CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

DATA PACKAGE

SEMI-VOLATILE ORGANICS

PROJECT NAME : MACKENNA PARCELS

LABELLA ASSOCIATES P.C.

300 State Street

Suite 201

Rochester, NY - 14614

Phone No: 585-454-6110

ORDER ID : O3645

ATTENTION : Andrew T. Benkleman

Laboratory Certification ID # 20012

Table Of Contents for O3645

1) SEMI-VOLATILE DATA 2
2) Signature Page 4
3) Case Narrative 5
4) Qualifier Page 8
5) Conformance/Non Conformance 9
6) QA Checklist 13
7) Chronicle 14
8) Hit Summary 15
9) QC Data Summary For SVOCMS Group1 19
- 9.1) Deuterated Monitoring Compound Summary 20
- 9.2) MS/MSD Summary 23
- 9.3) LCS/LCSD Summary 27
- 9.4) Method Blank Summary 33
- 9.5) GS/MS Tune Summary 35
- 9.6) Internal Standard Area and RT Summary 47

10) Sample Data 59
- 10.1) SB-02-(3-5) 60
- 10.2) SB-04-(1-5) 78
- 10.3) SB-07-(1-3) 101
- 10.4) SB-08-(0.5-2.0) 118
- 10.5) SB-09-(2.0-4.0) 147
- 10.6) SB-10-(0.5-2.0) 163
- 10.7) SB-10-(0.5-2.0)DL 211
- 10.8) DUP 228
- 10.9) RINSATE-BLANK 243

11) Calibration Data Summary 258
- 11.1) Initial Calibration Data 259
  - 11.1.1) BF062623 259
  - 11.1.2) BF072423 670
  - 11.1.3) BF080123 1079
  - 11.1.4) BG072823 1494
  - 11.1.5) BM072823 1904
  - 11.1.6) BP072723 2315
- 11.2) Continued Calibration Data 2727
  - 11.2.1) BF134355.D 2727

Table Of Contents for O3645

11.2.2) BF134518.D 2784
11.2.3) BF134547.D 2841
11.2.4) BG058569.D 2898
11.2.5) BM041169.D 2955
11.2.6) BP016411.D 3012
12) QC Sample Data 3069
12.1) Tune Raw Data 3070
12.2) Method Blank Data 3118
12.3) LCS Data 3151
12.4) LCSD Data 3255
12.5) MS Data 3307
12.6) MSD Data 3359
13) Manual Integration 3411
14) Analytical Runlogs 3425
15) Percent Solid 3459
16) Extraction Logs 3475
16.1) PB154218.pdf 3475
16.2) PB154218IC.pdf 3477
16.3) PB154258.pdf 3479
16.4) PB154258IC.pdf 3481
17) Standard Prep Logs 3482
18) Shipping Document 3636
18.1) Chain Of Custody 3637
18.2) ROC 3638
18.3) Lab Certificate 3640
18.4) Internal COC 3641

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Cover Page

Order ID : O3645

Project ID : Mackenna Parcels

Client : LaBella Associates P.C.

Lab Sample Number	Client Sample Number
O3645-01	SB-02-(3-5)
O3645-02	SB-04-(1-5)
O3645-03	SB-07-(1-3)
O3645-04	SB-08-(0.5-2.0)
O3645-05	SB-09-(2.0-4.0)
O3645-06	SB-10-(0.5-2.0)
O3645-07	DUP
O3645-08	RINSATE-BLANK
O3645-09	SB-04-(1-5)MS
O3645-10	SB-04-(1-5)MSD

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

Signature : _____ Date: 8/3/2023

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

CASE NARRATIVE

LaBella Associates P.C.
Project Name: Mackenna Parcels
Project # N/A
Chemtech Project # O3645
Test Name: SVOCMS Group1

A. Number of Samples and Date of Receipt:
9 Solid samples were received on 07/17/2023.
1 Water sample was received on 07/17/2023.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Mercury, Metals ICP-RCRA, METALS RCRA, PCB Group1, SVOCMS Group1 and VOCMS Group1. This data package contains results for SVOCMS Group1.

C. Analytical Techniques:
The samples were analyzed on instrument BNA_F using GC Column DB-UI 8270D which is 20 meters, 0.18 mm ID, 0.36 um dfThe samples were analyzed on instrument BNA_G using GC Column ZB-SemiVolatiles Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-GGAThe samples were analyzed on instrument BNA_M using GC Column ZB-SemiVolatiles Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-GGAThe samples were analyzed on instrument BNA_P using GC Column ZB-SemiVolatiles Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-GGAThe analysis of SVOCMS Group1 was based on method 8270E and extraction was done based on method 3510.

D. QA/ QC Samples:
The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria except for SB-10-(0.5-2.0)DL [2-Fluorobiphenyl - 106%], RINSATE-BLANK [Nitrobenzene-d5 - 142%] as per method one surrogate is allowed to fail therefore no corrective action taken.

The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.
The MS recoveries met the requirements for all compounds .
The MSD recoveries met the acceptable requirements .
The RPD met criteria .

The Blank Spike for {PB154218BS} with File ID: BP016413.D met requirements for all samples except for 2,2-oxybis(1-Chloropropane)[106%], 4-Nitrophenol[120%], Butylbenzylphthalate[108%] and Hexachloroethane[106%] but no positive hits in associated sample therefore no corrective action taken.

The Blank Spike Duplicate for {PB154218BSD} with File ID: BP016414.D met requirements for all samples except for 2,2-oxybis(1-Chloropropane)[104%], 4-Nitrophenol[120%] and Butylbenzylphthalate[108%] but no positive hits in associated sample therefore no corrective action taken.

The Blank analysis did not indicate the presence of lab contamination.

The % RSD is greater than 15% in the Initial Calibration method (Method 8270-BF062623.M) for 2,4-Dinitrophenol,this compound is passing on Linear Regression and Benzaldehyde, this compound is passing on Quadratic regression.

The % RSD is greater than 15% in the Initial Calibration method (Method 8270-BF072423.M) for 2,4-Dinitrophenol,this compound is passing on Linear Regression and Hexachlorocyclopentadiene, this compound is passing on Quadratic regression.

The % RSD is greater than 20% in the Initial Calibration method (Method 8270-BF080123.M) for 2-Nitrophenol,2-Nitroaniline, 2,6-Dinitrotoluene, 2,4-Dinitrotoluene ,4,6-Dinitro-2-methylphenol, these compounds are passing on Linear Regression and Benzaldehyde, 2,4-Dinitrophenol , these compounds are passing on Quadratic regression.

The % RSD is greater than 15% in the Initial Calibration method (Method 8270-BG072823.M) for Hexachlorocyclopentadiene, 2,4-Dinitrophenol, 4-Nitrophenol, these compounds are passing on Linear Regression.

The % RSD is greater than 15% in the Initial Calibration method (Method 8270-BM72823.M) for 3-Nitroaniline,4-Nitroaniline,2,4-Dinitrophenol, 2,4-Dinitrotoluene ,Bis(2-ethylhexyl)phthalate, these compounds are passing on Linear Regression.

The % RSD is greater than 15% in the Initial Calibration method (Method 8270-BP072723.M) for 2-Nitrophenol,2,4-Dinitrophenol, 4,6-Dinitro-2-methylphenol, these compounds are passing on Linear Regression and Benzaldehyde, this compound is passing on Quadratic regression.

The Continuous Calibration File ID BF134355.D met the requirements except for 2,2-oxybis(1-Chloropropane) is failing marginally low therefore no corrective action taken.

The Continuous Calibration File ID BG058569.D met the requirements except for 4-Nitroaniline but no positive hits in associated samples therefore no corrective action taken.

The Continuous Calibration File ID BP016411.D met the requirements except for Benzaldehyde but associated QC within limits therefore no corrective action taken.

The Tuning criteria met requirements.

Sample SB-10-(0.5-2.0) was diluted due to high concentration.

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

E. Additional Comments:
The Form 6 is not included in the data package because the Initial Calibration was performed using 8 points.

The soil samples results are based on a dry weight basis.

The temperature of the samples at the time of receipt was 24.3°C.

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

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

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

Signature_____

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 Tel. 908-789-8900 Fax: 908-789-8922

DATA REPORTING QUALIFIERS- ORGANIC

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

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

CHEMTECH 284 Sheffield Street, Mountainside New Jersey 07092
NEW JERSEY LAB ID#: 20012: NEW YORK LAB ID#: 11376

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

CHEMTECH PROJECT NUMBER: O3645 MATRIX: /Water

METHOD: 8270E/3510

		NA	NO	YES
1.	Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)			✓
2.	GC/MS Tuning Specifications. DFTPP Meet Criteria. (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ)			✓
3.	GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series.			✓
4.	GC/MS Calibration - Initial Calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series.			✓
5.	GC/MS Calibration Requirements.			✓

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

(CONTINUED)

	NA	NO	YES

The % RSD is greater than 15% in the Initial Calibration method (Method 8270-BF062623.M) for 2,4-Dinitrophenol,this compound is passing on Linear Regression and Benzaldehyde, this compound is passing on Quadratic regression.

The % RSD is greater than 15% in the Initial Calibration method (Method 8270-BF072423.M) for 2,4-Dinitrophenol,this compound is passing on Linear Regression and Hexachlorocyclopentadiene, this compound is passing on Quadratic regression.

The % RSD is greater than 20% in the Initial Calibration method (Method 8270-BF080123.M) for 2-Nitrophenol,2-Nitroaniline, 2,6-Dinitrotoluene, 2,4-Dinitrotoluene ,4,6-Dinitro-2-methylphenol, these compounds are passing on Linear Regression and Benzaldehyde, 2,4-Dinitrophenol , these compounds are passing on Quadratic regression.

The % RSD is greater than 15% in the Initial Calibration method (Method 8270-BG072823.M) for Hexachlorocyclopentadiene, 2,4-Dinitrophenol, 4-Nitrophenol, these compounds are passing on Linear Regression.

The % RSD is greater than 15% in the Initial Calibration method (Method 8270-BM72823.M) for 3-Nitroaniline,4-Nitroaniline,2,4-Dinitrophenol, 2,4-Dinitrotoluene ,Bis(2-ethylhexyl)phthalate, these compounds are passing on Linear Regression.

The % RSD is greater than 15% in the Initial Calibration method (Method 8270-BP072723.M) for 2-Nitrophenol,2,4-Dinitrophenol, 4,6-Dinitro-2-methylphenol, these compounds are passing on Linear Regression and Benzaldehyde, this compound is passing on Quadratic regression.

The Continuous Calibration File ID BF134355.D met the requirements except for 2,2-oxybis(1-Chloropropane) is failing marginally low therefore no corrective action taken.

The Continuous Calibration File ID BG058569.D met the requirements except for 4-Nitroaniline but no positive hits in associated samples therefore no corrective action taken.

The Continuous Calibration File ID BP016411.D met the requirements except for Benzaldehyde but associated QC within limits therefore no corrective action taken.

6.	Blank Contamination - If yes, list compounds and concentrations in each blank:			✓

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

(CONTINUED)

		NA	NO	YES
7.	Surrogate Recoveries Meet Criteria		✓	
	If not met, list those compounds and their recoveries which fall outside the acceptable ranges.			
	The Surrogate recoveries met the acceptable criteria except for SB-10-(0.5-2.0)DL [2-Fluorobiphenyl - 106%], RINSATE-BLANK [Nitrobenzene-d5 - 142%] as per method one surrogate is allowed to fail therefore no corrective action taken.			
8.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria		✓	
	If not met, list those compounds and their recoveries which fall outside the acceptable range.			
	The Blank Spike for {PB154218BS} with File ID: BP016413.D met requirements for all samples except for 2,2-oxybis(1-Chloropropane)[106%], 4-Nitrophenol[120%], Butylbenzylphthalate[108%] and Hexachloroethane[106%] but no positive hits in associated sample therefore no corrective action taken.			
	The Blank Spike Duplicate for {PB154218BSD} with File ID: BP016414.D met requirements for all samples except for 2,2-oxybis(1-Chloropropane)[104%], 4-Nitrophenol[120%] and Butylbenzylphthalate[108%] but no positive hits in associated sample therefore no corrective action taken.			
9.	Internal Standard Area/Retention Time Shift Meet Criteria		✓	
	Comments: The Internal Standards Areas met the acceptable requirements.			
10.	Extraction Holding Time Met			✓
	If not met, list number of days exceeded for each sample:			
11.	Analysis Holding Time Met			✓
	If not met, list number of days exceeded for each sample:			

ADDITIONAL COMMENTS:

Sample SB-10-(0.5-2.0) was diluted due to high concentration.

The Form 6 is not included in the data package because the Initial Calibration was performed using 8 points.

The soil samples results are based on a dry weight basis.

The temperature of the samples at the time of receipt was 24.3°C.

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

(CONTINUED)

NA NO YES

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

_____ _____

QA REVIEW Date

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: O3645

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

1st Level QA Review Signature: SOHIL JODHANI **Date:** 08/03/2023

2nd Level QA Review Signature: _____ **Date:** _____

CHEMTECH

284 Sheffield Street, Mountainside, New Jersey - 07092

Phone: (908) 789 8900 Fax: (908) 789 8922

LAB CHRONICLE

OrderID:	O3645	**OrderDate:**	7/17/2023 9:31:59 AM
Client:	LaBella Associates P.C.	**Project:**	Mackenna Parcels
Contact:	Andrew T. Benkleman	**Location:**	I11,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
O3645-01	**SB-02-(3-5)**	**SOIL**			**07/12/23**			**07/17/23**
			SVOCMS Group1	8270E		07/18/23	07/28/23	
O3645-02	**SB-04-(1-5)**	**SOIL**			**07/12/23**			**07/17/23**
			SVOCMS Group1	8270E		07/18/23	08/01/23	
O3645-03	**SB-07-(1-3)**	**SOIL**			**07/13/23**			**07/17/23**
			SVOCMS Group1	8270E		07/18/23	07/29/23	
O3645-04	**SB-08-(0.5-2.0)**	**SOIL**			**07/13/23**			**07/17/23**
			SVOCMS Group1	8270E		07/18/23	08/01/23	
O3645-05	**SB-09-(2.0-4.0)**	**SOIL**			**07/13/23**			**07/17/23**
			SVOCMS Group1	8270E		07/18/23	08/02/23	
O3645-06	**SB-10-(0.5-2.0)**	**SOIL**			**07/13/23**			**07/17/23**
			SVOCMS Group1	8270E		07/18/23	08/02/23	
O3645-06DL	**SB-10-(0.5-2.0)DL**	**SOIL**			**07/13/23**			**07/17/23**
			SVOCMS Group1	8270E		07/18/23	08/02/23	
O3645-07	**DUP**	**SOIL**			**07/12/23**			**07/17/23**
			SVOCMS Group1	8270E		07/18/23	08/02/23	
O3645-08	**RINSATE-BLANK**	**Water**			**07/12/23**			**07/17/23**
			SVOCMS Group1	8270E		07/17/23	07/28/23	

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Hit Summary Sheet
SW-846

SDG No.: O3645

Client: LaBella Associates P.C.

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Client ID : SB-02-(3-5)									
O3645-01	SB-02-(3-5)	SOIL	Dimethylphthalate		570.000		100	200	ug/Kg
			Total Svoc :		**570.00**				
O3645-01	SB-02-(3-5)	SOIL	Butane, 2-methoxy-2-methyl-	*	810.000	J	0	0	ug/Kg
O3645-01	SB-02-(3-5)	SOIL	n-Hexadecanoic acid	*	330.000	J	0	0	ug/Kg
O3645-01	SB-02-(3-5)	SOIL	Pentadecafluorooctanoic acid, oct	*	360.000	J	0	0	ug/Kg
			Total Tics :		**1,500.00**				
			Total Concentration:		**2,070.00**				
Client ID : SB-04-(1-5)									
O3645-02	SB-04-(1-5)	SOIL	Dimethylphthalate		150.000	J	97.1	190	ug/Kg
O3645-02	SB-04-(1-5)	SOIL	Phenanthrene		120.000	J	100	190	ug/Kg
O3645-02	SB-04-(1-5)	SOIL	Fluoranthene		150.000	J	100	190	ug/Kg
O3645-02	SB-04-(1-5)	SOIL	Pyrene		140.000	J	91.4	190	ug/Kg
O3645-02	SB-04-(1-5)	SOIL	Benzo(b)fluoranthene		130.000	J	87.7	190	ug/Kg
			Total Svoc :		**690.00**				
O3645-02	SB-04-(1-5)	SOIL	2,4,7,9-Tetramethyl-5-decyn-4,7-c	*	130.000	J	0	0	ug/Kg
O3645-02	SB-04-(1-5)	SOIL	5-Eicosene, (E)-	*	230.000	J	0	0	ug/Kg
O3645-02	SB-04-(1-5)	SOIL	Benzo[e]pyrene	*	75.400	J	0	0	ug/Kg
O3645-02	SB-04-(1-5)	SOIL	n-Hexadecanoic acid	*	200.000	J	0	0	ug/Kg
O3645-02	SB-04-(1-5)	SOIL	Octadecanoic acid	*	75.400	J	0	0	ug/Kg
			Total Tics :		**710.80**				
			Total Concentration:		**1,400.80**				
Client ID : SB-07-(1-3)									
O3645-03	SB-07-(1-3)	SOIL	1-Heneicosanol	*	190.000	J	0	0	ug/Kg
O3645-03	SB-07-(1-3)	SOIL	Butane, 2-methoxy-2-methyl-	*	410.000	J	0	0	ug/Kg
O3645-03	SB-07-(1-3)	SOIL	n-Hexadecanoic acid	*	200.000	J	0	0	ug/Kg
			Total Tics :		**800.00**				
			Total Concentration:		**800.00**				
Client ID : SB-08-(0.5-2.0)									
O3645-04	SB-08-(0.5-2.0)	SOIL	Dimethylphthalate		150.000	J	120	230	ug/Kg
O3645-04	SB-08-(0.5-2.0)	SOIL	Phenanthrene		450.000		120	230	ug/Kg
O3645-04	SB-08-(0.5-2.0)	SOIL	Fluoranthene		660.000		130	230	ug/Kg
O3645-04	SB-08-(0.5-2.0)	SOIL	Pyrene		610.000		110	230	ug/Kg
O3645-04	SB-08-(0.5-2.0)	SOIL	Benzo(a)anthracene		360.000		110	230	ug/Kg
O3645-04	SB-08-(0.5-2.0)	SOIL	Chrysene		370.000		120	230	ug/Kg
O3645-04	SB-08-(0.5-2.0)	SOIL	Benzo(b)fluoranthene		500.000		110	230	ug/Kg
O3645-04	SB-08-(0.5-2.0)	SOIL	Benzo(k)fluoranthene		150.000	J	120	230	ug/Kg
O3645-04	SB-08-(0.5-2.0)	SOIL	Benzo(a)pyrene		350.000		130	230	ug/Kg
O3645-04	SB-08-(0.5-2.0)	SOIL	Indeno(1,2,3-cd)pyrene		190.000	J	140	230	ug/Kg

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Hit Summary Sheet
SW-846

SDG No.: O3645

Client: LaBella Associates P.C.

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
O3645-04	SB-08-(0.5-2.0)	SOIL	Benzo(g,h,i)perylene		210.000	J	120	230	ug/Kg
			Total Svoc :		**4,000.00**				
O3645-04	SB-08-(0.5-2.0)	SOIL	Benzaldehyde, 3,5-dichloro-2-hyd	*	120.000	J	0	0	ug/Kg
O3645-04	SB-08-(0.5-2.0)	SOIL	Dodecane, 2,7,10-trimethyl-	*	91.100	J	0	0	ug/Kg
O3645-04	SB-08-(0.5-2.0)	SOIL	Benzo[e]pyrene	*	100.000	J	0	0	ug/Kg
O3645-04	SB-08-(0.5-2.0)	SOIL	n-Hexadecanoic acid	*	310.000	J	0	0	ug/Kg
O3645-04	SB-08-(0.5-2.0)	SOIL	Perylene	*	270.000	J	0	0	ug/Kg
O3645-04	SB-08-(0.5-2.0)	SOIL	Tetracosyl heptafluorobutyrate	*	140.000	J	0	0	ug/Kg
			Total Tics :		**1,031.10**				
			Total Concentration:		**5,031.10**				
Client ID :	**SB-09-(2.0-4.0)**								
O3645-05	SB-09-(2.0-4.0)	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	110.000	AB	0	0	ug/Kg
O3645-05	SB-09-(2.0-4.0)	SOIL	n-Hexadecanoic acid	*	110.000	J	0	0	ug/Kg
			Total Tics :		**220.00**				
			Total Concentration:		**220.00**				
Client ID :	**SB-10-(0.5-2.0)**								
O3645-06	SB-10-(0.5-2.0)	SOIL	Naphthalene		270.000		97.6	200	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	2-Methylnaphthalene		200.000		110	200	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Dimethylphthalate		130.000	J	110	200	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Acenaphthylene		120.000	J	110	200	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Acenaphthene		260.000		96.2	200	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Dibenzofuran		220.000		92.2	200	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Fluorene		290.000		100	200	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Phenanthrene		2,900.000		110	200	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Anthracene		790.000		120	200	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Carbazole		430.000		100	200	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Di-n-butylphthalate		120.000	J	120	200	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Fluoranthene		3,400.000	E	110	200	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Pyrene		3,100.000		100	200	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Benzo(a)anthracene		1,800.000		100	200	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Chrysene		1,900.000		100	200	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Benzo(b)fluoranthene		2,400.000		96.2	200	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Benzo(k)fluoranthene		880.000		110	200	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Benzo(a)pyrene		1,700.000		110	200	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Indeno(1,2,3-cd)pyrene		1,000.000		130	200	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Dibenzo(a,h)anthracene		320.000		120	200	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Benzo(g,h,i)perylene		1,200.000		110	200	ug/Kg
			Total Svoc :		**23,430.00**				
O3645-06	SB-10-(0.5-2.0)	SOIL	Anthracene, 2-methyl-	*	330.000	J	0	0	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Benzo[e]pyrene	*	2,000.000	J	0	0	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Dehydroabietic acid	*	260.000	J	0	0	ug/Kg

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Hit Summary Sheet
SW-846

SDG No.: O3645

Client: LaBella Associates P.C.

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
O3645-06	SB-10-(0.5-2.0)	SOIL	Eicosane	*	610.000	J	0	0	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Eicosane, 10-methyl-	*	390.000	J	0	0	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Heneicosane	*	950.000	J	0	0	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Heptadecane	*	2,000.000	J	0	0	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Hexacosane	*	510.000	J	0	0	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Hexadecane	*	440.000	J	0	0	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Hexathiane	*	310.000	J	0	0	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Naphthalene, 2-phenyl-	*	440.000	J	0	0	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Nonadecane	*	500.000	J	0	0	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Octadecanoic acid	*	440.000	J	0	0	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Pentacosane	*	580.000	J	0	0	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Perylene	*	2,400.000	J	0	0	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Sulfurous acid, butyl nonyl ester	*	290.000	J	0	0	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Tetracosane	*	500.000	J	0	0	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Tetradecane	*	440.000	J	0	0	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Triacontane	*	330.000	J	0	0	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	Tridecane, 6-propyl-	*	560.000	J	0	0	ug/Kg
O3645-06	SB-10-(0.5-2.0)	SOIL	1-Methylnaphthalene	*	150.000	J	110	200	ug/Kg
			Total Tics :		**14,430.00**				
			Total Concentration:		**37,860.00**				
Client ID :	**SB-10-(0.5-2.0)DL**								
O3645-06DL	SB-10-(0.5-2.0)DL	SOIL	Phenanthrene		3,500.000	D	560	1000	ug/Kg
O3645-06DL	SB-10-(0.5-2.0)DL	SOIL	Anthracene		810.000	JD	610	1000	ug/Kg
O3645-06DL	SB-10-(0.5-2.0)DL	SOIL	Fluoranthene		4,400.000	D	570	1000	ug/Kg
O3645-06DL	SB-10-(0.5-2.0)DL	SOIL	Pyrene		3,100.000	D	500	1000	ug/Kg
O3645-06DL	SB-10-(0.5-2.0)DL	SOIL	Benzo(a)anthracene		2,000.000	D	500	1000	ug/Kg
O3645-06DL	SB-10-(0.5-2.0)DL	SOIL	Chrysene		1,900.000	D	520	1000	ug/Kg
O3645-06DL	SB-10-(0.5-2.0)DL	SOIL	Benzo(b)fluoranthene		2,700.000	D	480	1000	ug/Kg
O3645-06DL	SB-10-(0.5-2.0)DL	SOIL	Benzo(k)fluoranthene		820.000	JD	530	1000	ug/Kg
O3645-06DL	SB-10-(0.5-2.0)DL	SOIL	Benzo(a)pyrene		1,800.000	D	570	1000	ug/Kg
O3645-06DL	SB-10-(0.5-2.0)DL	SOIL	Indeno(1,2,3-cd)pyrene		970.000	JD	640	1000	ug/Kg
O3645-06DL	SB-10-(0.5-2.0)DL	SOIL	Benzo(g,h,i)perylene		1,100.000	D	550	1000	ug/Kg
			Total Svoc :		**23,100.00**				
			Total Concentration:		**23,100.00**				
Client ID :	**DUP**								
O3645-07	DUP	SOIL	n-Hexadecanoic acid	*	130.000	J	0	0	ug/Kg
			Total Tics :		**130.00**				
			Total Concentration:		**130.00**				
Client ID :	**RINSATE-BLANK**								
O3645-08	RINSATE-BLANK	WATER	2-Pentanone, 4-hydroxy-4-methyl	*	3.100	AB	0	0	ug/L
			Total Tics :		**3.10**				

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Hit Summary Sheet
SW-846

SDG No.: O3645

Client: LaBella Associates P.C.

Sample ID	Client ID	Parameter	Concentration	C	MDL	RDL	Units
		Total Concentration:	**3.10**				

QC SUMMARY

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Surrogate Summary

SW-846

SDG No.: O3645

Client: LaBella Associates P.C.

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
O3645-08	RINSATE-BLANK	2-Fluorophenol	150	54.5	36		10	139
		Phenol-d6	150	33.2	22		10	134
		Nitrobenzene-d5	100	142	142	*	49	133
		2-Fluorobiphenyl	100	93.9	94		52	132
		2,4,6-Tribromophenol	150	98.3	66		45	141
		Terphenyl-d14	100	98.8	99		45	142
PB154218BL	PB154218BL	2-Fluorophenol	150	143	96		10	139
		Phenol-d6	150	135	90		10	134
		Nitrobenzene-d5	100	92.0	92		49	133
		2-Fluorobiphenyl	100	89.5	89		52	132
		2,4,6-Tribromophenol	150	110	74		45	141
		Terphenyl-d14	100	102	102		45	142
PB154218BS	PB154218BS	2-Fluorophenol	150	175	116		10	139
		Phenol-d6	150	166	111		10	134
		Nitrobenzene-d5	100	107	107		49	133
		2-Fluorobiphenyl	100	101	101		52	132
		2,4,6-Tribromophenol	150	135	90		45	141
		Terphenyl-d14	100	113	113		45	142
PB154218BSD	PB154218BSD	2-Fluorophenol	150	175	117		10	139
		Phenol-d6	150	165	110		10	134
		Nitrobenzene-d5	100	107	107		49	133
		2-Fluorobiphenyl	100	101	101		52	132
		2,4,6-Tribromophenol	150	136	91		45	141
		Terphenyl-d14	100	112	112		45	142

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Surrogate Summary

SW-846

SDG No.: O3645

Client: LaBella Associates P.C.

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
O3645-01	SB-02-(3-5)	2-Fluorophenol	150	127	85		18	112
		Phenol-d6	150	125	83		21	104
		Nitrobenzene-d5	100	77.7	78		27	109
		2-Fluorobiphenyl	100	86.6	87		30	103
		2,4,6-Tribromophenol	150	99.7	66		10	121
		Terphenyl-d14	100	80.0	80		21	107
O3645-02	SB-04-(1-5)	2-Fluorophenol	150	98.7	66		18	112
		Phenol-d6	150	101	67		21	104
		Nitrobenzene-d5	100	77.6	78		27	109
		2-Fluorobiphenyl	100	72.3	72		30	103
		2,4,6-Tribromophenol	150	110	73		10	121
		Terphenyl-d14	100	80.3	80		21	107
O3645-03	SB-07-(1-3)	2-Fluorophenol	150	79.7	53		18	112
		Phenol-d6	150	77.7	52		21	104
		Nitrobenzene-d5	100	52.1	52		27	109
		2-Fluorobiphenyl	100	53.1	53		30	103
		2,4,6-Tribromophenol	150	66.0	44		10	121
		Terphenyl-d14	100	57.2	57		21	107
O3645-04	SB-08-(0.5-2.0)	2-Fluorophenol	150	94.6	63		18	112
		Phenol-d6	150	94.3	63		21	104
		Nitrobenzene-d5	100	72.6	73		27	109
		2-Fluorobiphenyl	100	65.8	66		30	103
		2,4,6-Tribromophenol	150	96.0	64		10	121
		Terphenyl-d14	100	65.2	65		21	107
O3645-05	SB-09-(2.0-4.0)	2-Fluorophenol	150	112	74		18	112
		Phenol-d6	150	111	74		15	107
		Nitrobenzene-d5	100	67.6	68		18	107
		2-Fluorobiphenyl	100	67.9	68		20	109
		2,4,6-Tribromophenol	150	93.4	62		10	110
		Terphenyl-d14	100	73.5	74		14	112
O3645-06	SB-10-(0.5-2.0)	2-Fluorophenol	150	104	70		18	112
		Phenol-d6	150	103	69		21	104
		Nitrobenzene-d5	100	87.4	87		27	109
		2-Fluorobiphenyl	100	86.6	87		30	103
		2,4,6-Tribromophenol	150	106	70		10	121
		Terphenyl-d14	100	86.5	86		21	107
O3645-06DL	SB-10-(0.5-2.0)DL	2-Fluorophenol	150	119	79		18	112
		Phenol-d6	150	119	79		21	104
		Nitrobenzene-d5	100	91.3	91		27	109
		2-Fluorobiphenyl	100	106	106	*	30	103
		2,4,6-Tribromophenol	150	104	69		10	121
		Terphenyl-d14	100	84.8	85		21	107
O3645-07	DUP	2-Fluorophenol	150	120	80		18	112
		Phenol-d6	150	118	78		15	107
		Nitrobenzene-d5	100	72.1	72		18	107
		2-Fluorobiphenyl	100	70.9	71		20	109
		2,4,6-Tribromophenol	150	97.4	65		10	110
		Terphenyl-d14	100	76.5	76		14	112
O3645-09MS	SB-04-(1-5)MS	2-Fluorophenol	150	98.9	66		18	112
		Phenol-d6	150	101	68		21	104
		Nitrobenzene-d5	100	64.1	64		27	109
		2-Fluorobiphenyl	100	63.7	64		30	103

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Surrogate Summary

SW-846

SDG No.: O3645

Client: LaBella Associates P.C.

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
O3645-09MS	SB-04-(1-5)MS	2,4,6-Tribromophenol	150	104	70		10	121
		Terphenyl-d14	100	70.4	70		21	107
O3645-10MSD	SB-04-(1-5)MSD	2-Fluorophenol	150	98.6	66		18	112
		Phenol-d6	150	101	68		21	104
		Nitrobenzene-d5	100	65.1	65		27	109
		2-Fluorobiphenyl	100	65.3	65		30	103
		2,4,6-Tribromophenol	150	106	71		10	121
		Terphenyl-d14	100	71.1	71		21	107
PB154258BL	PB154258BL	2-Fluorophenol	150	163	109		18	112
		Phenol-d6	150	128	85		21	104
		Nitrobenzene-d5	100	92.1	92		27	109
		2-Fluorobiphenyl	100	89.6	90		30	103
		2,4,6-Tribromophenol	150	149	100		10	121
		Terphenyl-d14	100	84.1	84		21	107
PB154258BS	PB154258BS	2-Fluorophenol	150	120	80		18	112
		Phenol-d6	150	116	77		21	104
		Nitrobenzene-d5	100	80.7	81		27	109
		2-Fluorobiphenyl	100	83.8	84		30	103
		2,4,6-Tribromophenol	150	127	85		10	121
		Terphenyl-d14	100	80.1	80		21	107

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: O3645

Client: LaBella Associates P.C.

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: O3645-09MS		**Client Sample ID: SB-04-(1-5)MS**						**DataFile: BM041174.D**			
Benzaldehyde	1800	0	1700	ug/Kg	94				26	163	
Phenol	1800	0	1800	ug/Kg	100				67	126	
bis(2-Chloroethyl)ether	1800	0	1700	ug/Kg	94				74	116	
2-Chlorophenol	1800	0	1700	ug/Kg	94				61	138	
2-Methylphenol	1800	0	1600	ug/Kg	89				66	122	
2,2-oxybis(1-Chloropropane)	1800	0	1700	ug/Kg	94				52	115	
Acetophenone	1800	0	1600	ug/Kg	89				75	111	
3+4-Methylphenols	1800	0	1700	ug/Kg	94				53	132	
N-Nitroso-di-n-propylamine	1800	0	1700	ug/Kg	94				59	119	
Hexachloroethane	1800	0	1700	ug/Kg	94				65	117	
Nitrobenzene	1800	0	1600	ug/Kg	89				70	119	
Isophorone	1800	0	1600	ug/Kg	89				76	122	
2-Nitrophenol	1800	0	1700	ug/Kg	94				54	145	
2,4-Dimethylphenol	1800	0	1700	ug/Kg	94				83	144	
bis(2-Chloroethoxy)methane	1800	0	1600	ug/Kg	89				68	112	
2,4-Dichlorophenol	1800	0	1700	ug/Kg	94				72	118	
Naphthalene	1800	0	1600	ug/Kg	89				72	110	
4-Chloroaniline	1800	0	1400	ug/Kg	78				10	100	
Hexachlorobutadiene	1800	0	1600	ug/Kg	89				66	114	
Caprolactam	1800	0	1800	ug/Kg	100				51	134	
4-Chloro-3-methylphenol	1800	0	1700	ug/Kg	94				57	132	
2-Methylnaphthalene	1800	0	1600	ug/Kg	89				59	123	
Hexachlorocyclopentadiene	3600	0	3400	ug/Kg	94				10	175	
2,4,6-Trichlorophenol	1800	0	1700	ug/Kg	94				72	117	
2,4,5-Trichlorophenol	1800	0	1600	ug/Kg	89				72	117	
1,1-Biphenyl	1800	0	1600	ug/Kg	89				75	113	
2-Chloronaphthalene	1800	0	1700	ug/Kg	94				67	118	
2-Nitroaniline	1800	0	1700	ug/Kg	94				69	127	
Dimethylphthalate	1800	150	1800	ug/Kg	92				70	113	
Acenaphthylene	1800	0	1600	ug/Kg	89				79	118	
2,6-Dinitrotoluene	1800	0	1700	ug/Kg	94				70	125	
3-Nitroaniline	1800	0	1500	ug/Kg	83				20	111	
Acenaphthene	1800	0	1600	ug/Kg	89				70	121	
2,4-Dinitrophenol	3600	0	3000	ug/Kg	83				16	160	
4-Nitrophenol	3600	0	4100	ug/Kg	114				45	133	
Dibenzofuran	1800	0	1600	ug/Kg	89				72	110	
2,4-Dinitrotoluene	1800	0	1600	ug/Kg	89				55	128	
Diethylphthalate	1800	0	1700	ug/Kg	94				70	112	
4-Chlorophenyl-phenylether	1800	0	1600	ug/Kg	89				71	108	
Fluorene	1800	0	1700	ug/Kg	94				68	116	
4-Nitroaniline	1800	0	1500	ug/Kg	83				55	120	
4,6-Dinitro-2-methylphenol	1800	0	1500	ug/Kg	83				32	145	
N-Nitrosodiphenylamine	1800	0	1600	ug/Kg	89				73	118	
4-Bromophenyl-phenylether	1800	0	1600	ug/Kg	89				65	121	
Hexachlorobenzene	1800	0	1700	ug/Kg	94				67	118	
Atrazine	1800	0	2100	ug/Kg	117				79	127	
Pentachlorophenol	3600	0	3300	ug/Kg	92				47	128	

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: O3645

Client: LaBella Associates P.C.

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Phenanthrene	1800	120	1700	ug/Kg	88				72	113	
Anthracene	1800	0	1700	ug/Kg	94				62	124	
Carbazole	1800	0	1700	ug/Kg	94				59	119	
Di-n-butylphthalate	1800	0	1800	ug/Kg	100				69	118	
Fluoranthene	1800	150	1900	ug/Kg	97				59	125	
Pyrene	1800	140	1800	ug/Kg	93				52	128	
Butylbenzylphthalate	1800	0	1900	ug/Kg	106				64	126	
3,3-Dichlorobenzidine	1800	0	1900	ug/Kg	106				10	164	
Benzo(a)anthracene	1800	0	1800	ug/Kg	100				71	114	
Chrysene	1800	0	1700	ug/Kg	94				57	121	
bis(2-Ethylhexyl)phthalate	1800	0	1800	ug/Kg	100				66	127	
Di-n-octyl phthalate	1800	0	1900	ug/Kg	106				71	126	
Benzo(b)fluoranthene	1800	130	1900	ug/Kg	99				67	121	
Benzo(k)fluoranthene	1800	0	1700	ug/Kg	94				74	114	
Benzo(a)pyrene	1800	0	1600	ug/Kg	89				70	142	
Indeno(1,2,3-cd)pyrene	1800	0	1700	ug/Kg	94				61	125	
Dibenz(a,h)anthracene	1800	0	1700	ug/Kg	94				67	130	
Benzo(g,h,i)perylene	1800	0	1700	ug/Kg	94				53	140	
1,2,4,5-Tetrachlorobenzene	1800	0	1600	ug/Kg	89				69	124	
1,4-Dioxane	1800	0	1300	ug/Kg	72				46	112	
2,3,4,6-Tetrachlorophenol	1800	0	1700	ug/Kg	94				56	133	

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: O3645

Client: LaBella Associates P.C.

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Lab Sample ID: O3645-10MSD		**Client Sample ID: SB-04-(1-5)MSD**						**DataFile: BM041175.D**			
Benzaldehyde	1800	0	1700	ug/Kg	94		0		26	163	20
Phenol	1800	0	1800	ug/Kg	100		0		67	126	20
bis(2-Chloroethyl)ether	1800	0	1700	ug/Kg	94		0		74	116	20
2-Chlorophenol	1800	0	1700	ug/Kg	94		0		61	138	20
2-Methylphenol	1800	0	1700	ug/Kg	94		5		66	122	20
2,2-oxybis(1-Chloropropane)	1800	0	1700	ug/Kg	94		0		52	115	20
Acetophenone	1800	0	1600	ug/Kg	89		0		75	111	20
3+4-Methylphenols	1800	0	1700	ug/Kg	94		0		53	132	20
N-Nitroso-di-n-propylamine	1800	0	1700	ug/Kg	94		0		59	119	20
Hexachloroethane	1800	0	1700	ug/Kg	94		0		65	117	20
Nitrobenzene	1800	0	1600	ug/Kg	89		0		70	119	20
Isophorone	1800	0	1700	ug/Kg	94		5		76	122	20
2-Nitrophenol	1800	0	1800	ug/Kg	100		6		54	145	20
2,4-Dimethylphenol	1800	0	1700	ug/Kg	94		0		83	144	20
bis(2-Chloroethoxy)methane	1800	0	1600	ug/Kg	89		0		68	112	20
2,4-Dichlorophenol	1800	0	1800	ug/Kg	100		6		72	118	20
Naphthalene	1800	0	1600	ug/Kg	89		0		72	110	20
4-Chloroaniline	1800	0	1400	ug/Kg	78		0		10	100	20
Hexachlorobutadiene	1800	0	1600	ug/Kg	89		0		66	114	20
Caprolactam	1800	0	1800	ug/Kg	100		0		51	134	20
4-Chloro-3-methylphenol	1800	0	1800	ug/Kg	100		6		57	132	20
2-Methylnaphthalene	1800	0	1600	ug/Kg	89		0		59	123	20
Hexachlorocyclopentadiene	3600	0	3400	ug/Kg	94		0		10	175	20
2,4,6-Trichlorophenol	1800	0	1800	ug/Kg	100		6		72	117	20
2,4,5-Trichlorophenol	1800	0	1600	ug/Kg	89		0		72	117	20
1,1-Biphenyl	1800	0	1600	ug/Kg	89		0		75	113	20
2-Chloronaphthalene	1800	0	1700	ug/Kg	94		0		67	118	20
2-Nitroaniline	1800	0	1800	ug/Kg	100		6		69	127	20
Dimethylphthalate	1800	150	1800	ug/Kg	92		0		70	113	20
Acenaphthylene	1800	0	1700	ug/Kg	94		5		79	118	20
2,6-Dinitrotoluene	1800	0	1700	ug/Kg	94		0		70	125	20
3-Nitroaniline	1800	0	1500	ug/Kg	83		0		20	111	20
Acenaphthene	1800	0	1700	ug/Kg	94		5		70	121	20
2,4-Dinitrophenol	3600	0	2900	ug/Kg	81		2		16	160	20
4-Nitrophenol	3600	0	4100	ug/Kg	114		0		45	133	20
Dibenzofuran	1800	0	1600	ug/Kg	89		0		72	110	20
2,4-Dinitrotoluene	1800	0	1600	ug/Kg	89		0		55	128	20
Diethylphthalate	1800	0	1700	ug/Kg	94		0		70	112	20
4-Chlorophenyl-phenylether	1800	0	1700	ug/Kg	94		5		71	108	20
Fluorene	1800	0	1700	ug/Kg	94		0		68	116	20
4-Nitroaniline	1800	0	1600	ug/Kg	89		7		55	120	20
4,6-Dinitro-2-methylphenol	1800	0	1500	ug/Kg	83		0		32	145	20
N-Nitrosodiphenylamine	1800	0	1600	ug/Kg	89		0		73	118	20
4-Bromophenyl-phenylether	1800	0	1700	ug/Kg	94		5		65	121	20
Hexachlorobenzene	1800	0	1800	ug/Kg	100		6		67	118	20
Atrazine	1800	0	2200	ug/Kg	122		4		79	127	20
Pentachlorophenol	3600	0	3400	ug/Kg	94		2		47	128	20

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Matrix Spike/Matrix Spike Duplicate Summary
SW-846

SDG No.: O3645

Client: LaBella Associates P.C.

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Phenanthrene	1800	120	1800	ug/Kg	93		6		72	113	20
Anthracene	1800	0	1700	ug/Kg	94		0		62	124	20
Carbazole	1800	0	1800	ug/Kg	100		6		59	119	20
Di-n-butylphthalate	1800	0	1900	ug/Kg	106		6		69	118	20
Fluoranthene	1800	150	1900	ug/Kg	97		0		59	125	20
Pyrene	1800	140	1800	ug/Kg	93		0		52	128	20
Butylbenzylphthalate	1800	0	1900	ug/Kg	106		0		64	126	20
3,3-Dichlorobenzidine	1800	0	2000	ug/Kg	111		5		10	164	20
Benzo(a)anthracene	1800	0	1800	ug/Kg	100		0		71	114	20
Chrysene	1800	0	1700	ug/Kg	94		0		57	121	20
bis(2-Ethylhexyl)phthalate	1800	0	1800	ug/Kg	100		0		66	127	20
Di-n-octyl phthalate	1800	0	2000	ug/Kg	111		5		71	126	20
Benzo(b)fluoranthene	1800	130	1900	ug/Kg	98		1		67	121	20
Benzo(k)fluoranthene	1800	0	1700	ug/Kg	94		0		74	114	20
Benzo(a)pyrene	1800	0	1700	ug/Kg	94		5		70	142	20
Indeno(1,2,3-cd)pyrene	1800	0	1700	ug/Kg	94		0		61	125	20
Dibenz(a,h)anthracene	1800	0	1700	ug/Kg	94		0		67	130	20
Benzo(g,h,i)perylene	1800	0	1700	ug/Kg	94		0		53	140	20
1,2,4,5-Tetrachlorobenzene	1800	0	1700	ug/Kg	94		5		69	124	20
1,4-Dioxane	1800	0	1300	ug/Kg	72		0		46	112	20
2,3,4,6-Tetrachlorophenol	1800	0	1800	ug/Kg	100		6		56	133	20

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: O3645

Client: LaBella Associates P.C.

Analytical Method: 8270E **DataFile:** BF134357.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB154258BS	Benzaldehyde	1700	190	ug/Kg	11				10	109	
	Phenol	1700	1400	ug/Kg	82				62	112	
	bis(2-Chloroethyl)ether	1700	1500	ug/Kg	88				60	101	
	2-Chlorophenol	1700	1500	ug/Kg	88				65	112	
	2-Methylphenol	1700	1400	ug/Kg	82				61	108	
	2,2-oxybis(1-Chloropropane)	1700	1200	ug/Kg	71				51	100	
	Acetophenone	1700	1500	ug/Kg	88				55	104	
	3+4-Methylphenols	1700	1500	ug/Kg	88				58	111	
	N-Nitroso-di-n-propylamine	1700	1500	ug/Kg	88				63	95	
	Hexachloroethane	1700	1600	ug/Kg	94				59	102	
	Nitrobenzene	1700	1400	ug/Kg	82				57	101	
	Isophorone	1700	1400	ug/Kg	82				59	99	
	2-Nitrophenol	1700	1400	ug/Kg	82				61	111	
	2,4-Dimethylphenol	1700	1400	ug/Kg	82				67	119	
	bis(2-Chloroethoxy)methane	1700	1300	ug/Kg	76				53	105	
	2,4-Dichlorophenol	1700	1400	ug/Kg	82				62	107	
	Naphthalene	1700	1400	ug/Kg	82				62	100	
	4-Chloroaniline	1700	350	ug/Kg	21				16	100	
	Hexachlorobutadiene	1700	1600	ug/Kg	94				53	98	
	Caprolactam	1700	1400	ug/Kg	82				42	122	
	4-Chloro-3-methylphenol	1700	1400	ug/Kg	82				58	112	
	2-Methylnaphthalene	1700	1300	ug/Kg	76				60	104	
	Hexachlorocyclopentadiene	3300	2300	ug/Kg	70				45	134	
	2,4,6-Trichlorophenol	1700	1400	ug/Kg	82				59	102	
	2,4,5-Trichlorophenol	1700	1300	ug/Kg	76				61	98	
	1,1-Biphenyl	1700	1400	ug/Kg	82				57	103	
	2-Chloronaphthalene	1700	1400	ug/Kg	82				58	99	
	2-Nitroaniline	1700	1300	ug/Kg	76				53	105	
	Dimethylphthalate	1700	1400	ug/Kg	82				61	99	
	Acenaphthylene	1700	1300	ug/Kg	76				63	101	
	2,6-Dinitrotoluene	1700	1400	ug/Kg	82				61	104	
	3-Nitroaniline	1700	800	ug/Kg	47				28	100	
	Acenaphthene	1700	1400	ug/Kg	82				57	104	
	2,4-Dinitrophenol	3300	2700	ug/Kg	82				37	128	
	4-Nitrophenol	3300	2200	ug/Kg	67				48	119	
	Dibenzofuran	1700	1400	ug/Kg	82				63	99	
	2,4-Dinitrotoluene	1700	1400	ug/Kg	82				60	106	
	Diethylphthalate	1700	1400	ug/Kg	82				60	101	
	4-Chlorophenyl-phenylether	1700	1400	ug/Kg	82				58	98	
	Fluorene	1700	1400	ug/Kg	82				61	101	
	4-Nitroaniline	1700	1100	ug/Kg	65				47	102	
	4,6-Dinitro-2-methylphenol	1700	1600	ug/Kg	94				48	132	
	N-Nitrosodiphenylamine	1700	1400	ug/Kg	82				56	107	
	4-Bromophenyl-phenylether	1700	1500	ug/Kg	88				55	99	
	Hexachlorobenzene	1700	1600	ug/Kg	94				64	98	
	Atrazine	1700	970	ug/Kg	57				47	125	

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: O3645

Client: LaBella Associates P.C.

Analytical Method: 8270E **DataFile:** BF134357.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB154258BS	Pentachlorophenol	3300	2300	ug/Kg	70				67	105	
	Phenanthrene	1700	1400	ug/Kg	82				59	103	
	Anthracene	1700	1400	ug/Kg	82				61	105	
	Carbazole	1700	1500	ug/Kg	88				61	99	
	Di-n-butylphthalate	1700	1500	ug/Kg	88				58	104	
	Fluoranthene	1700	1500	ug/Kg	88				57	107	
	Pyrene	1700	1200	ug/Kg	71				59	103	
	Butylbenzylphthalate	1700	1400	ug/Kg	82				55	103	
	3,3-Dichlorobenzidine	1700	1000	ug/Kg	59				30	89	
	Benzo(a)anthracene	1700	1400	ug/Kg	82				60	102	
	Chrysene	1700	1400	ug/Kg	82				59	101	
	bis(2-Ethylhexyl)phthalate	1700	1600	ug/Kg	94				51	114	
	Di-n-octyl phthalate	1700	1600	ug/Kg	94				52	114	
	Benzo(b)fluoranthene	1700	1800	ug/Kg	106				62	109	
	Benzo(k)fluoranthene	1700	1600	ug/Kg	94				62	109	
	Benzo(a)pyrene	1700	1500	ug/Kg	88				63	103	
	Indeno(1,2,3-cd)pyrene	1700	1600	ug/Kg	94				63	101	
	Dibenz(a,h)anthracene	1700	1600	ug/Kg	94				61	112	
	Benzo(g,h,i)perylene	1700	1500	ug/Kg	88				57	116	
	1,2,4,5-Tetrachlorobenzene	1700	1500	ug/Kg	88				53	101	
	1,4-Dioxane	1700	1300	ug/Kg	76				50	96	
	2,3,4,6-Tetrachlorophenol	1700	1400	ug/Kg	82				59	108	

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: O3645

Client: LaBella Associates P.C.

Analytical Method: 8270E **DataFile:** BP016413.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB154218BS	Benzaldehyde	50	59.7	ug/L	119				21	131	
	Phenol	50	56.9	ug/L	114				66	118	
	bis(2-Chloroethyl)ether	50	50.5	ug/L	101				62	103	
	2-Chlorophenol	50	54.9	ug/L	110				70	117	
	2-Methylphenol	50	52.0	ug/L	104				69	109	
	2,2-oxybis(1-Chloropropane)	50	52.9	ug/L	106		*		52	103	
	Acetophenone	50	48.6	ug/L	97				60	104	
	3+4-Methylphenols	50	52.1	ug/L	104				67	106	
	N-Nitroso-di-n-propylamine	50	49.9	ug/L	100				57	107	
	Hexachloroethane	50	53.2	ug/L	106		*		60	105	
	Nitrobenzene	50	49.5	ug/L	99				58	106	
	Isophorone	50	47.8	ug/L	96				61	102	
	2-Nitrophenol	50	45.3	ug/L	91				70	115	
	2,4-Dimethylphenol	50	52.7	ug/L	105				67	130	
	bis(2-Chloroethoxy)methane	50	48.8	ug/L	98				58	109	
	2,4-Dichlorophenol	50	51.7	ug/L	103				66	115	
	Naphthalene	50	47.5	ug/L	95				64	107	
	4-Chloroaniline	50	31.3	ug/L	63				10	85	
	Hexachlorobutadiene	50	44.3	ug/L	89				56	102	
	Caprolactam	50	50.3	ug/L	101				47	129	
	4-Chloro-3-methylphenol	50	51.6	ug/L	103				65	114	
	2-Methylnaphthalene	50	45.5	ug/L	91				64	107	
	Hexachlorocyclopentadiene	100	120	ug/L	120				49	132	
	2,4,6-Trichlorophenol	50	50.3	ug/L	101				61	110	
	2,4,5-Trichlorophenol	50	46.4	ug/L	93				70	106	
	1,1-Biphenyl	50	47.6	ug/L	95				72	98	
	2-Chloronaphthalene	50	49.1	ug/L	98				59	106	
	2-Nitroaniline	50	52.6	ug/L	105				58	107	
	Dimethylphthalate	50	47.3	ug/L	95				64	103	
	Acenaphthylene	50	48.1	ug/L	96				65	108	
	2,6-Dinitrotoluene	50	49.4	ug/L	99				64	110	
	3-Nitroaniline	50	40.2	ug/L	80				28	100	
	Acenaphthene	50	48.1	ug/L	96				59	113	
	2,4-Dinitrophenol	100	93.2	ug/L	93				48	129	
	4-Nitrophenol	100	120	ug/L	120		*		54	119	
	Dibenzofuran	50	46.8	ug/L	94				65	106	
	2,4-Dinitrotoluene	50	52.3	ug/L	105				60	115	
	Diethylphthalate	50	48.0	ug/L	96				63	105	
	4-Chlorophenyl-phenylether	50	45.5	ug/L	91				61	104	
	Fluorene	50	47.6	ug/L	95				64	107	
	4-Nitroaniline	50	49.0	ug/L	98				57	103	
	4,6-Dinitro-2-methylphenol	50	48.5	ug/L	97				62	132	
	N-Nitrosodiphenylamine	50	49.8	ug/L	100				61	109	
	4-Bromophenyl-phenylether	50	46.5	ug/L	93				73	103	
	Hexachlorobenzene	50	47.2	ug/L	94				73	106	
	Atrazine	50	60.9	ug/L	122				52	134	

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: O3645

Client: LaBella Associates P.C.

Analytical Method: 8270E **DataFile:** BP016413.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB154218BS	Pentachlorophenol	100	90.7	ug/L	91				65	112	
	Phenanthrene	50	49.8	ug/L	100				62	109	
	Anthracene	50	50.0	ug/L	100				65	110	
	Carbazole	50	51.7	ug/L	103				62	106	
	Di-n-butylphthalate	50	51.7	ug/L	103				64	106	
	Fluoranthene	50	48.9	ug/L	98				64	110	
	Pyrene	50	50.6	ug/L	101				71	103	
	Butylbenzylphthalate	50	54.1	ug/L	108		*		61	105	
	3,3-Dichlorobenzidine	50	42.2	ug/L	84				30	96	
	Benzo(a)anthracene	50	49.4	ug/L	99				62	107	
	Chrysene	50	48.3	ug/L	97				61	108	
	bis(2-Ethylhexyl)phthalate	50	53.5	ug/L	107				59	110	
	Di-n-octyl phthalate	50	54.7	ug/L	109				55	116	
	Benzo(b)fluoranthene	50	54.0	ug/L	108				64	111	
	Benzo(k)fluoranthene	50	53.9	ug/L	108				64	113	
	Benzo(a)pyrene	50	48.7	ug/L	97				72	131	
	Indeno(1,2,3-cd)pyrene	50	49.3	ug/L	99				72	105	
	Dibenz(a,h)anthracene	50	49.8	ug/L	100				63	117	
	Benzo(g,h,i)perylene	50	48.3	ug/L	97				61	120	
	1,2,4,5-Tetrachlorobenzene	50	45.3	ug/L	91				72	101	
	1,4-Dioxane	50	40.6	ug/L	81				38	125	
	2,3,4,6-Tetrachlorophenol	50	48.7	ug/L	97				63	116	

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: O3645

Client: LaBella Associates P.C.

Analytical Method: 8270E **DataFile:** BP016414.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB154218BSD	Benzaldehyde	50	58.9	ug/L	118	1			21	131	20
	Phenol	50	56.1	ug/L	112	1			66	118	20
	bis(2-Chloroethyl)ether	50	50.3	ug/L	101	0			62	103	20
	2-Chlorophenol	50	54.8	ug/L	110	0			70	117	20
	2-Methylphenol	50	51.6	ug/L	103	1			69	109	20
	2,2-oxybis(1-Chloropropane)	50	52.1	ug/L	104	2	*		52	103	20
	Acetophenone	50	48.3	ug/L	97	1			60	104	20
	3+4-Methylphenols	50	51.6	ug/L	103	1			67	106	20
	N-Nitroso-di-n-propylamine	50	49.0	ug/L	98	2			57	107	20
	Hexachloroethane	50	52.2	ug/L	104	2			60	105	20
	Nitrobenzene	50	48.9	ug/L	98	1			58	106	20
	Isophorone	50	47.4	ug/L	95	1			61	102	20
	2-Nitrophenol	50	46.6	ug/L	93	3			70	115	20
	2,4-Dimethylphenol	50	52.5	ug/L	105	0			67	130	20
	bis(2-Chloroethoxy)methane	50	48.3	ug/L	97	1			58	109	20
	2,4-Dichlorophenol	50	51.5	ug/L	103	0			66	115	20
	Naphthalene	50	47.4	ug/L	95	0			64	107	20
	4-Chloroaniline	50	31.1	ug/L	62	1			10	85	20
	Hexachlorobutadiene	50	45.3	ug/L	91	2			56	102	20
	Caprolactam	50	51.0	ug/L	102	1			47	129	20
	4-Chloro-3-methylphenol	50	51.6	ug/L	103	0			65	114	20
	2-Methylnaphthalene	50	45.3	ug/L	91	0			64	107	20
	Hexachlorocyclopentadiene	100	120	ug/L	120	0			49	132	20
	2,4,6-Trichlorophenol	50	50.7	ug/L	101	1			61	110	20
	2,4,5-Trichlorophenol	50	46.5	ug/L	93	0			70	106	20
	1,1-Biphenyl	50	47.6	ug/L	95	0			72	98	20
	2-Chloronaphthalene	50	49.0	ug/L	98	0			59	106	20
	2-Nitroaniline	50	53.0	ug/L	106	1			58	107	20
	Dimethylphthalate	50	47.1	ug/L	94	0			64	103	20
	Acenaphthylene	50	48.1	ug/L	96	0			65	108	20
	2,6-Dinitrotoluene	50	49.3	ug/L	99	0			64	110	20
	3-Nitroaniline	50	40.6	ug/L	81	1			28	100	20
	Acenaphthene	50	48.0	ug/L	96	0			59	113	20
	2,4-Dinitrophenol	100	97.1	ug/L	97	4			48	129	20
	4-Nitrophenol	100	120	ug/L	120	0	*		54	119	20
	Dibenzofuran	50	46.6	ug/L	93	0			65	106	20
	2,4-Dinitrotoluene	50	52.5	ug/L	105	0			60	115	20
	Diethylphthalate	50	48.1	ug/L	96	0			63	105	20
	4-Chlorophenyl-phenylether	50	45.6	ug/L	91	0			61	104	20
	Fluorene	50	47.7	ug/L	95	0			64	107	20
	4-Nitroaniline	50	49.4	ug/L	99	1			57	103	20
	4,6-Dinitro-2-methylphenol	50	49.4	ug/L	99	2			62	132	20
	N-Nitrosodiphenylamine	50	49.4	ug/L	99	1			61	109	20
	4-Bromophenyl-phenylether	50	46.3	ug/L	93	0			73	103	20
	Hexachlorobenzene	50	46.8	ug/L	94	1			73	106	20
	Atrazine	50	60.5	ug/L	121	1			52	134	20

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: O3645

Client: LaBella Associates P.C.

Analytical Method: 8270E **DataFile:** BP016414.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB154218BSD	Pentachlorophenol	100	90.4	ug/L	90	0			65	112	20
	Phenanthrene	50	49.1	ug/L	98	1			62	109	20
	Anthracene	50	49.4	ug/L	99	1			65	110	20
	Carbazole	50	51.1	ug/L	102	1			62	106	20
	Di-n-butylphthalate	50	51.3	ug/L	103	1			64	106	20
	Fluoranthene	50	48.4	ug/L	97	1			64	110	20
	Pyrene	50	50.3	ug/L	101	1			71	103	20
	Butylbenzylphthalate	50	54.1	ug/L	108	0	*		61	105	20
	3,3-Dichlorobenzidine	50	41.6	ug/L	83	1			30	96	20
	Benzo(a)anthracene	50	49.3	ug/L	99	0			62	107	20
	Chrysene	50	48.2	ug/L	96	0			61	108	20
	bis(2-Ethylhexyl)phthalate	50	53.6	ug/L	107	0			59	110	20
	Di-n-octyl phthalate	50	54.8	ug/L	110	0			55	116	20
	Benzo(b)fluoranthene	50	53.5	ug/L	107	1			64	111	20
	Benzo(k)fluoranthene	50	53.3	ug/L	107	1			64	113	20
	Benzo(a)pyrene	50	48.5	ug/L	97	0			72	131	20
	Indeno(1,2,3-cd)pyrene	50	49.5	ug/L	99	0			72	105	20
	Dibenz(a,h)anthracene	50	49.6	ug/L	99	0			63	117	20
	Benzo(g,h,i)perylene	50	48.3	ug/L	97	0			61	120	20
	1,2,4,5-Tetrachlorobenzene	50	45.6	ug/L	91	1			72	101	20
	1,4-Dioxane	50	40.5	ug/L	81	0			38	125	20
	2,3,4,6-Tetrachlorophenol	50	49.0	ug/L	98	1			63	116	20

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB154218BL

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM Case No.: O3645 SAS No.: O3645 SDG NO.: O3645

Lab File ID: BP016412.D Lab Sample ID: PB154218BL

Instrument ID: BNA_P Date Extracted: 07/17/2023

Matrix: (soil/water) Water Date Analyzed: 07/28/2023

Level: (low/med) LOW Time Analyzed: 08:37

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB154218BS	PB154218BS	BP016413.D	07/28/2023
PB154218BSD	PB154218BSD	BP016414.D	07/28/2023
RINSATE-BLANK	O3645-08	BF134528.D	07/28/2023

COMMENTS:

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB154258BL

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM Case No.: O3645 SAS No.: O3645 SDG NO.: O3645

Lab File ID: BF134356.D Lab Sample ID: PB154258BL

Instrument ID: BNA_F Date Extracted: 07/18/2023

Matrix: (soil/water) SOIL Date Analyzed: 07/19/2023

Level: (low/med) LOW Time Analyzed: 13:34

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB154258BS	PB154258BS	BF134357.D	07/19/2023
SB-02-(3-5)	O3645-01	BF134527.D	07/28/2023
SB-07-(1-3)	O3645-03	BF134531.D	07/29/2023
SB-04-(1-5)	O3645-02	BF134557.D	08/01/2023
SB-08-(0.5-2.0)	O3645-04	BF134556.D	08/01/2023
SB-10-(0.5-2.0)	O3645-06	BF134566.D	08/02/2023
DUP	O3645-07	BG058571.D	08/02/2023
SB-09-(2.0-4.0)	O3645-05	BG058572.D	08/02/2023
SB-04-(1-5)MS	O3645-09MS	BM041174.D	07/28/2023
SB-04-(1-5)MSD	O3645-10MSD	BM041175.D	07/28/2023

COMMENTS:

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM SAS No.: O3645 SDG NO.: O3645

Lab File ID: BF133952.D DFTPP Injection Date: 06/26/2023

Instrument ID: BNA_F DFTPP Injection Time: 14:41

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	46.4
68	Less than 2.0% of mass 69	0.7 (1.8) 1
69	Mass 69 relative abundance	38.9
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	49.1
197	Less than 2.0% of mass 198	0.7
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	7
275	10.0 - 60.0% of mass 198	29.7
365	Greater than 1% of mass 198	3.9
441	Present, but less than mass 443	15.9
442	Greater than 50% of mass 198	100.0
443	15.0 - 24.0% of mass 442	18.3 (19) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC2.5	SSTDICC2.5	BF133953.D	06/26/2023	15:19
SSTDICC005	SSTDICC005	BF133954.D	06/26/2023	15:53
SSTDICC010	SSTDICC010	BF133955.D	06/26/2023	16:27
SSTDICC020	SSTDICC020	BF133956.D	06/26/2023	17:02
SSTDICCC040	SSTDICCC040	BF133957.D	06/26/2023	17:37
SSTDICC050	SSTDICC050	BF133958.D	06/26/2023	18:12
SSTDICC060	SSTDICC060	BF133959.D	06/26/2023	18:47
SSTDICC080	SSTDICC080	BF133960.D	06/26/2023	19:21

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM SAS No.: O3645 SDG NO.: O3645

Lab File ID: BF134354.D DFTPP Injection Date: 07/19/2023

Instrument ID: BNA_F DFTPP Injection Time: 12:29

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	39.4
68	Less than 2.0% of mass 69	0.4 (1.5) 1
69	Mass 69 relative abundance	37.4
70	Less than 2.0% of mass 69	0.1 (0.5) 1
127	10.0 - 80.0% of mass 198	46.8
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 60.0% of mass 198	32.8
365	Greater than 1% of mass 198	4.6
441	Present, but less than mass 443	21.1
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	18.8 (18.8) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF134355.D	07/19/2023	13:01
PB154258BL	PB154258BL	BF134356.D	07/19/2023	13:34
PB154258BS	PB154258BS	BF134357.D	07/19/2023	14:07

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM SAS No.: O3645 SDG NO.: O3645

Lab File ID: BF134425.D DFTPP Injection Date: 07/24/2023

Instrument ID: BNA_F DFTPP Injection Time: 12:41

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	44.3
68	Less than 2.0% of mass 69	0.4 (0.9) 1
69	Mass 69 relative abundance	40.1
70	Less than 2.0% of mass 69	0.0 (0.0) 1
127	10.0 - 80.0% of mass 198	51.0
197	Less than 2.0% of mass 198	0.4
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.4
275	10.0 - 60.0% of mass 198	29.9
365	Greater than 1% of mass 198	3.8
441	Present, but less than mass 443	17.3
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19.4 (19.4) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC2.5	SSTDICC2.5	BF134427.D	07/24/2023	13:46
SSTDICC005	SSTDICC005	BF134428.D	07/24/2023	14:19
SSTDICC010	SSTDICC010	BF134429.D	07/24/2023	14:53
SSTDICC020	SSTDICC020	BF134430.D	07/24/2023	15:28
SSTDICCC040	SSTDICCC040	BF134431.D	07/24/2023	16:02
SSTDICC050	SSTDICC050	BF134432.D	07/24/2023	16:36
SSTDICC060	SSTDICC060	BF134433.D	07/24/2023	17:10
SSTDICC080	SSTDICC080	BF134434.D	07/24/2023	17:44

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM SAS No.: O3645 SDG NO.: O3645

Lab File ID: BF134517.D DFTPP Injection Date: 07/28/2023

Instrument ID: BNA_F DFTPP Injection Time: 15:21

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	40.4
68	Less than 2.0% of mass 69	0.3 (1.1) 1
69	Mass 69 relative abundance	38.6
70	Less than 2.0% of mass 69	0.1 (0.5) 1
127	10.0 - 80.0% of mass 198	49.2
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.6
275	10.0 - 60.0% of mass 198	31.6
365	Greater than 1% of mass 198	4.5
441	Present, but less than mass 443	20.7
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	18.8 (18.8) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF134518.D	07/28/2023	16:29
SB-02-(3-5)	O3645-01	BF134527.D	07/28/2023	21:40
RINSATE-BLANK	O3645-08	BF134528.D	07/28/2023	22:17
SB-07-(1-3)	O3645-03	BF134531.D	07/29/2023	00:10

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM SAS No.: O3645 SDG NO.: O3645

Lab File ID: BF134535.D DFTPP Injection Date: 08/01/2023

Instrument ID: BNA_F DFTPP Injection Time: 07:20

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	36.8
68	Less than 2.0% of mass 69	0.5 (1.8) 1
69	Mass 69 relative abundance	33.0
70	Less than 2.0% of mass 69	0.2 (0.7) 1
127	10.0 - 80.0% of mass 198	44.7
197	Less than 2.0% of mass 198	0.8
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	27.2
365	Greater than 1% of mass 198	3.9
441	Present, but less than mass 443	17.1
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	18.8 (18.8) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC2.5	SSTDICC2.5	BF134536.D	08/01/2023	07:51
SSTDICC005	SSTDICC005	BF134537.D	08/01/2023	08:22
SSTDICC010	SSTDICC010	BF134538.D	08/01/2023	08:54
SSTDICC020	SSTDICC020	BF134539.D	08/01/2023	09:24
SSTDICCC040	SSTDICCC040	BF134540.D	08/01/2023	10:12
SSTDICC050	SSTDICC050	BF134541.D	08/01/2023	10:44
SSTDICC060	SSTDICC060	BF134542.D	08/01/2023	11:15
SSTDICC080	SSTDICC080	BF134543.D	08/01/2023	11:47

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM SAS No.: O3645 SDG NO.: O3645

Lab File ID: BF134546.D DFTPP Injection Date: 08/01/2023

Instrument ID: BNA_F DFTPP Injection Time: 13:54

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	38.6
68	Less than 2.0% of mass 69	0.5 (1.7) 1
69	Mass 69 relative abundance	34.1
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	46.3
197	Less than 2.0% of mass 198	0.8
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.6
275	10.0 - 60.0% of mass 198	27.4
365	Greater than 1% of mass 198	3.5
441	Present, but less than mass 443	16.7
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	18.9 (18.9) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF134547.D	08/01/2023	14:27
SB-08-(0.5-2.0)	O3645-04	BF134556.D	08/01/2023	19:24
SB-04-(1-5)	O3645-02	BF134557.D	08/01/2023	19:56
SB-10-(0.5-2.0)DL	O3645-06DL	BF134565.D	08/02/2023	00:09
SB-10-(0.5-2.0)	O3645-06	BF134566.D	08/02/2023	00:41

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM SAS No.: O3645 SDG NO.: O3645

Lab File ID: BG058509.D DFTPP Injection Date: 07/28/2023

Instrument ID: BNA_G DFTPP Injection Time: 08:40

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	39.2
68	Less than 2.0% of mass 69	0.2 (0.5) 1
69	Mass 69 relative abundance	31.4
70	Less than 2.0% of mass 69	0.2 (0.7) 1
127	10.0 - 80.0% of mass 198	39.1
197	Less than 2.0% of mass 198	0.2
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 60.0% of mass 198	27.1
365	Greater than 1% of mass 198	3.5
441	Present, but less than mass 443	13.5
442	Greater than 50% of mass 198	100.0
443	15.0 - 24.0% of mass 442	16.3 (20.4) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC2.5	SSTDICC2.5	BG058510.D	07/28/2023	09:21
SSTDICC005	SSTDICC005	BG058511.D	07/28/2023	10:02
SSTDICC010	SSTDICC010	BG058512.D	07/28/2023	10:43
SSTDICC020	SSTDICC020	BG058513.D	07/28/2023	11:24
SSTDICCC040	SSTDICCC040	BG058514.D	07/28/2023	12:05
SSTDICC050	SSTDICC050	BG058515.D	07/28/2023	12:46
SSTDICC060	SSTDICC060	BG058516.D	07/28/2023	13:27
SSTDICC080	SSTDICC080	BG058517.D	07/28/2023	14:09

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM SAS No.: O3645 SDG NO.: O3645

Lab File ID: BG058568.D DFTPP Injection Date: 08/02/2023

Instrument ID: BNA_G DFTPP Injection Time: 07:54

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	35.9
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	31.6
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	38.6
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 60.0% of mass 198	28.9
365	Greater than 1% of mass 198	3.7
441	Present, but less than mass 443	14.8
442	Greater than 50% of mass 198	100.0
443	15.0 - 24.0% of mass 442	17.3 (19.6) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BG058569.D	08/02/2023	08:34
DUP	O3645-07	BG058571.D	08/02/2023	09:59
SB-09-(2.0-4.0)	O3645-05	BG058572.D	08/02/2023	10:39

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM SAS No.: O3645 SDG NO.: O3645

Lab File ID: BM041157.D DFTPP Injection Date: 07/28/2023

Instrument ID: BNA_M DFTPP Injection Time: 09:37

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	41.2
68	Less than 2.0% of mass 69	0.8 (1.8) 1
69	Mass 69 relative abundance	44.5
70	Less than 2.0% of mass 69	0.3 (0.7) 1
127	10.0 - 80.0% of mass 198	47.9
197	Less than 2.0% of mass 198	0.3
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 60.0% of mass 198	26.2
365	Greater than 1% of mass 198	3.6
441	Present, but less than mass 443	14.5
442	Greater than 50% of mass 198	100.0
443	15.0 - 24.0% of mass 442	18.1 (19.9) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC2.5	SSTDICC2.5	BM041158.D	07/28/2023	10:14
SSTDICC005	SSTDICC005	BM041159.D	07/28/2023	10:51
SSTDICC010	SSTDICC010	BM041160.D	07/28/2023	11:29
SSTDICC020	SSTDICC020	BM041161.D	07/28/2023	12:06
SSTDICCC040	SSTDICCC040	BM041162.D	07/28/2023	12:44
SSTDICC050	SSTDICC050	BM041163.D	07/28/2023	13:22
SSTDICC060	SSTDICC060	BM041164.D	07/28/2023	14:00
SSTDICC080	SSTDICC080	BM041165.D	07/28/2023	14:38

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM SAS No.: O3645 SDG NO.: O3645

Lab File ID: BM041168.D DFTPP Injection Date: 07/28/2023

Instrument ID: BNA_M DFTPP Injection Time: 16:33

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	42.8
68	Less than 2.0% of mass 69	0.7 (1.5) 1
69	Mass 69 relative abundance	46.4
70	Less than 2.0% of mass 69	0.3 (0.6) 1
127	10.0 - 80.0% of mass 198	49
197	Less than 2.0% of mass 198	0.4
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 60.0% of mass 198	25.3
365	Greater than 1% of mass 198	3.5
441	Present, but less than mass 443	13.3
442	Greater than 50% of mass 198	100.0
443	15.0 - 24.0% of mass 442	16 (19.1) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BM041169.D	07/28/2023	17:11
SB-04-(1-5)MS	O3645-09MS	BM041174.D	07/28/2023	20:22
SB-04-(1-5)MSD	O3645-10MSD	BM041175.D	07/28/2023	21:00

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM SAS No.: O3645 SDG NO.: O3645

Lab File ID: BP016392.D DFTPP Injection Date: 07/27/2023

Instrument ID: BNA_P DFTPP Injection Time: 09:55

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	28.8
68	Less than 2.0% of mass 69	0.4 (1.6) 1
69	Mass 69 relative abundance	32.8
70	Less than 2.0% of mass 69	0.1 (0.5) 1
127	10.0 - 80.0% of mass 198	42.7
197	Less than 2.0% of mass 198	0.4
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	27.9
365	Greater than 1% of mass 198	4.2
441	Present, but less than mass 443	20.0
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	20 (20) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC2.5	SSTDICC2.5	BP016393.D	07/27/2023	11:03
SSTDICC005	SSTDICC005	BP016394.D	07/27/2023	11:37
SSTDICC010	SSTDICC010	BP016395.D	07/27/2023	12:12
SSTDICC020	SSTDICC020	BP016396.D	07/27/2023	12:46
SSTDICCC040	SSTDICCC040	BP016397.D	07/27/2023	13:20
SSTDICC050	SSTDICC050	BP016398.D	07/27/2023	13:55
SSTDICC060	SSTDICC060	BP016399.D	07/27/2023	14:29
SSTDICC080	SSTDICC080	BP016400.D	07/27/2023	15:03

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM SAS No.: O3645 SDG NO.: O3645

Lab File ID: BP016410.D DFTPP Injection Date: 07/28/2023

Instrument ID: BNA_P DFTPP Injection Time: 07:30

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	34.6
68	Less than 2.0% of mass 69	0.6 (1.6) 1
69	Mass 69 relative abundance	38.2
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	47.2
197	Less than 2.0% of mass 198	0.6
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 60.0% of mass 198	24.4
365	Greater than 1% of mass 198	3.2
441	Present, but less than mass 443	13.9
442	Greater than 50% of mass 198	100.0
443	15.0 - 24.0% of mass 442	17.7 (19.9) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BP016411.D	07/28/2023	08:03
PB154218BL	PB154218BL	BP016412.D	07/28/2023	08:37
PB154218BS	PB154218BS	BP016413.D	07/28/2023	09:12
PB154218BSD	PB154218BSD	BP016414.D	07/28/2023	09:48

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: O3645 SAS No.: O3645 SDG NO.: O3645

EPA Sample No.: SSTDCCC040 Date Analyzed: 07/19/2023

Lab File ID: BF134355.D Time Analyzed: 13:01

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	72147	6.84	261643	8.12	134896	9.88
	UPPER LIMIT	144294	7.34	523286	8.622	269792	10.381
	LOWER LIMIT	36073.5	6.34	130822	7.622	67448	9.381
	EPA SAMPLE NO.						
01	PB154258BL	76908	6.84	293261	8.12	157065	9.88
02	PB154258BS	73456	6.84	287399	8.12	147548	9.88

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

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

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

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: O3645 SAS No.: O3645 SDG NO.: O3645

EPA Sample No.: SSTDCCC040 Date Analyzed: 07/19/2023

Lab File ID: BF134355.D Time Analyzed: 13:01

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	265144	11.375	186886	14.039	165841	15.545
	UPPER LIMIT	530288	11.875	373772	14.539	331682	16.045
	LOWER LIMIT	132572	10.875	93443	13.539	82920.5	15.045
	EPA SAMPLE NO.						
01	PB154258BL	314062	11.37	230557	14.03	204908	15.54
02	PB154258BS	283533	11.38	207181	14.04	162647	15.55

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

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

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

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: O3645 SAS No.: O3645 SDG NO.: O3645

EPA Sample No.: SSTDCCC040 Date Analyzed: 07/28/2023

Lab File ID: BF134518.D Time Analyzed: 16:29

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	87669	6.828	337479	8.11	185549	9.87
	UPPER LIMIT	175338	7.328	674958	8.61	371098	10.369
	LOWER LIMIT	43834.5	6.328	168740	7.61	92774.5	9.369
	EPA SAMPLE NO.						
01	SB-02-(3-5)	80491	6.83	305901	8.11	133240	9.86
02	SB-07-(1-3)	99614	6.83	368068	8.11	164170	9.86
03	RINSATE-BLANK	116133	6.83	261936	8.11	136997	9.86

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

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

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

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: O3645 SAS No.: O3645 SDG NO.: O3645

EPA Sample No.: SSTDCCC040 Date Analyzed: 07/28/2023

Lab File ID: BF134518.D Time Analyzed: 16:29

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	383332	11.363	254954	14.021	199170	15.515
	UPPER LIMIT	766664	11.863	509908	14.521	398340	16.015
	LOWER LIMIT	191666	10.863	127477	13.521	99585	15.015
	EPA SAMPLE NO.						
01	SB-02-(3-5)	192351	11.36	143002	14.02	101757	15.52
02	SB-07-(1-3)	266517	11.36	176024	14.02	152338	15.52
03	RINSATE-BLANK	224038	11.36	149740	14.02	125969	15.52

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

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

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

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: O3645 SAS No.: O3645 SDG NO.: O3645

EPA Sample No.: SSTDCCC040 Date Analyzed: 08/01/2023

Lab File ID: BF134547.D Time Analyzed: 14:27

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	220485	6.792	863869	8.08	433432	9.83
	UPPER LIMIT	440970	7.292	1727740	8.575	866864	10.328
	LOWER LIMIT	110243	6.292	431935	7.575	216716	9.328
	EPA SAMPLE NO.						
01	SB-04-(1-5)	205461	6.79	825053	8.07	411202	9.82
02	SB-08-(0.5-2.0)	186884	6.79	736666	8.07	365569	9.82
03	SB-10-(0.5-2.0)	186419	6.79	688439	8.07	288810	9.83
04	SB-10-(0.5-2.0)DL	176047	6.79	669108	8.07	288095	9.82

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

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

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

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: O3645 SAS No.: O3645 SDG NO.: O3645

EPA Sample No.: SSTDCCC040 Date Analyzed: 08/01/2023

Lab File ID: BF134547.D Time Analyzed: 14:27

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	785259	11.316	498206	13.963	453778	15.415
	UPPER LIMIT	1570520	11.816	996412	14.463	907556	15.915
	LOWER LIMIT	392630	10.816	249103	13.463	226889	14.915
	EPA SAMPLE NO.						
01	SB-04-(1-5)	731340	11.31	404523	13.95	444719	15.41
02	SB-08-(0.5-2.0)	647165	11.31	366423	13.95	422938	15.41
03	SB-10-(0.5-2.0)	477851	11.32	297316	13.97	259002	15.43
04	SB-10-(0.5-2.0)DL	446577	11.31	335956	13.96	267080	15.42

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

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

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

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: O3645 SAS No.: O3645 SDG NO.: O3645

EPA Sample No.: SSTDCCC040 Date Analyzed: 08/02/2023

Lab File ID: BG058569.D Time Analyzed: 08:34

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

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	39596	7.814	168505	10.62	117751	14.47
	UPPER LIMIT	79192	8.314	337010	11.116	235502	14.965
	LOWER LIMIT	19798	7.314	84252.5	10.116	58875.5	13.965
	EPA SAMPLE NO.						
01	DUP	54082	7.81	234812	10.61	164688	14.46
02	SB-09-(2.0-4.0)	58172	7.81	254632	10.62	173135	14.46

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

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

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

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: O3645 SAS No.: O3645 SDG NO.: O3645

EPA Sample No.: SSTDCCC040 Date Analyzed: 08/02/2023

Lab File ID: BG058569.D Time Analyzed: 08:34

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

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	312836	17.209	298102	21.457	377370	24.529
	UPPER LIMIT	625672	17.709	596204	21.957	754740	25.029
	LOWER LIMIT	156418	16.709	149051	20.957	188685	24.029
	EPA SAMPLE NO.						
01	DUP	370089	17.21	322252	21.45	402408	24.52
02	SB-09-(2.0-4.0)	388943	17.21	335998	21.45	415042	24.52

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

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

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

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: O3645 SAS No.: O3645 SDG NO.: O3645

EPA Sample No.: SSTDCCC040 Date Analyzed: 07/28/2023

Lab File ID: BM041169.D Time Analyzed: 17:11

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

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	155350	7.804	581542	10.62	321278	14.47
	UPPER LIMIT	310700	8.304	1163080	11.116	642556	14.969
	LOWER LIMIT	77675	7.304	290771	10.116	160639	13.969
	EPA SAMPLE NO.						
01	SB-04-(1-5)MS	183644	7.80	715690	10.61	398072	14.47
02	SB-04-(1-5)MSD	193205	7.80	741556	10.61	413329	14.47

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

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

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

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: O3645 SAS No.: O3645 SDG NO.: O3645

EPA Sample No.: SSTDCCC040 Date Analyzed: 07/28/2023

Lab File ID: BM041169.D Time Analyzed: 17:11

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

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	645331	17.227	604742	21.433	674680	23.803
	UPPER LIMIT	1290660	17.727	1209480	21.933	1349360	24.303
	LOWER LIMIT	322666	16.727	302371	20.933	337340	23.303
	EPA SAMPLE NO.						
01	SB-04-(1-5)MS	828030	17.23	795964	21.43	909051	23.80
02	SB-04-(1-5)MSD	855318	17.23	829098	21.43	953040	23.80

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

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

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

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: O3645 SAS No.: O3645 SDG NO.: O3645

EPA Sample No.: SSTDCCC040 Date Analyzed: 07/28/2023

Lab File ID: BP016411.D Time Analyzed: 08:03

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

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	506538	8.093	2090640	10.92	1248290	14.73
	UPPER LIMIT	1013080	8.593	4181280	11.422	2496580	15.234
	LOWER LIMIT	253269	7.593	1045320	10.422	624145	14.234
	EPA SAMPLE NO.						
01	PB154218BL	431547	8.09	1746470	10.92	1045570	14.73
02	PB154218BS	349249	8.09	1482470	10.92	905687	14.73
03	PB154218BSD	341099	8.09	1443210	10.92	877872	14.73

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

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

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

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: O3645 SAS No.: O3645 SDG NO.: O3645

EPA Sample No.: SSTDCCC040 Date Analyzed: 07/28/2023

Lab File ID: BP016411.D Time Analyzed: 08:03

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

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	2658100	17.498	2292480	21.592	2240140	24.186
	UPPER LIMIT	5316200	17.998	4584960	22.092	4480280	24.686
	LOWER LIMIT	1329050	16.998	1146240	21.092	1120070	23.686
	EPA SAMPLE NO.						
01	PB154218BL	2341400	17.49	2050870	21.59	2195260	24.18
02	PB154218BS	1936050	17.50	1800690	21.59	1921990	24.19
03	PB154218BSD	1902270	17.50	1781260	21.59	1923430	24.19

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

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

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

SAMPLE DATA

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/12/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-02-(3-5)	SDG No.:	O3645
Lab Sample ID:	O3645-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	86.3
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF134527.D	1	07/18/23 09:45	07/28/23 21:40	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	380	U	170	380	ug/Kg
108-95-2	Phenol	200	U	86.1	200	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	200	U	100	200	ug/Kg
95-57-8	2-Chlorophenol	200	U	83.3	200	ug/Kg
95-48-7	2-Methylphenol	200	U	130	200	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	200	U	120	200	ug/Kg
98-86-2	Acetophenone	200	U	100	200	ug/Kg
65794-96-9	3+4-Methylphenols	380	U	120	380	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	92.6	U	68.3	92.6	ug/Kg
67-72-1	Hexachloroethane	200	U	85.2	200	ug/Kg
98-95-3	Nitrobenzene	200	U	87.0	200	ug/Kg
78-59-1	Isophorone	200	U	78.8	200	ug/Kg
88-75-5	2-Nitrophenol	200	U	110	200	ug/Kg
105-67-9	2,4-Dimethylphenol	200	U	120	200	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	200	U	130	200	ug/Kg
120-83-2	2,4-Dichlorophenol	200	U	90.4	200	ug/Kg
91-20-3	Naphthalene	200	U	94.2	200	ug/Kg
106-47-8	4-Chloroaniline	200	U	120	200	ug/Kg
87-68-3	Hexachlorobutadiene	200	U	97.2	200	ug/Kg
105-60-2	Caprolactam	380	U	140	380	ug/Kg
59-50-7	4-Chloro-3-methylphenol	200	U	95.5	200	ug/Kg
91-57-6	2-Methylnaphthalene	200	U	110	200	ug/Kg
77-47-4	Hexachlorocyclopentadiene	380	U	240	380	ug/Kg
88-06-2	2,4,6-Trichlorophenol	200	U	89.2	200	ug/Kg
95-95-4	2,4,5-Trichlorophenol	200	U	100	200	ug/Kg
92-52-4	1,1-Biphenyl	200	U	110	200	ug/Kg
91-58-7	2-Chloronaphthalene	200	U	97.9	200	ug/Kg
88-74-4	2-Nitroaniline	200	U	110	200	ug/Kg
131-11-3	Dimethylphthalate	570		100	200	ug/Kg
208-96-8	Acenaphthylene	200	U	100	200	ug/Kg
606-20-2	2,6-Dinitrotoluene	200	U	100	200	ug/Kg

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/12/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-02-(3-5)	SDG No.:	O3645
Lab Sample ID:	O3645-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	86.3
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF134527.D	1	07/18/23 09:45	07/28/23 21:40	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
99-09-2	3-Nitroaniline	200	U	110	200	ug/Kg
83-32-9	Acenaphthene	200	U	92.9	200	ug/Kg
51-28-5	2,4-Dinitrophenol	380	U	210	380	ug/Kg
100-02-7	4-Nitrophenol	380	U	130	380	ug/Kg
132-64-9	Dibenzofuran	200	U	89.0	200	ug/Kg
121-14-2	2,4-Dinitrotoluene	200	U	120	200	ug/Kg
84-66-2	Diethylphthalate	200	U	99.4	200	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	200	U	100	200	ug/Kg
86-73-7	Fluorene	200	U	98.1	200	ug/Kg
100-01-6	4-Nitroaniline	200	U	120	200	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	380	U	100	380	ug/Kg
86-30-6	n-Nitrosodiphenylamine	200	U	110	200	ug/Kg
101-55-3	4-Bromophenyl-phenylether	200	U	110	200	ug/Kg
118-74-1	Hexachlorobenzene	200	U	110	200	ug/Kg
1912-24-9	Atrazine	200	U	110	200	ug/Kg
87-86-5	Pentachlorophenol	380	U	130	380	ug/Kg
85-01-8	Phenanthrene	200	U	110	200	ug/Kg
120-12-7	Anthracene	200	U	120	200	ug/Kg
86-74-8	Carbazole	200	U	98.2	200	ug/Kg
84-74-2	Di-n-butylphthalate	200	U	120	200	ug/Kg
206-44-0	Fluoranthene	200	U	110	200	ug/Kg
129-00-0	Pyrene	200	U	96.9	200	ug/Kg
85-68-7	Butylbenzylphthalate	200	U	120	200	ug/Kg
91-94-1	3,3-Dichlorobenzidine	380	U	190	380	ug/Kg
56-55-3	Benzo(a)anthracene	200	U	97.1	200	ug/Kg
218-01-9	Chrysene	200	U	100	200	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	200	U	130	200	ug/Kg
117-84-0	Di-n-octyl phthalate	380	U	140	380	ug/Kg
205-99-2	Benzo(b)fluoranthene	200	U	92.9	200	ug/Kg
207-08-9	Benzo(k)fluoranthene	200	U	100	200	ug/Kg
50-32-8	Benzo(a)pyrene	200	U	110	200	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	200	U	120	200	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	200	U	110	200	ug/Kg

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/12/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-02-(3-5)	SDG No.:	O3645
Lab Sample ID:	O3645-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	86.3
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF134527.D	1	07/18/23 09:45	07/28/23 21:40	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
191-24-2	Benzo(g,h,i)perylene	200	U	110	200	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U	100	200	ug/Kg
123-91-1	1,4-Dioxane	200	U	140	200	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	200	U	95.9	200	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	127		18 - 112	85%	SPK: 150
13127-88-3	Phenol-d6	125		21 - 104	83%	SPK: 150
4165-60-0	Nitrobenzene-d5	77.7		27 - 109	78%	SPK: 100
321-60-8	2-Fluorobiphenyl	86.6		30 - 103	87%	SPK: 100
118-79-6	2,4,6-Tribromophenol	99.7		10 - 121	66%	SPK: 150
1718-51-0	Terphenyl-d14	80.0		21 - 107	80%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	80500	6.834			
1146-65-2	Naphthalene-d8	306000	8.11			
15067-26-2	Acenaphthene-d10	133000	9.863			
1517-22-2	Phenanthrene-d10	192000	11.363			
1719-03-5	Chrysene-d12	143000	14.021			
1520-96-3	Perylene-d12	102000	15.521			
TENTATIVE IDENTIFIED COMPOUNDS						
000994-05-8	Butane, 2-methoxy-2-methyl-	810	J		2.13	ug/Kg
000057-10-3	n-Hexadecanoic acid	330	J		11.9	ug/Kg
1000406-04-8	Pentadecafluorooctanoic acid, octa	360	J		13.9	ug/Kg

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

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF072823\
Data File : BF134527.D
Acq On : 28 Jul 2023 21:40
Operator : CG\JU
Sample : 03645-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-02-(3-5)

Quant Time: Jul 29 01:28:22 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF072423.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jul 27 12:16:03 2023
Response via : Initial Calibration

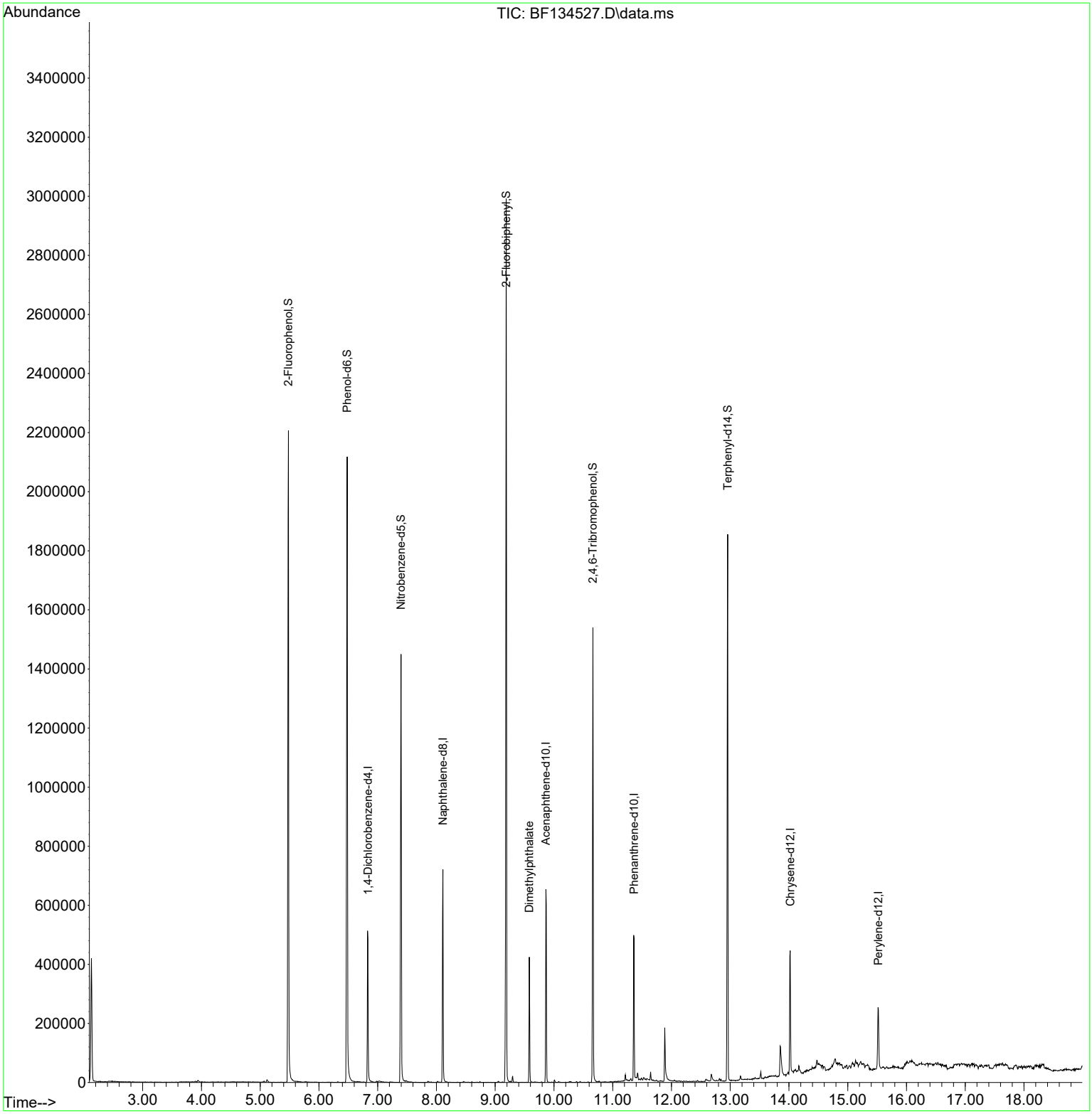
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.834	152	80491	20.000	ng	0.00
21) Naphthalene-d8	8.110	136	305901	20.000	ng	0.00
39) Acenaphthene-d10	9.863	164	133240	20.000	ng	0.00
64) Phenanthrene-d10	11.363	188	192351	20.000	ng	0.00
76) Chrysene-d12	14.021	240	143002	20.000	ng	0.00
86) Perylene-d12	15.521	264	101757	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.481	112	619903	127.244	ng	0.02
7) Phenol-d6	6.481	99	744087	124.661	ng	0.00
23) Nitrobenzene-d5	7.398	82	469769	77.697	ng	0.00
42) 2,4,6-Tribromophenol	10.663	330	188719	99.688	ng	0.00
45) 2-Fluorobiphenyl	9.186	172	878982	86.605	ng	0.00
79) Terphenyl-d14	12.957	244	655376	80.003	ng	0.00
Target Compounds						Qvalue
50) Dimethylphthalate	9.581	163	145341	14.715	ng	98

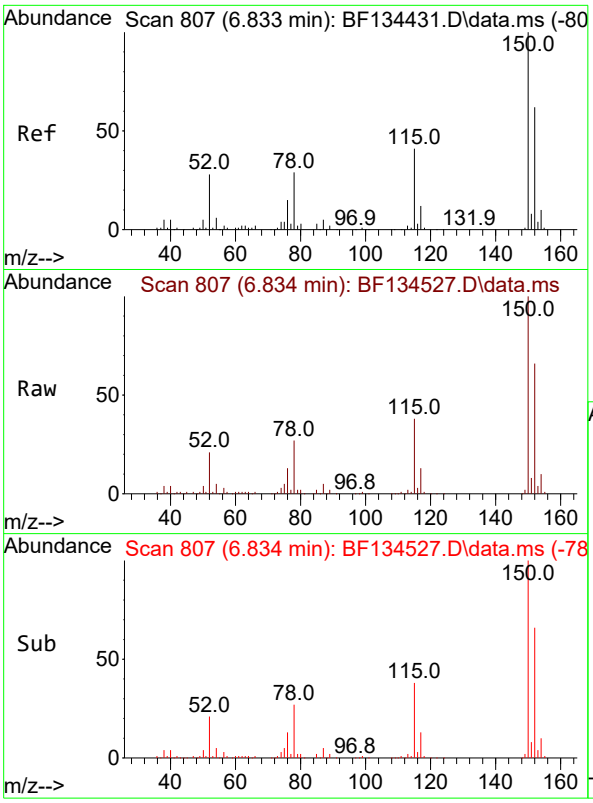
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF072823\
Data File : BF134527.D
Acq On : 28 Jul 2023 21:40
Operator : CG\JU
Sample : 03645-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-02-(3-5)

Quant Time: Jul 29 01:28:22 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF072423.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jul 27 12:16:03 2023
Response via : Initial Calibration



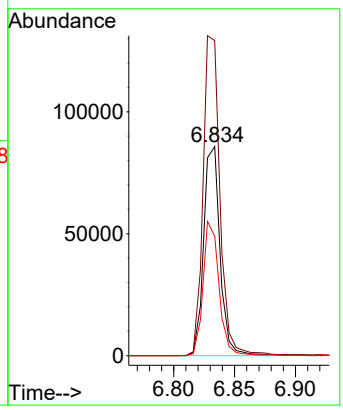


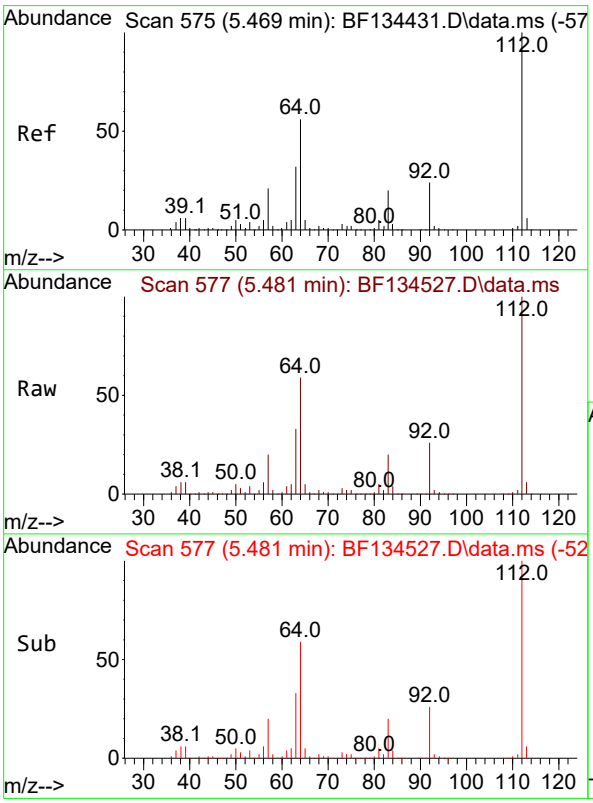
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.834 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF134527.D
Acq: 28 Jul 2023 21:40

Instrument :
BNA_F
ClientSampleId :
SB-02-(3-5)

Tgt Ion:152 Resp: 80491

Ion	Ratio	Lower	Upper
152	100		
150	150.6	128.3	192.5
115	57.2	52.4	78.6

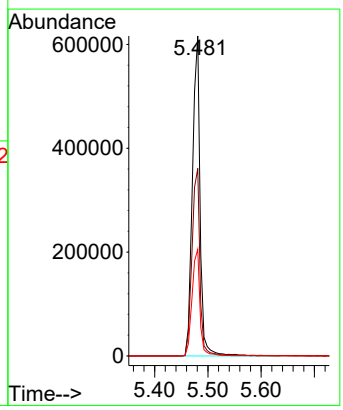


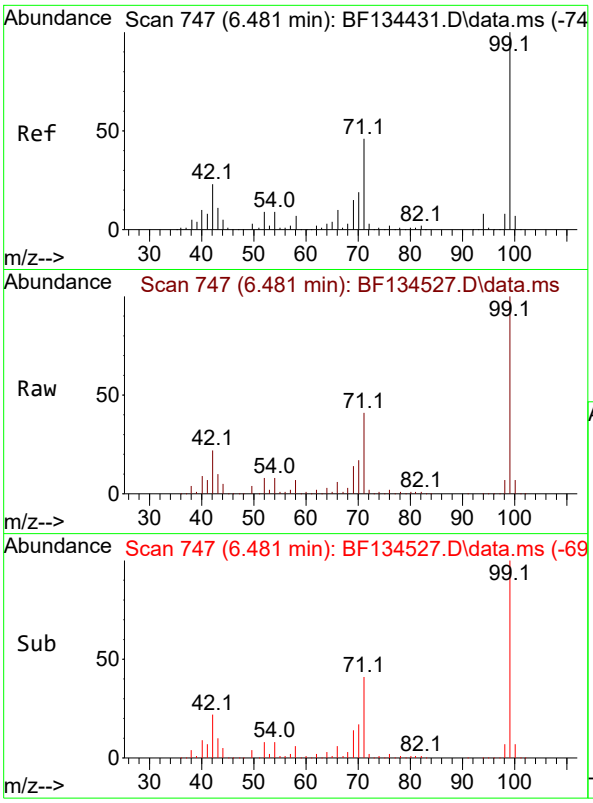


#5
2-Fluorophenol
Concen: 127.244 ng
RT: 5.481 min Scan# 577
Delta R.T. 0.018 min
Lab File: BF134527.D
Acq: 28 Jul 2023 21:40

Tgt Ion:112 Resp: 619903

Ion	Ratio	Lower	Upper
112	100		
64	58.6	44.9	67.3
63	33.4	25.4	38.0



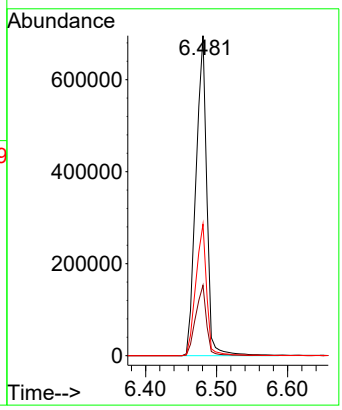


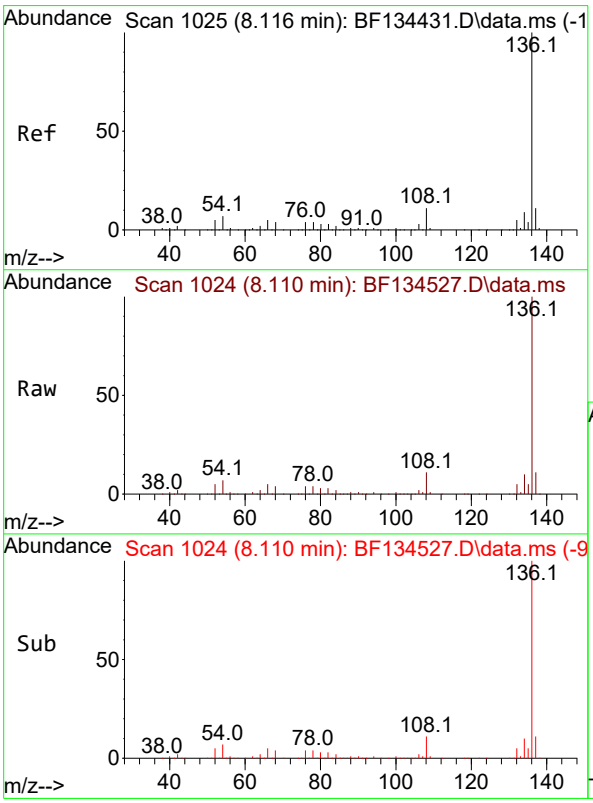
#7
Phenol-d6
Concen: 124.661 ng
RT: 6.481 min Scan# 7
Delta R.T. 0.006 min
Lab File: BF134527.D
Acq: 28 Jul 2023 21:40

Instrument :
BNA_F
ClientSampleId :
SB-02-(3-5)

Tgt Ion: 99 Resp: 744087

Ion	Ratio	Lower	Upper
99	100		
42	22.0	18.7	28.1
71	41.1	36.4	54.6

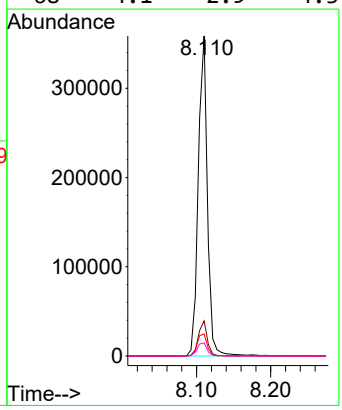


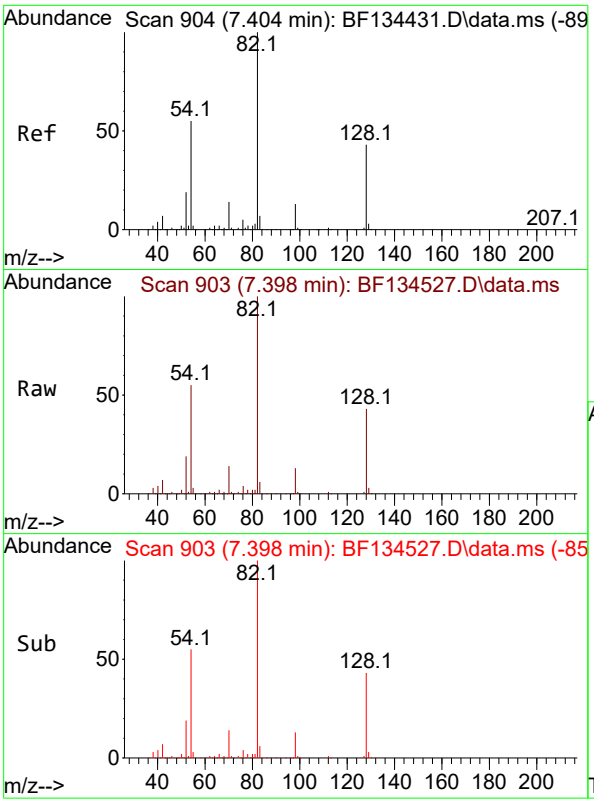


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.110 min Scan# 1024
Delta R.T. 0.006 min
Lab File: BF134527.D
Acq: 28 Jul 2023 21:40

Tgt Ion:136 Resp: 305901

Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.4	12.6
54	6.9	5.2	7.8
68	4.1	2.9	4.3



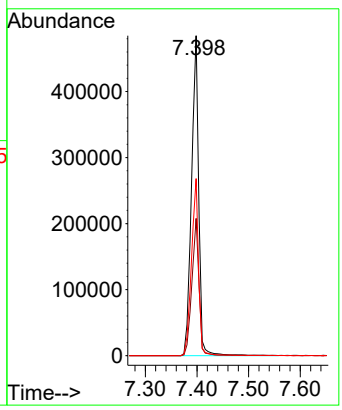


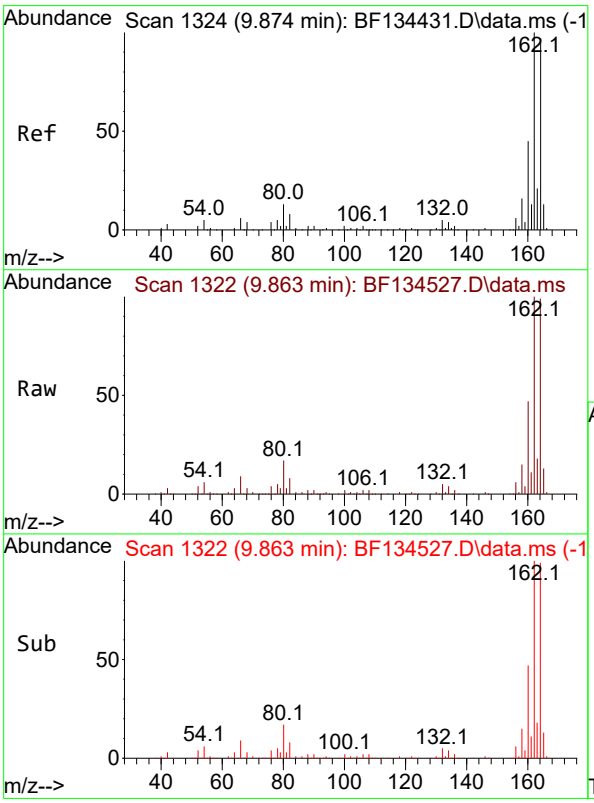
#23
Nitrobenzene-d5
Concen: 77.697 ng
RT: 7.398 min Scan# 9
Delta R.T. 0.006 min
Lab File: BF134527.D
Acq: 28 Jul 2023 21:40

Instrument :
BNA_F
ClientSampleId :
SB-02-(3-5)

Tgt Ion: 82 Resp: 469769

Ion	Ratio	Lower	Upper
82	100		
128	42.9	34.3	51.5
54	55.3	43.8	65.6

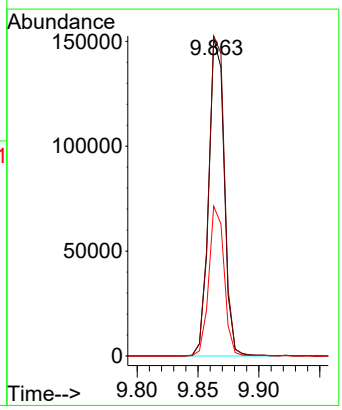


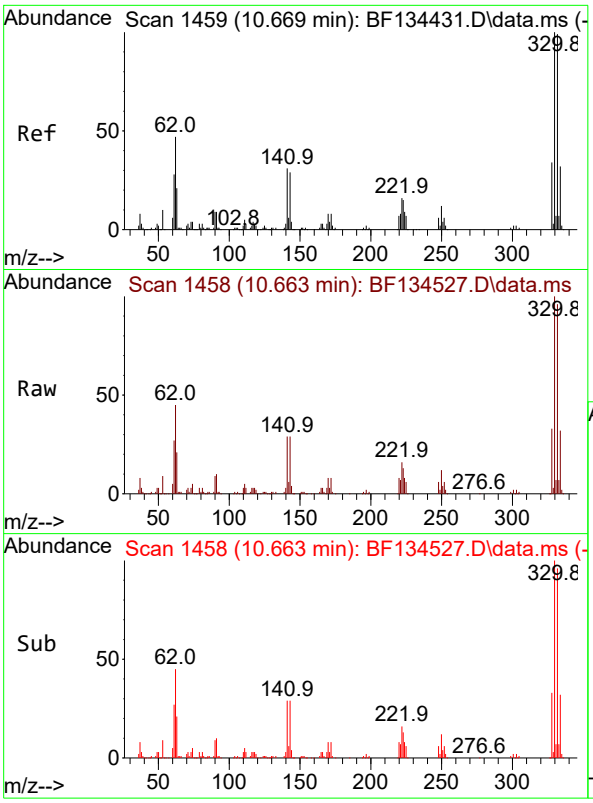


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.863 min Scan# 1322
Delta R.T. 0.000 min
Lab File: BF134527.D
Acq: 28 Jul 2023 21:40

Tgt Ion:164 Resp: 133240

Ion	Ratio	Lower	Upper
164	100		
162	100.8	82.6	123.8
160	47.2	37.2	55.8



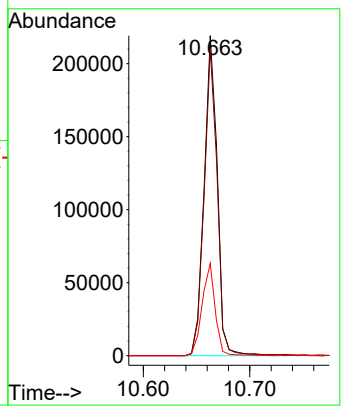


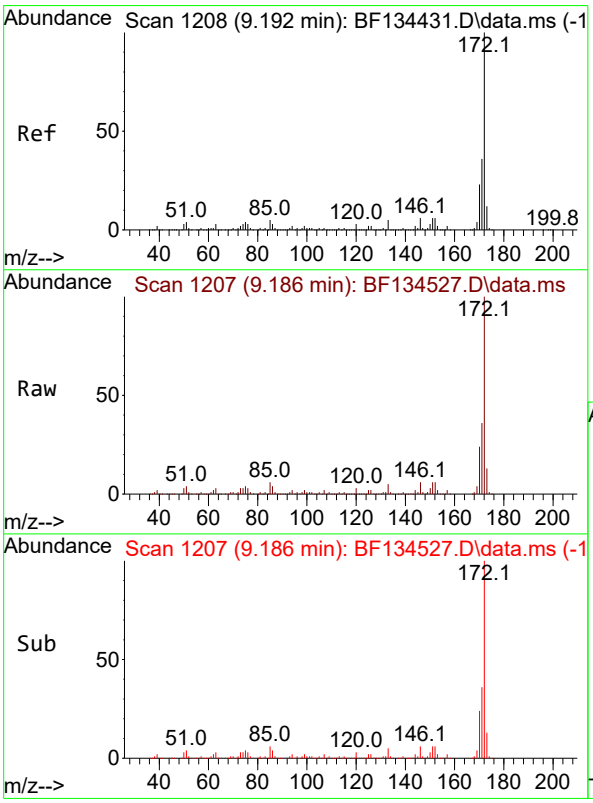
#42
2,4,6-Tribromophenol
Concen: 99.688 ng
RT: 10.663 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF134527.D
Acq: 28 Jul 2023 21:40

Instrument :
BNA_F
ClientSampleId :
SB-02-(3-5)

Tgt Ion:330 Resp: 188719

Ion	Ratio	Lower	Upper
330	100		
332	95.2	78.8	118.2
141	28.6	25.4	38.2

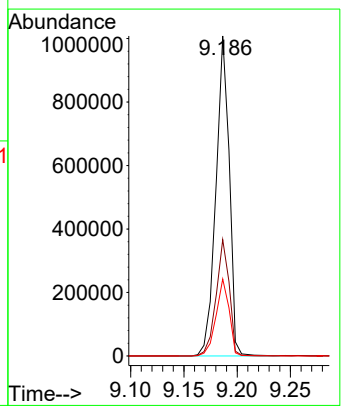


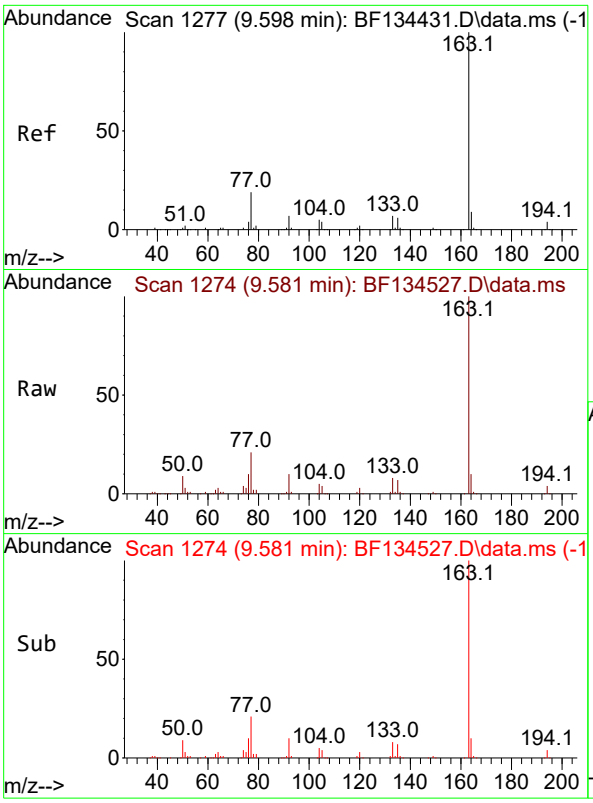


#45
2-Fluorobiphenyl
Concen: 86.605 ng
RT: 9.186 min Scan# 1207
Delta R.T. 0.006 min
Lab File: BF134527.D
Acq: 28 Jul 2023 21:40

Tgt Ion:172 Resp: 878982

Ion	Ratio	Lower	Upper
172	100		
171	36.3	28.8	43.2
170	24.1	18.7	28.1



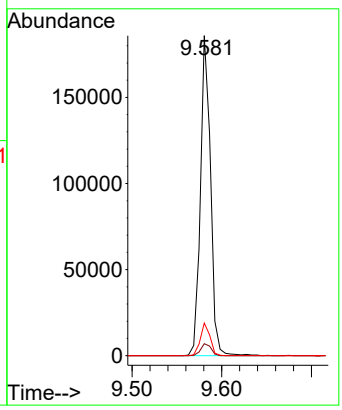


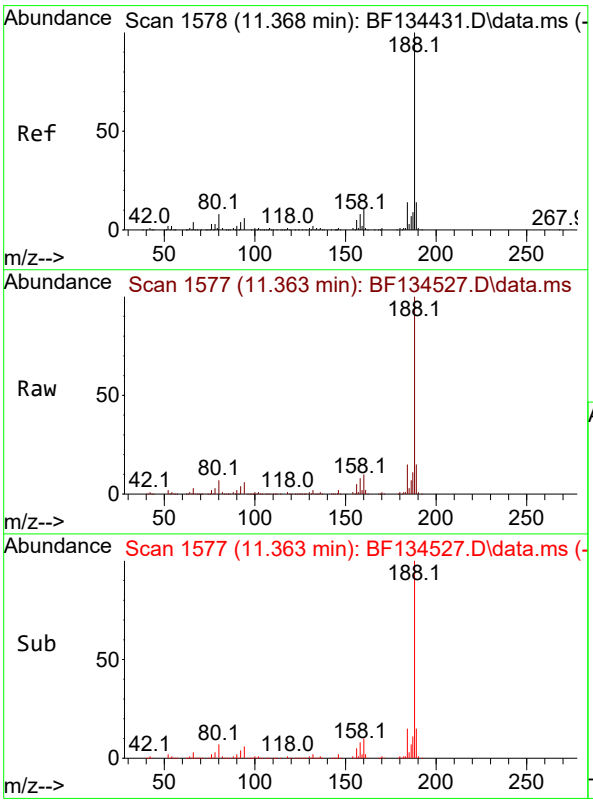
#50
Dimethylphthalate
Concen: 14.715 ng
RT: 9.581 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF134527.D
Acq: 28 Jul 2023 21:40

Instrument :
BNA_F
ClientSampleId :
SB-02-(3-5)

Tgt Ion:163 Resp: 145341

Ion	Ratio	Lower	Upper
163	100		
194	3.8	3.3	4.9
164	10.2	7.5	11.3

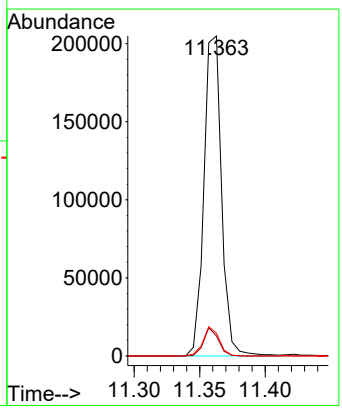


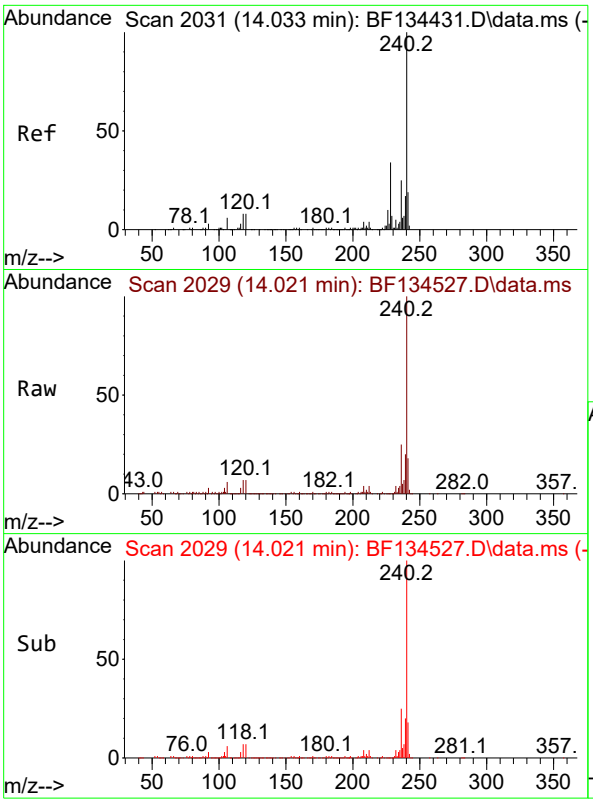


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.363 min Scan# 1577
Delta R.T. 0.006 min
Lab File: BF134527.D
Acq: 28 Jul 2023 21:40

Tgt Ion:188 Resp: 192351

Ion	Ratio	Lower	Upper
188	100		
94	6.2	5.1	7.7
80	7.1	6.6	9.8



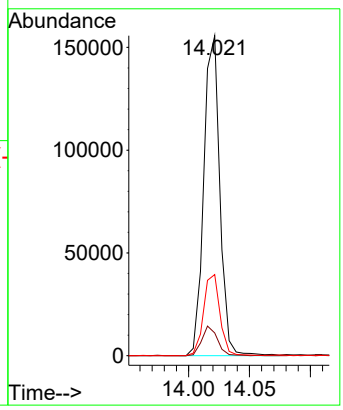


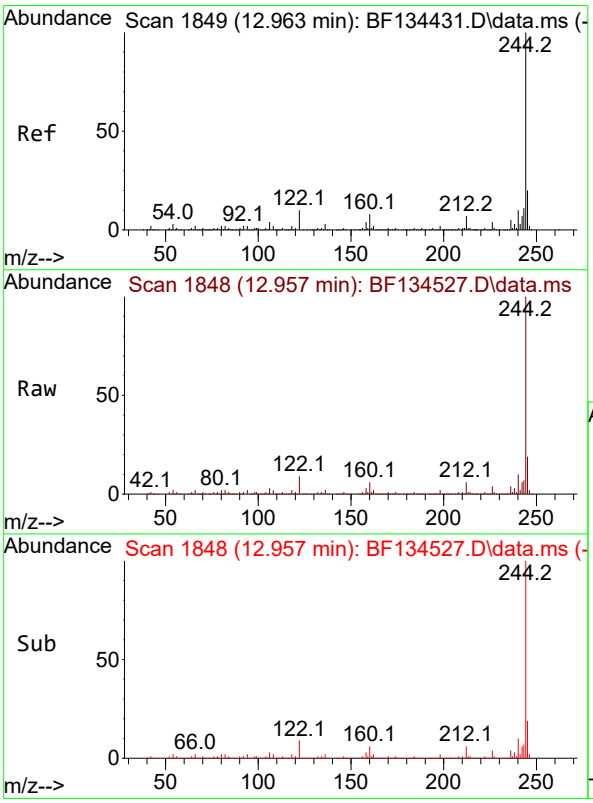
#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.021 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF134527.D
Acq: 28 Jul 2023 21:40

Instrument :
BNA_F
ClientSampleId :
SB-02-(3-5)

Tgt Ion:240 Resp: 143002

Ion	Ratio	Lower	Upper
240	100		
120	7.1	6.6	10.0
236	25.3	20.2	30.2

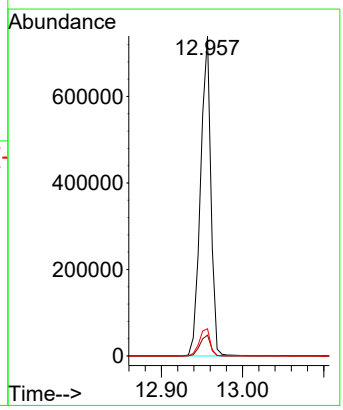


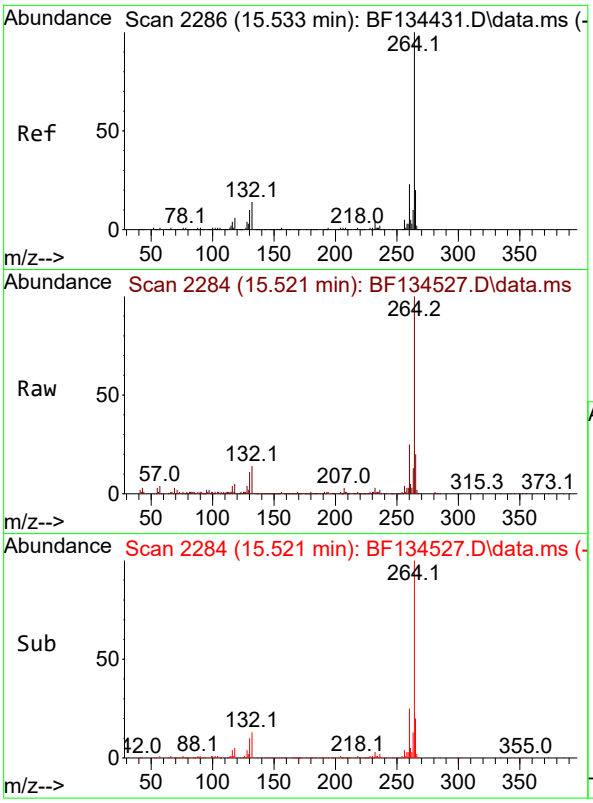


#79
Terphenyl-d14
Concen: 80.003 ng
RT: 12.957 min Scan# 1848
Delta R.T. 0.006 min
Lab File: BF134527.D
Acq: 28 Jul 2023 21:40

Tgt Ion:244 Resp: 655376

Ion	Ratio	Lower	Upper
244	100		
212	6.5	5.6	8.4
122	8.5	8.0	12.0



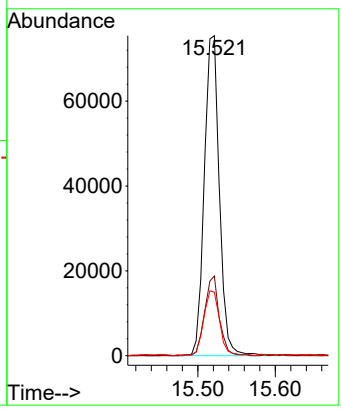


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.521 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF134527.D
Acq: 28 Jul 2023 21:40

Instrument :
BNA_F
ClientSampleId :
SB-02-(3-5)

Tgt Ion:264 Resp: 101757

Ion	Ratio	Lower	Upper
264	100		
260	24.9	18.4	27.6
265	19.8	15.8	23.8



Sample Results: **BF134527.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF072823\
Data File : BF134527.D
Acq On : 28 Jul 2023 21:40
Operator : CG\JU
Sample : 03645-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-02-(3-5)

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF072423.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF134527.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.128	3	7	15	rVB	414694	524373	20.51%	3.371%
2	5.481	572	577	594	rBV	2205931	2255159	88.19%	14.497%
3	6.481	742	747	750	rBV	2118108	2224415	86.99%	14.300%
4	6.828	803	806	821	rVB	512374	497980	19.47%	3.201%
5	7.398	898	903	906	rBV	1449823	1366523	53.44%	8.785%
6	8.110	1020	1024	1033	rBV	719651	616370	24.10%	3.962%
7	9.186	1201	1207	1210	rBV	2991202	2557119	100.00%	16.438%
8	9.581	1271	1274	1278	rBV	423196	318844	12.47%	2.050%
9	9.863	1319	1322	1326	rBV	652215	581713	22.75%	3.740%
10	10.663	1454	1458	1461	rBV	1539479	1301520	50.90%	8.367%
11	11.357	1573	1576	1580	rBV	491467	460495	18.01%	2.960%
12	11.886	1663	1666	1675	rBV2	181312	196280	7.68%	1.262%
13	12.680	1798	1801	1808	rBV3	22724	33988	1.33%	0.218%
14	12.957	1843	1848	1851	rBV	1849452	1674410	65.48%	10.764%
15	13.851	1996	2000	2011	rBV	102734	190866	7.46%	1.227%
16	14.021	2025	2029	2032	rBV	418304	411445	16.09%	2.645%
17	14.168	2052	2054	2061	rVB	23918	31249	1.22%	0.201%
18	14.474	2103	2106	2109	rBV2	24111	32465	1.27%	0.209%
19	15.515	2279	2283	2293	rVB	206232	280480	10.97%	1.803%

Sum of corrected areas: 15555694

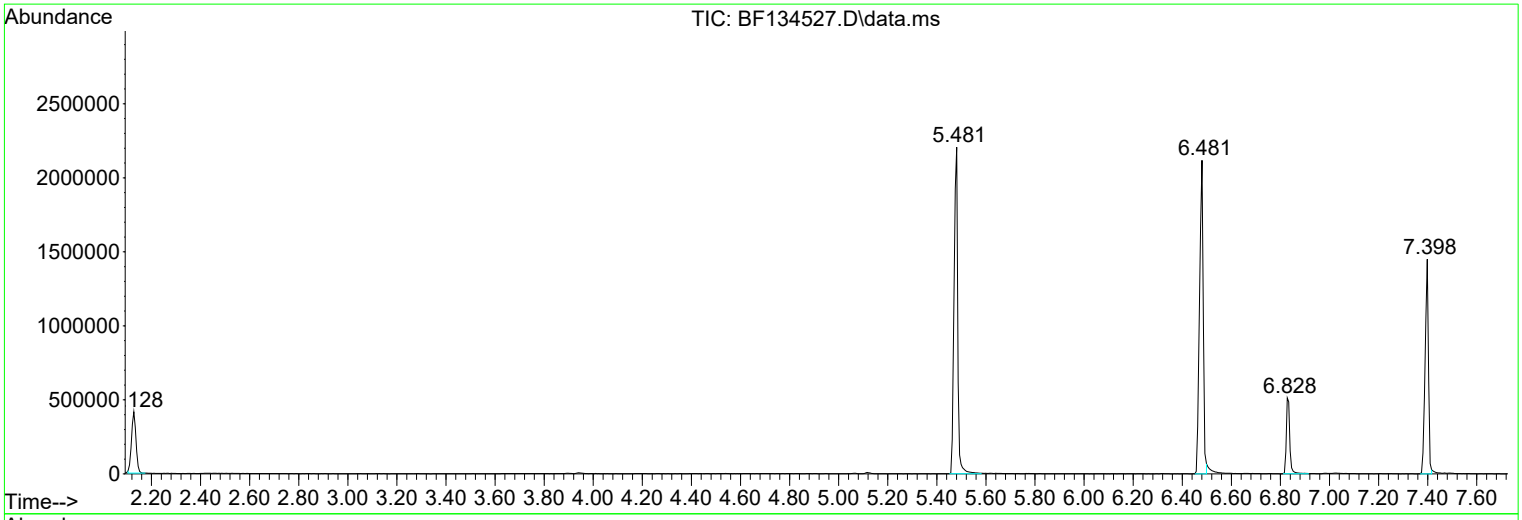
Sample Results: **BF134527.D**

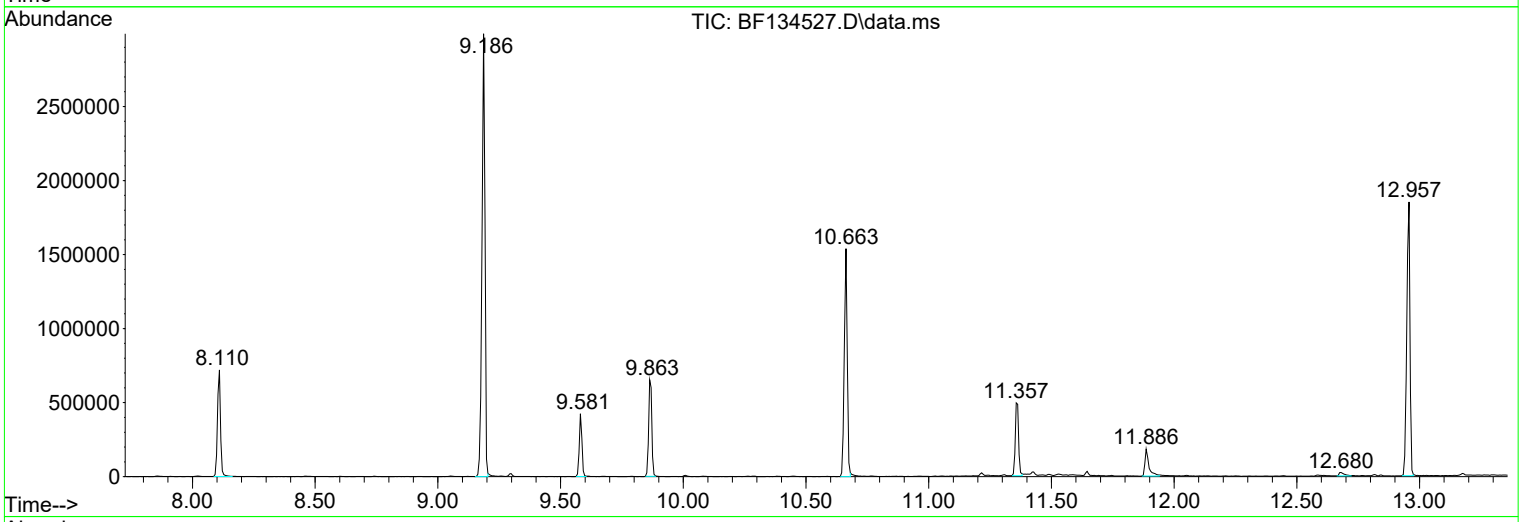
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF072823\
Data File : BF134527.D
Acq On : 28 Jul 2023 21:40
Operator : CG\JU
Sample : 03645-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

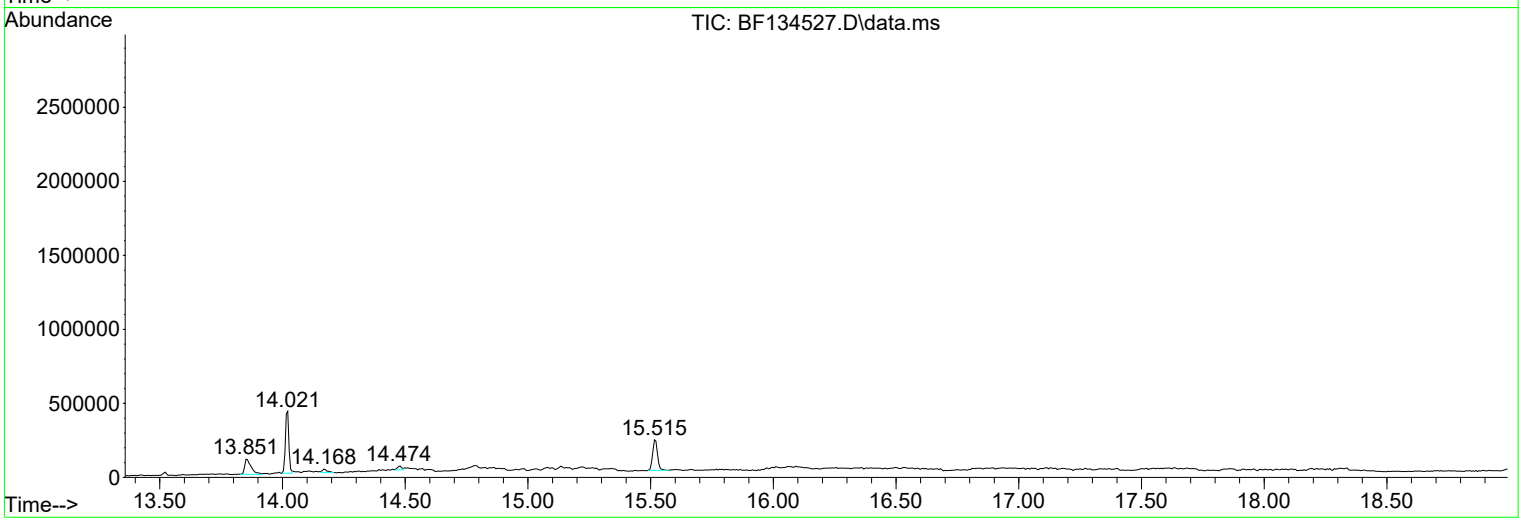
Instrument :
BNA_F
ClientSampleId :
SB-02-(3-5)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF072423.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF072823\
Data File : BF134527.D
Acq On : 28 Jul 2023 21:40
Operator : CG\JU
Sample : 03645-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-02-(3-5)

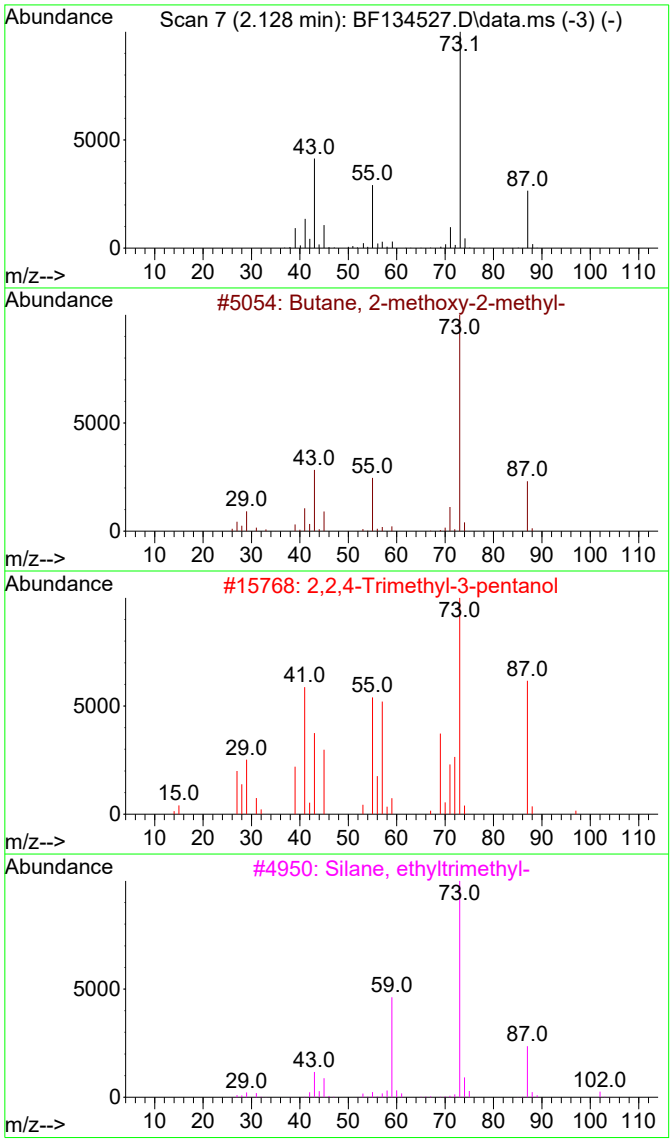
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF072423.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

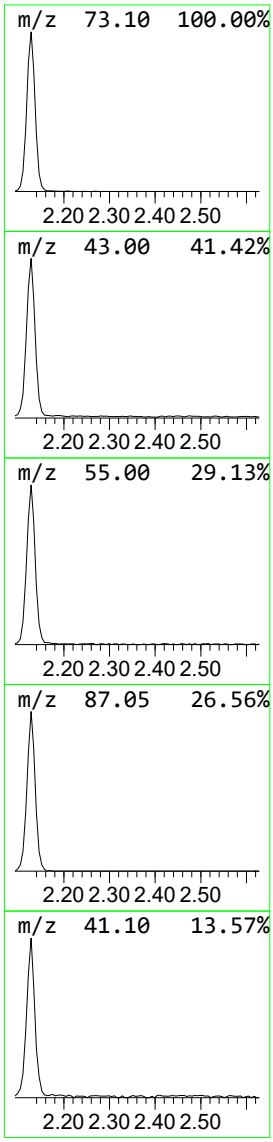
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.128	21.06 ng	524373	1,4-Dichlorobenzene-d4	6.834

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	83
2	2,2,4-Trimethyl-3-pentanol	130	C8H18O	005162-48-1	40
3	Silane, ethyltrimethyl-	102	C5H14Si	003439-38-1	36
4	Octanal, 7-methoxy-3,7-dimethyl-	186	C11H22O2	003613-30-7	17
5	1,3-Dioxolane, 2-propyl-	116	C6H12O2	003390-13-4	17





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF072823\
Data File : BF134527.D
Acq On : 28 Jul 2023 21:40
Operator : CG\JU
Sample : 03645-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-02-(3-5)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF072423.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

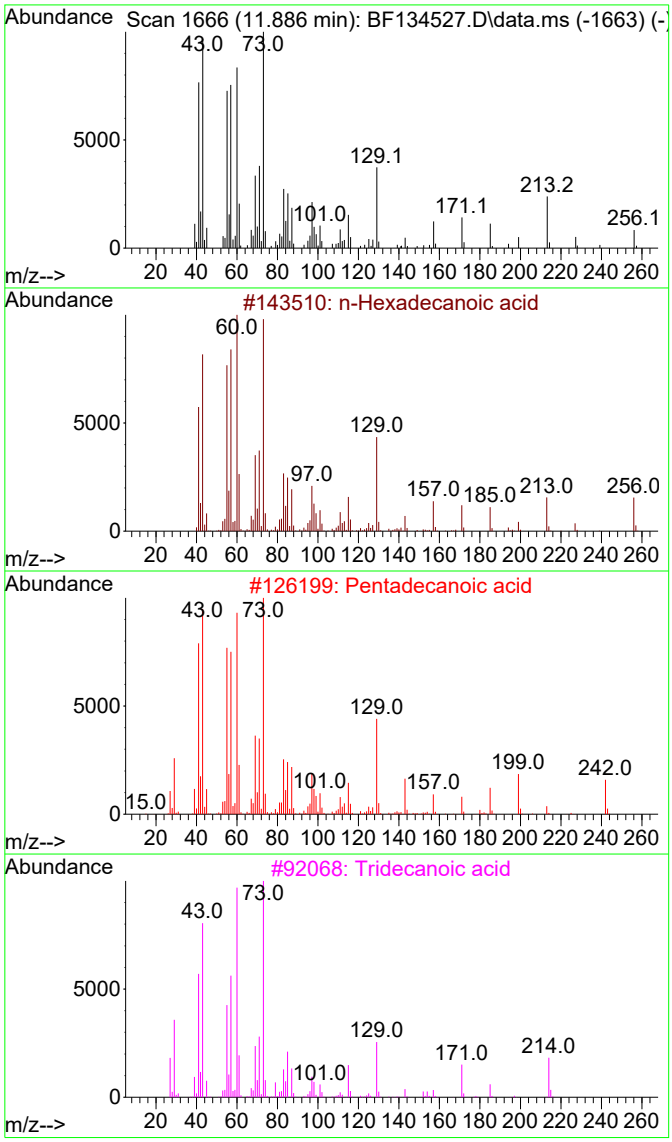
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

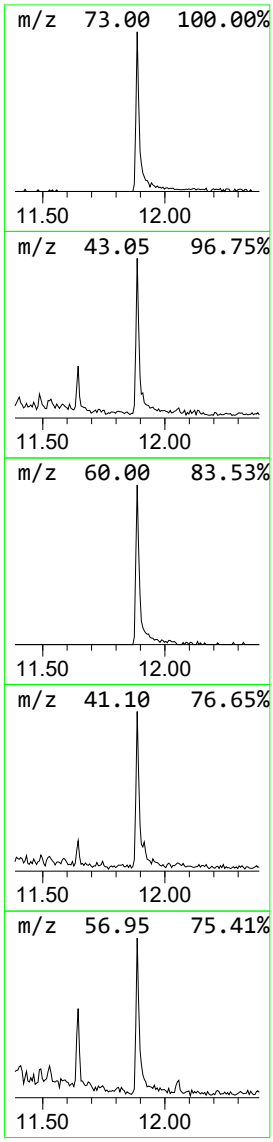
****

Peak Number 2 n-Hexadecanoic acid Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.886	8.52 ng	196280	Phenanthrene-d10	11.363

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	99
2	Pentadecanoic acid	242	C15H30O2	001002-84-2	87
3	Tridecanoic acid	214	C13H26O2	000638-53-9	86
4	Tetradecanoic acid	228	C14H28O2	000544-63-8	81
5	Dodecanoic acid	200	C12H24O2	000143-07-7	59





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF072823\
Data File : BF134527.D
Acq On : 28 Jul 2023 21:40
Operator : CG\JU
Sample : 03645-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-02-(3-5)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF072423.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

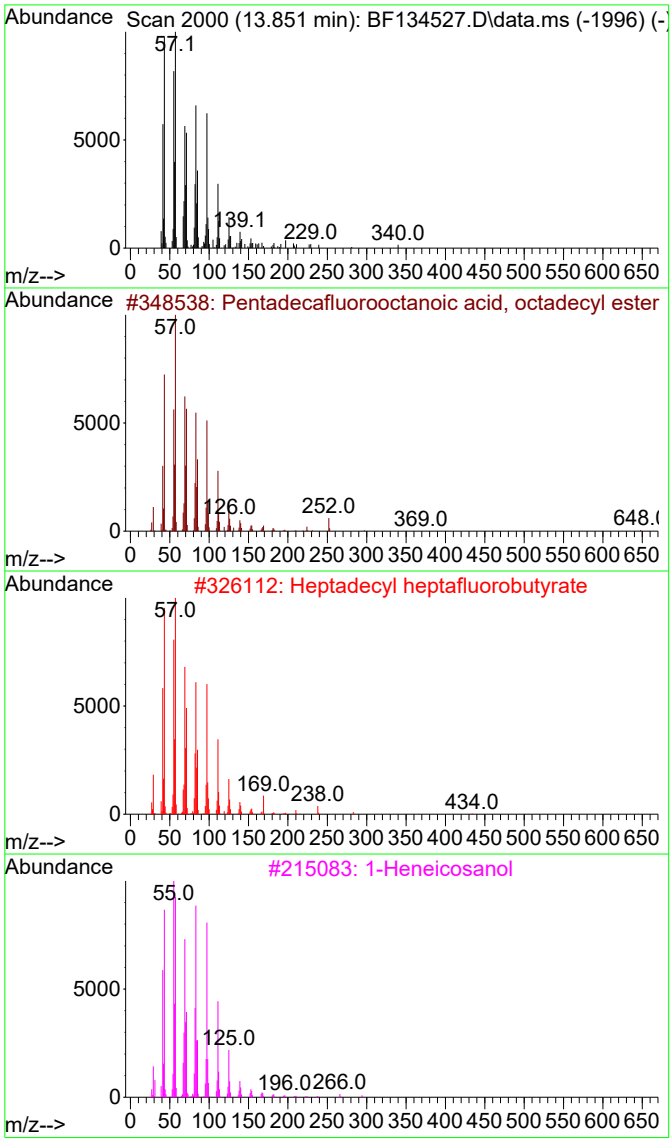
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

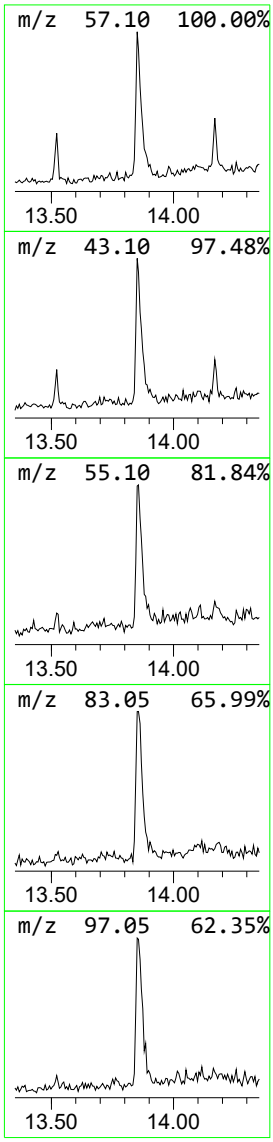
****

Peak Number 3 Pentadecafluorooctanoic aci... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.851	9.28 ng	190866	Chrysene-d12	14.021

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentadecafluorooctanoic acid, oc...	666	C26H37F15O2	1000406-04-8	95
2	Heptadecyl heptafluorobutyrate	452	C21H35F7O2	959085-66-6	94
3	1-Heneicosanol	312	C21H44O	015594-90-8	93
4	Pentafluoropropionic acid, hexad...	388	C19H33F5O2	006222-07-7	91
5	Pentafluoropropionic acid, penta...	374	C18H31F5O2	959092-08-1	91





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF072823\
Data File : BF134527.D
Acq On : 28 Jul 2023 21:40
Operator : CG\JU
Sample : 03645-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-02-(3-5)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF072423.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Butane, 2-metho...	2.128	21.1	ng	524373	1	6.834	497980	20.0
n-Hexadecanoic ...	11.886	8.5	ng	196280	4	11.363	460495	20.0
Pentadecafluoro...	13.851	9.3	ng	190866	5	14.021	411445	20.0

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/12/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-04-(1-5)	SDG No.:	O3645
Lab Sample ID:	O3645-02	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	91.3
Sample Wt/Vol:	30.08 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF134557.D	1	07/18/23 09:45	08/01/23 19:56	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	360	U	160	360	ug/Kg
108-95-2	Phenol	190	U	81.3	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	190	U	98.1	190	ug/Kg
95-57-8	2-Chlorophenol	190	U	78.7	190	ug/Kg
95-48-7	2-Methylphenol	190	U	120	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	190	U	110	190	ug/Kg
98-86-2	Acetophenone	190	U	94.7	190	ug/Kg
65794-96-9	3+4-Methylphenols	360	U	120	360	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	87.4	U	64.5	87.4	ug/Kg
67-72-1	Hexachloroethane	190	U	80.4	190	ug/Kg
98-95-3	Nitrobenzene	190	U	82.1	190	ug/Kg
78-59-1	Isophorone	190	U	74.4	190	ug/Kg
88-75-5	2-Nitrophenol	190	U	100	190	ug/Kg
105-67-9	2,4-Dimethylphenol	190	U	110	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	190	U	120	190	ug/Kg
120-83-2	2,4-Dichlorophenol	190	U	85.3	190	ug/Kg
91-20-3	Naphthalene	190	U	88.9	190	ug/Kg
106-47-8	4-Chloroaniline	190	U	110	190	ug/Kg
87-68-3	Hexachlorobutadiene	190	U	91.8	190	ug/Kg
105-60-2	Caprolactam	360	U	130	360	ug/Kg
59-50-7	4-Chloro-3-methylphenol	190	U	90.1	190	ug/Kg
91-57-6	2-Methylnaphthalene	190	U	100	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	360	U	230	360	ug/Kg
88-06-2	2,4,6-Trichlorophenol	190	U	84.2	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	190	U	96.0	190	ug/Kg
92-52-4	1,1-Biphenyl	190	U	99.7	190	ug/Kg
91-58-7	2-Chloronaphthalene	190	U	92.4	190	ug/Kg
88-74-4	2-Nitroaniline	190	U	110	190	ug/Kg
131-11-3	Dimethylphthalate	150	J	97.1	190	ug/Kg
208-96-8	Acenaphthylene	190	U	96.6	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	190	U	98.3	190	ug/Kg

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/12/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-04-(1-5)	SDG No.:	O3645
Lab Sample ID:	O3645-02	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	91.3
Sample Wt/Vol:	30.08 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF134557.D	1	07/18/23 09:45	08/01/23 19:56	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
99-09-2	3-Nitroaniline	190	U	100	190	ug/Kg
83-32-9	Acenaphthene	190	U	87.7	190	ug/Kg
51-28-5	2,4-Dinitrophenol	360	U	200	360	ug/Kg
100-02-7	4-Nitrophenol	360	U	120	360	ug/Kg
132-64-9	Dibenzofuran	190	U	84.0	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	190	U	110	190	ug/Kg
84-66-2	Diethylphthalate	190	U	93.8	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	190	U	98.8	190	ug/Kg
86-73-7	Fluorene	190	U	92.6	190	ug/Kg
100-01-6	4-Nitroaniline	190	U	110	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	360	U	95.9	360	ug/Kg
86-30-6	n-Nitrosodiphenylamine	190	U	100	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	190	U	110	190	ug/Kg
118-74-1	Hexachlorobenzene	190	U	110	190	ug/Kg
1912-24-9	Atrazine	190	U	100	190	ug/Kg
87-86-5	Pentachlorophenol	360	U	120	360	ug/Kg
85-01-8	Phenanthrene	120	J	100	190	ug/Kg
120-12-7	Anthracene	190	U	110	190	ug/Kg
86-74-8	Carbazole	190	U	92.7	190	ug/Kg
84-74-2	Di-n-butylphthalate	190	U	110	190	ug/Kg
206-44-0	Fluoranthene	150	J	100	190	ug/Kg
129-00-0	Pyrene	140	J	91.4	190	ug/Kg
85-68-7	Butylbenzylphthalate	190	U	110	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	360	U	180	360	ug/Kg
56-55-3	Benzo(a)anthracene	190	U	91.7	190	ug/Kg
218-01-9	Chrysene	190	U	94.8	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	190	U	130	190	ug/Kg
117-84-0	Di-n-octyl phthalate	360	U	130	360	ug/Kg
205-99-2	Benzo(b)fluoranthene	130	J	87.7	190	ug/Kg
207-08-9	Benzo(k)fluoranthene	190	U	96.2	190	ug/Kg
50-32-8	Benzo(a)pyrene	190	U	100	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	190	U	120	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	190	U	110	190	ug/Kg

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/12/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-04-(1-5)	SDG No.:	O3645
Lab Sample ID:	O3645-02	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	91.3
Sample Wt/Vol:	30.08 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF134557.D	1	07/18/23 09:45	08/01/23 19:56	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
191-24-2	Benzo(g,h,i)perylene	190	U	100	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	190	U	97.7	190	ug/Kg
123-91-1	1,4-Dioxane	190	U	130	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	190	U	90.6	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	98.7		18 - 112	66%	SPK: 150
13127-88-3	Phenol-d6	101		21 - 104	67%	SPK: 150
4165-60-0	Nitrobenzene-d5	77.6		27 - 109	78%	SPK: 100
321-60-8	2-Fluorobiphenyl	72.3		30 - 103	72%	SPK: 100
118-79-6	2,4,6-Tribromophenol	110		10 - 121	73%	SPK: 150
1718-51-0	Terphenyl-d14	80.3		21 - 107	80%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	205000	6.792			
1146-65-2	Naphthalene-d8	825000	8.069			
15067-26-2	Acenaphthene-d10	411000	9.822			
1517-22-2	Phenanthrene-d10	731000	11.31			
1719-03-5	Chrysene-d12	405000	13.951			
1520-96-3	Perylene-d12	445000	15.409			
TENTATIVE IDENTIFIED COMPOUNDS						
000126-86-3	2,4,7,9-Tetramethyl-5-decyn-4,7-di	130	J		9.27	ug/Kg
000057-10-3	n-Hexadecanoic acid	200	J		11.9	ug/Kg
000057-11-4	Octadecanoic acid	75.4	J		12.6	ug/Kg
074685-30-6	5-Eicosene, (E)-	230	J		13.8	ug/Kg
000192-97-2	Benzo[e]pyrene	75.4	J		15.3	ug/Kg

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

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080123\
Data File : BF134557.D
Acq On : 01 Aug 2023 19:56
Operator : CG\JU
Sample : 03645-02
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 02 02:45:35 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 02 02:20:34 2023
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SB-04-(1-5)

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.792	152	205461	20.000	ng	0.00
21) Naphthalene-d8	8.069	136	825053	20.000	ng	# 0.00
39) Acenaphthene-d10	9.822	164	411202	20.000	ng	0.00
64) Phenanthrene-d10	11.310	188	731340	20.000	ng	# 0.00
76) Chrysene-d12	13.951	240	404523	20.000	ng	#-0.01
86) Perylene-d12	15.409	264	444719	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.422	112	1334501	98.733	ng	0.00
7) Phenol-d6	6.422	99	1743004	100.880	ng	0.00
23) Nitrobenzene-d5	7.351	82	1024388	77.591	ng	0.00
42) 2,4,6-Tribromophenol	10.610	330	461559	110.110	ng	0.00
45) 2-Fluorobiphenyl	9.151	172	1787663	72.284	ng	0.00
79) Terphenyl-d14	12.904	244	1841570	80.254	ng	0.00
Target Compounds						Qvalue
50) Dimethylphthalate	9.539	163	115439	4.119	ng	99
71) Phenanthrene	11.333	178	124814	3.213	ng	97
75) Fluoranthene	12.521	202	168499	4.106	ng	97
78) Pyrene	12.751	202	134768	3.850	ng	98
88) Benzo(b)fluoranthene	14.986	252	94696m	3.491	ng	

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

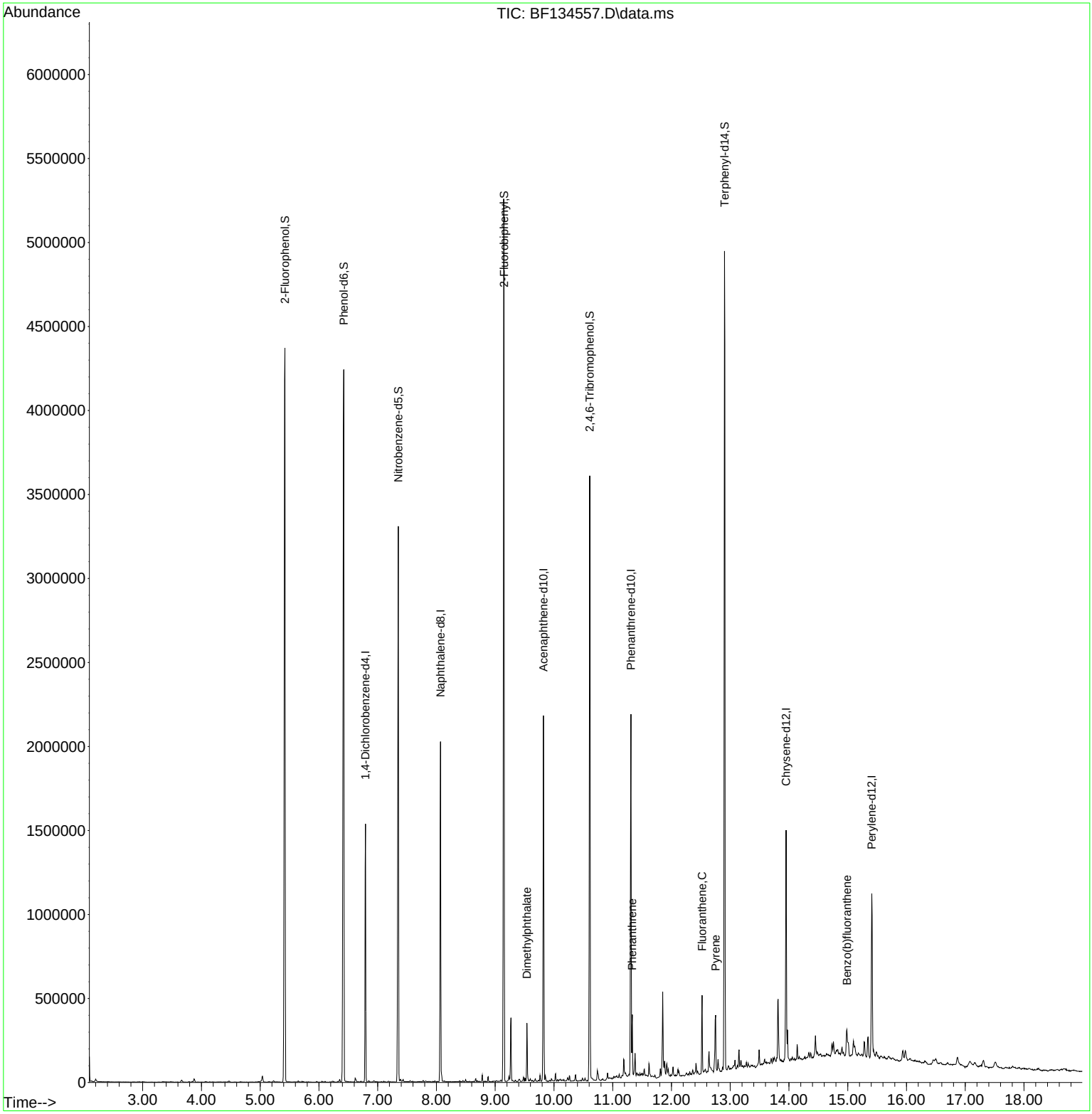
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080123\
Data File : BF134557.D
Acq On : 01 Aug 2023 19:56
Operator : CG\JU
Sample : 03645-02
Misc :
ALS Vial : 12 Sample Multiplier: 1

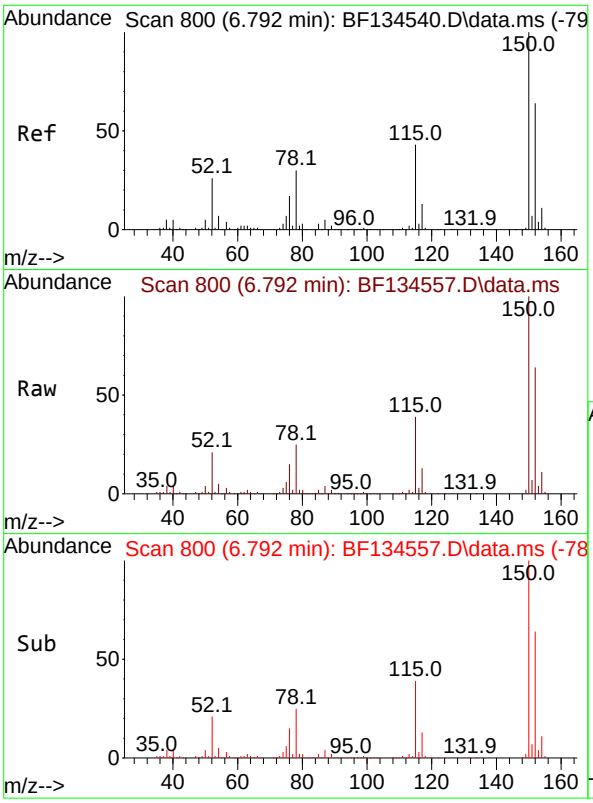
Quant Time: Aug 02 02:45:35 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 02 02:20:34 2023
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SB-04-(1-5)

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

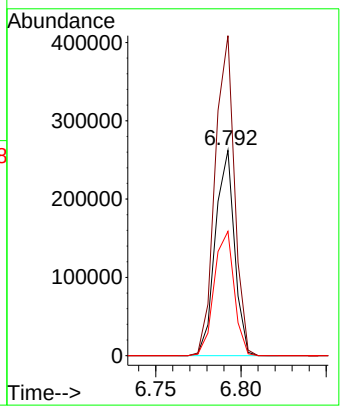




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.792 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF134557.D
Acq: 01 Aug 2023 19:56

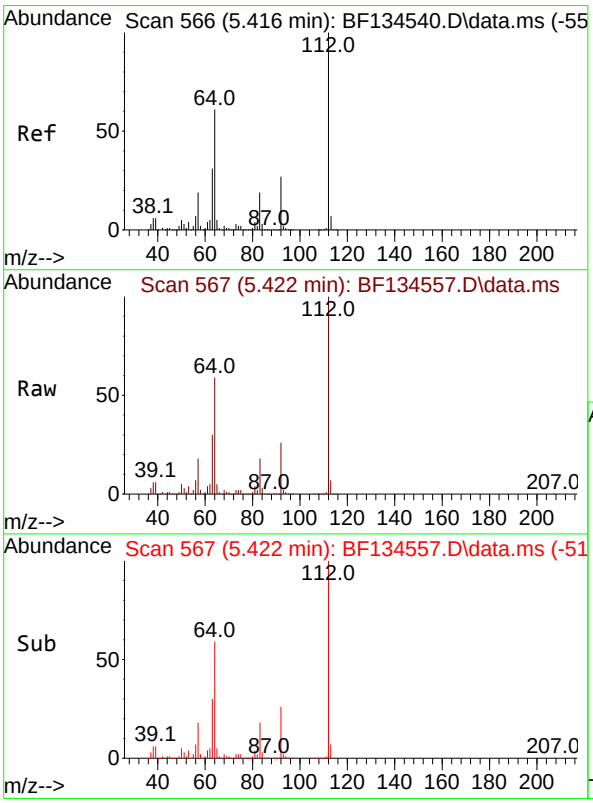
Tgt Ion:152 Resp: 20546

Ion	Ratio	Lower	Upper
152	100		
150	155.9	128.3	192.5
115	60.6	52.4	78.6



Instrument :
BNA_F
ClientSampleId :
SB-04-(1-5)

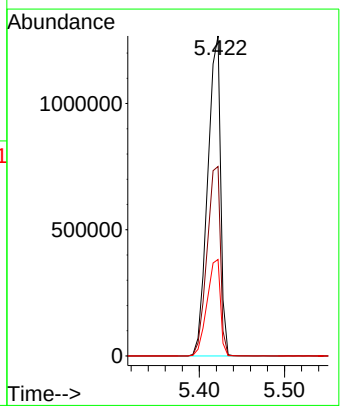
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

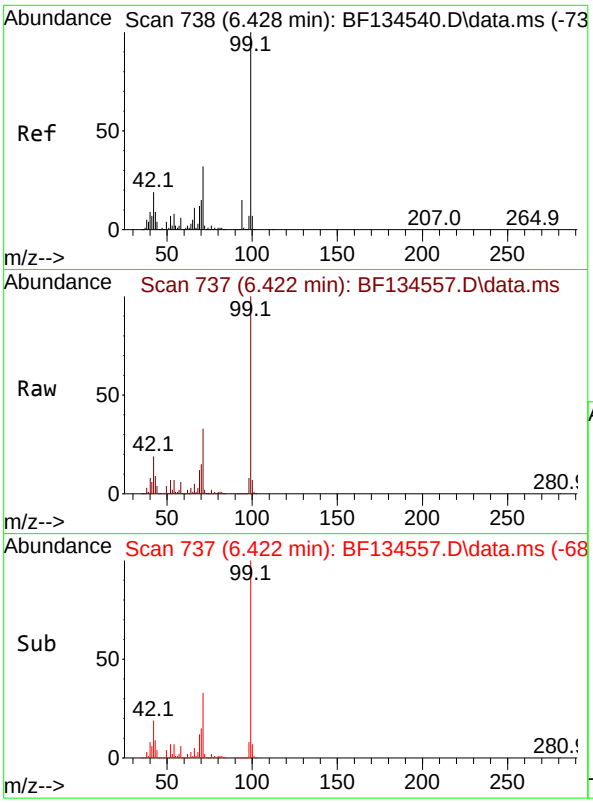


#5
2-Fluorophenol
Concen: 98.733 ng
RT: 5.422 min Scan# 567
Delta R.T. 0.006 min
Lab File: BF134557.D
Acq: 01 Aug 2023 19:56

Tgt Ion:112 Resp: 1334501

Ion	Ratio	Lower	Upper
112	100		
64	59.2	44.9	67.3
63	30.1	25.4	38.0

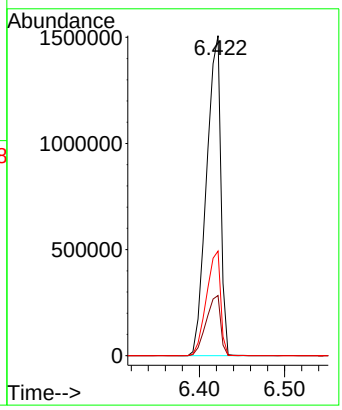




#7
Phenol-d6
Concen: 100.880 ng
RT: 6.422 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF134557.D
Acq: 01 Aug 2023 19:56

Tgt Ion: 99 Resp: 174300

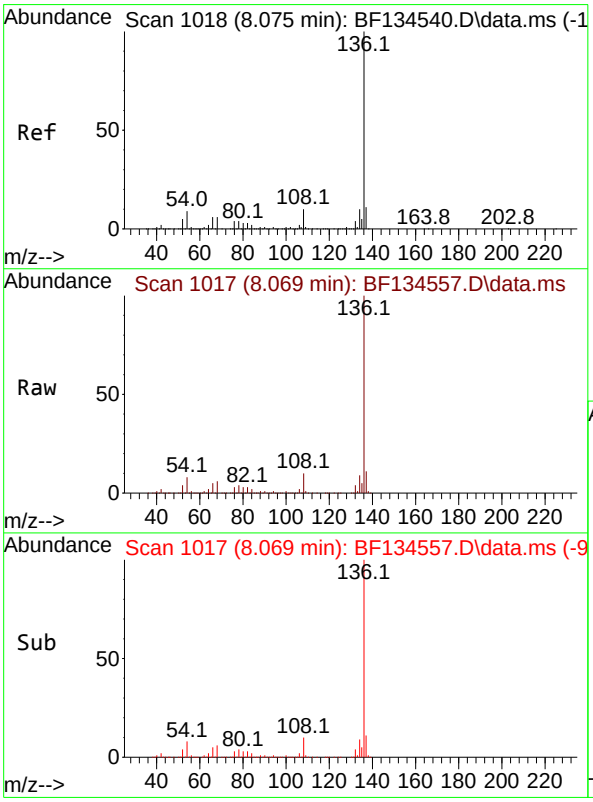
Ion	Ratio	Lower	Upper
99	100		
42	18.8	18.7	28.1
71	32.7	36.4	54.6#



Instrument :
BNA_F
ClientSampleId :
SB-04-(1-5)

Manual Integrations
APPROVED

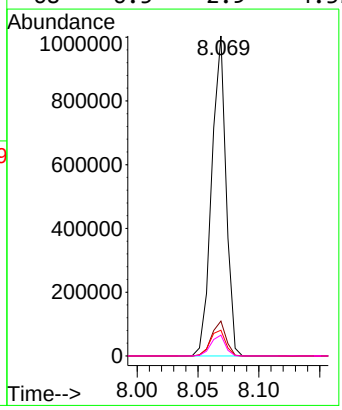
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

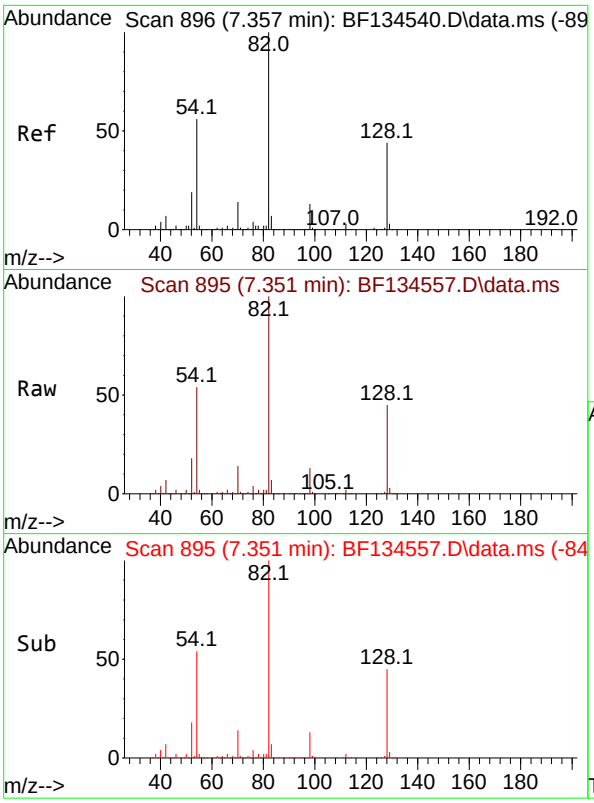


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.069 min Scan# 1017
Delta R.T. -0.006 min
Lab File: BF134557.D
Acq: 01 Aug 2023 19:56

Tgt Ion:136 Resp: 825053

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.4	12.6
54	8.1	5.2	7.8#
68	6.5	2.9	4.3#

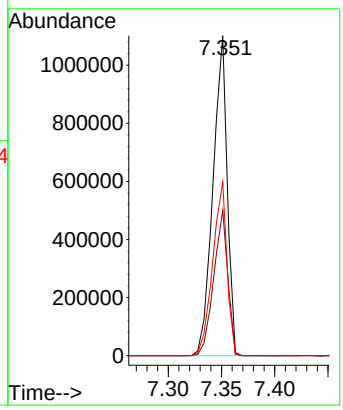




#23
Nitrobenzene-d5
Concen: 77.591 ng
RT: 7.351 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF134557.D
Acq: 01 Aug 2023 19:56

Tgt Ion: 82 Resp: 102438

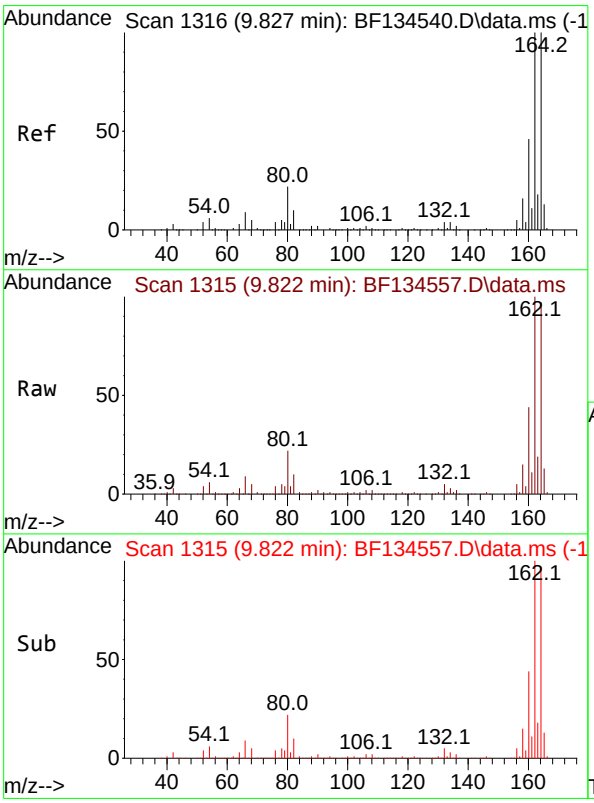
Ion	Ratio	Lower	Upper
82	100		
128	45.4	34.3	51.5
54	54.2	43.8	65.6



Instrument :
BNA_F
ClientSampleId :
SB-04-(1-5)

Manual Integrations
APPROVED

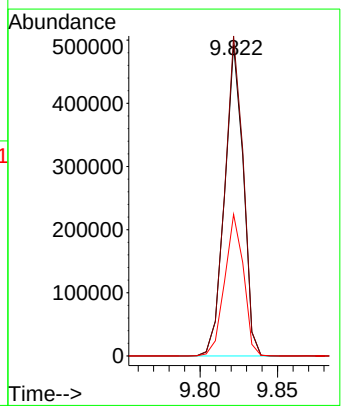
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

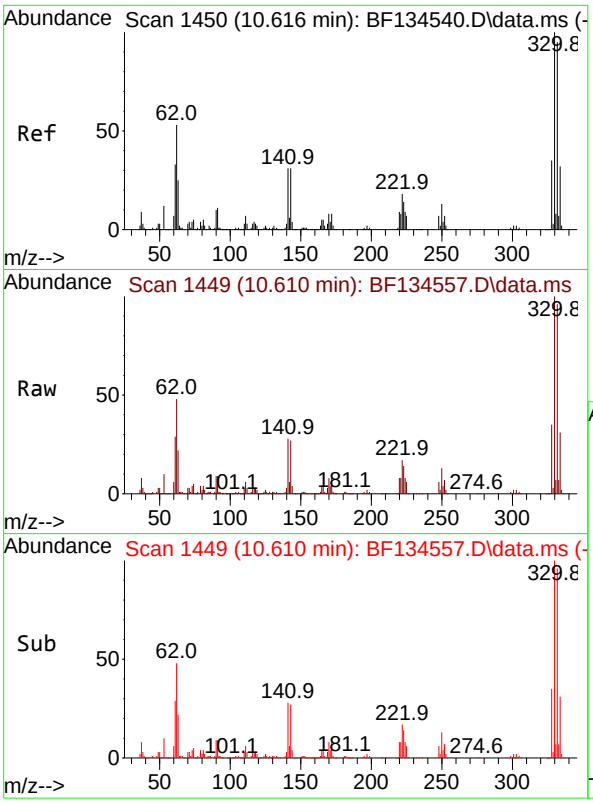


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.822 min Scan# 1315
Delta R.T. -0.006 min
Lab File: BF134557.D
Acq: 01 Aug 2023 19:56

Tgt Ion:164 Resp: 411202

Ion	Ratio	Lower	Upper
164	100		
162	102.8	82.6	123.8
160	45.5	37.2	55.8





#42
2,4,6-Tribromophenol
Concen: 110.110 ng
RT: 10.610 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF134557.D
Acq: 01 Aug 2023 19:56

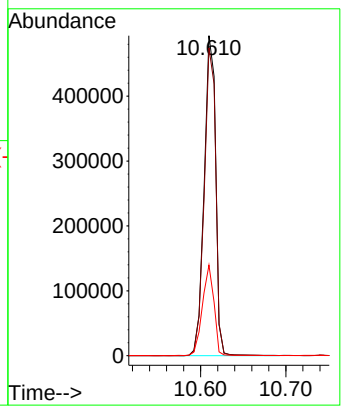
Tgt Ion:330 Resp: 46155

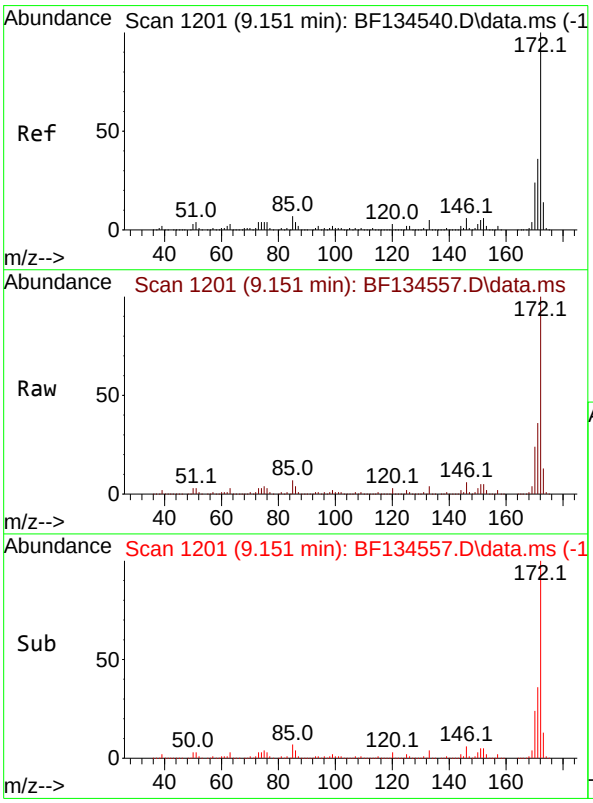
Ion	Ratio	Lower	Upper
330	100		
332	96.5	78.8	118.2
141	28.6	25.4	38.2

Instrument :
BNA_F
ClientSampleId :
SB-04-(1-5)

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

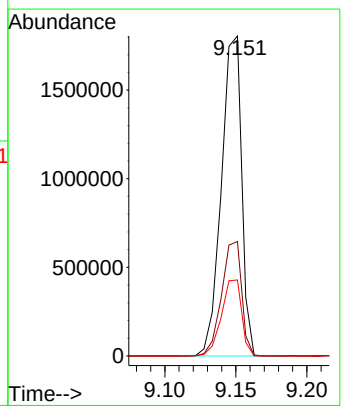


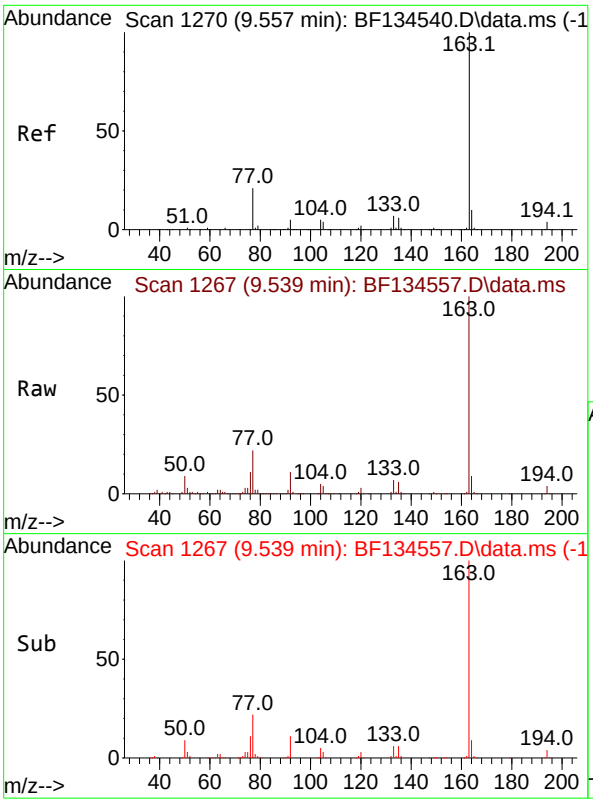


#45
2-Fluorobiphenyl
Concen: 72.284 ng
RT: 9.151 min Scan# 1201
Delta R.T. 0.000 min
Lab File: BF134557.D
Acq: 01 Aug 2023 19:56

Tgt Ion:172 Resp: 1787663

Ion	Ratio	Lower	Upper
172	100		
171	35.8	28.8	43.2
170	23.8	18.7	28.1

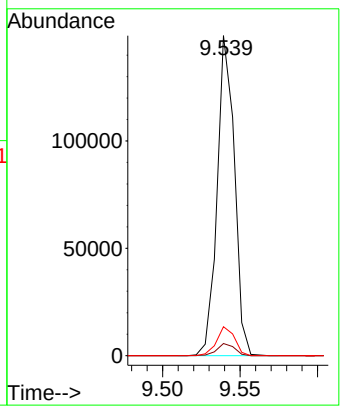




#50
Dimethylphthalate
Concen: 4.119 ng
RT: 9.539 min Scan# 1
Delta R.T. -0.018 min
Lab File: BF134557.D
Acq: 01 Aug 2023 19:56

Tgt Ion:163 Resp: 11543

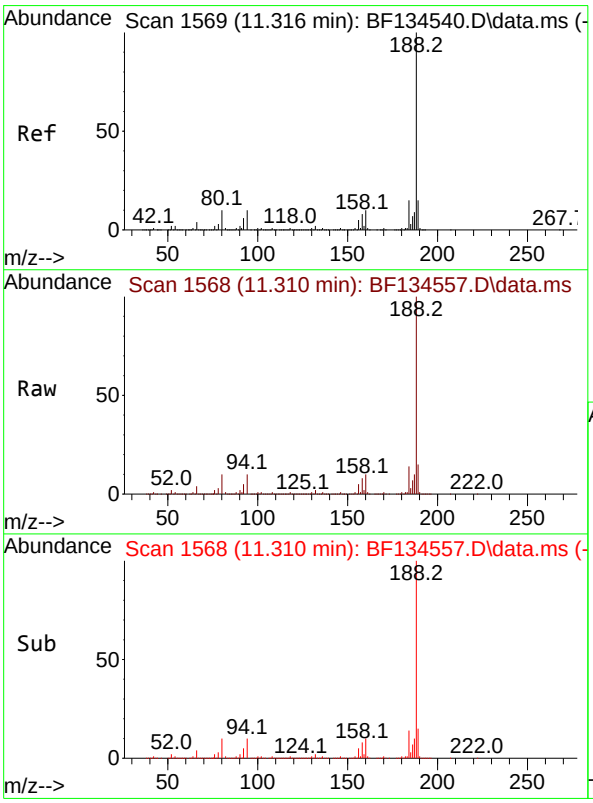
Ion	Ratio	Lower	Upper
163	100		
194	3.8	3.3	4.9
164	9.1	7.5	11.3



Instrument :
BNA_F
ClientSampleId :
SB-04-(1-5)

Manual Integrations
APPROVED

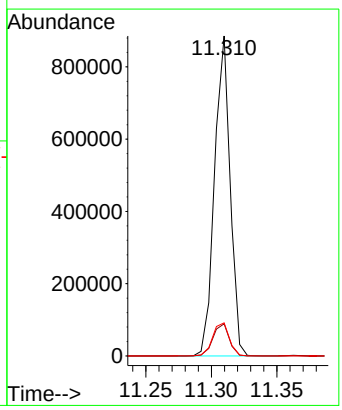
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

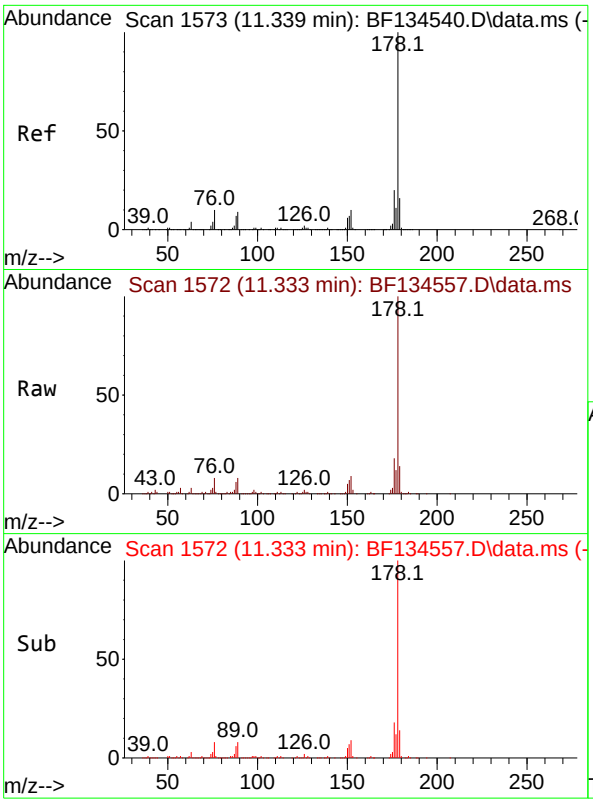


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.310 min Scan# 1568
Delta R.T. -0.006 min
Lab File: BF134557.D
Acq: 01 Aug 2023 19:56

Tgt Ion:188 Resp: 731340

Ion	Ratio	Lower	Upper
188	100		
94	10.0	5.1	7.7#
80	10.4	6.6	9.8#

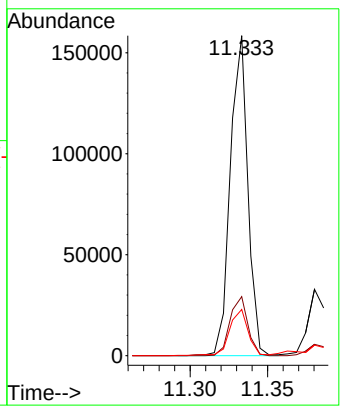




#71
Phenanthrene
Concen: 3.213 ng
RT: 11.333 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF134557.D
Acq: 01 Aug 2023 19:56

Tgt Ion:178 Resp: 12481

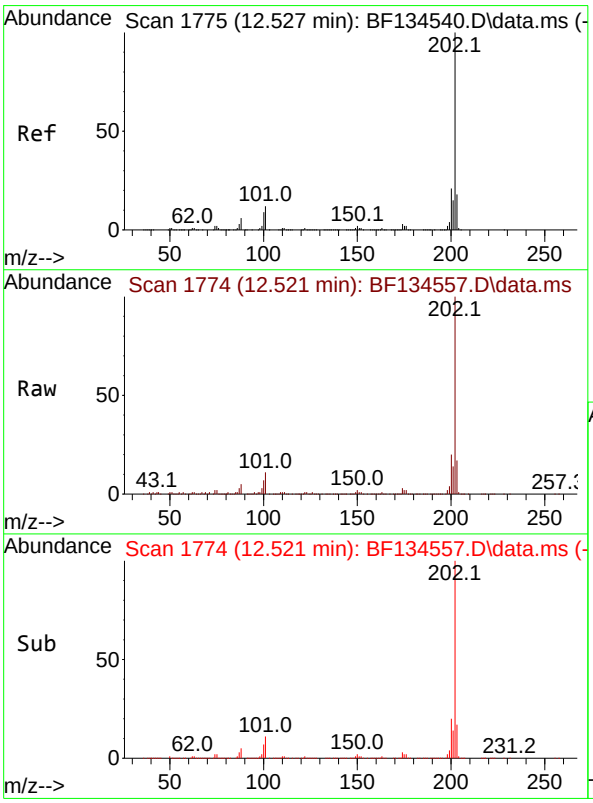
Ion	Ratio	Lower	Upper
178	100		
176	18.5	15.8	23.6
179	14.5	12.7	19.1



Instrument :
BNA_F
ClientSampleId :
SB-04-(1-5)

Manual Integrations
APPROVED

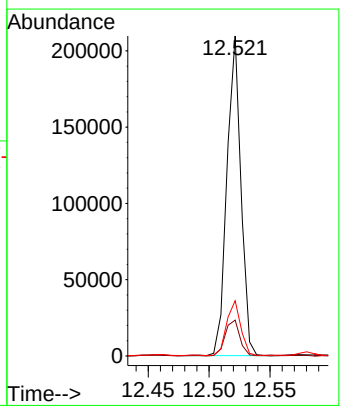
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

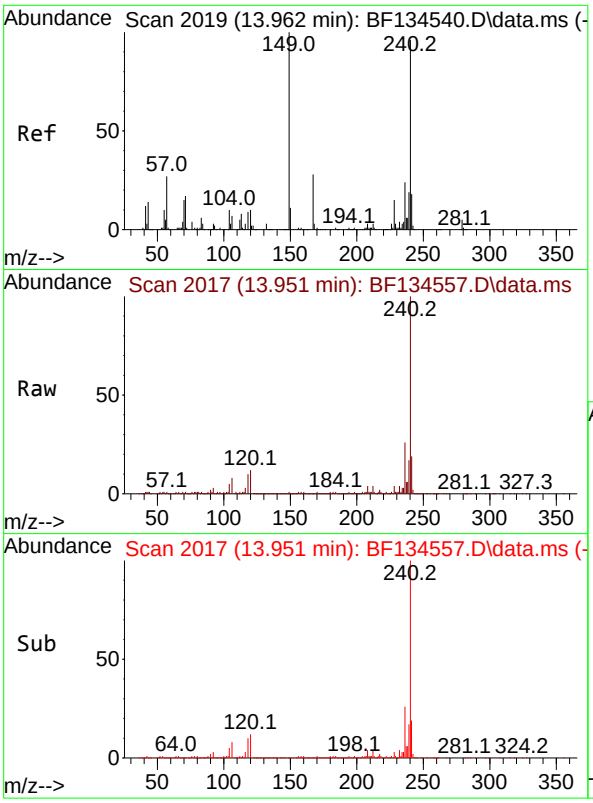


#75
Fluoranthene
Concen: 4.106 ng
RT: 12.521 min Scan# 1774
Delta R.T. -0.006 min
Lab File: BF134557.D
Acq: 01 Aug 2023 19:56

Tgt Ion:202 Resp: 168499

Ion	Ratio	Lower	Upper
202	100		
101	11.2	0.0	28.5
203	17.3	0.0	37.5

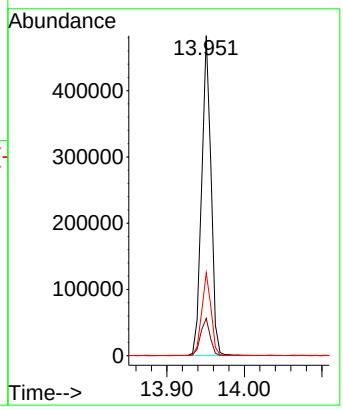




#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.951 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF134557.D
Acq: 01 Aug 2023 19:56

Tgt Ion:240 Resp: 40452

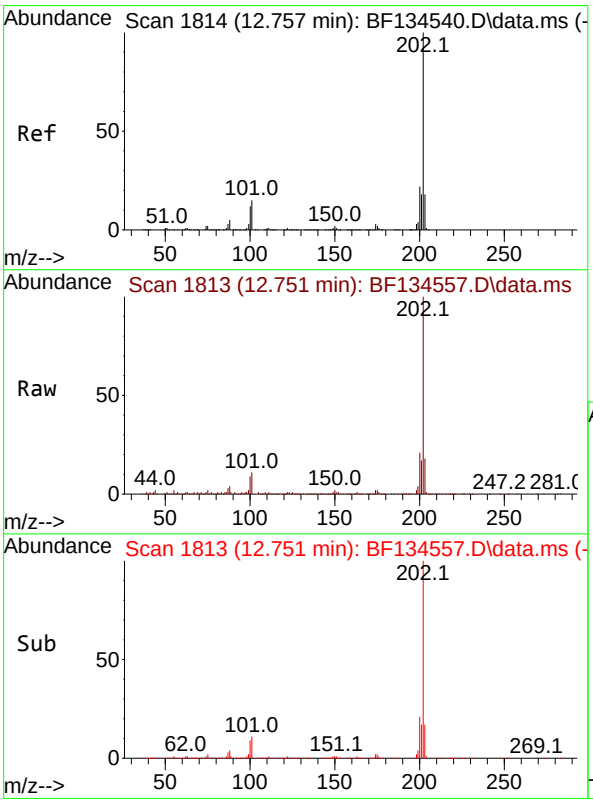
Ion	Ratio	Lower	Upper
240	100		
120	11.7	6.6	10.0
236	25.9	20.2	30.2



Instrument :
BNA_F
ClientSampleId :
SB-04-(1-5)

Manual Integrations
APPROVED

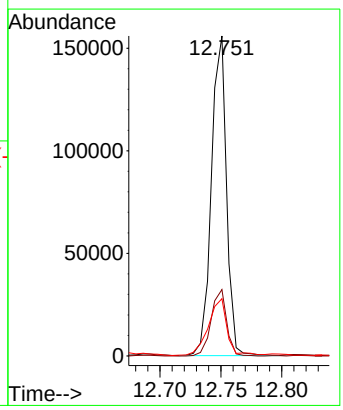
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

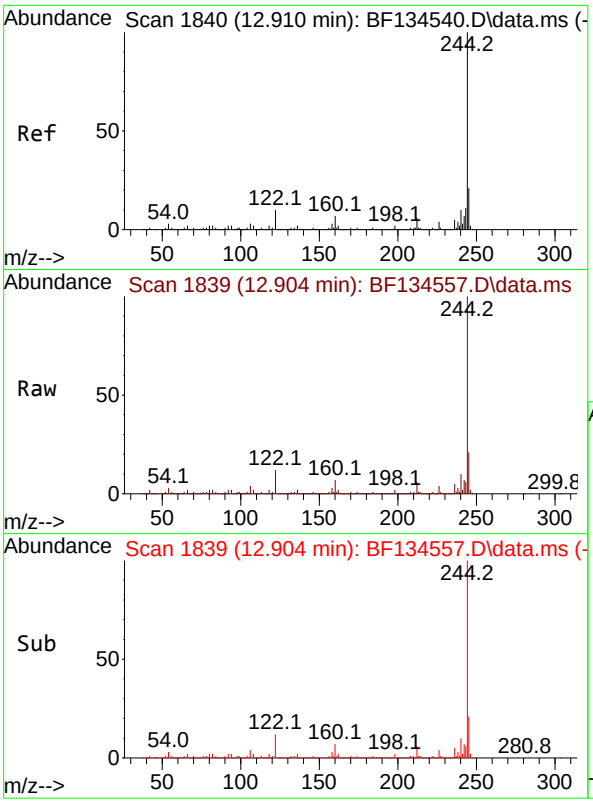


#78
Pyrene
Concen: 3.850 ng
RT: 12.751 min Scan# 1813
Delta R.T. -0.006 min
Lab File: BF134557.D
Acq: 01 Aug 2023 19:56

Tgt Ion:202 Resp: 134768

Ion	Ratio	Lower	Upper
202	100		
200	20.8	15.8	23.8
203	17.9	13.5	20.3

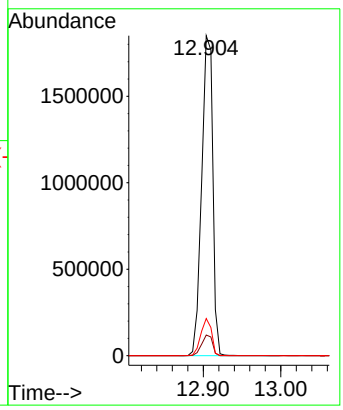




#79
Terphenyl-d14
Concen: 80.254 ng
RT: 12.904 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF134557.D
Acq: 01 Aug 2023 19:56

Tgt Ion:244 Resp: 184157

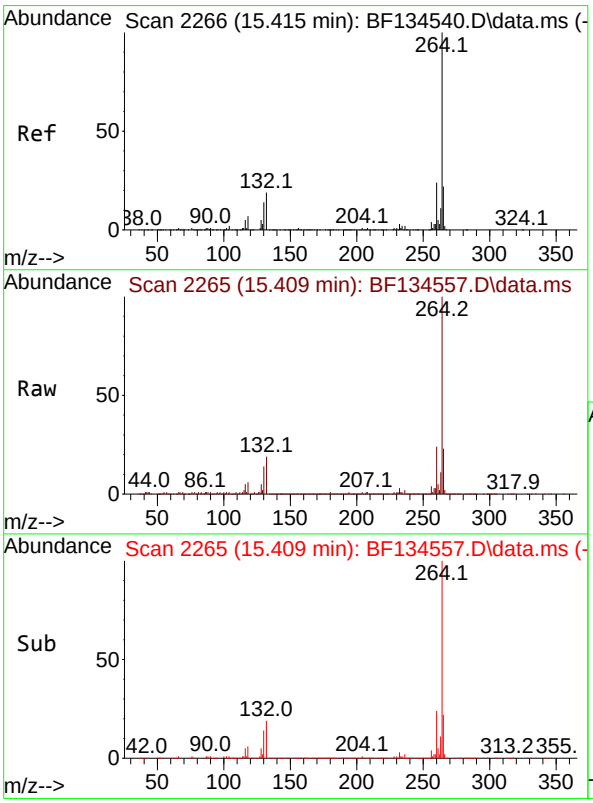
Ion	Ratio	Lower	Upper
244	100		
212	6.4	5.6	8.4
122	11.6	8.0	12.0



Instrument :
BNA_F
ClientSampleId :
SB-04-(1-5)

Manual Integrations
APPROVED

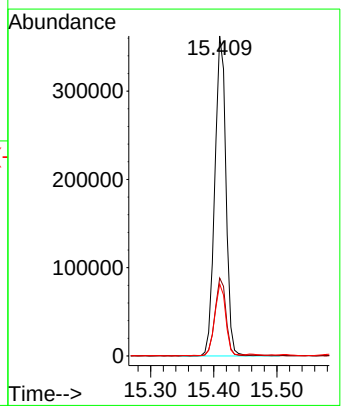
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

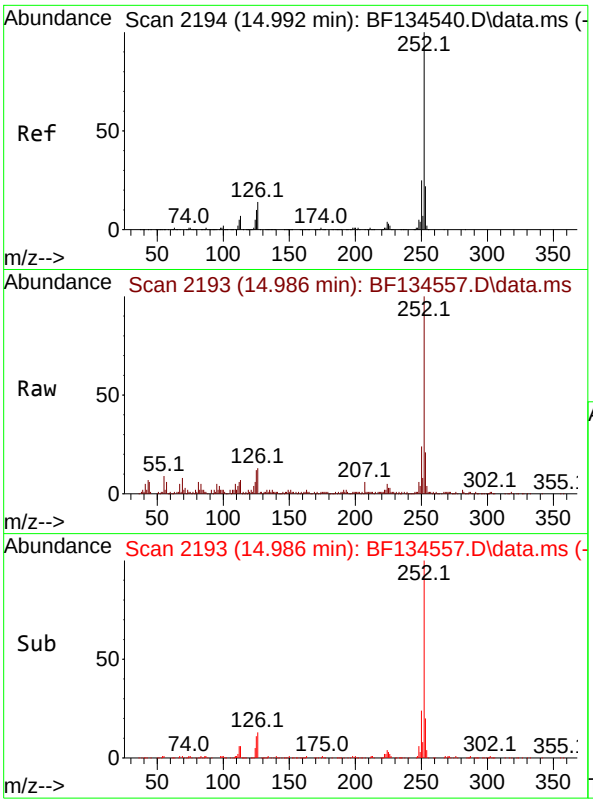


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.409 min Scan# 2265
Delta R.T. -0.006 min
Lab File: BF134557.D
Acq: 01 Aug 2023 19:56

Tgt Ion:264 Resp: 444719

Ion	Ratio	Lower	Upper
264	100		
260	24.4	18.4	27.6
265	22.5	15.8	23.8

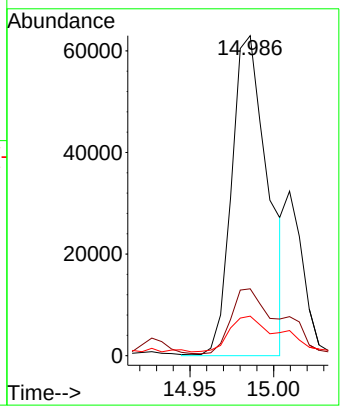




#88
Benzo(b)fluoranthene
Concen: 3.491 ng m
RT: 14.986 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF134557.D
Acq: 01 Aug 2023 19:56

Tgt Ion:252 Resp: 9469

Ion	Ratio	Lower	Upper
252	100		
253	20.9	17.3	25.9
125	12.3	6.0	9.0#



Instrument :
BNA_F
ClientSampleId :
SB-04-(1-5)

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080123\
Data File : BF134557.D
Acq On : 01 Aug 2023 19:56
Operator : CG\JU
Sample : 03645-02
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-04-(1-5)

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF134557.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.040	492	502	508	rVB2	35743	58451	1.11%	0.145%
2	5.422	561	567	570	rBV	4364823	4711196	89.43%	11.723%
3	6.422	730	737	740	rBV	4240654	4913175	93.27%	12.226%
4	6.792	796	800	803	rBV	1535480	1259039	23.90%	3.133%
5	7.351	889	895	898	rBV	3306868	3095447	58.76%	7.703%
6	8.069	1012	1017	1020	rBV	2024862	1723832	32.72%	4.290%
7	9.145	1195	1200	1204	rBV	5253313	5267764	100.00%	13.108%
8	9.269	1217	1221	1224	rVB	374966	331116	6.29%	0.824%
9	9.539	1263	1267	1272	rBV	343162	277128	5.26%	0.690%
10	9.822	1309	1315	1318	rBV	2177014	1849638	35.11%	4.603%
11	10.610	1444	1449	1452	rBV	3601570	3367983	63.94%	8.381%
12	10.739	1467	1471	1480	rVB3	59322	88503	1.68%	0.220%
13	10.910	1495	1500	1504	rBV4	42237	56070	1.06%	0.140%
14	11.186	1545	1547	1551	rBV2	98351	97976	1.86%	0.244%
15	11.310	1564	1568	1570	rBV	2147518	1814792	34.45%	4.516%
16	11.333	1570	1572	1575	rVV	359838	273194	5.19%	0.680%
17	11.380	1575	1580	1583	rVB2	132052	130966	2.49%	0.326%
18	11.616	1617	1620	1623	rBV2	75504	68456	1.30%	0.170%
19	11.851	1655	1660	1664	rBV2	497438	495549	9.41%	1.233%
20	11.880	1664	1665	1669	rVB	76771	63420	1.20%	0.158%
21	11.921	1669	1672	1674	rBV	61960	61921	1.18%	0.154%
22	12.027	1686	1690	1695	rVB2	54054	54191	1.03%	0.135%
23	12.521	1770	1774	1777	rBV	468100	395021	7.50%	0.983%
24	12.639	1791	1794	1799	rBV3	119574	138321	2.63%	0.344%
25	12.751	1807	1813	1816	rBV2	339957	375166	7.12%	0.934%
26	12.792	1817	1820	1823	rBV2	65746	60069	1.14%	0.149%
27	12.904	1835	1839	1843	rBV	4873066	4754154	90.25%	11.830%
28	13.151	1878	1881	1883	rBV	103865	89240	1.69%	0.222%
29	13.492	1936	1939	1942	rVB	90211	76438	1.45%	0.190%
30	13.815	1991	1994	2001	rVB2	367888	426392	8.09%	1.061%
31	13.951	2012	2017	2020	rBV	1366275	1335085	25.34%	3.322%
32	13.974	2020	2021	2024	rVB	169918	95222	1.81%	0.237%
33	14.139	2047	2049	2052	rBV	88151	72512	1.38%	0.180%
34	14.451	2099	2102	2106	rVB	107847	98405	1.87%	0.245%
35	14.733	2147	2150	2152	rBV2	60166	64723	1.23%	0.161%
36	14.757	2152	2154	2159	rVB2	72298	70725	1.34%	0.176%

Sample Results: **BF134557.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080123\
Data File : BF134557.D
Acq On : 01 Aug 2023 19:56
Operator : CG\JU
Sample : O3645-02
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-04-(1-5)

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

37	14.986	2189	2193	2196	rBV	151280	234087	4.44%	0.582%
38	15.098	2208	2212	2214	rBV2	83436	105756	2.01%	0.263%
39	15.280	2240	2243	2250	rVB	91847	122625	2.33%	0.305%
40	15.345	2250	2254	2259	rVB	126111	154814	2.94%	0.385%
41	15.409	2260	2265	2269	rBV	971382	1185493	22.50%	2.950%
42	15.939	2351	2355	2359	rBV	52253	79166	1.50%	0.197%
43	15.980	2359	2362	2368	rVB2	57871	95759	1.82%	0.238%
44	16.868	2509	2513	2522	rVB2	46754	97875	1.86%	0.244%

Sum of corrected areas: 40186855

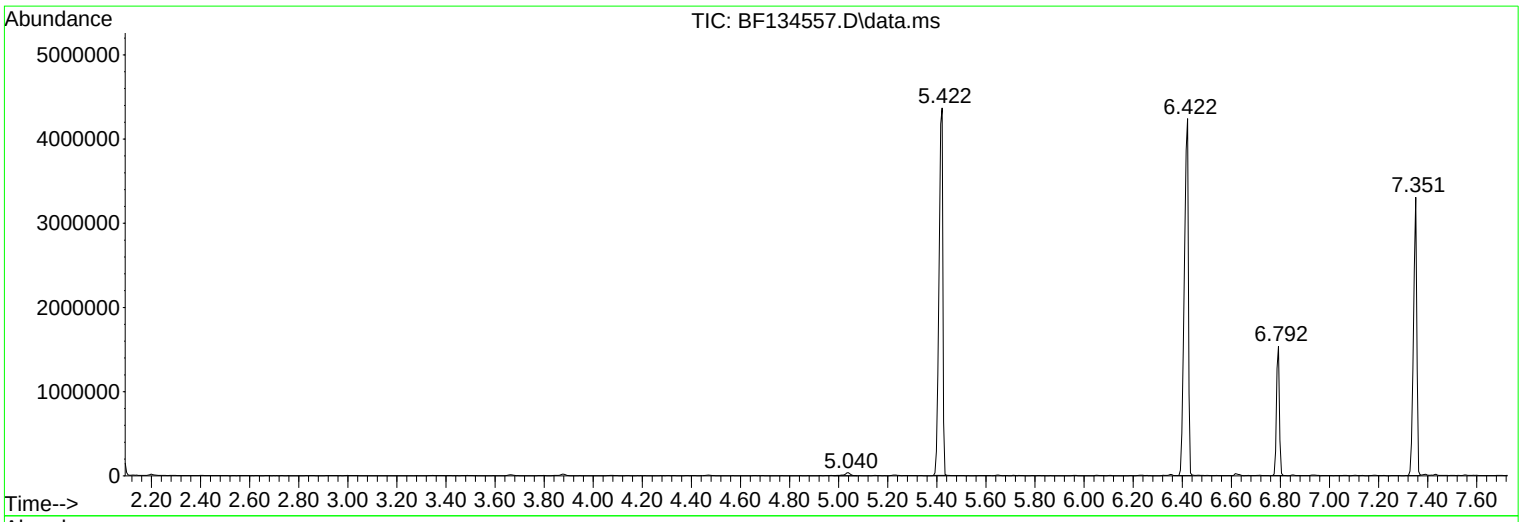
Sample Results: **BF134557.D**

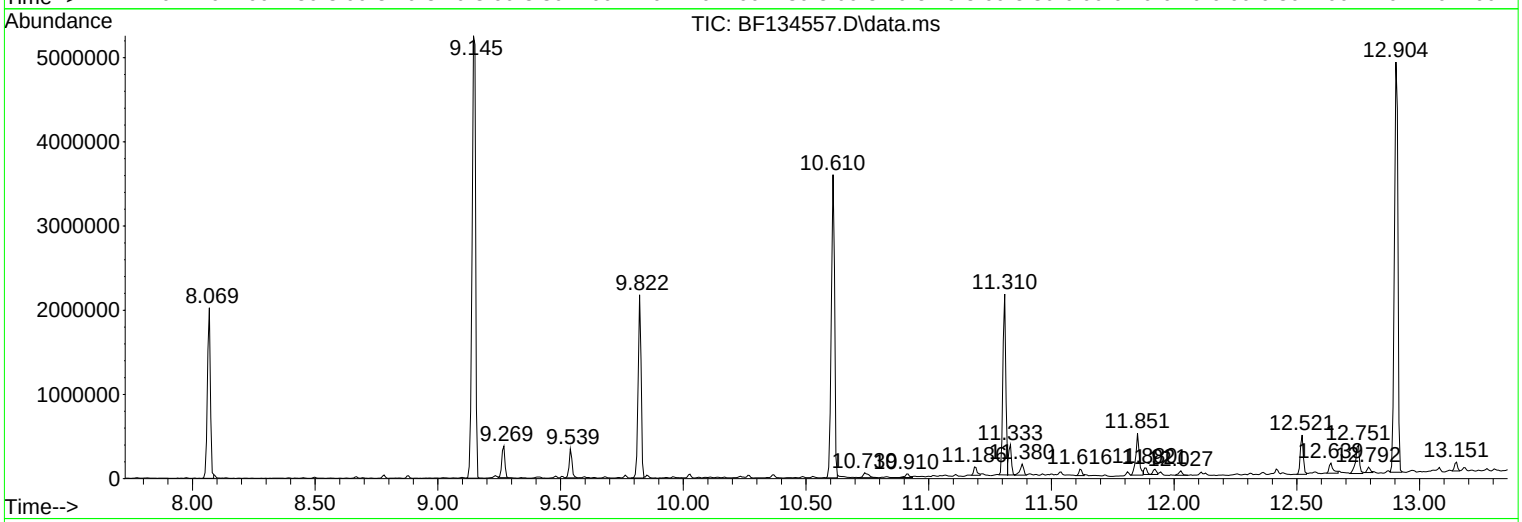
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080123\
Data File : BF134557.D
Acq On : 01 Aug 2023 19:56
Operator : CG\JU
Sample : 03645-02
Misc :
ALS Vial : 12 Sample Multiplier: 1

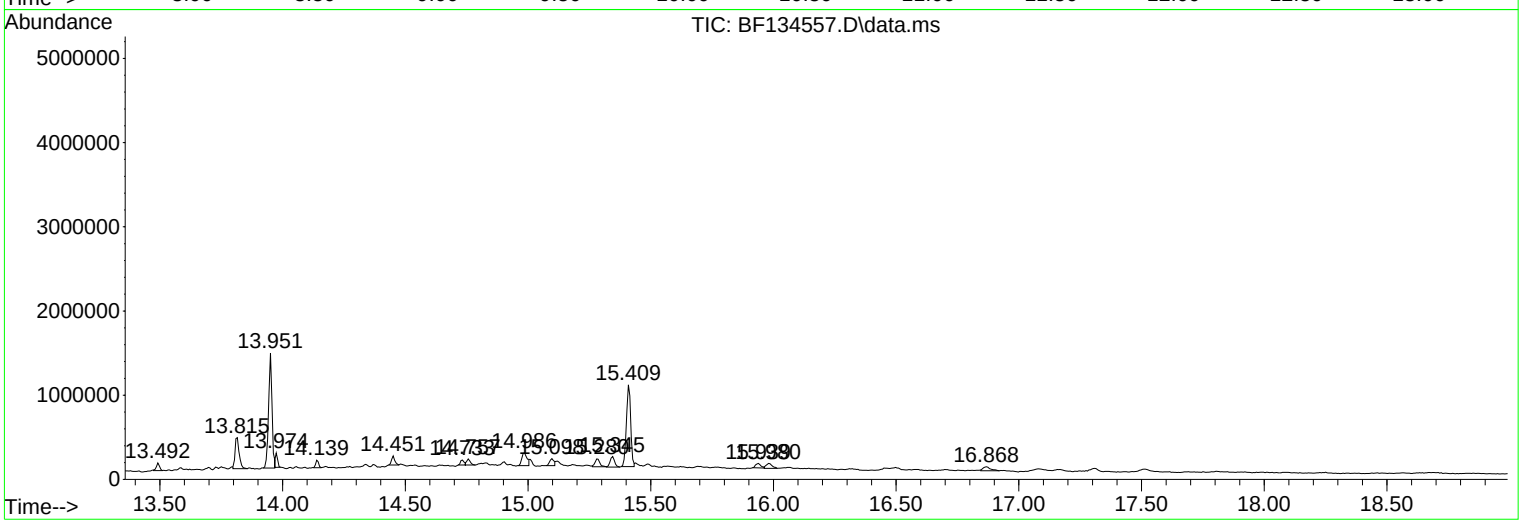
Instrument :
BNA_F
ClientSampleId :
SB-04-(1-5)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080123\
Data File : BF134557.D
Acq On : 01 Aug 2023 19:56
Operator : CG\JU
Sample : 03645-02
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-04-(1-5)

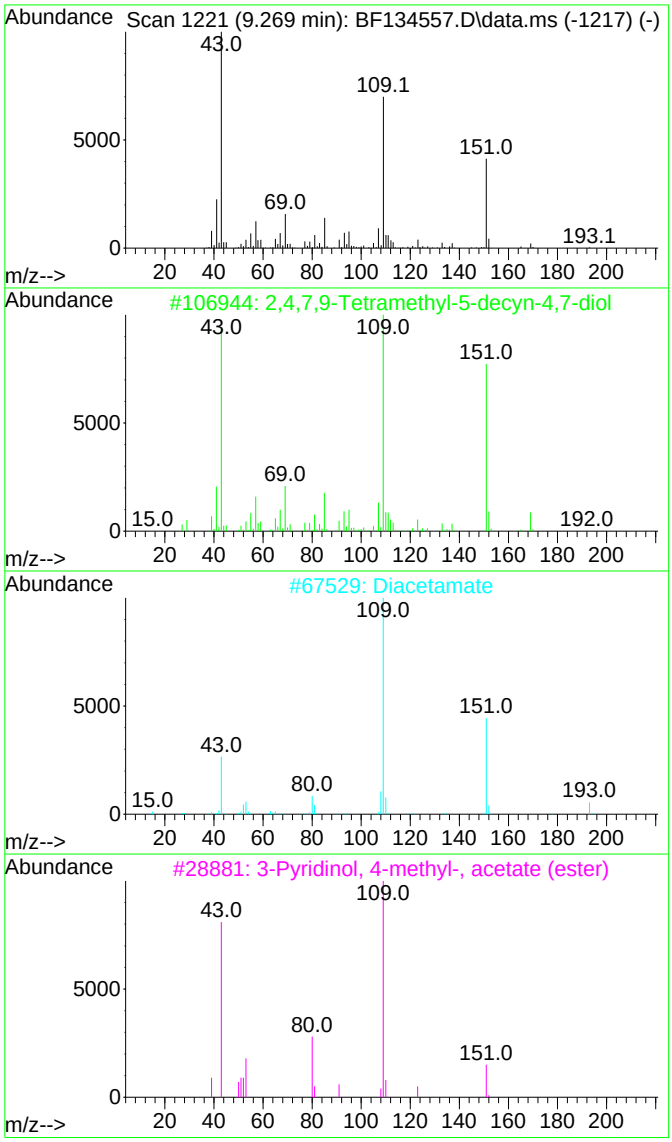
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

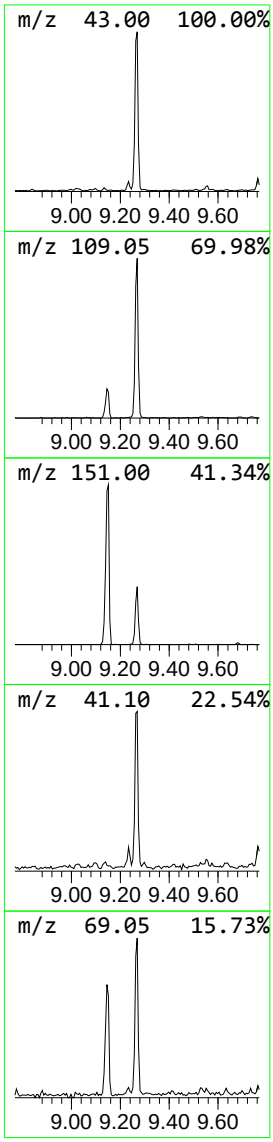
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 2,4,7,9-Tetramethyl-5-decyn... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.269	3.58 ng	331116	Acenaphthene-d10	9.822

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,4,7,9-Tetramethyl-5-decyn-4,7-...	226	C14H26O2	000126-86-3	91
2	Diacetamate	193	C10H11NO3	002623-33-8	53
3	3-Pyridinol, 4-methyl-, acetate ...	151	C8H9NO2	001006-96-8	53
4	Metacetamol	151	C8H9NO2	000621-42-1	53
5	Pyridine, 2-butyl-, 1-oxide	151	C9H13NO	031396-32-4	53





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080123\
Data File : BF134557.D
Acq On : 01 Aug 2023 19:56
Operator : CG\JU
Sample : 03645-02
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-04-(1-5)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

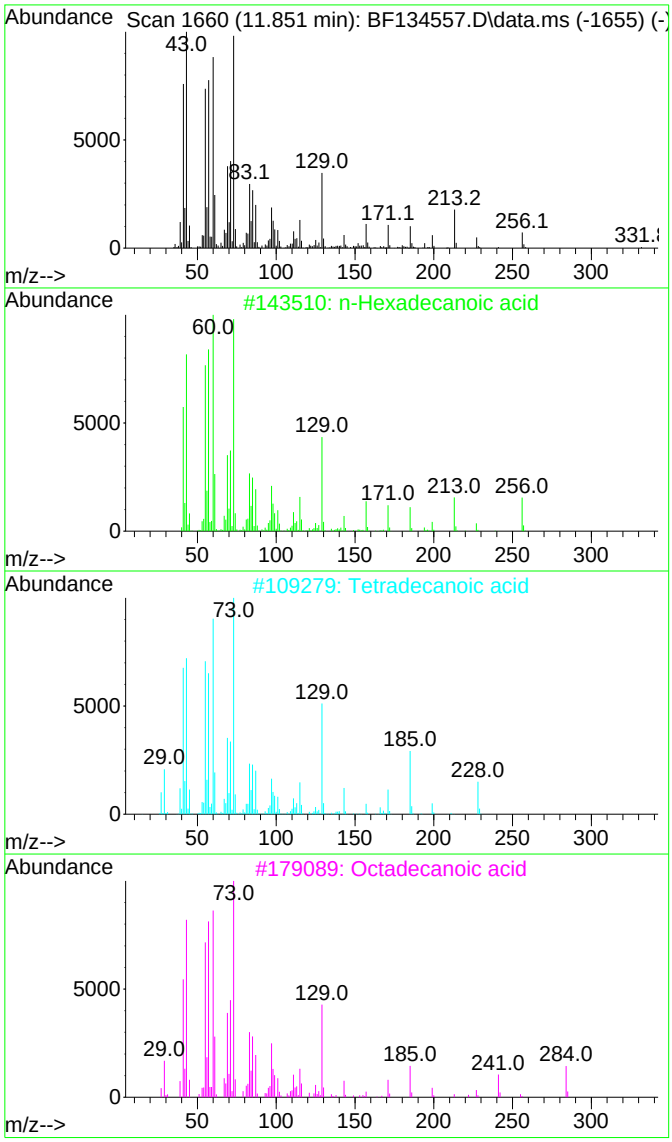
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

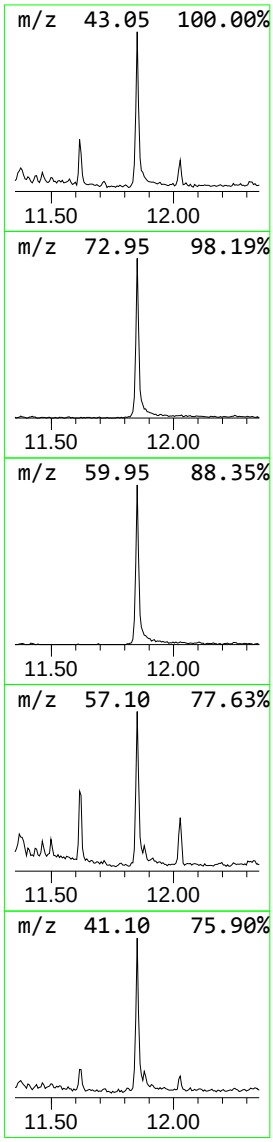
****

Peak Number 2 n-Hexadecanoic acid Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.851	5.46 ng	495549	Phenanthrene-d10	11.310

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	99
2	Tetradecanoic acid	228	C14H28O2	000544-63-8	91
3	Octadecanoic acid	284	C18H36O2	000057-11-4	90
4	Pentadecanoic acid	242	C15H30O2	001002-84-2	90
5	Tridecanoic acid	214	C13H26O2	000638-53-9	87





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080123\
Data File : BF134557.D
Acq On : 01 Aug 2023 19:56
Operator : CG\JU
Sample : 03645-02
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-04-(1-5)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

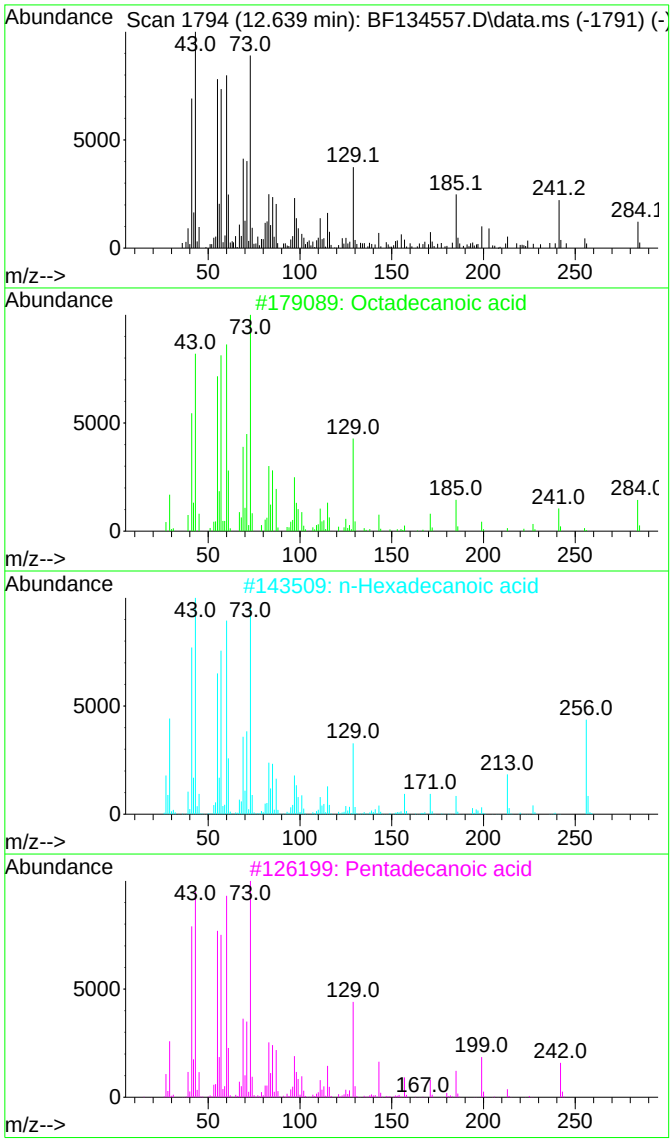
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

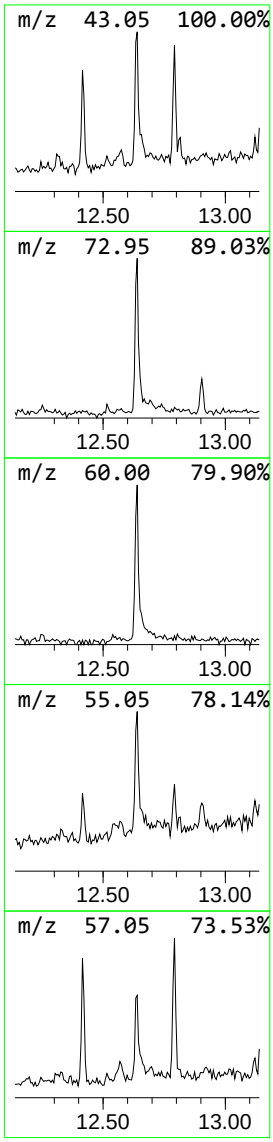
****

Peak Number 3 Octadecanoic acid Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.639	2.07 ng	138321	Chrysene-d12	13.951

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecanoic acid	284	C18H36O2	000057-11-4	99
2	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	93
3	Pentadecanoic acid	242	C15H30O2	001002-84-2	87
4	Tetradecanoic acid	228	C14H28O2	000544-63-8	83
5	n-Decanoic acid	172	C10H20O2	000334-48-5	64





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080123\
Data File : BF134557.D
Acq On : 01 Aug 2023 19:56
Operator : CG\JU
Sample : 03645-02
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-04-(1-5)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

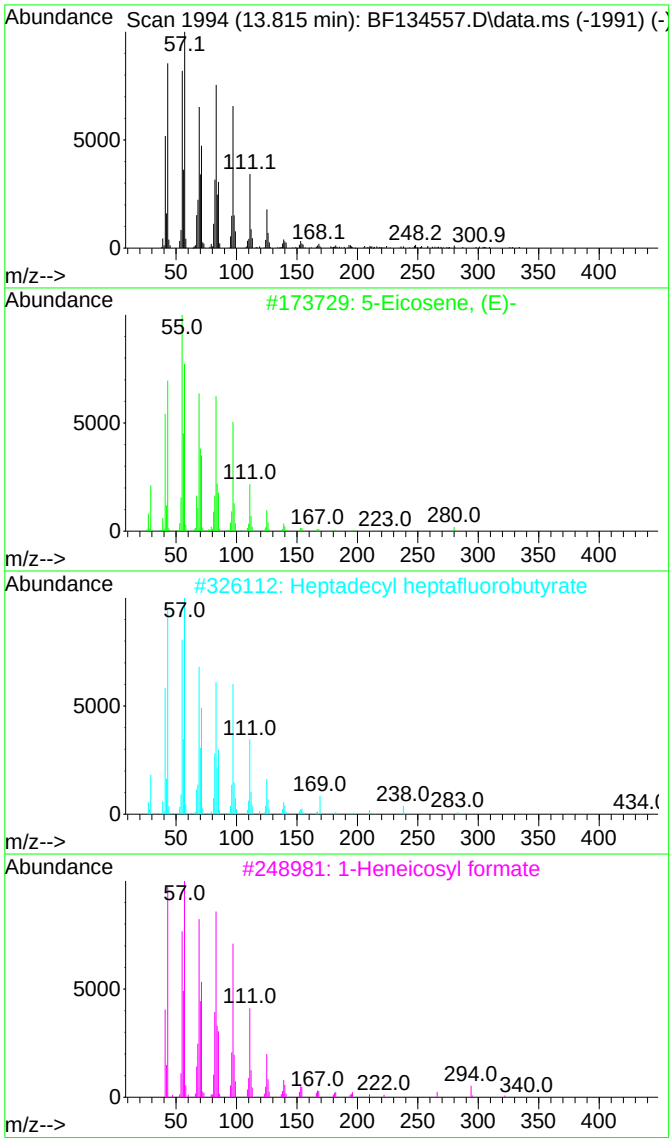
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

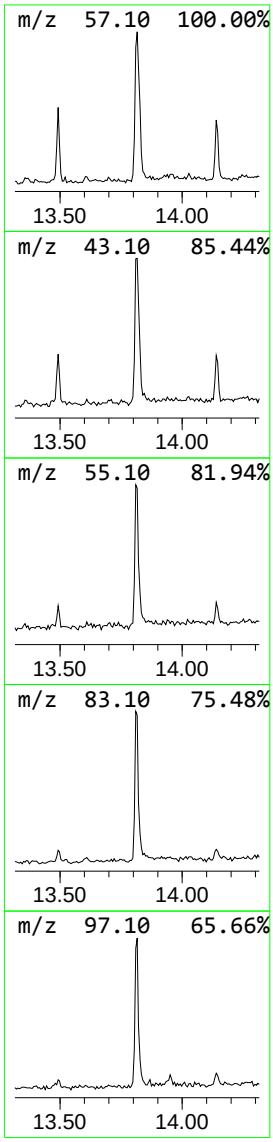
****

Peak Number 4 5-Eicosene, (E)- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.816	6.39 ng	426392	Chrysene-d12	13.951

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5-Eicosene, (E)-	280	C20H40	074685-30-6	95
2	Heptadecyl heptafluorobutyrate	452	C21H35F7O2	959085-66-6	94
3	1-Heneicosyl formate	340	C22H44O2	077899-03-7	94
4	Heptafluorobutyric acid, pentade...	424	C19H31F7O2	959261-23-5	91
5	Pentadecafluorooctanoic acid, pe...	624	C23H31F15O2	1000406-04-5	91





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080123\
Data File : BF134557.D
Acq On : 01 Aug 2023 19:56
Operator : CG\JU
Sample : 03645-02
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-04-(1-5)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

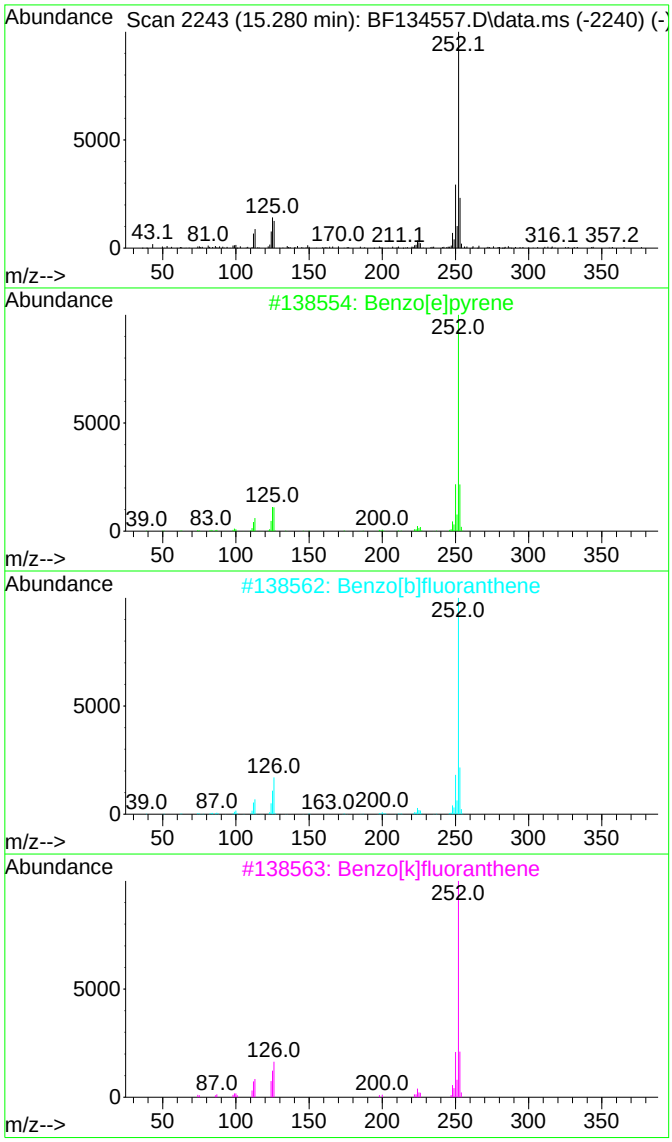
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

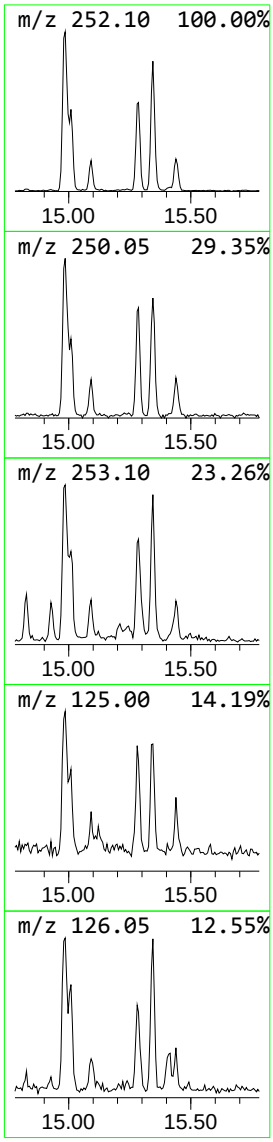
****

Peak Number 5 Benzo[e]pyrene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.280	2.07 ng	122625	Perylene-d12	15.410

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	98
2	Benzo[b]fluoranthene	252	C20H12	000205-99-2	97
3	Benzo[k]fluoranthene	252	C20H12	000207-08-9	97
4	Benzo[a]pyrene	252	C20H12	000050-32-8	95
5	Benzo[j]fluoranthene	252	C20H12	000205-82-3	95





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080123\
Data File : BF134557.D
Acq On : 01 Aug 2023 19:56
Operator : CG\JU
Sample : 03645-02
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-04-(1-5)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
2,4,7,9-Tetrame...	9.269	3.6	ng	331116	3	9.822	1849640	20.0
n-Hexadecanoic ...	11.851	5.5	ng	495549	4	11.310	1814790	20.0
Octadecanoic acid	12.639	2.1	ng	138321	5	13.951	1335090	20.0
5-Eicosene, (E)-	13.816	6.4	ng	426392	5	13.951	1335090	20.0
Benzo[e]pyrene	15.280	2.1	ng	122625	6	15.410	1185490	20.0

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/13/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-07-(1-3)	SDG No.:	O3645
Lab Sample ID:	O3645-03	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	79.5
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF134531.D	1	07/18/23 09:45	07/29/23 00:10	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	410	U	190	410	ug/Kg
108-95-2	Phenol	210	U	93.4	210	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	210	U	110	210	ug/Kg
95-57-8	2-Chlorophenol	210	U	90.4	210	ug/Kg
95-48-7	2-Methylphenol	210	U	140	210	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	210	U	130	210	ug/Kg
98-86-2	Acetophenone	210	U	110	210	ug/Kg
65794-96-9	3+4-Methylphenols	410	U	140	410	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	100	U	74.0	100	ug/Kg
67-72-1	Hexachloroethane	210	U	92.4	210	ug/Kg
98-95-3	Nitrobenzene	210	U	94.4	210	ug/Kg
78-59-1	Isophorone	210	U	85.5	210	ug/Kg
88-75-5	2-Nitrophenol	210	U	120	210	ug/Kg
105-67-9	2,4-Dimethylphenol	210	U	120	210	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	210	U	140	210	ug/Kg
120-83-2	2,4-Dichlorophenol	210	U	98.0	210	ug/Kg
91-20-3	Naphthalene	210	U	100	210	ug/Kg
106-47-8	4-Chloroaniline	210	U	130	210	ug/Kg
87-68-3	Hexachlorobutadiene	210	U	110	210	ug/Kg
105-60-2	Caprolactam	410	U	150	410	ug/Kg
59-50-7	4-Chloro-3-methylphenol	210	U	100	210	ug/Kg
91-57-6	2-Methylnaphthalene	210	U	120	210	ug/Kg
77-47-4	Hexachlorocyclopentadiene	410	U	260	410	ug/Kg
88-06-2	2,4,6-Trichlorophenol	210	U	96.8	210	ug/Kg
95-95-4	2,4,5-Trichlorophenol	210	U	110	210	ug/Kg
92-52-4	1,1-Biphenyl	210	U	110	210	ug/Kg
91-58-7	2-Chloronaphthalene	210	U	110	210	ug/Kg
88-74-4	2-Nitroaniline	210	U	120	210	ug/Kg
131-11-3	Dimethylphthalate	210	U	110	210	ug/Kg
208-96-8	Acenaphthylene	210	U	110	210	ug/Kg
606-20-2	2,6-Dinitrotoluene	210	U	110	210	ug/Kg

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/13/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-07-(1-3)	SDG No.:	O3645
Lab Sample ID:	O3645-03	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	79.5
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF134531.D	1	07/18/23 09:45	07/29/23 00:10	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
99-09-2	3-Nitroaniline	210	U	120	210	ug/Kg
83-32-9	Acenaphthene	210	U	100	210	ug/Kg
51-28-5	2,4-Dinitrophenol	410	U	230	410	ug/Kg
100-02-7	4-Nitrophenol	410	U	140	410	ug/Kg
132-64-9	Dibenzofuran	210	U	96.5	210	ug/Kg
121-14-2	2,4-Dinitrotoluene	210	U	130	210	ug/Kg
84-66-2	Diethylphthalate	210	U	110	210	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	210	U	110	210	ug/Kg
86-73-7	Fluorene	210	U	110	210	ug/Kg
100-01-6	4-Nitroaniline	210	U	130	210	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	410	U	110	410	ug/Kg
86-30-6	n-Nitrosodiphenylamine	210	U	120	210	ug/Kg
101-55-3	4-Bromophenyl-phenylether	210	U	120	210	ug/Kg
118-74-1	Hexachlorobenzene	210	U	120	210	ug/Kg
1912-24-9	Atrazine	210	U	120	210	ug/Kg
87-86-5	Pentachlorophenol	410	U	140	410	ug/Kg
85-01-8	Phenanthrene	210	U	120	210	ug/Kg
120-12-7	Anthracene	210	U	130	210	ug/Kg
86-74-8	Carbazole	210	U	110	210	ug/Kg
84-74-2	Di-n-butylphthalate	210	U	130	210	ug/Kg
206-44-0	Fluoranthene	210	U	120	210	ug/Kg
129-00-0	Pyrene	210	U	110	210	ug/Kg
85-68-7	Butylbenzylphthalate	210	U	130	210	ug/Kg
91-94-1	3,3-Dichlorobenzidine	410	U	200	410	ug/Kg
56-55-3	Benzo(a)anthracene	210	U	110	210	ug/Kg
218-01-9	Chrysene	210	U	110	210	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	210	U	140	210	ug/Kg
117-84-0	Di-n-octyl phthalate	410	U	150	410	ug/Kg
205-99-2	Benzo(b)fluoranthene	210	U	100	210	ug/Kg
207-08-9	Benzo(k)fluoranthene	210	U	110	210	ug/Kg
50-32-8	Benzo(a)pyrene	210	U	120	210	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	210	U	130	210	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	210	U	120	210	ug/Kg

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/13/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-07-(1-3)	SDG No.:	O3645
Lab Sample ID:	O3645-03	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	79.5
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF134531.D	1	07/18/23 09:45	07/29/23 00:10	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
191-24-2	Benzo(g,h,i)perylene	210	U	120	210	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	210	U	110	210	ug/Kg
123-91-1	1,4-Dioxane	210	U	150	210	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	210	U	100	210	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	79.7		18 - 112	53%	SPK: 150
13127-88-3	Phenol-d6	77.7		21 - 104	52%	SPK: 150
4165-60-0	Nitrobenzene-d5	52.1		27 - 109	52%	SPK: 100
321-60-8	2-Fluorobiphenyl	53.1		30 - 103	53%	SPK: 100
118-79-6	2,4,6-Tribromophenol	66.0		10 - 121	44%	SPK: 150
1718-51-0	Terphenyl-d14	57.2		21 - 107	57%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	99600	6.828			
1146-65-2	Naphthalene-d8	368000	8.11			
15067-26-2	Acenaphthene-d10	164000	9.863			
1517-22-2	Phenanthrene-d10	267000	11.357			
1719-03-5	Chrysene-d12	176000	14.016			
1520-96-3	Perylene-d12	152000	15.515			
TENTATIVE IDENTIFIED COMPOUNDS						
000994-05-8	Butane, 2-methoxy-2-methyl-	410	J		2.13	ug/Kg
000057-10-3	n-Hexadecanoic acid	200	J		11.9	ug/Kg
015594-90-8	1-Heneicosanol	190	J		13.9	ug/Kg

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF072823\
Data File : BF134531.D
Acq On : 29 Jul 2023 00:10
Operator : CG\JU
Sample : 03645-03
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-07-(1-3)

Quant Time: Jul 29 01:29:12 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF072423.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jul 27 12:16:03 2023
Response via : Initial Calibration

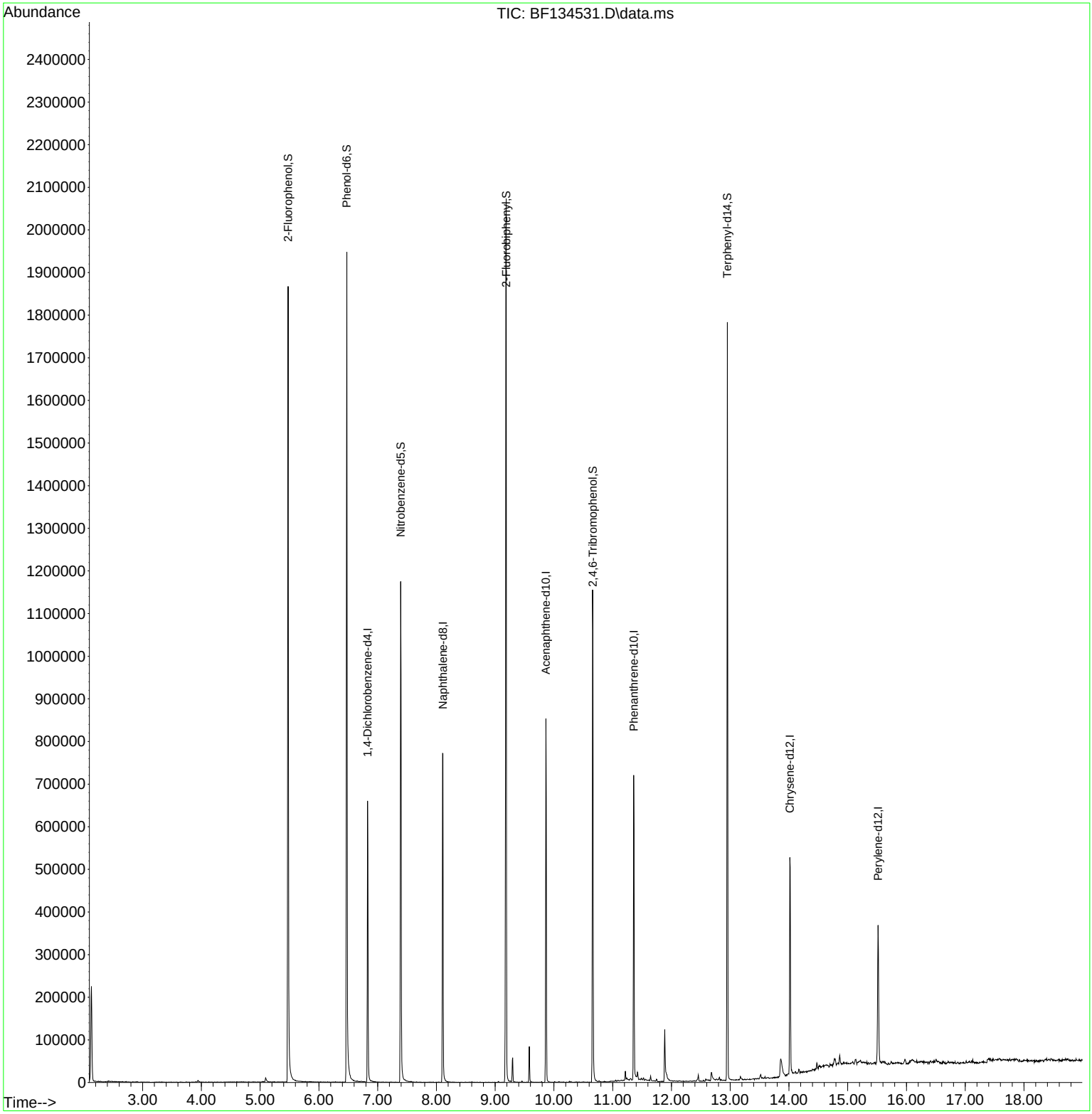
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.828	152	99614	20.000	ng	0.00
21) Naphthalene-d8	8.110	136	368068	20.000	ng	# 0.00
39) Acenaphthene-d10	9.863	164	164170	20.000	ng	0.00
64) Phenanthrene-d10	11.357	188	266517	20.000	ng	# 0.00
76) Chrysene-d12	14.016	240	176024	20.000	ng	# 0.00
86) Perylene-d12	15.515	264	152338	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.475	112	480258	79.655	ng	0.01
7) Phenol-d6	6.475	99	574170	77.727	ng	0.00
23) Nitrobenzene-d5	7.393	82	379320	52.141	ng	0.00
42) 2,4,6-Tribromophenol	10.663	330	153935	65.994	ng	0.00
45) 2-Fluorobiphenyl	9.187	172	663691	53.072	ng	0.00
79) Terphenyl-d14	12.951	244	577061	57.228	ng	0.00
Target Compounds						Qvalue

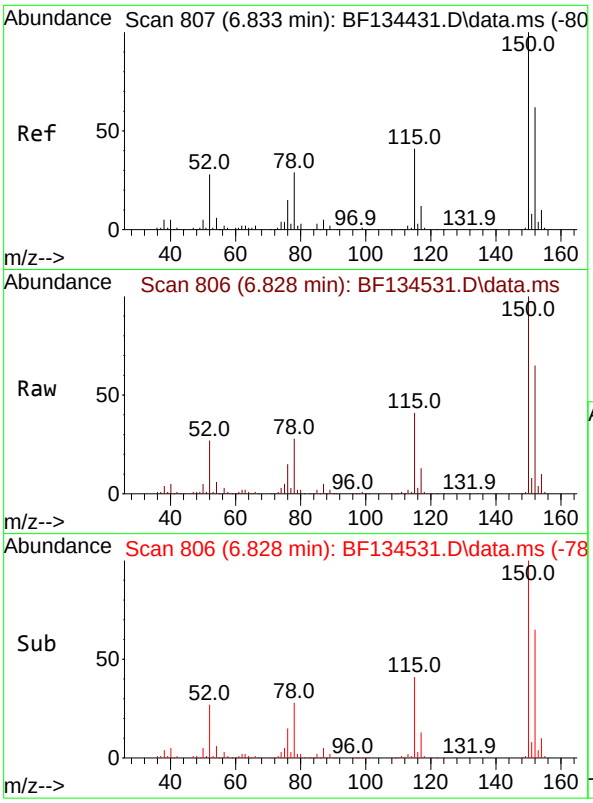
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF072823\
Data File : BF134531.D
Acq On : 29 Jul 2023 00:10
Operator : CG\JU
Sample : 03645-03
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-07-(1-3)

Quant Time: Jul 29 01:29:12 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF072423.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jul 27 12:16:03 2023
Response via : Initial Calibration



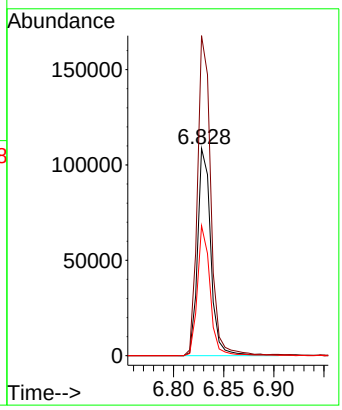


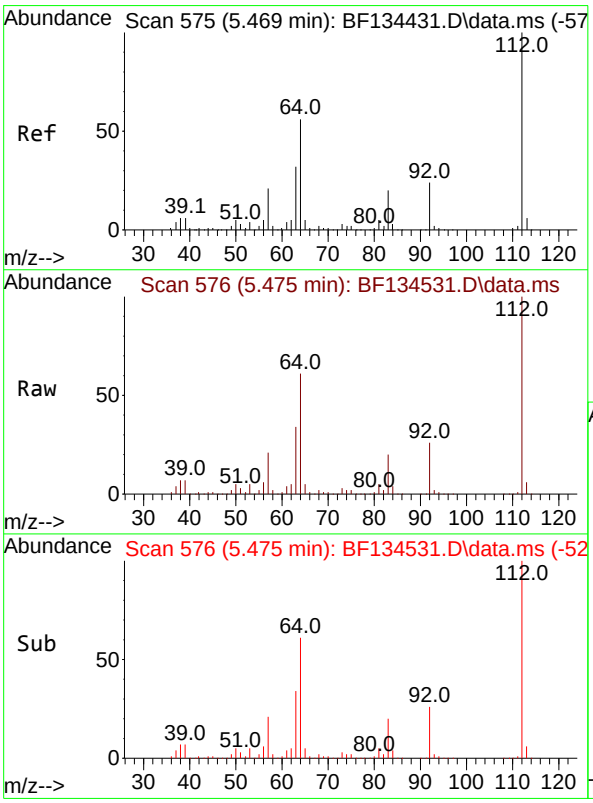
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.828 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF134531.D
Acq: 29 Jul 2023 00:10

Instrument :
BNA_F
ClientSampleId :
SB-07-(1-3)

Tgt Ion:152 Resp: 99614

Ion	Ratio	Lower	Upper
152	100		
150	154.4	128.3	192.5
115	62.7	52.4	78.6

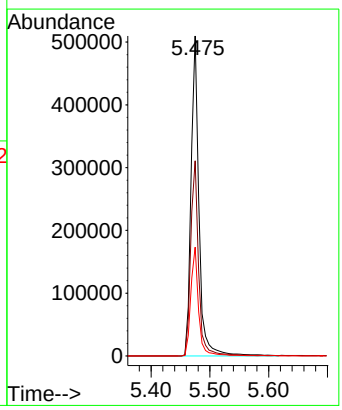


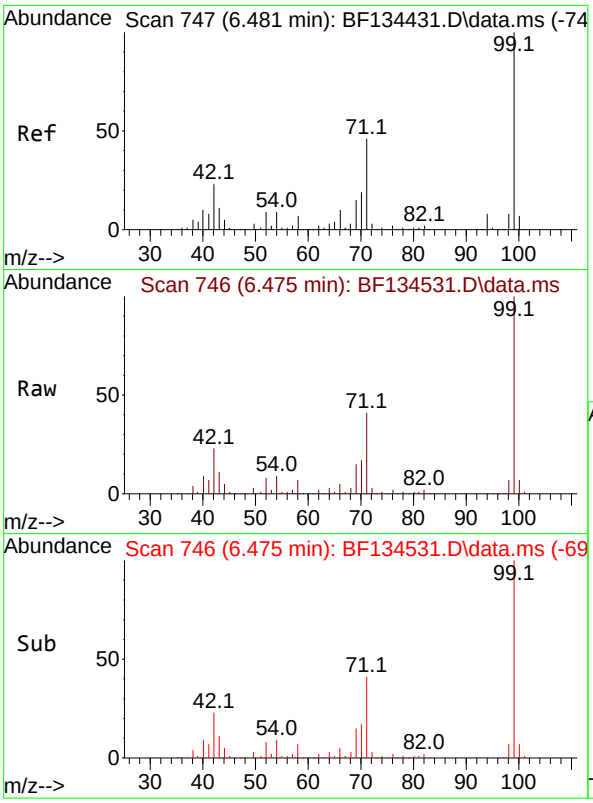


#5
2-Fluorophenol
Concen: 79.655 ng
RT: 5.475 min Scan# 576
Delta R.T. 0.012 min
Lab File: BF134531.D
Acq: 29 Jul 2023 00:10

Tgt Ion:112 Resp: 480258

Ion	Ratio	Lower	Upper
112	100		
64	61.0	44.9	67.3
63	34.0	25.4	38.0



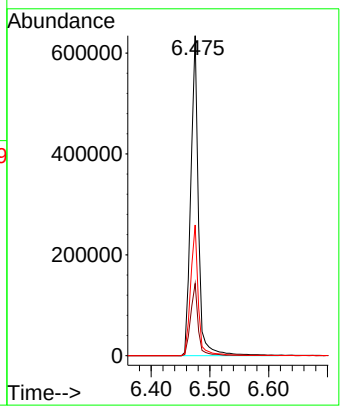


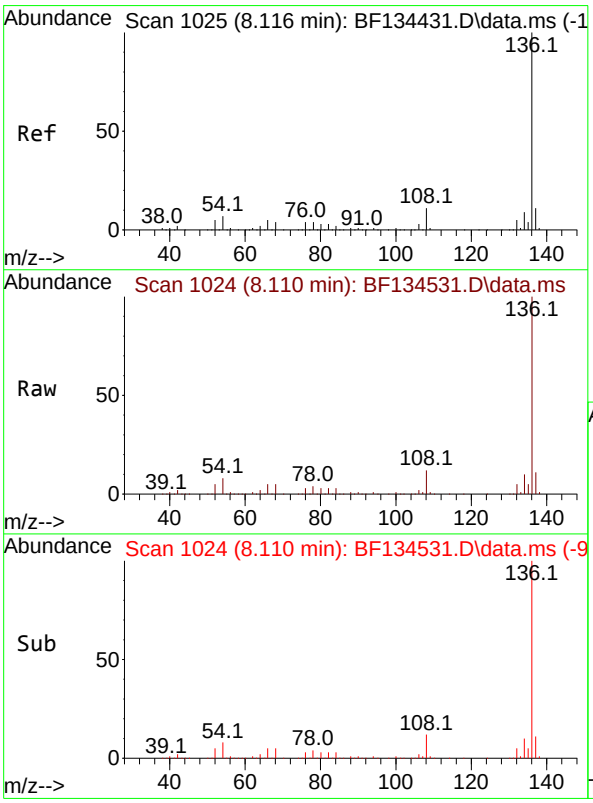
#7
Phenol-d6
Concen: 77.727 ng
RT: 6.475 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF134531.D
Acq: 29 Jul 2023 00:10

Instrument :
BNA_F
ClientSampleId :
SB-07-(1-3)

Tgt Ion: 99 Resp: 574170

Ion	Ratio	Lower	Upper
99	100		
42	22.6	18.7	28.1
71	40.9	36.4	54.6

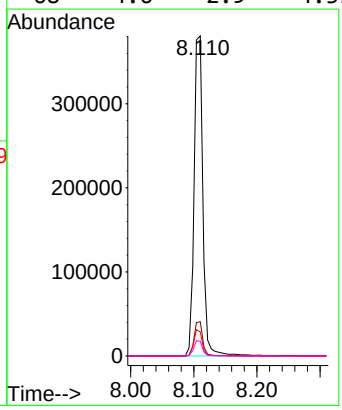


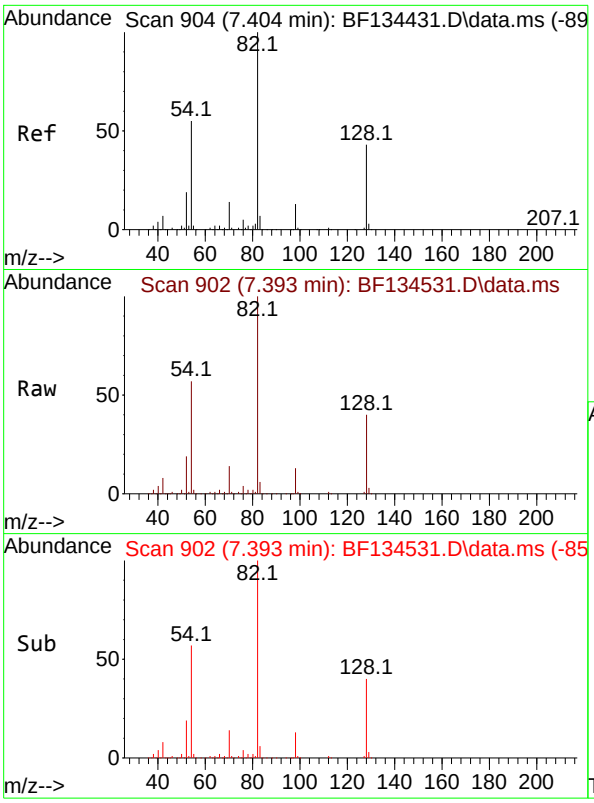


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.110 min Scan# 1024
Delta R.T. 0.006 min
Lab File: BF134531.D
Acq: 29 Jul 2023 00:10

Tgt Ion:136 Resp: 368068

Ion	Ratio	Lower	Upper
136	100		
137	10.7	8.4	12.6
54	7.5	5.2	7.8
68	4.6	2.9	4.3#



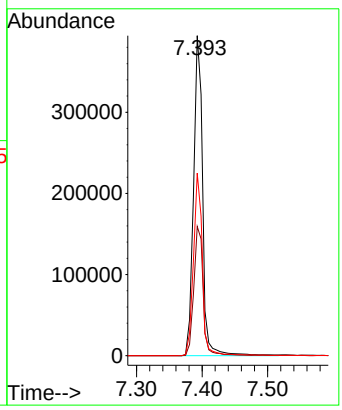


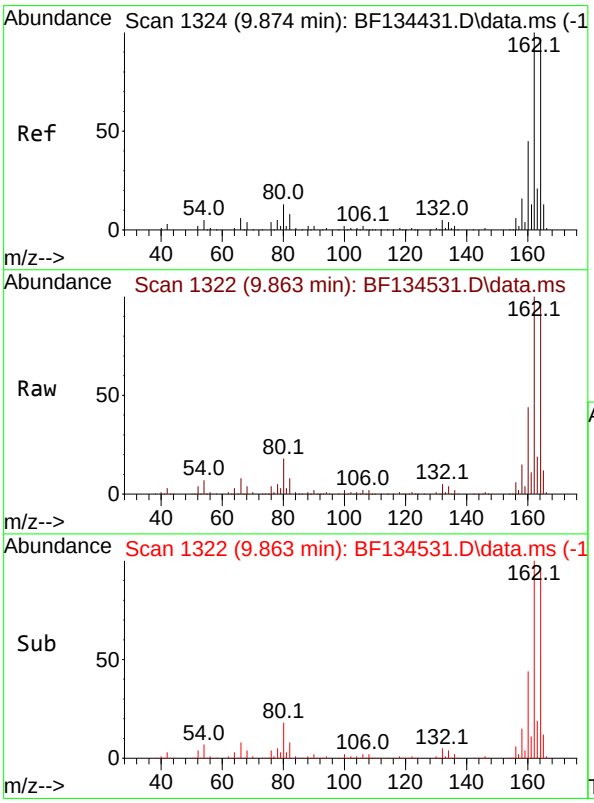
#23
Nitrobenzene-d5
Concen: 52.141 ng
RT: 7.393 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF134531.D
Acq: 29 Jul 2023 00:10

Instrument :
BNA_F
ClientSampleId :
SB-07-(1-3)

Tgt Ion: 82 Resp: 379320

Ion	Ratio	Lower	Upper
82	100		
128	40.4	34.3	51.5
54	57.0	43.8	65.6

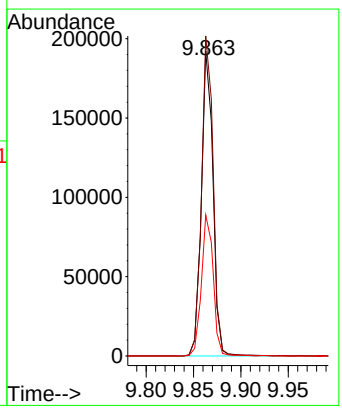


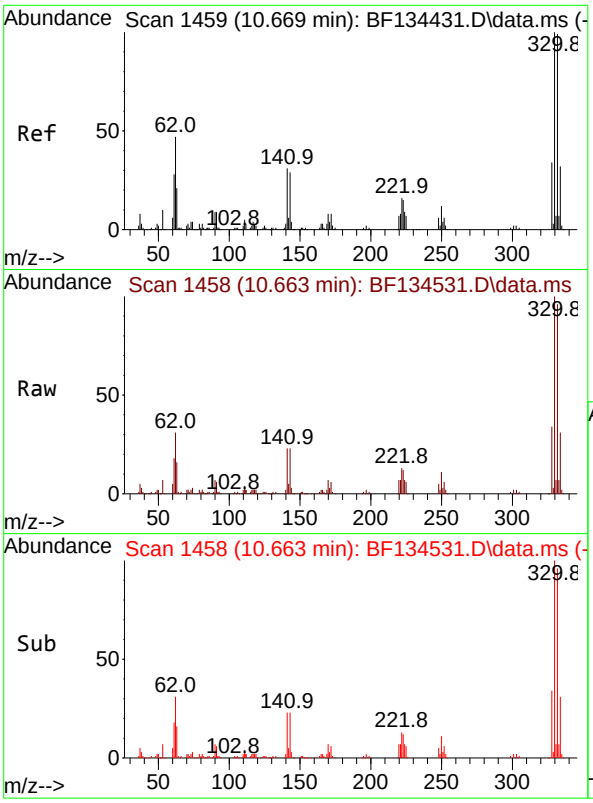


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.863 min Scan# 1322
Delta R.T. 0.000 min
Lab File: BF134531.D
Acq: 29 Jul 2023 00:10

Tgt Ion:164 Resp: 164170

Ion	Ratio	Lower	Upper
164	100		
162	104.9	82.6	123.8
160	46.2	37.2	55.8



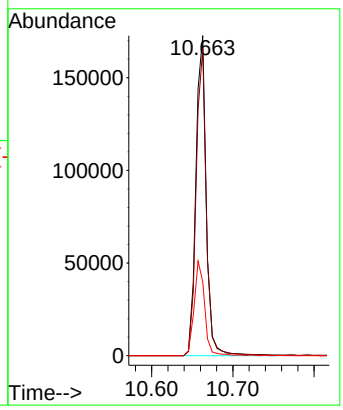


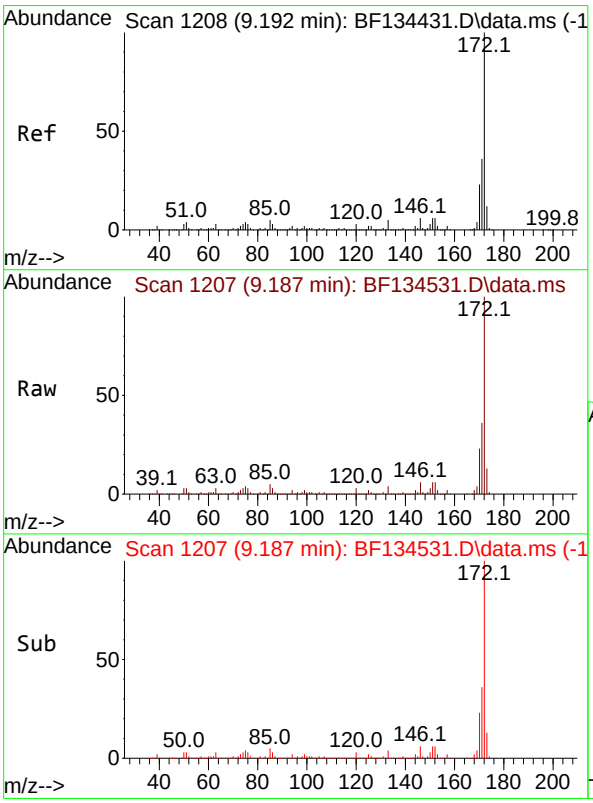
#42
2,4,6-Tribromophenol
Concen: 65.994 ng
RT: 10.663 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF134531.D
Acq: 29 Jul 2023 00:10

Instrument :
BNA_F
ClientSampleId :
SB-07-(1-3)

Tgt Ion:330 Resp: 153935

Ion	Ratio	Lower	Upper
330	100		
332	94.4	78.8	118.2
141	30.1	25.4	38.2

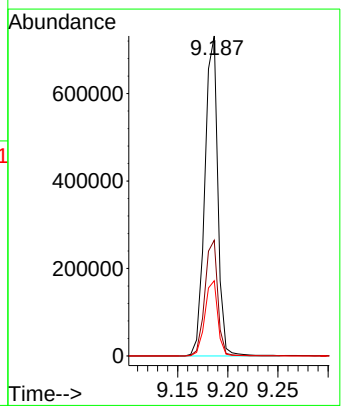


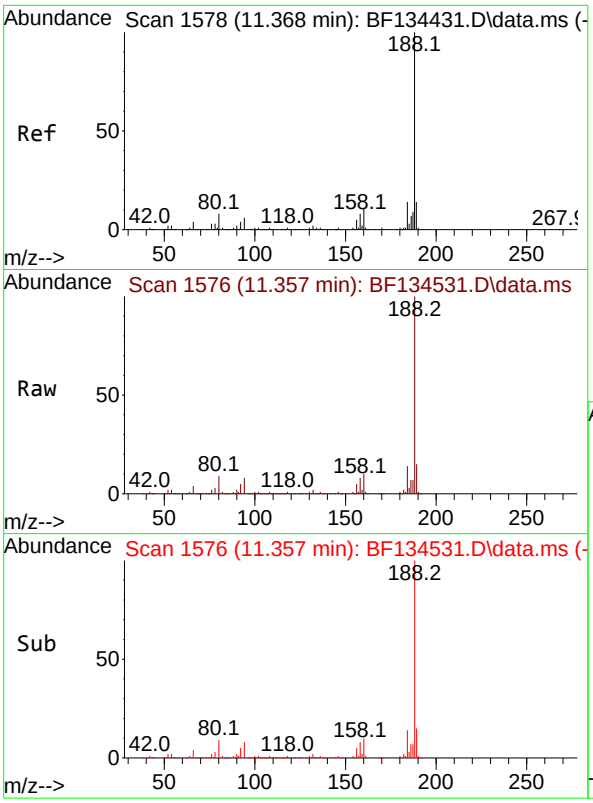


#45
2-Fluorobiphenyl
Concen: 53.072 ng
RT: 9.187 min Scan# 1207
Delta R.T. 0.006 min
Lab File: BF134531.D
Acq: 29 Jul 2023 00:10

Tgt Ion:172 Resp: 663691

Ion	Ratio	Lower	Upper
172	100		
171	36.2	28.8	43.2
170	23.5	18.7	28.1



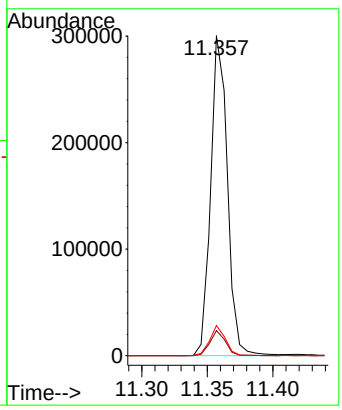


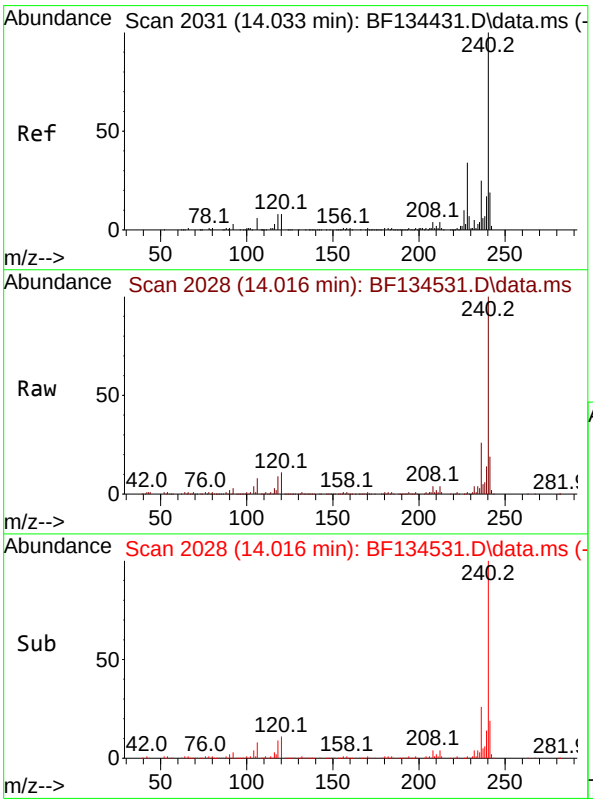
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.357 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134531.D
Acq: 29 Jul 2023 00:10

Instrument :
BNA_F
ClientSampleId :
SB-07-(1-3)

Tgt Ion:188 Resp: 266517

Ion	Ratio	Lower	Upper
188	100		
94	7.8	5.1	7.7#
80	9.4	6.6	9.8

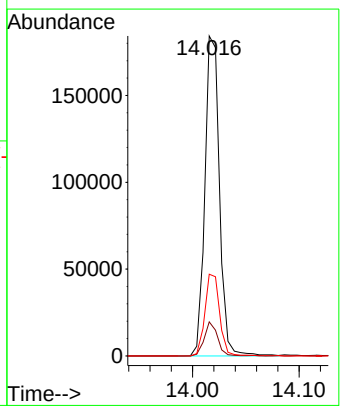


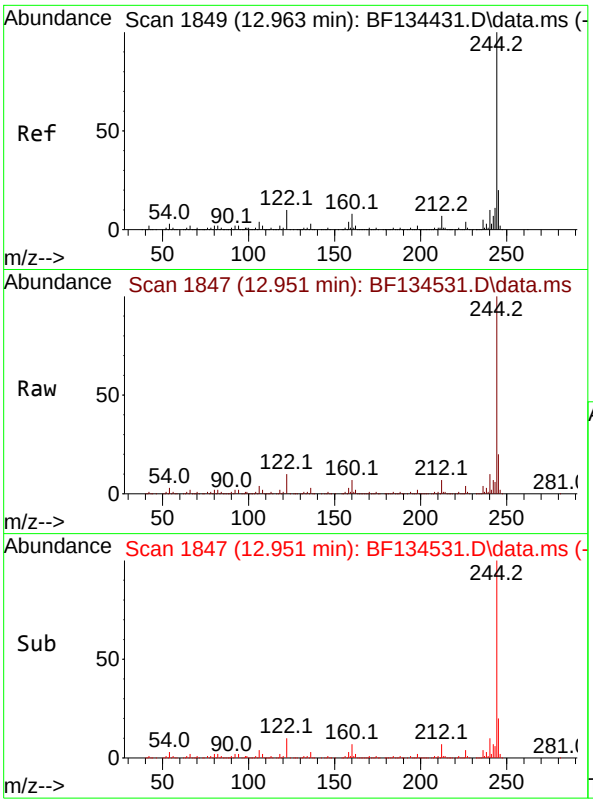


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.016 min Scan# 2028
Delta R.T. -0.006 min
Lab File: BF134531.D
Acq: 29 Jul 2023 00:10

Tgt Ion:240 Resp: 176024

Ion	Ratio	Lower	Upper
240	100		
120	10.7	6.6	10.0#
236	25.5	20.2	30.2



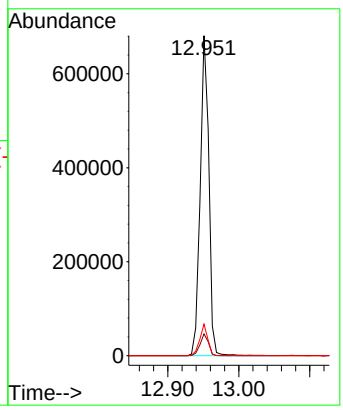


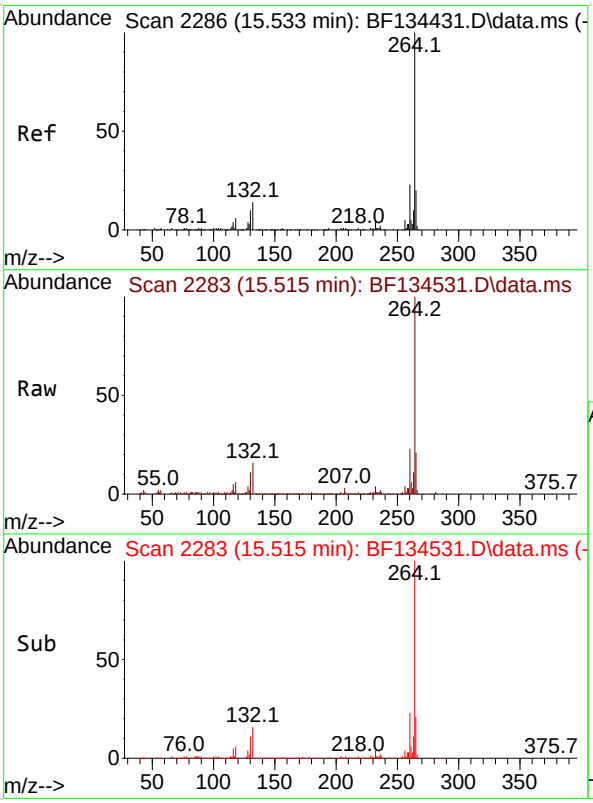
#79
Terphenyl-d14
Concen: 57.228 ng
RT: 12.951 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134531.D
Acq: 29 Jul 2023 00:10

Instrument :
BNA_F
ClientSampleId :
SB-07-(1-3)

Tgt Ion:244 Resp: 577061

Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.6	8.4
122	9.9	8.0	12.0

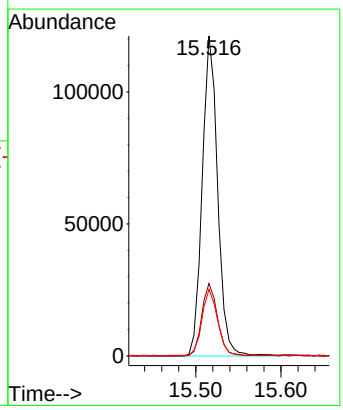




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.515 min Scan# 2283
Delta R.T. 0.000 min
Lab File: BF134531.D
Acq: 29 Jul 2023 00:10

Tgt Ion:264 Resp: 152338

Ion	Ratio	Lower	Upper
264	100		
260	22.6	18.4	27.6
265	20.8	15.8	23.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF072823\
Data File : BF134531.D
Acq On : 29 Jul 2023 00:10
Operator : CG\JU
Sample : 03645-03
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-07-(1-3)

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF072423.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF134531.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.128	3	7	15	rVB	222182	289330	15.03%	2.144%
2	5.475	572	576	596	rBV	1866947	1757367	91.32%	13.020%
3	6.475	742	746	765	rBV	1947111	1785024	92.76%	13.224%
4	6.828	803	806	815	rBV	658789	583996	30.35%	4.327%
5	7.393	898	902	913	rBV	1174713	1123295	58.37%	8.322%
6	8.104	1020	1023	1038	rBV	771171	742540	38.58%	5.501%
7	9.187	1202	1207	1210	rBV	2072133	1924431	100.00%	14.257%
8	9.298	1222	1226	1230	rVB	57043	52520	2.73%	0.389%
9	9.581	1271	1274	1279	rBV	83647	64058	3.33%	0.475%
10	9.863	1318	1322	1326	rBV	853159	731465	38.01%	5.419%
11	10.657	1454	1457	1466	rBV	1155160	1093477	56.82%	8.101%
12	11.357	1573	1576	1580	rBV	713558	629870	32.73%	4.666%
13	11.886	1663	1666	1678	rBV2	121981	152996	7.95%	1.133%
14	12.680	1798	1801	1812	rBV3	20412	39361	2.05%	0.292%
15	12.951	1843	1847	1850	rBV	1778694	1467918	76.28%	10.875%
16	13.863	1997	2002	2015	rBV5	41531	109583	5.69%	0.812%
17	14.016	2025	2028	2032	rBV	508161	490204	25.47%	3.632%
18	14.774	2154	2157	2162	rVB6	14777	26690	1.39%	0.198%
19	14.863	2169	2172	2177	rVB	21271	24347	1.27%	0.180%
20	15.516	2278	2283	2289	rBV	323163	409419	21.27%	3.033%

Sum of corrected areas: 13497891

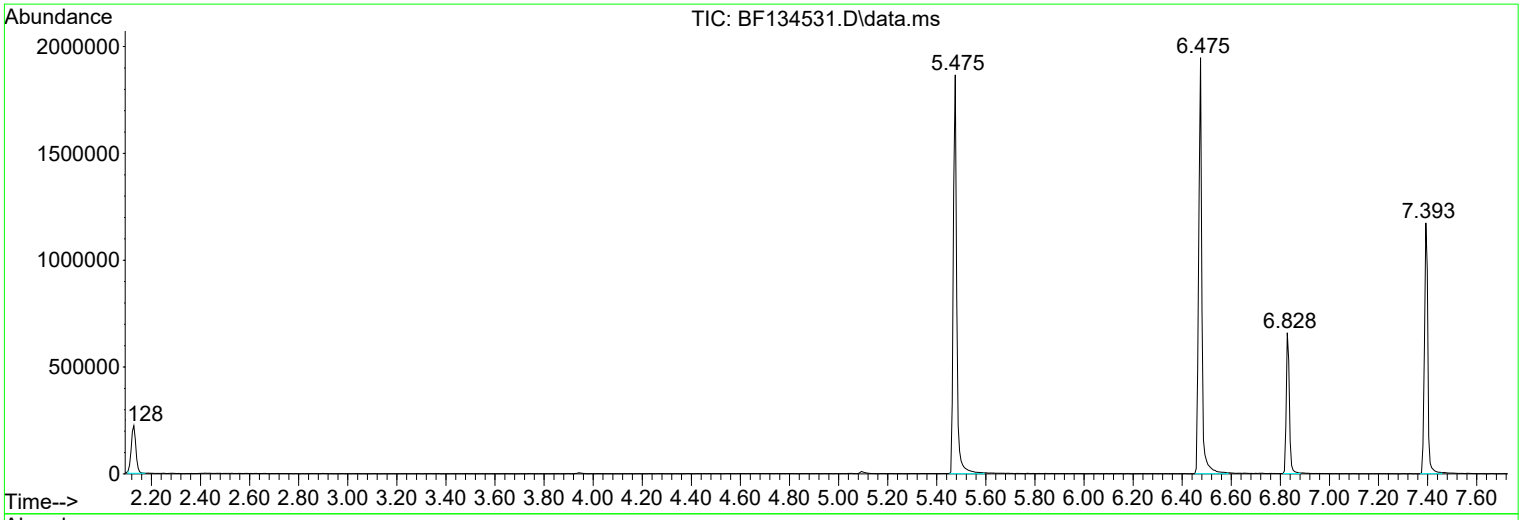
Sample Results: **BF134531.D**

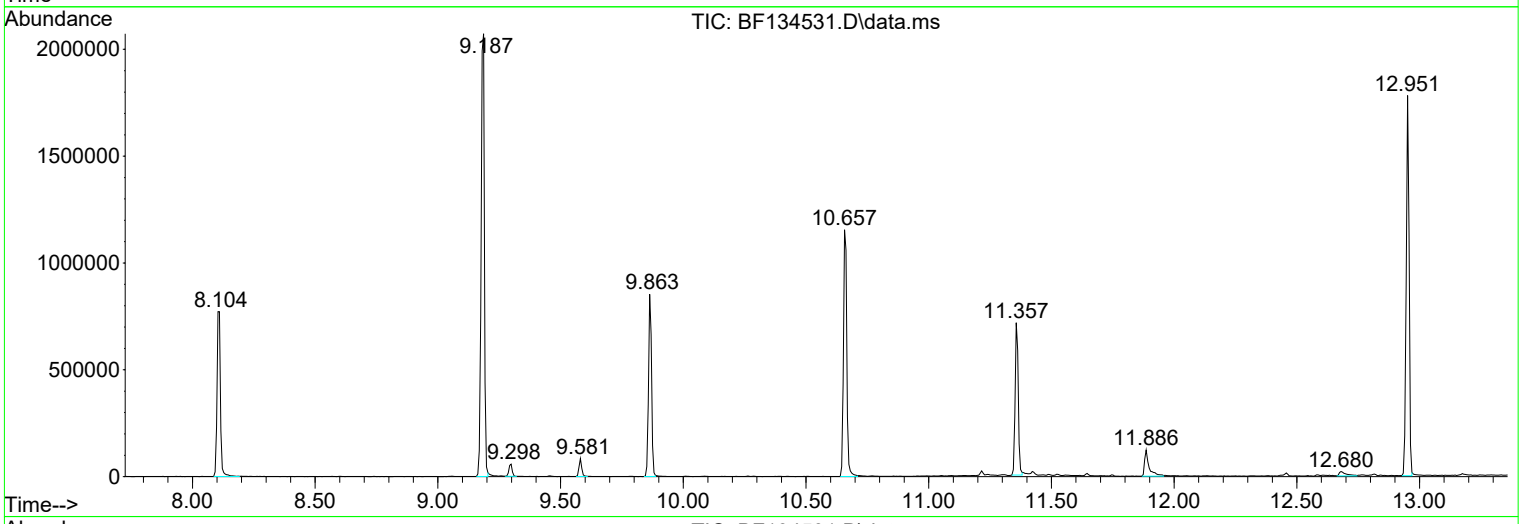
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF072823\
Data File : BF134531.D
Acq On : 29 Jul 2023 00:10
Operator : CG\JU
Sample : 03645-03
Misc :
ALS Vial : 15 Sample Multiplier: 1

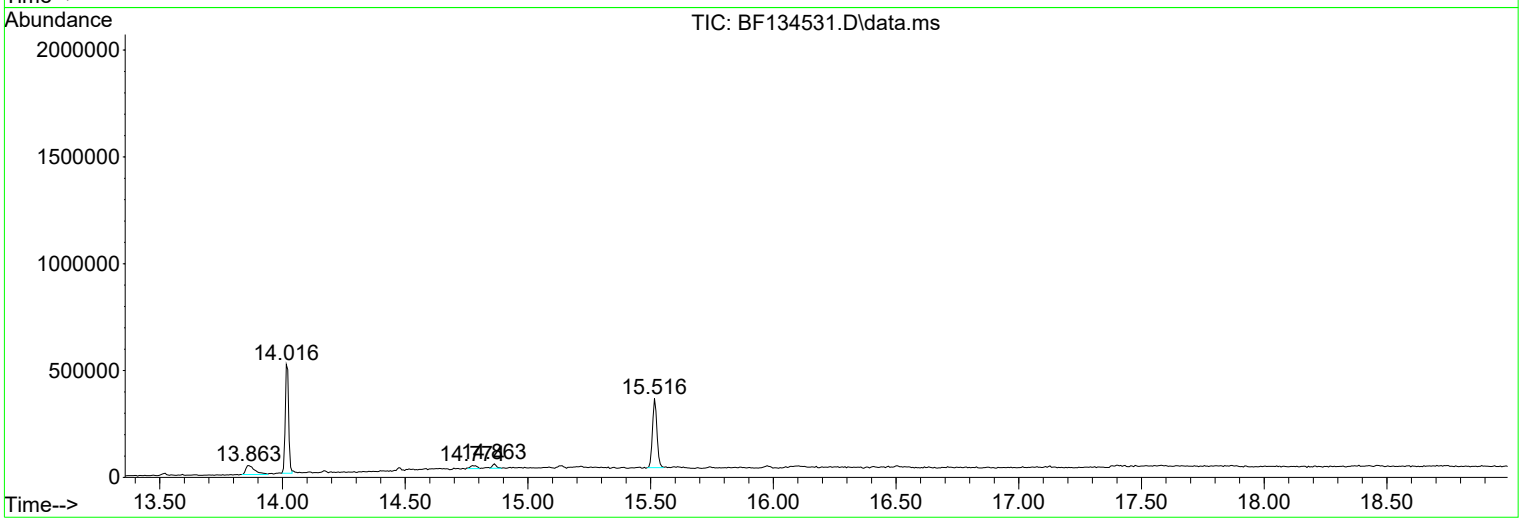
Instrument :
BNA_F
ClientSampleId :
SB-07-(1-3)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF072423.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF072823\
Data File : BF134531.D
Acq On : 29 Jul 2023 00:10
Operator : CG\JU
Sample : 03645-03
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-07-(1-3)

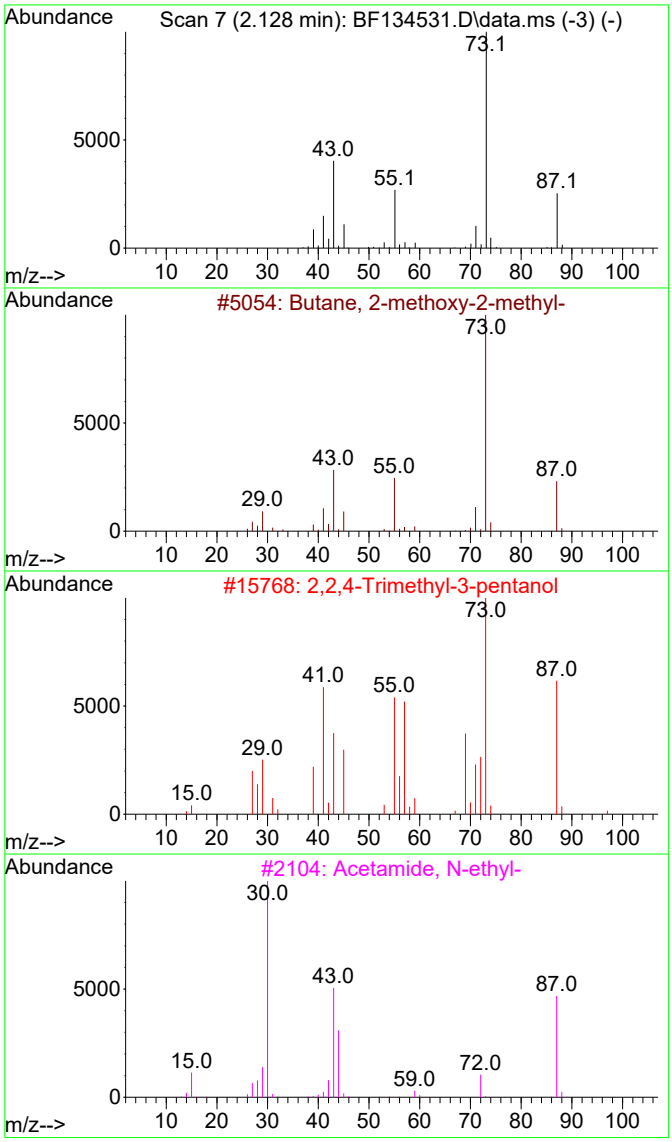
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF072423.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

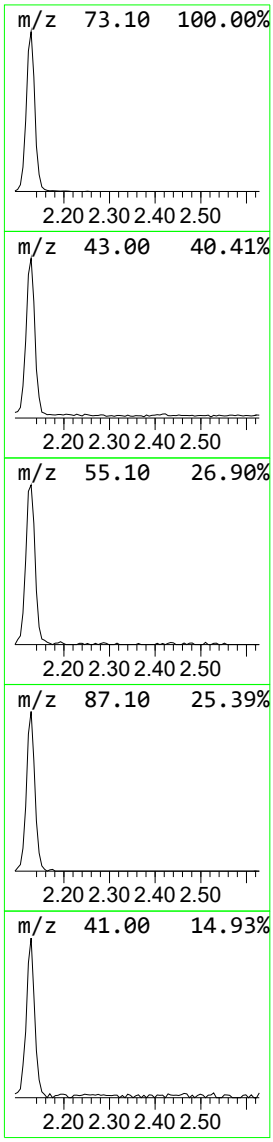
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.128	9.91 ng	289330	1,4-Dichlorobenzene-d4	6.828

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	78
2	2,2,4-Trimethyl-3-pentanol	130	C8H18O	005162-48-1	50
3	Acetamide, N-ethyl-	87	C4H9NO	000625-50-3	27
4	1,3-Dioxolane, 2-methyl-	88	C4H8O2	000497-26-7	25
5	Silane, tetramethyl-	88	C4H12Si	000075-76-3	17





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF072823\
Data File : BF134531.D
Acq On : 29 Jul 2023 00:10
Operator : CG\JU
Sample : 03645-03
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-07-(1-3)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF072423.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

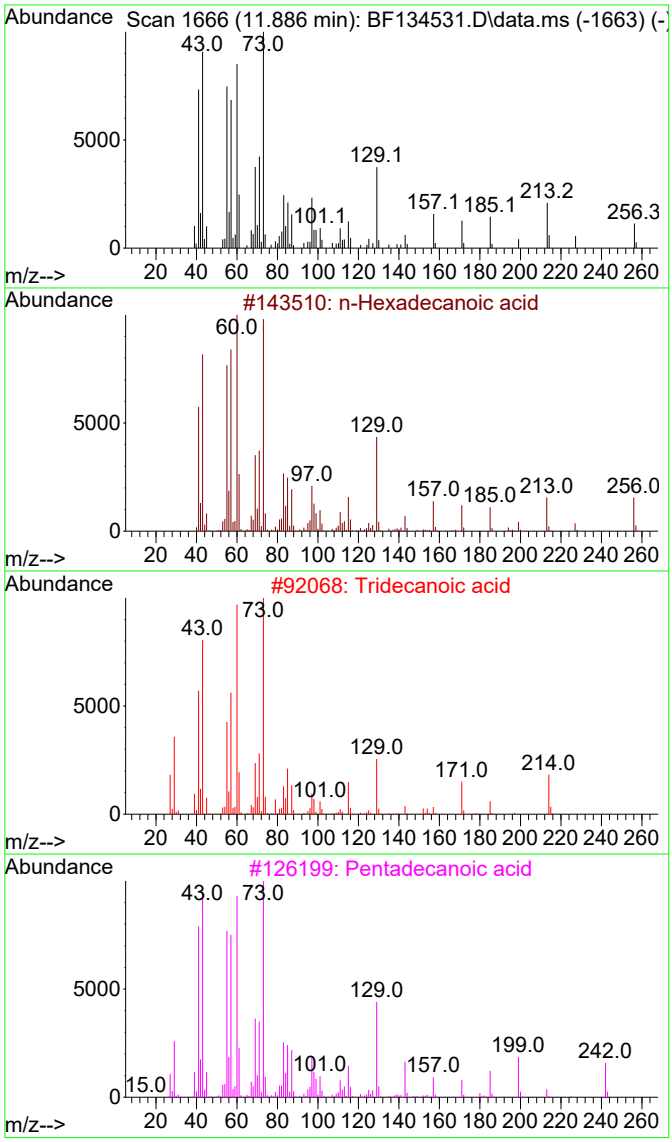
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

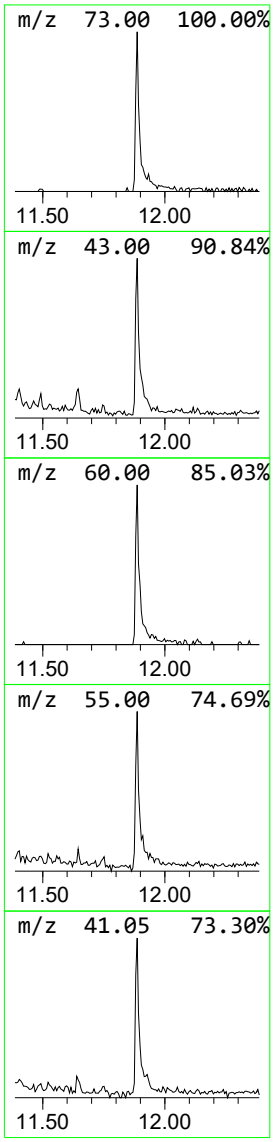
****

Peak Number 2 n-Hexadecanoic acid Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.886	4.86 ng	152996	Phenanthrene-d10	11.357

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	98
2	Tridecanoic acid	214	C13H26O2	000638-53-9	86
3	Pentadecanoic acid	242	C15H30O2	001002-84-2	62
4	Nonanoic acid	158	C9H18O2	000112-05-0	43
5	Octanoic acid	144	C8H16O2	000124-07-2	38





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF072823\
Data File : BF134531.D
Acq On : 29 Jul 2023 00:10
Operator : CG\JU
Sample : 03645-03
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-07-(1-3)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF072423.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

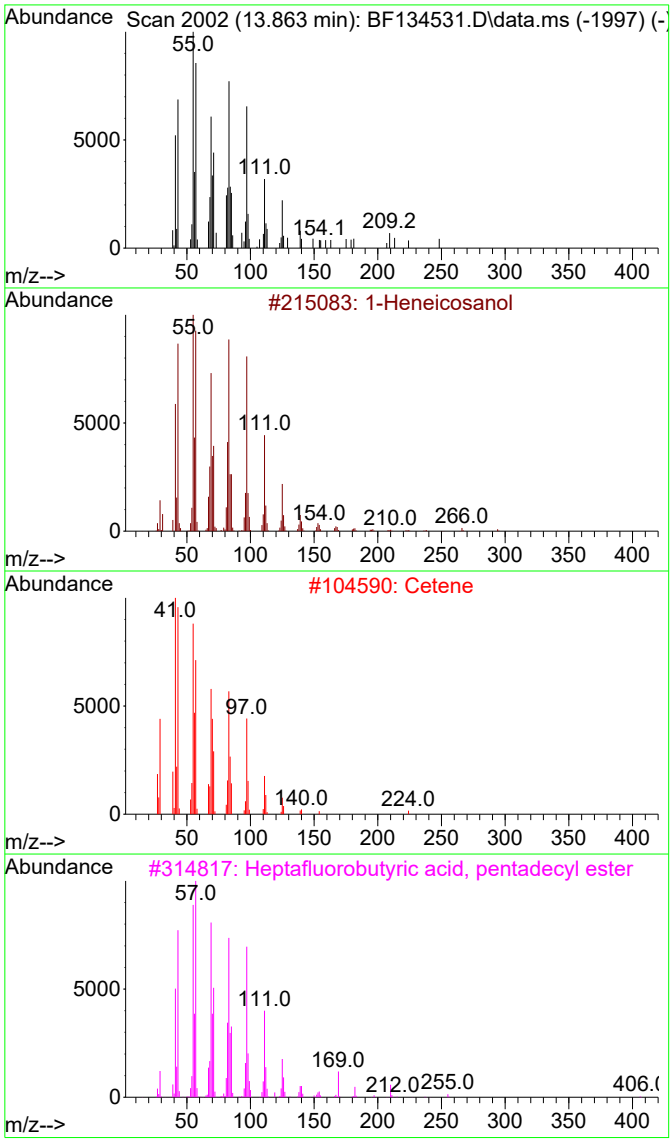
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

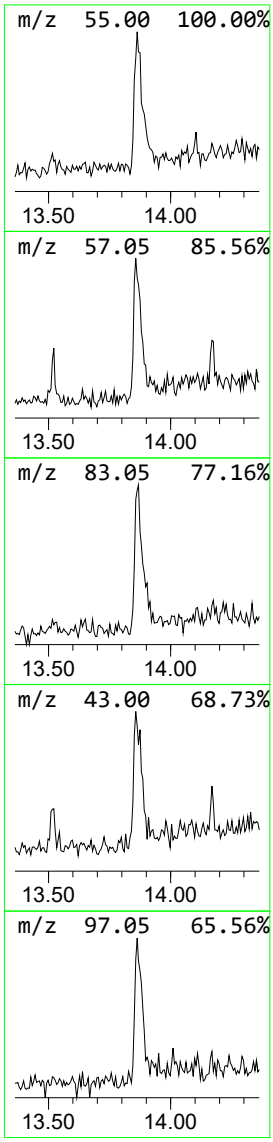
****

Peak Number 3 1-Heneicosanol Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.863	4.47 ng	109583	Chrysene-d12	14.016

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Heneicosanol	312	C21H44O	015594-90-8	93
2	Cetene	224	C16H32	000629-73-2	91
3	Heptafluorobutyric acid, pentade...	424	C19H31F7O2	959261-23-5	90
4	Heptadecyl trifluoroacetate	352	C19H35F3O2	1010351-87-0	90
5	1-Hexacosene	364	C26H52	018835-33-1	90





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF072823\
Data File : BF134531.D
Acq On : 29 Jul 2023 00:10
Operator : CG\JU
Sample : 03645-03
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-07-(1-3)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF072423.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Butane, 2-metho...	2.128	9.9	ng	289330	1	6.828	583996	20.0
n-Hexadecanoic ...	11.886	4.9	ng	152996	4	11.357	629870	20.0
1-Heneicosanol	13.863	4.5	ng	109583	5	14.016	490204	20.0

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/13/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-08-(0.5-2.0)	SDG No.:	O3645
Lab Sample ID:	O3645-04	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	74.6
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF134556.D	1	07/18/23 09:45	08/01/23 19:24	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	440	U	200	440	ug/Kg
108-95-2	Phenol	230	U	99.7	230	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	230	U	120	230	ug/Kg
95-57-8	2-Chlorophenol	230	U	96.5	230	ug/Kg
95-48-7	2-Methylphenol	230	U	150	230	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	230	U	140	230	ug/Kg
98-86-2	Acetophenone	230	U	120	230	ug/Kg
65794-96-9	3+4-Methylphenols	440	U	140	440	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	110	U	79.1	110	ug/Kg
67-72-1	Hexachloroethane	230	U	98.6	230	ug/Kg
98-95-3	Nitrobenzene	230	U	100	230	ug/Kg
78-59-1	Isophorone	230	U	91.3	230	ug/Kg
88-75-5	2-Nitrophenol	230	U	130	230	ug/Kg
105-67-9	2,4-Dimethylphenol	230	U	130	230	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	230	U	150	230	ug/Kg
120-83-2	2,4-Dichlorophenol	230	U	100	230	ug/Kg
91-20-3	Naphthalene	230	U	110	230	ug/Kg
106-47-8	4-Chloroaniline	230	U	140	230	ug/Kg
87-68-3	Hexachlorobutadiene	230	U	110	230	ug/Kg
105-60-2	Caprolactam	440	U	160	440	ug/Kg
59-50-7	4-Chloro-3-methylphenol	230	U	110	230	ug/Kg
91-57-6	2-Methylnaphthalene	230	U	130	230	ug/Kg
77-47-4	Hexachlorocyclopentadiene	440	U	280	440	ug/Kg
88-06-2	2,4,6-Trichlorophenol	230	U	100	230	ug/Kg
95-95-4	2,4,5-Trichlorophenol	230	U	120	230	ug/Kg
92-52-4	1,1-Biphenyl	230	U	120	230	ug/Kg
91-58-7	2-Chloronaphthalene	230	U	110	230	ug/Kg
88-74-4	2-Nitroaniline	230	U	130	230	ug/Kg
131-11-3	Dimethylphthalate	150	J	120	230	ug/Kg
208-96-8	Acenaphthylene	230	U	120	230	ug/Kg
606-20-2	2,6-Dinitrotoluene	230	U	120	230	ug/Kg

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/13/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-08-(0.5-2.0)	SDG No.:	O3645
Lab Sample ID:	O3645-04	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	74.6
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF134556.D	1	07/18/23 09:45	08/01/23 19:24	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
99-09-2	3-Nitroaniline	230	U	130	230	ug/Kg
83-32-9	Acenaphthene	230	U	110	230	ug/Kg
51-28-5	2,4-Dinitrophenol	440	U	240	440	ug/Kg
100-02-7	4-Nitrophenol	440	U	150	440	ug/Kg
132-64-9	Dibenzofuran	230	U	100	230	ug/Kg
121-14-2	2,4-Dinitrotoluene	230	U	130	230	ug/Kg
84-66-2	Diethylphthalate	230	U	120	230	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	230	U	120	230	ug/Kg
86-73-7	Fluorene	230	U	110	230	ug/Kg
100-01-6	4-Nitroaniline	230	U	140	230	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	440	U	120	440	ug/Kg
86-30-6	n-Nitrosodiphenylamine	230	U	130	230	ug/Kg
101-55-3	4-Bromophenyl-phenylether	230	U	130	230	ug/Kg
118-74-1	Hexachlorobenzene	230	U	130	230	ug/Kg
1912-24-9	Atrazine	230	U	130	230	ug/Kg
87-86-5	Pentachlorophenol	440	U	150	440	ug/Kg
85-01-8	Phenanthrene	450		120	230	ug/Kg
120-12-7	Anthracene	230	U	140	230	ug/Kg
86-74-8	Carbazole	230	U	110	230	ug/Kg
84-74-2	Di-n-butylphthalate	230	U	140	230	ug/Kg
206-44-0	Fluoranthene	660		130	230	ug/Kg
129-00-0	Pyrene	610		110	230	ug/Kg
85-68-7	Butylbenzylphthalate	230	U	140	230	ug/Kg
91-94-1	3,3-Dichlorobenzidine	440	U	220	440	ug/Kg
56-55-3	Benzo(a)anthracene	360		110	230	ug/Kg
218-01-9	Chrysene	370		120	230	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	230	U	150	230	ug/Kg
117-84-0	Di-n-octyl phthalate	440	U	160	440	ug/Kg
205-99-2	Benzo(b)fluoranthene	500		110	230	ug/Kg
207-08-9	Benzo(k)fluoranthene	150	J	120	230	ug/Kg
50-32-8	Benzo(a)pyrene	350		130	230	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	190	J	140	230	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	230	U	130	230	ug/Kg

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/13/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-08-(0.5-2.0)	SDG No.:	O3645
Lab Sample ID:	O3645-04	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	74.6
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF134556.D	1	07/18/23 09:45	08/01/23 19:24	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
191-24-2	Benzo(g,h,i)perylene	210	J	120	230	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	230	U	120	230	ug/Kg
123-91-1	1,4-Dioxane	230	U	160	230	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	230	U	110	230	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	94.6		18 - 112	63%	SPK: 150
13127-88-3	Phenol-d6	94.3		21 - 104	63%	SPK: 150
4165-60-0	Nitrobenzene-d5	72.6		27 - 109	73%	SPK: 100
321-60-8	2-Fluorobiphenyl	65.8		30 - 103	66%	SPK: 100
118-79-6	2,4,6-Tribromophenol	96.0		10 - 121	64%	SPK: 150
1718-51-0	Terphenyl-d14	65.2		21 - 107	65%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	187000	6.792			
1146-65-2	Naphthalene-d8	737000	8.069			
15067-26-2	Acenaphthene-d10	366000	9.822			
1517-22-2	Phenanthrene-d10	647000	11.31			
1719-03-5	Chrysene-d12	366000	13.951			
1520-96-3	Perylene-d12	423000	15.41			
TENTATIVE IDENTIFIED COMPOUNDS						
074645-98-0	Dodecane, 2,7,10-trimethyl-	91.1	J		10.8	ug/Kg
000057-10-3	n-Hexadecanoic acid	310	J		11.9	ug/Kg
000090-60-8	Benzaldehyde, 3,5-dichloro-2-hydro	120	J		11.9	ug/Kg
1000351-83-7	Tetracosyl heptafluorobutyrate	140	J		13.8	ug/Kg
000192-97-2	Benzo[e]pyrene	100	J		15.1	ug/Kg
000198-55-0	Perylene	270	J		15.3	ug/Kg

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/13/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-08-(0.5-2.0)	SDG No.:	O3645
Lab Sample ID:	O3645-04	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	74.6
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF134556.D	1	07/18/23 09:45	08/01/23 19:24	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)

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

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080123\
Data File : BF134556.D
Acq On : 01 Aug 2023 19:24
Operator : CG\JU
Sample : 03645-04
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-08-(0.5-2.0)

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

Quant Time: Aug 02 02:45:19 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 02 02:20:34 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.792	152	186884	20.000	ng		0.00
21) Naphthalene-d8	8.069	136	736666	20.000	ng	#	0.00
39) Acenaphthene-d10	9.822	164	365569	20.000	ng		0.00
64) Phenanthrene-d10	11.310	188	647165	20.000	ng	#	0.00
76) Chrysene-d12	13.951	240	366423	20.000	ng	#	-0.01
86) Perylene-d12	15.410	264	422938	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.416	112	1163632	94.649	ng		0.00
7) Phenol-d6	6.416	99	1482483	94.331	ng		-0.01
23) Nitrobenzene-d5	7.351	82	856089	72.624	ng		0.00
42) 2,4,6-Tribromophenol	10.610	330	357688	95.982	ng		0.00
45) 2-Fluorobiphenyl	9.145	172	1445788	65.758	ng		0.00
79) Terphenyl-d14	12.904	244	1355450	65.211	ng		0.00
Target Compounds							Qvalue
50) Dimethylphthalate	9.539	163	80947	3.249	ng		98
71) Phenanthrene	11.333	178	345926	10.063	ng		99
75) Fluoranthene	12.521	202	536565	14.777	ng		97
78) Pyrene	12.751	202	434249	13.696	ng		97
81) Benzo(a)anthracene	13.939	228	210211	8.023	ng		99
83) Chrysene	13.974	228	209562	8.210	ng		97
87) Indeno(1,2,3-cd)pyrene	16.868	276	107020	4.302	ng	#	93
88) Benzo(b)fluoranthene	14.986	252	288590m	11.188	ng		
89) Benzo(k)fluoranthene	15.010	252	84683m	3.296	ng		
90) Benzo(a)pyrene	15.345	252	186837	7.769	ng	#	95
92) Benzo(g,h,i)perylene	17.309	276	96200	4.691	ng	#	91

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

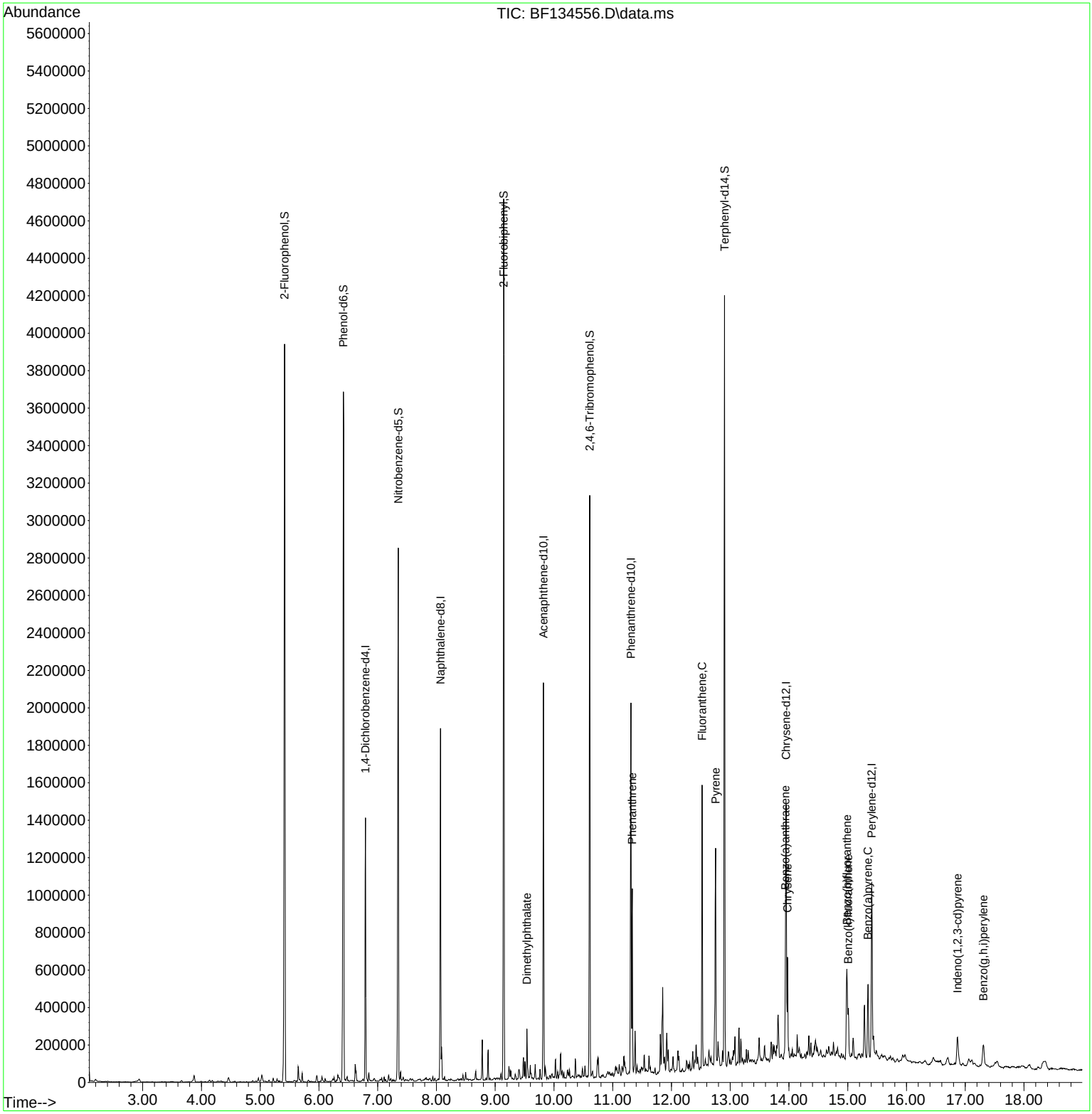
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080123\
Data File : BF134556.D
Acq On : 01 Aug 2023 19:24
Operator : CG\JU
Sample : 03645-04
Misc :
ALS Vial : 11 Sample Multiplier: 1

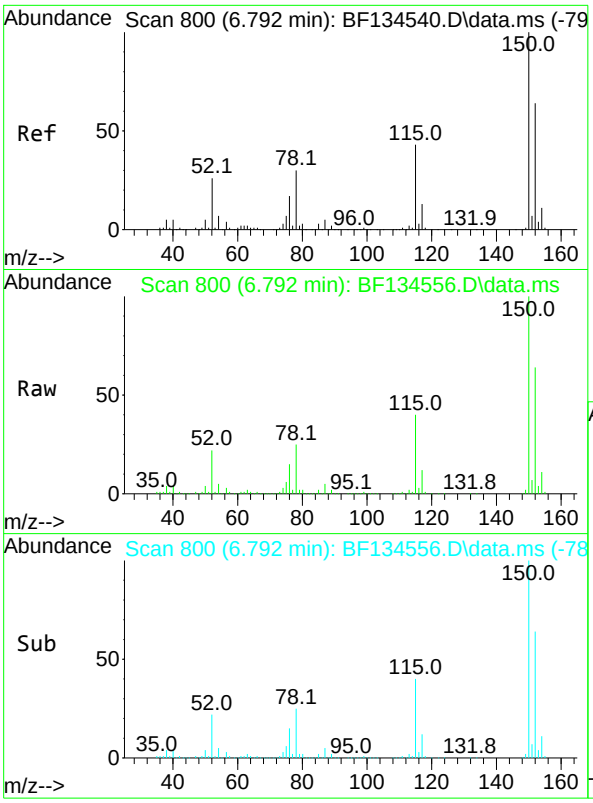
Quant Time: Aug 02 02:45:19 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 02 02:20:34 2023
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SB-08-(0.5-2.0)

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

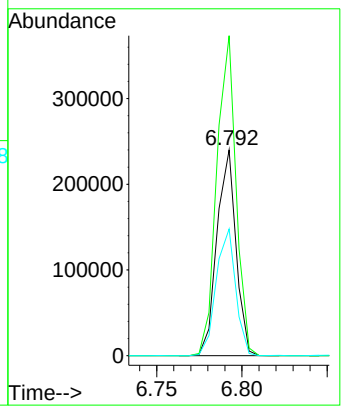




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.792 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF134556.D
Acq: 01 Aug 2023 19:24

Tgt Ion:152 Resp: 18688

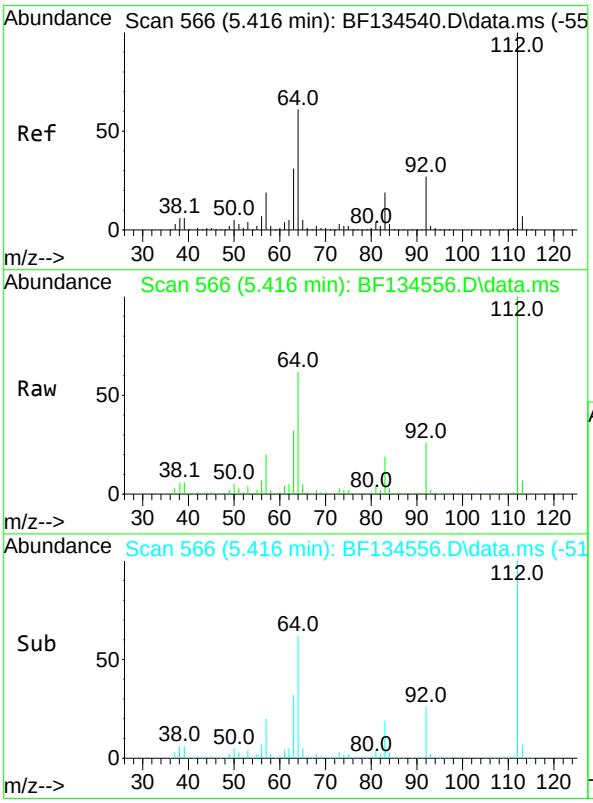
Ion	Ratio	Lower	Upper
152	100		
150	155.5	128.3	192.5
115	61.6	52.4	78.6



Instrument :
BNA_F
ClientSampleId :
SB-08-(0.5-2.0)

Manual Integrations
APPROVED

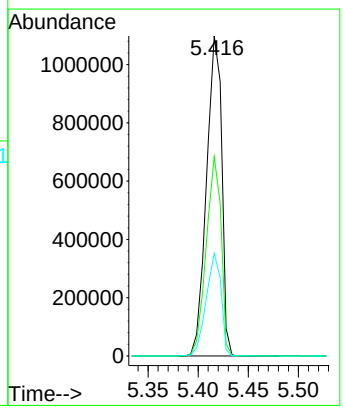
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

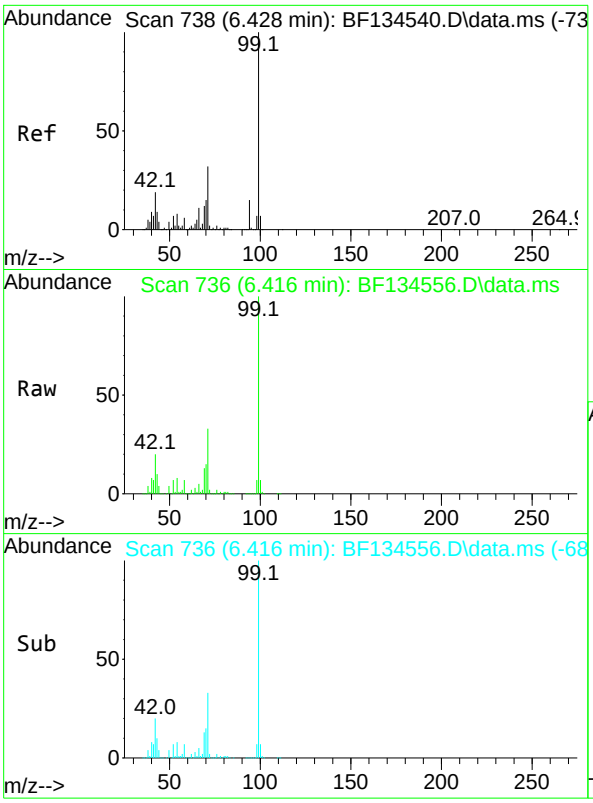


#5
2-Fluorophenol
Concen: 94.649 ng
RT: 5.416 min Scan# 566
Delta R.T. 0.000 min
Lab File: BF134556.D
Acq: 01 Aug 2023 19:24

Tgt Ion:112 Resp: 1163632

Ion	Ratio	Lower	Upper
112	100		
64	62.3	44.9	67.3
63	32.1	25.4	38.0

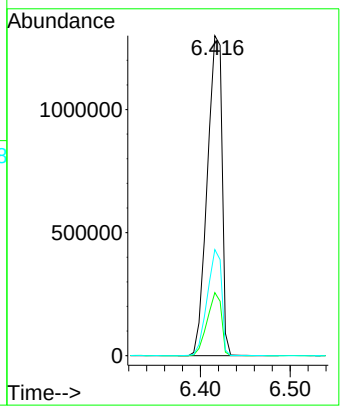




#7
Phenol-d6
Concen: 94.331 ng
RT: 6.416 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF134556.D
Acq: 01 Aug 2023 19:24

Tgt Ion: 99 Resp: 148248

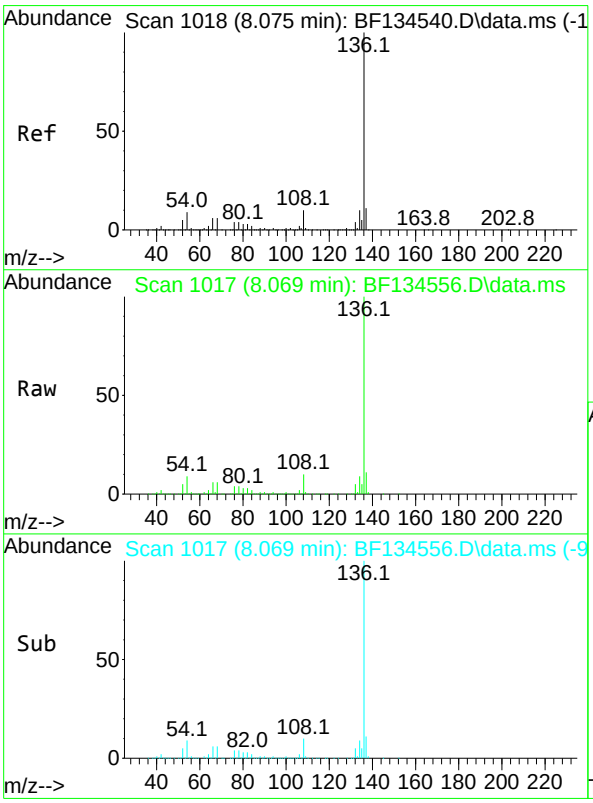
Ion	Ratio	Lower	Upper
99	100		
42	19.7	18.7	28.1
71	33.1	36.4	54.6#



Instrument :
BNA_F
ClientSampleId :
SB-08-(0.5-2.0)

Manual Integrations
APPROVED

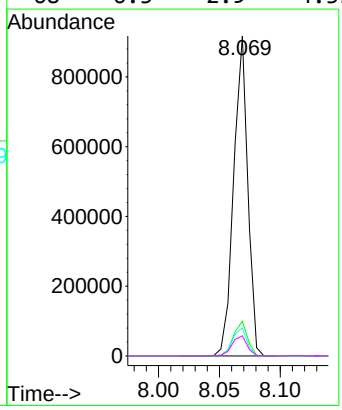
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

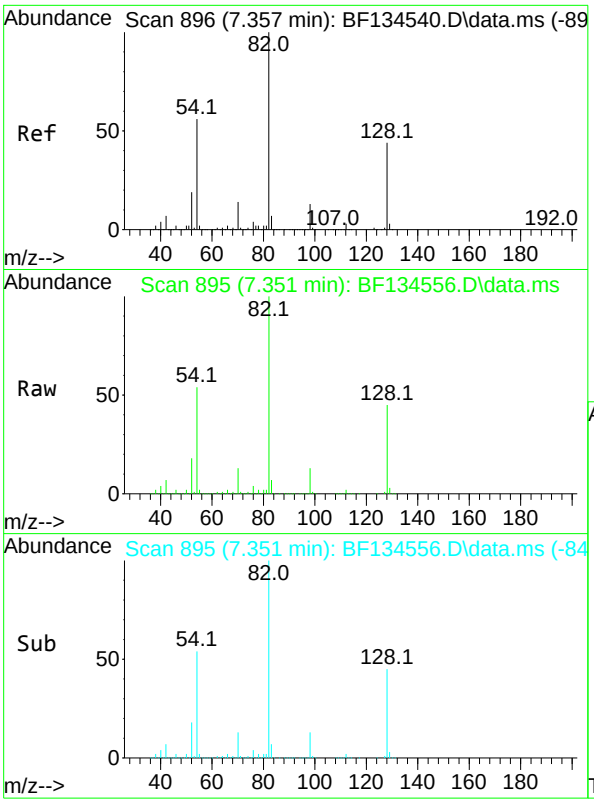


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.069 min Scan# 1017
Delta R.T. -0.006 min
Lab File: BF134556.D
Acq: 01 Aug 2023 19:24

Tgt Ion:136 Resp: 736666

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.4	12.6
54	8.7	5.2	7.8#
68	6.3	2.9	4.3#

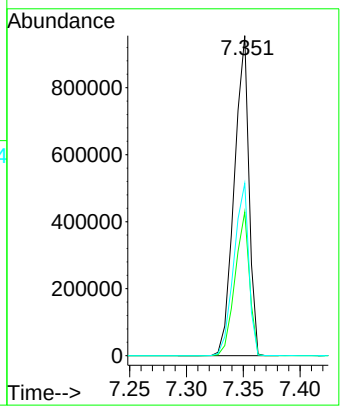




#23
Nitrobenzene-d5
Concen: 72.624 ng
RT: 7.351 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF134556.D
Acq: 01 Aug 2023 19:24

Tgt Ion: 82 Resp: 85608

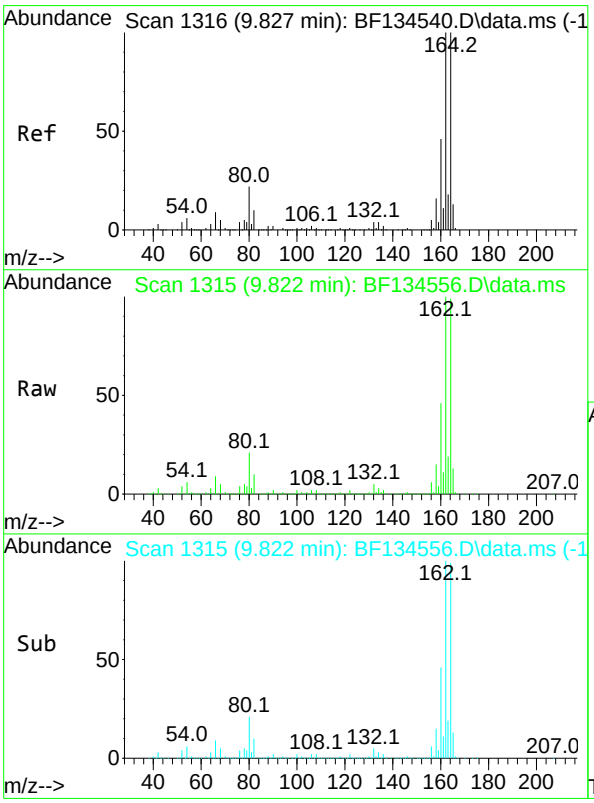
Ion	Ratio	Lower	Upper
82	100		
128	44.9	34.3	51.5
54	53.8	43.8	65.6



Instrument :
BNA_F
ClientSampleId :
SB-08-(0.5-2.0)

Manual Integrations
APPROVED

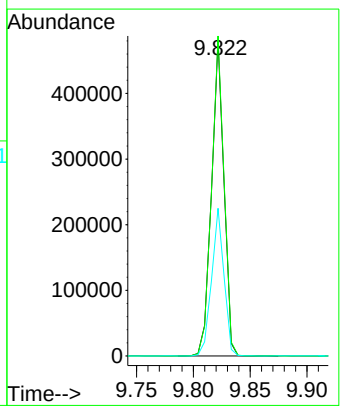
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

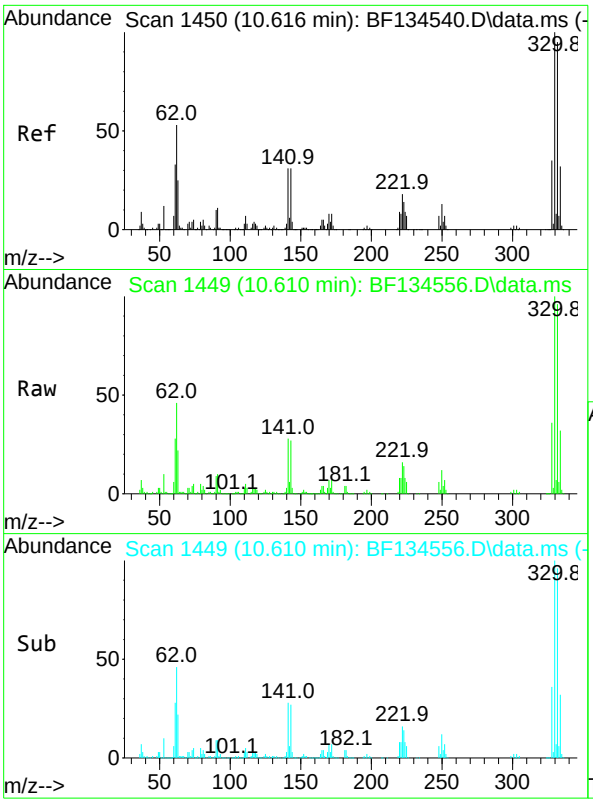


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.822 min Scan# 1315
Delta R.T. -0.006 min
Lab File: BF134556.D
Acq: 01 Aug 2023 19:24

Tgt Ion:164 Resp: 365569

Ion	Ratio	Lower	Upper
164	100		
162	101.3	82.6	123.8
160	46.7	37.2	55.8

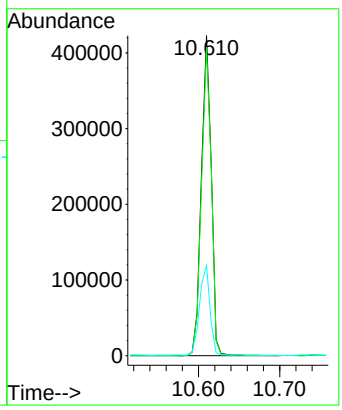




#42
2,4,6-Tribromophenol
Concen: 95.982 ng
RT: 10.610 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF134556.D
Acq: 01 Aug 2023 19:24

Tgt Ion:330 Resp: 35768

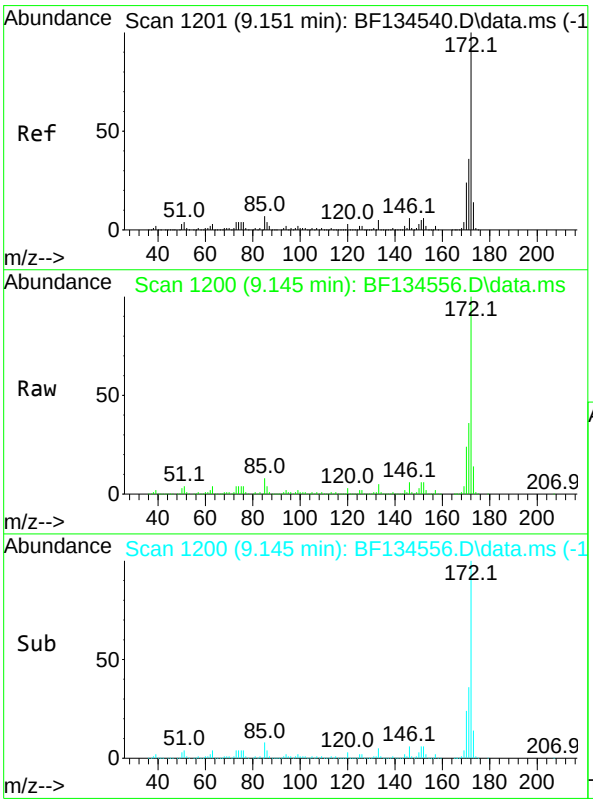
Ion	Ratio	Lower	Upper
330	100		
332	96.2	78.8	118.2
141	29.9	25.4	38.2



Instrument :
BNA_F
ClientSampleId :
SB-08-(0.5-2.0)

Manual Integrations
APPROVED

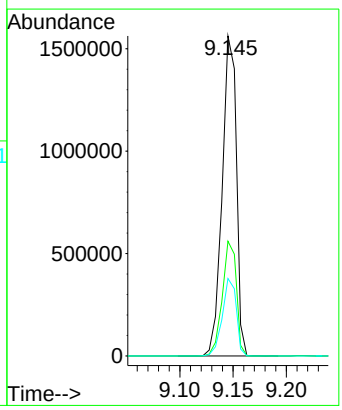
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

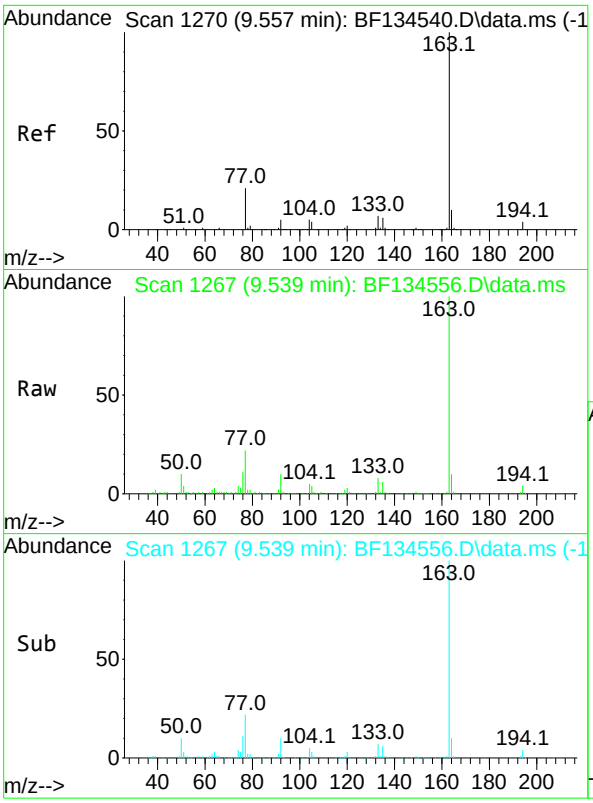


#45
2-Fluorobiphenyl
Concen: 65.758 ng
RT: 9.145 min Scan# 1200
Delta R.T. -0.006 min
Lab File: BF134556.D
Acq: 01 Aug 2023 19:24

Tgt Ion:172 Resp: 1445788

Ion	Ratio	Lower	Upper
172	100		
171	35.9	28.8	43.2
170	24.2	18.7	28.1

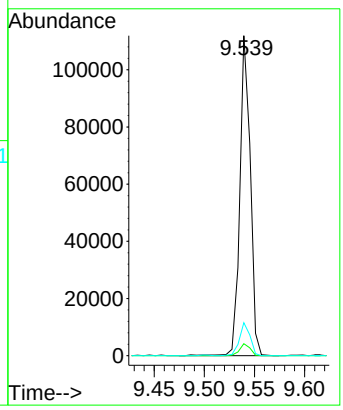




#50
Dimethylphthalate
Concen: 3.249 ng
RT: 9.539 min Scan# 1
Delta R.T. -0.018 min
Lab File: BF134556.D
Acq: 01 Aug 2023 19:24

Tgt Ion:163 Resp: 8094

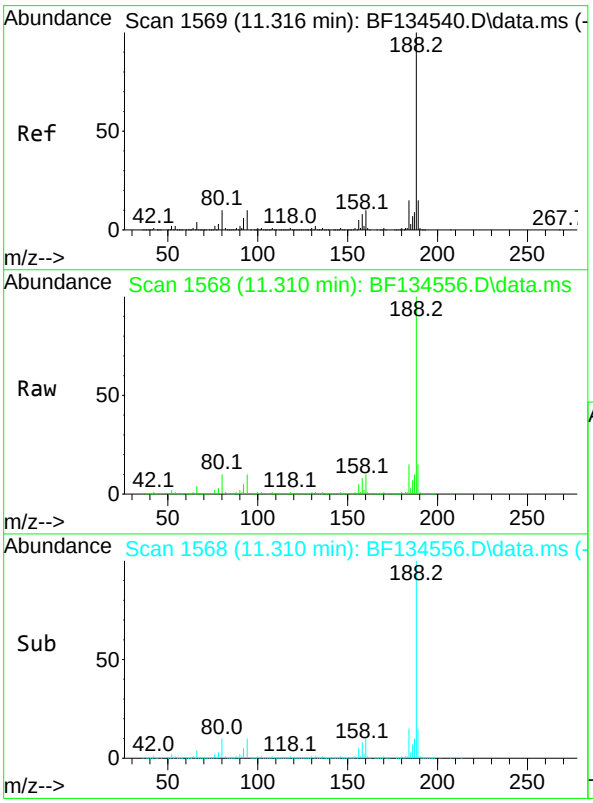
Ion	Ratio	Lower	Upper
163	100		
194	3.7	3.3	4.9
164	10.3	7.5	11.3



Instrument :
BNA_F
ClientSampleId :
SB-08-(0.5-2.0)

Manual Integrations
APPROVED

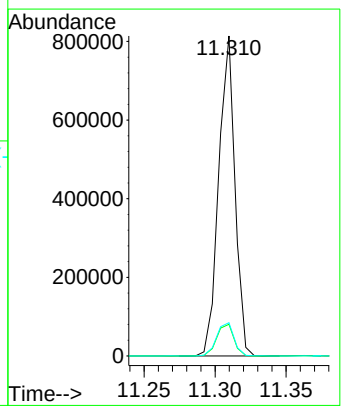
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

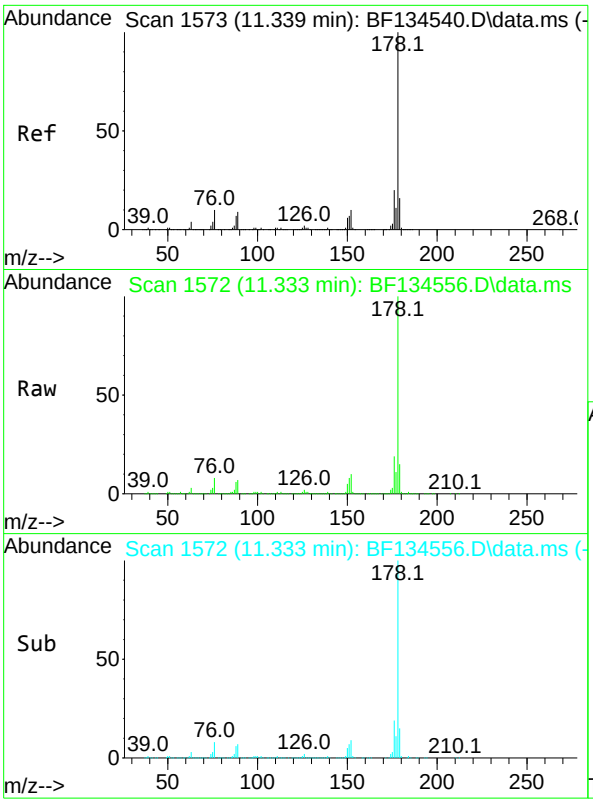


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.310 min Scan# 1568
Delta R.T. -0.006 min
Lab File: BF134556.D
Acq: 01 Aug 2023 19:24

Tgt Ion:188 Resp: 647165

Ion	Ratio	Lower	Upper
188	100		
94	9.9	5.1	7.7#
80	10.4	6.6	9.8#

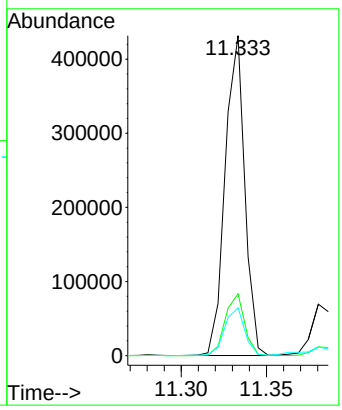




#71
Phenanthrene
Concen: 10.063 ng
RT: 11.333 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF134556.D
Acq: 01 Aug 2023 19:24

Tgt Ion:178 Resp: 34592

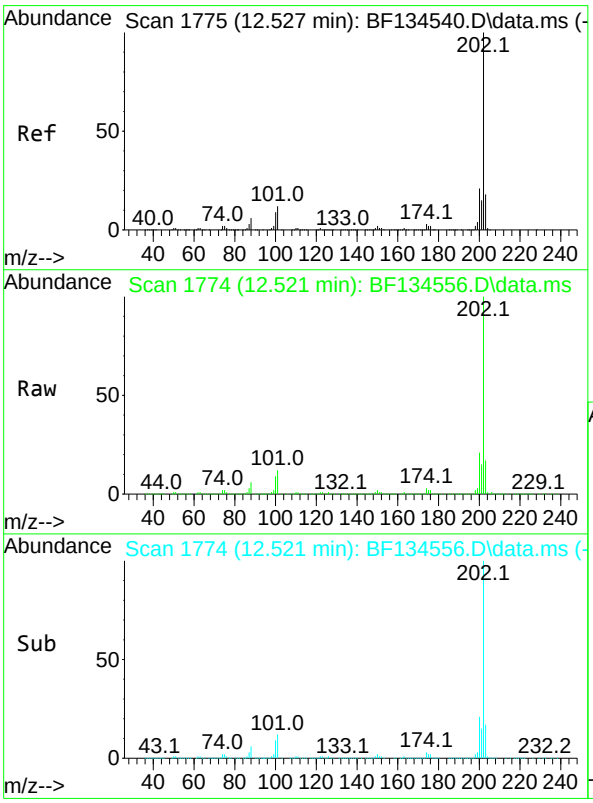
Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.8	23.6
179	14.9	12.7	19.1



Instrument :
BNA_F
ClientSampleId :
SB-08-(0.5-2.0)

Manual Integrations
APPROVED

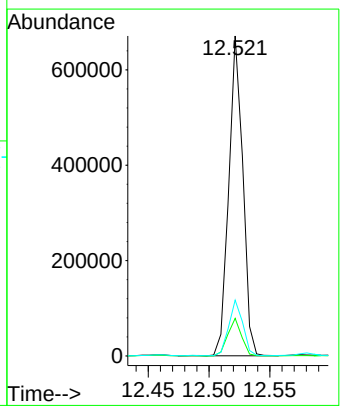
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

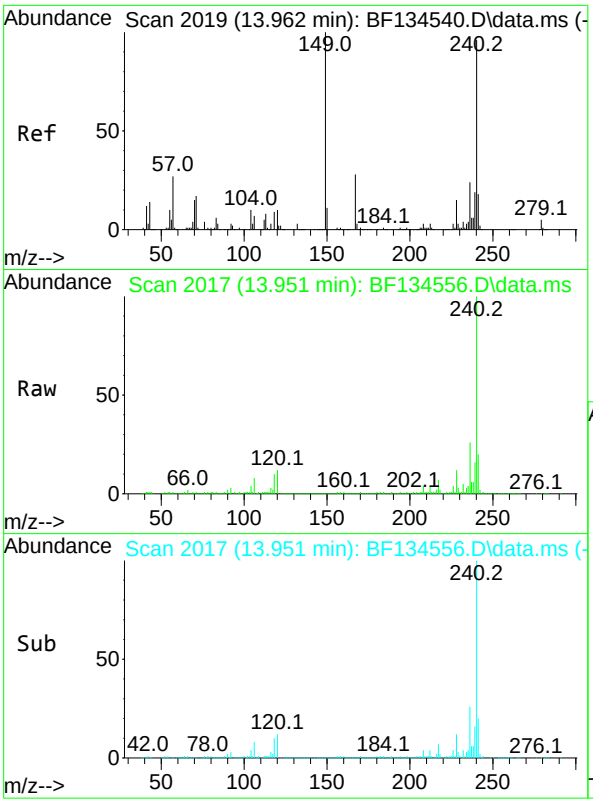


#75
Fluoranthene
Concen: 14.777 ng
RT: 12.521 min Scan# 1774
Delta R.T. -0.006 min
Lab File: BF134556.D
Acq: 01 Aug 2023 19:24

Tgt Ion:202 Resp: 536565

Ion	Ratio	Lower	Upper
202	100		
101	11.8	0.0	28.5
203	17.4	0.0	37.5

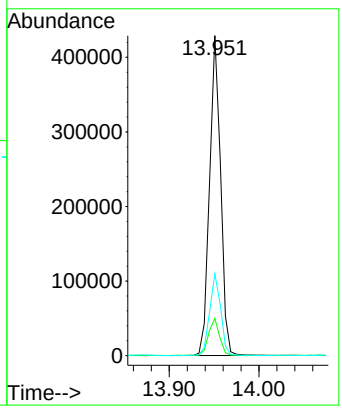




#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.951 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF134556.D
Acq: 01 Aug 2023 19:24

Tgt Ion:240 Resp: 36642

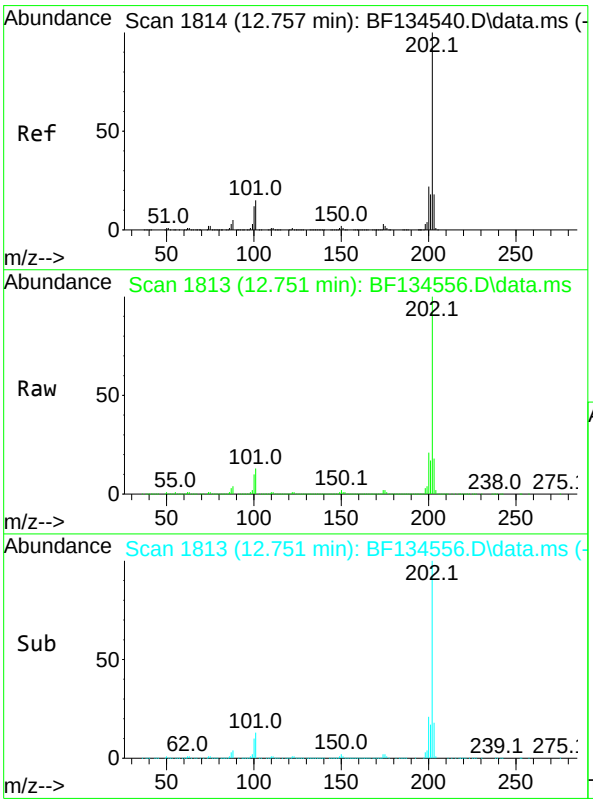
Ion	Ratio	Lower	Upper
240	100		
120	11.6	6.6	10.0
236	25.6	20.2	30.2



Instrument :
BNA_F
ClientSampleId :
SB-08-(0.5-2.0)

Manual Integrations
APPROVED

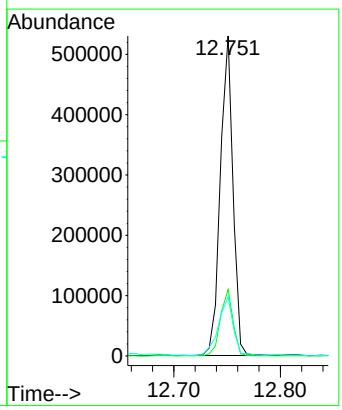
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

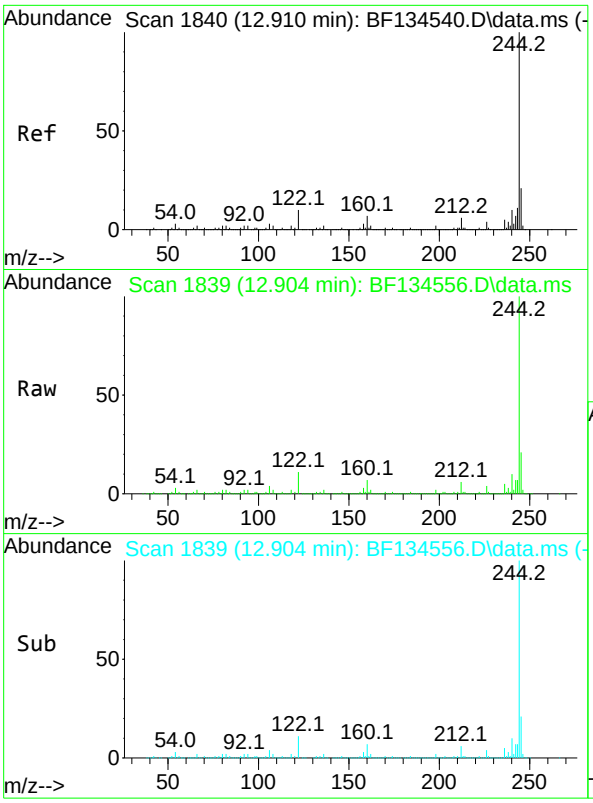


#78
Pyrene
Concen: 13.696 ng
RT: 12.751 min Scan# 1813
Delta R.T. -0.006 min
Lab File: BF134556.D
Acq: 01 Aug 2023 19:24

Tgt Ion:202 Resp: 434249

Ion	Ratio	Lower	Upper
202	100		
200	20.8	15.8	23.8
203	18.4	13.5	20.3

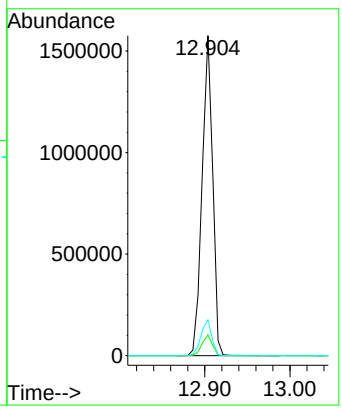




#79
Terphenyl-d14
Concen: 65.211 ng
RT: 12.904 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF134556.D
Acq: 01 Aug 2023 19:24

Tgt Ion:244 Resp: 135545

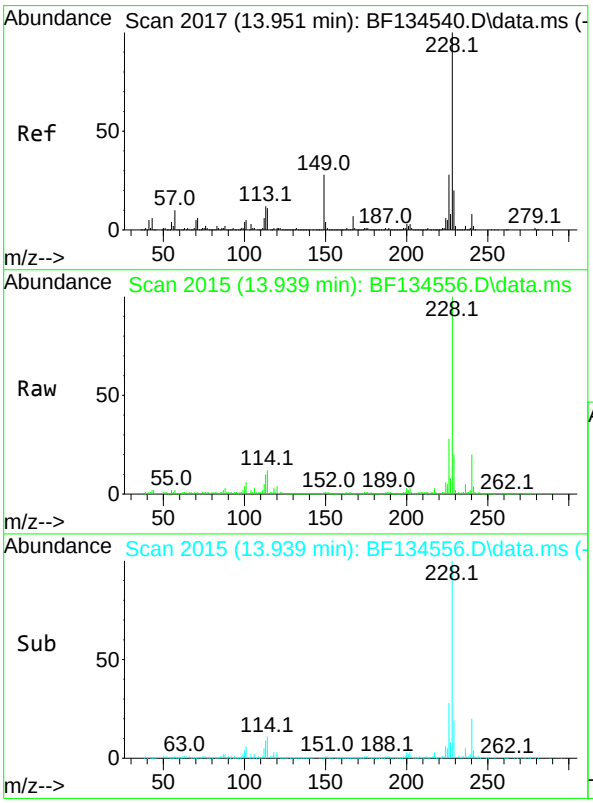
Ion	Ratio	Lower	Upper
244	100		
212	6.4	5.6	8.4
122	11.2	8.0	12.0



Instrument :
BNA_F
ClientSampleId :
SB-08-(0.5-2.0)

Manual Integrations
APPROVED

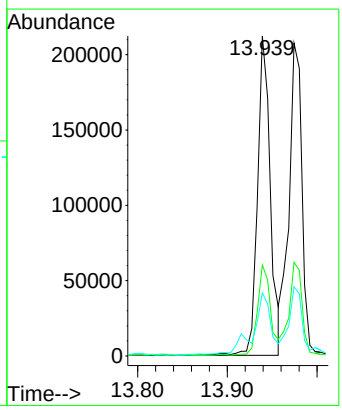
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

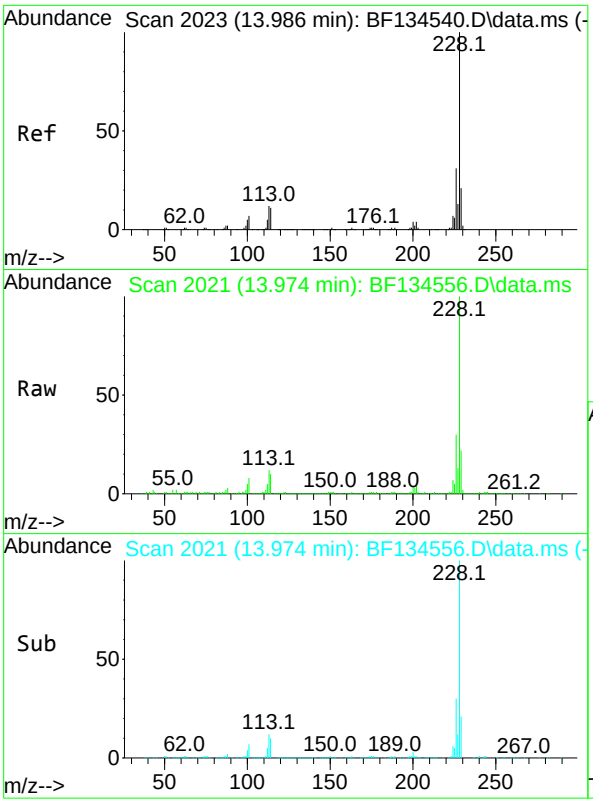


#81
Benzo(a)anthracene
Concen: 8.023 ng
RT: 13.939 min Scan# 2015
Delta R.T. -0.012 min
Lab File: BF134556.D
Acq: 01 Aug 2023 19:24

Tgt Ion:228 Resp: 210211

Ion	Ratio	Lower	Upper
228	100		
226	28.5	22.3	33.5
229	19.7	15.8	23.6

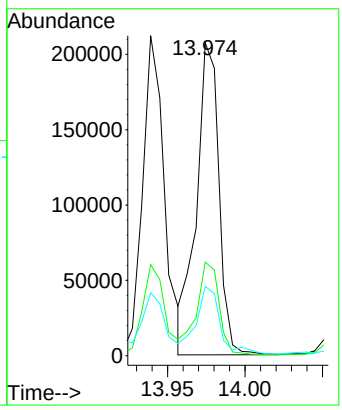




#83
Chrysene
Concen: 8.210 ng
RT: 13.974 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF134556.D
Acq: 01 Aug 2023 19:24

Tgt Ion:228 Resp: 20956

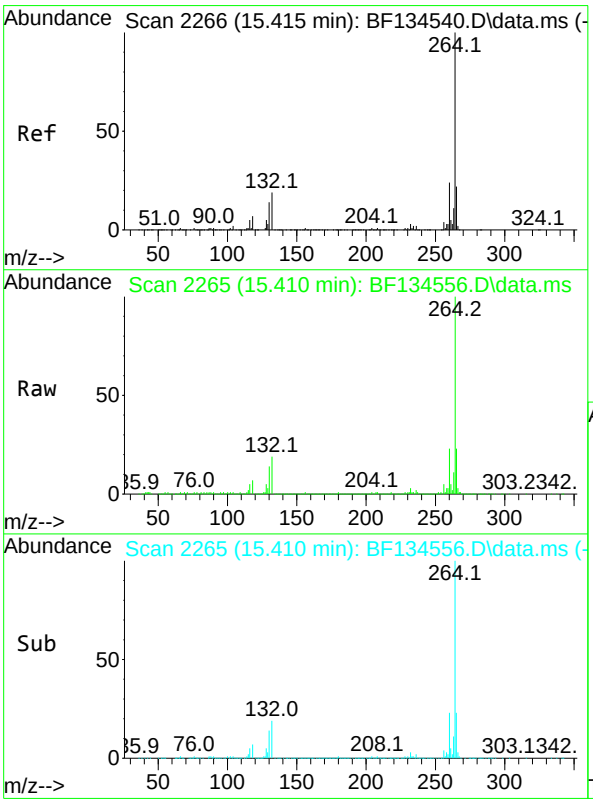
Ion	Ratio	Lower	Upper
228	100		
226	29.9	24.5	36.7
229	22.2	15.8	23.8



Instrument :
BNA_F
ClientSampleId :
SB-08-(0.5-2.0)

Manual Integrations
APPROVED

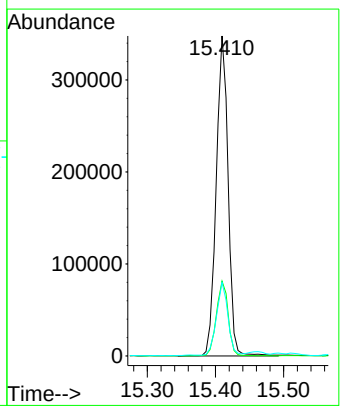
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

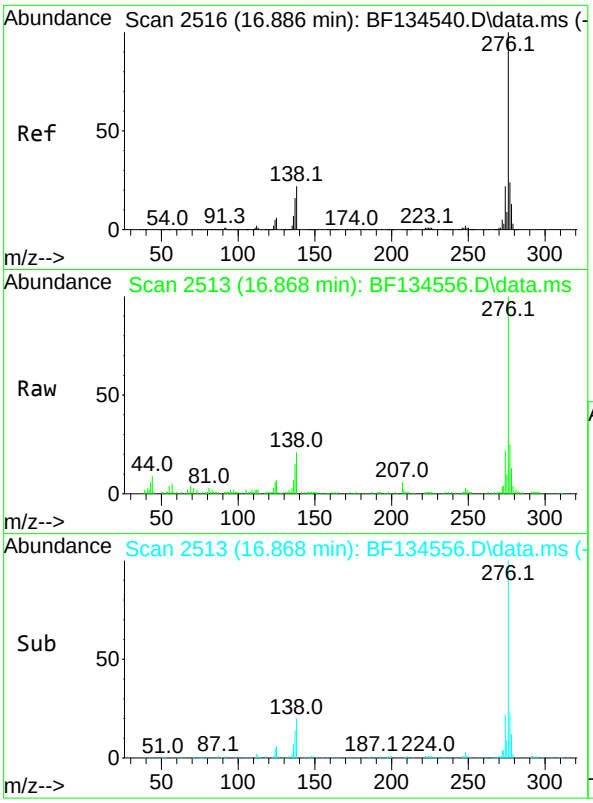


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.410 min Scan# 2265
Delta R.T. -0.006 min
Lab File: BF134556.D
Acq: 01 Aug 2023 19:24

Tgt Ion:264 Resp: 422938

Ion	Ratio	Lower	Upper
264	100		
260	23.4	18.4	27.6
265	23.0	15.8	23.8

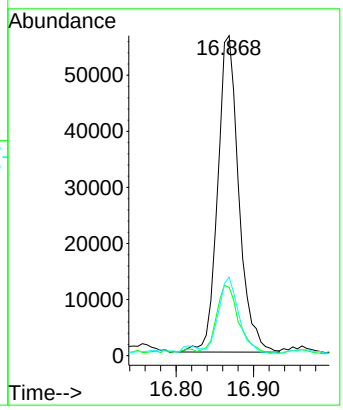




#87
Indeno(1,2,3-cd)pyrene
Concen: 4.302 ng
RT: 16.868 min Scan# 2
Delta R.T. -0.018 min
Lab File: BF134556.D
Acq: 01 Aug 2023 19:24

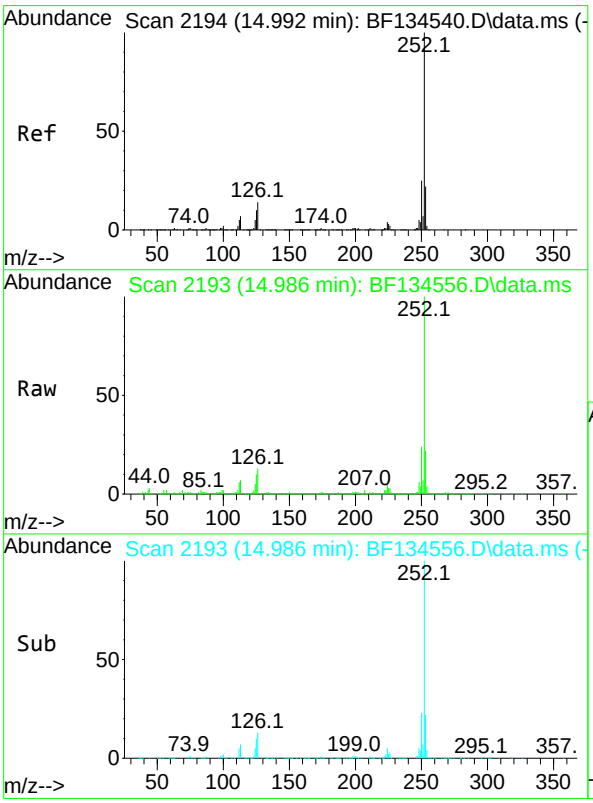
Tgt Ion:276 Resp: 10702

Ion	Ratio	Lower	Upper
276	100		
138	23.3	14.2	21.4#
277	23.3	19.9	29.9



Instrument :
BNA_F
ClientSampleId :
SB-08-(0.5-2.0)

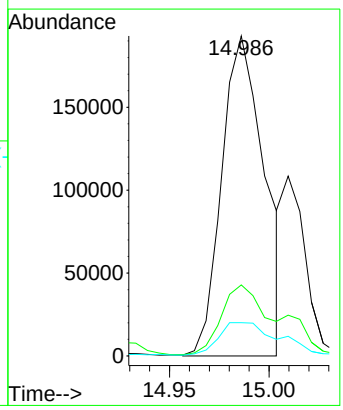
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

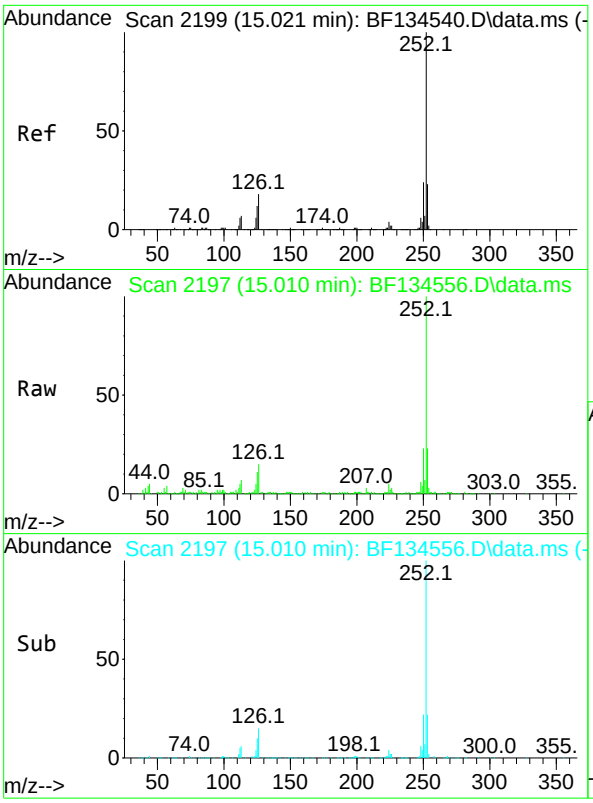


#88
Benzo(b)fluoranthene
Concen: 11.188 ng m
RT: 14.986 min Scan# 2193
Delta R.T. -0.006 min
Lab File: BF134556.D
Acq: 01 Aug 2023 19:24

Tgt Ion:252 Resp: 288590

Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.3	25.9
125	10.4	6.0	9.0#

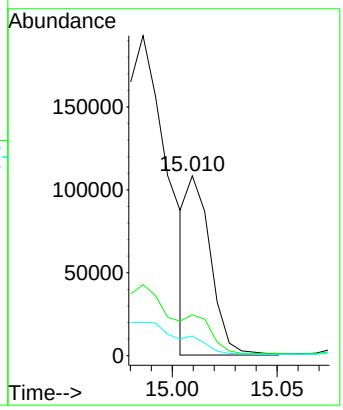




#89
Benzo(k)fluoranthene
Concen: 3.296 ng m
RT: 15.010 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF134556.D
Acq: 01 Aug 2023 19:24

Tgt Ion:252 Resp: 8468

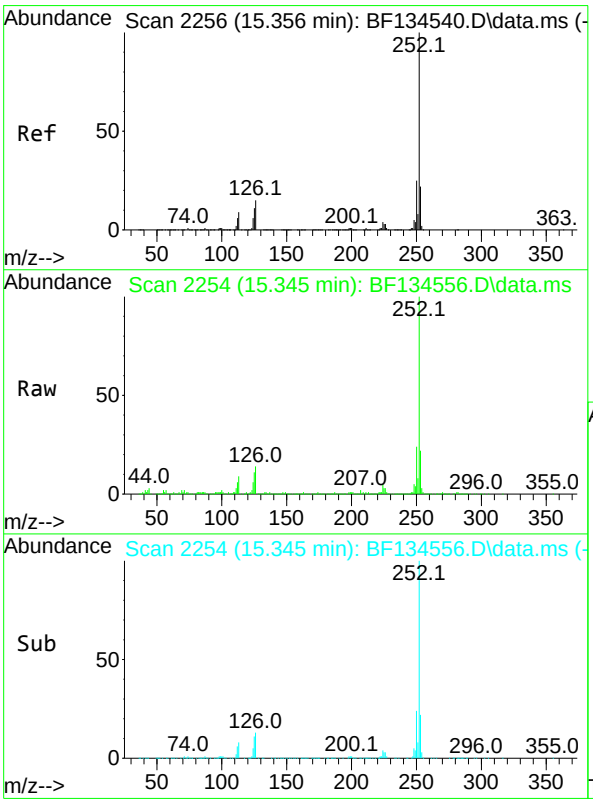
Ion	Ratio	Lower	Upper
252	100		
253	22.7	17.9	26.9
125	10.9	6.3	9.5#



Instrument :
BNA_F
ClientSampleId :
SB-08-(0.5-2.0)

Manual Integrations
APPROVED

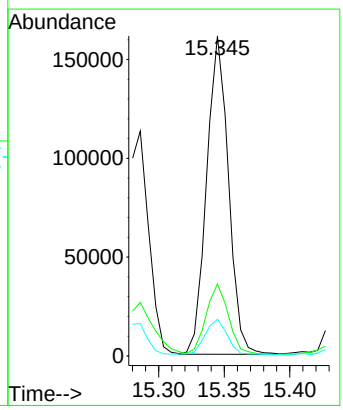
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

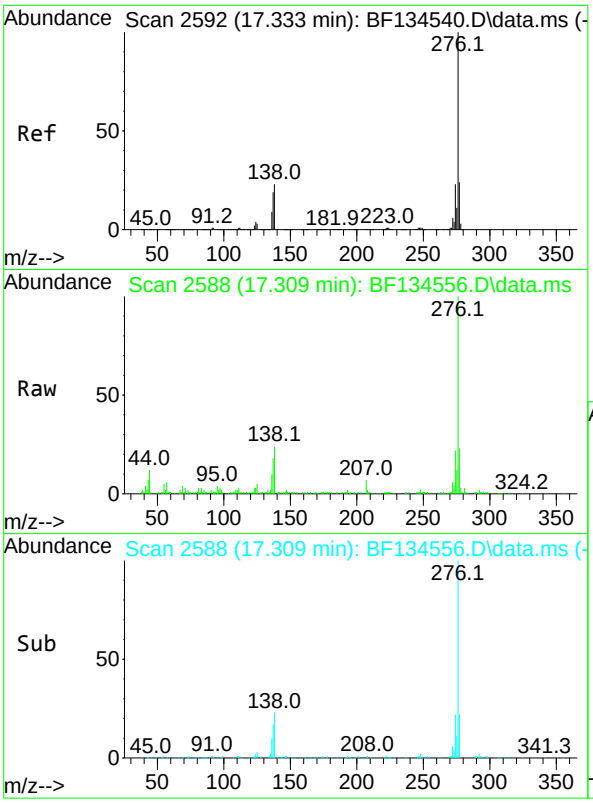


#90
Benzo(a)pyrene
Concen: 7.769 ng
RT: 15.345 min Scan# 2254
Delta R.T. -0.012 min
Lab File: BF134556.D
Acq: 01 Aug 2023 19:24

Tgt Ion:252 Resp: 186837

Ion	Ratio	Lower	Upper
252	100		
253	22.5	17.0	25.4
125	11.4	6.2	9.4#

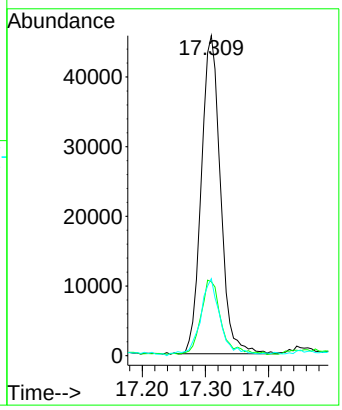




#92
Benzo(g,h,i)perylene
Concen: 4.691 ng
RT: 17.309 min Scan# 2
Delta R.T. -0.023 min
Lab File: BF134556.D
Acq: 01 Aug 2023 19:24

Tgt Ion:276 Resp: 9620

Ion	Ratio	Lower	Upper
276	100		
277	23.1	19.0	28.6
138	24.0	12.2	18.2



Instrument :
BNA_F
ClientSampleId :
SB-08-(0.5-2.0)

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080123\
Data File : BF134556.D
Acq On : 01 Aug 2023 19:24
Operator : CG\JU
Sample : 03645-04
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-08-(0.5-2.0)

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF134556.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.875	296	304	309	rVB	34596	55900	1.32%	0.130%
2	5.028	493	500	505	rVB2	33179	47526	1.12%	0.110%
3	5.416	558	566	569	rBV	3939044	4173360	98.49%	9.688%
4	5.645	602	605	608	rBV	78349	73398	1.73%	0.170%
5	6.416	729	736	739	rBV	3683631	4193869	98.97%	9.736%
6	6.616	768	770	780	rVB2	91995	116379	2.75%	0.270%
7	6.792	796	800	803	rBV	1404546	1150277	27.15%	2.670%
8	6.851	807	810	814	rBV3	44341	46268	1.09%	0.107%
9	7.351	885	895	898	rBV	2847544	2618250	61.79%	6.078%
10	8.069	1012	1017	1019	rBV	1876372	1573810	37.14%	3.654%
11	8.086	1019	1020	1023	rVB	174492	113187	2.67%	0.263%
12	8.781	1132	1138	1141	rVB	216176	175520	4.14%	0.407%
13	8.881	1151	1155	1158	rBV	161278	136881	3.23%	0.318%
14	9.145	1195	1200	1203	rBV	4703821	4237450	100.00%	9.837%
15	9.233	1212	1215	1218	rBV2	67670	71708	1.69%	0.166%
16	9.404	1241	1244	1249	rVB2	51396	73230	1.73%	0.170%
17	9.481	1254	1257	1259	rVV	111772	99728	2.35%	0.232%
18	9.504	1259	1261	1264	rVB	88878	71031	1.68%	0.165%
19	9.539	1264	1267	1272	rBV	262546	223964	5.29%	0.520%
20	9.680	1286	1291	1296	rBV	81010	68864	1.63%	0.160%
21	9.822	1309	1315	1318	rBV	2117973	1663140	39.25%	3.861%
22	9.851	1318	1320	1324	rVB3	62873	66403	1.57%	0.154%
23	10.028	1346	1350	1353	rVB	100485	91570	2.16%	0.213%
24	10.116	1361	1365	1367	rBV	110777	99157	2.34%	0.230%
25	10.233	1380	1385	1386	rBV2	44682	49542	1.17%	0.115%
26	10.363	1404	1407	1410	rBV2	103909	93927	2.22%	0.218%
27	10.527	1432	1435	1441	rVB	60332	57420	1.36%	0.133%
28	10.610	1444	1449	1452	rVV	3109235	2754689	65.01%	6.395%
29	10.657	1452	1457	1461	rVB3	35986	51552	1.22%	0.120%
30	10.751	1467	1473	1478	rBV2	106863	168302	3.97%	0.391%
31	10.916	1495	1501	1504	rBV5	30244	57549	1.36%	0.134%
32	11.051	1518	1524	1525	rBV4	53473	68638	1.62%	0.159%
33	11.110	1532	1534	1539	rVB3	58521	61524	1.45%	0.143%
34	11.157	1539	1542	1545	rBV2	46649	62765	1.48%	0.146%
35	11.192	1545	1548	1552	rBV2	79399	103645	2.45%	0.241%
36	11.310	1564	1568	1570	rBV	1975516	1650172	38.94%	3.831%

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080123\
Data File : BF134556.D
Acq On : 01 Aug 2023 19:24
Operator : CG\JU
Sample : 03645-04
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-08-(0.5-2.0)

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

37	11.333	1570	1572	1575	rVV	984228	743950	17.56%	1.727%
38	11.380	1575	1580	1583	rVB	225110	210935	4.98%	0.490%
39	11.539	1604	1607	1609	rVB	86893	77720	1.83%	0.180%
40	11.616	1617	1620	1623	rBV2	84378	81001	1.91%	0.188%
41	11.810	1650	1653	1655	rBV	198997	163898	3.87%	0.380%
42	11.851	1655	1660	1663	rVV2	450028	571945	13.50%	1.328%
43	11.886	1663	1666	1668	rVV	78519	86320	2.04%	0.200%
44	11.922	1668	1672	1674	rVV	207727	218548	5.16%	0.507%
45	11.945	1674	1676	1681	rVB	118458	99364	2.34%	0.231%
46	12.027	1686	1690	1695	rVB3	81903	91246	2.15%	0.212%
47	12.110	1700	1704	1705	rVV	112672	105115	2.48%	0.244%
48	12.127	1705	1707	1710	rVB	83807	69109	1.63%	0.160%
49	12.257	1726	1729	1733	rBV3	49469	57178	1.35%	0.133%
50	12.363	1743	1747	1750	rBV	95997	93841	2.21%	0.218%
51	12.421	1754	1757	1759	rVV	131921	144110	3.40%	0.335%
52	12.445	1759	1761	1766	rVB3	68930	82317	1.94%	0.191%
53	12.521	1771	1774	1778	rBV	1510301	1217854	28.74%	2.827%
54	12.639	1791	1794	1798	rBV3	79433	108815	2.57%	0.253%
55	12.751	1807	1813	1816	rBV	1157155	1134643	26.78%	2.634%
56	12.792	1817	1820	1827	rVB3	128847	173137	4.09%	0.402%
57	12.869	1830	1833	1835	rBV	78715	65404	1.54%	0.152%
58	12.904	1835	1839	1842	rVV	4103857	3533410	83.39%	8.203%
59	12.969	1845	1850	1853	rBV3	78692	125765	2.97%	0.292%
60	13.080	1866	1869	1872	rVB	154293	145626	3.44%	0.338%
61	13.151	1877	1881	1883	rVV	189698	168145	3.97%	0.390%
62	13.180	1883	1886	1889	rBV	127092	120794	2.85%	0.280%
63	13.274	1899	1902	1905	rVB	70138	54637	1.29%	0.127%
64	13.304	1905	1907	1912	rBV3	65307	68202	1.61%	0.158%
65	13.492	1936	1939	1944	rVB3	122526	137361	3.24%	0.319%
66	13.586	1952	1955	1960	rVB	75035	83822	1.98%	0.195%
67	13.698	1970	1974	1977	rBV2	100435	119781	2.83%	0.278%
68	13.727	1977	1979	1981	rBV	79167	67933	1.60%	0.158%
69	13.816	1991	1994	1998	rVB2	227208	280056	6.61%	0.650%
70	13.951	2009	2017	2020	rBV2	1360534	1751223	41.33%	4.065%
71	13.974	2020	2021	2028	rVB	537919	438689	10.35%	1.018%
72	14.139	2046	2049	2052	rBV2	114097	101124	2.39%	0.235%
73	14.339	2080	2083	2086	rVB	104688	90053	2.13%	0.209%
74	14.374	2086	2089	2092	rVB	76124	69096	1.63%	0.160%
75	14.451	2100	2102	2106	rVB2	58374	66388	1.57%	0.154%
76	14.674	2138	2140	2145	rVB5	46805	54634	1.29%	0.127%

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080123\
Data File : BF134556.D
Acq On : 01 Aug 2023 19:24
Operator : CG\JU
Sample : 03645-04
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-08-(0.5-2.0)

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

77	14.757	2151	2154	2159	rVB	73507	75882	1.79%	0.176%
78	14.986	2188	2193	2196	rBV	480772	766927	18.10%	1.780%
79	15.092	2208	2211	2217	rVB2	106087	133013	3.14%	0.309%
80	15.286	2239	2244	2250	rVB	281085	352071	8.31%	0.817%
81	15.345	2250	2254	2260	rBV	391683	454830	10.73%	1.056%
82	15.410	2260	2265	2269	rBV	935131	1148845	27.11%	2.667%
83	15.439	2269	2270	2276	rVB2	98409	78344	1.85%	0.182%
84	16.868	2508	2513	2521	rVB2	144745	291075	6.87%	0.676%
85	17.309	2582	2588	2596	rVB	106442	219081	5.17%	0.509%
86	18.333	2756	2762	2764	rBV7	28415	61611	1.45%	0.143%

Sum of corrected areas: 43075463

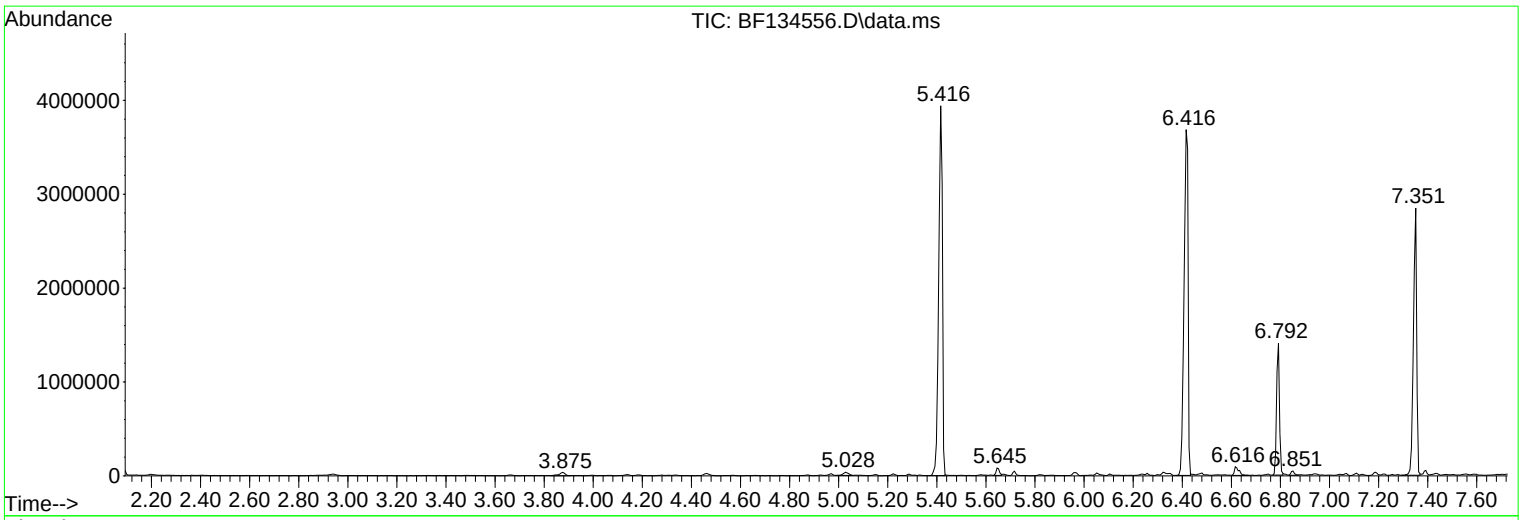
Sample Results: **BF134556.D**

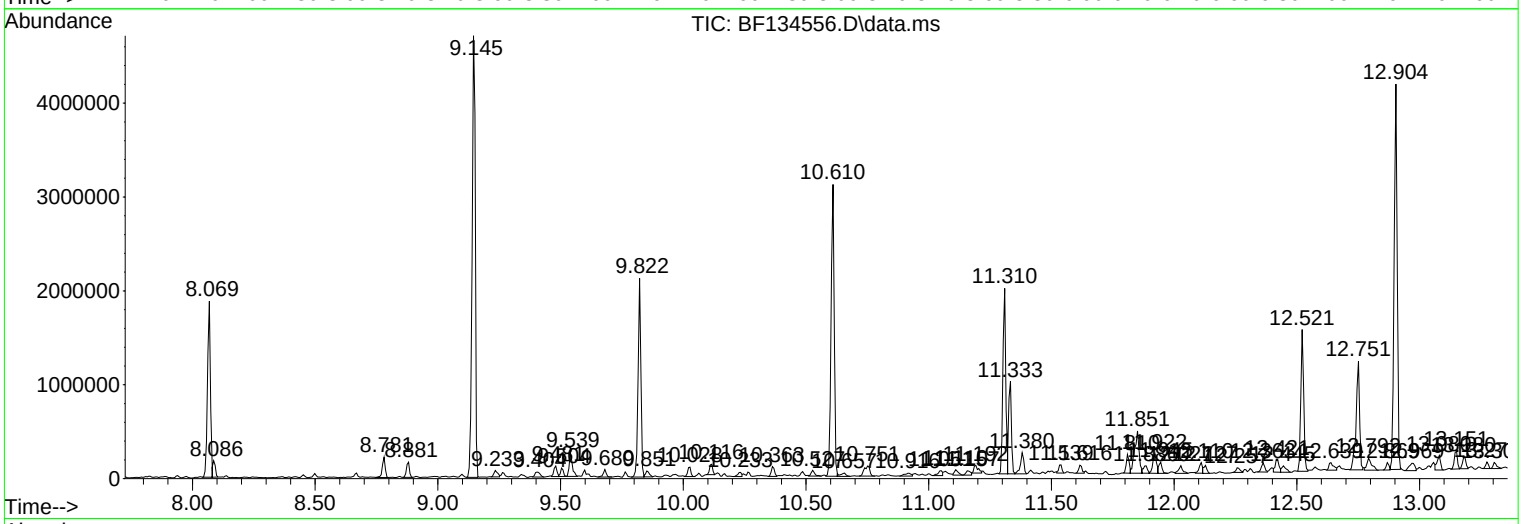
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080123\
Data File : BF134556.D
Acq On : 01 Aug 2023 19:24
Operator : CG\JU
Sample : 03645-04
Misc :
ALS Vial : 11 Sample Multiplier: 1

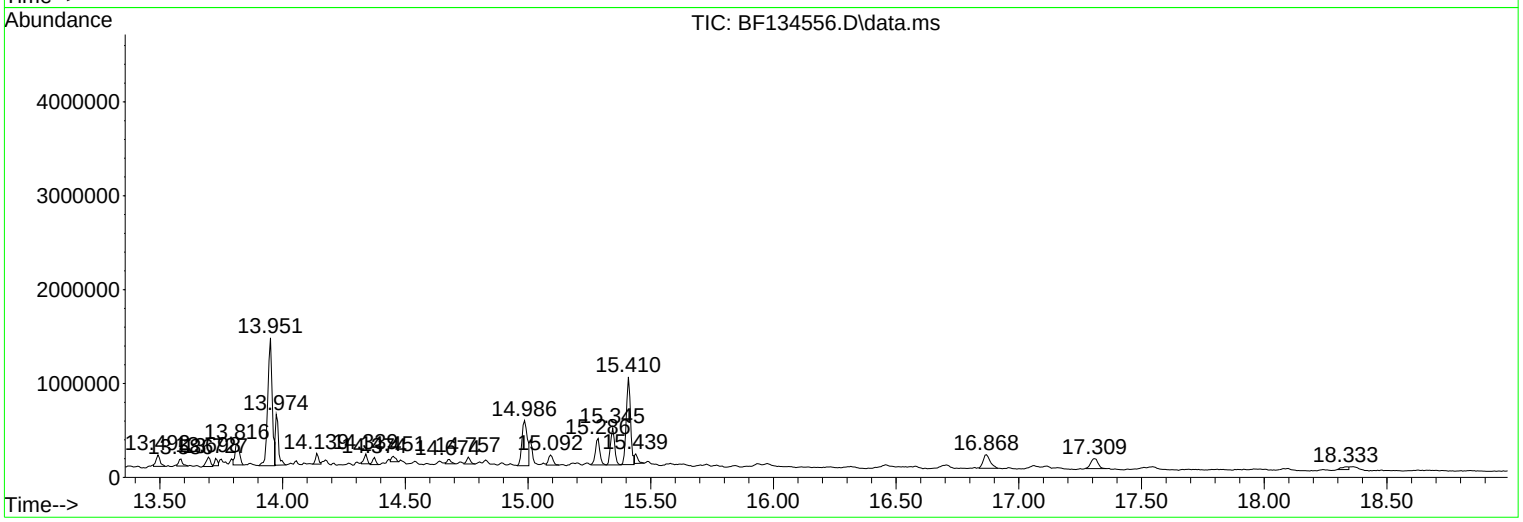
Instrument :
BNA_F
ClientSampleId :
SB-08-(0.5-2.0)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080123\
Data File : BF134556.D
Acq On : 01 Aug 2023 19:24
Operator : CG\JU
Sample : 03645-04
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-08-(0.5-2.0)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

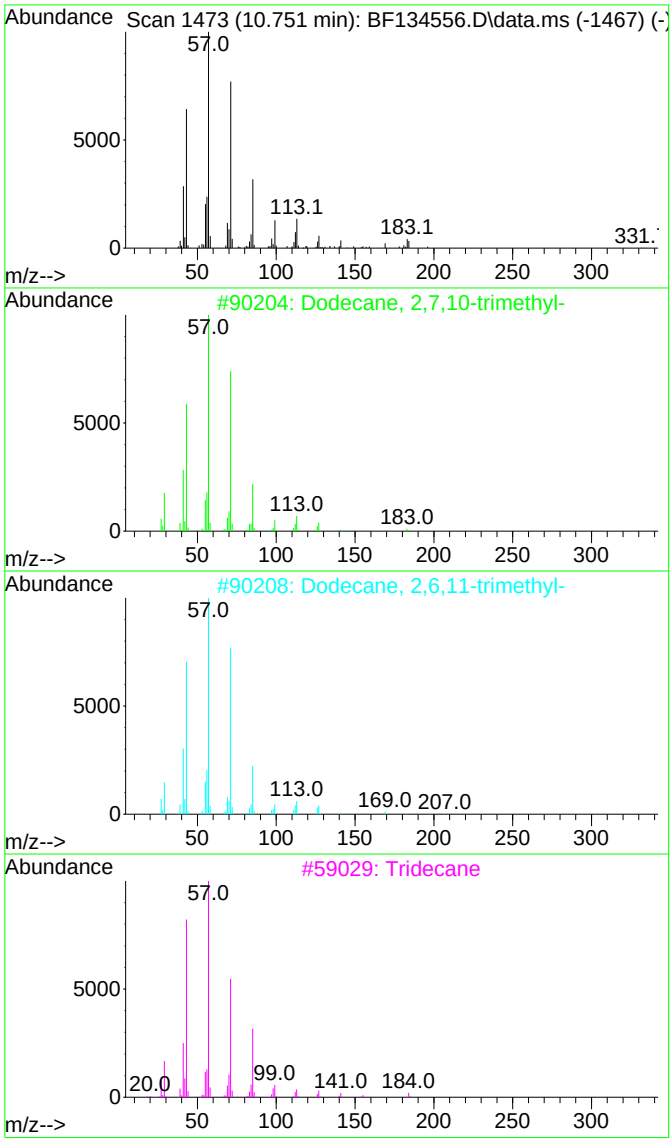
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

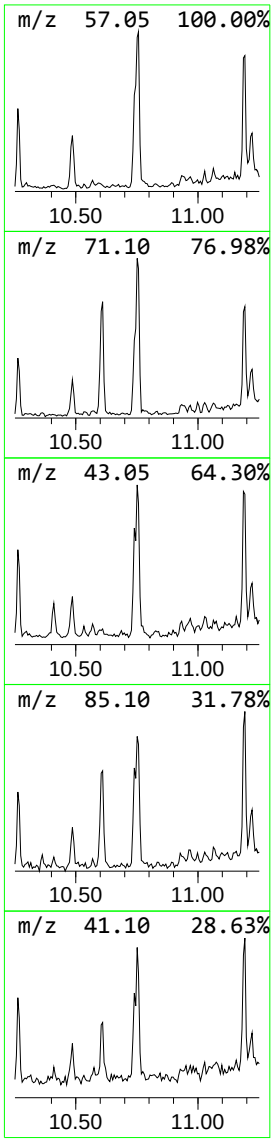
****

Peak Number 3 Dodecane, 2,7,10-trimethyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.751	2.04 ng	168302	Phenanthrene-d10	11.310

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dodecane, 2,7,10-trimethyl-	212	C15H32	074645-98-0	86
2	Dodecane, 2,6,11-trimethyl-	212	C15H32	031295-56-4	80
3	Tridecane	184	C13H28	000629-50-5	80
4	3-Ethyl-2,6,10-trimethylundecane	226	C16H34	1000432-25-9	80
5	Tridecane, 5-propyl-	226	C16H34	055045-11-9	78





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080123\
Data File : BF134556.D
Acq On : 01 Aug 2023 19:24
Operator : CG\JU
Sample : 03645-04
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-08-(0.5-2.0)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

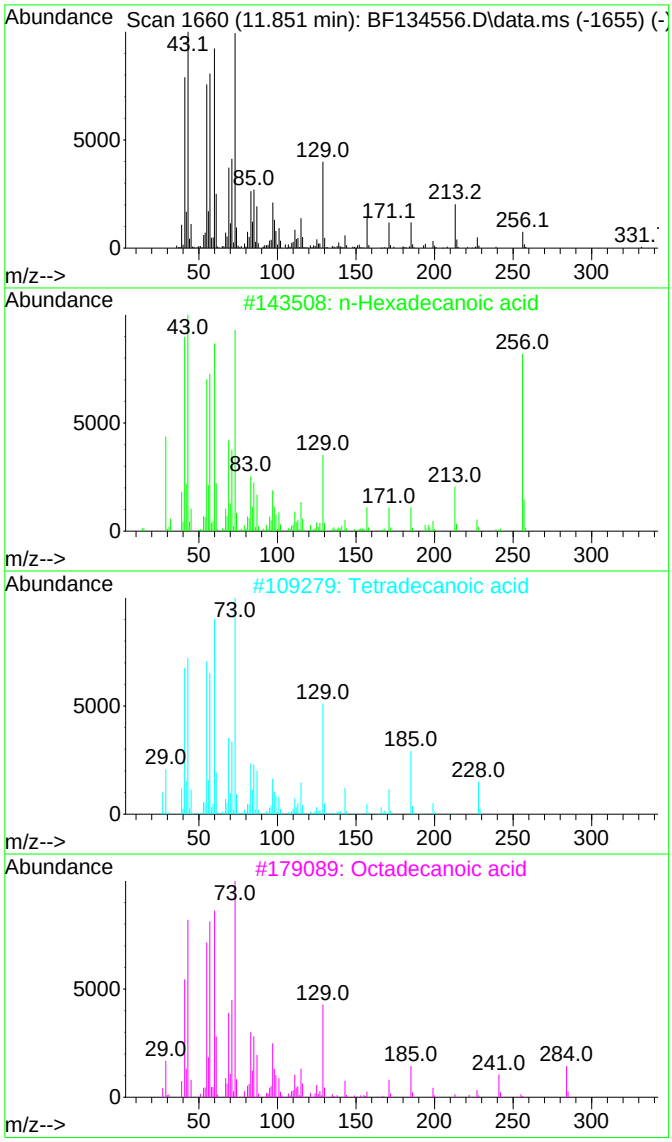
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

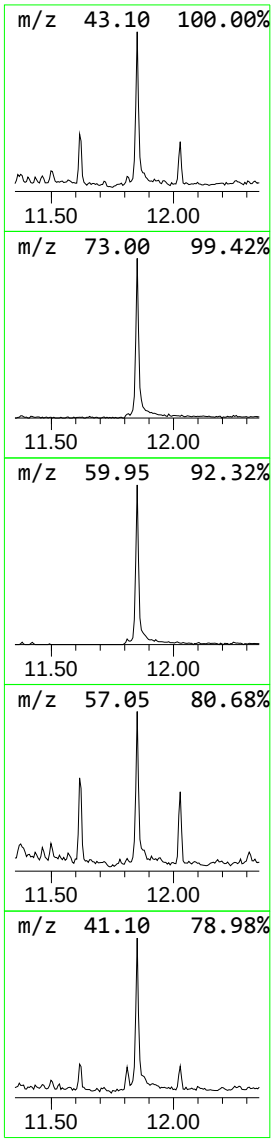
****

Peak Number 4 n-Hexadecanoic acid Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.851	6.93 ng	571945	Phenanthrene-d10	11.310

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	98
2	Tetradecanoic acid	228	C14H28O2	000544-63-8	93
3	Octadecanoic acid	284	C18H36O2	000057-11-4	93
4	Pentadecanoic acid	242	C15H30O2	001002-84-2	93
5	Tridecanoic acid	214	C13H26O2	000638-53-9	91





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080123\
Data File : BF134556.D
Acq On : 01 Aug 2023 19:24
Operator : CG\JU
Sample : 03645-04
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-08-(0.5-2.0)

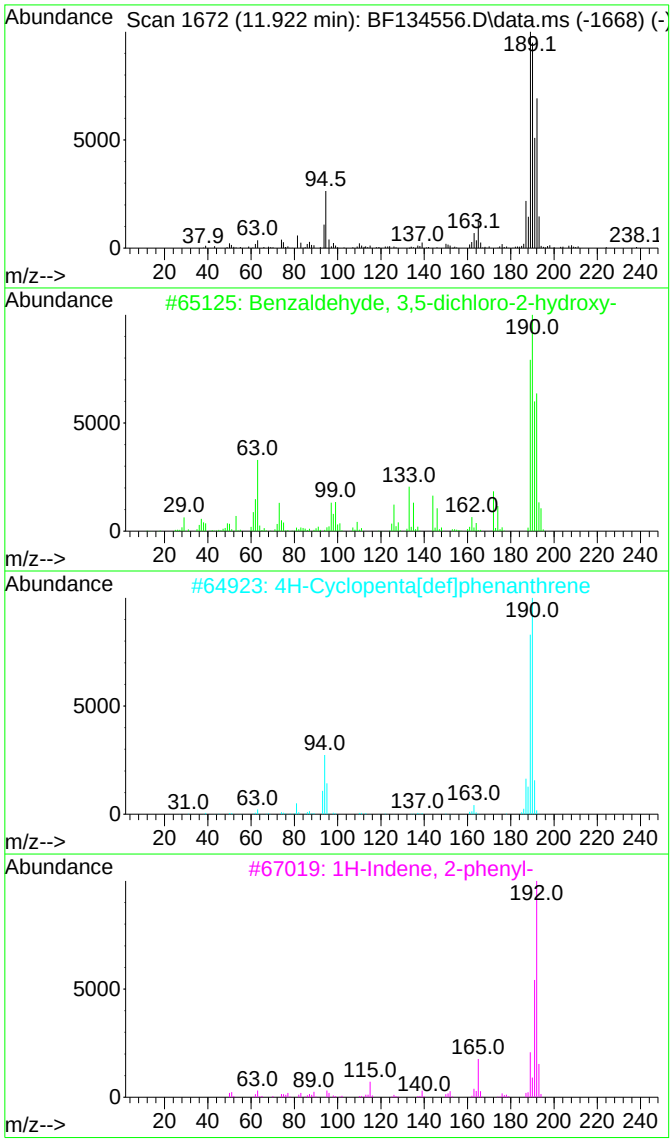
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

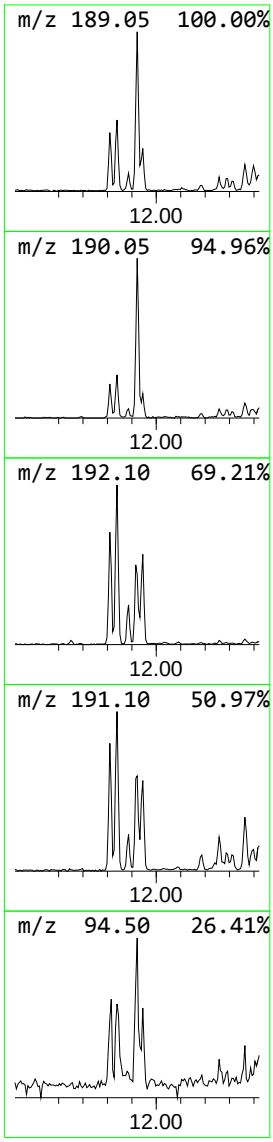
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 5 Benzaldehyde, 3,5-dichloro-... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.922	2.65 ng	218548	Phenanthrene-d10	11.310

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzaldehyde, 3,5-dichloro-2-hyd...	190	C7H4Cl2O2	000090-60-8	72
2	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	58
3	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	38
4	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	38
5	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	30





```
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080123\
Data File : BF134556.D
Acq On    : 01 Aug 2023  19:24
Operator  : CG\JU
Sample    : 03645-04
Misc      :
ALS Vial  : 11   Sample Multiplier: 1

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library   : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P
```

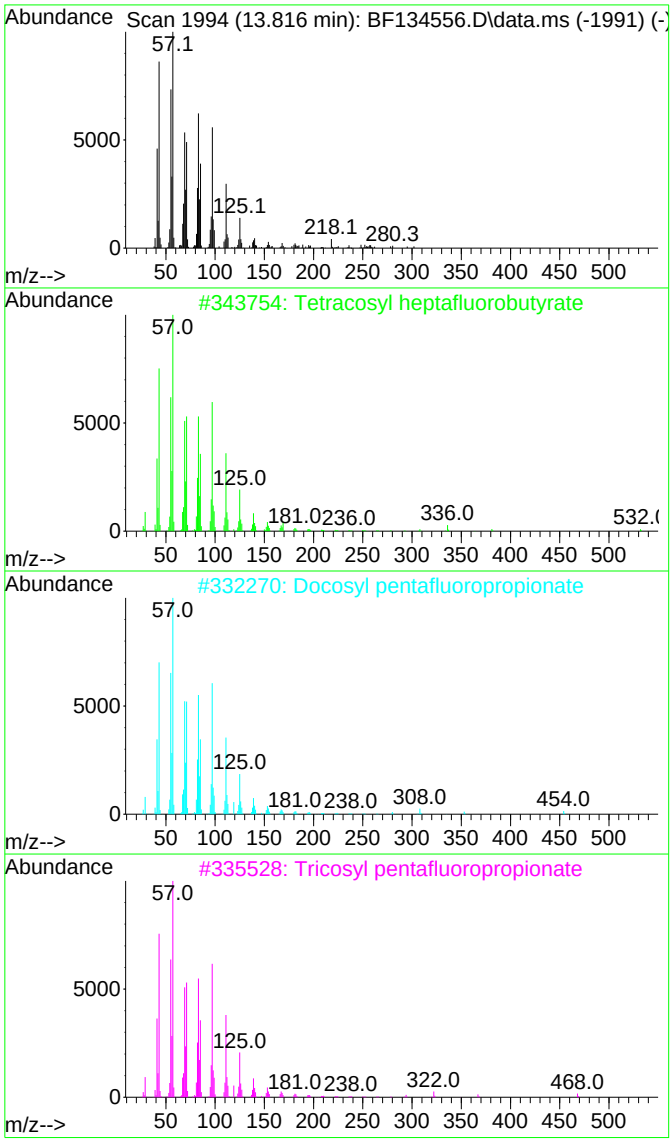
Instrument :
BNA_F
ClientSampleId :
SB-08-(0.5-2.0)

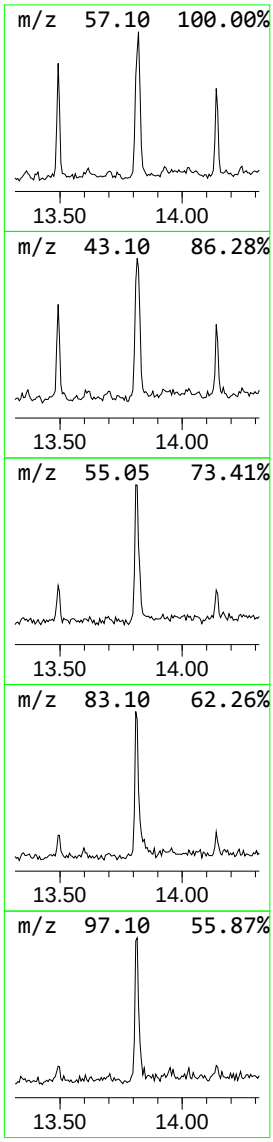
****

Peak Number 6 Tetracosyl heptafluorobutyrate Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.816	3.20 ng	280056	Chrysene-d12	13.951

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tetracosyl heptafluorobutyrate	550	C28H49F7O2	1000351-83-7	91
2	Docosyl pentafluoropropionate	472	C25H45F5O2	1000351-80-9	91
3	Tricosyl pentafluoropropionate	486	C26H47F5O2	1000351-81-0	91
4	1-Heptacosanol	396	C27H56O	002004-39-9	87
5	17-Pentatriacontene	491	C35H70	006971-40-0	87





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080123\
Data File : BF134556.D
Acq On : 01 Aug 2023 19:24
Operator : CG\JU
Sample : 03645-04
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-08-(0.5-2.0)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

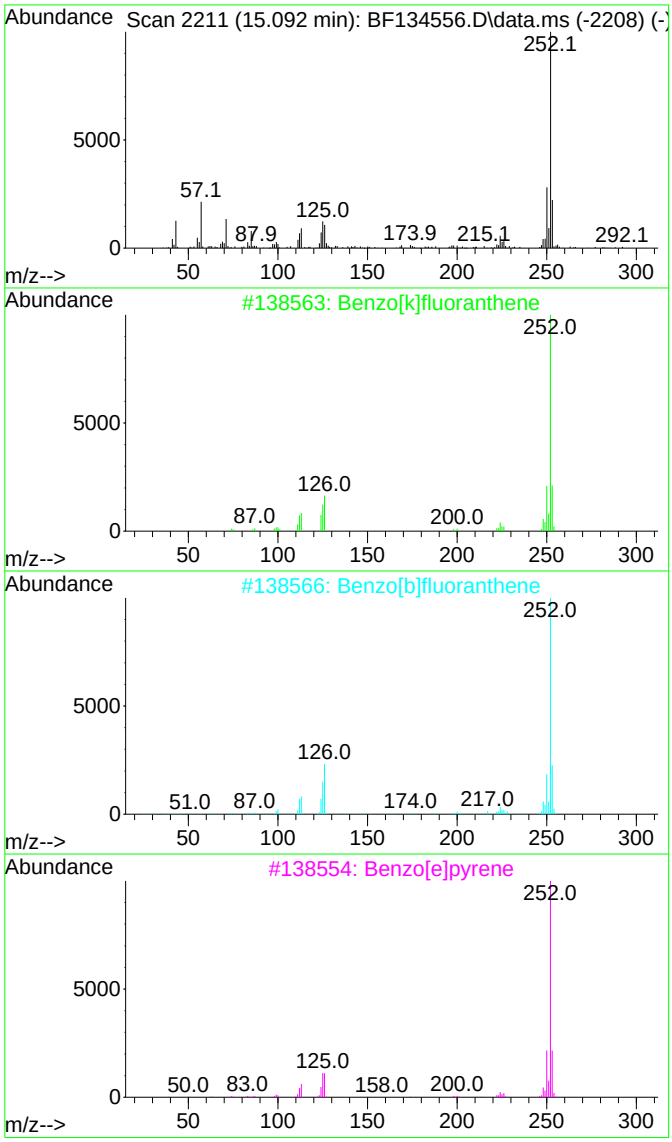
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

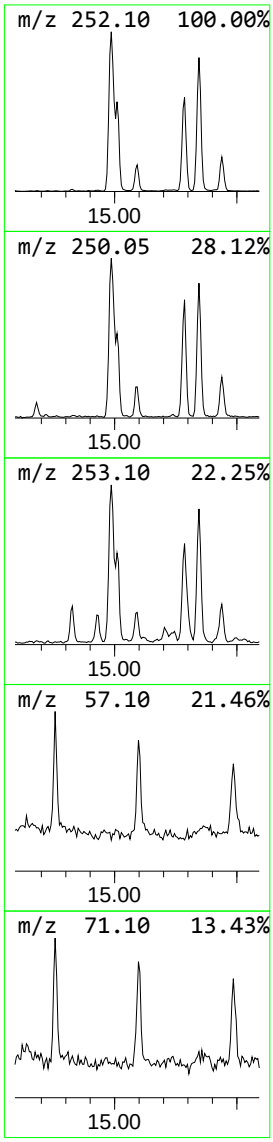
****

Peak Number 7 Benzo[e]pyrene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.092	2.32 ng	133013	Perylene-d12	15.410

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[k]fluoranthene	252	C20H12	000207-08-9	94
2	Benzo[b]fluoranthene	252	C20H12	000205-99-2	93
3	Benzo[e]pyrene	252	C20H12	000192-97-2	91
4	Benzo[a]pyrene	252	C20H12	000050-32-8	91
5	Benzo[j]fluoranthene	252	C20H12	000205-82-3	90





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080123\
Data File : BF134556.D
Acq On : 01 Aug 2023 19:24
Operator : CG\JU
Sample : 03645-04
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-08-(0.5-2.0)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

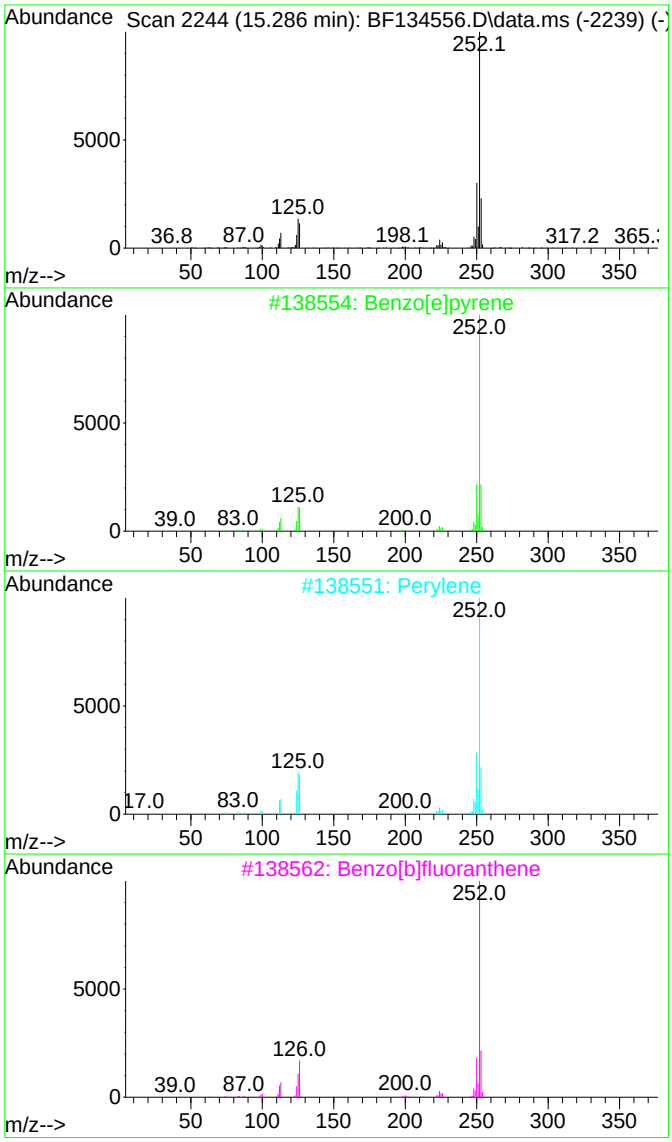
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

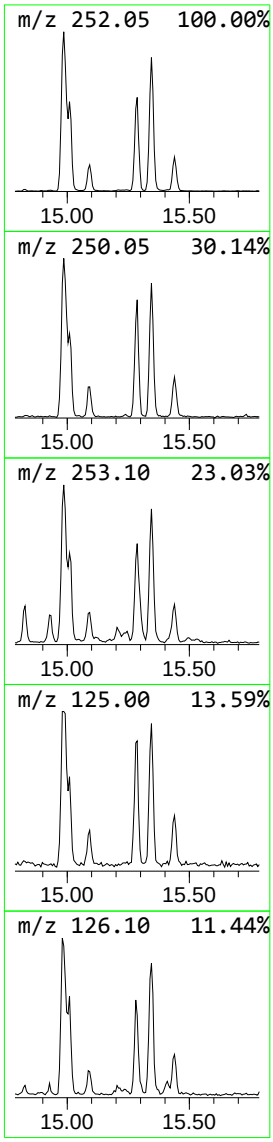
****

Peak Number 8 Perylene Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.286	6.13 ng	352071	Perylene-d12	15.410

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	99
2	Perylene	252	C20H12	000198-55-0	95
3	Benzo[b]fluoranthene	252	C20H12	000205-99-2	95
4	Benzo[k]fluoranthene	252	C20H12	000207-08-9	94
5	Benzo[a]pyrene	252	C20H12	000050-32-8	94





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080123\
Data File : BF134556.D
Acq On : 01 Aug 2023 19:24
Operator : CG\JU
Sample : O3645-04
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-08-(0.5-2.0)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Dodecane, 2,7,1...	10.751	2.0	ng	168302	4	11.310	1650170	20.0
n-Hexadecanoic ...	11.851	6.9	ng	571945	4	11.310	1650170	20.0
Benzaldehyde, 3...	11.922	2.6	ng	218548	4	11.310	1650170	20.0
Tetracosyl hept...	13.816	3.2	ng	280056	5	13.951	1751220	20.0
Benzo[e]pyrene	15.092	2.3	ng	133013	6	15.410	1148850	20.0
Perylene	15.286	6.1	ng	352071	6	15.410	1148850	20.0

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/13/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-09-(2.0-4.0)	SDG No.:	O3645
Lab Sample ID:	O3645-05	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	79.4
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG058572.D	1	07/18/23 09:45	08/02/23 10:39	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	420	U	190	420	ug/Kg
108-95-2	Phenol	210	U	93.6	210	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	210	U	110	210	ug/Kg
95-57-8	2-Chlorophenol	210	U	90.6	210	ug/Kg
95-48-7	2-Methylphenol	210	U	140	210	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	210	U	130	210	ug/Kg
98-86-2	Acetophenone	210	U	110	210	ug/Kg
65794-96-9	3+4-Methylphenols	420	U	140	420	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	100	U	74.2	100	ug/Kg
67-72-1	Hexachloroethane	210	U	92.6	210	ug/Kg
98-95-3	Nitrobenzene	210	U	94.6	210	ug/Kg
78-59-1	Isophorone	210	U	85.7	210	ug/Kg
88-75-5	2-Nitrophenol	210	U	120	210	ug/Kg
105-67-9	2,4-Dimethylphenol	210	U	130	210	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	210	U	140	210	ug/Kg
120-83-2	2,4-Dichlorophenol	210	U	98.3	210	ug/Kg
91-20-3	Naphthalene	210	U	100	210	ug/Kg
106-47-8	4-Chloroaniline	210	U	130	210	ug/Kg
87-68-3	Hexachlorobutadiene	210	U	110	210	ug/Kg
105-60-2	Caprolactam	420	U	150	420	ug/Kg
59-50-7	4-Chloro-3-methylphenol	210	U	100	210	ug/Kg
91-57-6	2-Methylnaphthalene	210	U	120	210	ug/Kg
77-47-4	Hexachlorocyclopentadiene	420	U	260	420	ug/Kg
88-06-2	2,4,6-Trichlorophenol	210	U	97.0	210	ug/Kg
95-95-4	2,4,5-Trichlorophenol	210	U	110	210	ug/Kg
92-52-4	1,1-Biphenyl	210	U	110	210	ug/Kg
91-58-7	2-Chloronaphthalene	210	U	110	210	ug/Kg
88-74-4	2-Nitroaniline	210	U	120	210	ug/Kg
131-11-3	Dimethylphthalate	210	U	110	210	ug/Kg
208-96-8	Acenaphthylene	210	U	110	210	ug/Kg
606-20-2	2,6-Dinitrotoluene	210	U	110	210	ug/Kg

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/13/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-09-(2.0-4.0)	SDG No.:	O3645
Lab Sample ID:	O3645-05	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	79.4
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG058572.D	1	07/18/23 09:45	08/02/23 10:39	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
99-09-2	3-Nitroaniline	210	U	120	210	ug/Kg
83-32-9	Acenaphthene	210	U	100	210	ug/Kg
51-28-5	2,4-Dinitrophenol	420	U	230	420	ug/Kg
100-02-7	4-Nitrophenol	420	U	140	420	ug/Kg
132-64-9	Dibenzofuran	210	U	96.8	210	ug/Kg
121-14-2	2,4-Dinitrotoluene	210	U	130	210	ug/Kg
84-66-2	Diethylphthalate	210	U	110	210	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	210	U	110	210	ug/Kg
86-73-7	Fluorene	210	U	110	210	ug/Kg
100-01-6	4-Nitroaniline	210	U	130	210	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	420	U	110	420	ug/Kg
86-30-6	n-Nitrosodiphenylamine	210	U	120	210	ug/Kg
101-55-3	4-Bromophenyl-phenylether	210	U	120	210	ug/Kg
118-74-1	Hexachlorobenzene	210	U	120	210	ug/Kg
1912-24-9	Atrazine	210	U	120	210	ug/Kg
87-86-5	Pentachlorophenol	420	U	140	420	ug/Kg
85-01-8	Phenanthrene	210	U	120	210	ug/Kg
120-12-7	Anthracene	210	U	130	210	ug/Kg
86-74-8	Carbazole	210	U	110	210	ug/Kg
84-74-2	Di-n-butylphthalate	210	U	130	210	ug/Kg
206-44-0	Fluoranthene	210	U	120	210	ug/Kg
129-00-0	Pyrene	210	U	110	210	ug/Kg
85-68-7	Butylbenzylphthalate	210	U	130	210	ug/Kg
91-94-1	3,3-Dichlorobenzidine	420	U	200	420	ug/Kg
56-55-3	Benzo(a)anthracene	210	U	110	210	ug/Kg
218-01-9	Chrysene	210	U	110	210	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	210	U	140	210	ug/Kg
117-84-0	Di-n-octyl phthalate	420	U	150	420	ug/Kg
205-99-2	Benzo(b)fluoranthene	210	U	100	210	ug/Kg
207-08-9	Benzo(k)fluoranthene	210	U	110	210	ug/Kg
50-32-8	Benzo(a)pyrene	210	U	120	210	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	210	U	130	210	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	210	U	120	210	ug/Kg

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/13/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-09-(2.0-4.0)	SDG No.:	O3645
Lab Sample ID:	O3645-05	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	79.4
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG058572.D	1	07/18/23 09:45	08/02/23 10:39	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
191-24-2	Benzo(g,h,i)perylene	210	U	120	210	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	210	U	110	210	ug/Kg
123-91-1	1,4-Dioxane	210	U	150	210	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	210	U	100	210	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	112		18 - 112	74%	SPK: 150
13127-88-3	Phenol-d6	111		15 - 107	74%	SPK: 150
4165-60-0	Nitrobenzene-d5	67.6		18 - 107	68%	SPK: 100
321-60-8	2-Fluorobiphenyl	67.9		20 - 109	68%	SPK: 100
118-79-6	2,4,6-Tribromophenol	93.4		10 - 110	62%	SPK: 150
1718-51-0	Terphenyl-d14	73.5		14 - 112	74%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	58200	7.814			
1146-65-2	Naphthalene-d8	255000	10.617			
15067-26-2	Acenaphthene-d10	173000	14.459			
1517-22-2	Phenanthrene-d10	389000	17.209			
1719-03-5	Chrysene-d12	336000	21.451			
1520-96-3	Perylene-d12	415000	24.524			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	110	AB		4.91	ug/Kg
000057-10-3	n-Hexadecanoic acid	110	J		18.1	ug/Kg

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG080223\
Data File : BG058572.D
Acq On : 2 Aug 2023 10:39
Operator : MA/JU
Sample : 03645-05
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
SB-09-(2.0-4.0)

Quant Time: Aug 02 12:46:02 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 28 22:29:07 2023
Response via : Initial Calibration

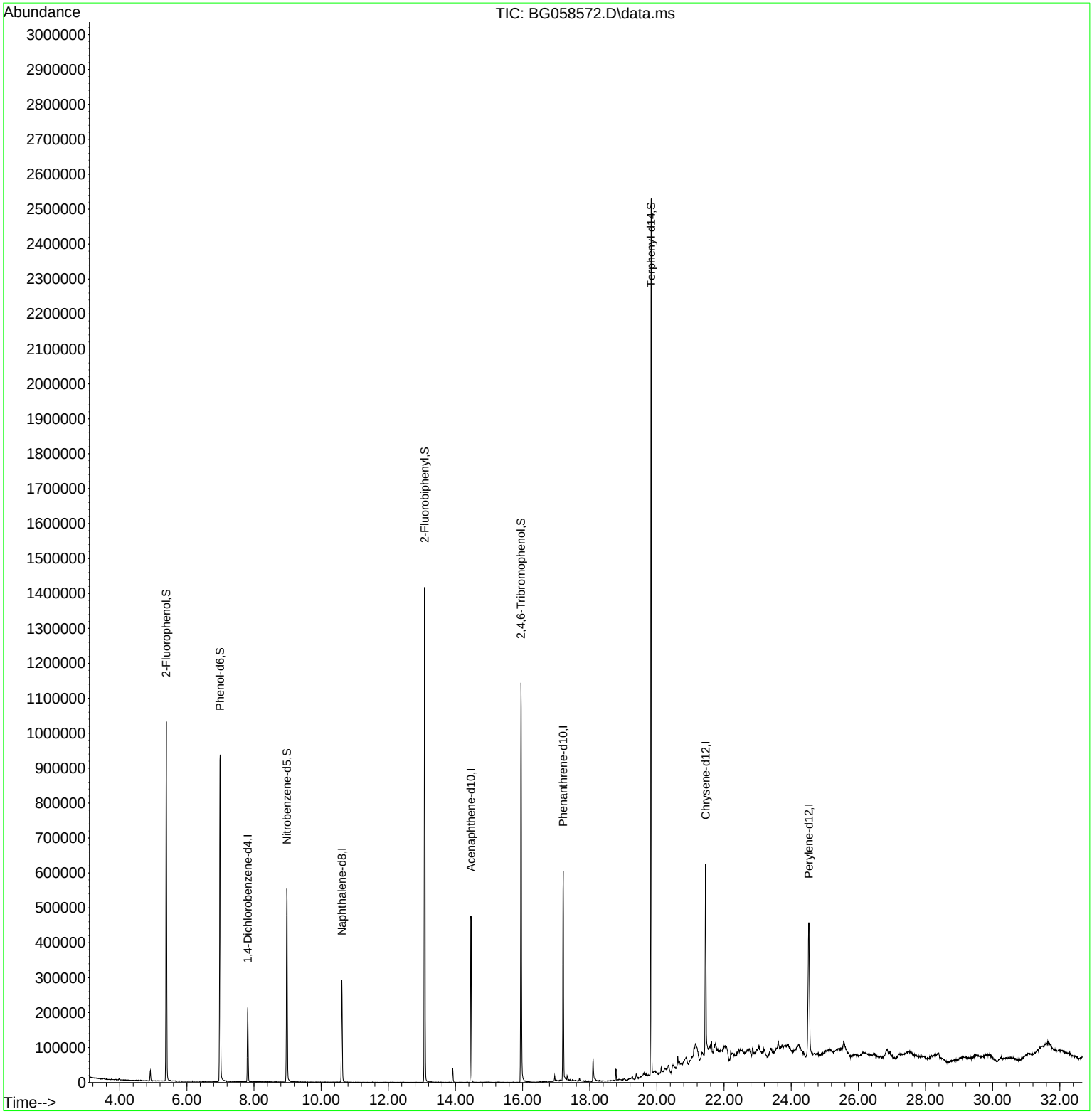
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.814	152	58172	20.000	ng	0.00
21) Naphthalene-d8	10.617	136	254632	20.000	ng	0.00
39) Acenaphthene-d10	14.459	164	173135	20.000	ng	0.00
64) Phenanthrene-d10	17.209	188	388943	20.000	ng	0.00
76) Chrysene-d12	21.451	240	335998	20.000	ng	0.00
86) Perylene-d12	24.524	264	415042	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.388	112	424515	111.540	ng	0.00
7) Phenol-d6	6.992	99	588949	111.209	ng	0.00
23) Nitrobenzene-d5	8.977	82	350380	67.598	ng	0.00
42) 2,4,6-Tribromophenol	15.952	330	265183	93.446	ng	0.00
45) 2-Fluorobiphenyl	13.084	172	784686	67.920	ng	0.00
79) Terphenyl-d14	19.829	244	1313986	73.542	ng	0.00
Target Compounds						Qvalue

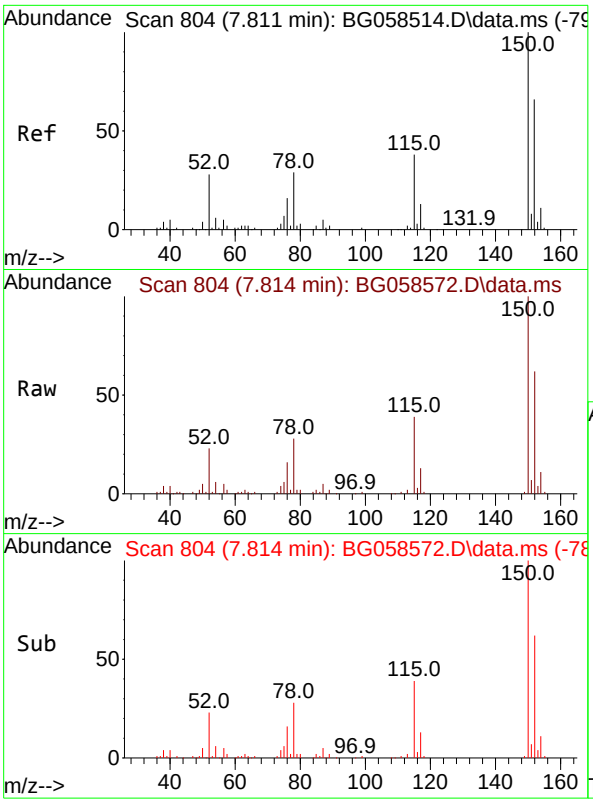
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG080223\
Data File : BG058572.D
Acq On : 2 Aug 2023 10:39
Operator : MA/JU
Sample : 03645-05
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
SB-09-(2.0-4.0)

Quant Time: Aug 02 12:46:02 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 28 22:29:07 2023
Response via : Initial Calibration



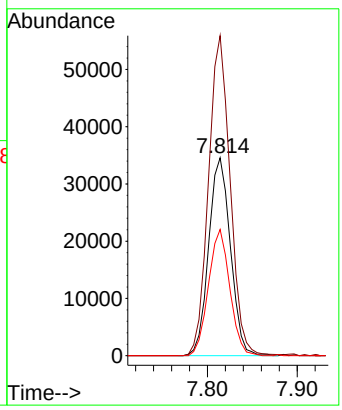


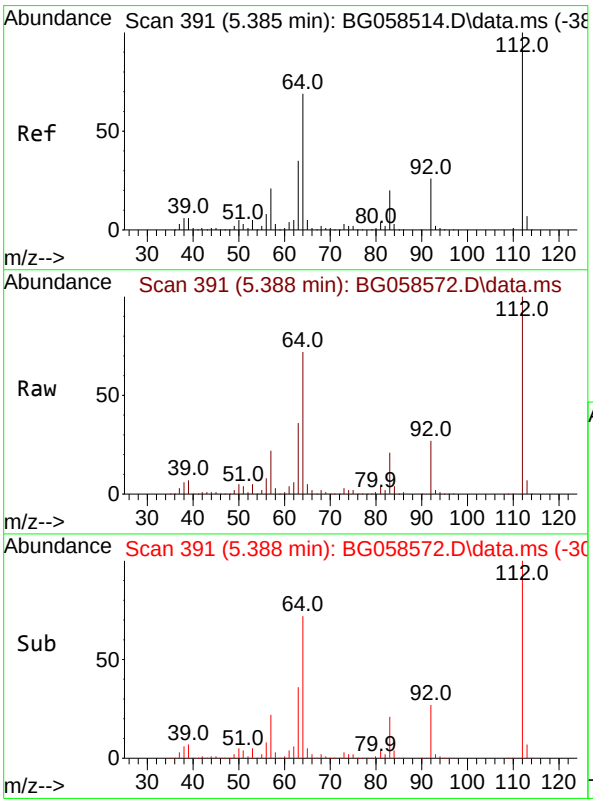
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.814 min Scan# 8
Delta R.T. 0.003 min
Lab File: BG058572.D
Acq: 2 Aug 2023 10:39

Instrument :
BNA_G
ClientSampleId :
SB-09-(2.0-4.0)

Tgt Ion:152 Resp: 58172

Ion	Ratio	Lower	Upper
152	100		
150	161.6	120.5	180.7
115	63.8	45.9	68.9

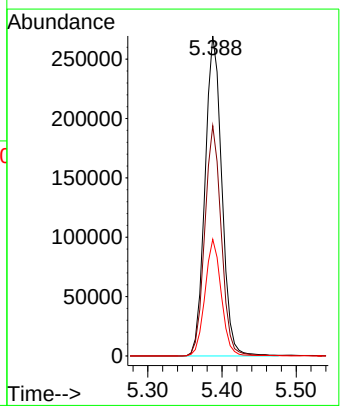


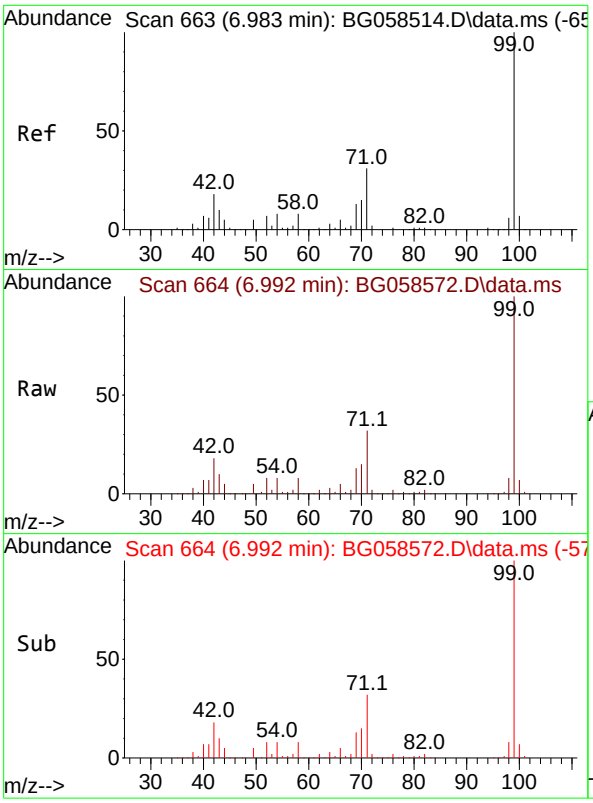


#5
2-Fluorophenol
Concen: 111.540 ng
RT: 5.388 min Scan# 391
Delta R.T. 0.003 min
Lab File: BG058572.D
Acq: 2 Aug 2023 10:39

Tgt Ion:112 Resp: 424515

Ion	Ratio	Lower	Upper
112	100		
64	72.0	55.3	82.9
63	36.5	28.3	42.5



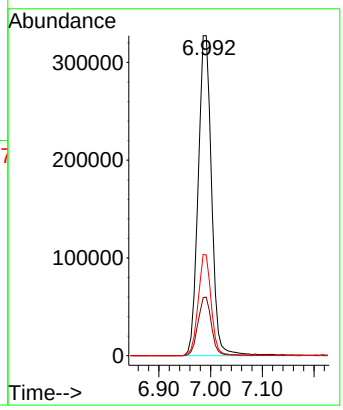


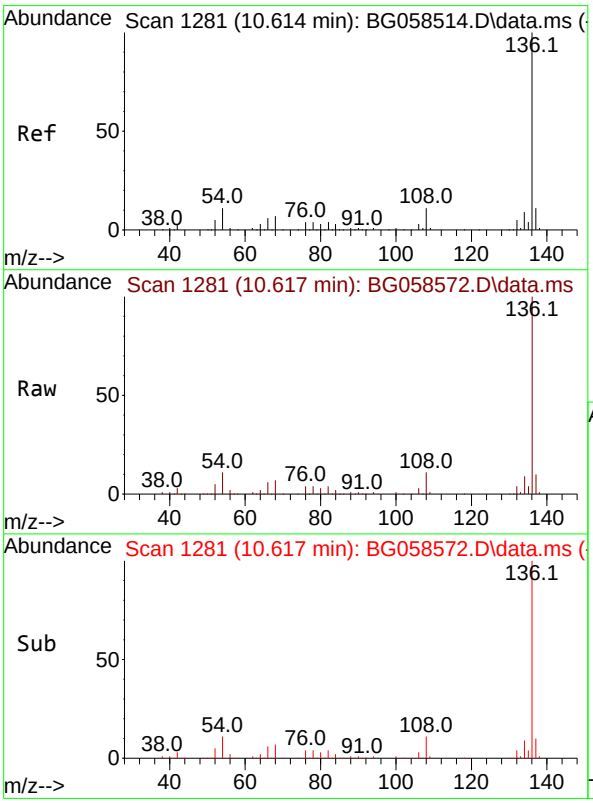
#7
Phenol-d6
Concen: 111.209 ng
RT: 6.992 min Scan# 6
Delta R.T. 0.009 min
Lab File: BG058572.D
Acq: 2 Aug 2023 10:39

Instrument :
BNA_G
ClientSampleId :
SB-09-(2.0-4.0)

Tgt Ion: 99 Resp: 588949

Ion	Ratio	Lower	Upper
99	100		
42	18.3	14.6	21.8
71	31.5	25.0	37.4

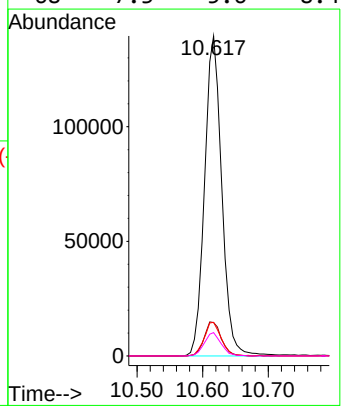


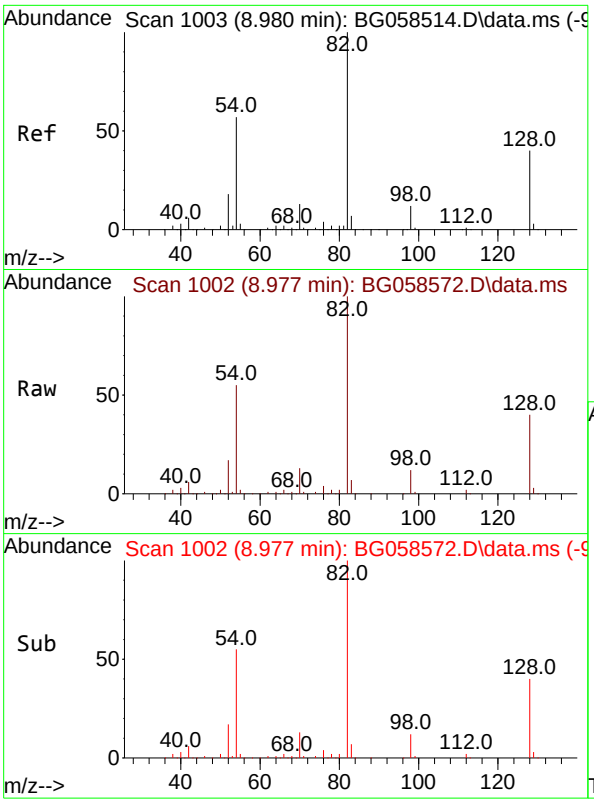


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.617 min Scan# 1281
Delta R.T. 0.003 min
Lab File: BG058572.D
Acq: 2 Aug 2023 10:39

Tgt Ion:136 Resp: 254632

Ion	Ratio	Lower	Upper
136	100		
137	10.5	8.6	13.0
54	10.5	8.9	13.3
68	7.3	5.6	8.4



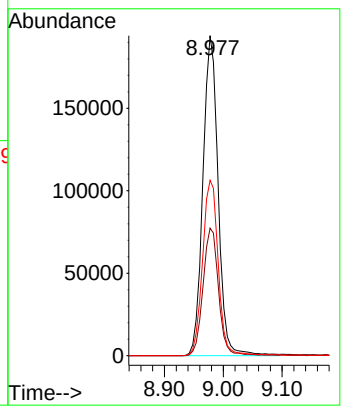


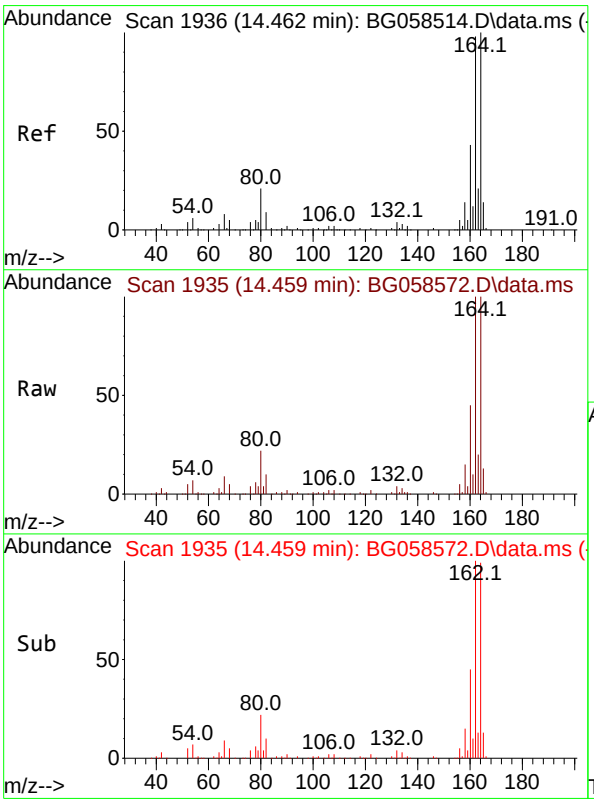
#23
Nitrobenzene-d5
Concen: 67.598 ng
RT: 8.977 min Scan# 1
Delta R.T. -0.003 min
Lab File: BG058572.D
Acq: 2 Aug 2023 10:39

Instrument :
BNA_G
ClientSampleId :
SB-09-(2.0-4.0)

Tgt Ion: 82 Resp: 350380

Ion	Ratio	Lower	Upper
82	100		
128	39.8	32.2	48.2
54	54.8	46.0	69.0

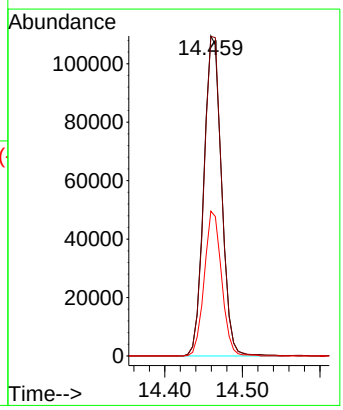


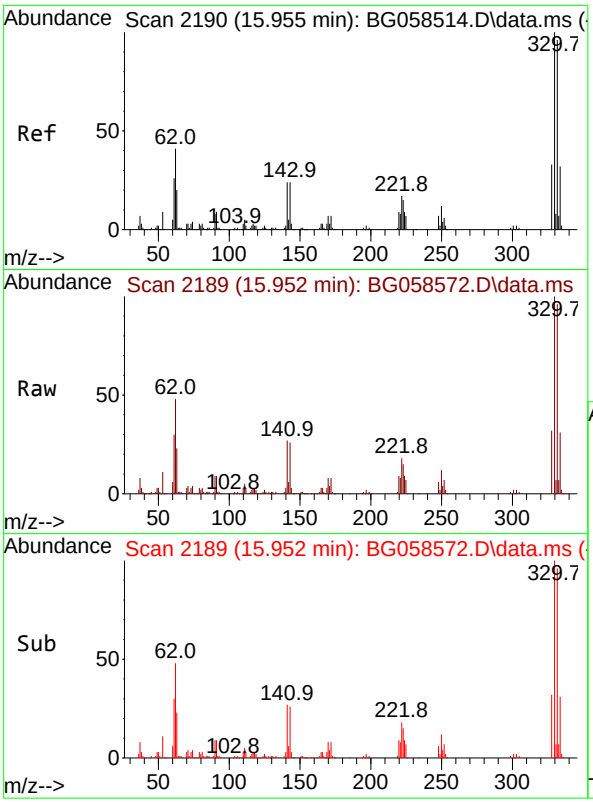


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.459 min Scan# 1935
Delta R.T. -0.003 min
Lab File: BG058572.D
Acq: 2 Aug 2023 10:39

Tgt Ion:164 Resp: 173135

Ion	Ratio	Lower	Upper
164	100		
162	99.9	78.3	117.5
160	45.3	34.1	51.1



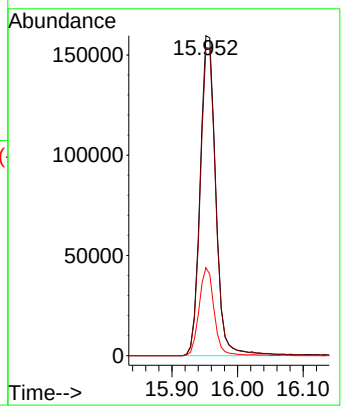


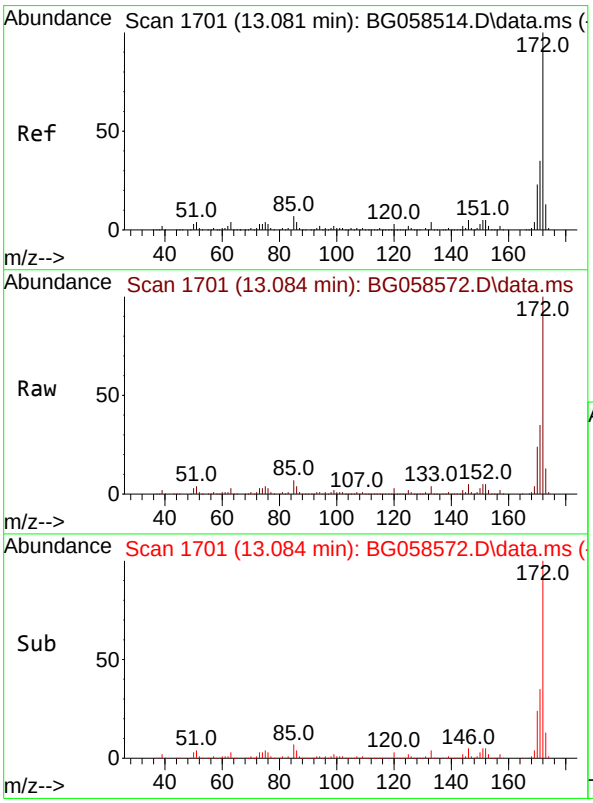
#42
2,4,6-Tribromophenol
Concen: 93.446 ng
RT: 15.952 min Scan# 21
Delta R.T. -0.003 min
Lab File: BG058572.D
Acq: 2 Aug 2023 10:39

Instrument :
BNA_G
ClientSampleId :
SB-09-(2.0-4.0)

Tgt Ion:330 Resp: 265183

Ion	Ratio	Lower	Upper
330	100		
332	96.9	77.5	116.3
141	26.6	20.7	31.1

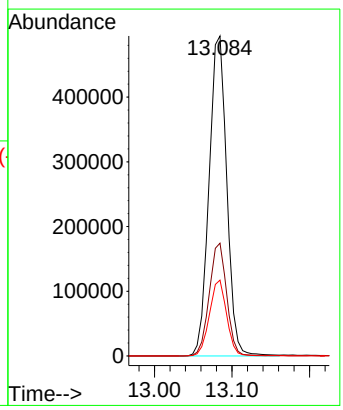


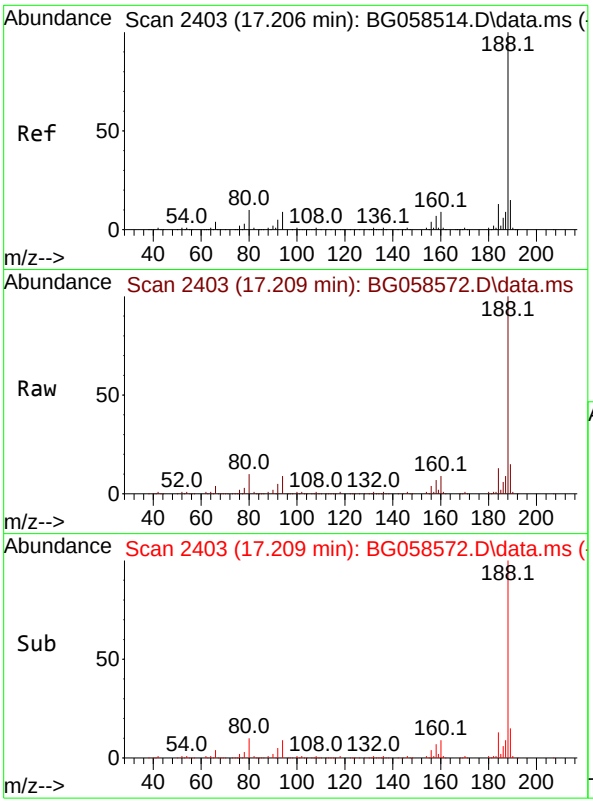


#45
2-Fluorobiphenyl
Concen: 67.920 ng
RT: 13.084 min Scan# 1701
Delta R.T. 0.003 min
Lab File: BG058572.D
Acq: 2 Aug 2023 10:39

Tgt Ion:172 Resp: 784686

Ion	Ratio	Lower	Upper
172	100		
171	35.2	28.0	42.0
170	23.7	18.4	27.6



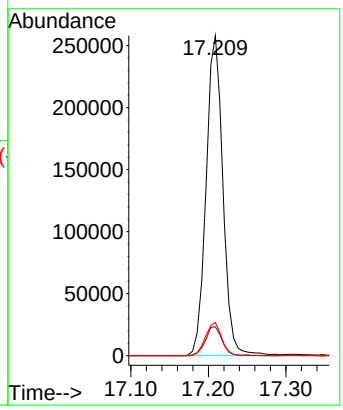


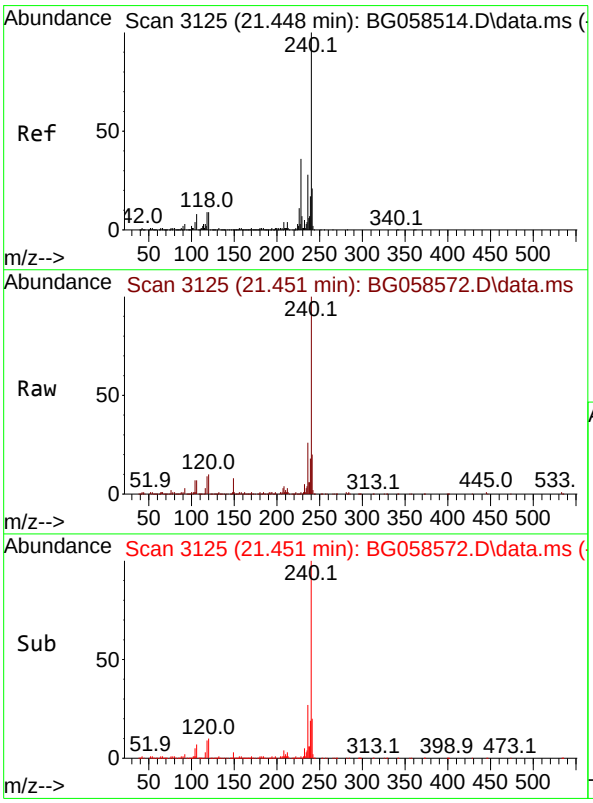
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.209 min Scan# 24
Delta R.T. 0.003 min
Lab File: BG058572.D
Acq: 2 Aug 2023 10:39

Instrument :
BNA_G
ClientSampleId :
SB-09-(2.0-4.0)

Tgt Ion:188 Resp: 388943

Ion	Ratio	Lower	Upper
188	100		
94	9.0	7.0	10.6
80	10.4	8.1	12.1

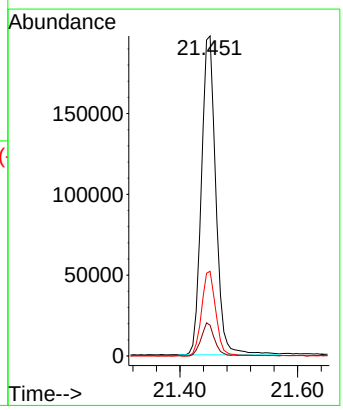


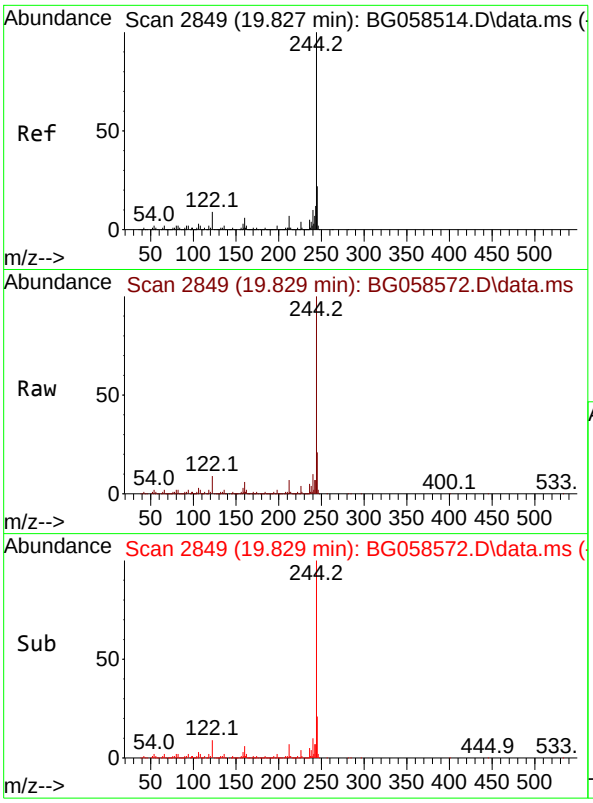


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.451 min Scan# 3125
Delta R.T. 0.003 min
Lab File: BG058572.D
Acq: 2 Aug 2023 10:39

Tgt Ion:240 Resp: 335998

Ion	Ratio	Lower	Upper
240	100		
120	9.6	7.4	11.0
236	26.4	22.2	33.4



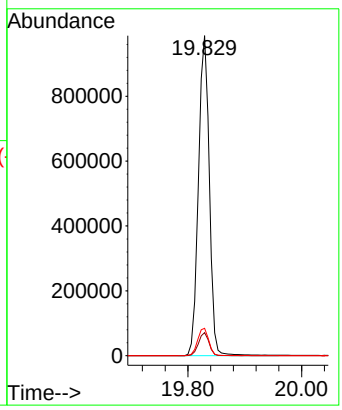


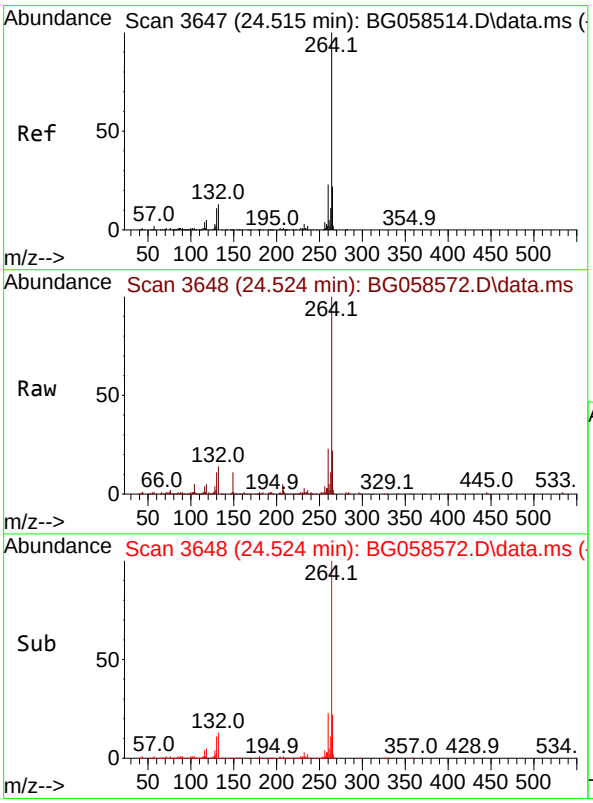
#79
Terphenyl-d14
Concen: 73.542 ng
RT: 19.829 min Scan# 2
Delta R.T. 0.003 min
Lab File: BG058572.D
Acq: 2 Aug 2023 10:39

Instrument :
BNA_G
ClientSampleId :
SB-09-(2.0-4.0)

Tgt Ion:244 Resp: 1313986

Ion	Ratio	Lower	Upper
244	100		
212	7.2	5.9	8.9
122	8.5	6.8	10.2

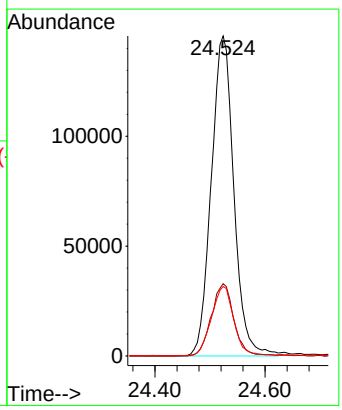




#86
Perylene-d12
Concen: 20.000 ng
RT: 24.524 min Scan# 3648
Delta R.T. 0.009 min
Lab File: BG058572.D
Acq: 2 Aug 2023 10:39

Tgt Ion:264 Resp: 415042

Ion	Ratio	Lower	Upper
264	100		
260	22.6	18.4	27.6
265	21.7	17.9	26.9



Sample Results: **BG058572.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG080223\
Data File : BG058572.D
Acq On : 2 Aug 2023 10:39
Operator : MA/JU
Sample : O3645-05
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
SB-09-(2.0-4.0)

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG072823.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BG058572.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.912	305	310	318	rVB2	30004	47580	1.44%	0.287%
2	5.388	384	391	407	rBV	1028720	1594704	48.32%	9.611%
3	6.992	656	664	685	rBV	934863	1662819	50.39%	10.021%
4	7.814	798	804	814	rVB	212734	356930	10.82%	2.151%
5	8.977	993	1002	1017	rBV	553879	1013336	30.71%	6.107%
6	10.617	1271	1281	1294	rBV	293430	534374	16.19%	3.220%
7	13.084	1693	1701	1712	rBV	1416815	2236355	67.77%	13.478%
8	13.919	1836	1843	1856	rVB	41146	64070	1.94%	0.386%
9	14.459	1928	1935	1950	rBV2	476750	749042	22.70%	4.514%
10	15.952	2182	2189	2206	rBV	1143673	1854872	56.21%	11.179%
11	17.209	2397	2403	2409	rBV	600999	897567	27.20%	5.409%
12	18.096	2549	2554	2564	rBV2	66160	120797	3.66%	0.728%
13	18.778	2666	2670	2674	rBV3	32455	42643	1.29%	0.257%
14	19.829	2843	2849	2858	rBV	2508590	3300026	100.00%	19.888%
15	20.476	2952	2959	2960	rBV4	18269	33264	1.01%	0.200%
16	21.451	3119	3125	3137	rBV2	542405	966452	29.29%	5.824%
17	22.197	3249	3252	3256	rBV3	21275	34801	1.05%	0.210%
18	24.524	3638	3648	3664	rVB	377152	1083345	32.83%	6.529%

Sum of corrected areas: 16592977

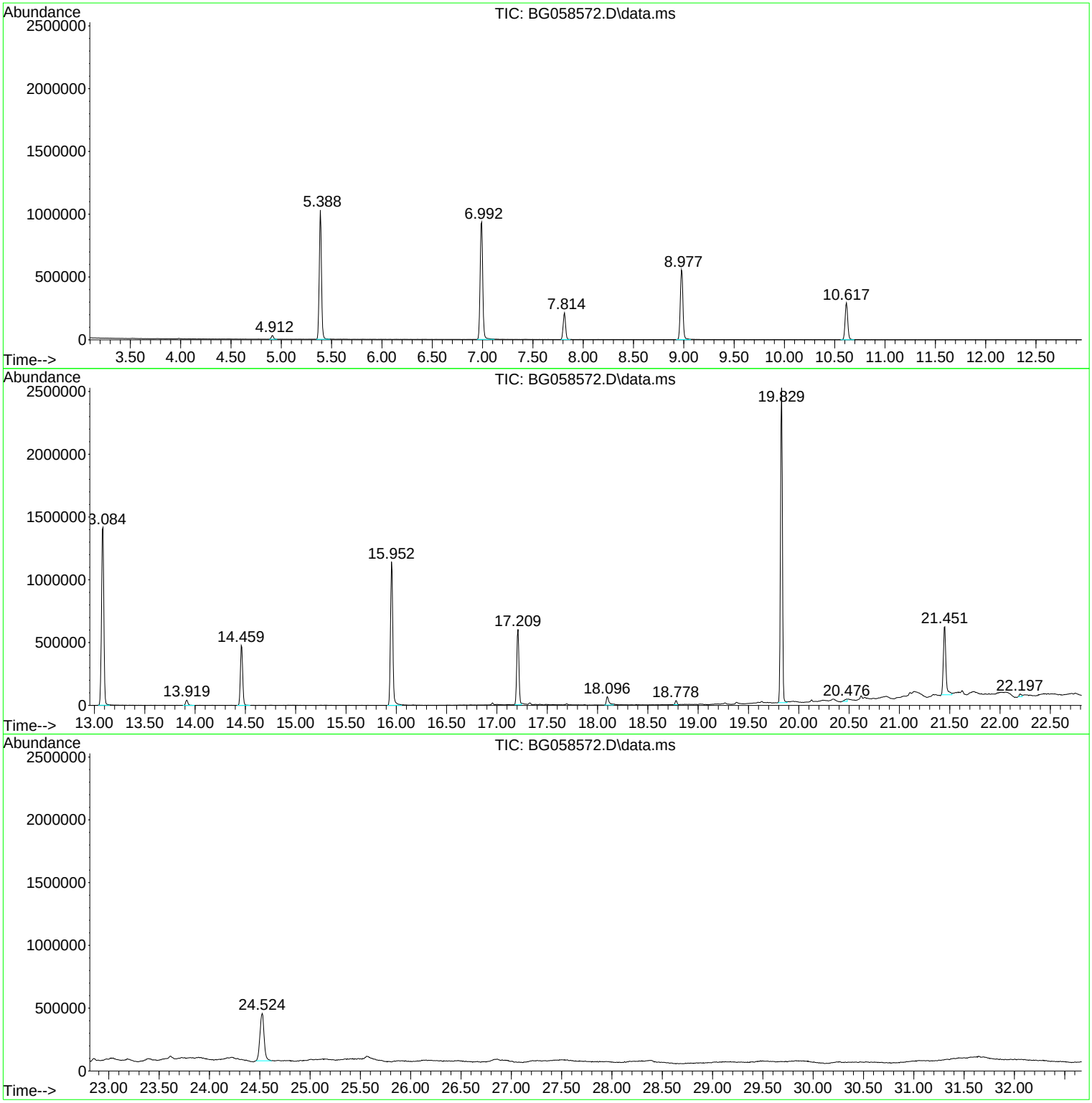
Sample Results: **BG058572.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG080223\
Data File : BG058572.D
Acq On : 2 Aug 2023 10:39
Operator : MA/JU
Sample : 03645-05
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
SB-09-(2.0-4.0)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG080223\
Data File : BG058572.D
Acq On : 2 Aug 2023 10:39
Operator : MA/JU
Sample : 03645-05
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
SB-09-(2.0-4.0)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

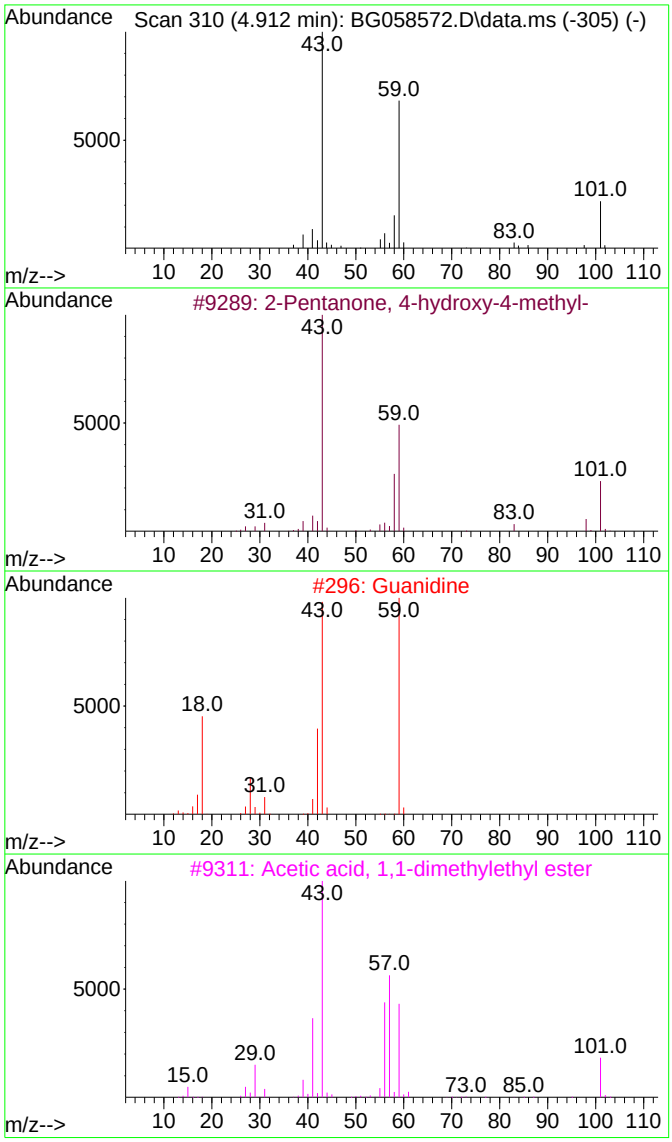
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

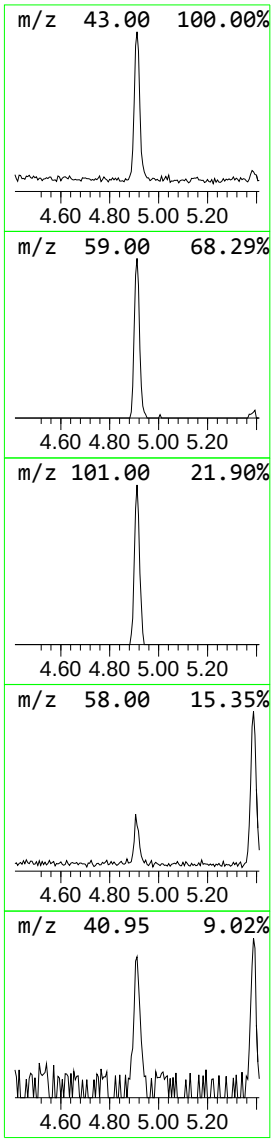
****

Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.912	2.67 ng	47580	1,4-Dichlorobenzene-d4	7.814

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	53
2	Guanidine	59	CH5N3	000113-00-8	47
3	Acetic acid, 1,1-dimethylethyl e...	116	C6H12O2	000540-88-5	39
4	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	32
5	3-Heptanol, 4-methyl-	130	C8H18O	014979-39-6	28





Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG080223\
Data File : BG058572.D
Acq On : 2 Aug 2023 10:39
Operator : MA/JU
Sample : 03645-05
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
SB-09-(2.0-4.0)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

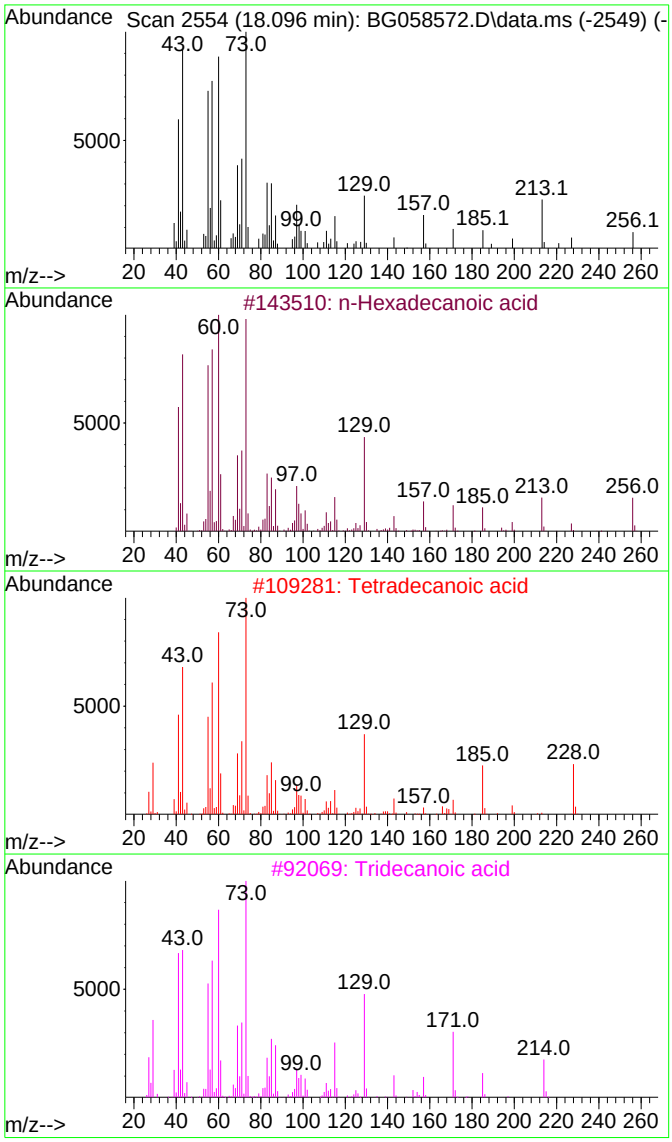
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

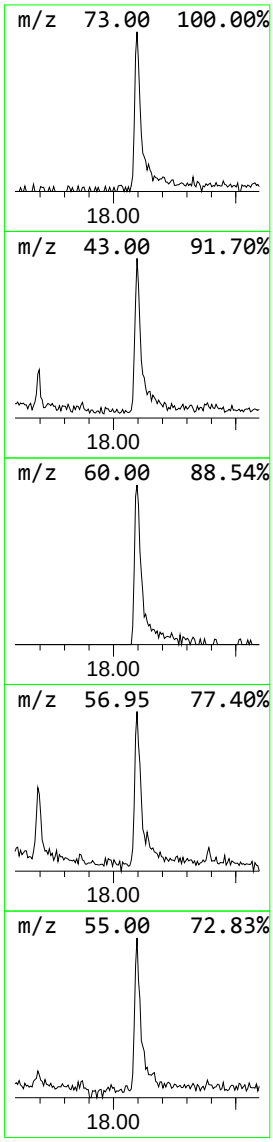
****

Peak Number 2 n-Hexadecanoic acid Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.096	2.69 ng	120797	Phenanthrene-d10	17.209

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	93
2	Tetradecanoic acid	228	C14H28O2	000544-63-8	72
3	Tridecanoic acid	214	C13H26O2	000638-53-9	64
4	Nonanoic acid	158	C9H18O2	000112-05-0	50
5	Oxalic acid, cyclobutyl tetradec...	340	C20H36O4	1000309-70-9	18





Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG080223\
Data File : BG058572.D
Acq On : 2 Aug 2023 10:39
Operator : MA/JU
Sample : 03645-05
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
SB-09-(2.0-4.0)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
2-Pentanone, 4-...	4.912	2.7	ng	47580	1	7.814	356930	20.0
n-Hexadecanoic ...	18.096	2.7	ng	120797	4	17.209	897567	20.0

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/13/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-10-(0.5-2.0)	SDG No.:	O3645
Lab Sample ID:	O3645-06	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	83.3
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF134566.D	1	07/18/23 09:45	08/02/23 00:41	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	400	U	180	400	ug/Kg
108-95-2	Phenol	200	U	89.2	200	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	200	U	110	200	ug/Kg
95-57-8	2-Chlorophenol	200	U	86.3	200	ug/Kg
95-48-7	2-Methylphenol	200	U	140	200	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	200	U	130	200	ug/Kg
98-86-2	Acetophenone	200	U	100	200	ug/Kg
65794-96-9	3+4-Methylphenols	400	U	130	400	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	95.9	U	70.7	95.9	ug/Kg
67-72-1	Hexachloroethane	200	U	88.2	200	ug/Kg
98-95-3	Nitrobenzene	200	U	90.1	200	ug/Kg
78-59-1	Isophorone	200	U	81.6	200	ug/Kg
88-75-5	2-Nitrophenol	200	U	110	200	ug/Kg
105-67-9	2,4-Dimethylphenol	200	U	120	200	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	200	U	130	200	ug/Kg
120-83-2	2,4-Dichlorophenol	200	U	93.6	200	ug/Kg
91-20-3	Naphthalene	270		97.6	200	ug/Kg
106-47-8	4-Chloroaniline	200	U	130	200	ug/Kg
87-68-3	Hexachlorobutadiene	200	U	100	200	ug/Kg
105-60-2	Caprolactam	400	U	140	400	ug/Kg
59-50-7	4-Chloro-3-methylphenol	200	U	98.9	200	ug/Kg
91-57-6	2-Methylnaphthalene	200		110	200	ug/Kg
77-47-4	Hexachlorocyclopentadiene	400	U	250	400	ug/Kg
88-06-2	2,4,6-Trichlorophenol	200	U	92.4	200	ug/Kg
95-95-4	2,4,5-Trichlorophenol	200	U	110	200	ug/Kg
92-52-4	1,1-Biphenyl	200	U	110	200	ug/Kg
91-58-7	2-Chloronaphthalene	200	U	100	200	ug/Kg
88-74-4	2-Nitroaniline	200	U	120	200	ug/Kg
131-11-3	Dimethylphthalate	130	J	110	200	ug/Kg
208-96-8	Acenaphthylene	120	J	110	200	ug/Kg
606-20-2	2,6-Dinitrotoluene	200	U	110	200	ug/Kg

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/13/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-10-(0.5-2.0)	SDG No.:	O3645
Lab Sample ID:	O3645-06	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	83.3
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF134566.D	1	07/18/23 09:45	08/02/23 00:41	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
99-09-2	3-Nitroaniline	200	U	110	200	ug/Kg
83-32-9	Acenaphthene	260		96.2	200	ug/Kg
51-28-5	2,4-Dinitrophenol	400	U	220	400	ug/Kg
100-02-7	4-Nitrophenol	400	U	140	400	ug/Kg
132-64-9	Dibenzofuran	220		92.2	200	ug/Kg
121-14-2	2,4-Dinitrotoluene	200	U	120	200	ug/Kg
84-66-2	Diethylphthalate	200	U	100	200	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	200	U	110	200	ug/Kg
86-73-7	Fluorene	290		100	200	ug/Kg
100-01-6	4-Nitroaniline	200	U	120	200	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	400	U	110	400	ug/Kg
86-30-6	n-Nitrosodiphenylamine	200	U	110	200	ug/Kg
101-55-3	4-Bromophenyl-phenylether	200	U	120	200	ug/Kg
118-74-1	Hexachlorobenzene	200	U	120	200	ug/Kg
1912-24-9	Atrazine	200	U	110	200	ug/Kg
87-86-5	Pentachlorophenol	400	U	130	400	ug/Kg
85-01-8	Phenanthrene	2900		110	200	ug/Kg
120-12-7	Anthracene	790		120	200	ug/Kg
86-74-8	Carbazole	430		100	200	ug/Kg
84-74-2	Di-n-butylphthalate	120	J	120	200	ug/Kg
206-44-0	Fluoranthene	3400	E	110	200	ug/Kg
129-00-0	Pyrene	3100		100	200	ug/Kg
85-68-7	Butylbenzylphthalate	200	U	120	200	ug/Kg
91-94-1	3,3-Dichlorobenzidine	400	U	190	400	ug/Kg
56-55-3	Benzo(a)anthracene	1800		100	200	ug/Kg
218-01-9	Chrysene	1900		100	200	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	200	U	140	200	ug/Kg
117-84-0	Di-n-octyl phthalate	400	U	150	400	ug/Kg
205-99-2	Benzo(b)fluoranthene	2400		96.2	200	ug/Kg
207-08-9	Benzo(k)fluoranthene	880		110	200	ug/Kg
50-32-8	Benzo(a)pyrene	1700		110	200	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1000		130	200	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	320		120	200	ug/Kg

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/13/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-10-(0.5-2.0)	SDG No.:	O3645
Lab Sample ID:	O3645-06	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	83.3
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF134566.D	1	07/18/23 09:45	08/02/23 00:41	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
191-24-2	Benzo(g,h,i)perylene	1200		110	200	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	200	U	110	200	ug/Kg
123-91-1	1,4-Dioxane	200	U	140	200	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	200	U	99.4	200	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	104		18 - 112	70%	SPK: 150
13127-88-3	Phenol-d6	103		21 - 104	69%	SPK: 150
4165-60-0	Nitrobenzene-d5	87.4		27 - 109	87%	SPK: 100
321-60-8	2-Fluorobiphenyl	86.6		30 - 103	87%	SPK: 100
118-79-6	2,4,6-Tribromophenol	106		10 - 121	70%	SPK: 150
1718-51-0	Terphenyl-d14	86.5		21 - 107	86%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	186000	6.793			
1146-65-2	Naphthalene-d8	688000	8.069			
15067-26-2	Acenaphthene-d10	289000	9.828			
1517-22-2	Phenanthrene-d10	478000	11.316			
1719-03-5	Chrysene-d12	297000	13.969			
1520-96-3	Perylene-d12	259000	15.427			
TENTATIVE IDENTIFIED COMPOUNDS						
90-12-0	1-Methylnaphthalene	150	J		8.88	ug/Kg
000544-76-3	Hexadecane	440	J		9.23	ug/Kg
1000309-17-6	Sulfurous acid, butyl nonyl ester	290	J		9.77	ug/Kg
013798-23-7	Hexathiane	310	J		10.1	ug/Kg
055045-10-8	Tridecane, 6-propyl-	560	J		10.7	ug/Kg
000629-59-4	Tetradecane	440	J		11.2	ug/Kg
000629-92-5	Nonadecane	500	J		11.6	ug/Kg
000613-12-7	Anthracene, 2-methyl-	330	J		11.8	ug/Kg
000112-95-8	Eicosane	610	J		12.0	ug/Kg
000612-94-2	Naphthalene, 2-phenyl-	440	J		12.1	ug/Kg
000629-94-7	Heneicosane	950	J		12.4	ug/Kg
000057-11-4	Octadecanoic acid	440	J		12.7	ug/Kg
000629-99-2	Pentacosane	580	J		13.2	ug/Kg

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/13/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-10-(0.5-2.0)	SDG No.:	O3645
Lab Sample ID:	O3645-06	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	83.3
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF134566.D	1	07/18/23 09:45	08/02/23 00:41	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
000630-01-3	Hexacosane	510	J		13.5	ug/Kg
001740-19-8	Dehydroabietic acid	260	J		13.8	ug/Kg
000646-31-1	Tetracosane	500	J		13.8	ug/Kg
054833-23-7	Eicosane, 10-methyl-	390	J		14.2	ug/Kg
000638-68-6	Triacontane	330	J		14.5	ug/Kg
000629-78-7	Heptadecane	2000	J		14.8	ug/Kg
000192-97-2	Benzo[e]pyrene	2000	J		15.1	ug/Kg
000198-55-0	Perylene	2400	J		15.3	ug/Kg

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

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080123\
Data File : BF134566.D
Acq On : 02 Aug 2023 00:41
Operator : CG\JU
Sample : 03645-06
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-10-(0.5-2.0)

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

Quant Time: Aug 02 02:47:44 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 02 02:20:34 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.793	152	186419	20.000	ng		0.00
21) Naphthalene-d8	8.069	136	688439	20.000	ng	#	0.00
39) Acenaphthene-d10	9.828	164	288810	20.000	ng		0.00
64) Phenanthrene-d10	11.316	188	477851	20.000	ng	#	0.00
76) Chrysene-d12	13.969	240	297316	20.000	ng	#	0.00
86) Perylene-d12	15.427	264	259002	20.000	ng	#	0.01
System Monitoring Compounds							
5) 2-Fluorophenol	5.422	112	1280772	104.437	ng		0.00
7) Phenol-d6	6.428	99	1617863	103.202	ng		0.00
23) Nitrobenzene-d5	7.357	82	962386	87.360	ng		0.00
42) 2,4,6-Tribromophenol	10.616	330	310847	105.581	ng		0.00
45) 2-Fluorobiphenyl	9.151	172	1503838	86.577	ng		0.00
79) Terphenyl-d14	12.910	244	1458203	86.461	ng		0.00
Target Compounds							Qvalue
31) Naphthalene	8.092	128	234550	6.779	ng		98
37) 2-Methylnaphthalene	8.787	142	117658	5.130	ng		98
38) 1-Methylnaphthalene	8.881	142	81194	3.807	ng		100
49) Acenaphthylene	9.686	152	78802	2.979	ng		97
50) Dimethylphthalate	9.545	163	66371	3.372	ng	#	96
52) Acenaphthene	9.857	154	112125	6.541	ng		98
55) Dibenzofuran	10.028	168	135784	5.564	ng		95
58) Fluorene	10.375	166	128141	7.209	ng		96
71) Phenanthrene	11.345	178	1827561	72.004	ng		100
72) Anthracene	11.392	178	510272	19.682	ng		99
73) Carbazole	11.545	167	247328	10.684	ng		100
74) Di-n-butylphthalate	11.886	149	75540	3.072	ng	#	93
75) Fluoranthene	12.545	202	2290804	85.443	ng		97
78) Pyrene	12.769	202	2010084	78.131	ng		97
81) Benzo(a)anthracene	13.957	228	964259	45.357	ng		97
83) Chrysene	13.992	228	1001774m	48.366	ng		
87) Indeno(1,2,3-cd)pyrene	16.904	276	398875	26.186	ng	#	94
88) Benzo(b)fluoranthene	15.004	252	953668m	60.373	ng		
89) Benzo(k)fluoranthene	15.033	252	345138m	21.933	ng		
90) Benzo(a)pyrene	15.368	252	611304	41.506	ng	#	92
91) Dibenzo(a,h)anthracene	16.921	278	99807	8.108	ng	#	89
92) Benzo(g,h,i)perylene	17.357	276	387543	30.862	ng	#	93

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

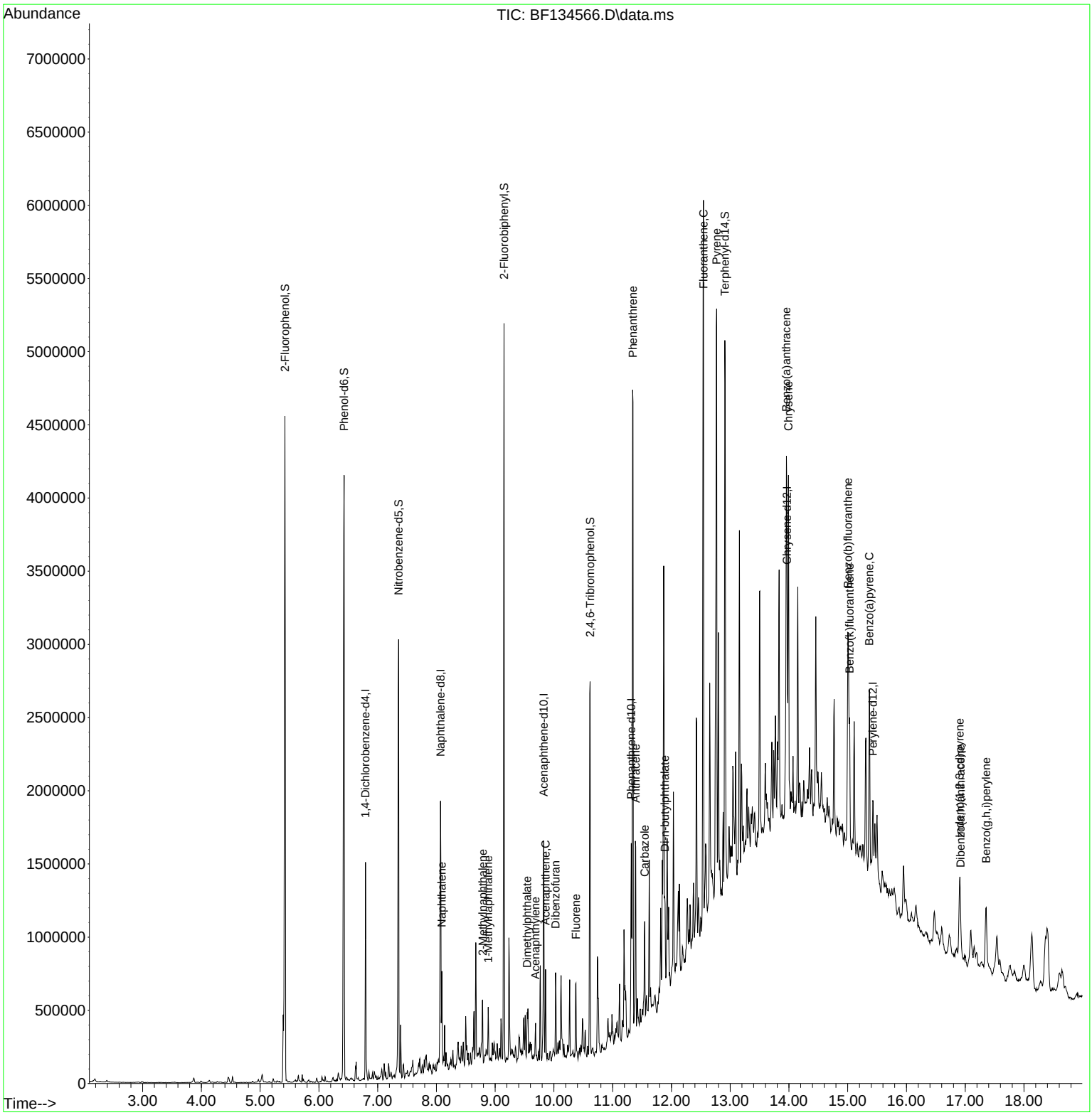
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080123\
Data File : BF134566.D
Acq On : 02 Aug 2023 00:41
Operator : CG\JU
Sample : 03645-06
Misc :
ALS Vial : 21 Sample Multiplier: 1

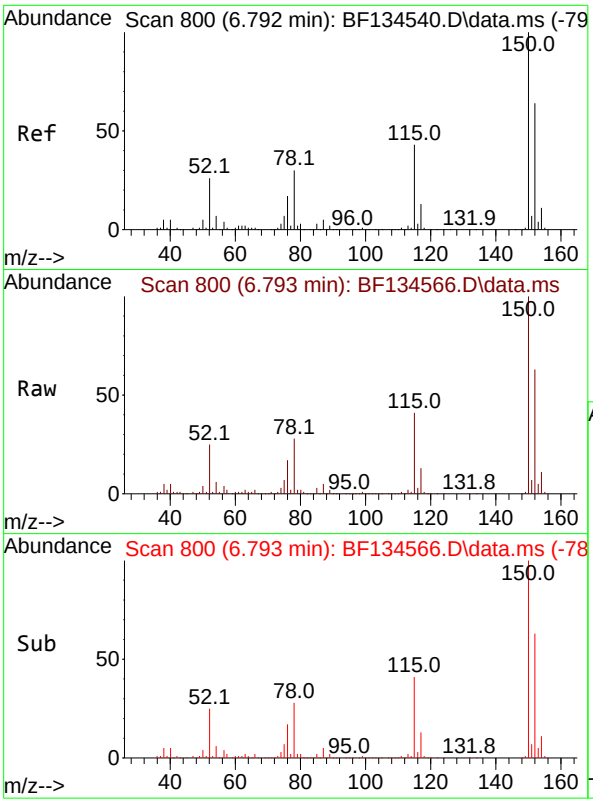
Quant Time: Aug 02 02:47:44 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 02 02:20:34 2023
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SB-10-(0.5-2.0)

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

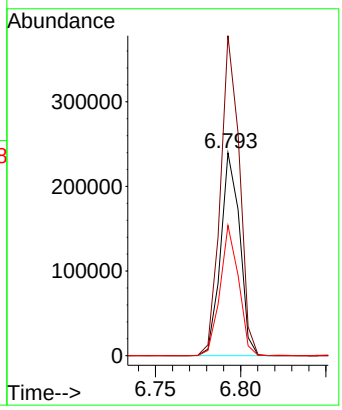




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.793 min Scan# 8
Delta R.T. 0.001 min
Lab File: BF134566.D
Acq: 02 Aug 2023 00:41

Tgt Ion:152 Resp: 18641

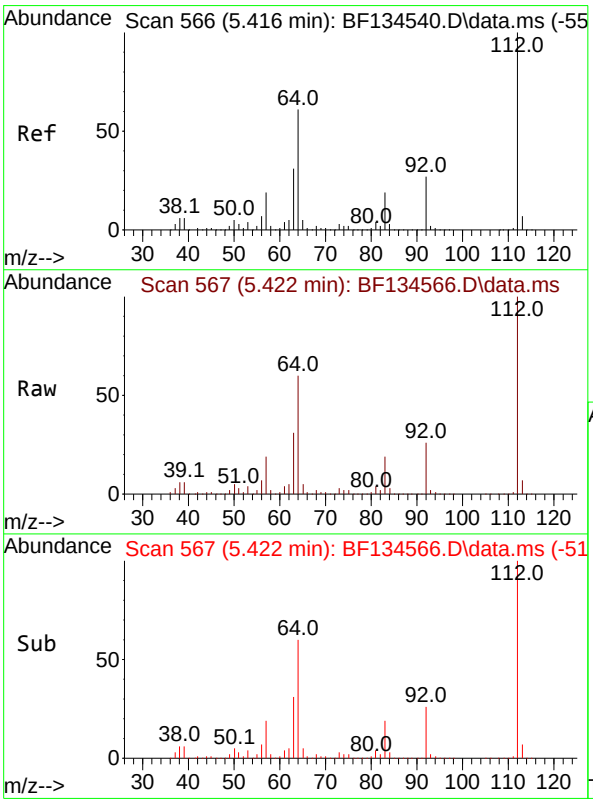
Ion	Ratio	Lower	Upper
152	100		
150	157.7	128.3	192.5
115	64.2	52.4	78.6



Instrument :
BNA_F
ClientSampleId :
SB-10-(0.5-2.0)

Manual Integrations
APPROVED

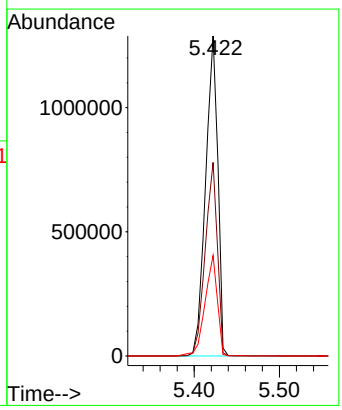
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

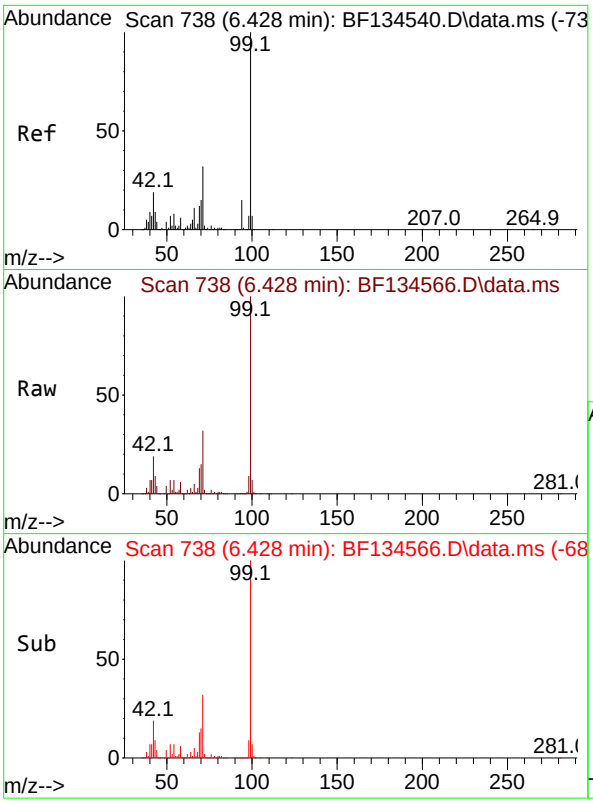


#5
2-Fluorophenol
Concen: 104.437 ng
RT: 5.422 min Scan# 567
Delta R.T. 0.006 min
Lab File: BF134566.D
Acq: 02 Aug 2023 00:41

Tgt Ion:112 Resp: 1280772

Ion	Ratio	Lower	Upper
112	100		
64	60.5	44.9	67.3
63	31.4	25.4	38.0

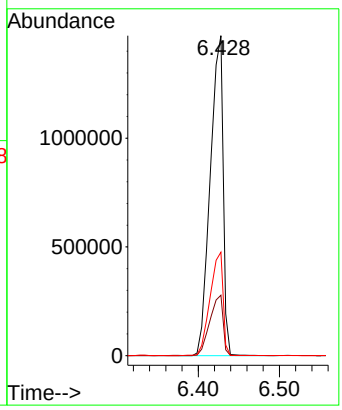




#7
Phenol-d6
Concen: 103.202 ng
RT: 6.428 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF134566.D
Acq: 02 Aug 2023 00:41

Tgt Ion: 99 Resp: 161786

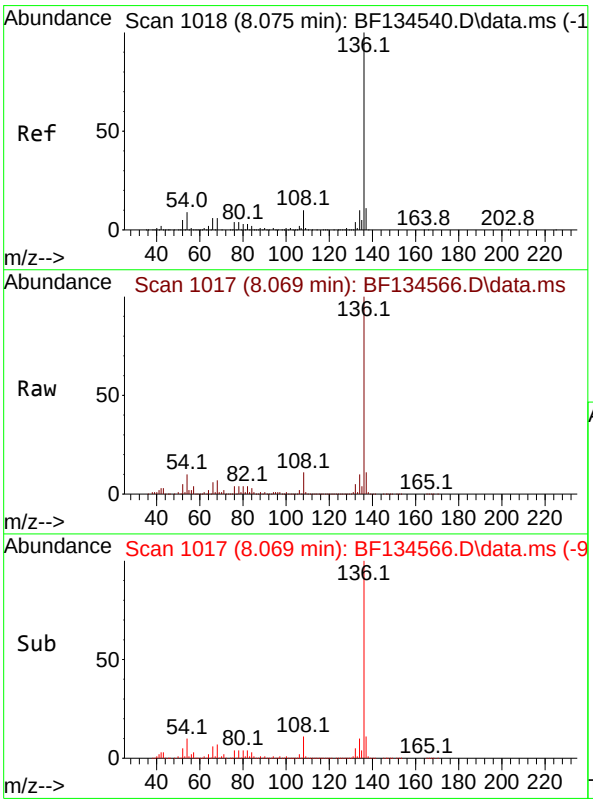
Ion	Ratio	Lower	Upper
99	100		
42	18.9	18.7	28.1
71	32.3	36.4	54.6#



Instrument :
BNA_F
ClientSampleId :
SB-10-(0.5-2.0)

Manual Integrations
APPROVED

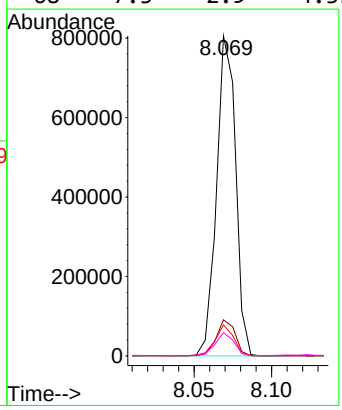
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

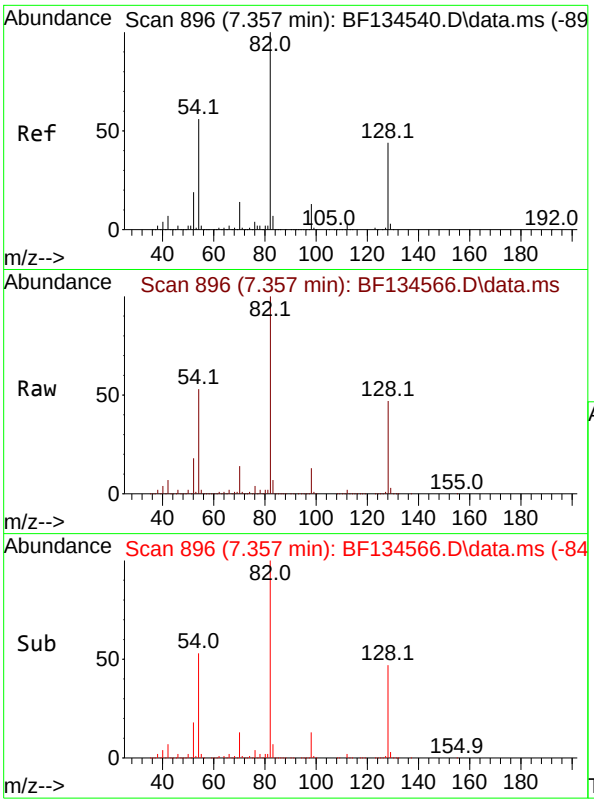


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.069 min Scan# 1017
Delta R.T. -0.006 min
Lab File: BF134566.D
Acq: 02 Aug 2023 00:41

Tgt Ion:136 Resp: 688439

Ion	Ratio	Lower	Upper
136	100		
137	11.3	8.4	12.6
54	9.7	5.2	7.8#
68	7.3	2.9	4.3#

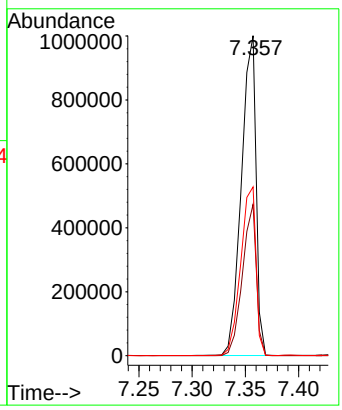




#23
Nitrobenzene-d5
Concen: 87.360 ng
RT: 7.357 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF134566.D
Acq: 02 Aug 2023 00:41

Tgt Ion: 82 Resp: 96238

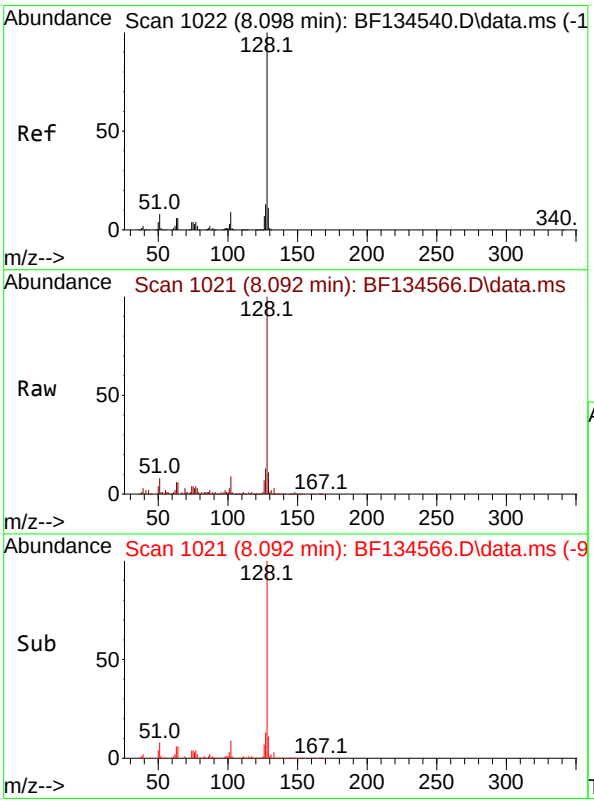
Ion	Ratio	Lower	Upper
82	100		
128	47.3	34.3	51.5
54	52.8	43.8	65.6



Instrument :
BNA_F
ClientSampleId :
SB-10-(0.5-2.0)

Manual Integrations
APPROVED

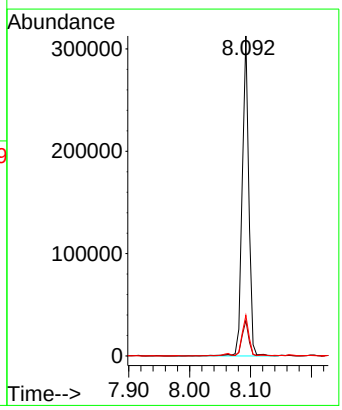
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

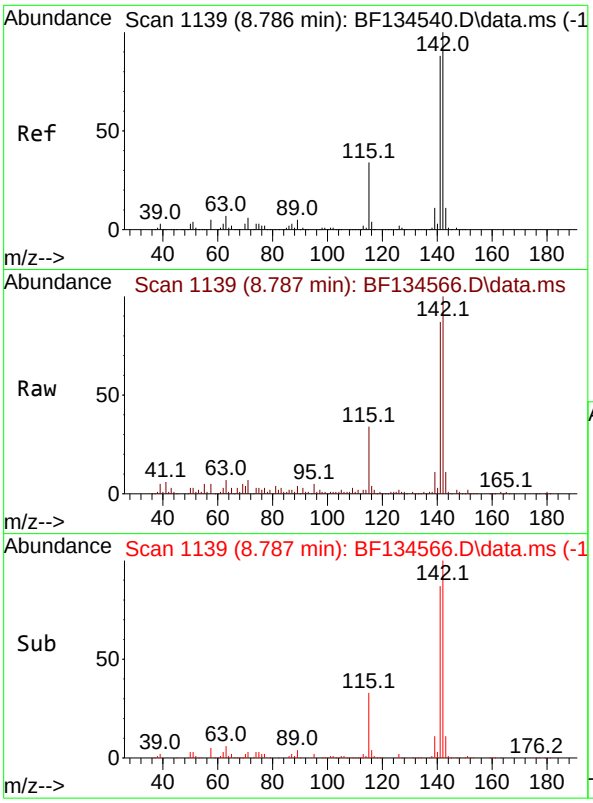


#31
Naphthalene
Concen: 6.779 ng
RT: 8.092 min Scan# 1021
Delta R.T. -0.006 min
Lab File: BF134566.D
Acq: 02 Aug 2023 00:41

Tgt Ion:128 Resp: 234550

Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.4	12.6
127	12.7	10.7	16.1

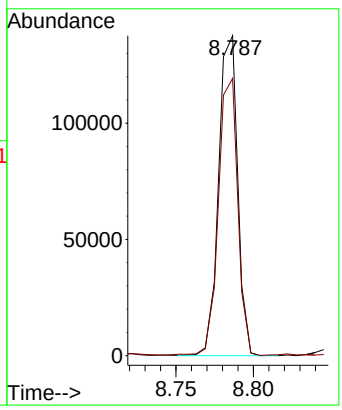




#37
2-Methylnaphthalene
Concen: 5.130 ng
RT: 8.787 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134566.D
Acq: 02 Aug 2023 00:41

Tgt Ion:142 Resp: 11765

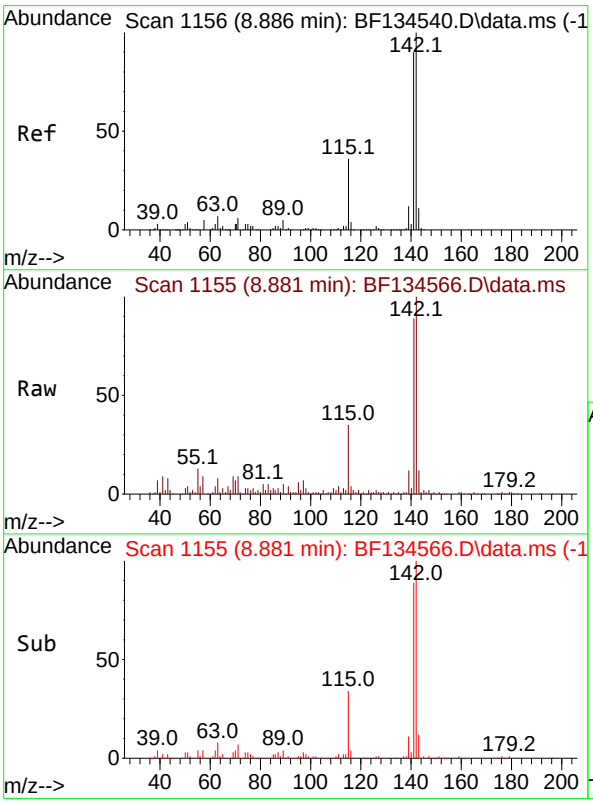
Ion	Ratio	Lower	Upper
142	100		
141	86.7	70.8	106.2



Instrument :
BNA_F
ClientSampleId :
SB-10-(0.5-2.0)

Manual Integrations
APPROVED

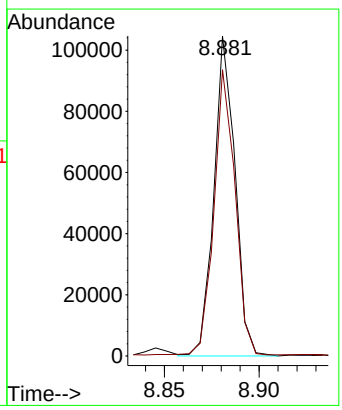
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

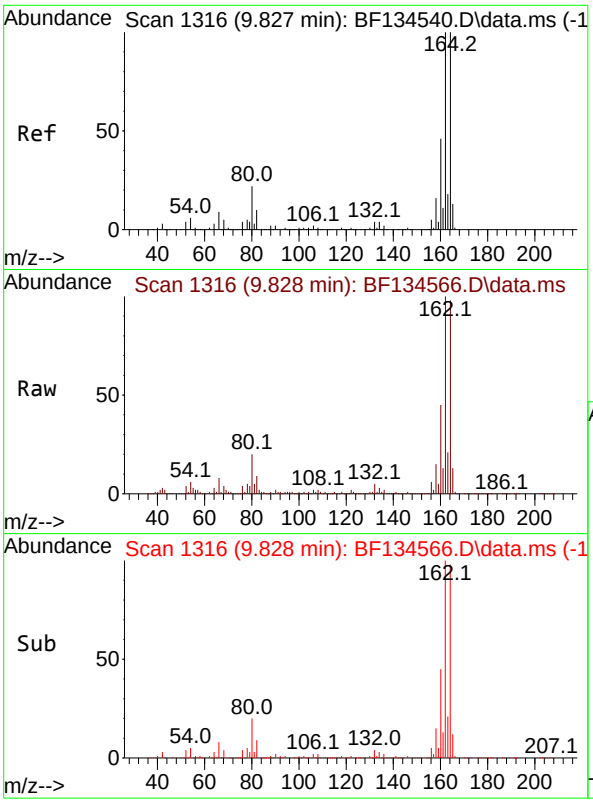


#38
1-Methylnaphthalene
Concen: 3.807 ng
RT: 8.881 min Scan# 1155
Delta R.T. -0.006 min
Lab File: BF134566.D
Acq: 02 Aug 2023 00:41

Tgt Ion:142 Resp: 81194

Ion	Ratio	Lower	Upper
142	100		
141	89.5	71.4	107.2

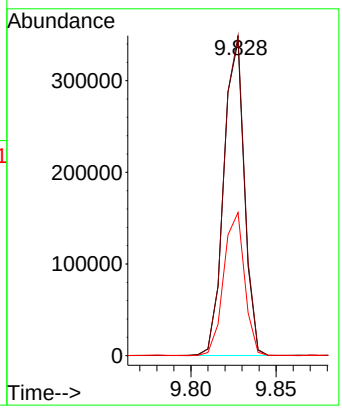




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.828 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134566.D
Acq: 02 Aug 2023 00:41

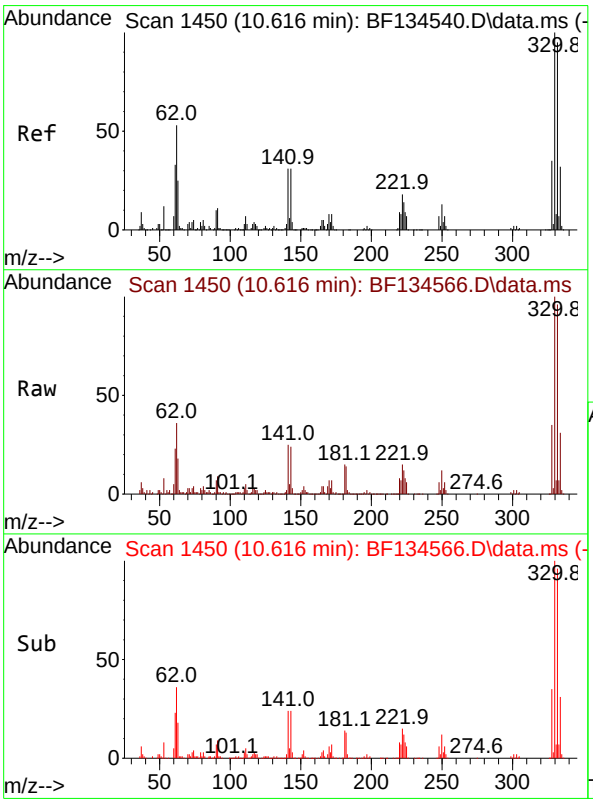
Tgt Ion:164 Resp: 28881

Ion	Ratio	Lower	Upper
164	100		
162	101.7	82.6	123.8
160	45.5	37.2	55.8



Instrument :
BNA_F
ClientSampleId :
SB-10-(0.5-2.0)

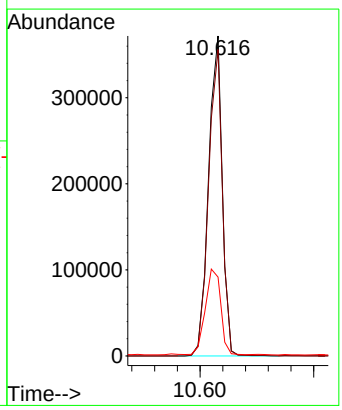
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

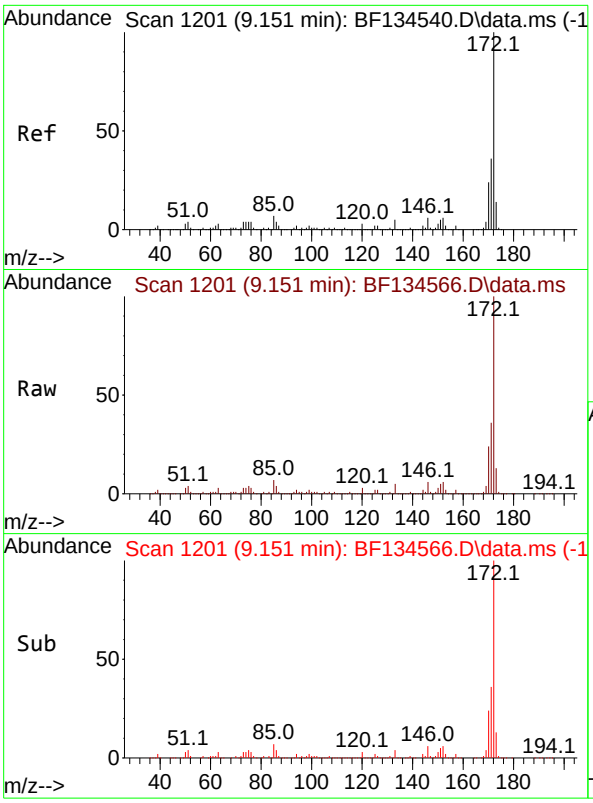


#42
2,4,6-Tribromophenol
Concen: 105.581 ng
RT: 10.616 min Scan# 1450
Delta R.T. 0.000 min
Lab File: BF134566.D
Acq: 02 Aug 2023 00:41

Tgt Ion:330 Resp: 310847

Ion	Ratio	Lower	Upper
330	100		
332	96.4	78.8	118.2
141	30.0	25.4	38.2

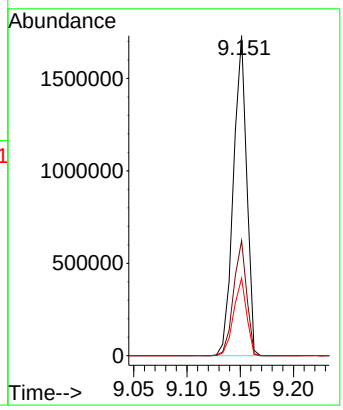




#45
2-Fluorobiphenyl
Concen: 86.577 ng
RT: 9.151 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134566.D
Acq: 02 Aug 2023 00:41

Tgt Ion:172 Resp: 150383

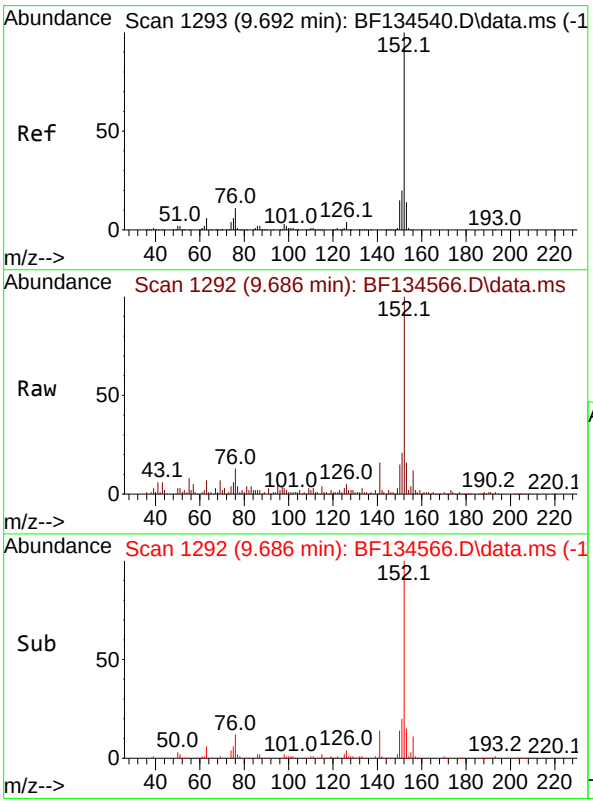
Ion	Ratio	Lower	Upper
172	100		
171	36.0	28.8	43.2
170	24.2	18.7	28.1



Instrument :
BNA_F
ClientSampleId :
SB-10-(0.5-2.0)

Manual Integrations
APPROVED

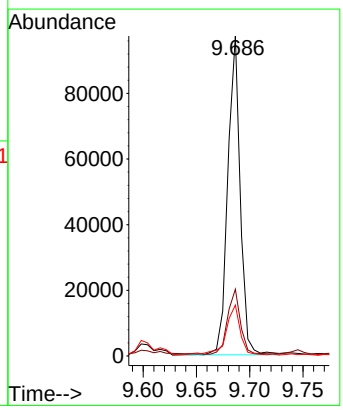
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

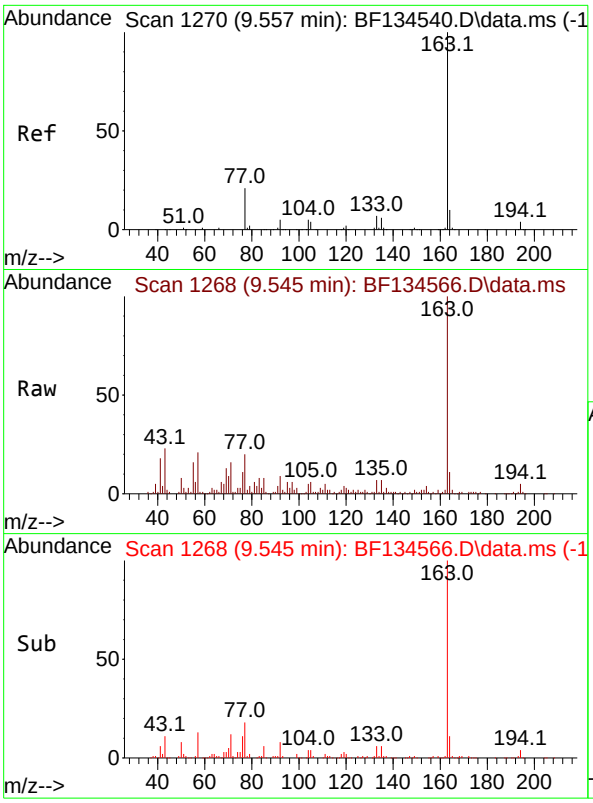


#49
Acenaphthylene
Concen: 2.979 ng
RT: 9.686 min Scan# 1292
Delta R.T. -0.006 min
Lab File: BF134566.D
Acq: 02 Aug 2023 00:41

Tgt Ion:152 Resp: 78802

Ion	Ratio	Lower	Upper
152	100		
151	20.8	16.4	24.6
153	15.9	10.9	16.3

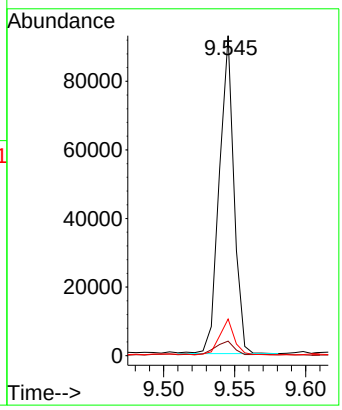




#50
Dimethylphthalate
Concen: 3.372 ng
RT: 9.545 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF134566.D
Acq: 02 Aug 2023 00:41

Tgt Ion:163 Resp: 6637

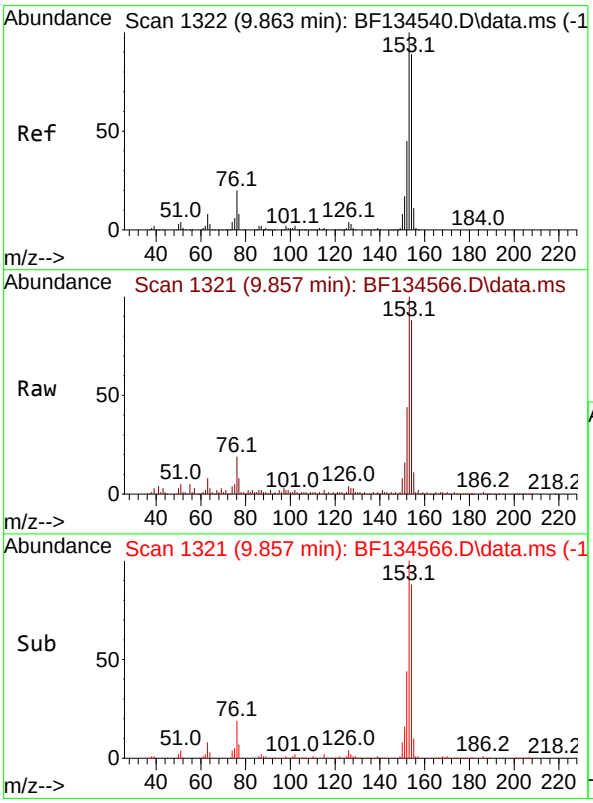
Ion	Ratio	Lower	Upper
163	100		
194	4.5	3.3	4.9
164	11.4	7.5	11.3#



Instrument :
BNA_F
ClientSampleId :
SB-10-(0.5-2.0)

Manual Integrations
APPROVED

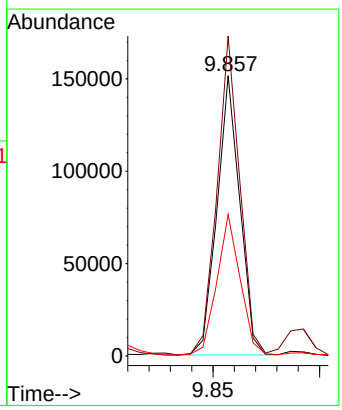
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

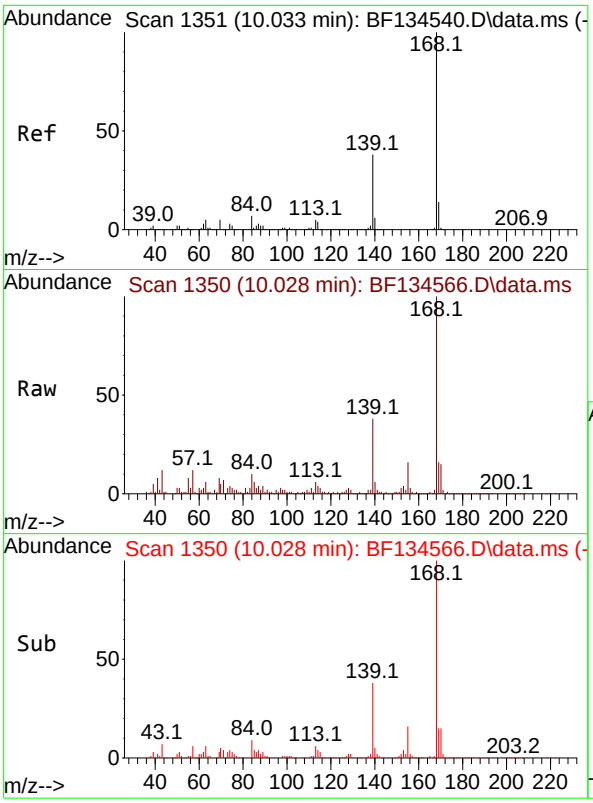


#52
Acenaphthene
Concen: 6.541 ng
RT: 9.857 min Scan# 1321
Delta R.T. -0.006 min
Lab File: BF134566.D
Acq: 02 Aug 2023 00:41

Tgt Ion:154 Resp: 112125

Ion	Ratio	Lower	Upper
154	100		
153	114.1	90.0	135.0
152	50.4	42.4	63.6





#55
Dibenzofuran
Concen: 5.564 ng
RT: 10.028 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF134566.D
Acq: 02 Aug 2023 00:41

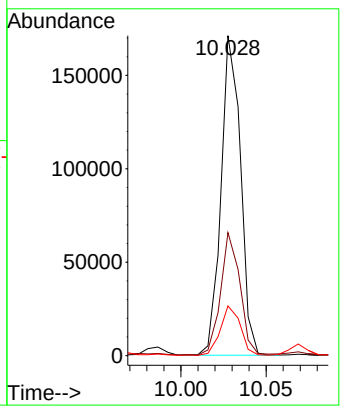
Tgt Ion:168 Resp: 13578

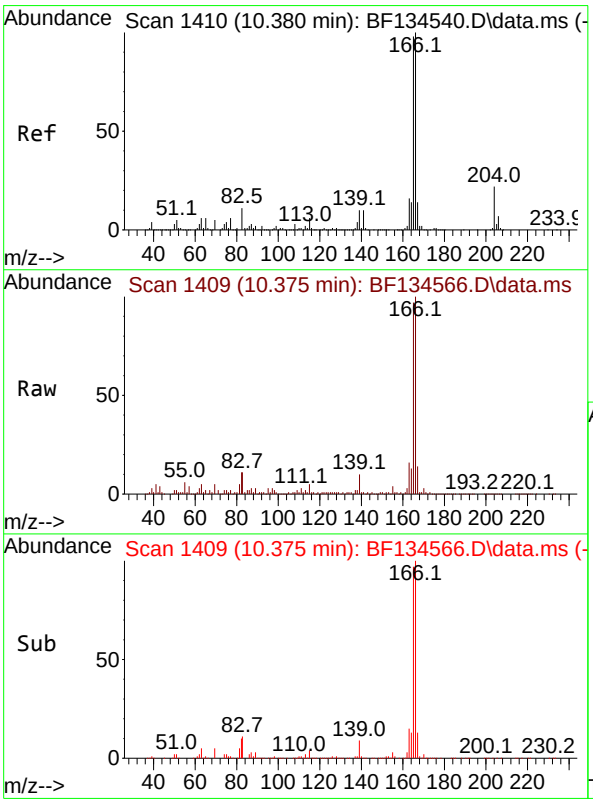
Ion	Ratio	Lower	Upper
168	100		
139	38.5	33.4	50.2
169	15.5	10.6	15.8

Instrument :
BNA_F
ClientSampleId :
SB-10-(0.5-2.0)

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

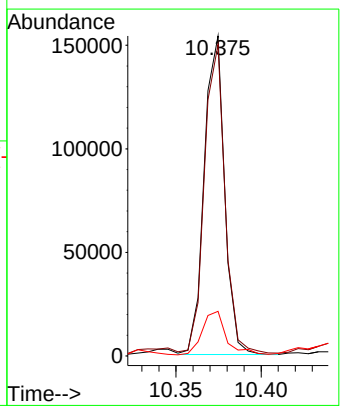


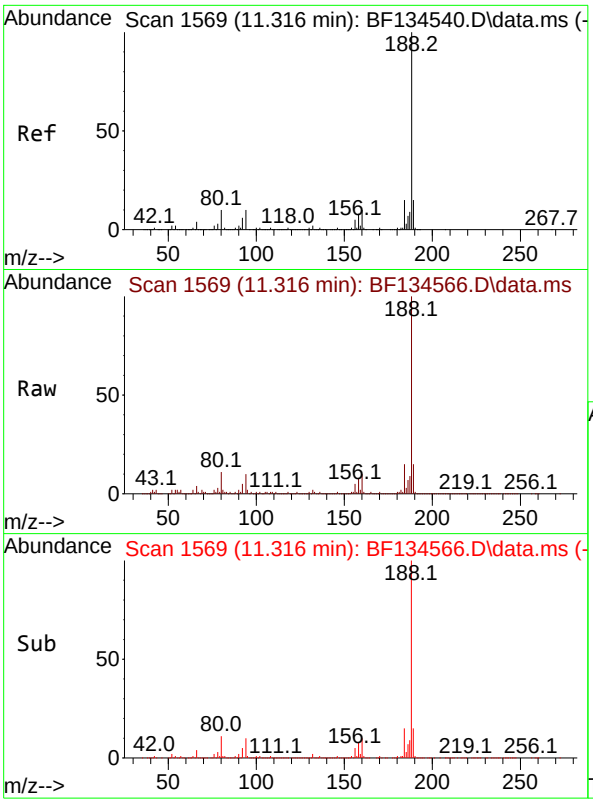


#58
Fluorene
Concen: 7.209 ng
RT: 10.375 min Scan# 1409
Delta R.T. -0.005 min
Lab File: BF134566.D
Acq: 02 Aug 2023 00:41

Tgt Ion:166 Resp: 128141

Ion	Ratio	Lower	Upper
166	100		
165	97.3	74.5	111.7
167	14.0	10.6	16.0

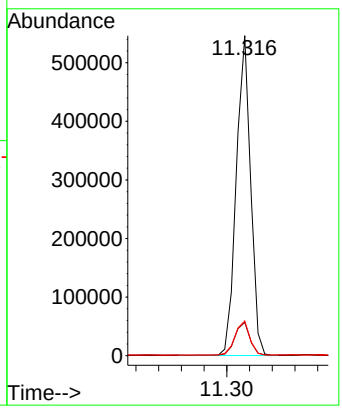




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.316 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134566.D
Acq: 02 Aug 2023 00:41

Tgt Ion:188 Resp: 47785

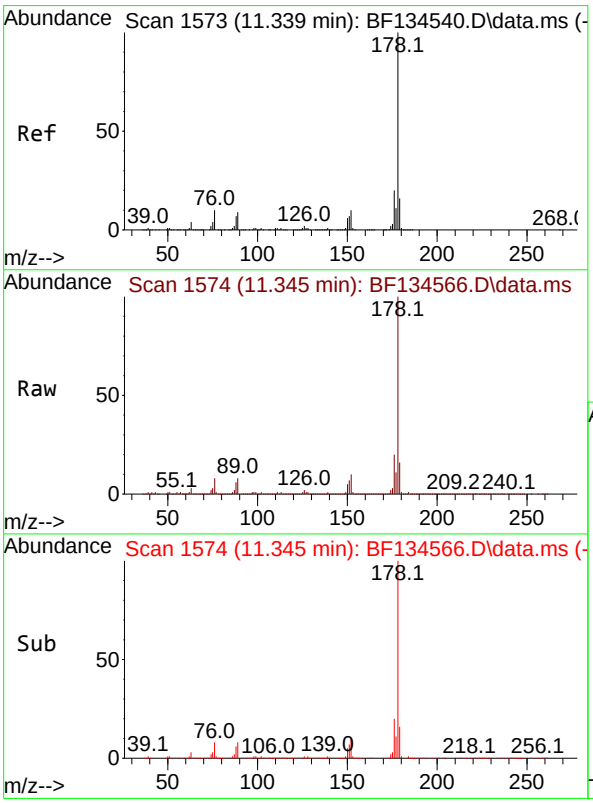
Ion	Ratio	Lower	Upper
188	100		
94	10.4	5.1	7.7
80	10.9	6.6	9.8



Instrument :
BNA_F
ClientSampleId :
SB-10-(0.5-2.0)

Manual Integrations
APPROVED

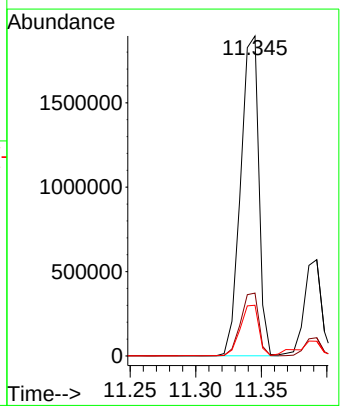
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

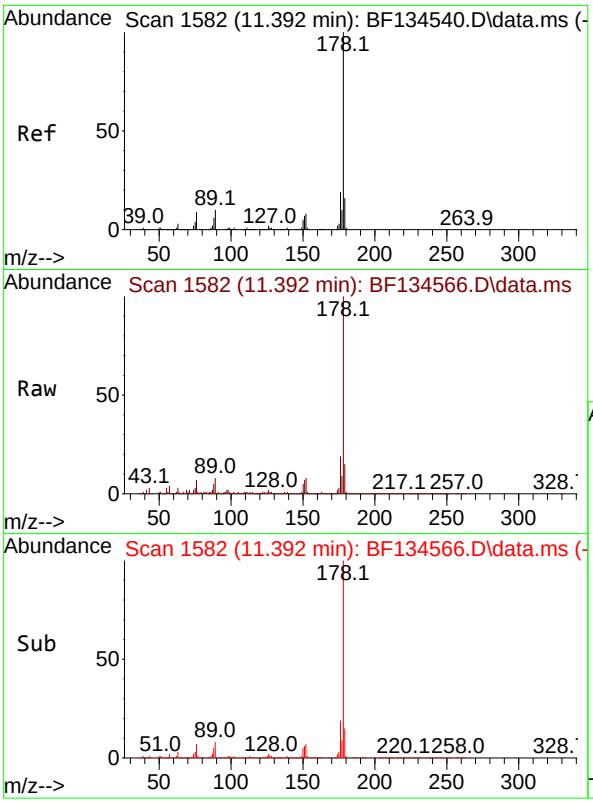


#71
Phenanthrene
Concen: 72.004 ng
RT: 11.345 min Scan# 1574
Delta R.T. 0.006 min
Lab File: BF134566.D
Acq: 02 Aug 2023 00:41

Tgt Ion:178 Resp: 1827561

Ion	Ratio	Lower	Upper
178	100		
176	19.7	15.8	23.6
179	15.8	12.7	19.1

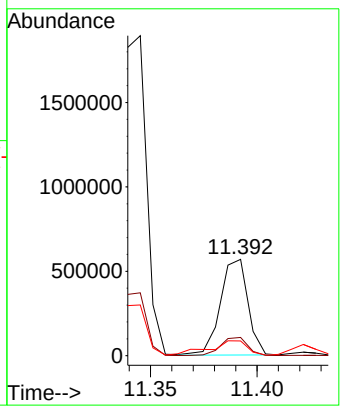




#72
Anthracene
Concen: 19.682 ng
RT: 11.392 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134566.D
Acq: 02 Aug 2023 00:41

Tgt Ion:178 Resp: 51027

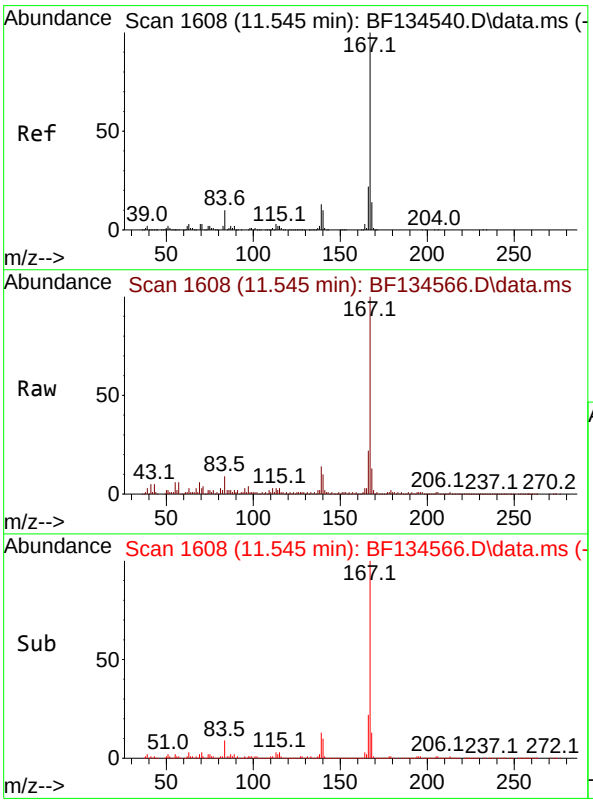
Ion	Ratio	Lower	Upper
178	100		
176	18.9	14.6	21.8
179	15.3	12.3	18.5



Instrument :
BNA_F
ClientSampleId :
SB-10-(0.5-2.0)

Manual Integrations
APPROVED

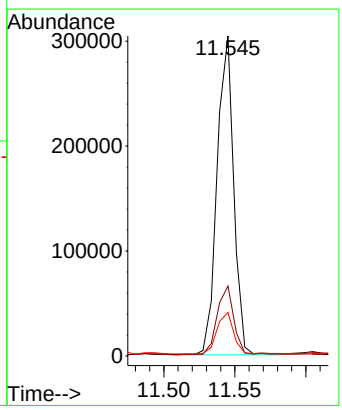
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

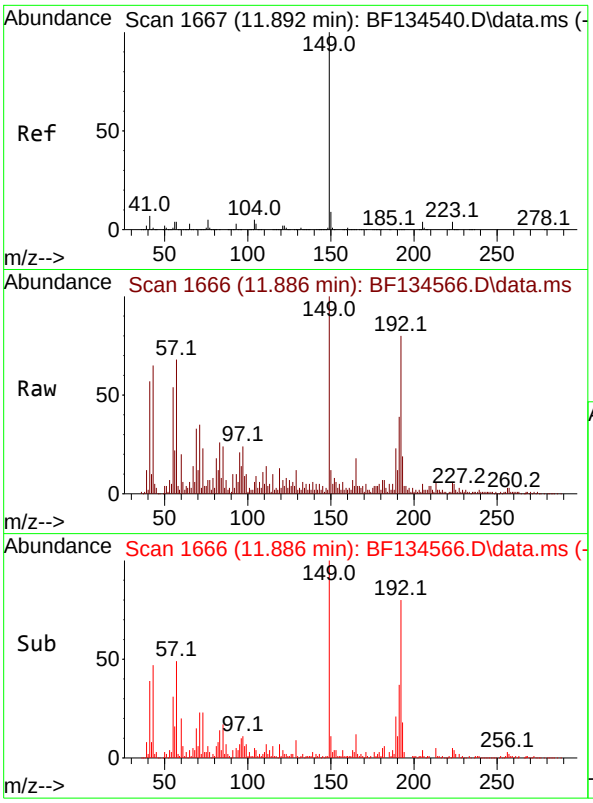


#73
Carbazole
Concen: 10.684 ng
RT: 11.545 min Scan# 1608
Delta R.T. 0.000 min
Lab File: BF134566.D
Acq: 02 Aug 2023 00:41

Tgt Ion:167 Resp: 247328

Ion	Ratio	Lower	Upper
167	100		
166	21.9	17.5	26.3
139	13.6	11.0	16.4

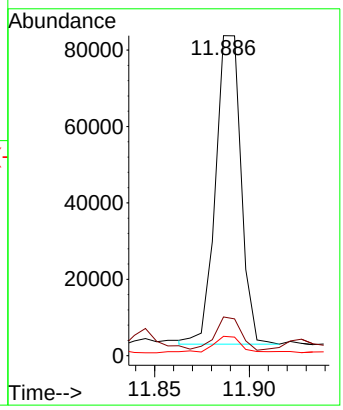




#74
Di-n-butylphthalate
Concen: 3.072 ng
RT: 11.886 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF134566.D
Acq: 02 Aug 2023 00:41

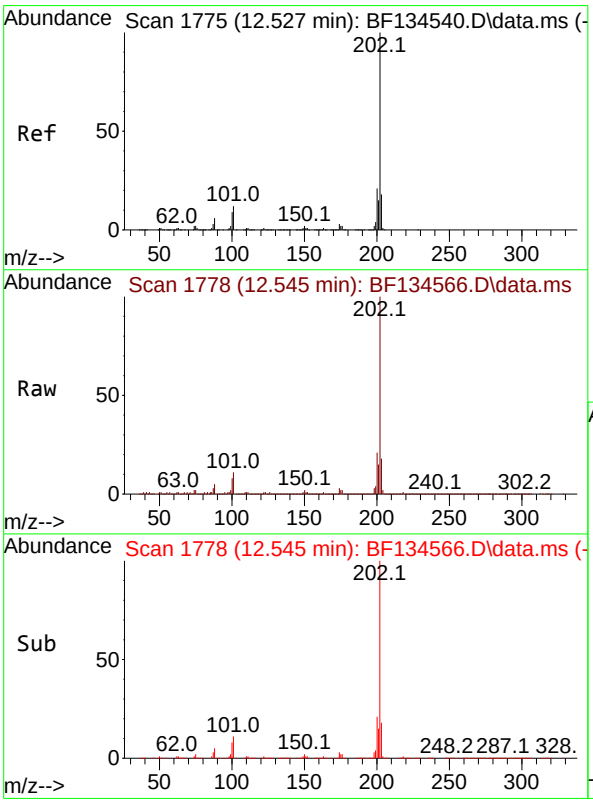
Tgt Ion:149 Resp: 7554

Ion	Ratio	Lower	Upper
149	100		
150	12.1	7.2	10.8
104	6.1	3.8	5.8



Instrument :
BNA_F
ClientSampleId :
SB-10-(0.5-2.0)

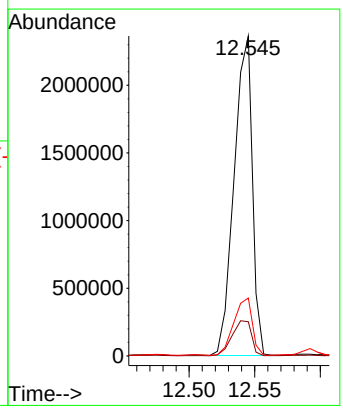
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

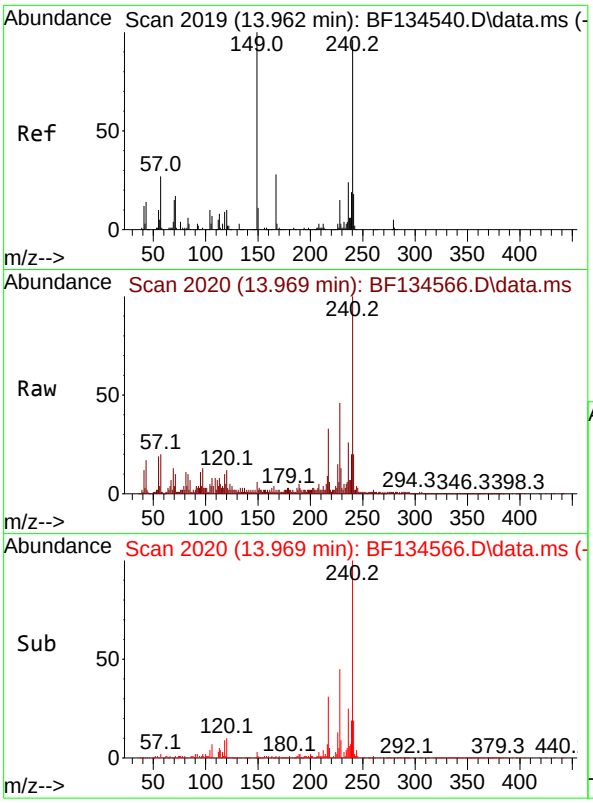


#75
Fluoranthene
Concen: 85.443 ng
RT: 12.545 min Scan# 1778
Delta R.T. 0.018 min
Lab File: BF134566.D
Acq: 02 Aug 2023 00:41

Tgt Ion:202 Resp: 2290804

Ion	Ratio	Lower	Upper
202	100		
101	10.7	0.0	28.5
203	18.1	0.0	37.5

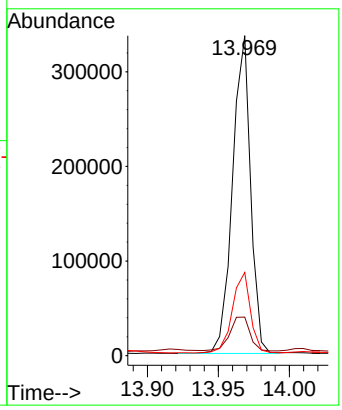




#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.969 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF134566.D
Acq: 02 Aug 2023 00:41

Tgt Ion:240 Resp: 29731

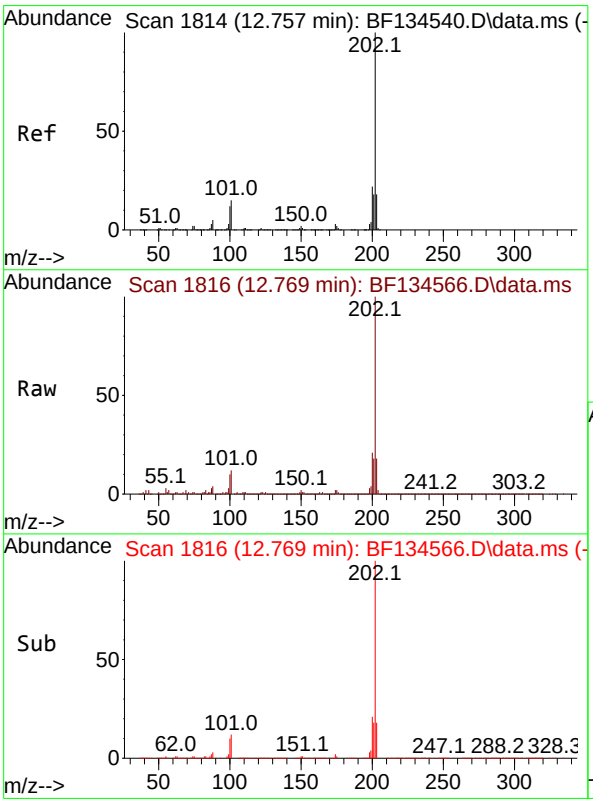
Ion	Ratio	Lower	Upper
240	100		
120	12.0	6.6	10.0
236	26.0	20.2	30.2



Instrument :
BNA_F
ClientSampleId :
SB-10-(0.5-2.0)

Manual Integrations
APPROVED

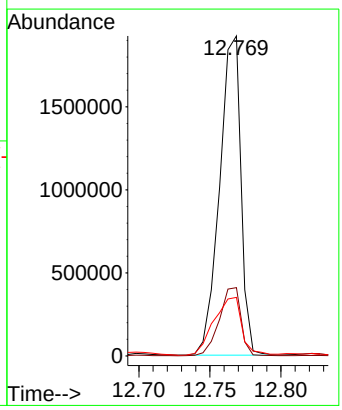
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

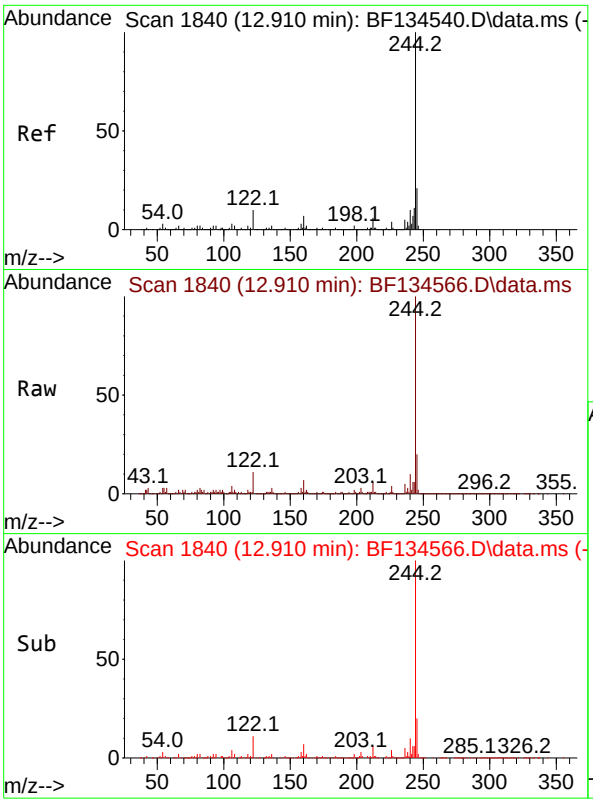


#78
Pyrene
Concen: 78.131 ng
RT: 12.769 min Scan# 1816
Delta R.T. 0.012 min
Lab File: BF134566.D
Acq: 02 Aug 2023 00:41

Tgt Ion:202 Resp: 2010084

Ion	Ratio	Lower	Upper
202	100		
200	21.4	15.8	23.8
203	18.3	13.5	20.3

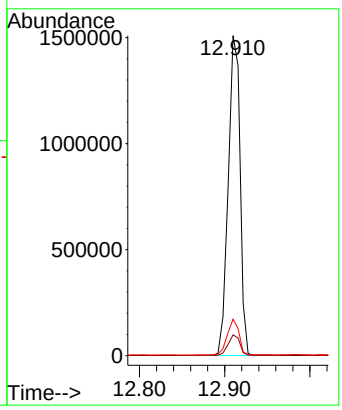




#79
Terphenyl-d14
Concen: 86.461 ng
RT: 12.910 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134566.D
Acq: 02 Aug 2023 00:41

Tgt Ion:244 Resp: 145820

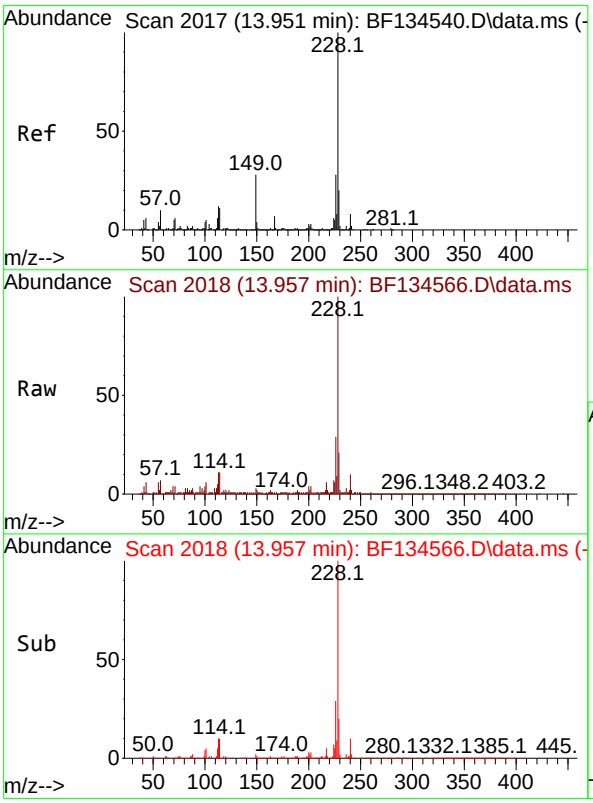
Ion	Ratio	Lower	Upper
244	100		
212	6.5	5.6	8.4
122	11.4	8.0	12.0



Instrument :
BNA_F
ClientSampleId :
SB-10-(0.5-2.0)

Manual Integrations
APPROVED

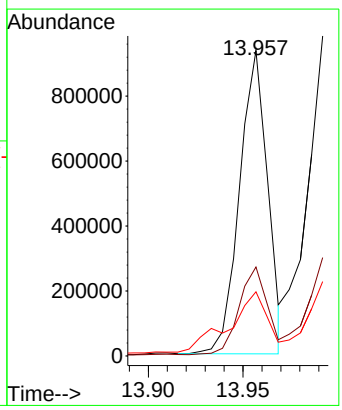
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

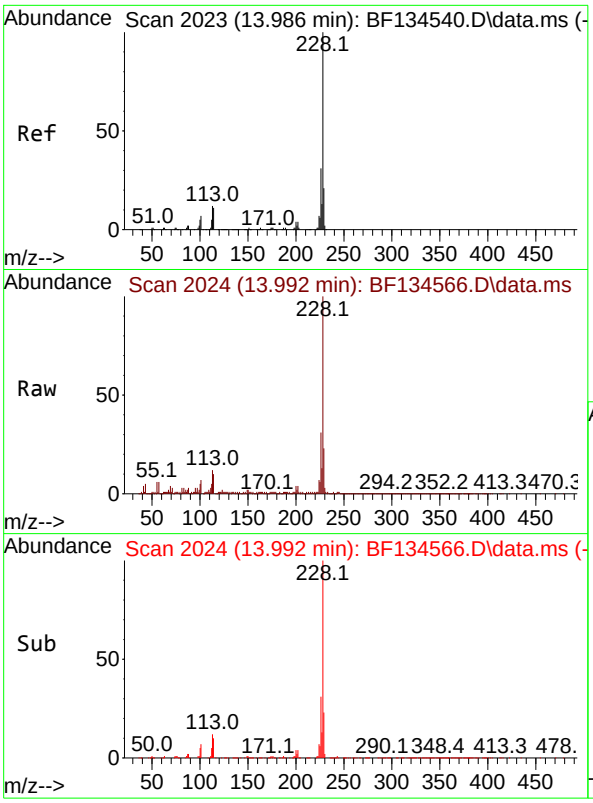


#81
Benzo(a)anthracene
Concen: 45.357 ng
RT: 13.957 min Scan# 2018
Delta R.T. 0.006 min
Lab File: BF134566.D
Acq: 02 Aug 2023 00:41

Tgt Ion:228 Resp: 964259

Ion	Ratio	Lower	Upper
228	100		
226	29.1	22.3	33.5
229	21.0	15.8	23.6

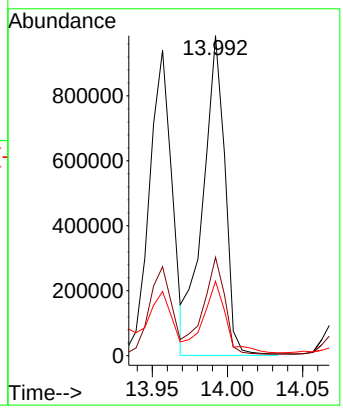




#83
Chrysene
Concen: 48.366 ng m
RT: 13.992 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF134566.D
Acq: 02 Aug 2023 00:41

Tgt Ion:228 Resp: 100177

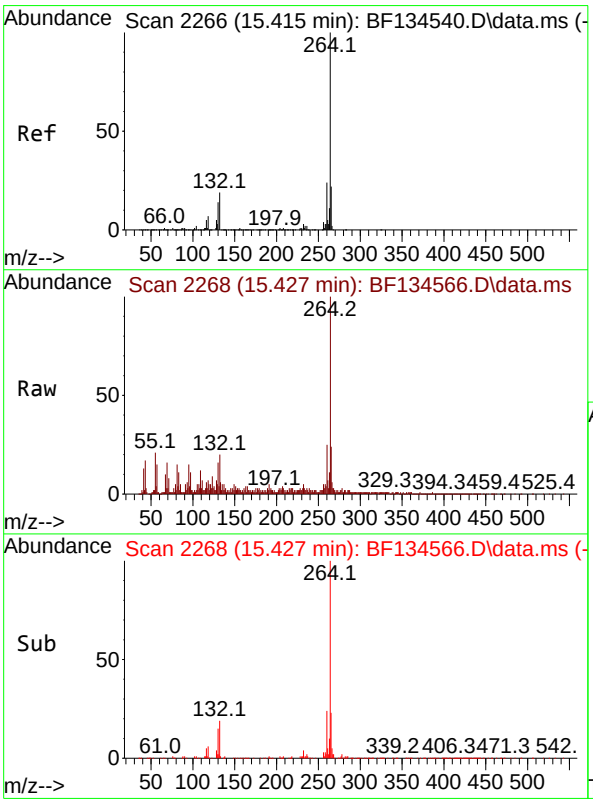
Ion	Ratio	Lower	Upper
228	100		
226	30.8	24.5	36.7
229	23.2	15.8	23.8



Instrument :
BNA_F
ClientSampleId :
SB-10-(0.5-2.0)

Manual Integrations
APPROVED

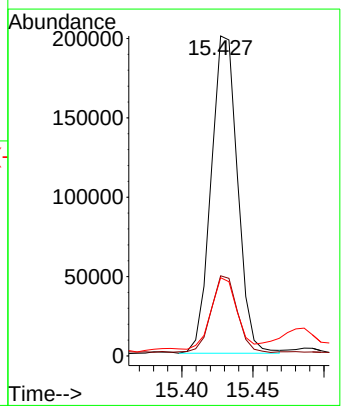
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

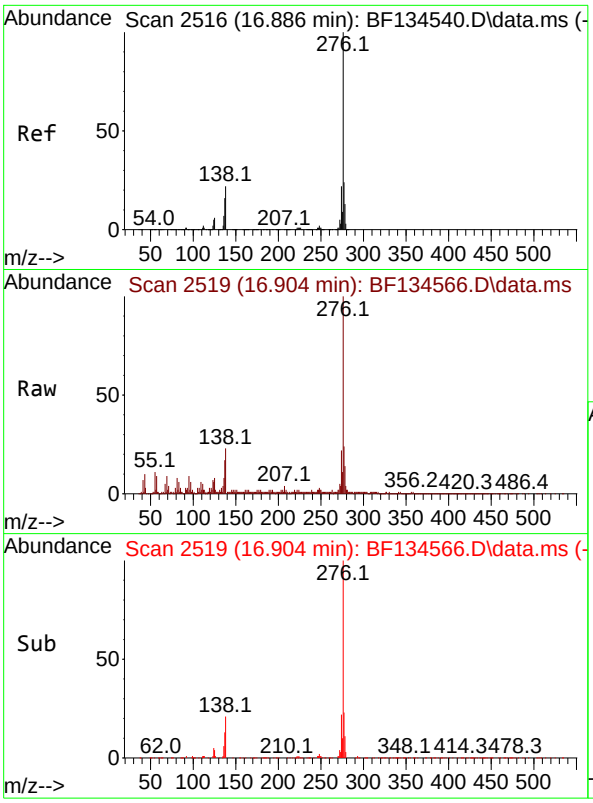


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.427 min Scan# 2268
Delta R.T. 0.012 min
Lab File: BF134566.D
Acq: 02 Aug 2023 00:41

Tgt Ion:264 Resp: 259002

Ion	Ratio	Lower	Upper
264	100		
260	25.0	18.4	27.6
265	24.4	15.8	23.8#

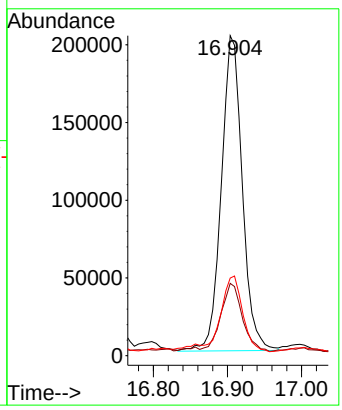




#87
Indeno(1,2,3-cd)pyrene
Concen: 26.186 ng
RT: 16.904 min Scan# 2
Delta R.T. 0.018 min
Lab File: BF134566.D
Acq: 02 Aug 2023 00:41

Tgt Ion:276 Resp: 39887

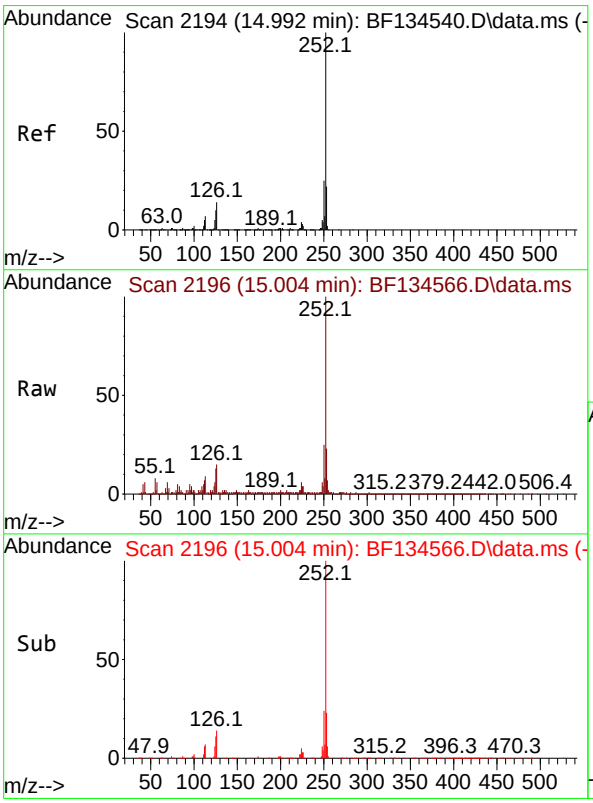
Ion	Ratio	Lower	Upper
276	100		
138	22.0	14.2	21.4#
277	26.4	19.9	29.9



Instrument :
BNA_F
ClientSampleId :
SB-10-(0.5-2.0)

Manual Integrations
APPROVED

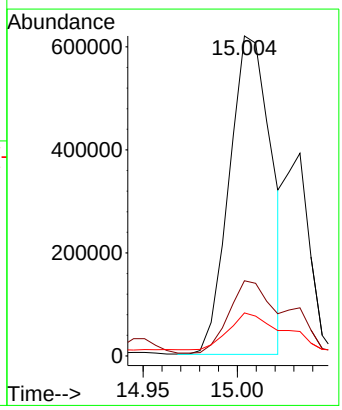
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

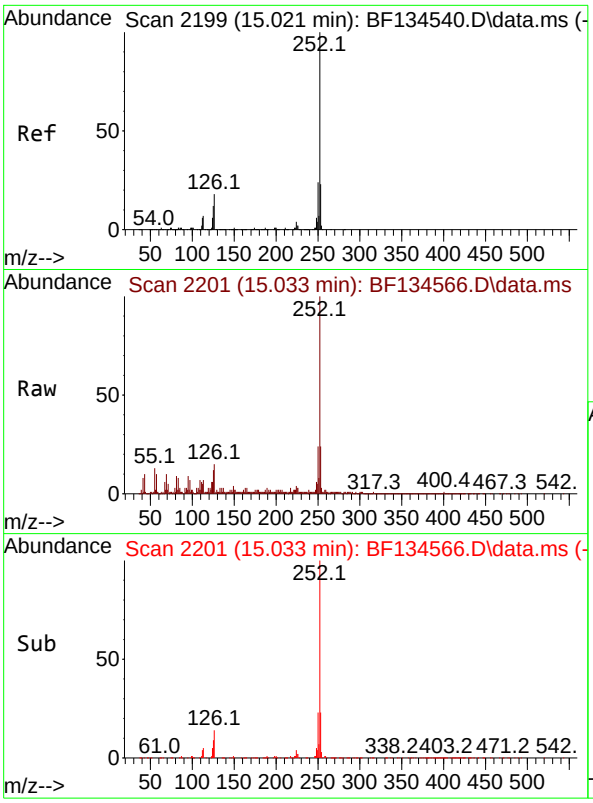


#88
Benzo(b)fluoranthene
Concen: 60.373 ng m
RT: 15.004 min Scan# 2196
Delta R.T. 0.012 min
Lab File: BF134566.D
Acq: 02 Aug 2023 00:41

Tgt Ion:252 Resp: 953668

Ion	Ratio	Lower	Upper
252	100		
253	23.5	17.3	25.9
125	13.4	6.0	9.0#

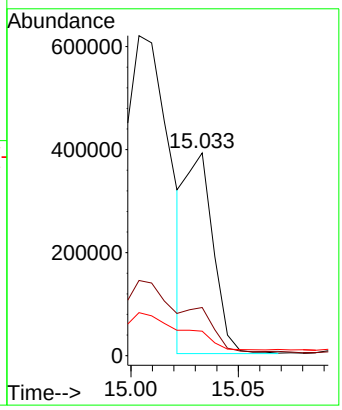




#89
Benzo(k)fluoranthene
Concen: 21.933 ng m
RT: 15.033 min Scan# 2
Delta R.T. 0.012 min
Lab File: BF134566.D
Acq: 02 Aug 2023 00:41

Tgt Ion:252 Resp: 34513

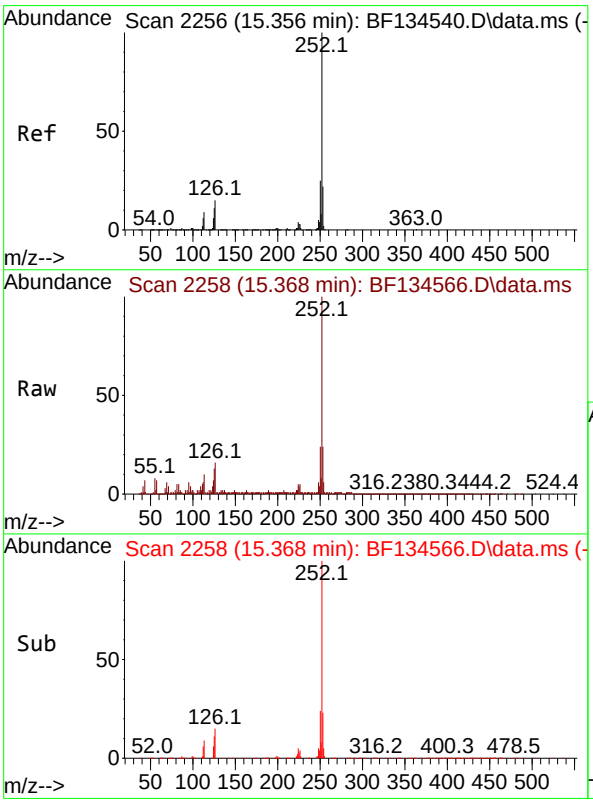
Ion	Ratio	Lower	Upper
252	100		
253	23.8	17.9	26.9
125	12.1	6.3	9.5#



Instrument :
BNA_F
ClientSampleId :
SB-10-(0.5-2.0)

Manual Integrations
APPROVED

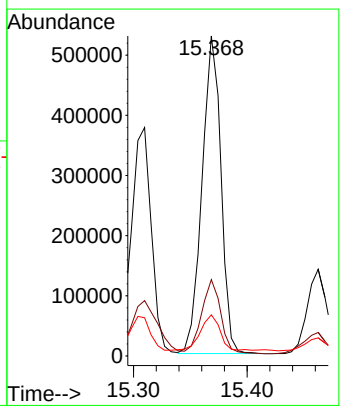
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

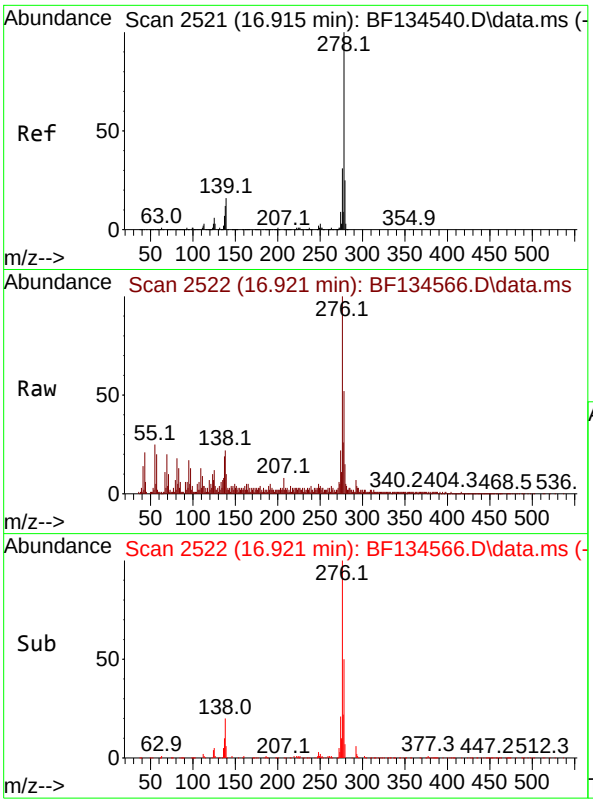


#90
Benzo(a)pyrene
Concen: 41.506 ng
RT: 15.368 min Scan# 2258
Delta R.T. 0.012 min
Lab File: BF134566.D
Acq: 02 Aug 2023 00:41

Tgt Ion:252 Resp: 611304

Ion	Ratio	Lower	Upper
252	100		
253	23.8	17.0	25.4
125	12.9	6.2	9.4#

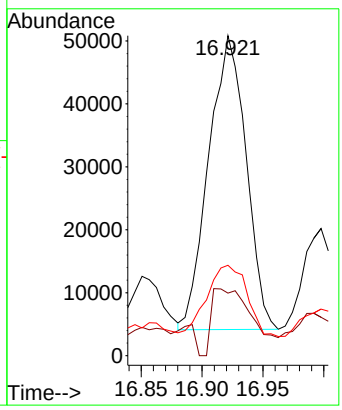




#91
Dibenzo(a,h)anthracene
Concen: 8.108 ng
RT: 16.921 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF134566.D
Acq: 02 Aug 2023 00:41

Tgt Ion:278 Resp: 9980

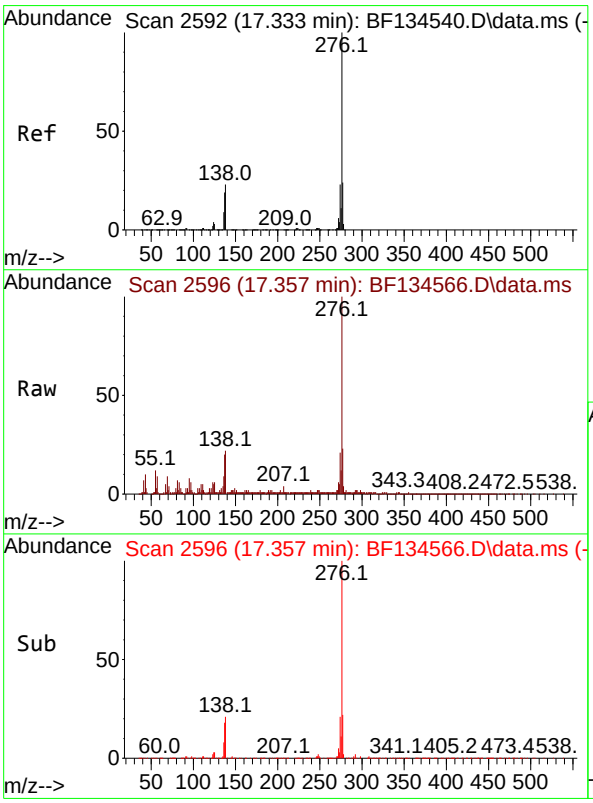
Ion	Ratio	Lower	Upper
278	100		
139	19.6	10.0	15.0#
279	28.2	19.7	29.5



Instrument :
BNA_F
ClientSampleId :
SB-10-(0.5-2.0)

Manual Integrations
APPROVED

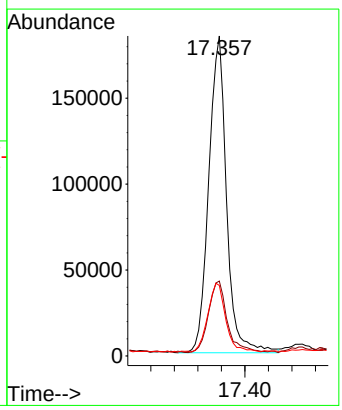
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023



#92
Benzo(g,h,i)perylene
Concen: 30.862 ng
RT: 17.357 min Scan# 2596
Delta R.T. 0.024 min
Lab File: BF134566.D
Acq: 02 Aug 2023 00:41

Tgt Ion:276 Resp: 387543

Ion	Ratio	Lower	Upper
276	100		
277	23.4	19.0	28.6
138	22.1	12.2	18.2#



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080123\
Data File : BF134566.D
Acq On : 02 Aug 2023 00:41
Operator : CG\JU
Sample : 03645-06
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-10-(0.5-2.0)

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF134566.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.393	558	562	563	rBV	461630	393011	7.73%	0.391%
2	5.422	563	567	570	rVB	4538445	4474888	88.06%	4.455%
3	6.428	731	738	741	rVV	4124570	4548429	89.51%	4.528%
4	6.634	768	773	776	rBV2	131050	171484	3.37%	0.171%
5	6.793	797	800	803	rBV	1484668	1169756	23.02%	1.165%
6	7.069	841	847	850	rVB4	73798	110408	2.17%	0.110%
7	7.110	850	854	857	rBV3	113145	121673	2.39%	0.121%
8	7.357	885	896	899	rBV	2994619	3047687	59.98%	3.034%
9	7.393	899	902	905	rVV	361617	268699	5.29%	0.267%
10	7.440	905	910	913	rVB4	93487	118530	2.33%	0.118%
11	8.069	1012	1017	1019	rVV2	1832213	1978510	38.93%	1.970%
12	8.092	1019	1021	1024	rVV	661983	514935	10.13%	0.513%
13	8.140	1027	1029	1031	rVV	284205	188685	3.71%	0.188%
14	8.369	1060	1068	1071	rBV5	182488	317234	6.24%	0.316%
15	8.422	1075	1077	1080	rVV3	121864	111939	2.20%	0.111%
16	8.457	1080	1083	1086	rVB2	159940	157234	3.09%	0.157%
17	8.498	1086	1090	1092	rBV	336484	309534	6.09%	0.308%
18	8.616	1106	1110	1111	rBV2	116420	109641	2.16%	0.109%
19	8.639	1111	1114	1116	rVB	328119	275852	5.43%	0.275%
20	8.669	1116	1119	1123	rBV	796680	618970	12.18%	0.616%
21	8.787	1136	1139	1141	rVB	428801	387260	7.62%	0.386%
22	8.881	1152	1155	1159	rVB	362860	307223	6.05%	0.306%
23	8.951	1165	1167	1169	rBV2	123236	109428	2.15%	0.109%
24	9.098	1190	1192	1196	rVB	274516	234236	4.61%	0.233%
25	9.151	1196	1201	1204	rVB	5031507	4350891	85.62%	4.331%
26	9.234	1212	1215	1220	rBV2	829789	811388	15.97%	0.808%
27	9.345	1231	1234	1238	rVB2	102949	129700	2.55%	0.129%
28	9.404	1241	1244	1248	rBV2	153989	236762	4.66%	0.236%
29	9.486	1255	1258	1260	rBV2	245926	239252	4.71%	0.238%
30	9.510	1260	1262	1265	rVB	285997	203233	4.00%	0.202%
31	9.557	1265	1270	1272	rBV2	330748	468211	9.21%	0.466%
32	9.686	1289	1292	1298	rVB	256344	238649	4.70%	0.238%
33	9.769	1303	1306	1310	rVB	650906	533603	10.50%	0.531%
34	9.828	1310	1316	1319	rBV	1504157	1461545	28.76%	1.455%
35	9.857	1319	1321	1325	rVB	611909	469858	9.25%	0.468%
36	10.028	1347	1350	1353	rBV	564254	493585	9.71%	0.491%

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080123\
Data File : BF134566.D
Acq On : 02 Aug 2023 00:41
Operator : CG\JU
Sample : 03645-06
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-10-(0.5-2.0)

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

37	10.122	1363	1366	1369	rVV	553046	568481	11.19%	0.566%
38	10.269	1388	1391	1393	rVB	521628	387018	7.62%	0.385%
39	10.375	1405	1409	1412	rBV2	499481	482383	9.49%	0.480%
40	10.486	1425	1428	1433	rVV2	247261	290001	5.71%	0.289%
41	10.533	1433	1436	1441	rVB	182729	199458	3.93%	0.199%
42	10.616	1445	1450	1453	rBV	2547517	2490689	49.01%	2.480%
43	10.739	1468	1471	1481	rVB2	656271	940375	18.51%	0.936%
44	10.922	1499	1502	1505	rBV3	156576	167329	3.29%	0.167%
45	10.986	1511	1513	1518	rVB2	202280	218529	4.30%	0.218%
46	11.075	1525	1528	1532	rVB3	100729	110998	2.18%	0.111%
47	11.116	1532	1535	1540	rVB	390143	317839	6.25%	0.316%
48	11.163	1540	1543	1546	rBV2	142609	199231	3.92%	0.198%
49	11.192	1546	1548	1552	rBV2	665395	730273	14.37%	0.727%
50	11.316	1565	1569	1571	rBV	1296543	1338852	26.35%	1.333%
51	11.339	1571	1573	1576	rVV	4376875	4098695	80.66%	4.080%
52	11.386	1576	1581	1584	rVV	1277022	1298602	25.56%	1.293%
53	11.422	1584	1587	1592	rVV	190901	215625	4.24%	0.215%
54	11.545	1605	1608	1610	rVB	640102	536232	10.55%	0.534%
55	11.575	1610	1613	1618	rBV4	135013	164113	3.23%	0.163%
56	11.622	1618	1621	1623	rBV	1032745	840950	16.55%	0.837%
57	11.786	1647	1649	1651	rBV2	107075	118080	2.32%	0.118%
58	11.816	1651	1654	1656	rVV	627256	549116	10.81%	0.547%
59	11.845	1656	1659	1660	rVV	921258	813077	16.00%	0.809%
60	11.869	1660	1663	1665	rVV	2901345	3118677	61.37%	3.105%
61	11.886	1665	1666	1669	rVV	617179	512363	10.08%	0.510%
62	11.928	1670	1673	1675	rVV	969762	974313	19.17%	0.970%
63	11.951	1675	1677	1679	rVB	472185	348642	6.86%	0.347%
64	12.033	1688	1691	1696	rVB	1226766	1016932	20.01%	1.012%
65	12.116	1701	1705	1707	rVV2	545537	729561	14.36%	0.726%
66	12.133	1707	1708	1712	rVB3	594550	413974	8.15%	0.412%
67	12.269	1728	1731	1734	rBV3	339983	394122	7.76%	0.392%
68	12.316	1737	1739	1742	rVB2	302690	260932	5.13%	0.260%
69	12.375	1746	1749	1752	rVV2	401306	400587	7.88%	0.399%
70	12.422	1754	1757	1761	rVV2	1508316	1585169	31.19%	1.578%
71	12.457	1761	1763	1767	rVB3	266616	305359	6.01%	0.304%
72	12.545	1773	1778	1780	rBV	4996479	5081592	100.00%	5.059%
73	12.580	1780	1784	1789	rVB5	481005	754401	14.85%	0.751%
74	12.651	1793	1796	1800	rBV2	1454696	1484205	29.21%	1.478%
75	12.769	1810	1816	1818	rBV2	3960767	4894599	96.32%	4.873%
76	12.798	1818	1821	1824	rVB2	1633947	1335843	26.29%	1.330%

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080123\
Data File : BF134566.D
Acq On : 02 Aug 2023 00:41
Operator : CG\JU
Sample : 03645-06
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-10-(0.5-2.0)

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

77	12.880	1832	1835	1837	rBV	570783	505524	9.95%	0.503%
78	12.910	1837	1840	1847	rVV	3724336	3978127	78.29%	3.960%
79	13.045	1861	1863	1868	rBV4	618520	762616	15.01%	0.759%
80	13.092	1868	1871	1875	rVB	843163	801985	15.78%	0.798%
81	13.157	1879	1882	1885	rVB	2270110	1940805	38.19%	1.932%
82	13.192	1885	1888	1891	rBV2	676459	769369	15.14%	0.766%
83	13.504	1937	1941	1946	rVB	1649397	1724696	33.94%	1.717%
84	13.739	1979	1981	1983	rBV2	462221	394091	7.76%	0.392%
85	13.769	1983	1986	1990	rVV3	696593	872558	17.17%	0.869%
86	13.804	1990	1992	1994	rVV	516717	572351	11.26%	0.570%
87	13.833	1994	1997	2002	rVB	1687035	1670450	32.87%	1.663%
88	13.957	2015	2018	2022	rBV2	2045857	2686037	52.86%	2.674%
89	13.992	2022	2024	2027	rVB	2114998	1617469	31.83%	1.610%
90	14.069	2035	2037	2039	rVB	385819	271984	5.35%	0.271%
91	14.151	2048	2051	2054	rVB2	1475515	1295221	25.49%	1.289%
92	14.457	2100	2103	2108	rBV	1180641	1111924	21.88%	1.107%
93	14.768	2153	2156	2162	rVB	930472	1038625	20.44%	1.034%
94	15.004	2192	2196	2199	rBV	1379297	2140388	42.12%	2.131%
95	15.110	2211	2214	2219	rVB	902655	1005525	19.79%	1.001%
96	15.310	2244	2248	2253	rVB	907623	1218299	23.97%	1.213%
97	15.368	2254	2258	2262	rBV	1204117	1380469	27.17%	1.374%
98	15.427	2266	2268	2271	rVB	380992	410251	8.07%	0.408%
99	16.910	2515	2520	2529	rVB2	560934	1139018	22.41%	1.134%
100	17.357	2592	2596	2606	rVB	413541	772259	15.20%	0.769%

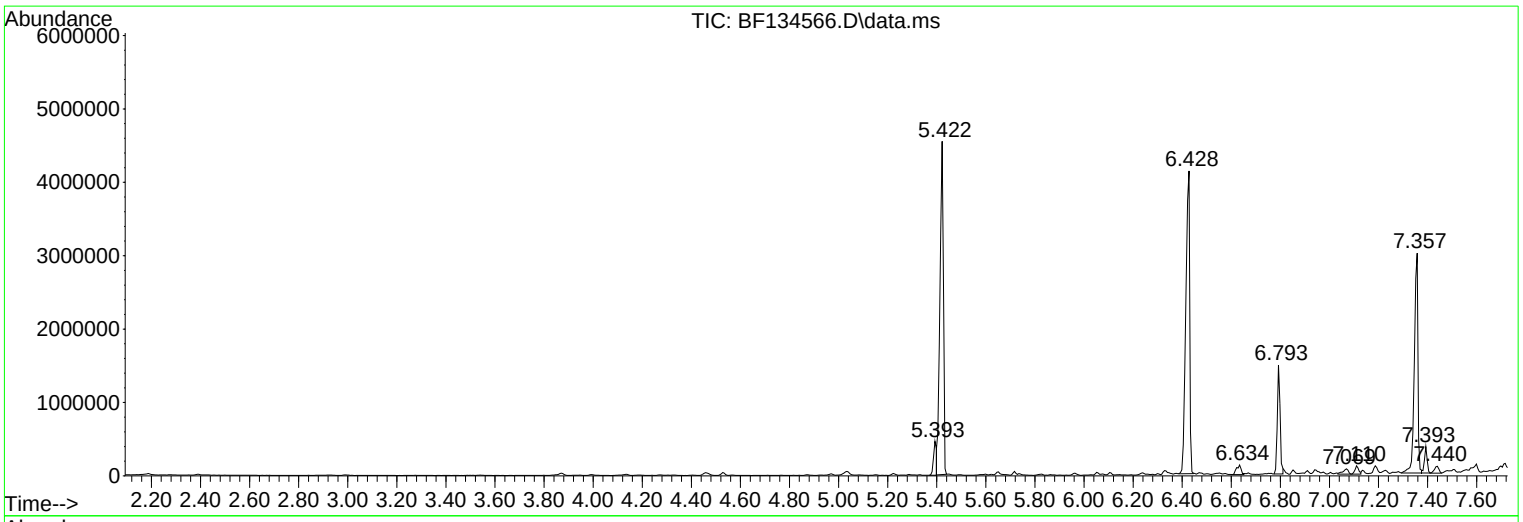
Sum of corrected areas: 100449181

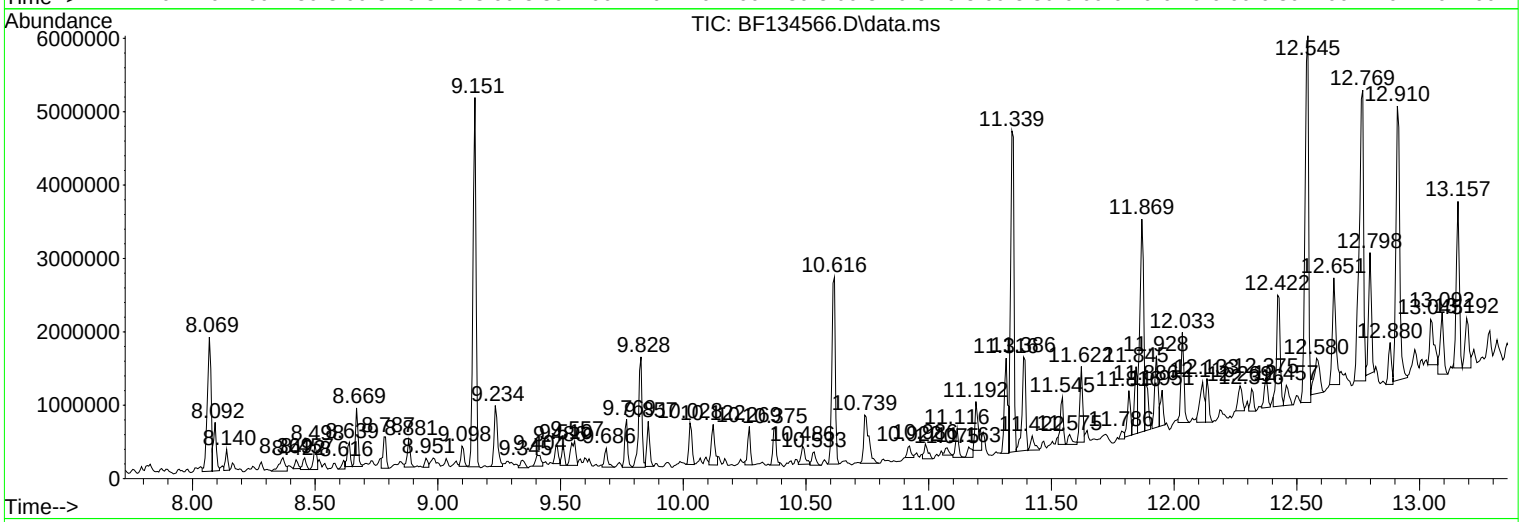
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080123\
Data File : BF134566.D
Acq On : 02 Aug 2023 00:41
Operator : CG\JU
Sample : 03645-06
Misc :
ALS Vial : 21 Sample Multiplier: 1

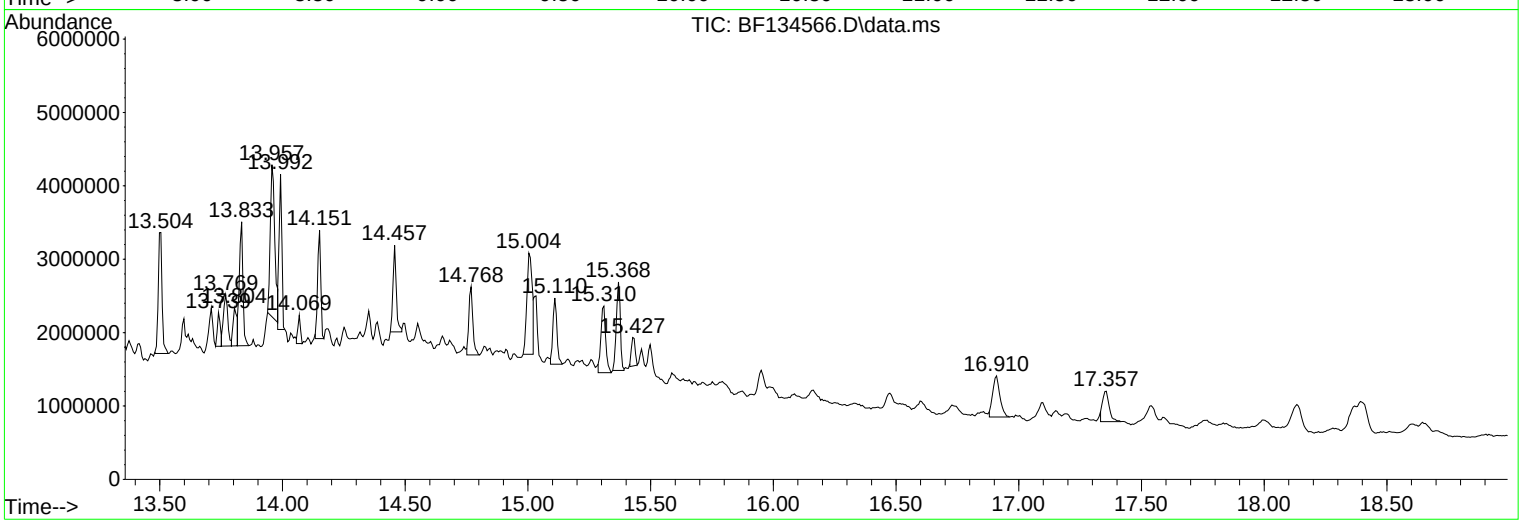
Instrument :
BNA_F
ClientSampleId :
SB-10-(0.5-2.0)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080123\
Data File : BF134566.D
Acq On : 02 Aug 2023 00:41
Operator : CG\JU
Sample : 03645-06
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-10-(0.5-2.0)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

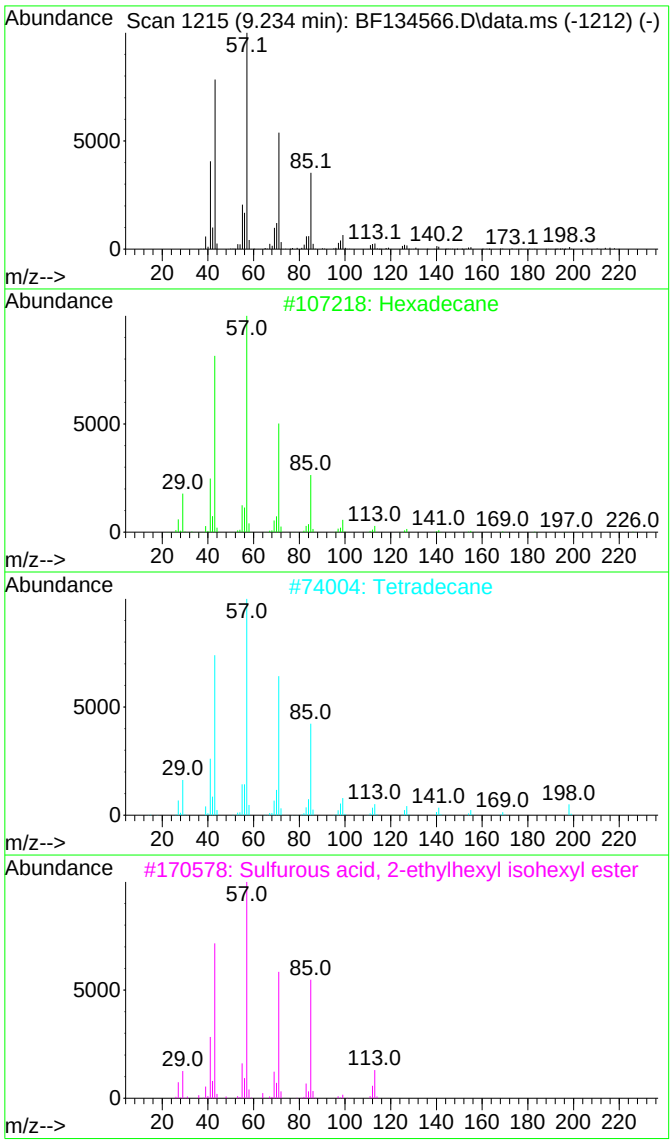
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

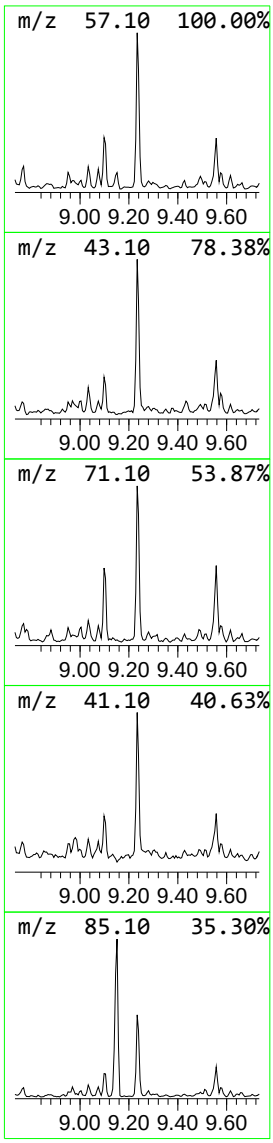
****

Peak Number 1 Hexadecane Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.234	11.10 ng	811388	Acenaphthene-d10	9.828

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexadecane	226	C16H34	000544-76-3	91
2	Tetradecane	198	C14H30	000629-59-4	90
3	Sulfurous acid, 2-ethylhexyl iso...	278	C14H30O3S	1000309-19-0	86
4	Tridecane, 1-iodo-	310	C13H27I	035599-77-0	80
5	Nonadecane	268	C19H40	000629-92-5	78





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080123\
Data File : BF134566.D
Acq On : 02 Aug 2023 00:41
Operator : CG\JU
Sample : 03645-06
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-10-(0.5-2.0)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

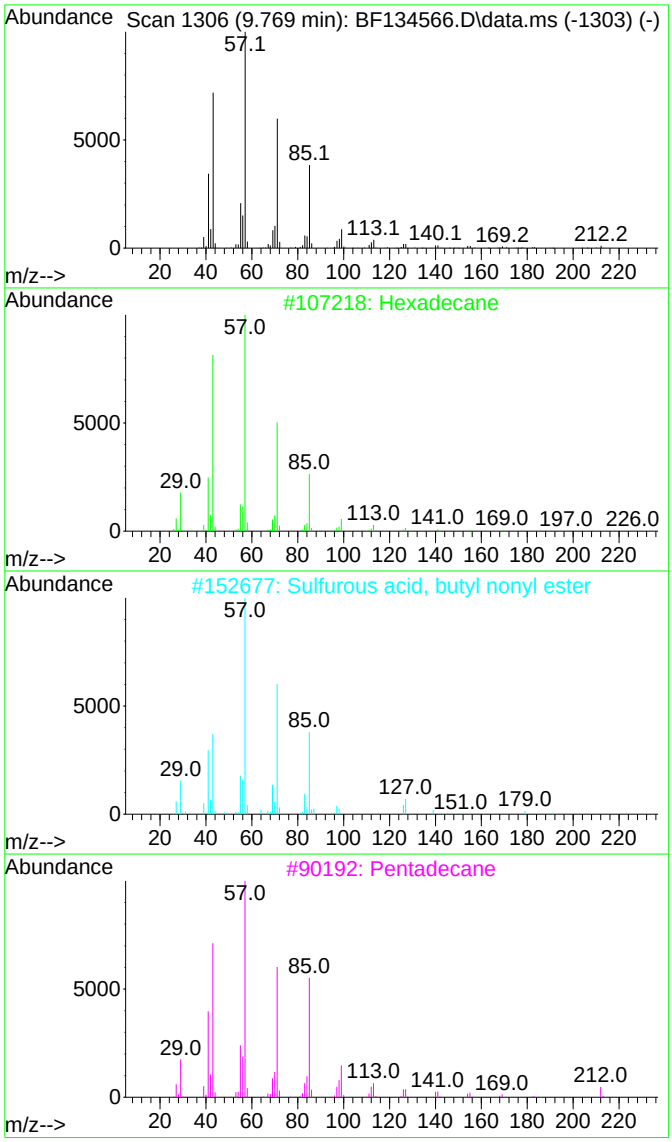
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

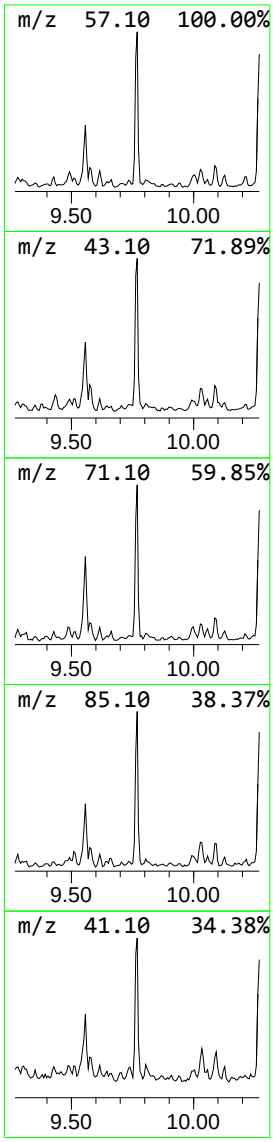
****

Peak Number 2 Sulfurous acid, butyl nonyl... Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.769	7.30 ng	533603	Acenaphthene-d10	9.828

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexadecane	226	C16H34	000544-76-3	90
2	Sulfurous acid, butyl nonyl ester	264	C13H28O3S	1000309-17-6	78
3	Pentadecane	212	C15H32	000629-62-9	64
4	Bacchotricuneatin c	342	C20H22O5	066563-30-2	64
5	Octane, 2,4,6-trimethyl-	156	C11H24	062016-37-9	59





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080123\
Data File : BF134566.D
Acq On : 02 Aug 2023 00:41
Operator : CG\JU
Sample : 03645-06
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-10-(0.5-2.0)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

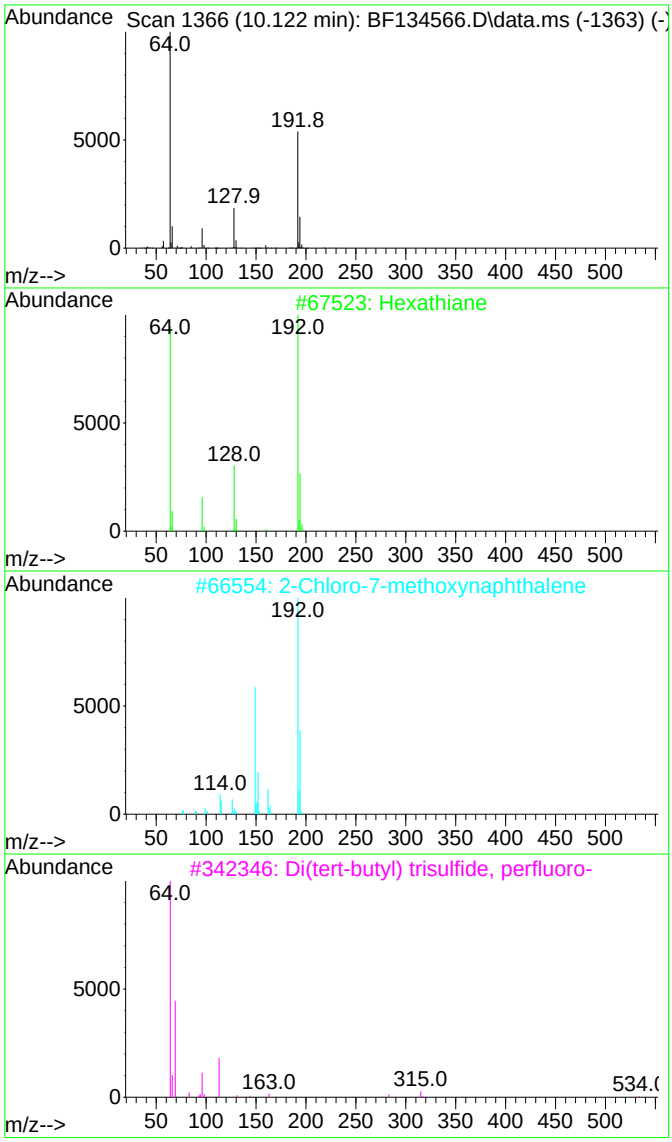
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

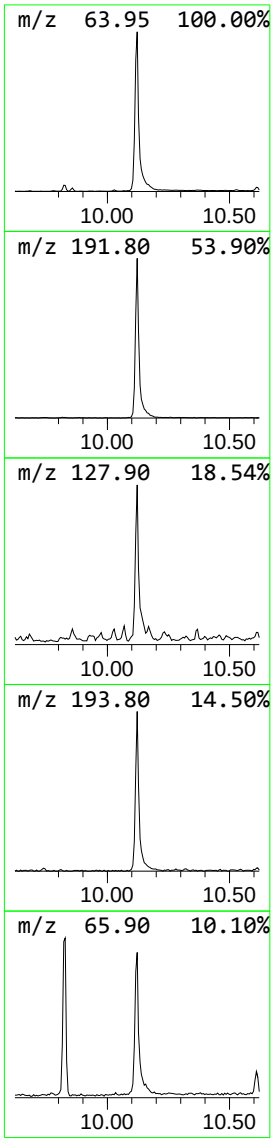
****

Peak Number 3 Hexathiane Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.122	7.78 ng	568481	Acenaphthene-d10	9.828

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexathiane	192	S6	013798-23-7	94
2	2-Chloro-7-methoxynaphthalene	192	C11H9ClO	067061-67-0	9
3	Di(tert-butyl) trisulfide, perfl...	534	C8F18S3	016005-64-4	9
4	1,2-Phenylene diisothiocyanate	192	C8H4N2S2	071105-17-4	5
5	Sulfur dioxide	64	O2S	007446-09-5	4





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080123\
Data File : BF134566.D
Acq On : 02 Aug 2023 00:41
Operator : CG\JU
Sample : 03645-06
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-10-(0.5-2.0)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

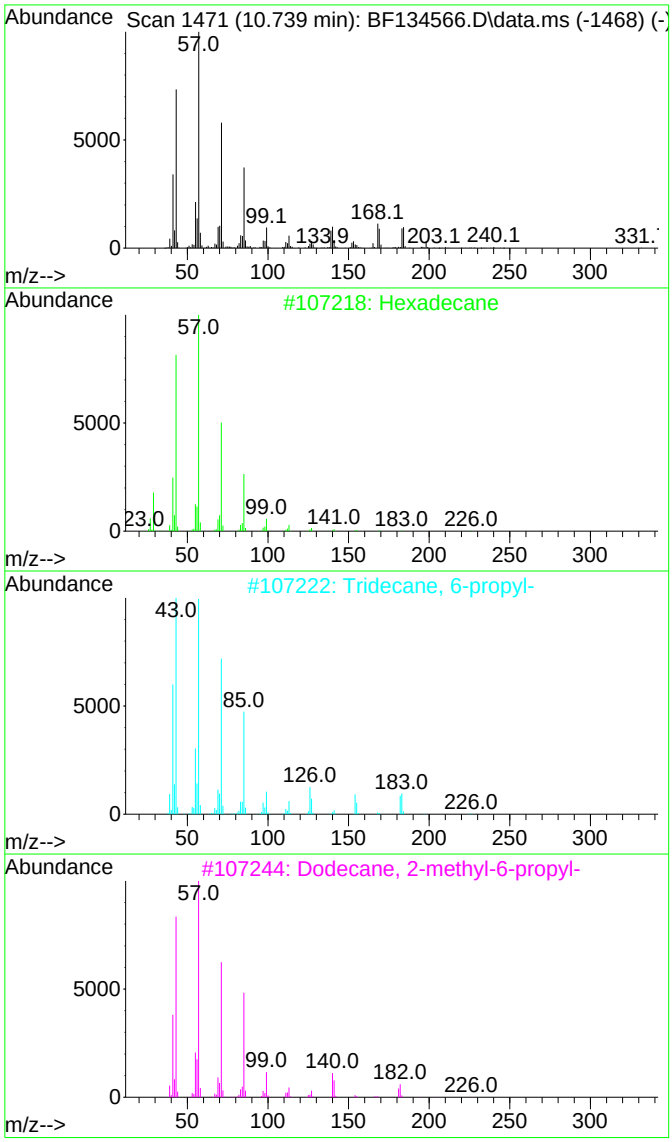
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

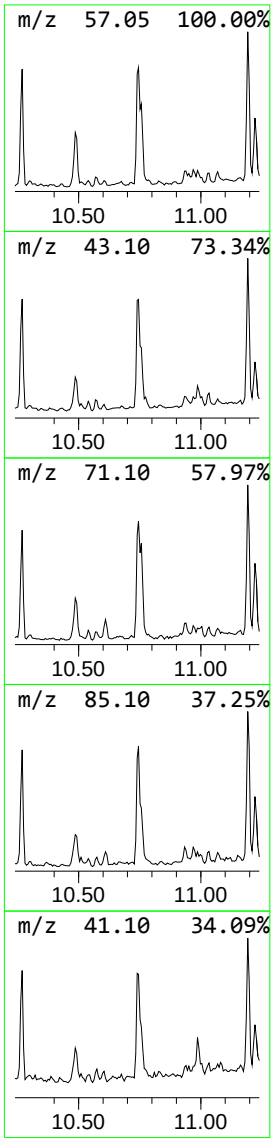
****

Peak Number 4 Tridecane, 6-propyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.739	14.05 ng	940375	Phenanthrene-d10	11.316

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexadecane	226	C16H34	000544-76-3	91
2	Tridecane, 6-propyl-	226	C16H34	055045-10-8	89
3	Dodecane, 2-methyl-6-propyl-	226	C16H34	055045-08-4	64
4	Tridecane, 1-iodo-	310	C13H27I	035599-77-0	64
5	Tetradecane	198	C14H30	000629-59-4	60





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080123\
Data File : BF134566.D
Acq On : 02 Aug 2023 00:41
Operator : CG\JU
Sample : 03645-06
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-10-(0.5-2.0)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

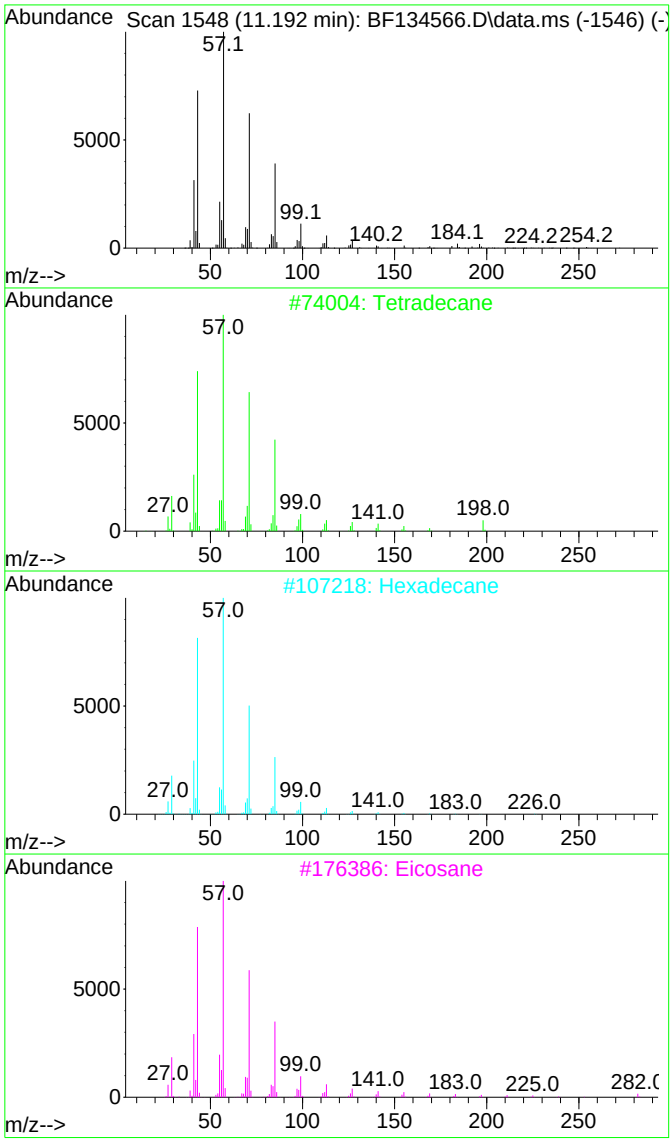
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

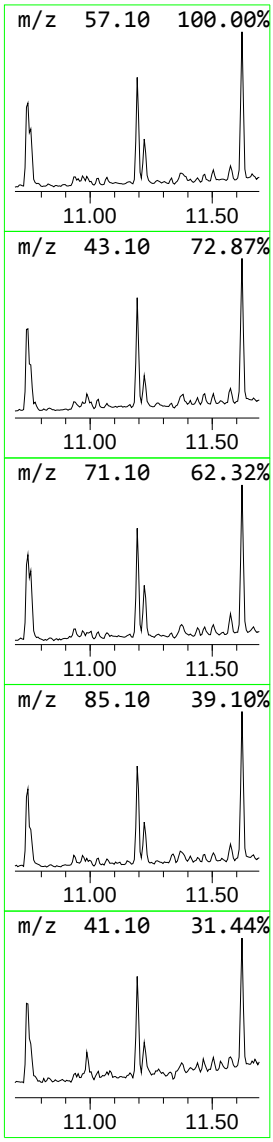
****

Peak Number 5 Tetradecane Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.192	10.91 ng	730273	Phenanthrene-d10	11.316

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tetradecane	198	C14H30	000629-59-4	91
2	Hexadecane	226	C16H34	000544-76-3	90
3	Eicosane	282	C20H42	000112-95-8	90
4	Heptadecane	240	C17H36	000629-78-7	90
5	Dodecane, 2-methyl-6-propyl-	226	C16H34	055045-08-4	86





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080123\
Data File : BF134566.D
Acq On : 02 Aug 2023 00:41
Operator : CG\JU
Sample : 03645-06
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-10-(0.5-2.0)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

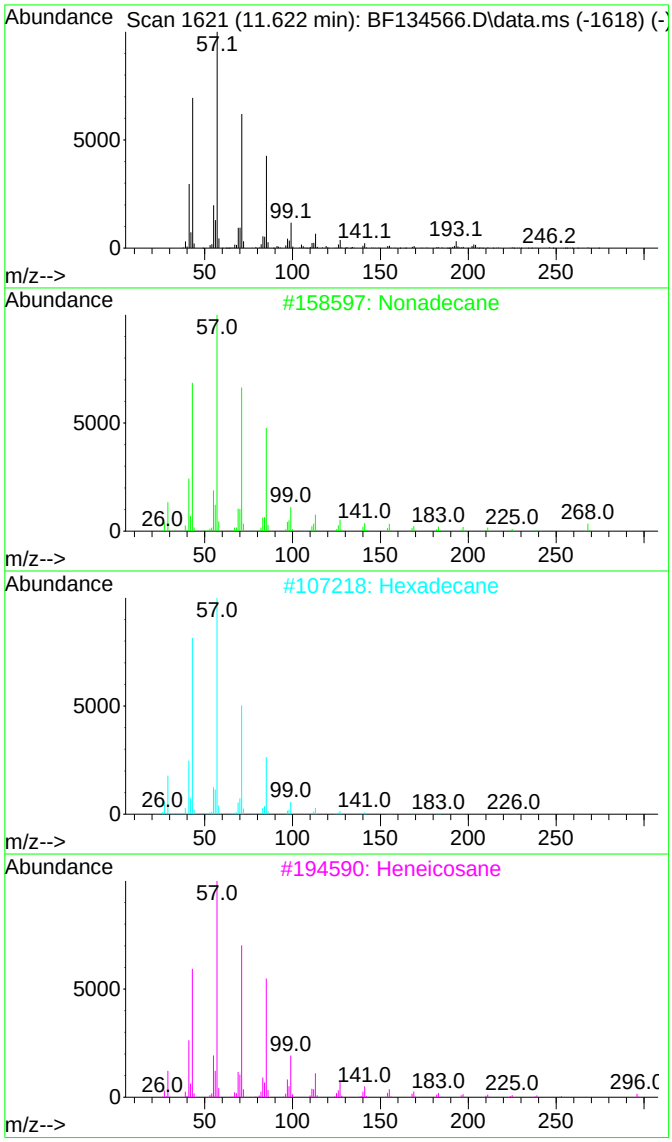
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

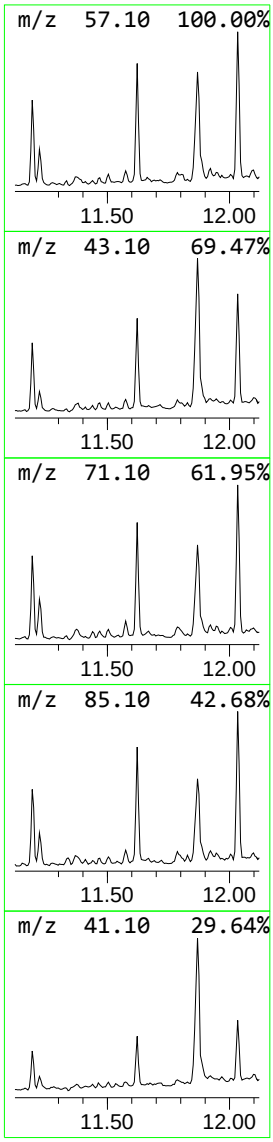
****

Peak Number 6 Nonadecane Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.622	12.56 ng	840950	Phenanthrene-d10	11.316

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Nonadecane	268	C19H40	000629-92-5	97
2	Hexadecane	226	C16H34	000544-76-3	90
3	Heneicosane	296	C21H44	000629-94-7	90
4	Octacosane	394	C28H58	000630-02-4	90
5	Tetradecane, 1-iodo-	324	C14H29I	019218-94-1	86





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080123\
Data File : BF134566.D
Acq On : 02 Aug 2023 00:41
Operator : CG\JU
Sample : 03645-06
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-10-(0.5-2.0)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

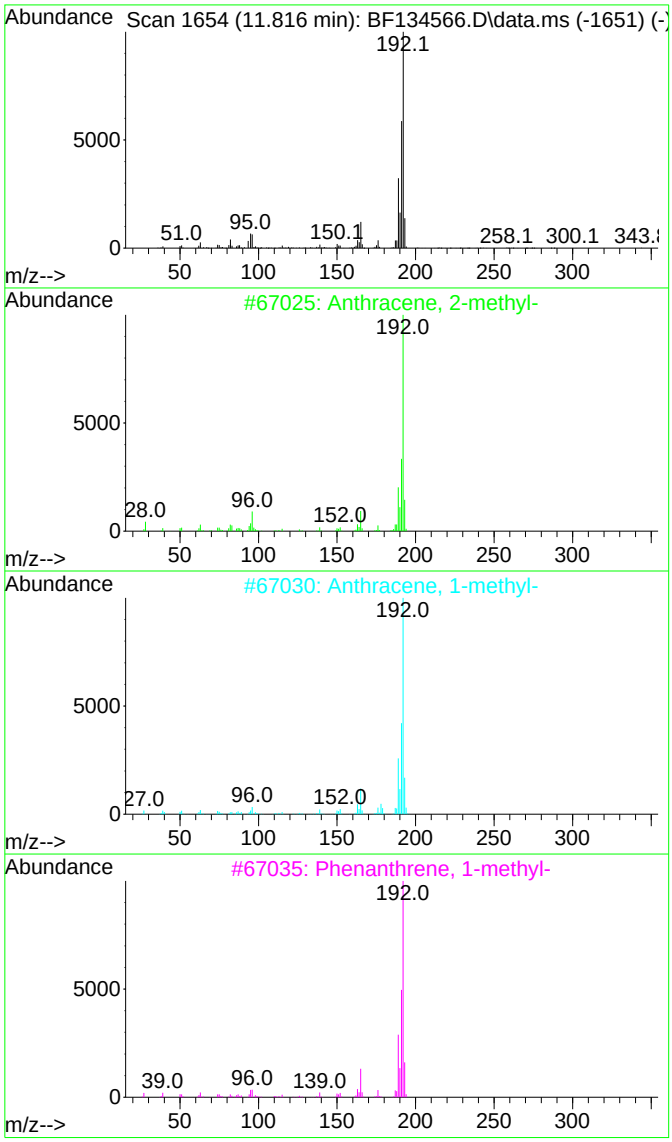
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

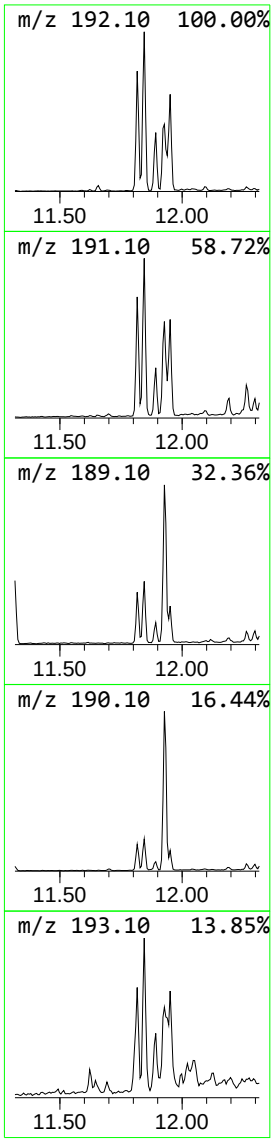
****

Peak Number 7 Anthracene, 2-methyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.816	8.20 ng	549116	Phenanthrene-d10	11.316

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-methyl-	192	C15H12	000613-12-7	94
2	Anthracene, 1-methyl-	192	C15H12	000610-48-0	93
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	93
4	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93
5	Anthracene, 9-methyl-	192	C15H12	000779-02-2	90





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080123\
Data File : BF134566.D
Acq On : 02 Aug 2023 00:41
Operator : CG\JU
Sample : 03645-06
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-10-(0.5-2.0)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

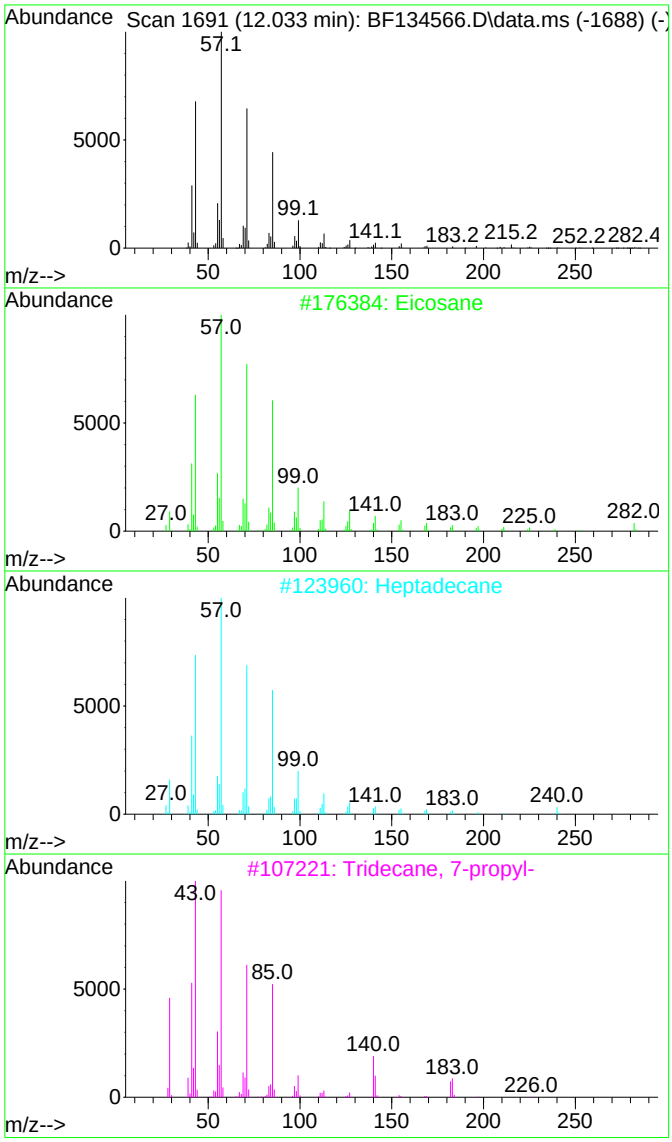
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

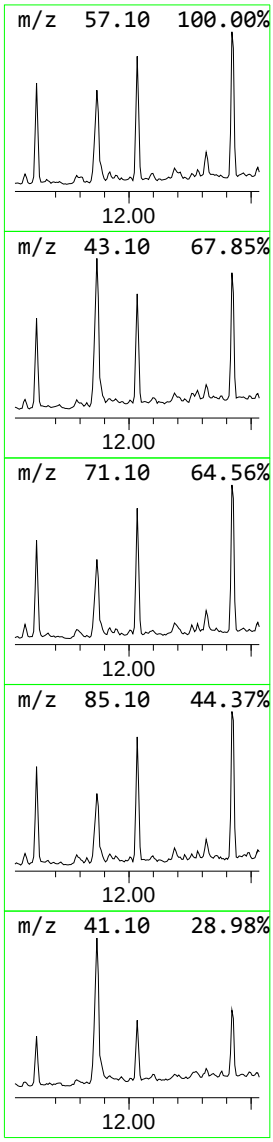
****

Peak Number 8 Eicosane Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.033	15.19 ng	1016930	Phenanthrene-d10	11.316

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Eicosane	282	C20H42	000112-95-8	96
2	Heptadecane	240	C17H36	000629-78-7	94
3	Tridecane, 7-propyl-	226	C16H34	055045-09-5	91
4	Heptacosane	380	C27H56	000593-49-7	91
5	Pentadecane	212	C15H32	000629-62-9	91





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080123\
Data File : BF134566.D
Acq On : 02 Aug 2023 00:41
Operator : CG\JU
Sample : 03645-06
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-10-(0.5-2.0)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

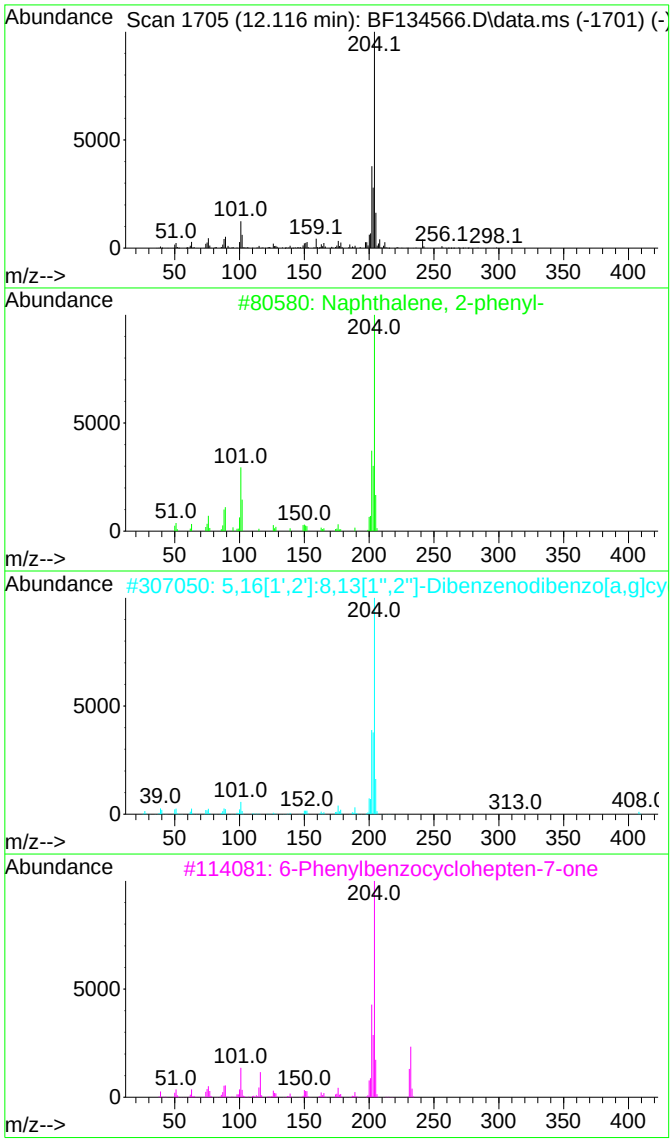
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

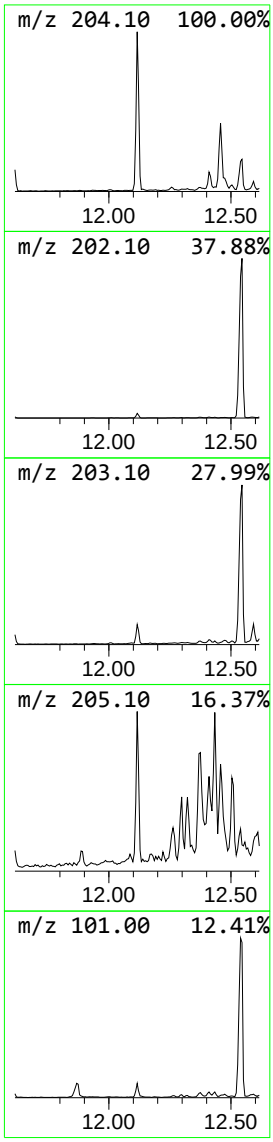
****

Peak Number 9 Naphthalene, 2-phenyl- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.116	10.90 ng	729561	Phenanthrene-d10	11.316

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	94
2	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	87
3	6-Phenylbenzocyclohepten-7-one	232	C17H12O	093327-56-1	86
4	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	64
5	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	60





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080123\
Data File : BF134566.D
Acq On : 02 Aug 2023 00:41
Operator : CG\JU
Sample : 03645-06
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-10-(0.5-2.0)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

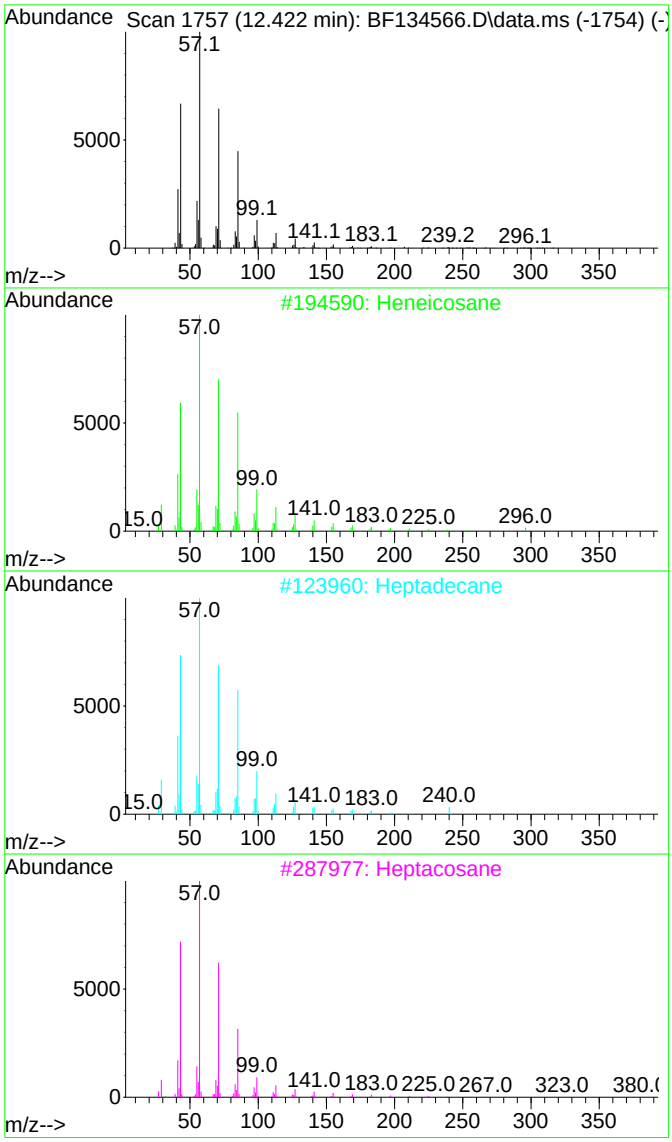
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

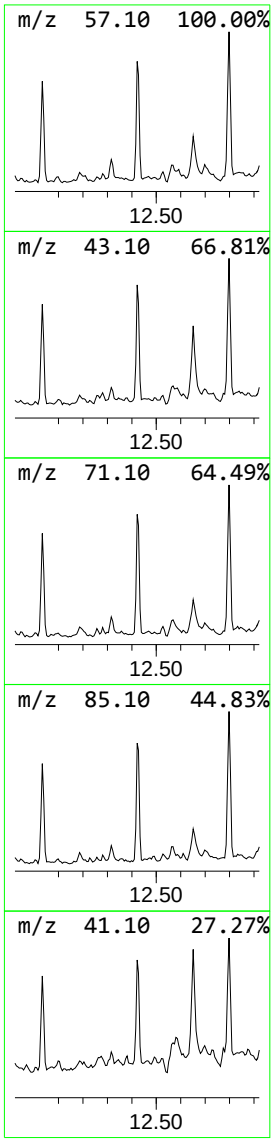
****

Peak Number 10 Heneicosane Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.422	23.68 ng	1585170	Phenanthrene-d10	11.316

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heneicosane	296	C21H44	000629-94-7	96
2	Heptadecane	240	C17H36	000629-78-7	94
3	Heptacosane	380	C27H56	000593-49-7	91
4	Tetracosane	338	C24H50	000646-31-1	91
5	Dodecane, 1-iodo-	296	C12H25I	004292-19-7	90





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080123\
Data File : BF134566.D
Acq On : 02 Aug 2023 00:41
Operator : CG\JU
Sample : 03645-06
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-10-(0.5-2.0)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

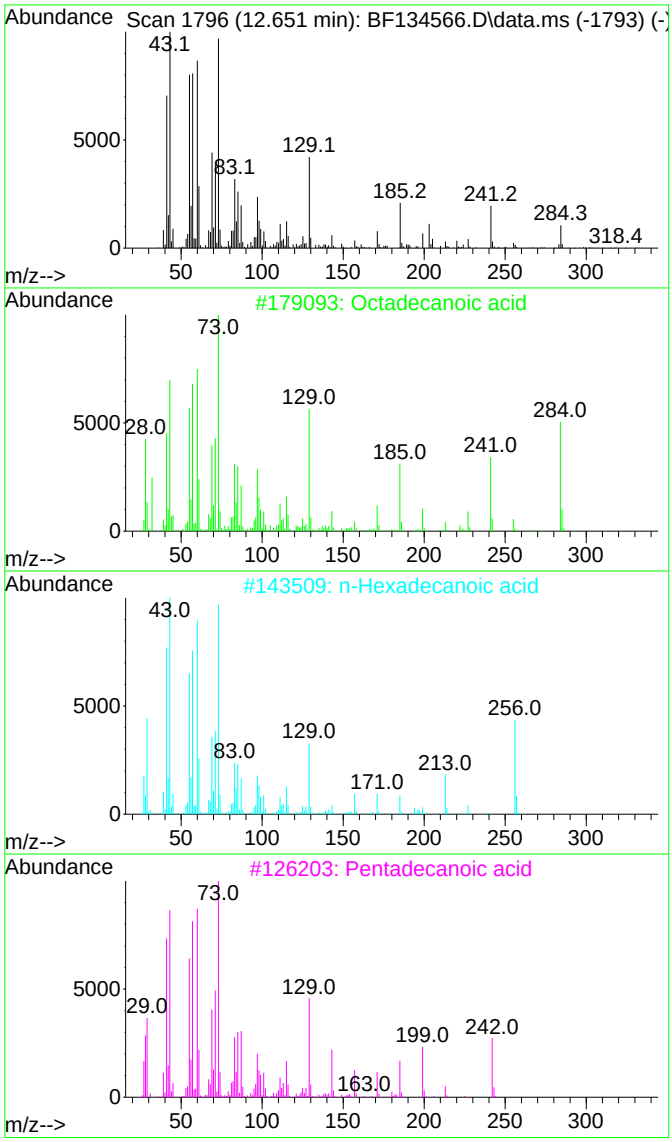
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

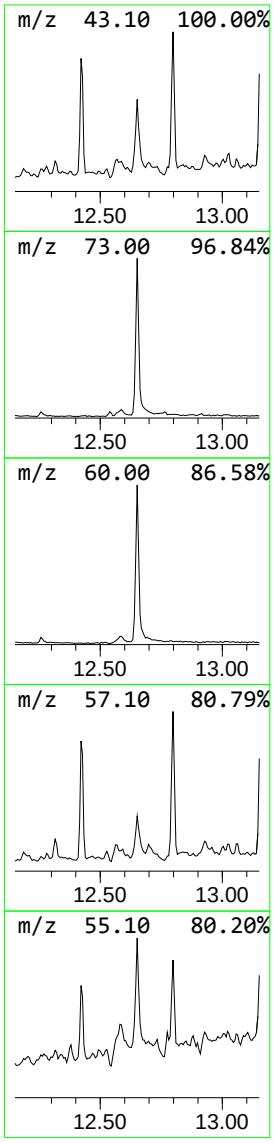
****

Peak Number 11 Octadecanoic acid Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.651	11.05 ng	1484210	Chrysene-d12	13.969

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecanoic acid	284	C18H36O2	000057-11-4	98
2	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	93
3	Pentadecanoic acid	242	C15H30O2	001002-84-2	89
4	Tridecanoic acid	214	C13H26O2	000638-53-9	76
5	Tetradecanoic acid	228	C14H28O2	000544-63-8	74





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080123\
Data File : BF134566.D
Acq On : 02 Aug 2023 00:41
Operator : CG\JU
Sample : 03645-06
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-10-(0.5-2.0)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

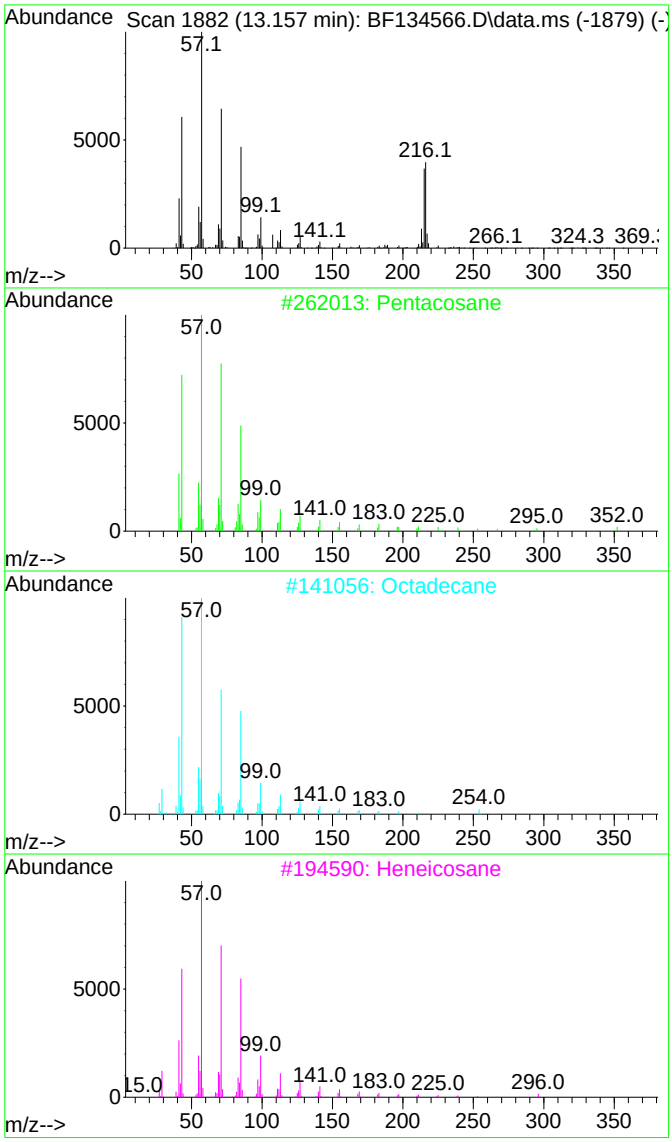
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

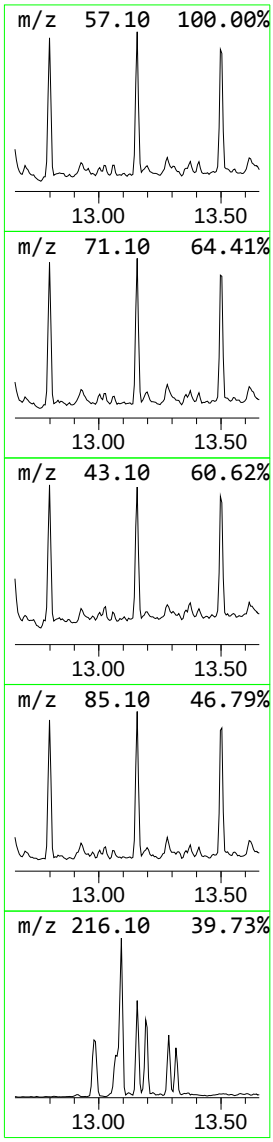
****

Peak Number 12 Pentacosane Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.157	14.45 ng	1940810	Chrysene-d12	13.969

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentacosane	352	C25H52	000629-99-2	53
2	Octadecane	254	C18H38	000593-45-3	49
3	Heneicosane	296	C21H44	000629-94-7	49
4	Tetradecane, 1-iodo-	324	C14H29I	019218-94-1	49
5	Octadecane, 1-iodo-	380	C18H37I	000629-93-6	49





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080123\
Data File : BF134566.D
Acq On : 02 Aug 2023 00:41
Operator : CG\JU
Sample : 03645-06
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-10-(0.5-2.0)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

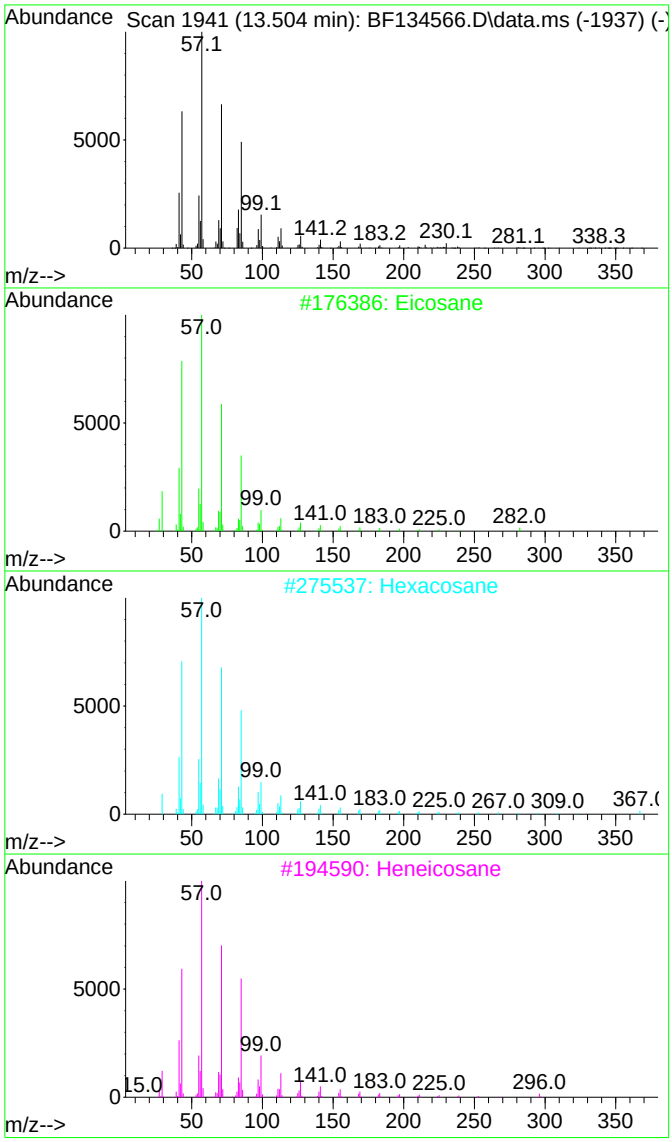
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

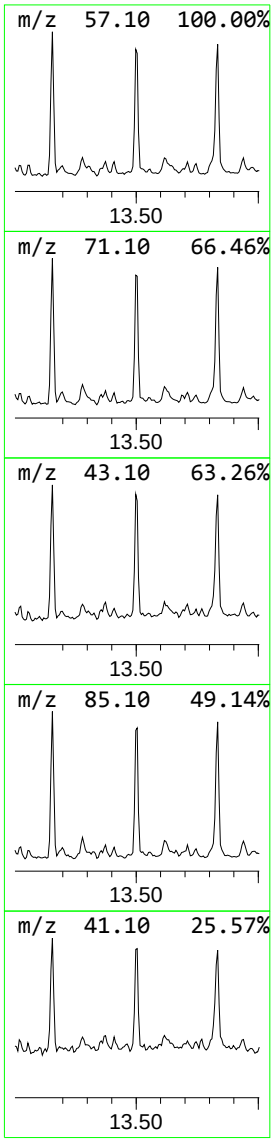
****

Peak Number 13 Hexacosane Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.504	12.84 ng	1724700	Chrysene-d12	13.969

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Eicosane	282	C20H42	000112-95-8	93
2	Hexacosane	366	C26H54	000630-01-3	91
3	Heneicosane	296	C21H44	000629-94-7	91
4	Octacosane	394	C28H58	000630-02-4	90
5	Octadecane	254	C18H38	000593-45-3	87





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080123\
Data File : BF134566.D
Acq On : 02 Aug 2023 00:41
Operator : CG\JU
Sample : 03645-06
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-10-(0.5-2.0)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

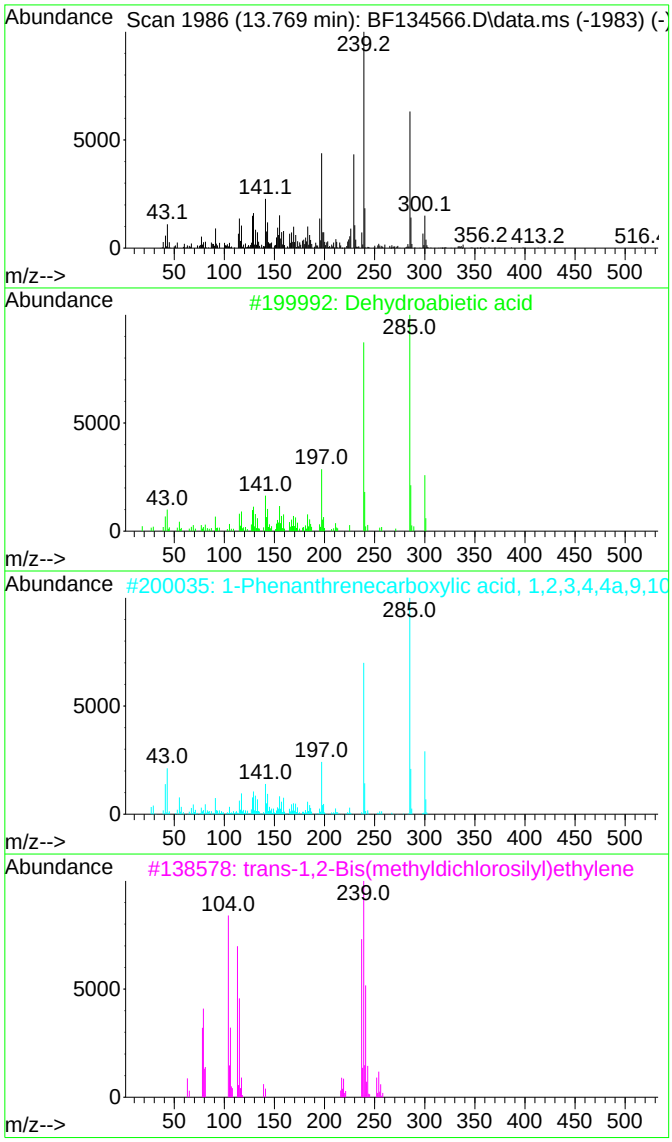
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

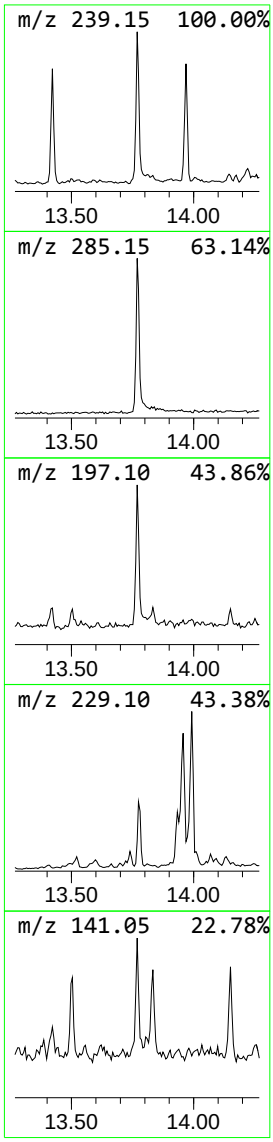
****

Peak Number 14 Dehydroabietic acid Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.769	6.50 ng	872558	Chrysene-d12	13.969

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dehydroabietic acid	300	C20H28O2	001740-19-8	99
2	1-Phenanthrenecarboxylic acid, 1...	300	C20H28O2	005155-70-4	74
3	trans-1,2-Bis(methyldichlorosily...	252	C4H8Cl4Si2	065899-10-7	60
4	Butanoic acid, 2-(cyano)(2,4,6-t...	300	C17H20N2O3	1000267-71-7	60
5	Bisphenol A, TMS derivative	300	C18H24O2Si	133220-73-2	25





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080123\
Data File : BF134566.D
Acq On : 02 Aug 2023 00:41
Operator : CG\JU
Sample : 03645-06
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-10-(0.5-2.0)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

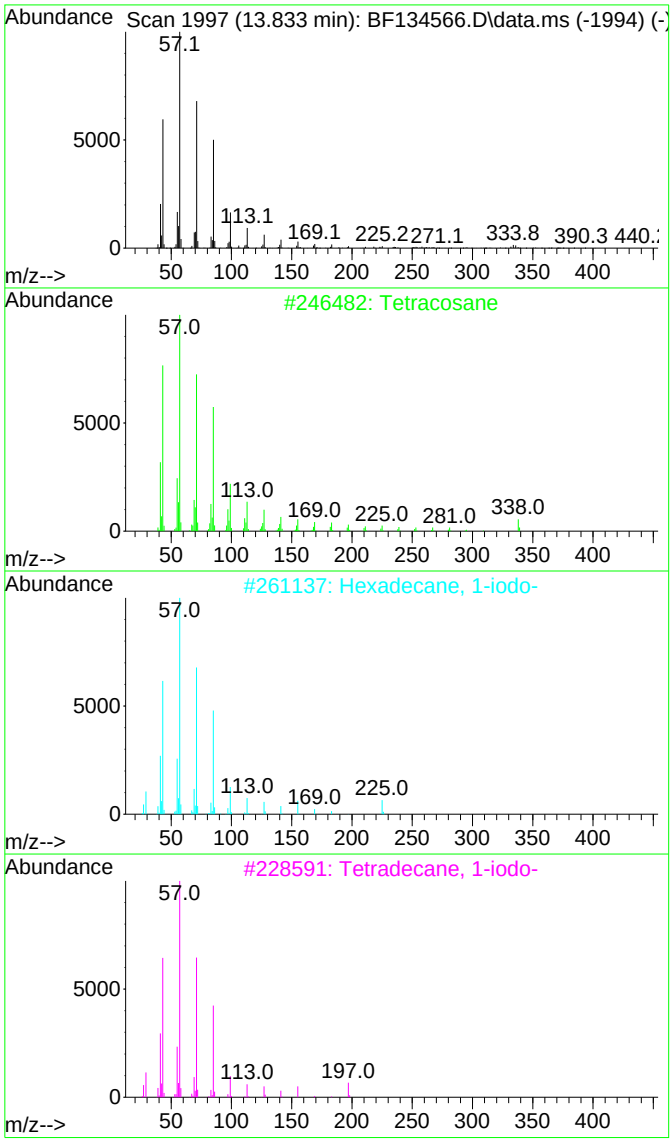
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

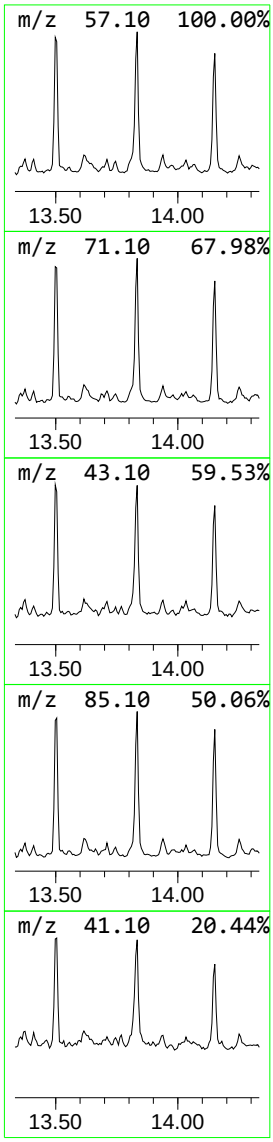
****

Peak Number 15 Tetracosane Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.833	12.44 ng	1670450	Chrysene-d12	13.969

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tetracosane	338	C24H50	000646-31-1	93
2	Hexadecane, 1-iodo-	352	C16H33I	000544-77-4	90
3	Tetradecane, 1-iodo-	324	C14H29I	019218-94-1	86
4	Heptadecane	240	C17H36	000629-78-7	78
5	Heptacosane	380	C27H56	000593-49-7	72





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080123\
Data File : BF134566.D
Acq On : 02 Aug 2023 00:41
Operator : CG\JU
Sample : 03645-06
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-10-(0.5-2.0)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

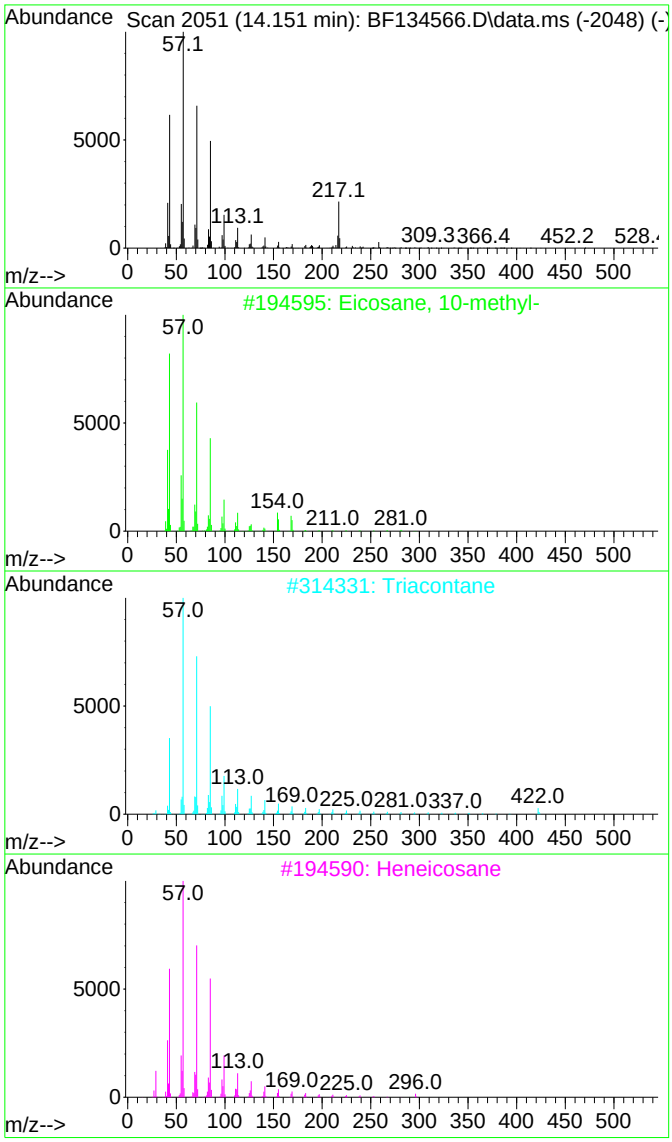
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

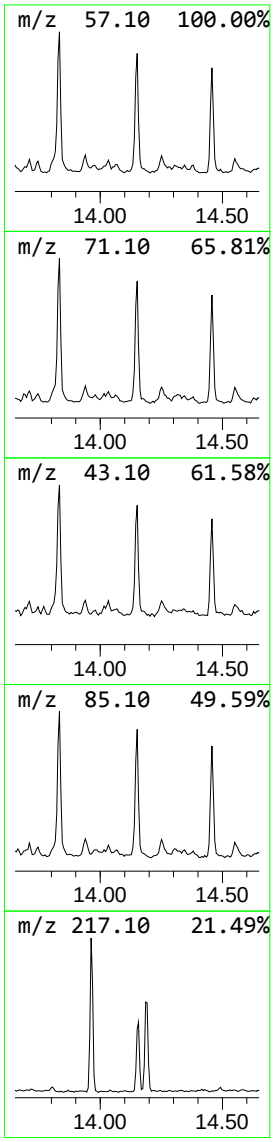
****

Peak Number 16 Eicosane, 10-methyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.151	9.64 ng	1295220	Chrysene-d12	13.969

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Eicosane, 10-methyl-	296	C21H44	054833-23-7	89
2	Triacontane	422	C30H62	000638-68-6	76
3	Heneicosane	296	C21H44	000629-94-7	76
4	Docosane, 11-butyl-	366	C26H54	013475-76-8	70
5	Tetradecane, 1-iodo-	324	C14H29I	019218-94-1	68





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080123\
Data File : BF134566.D
Acq On : 02 Aug 2023 00:41
Operator : CG\JU
Sample : 03645-06
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-10-(0.5-2.0)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

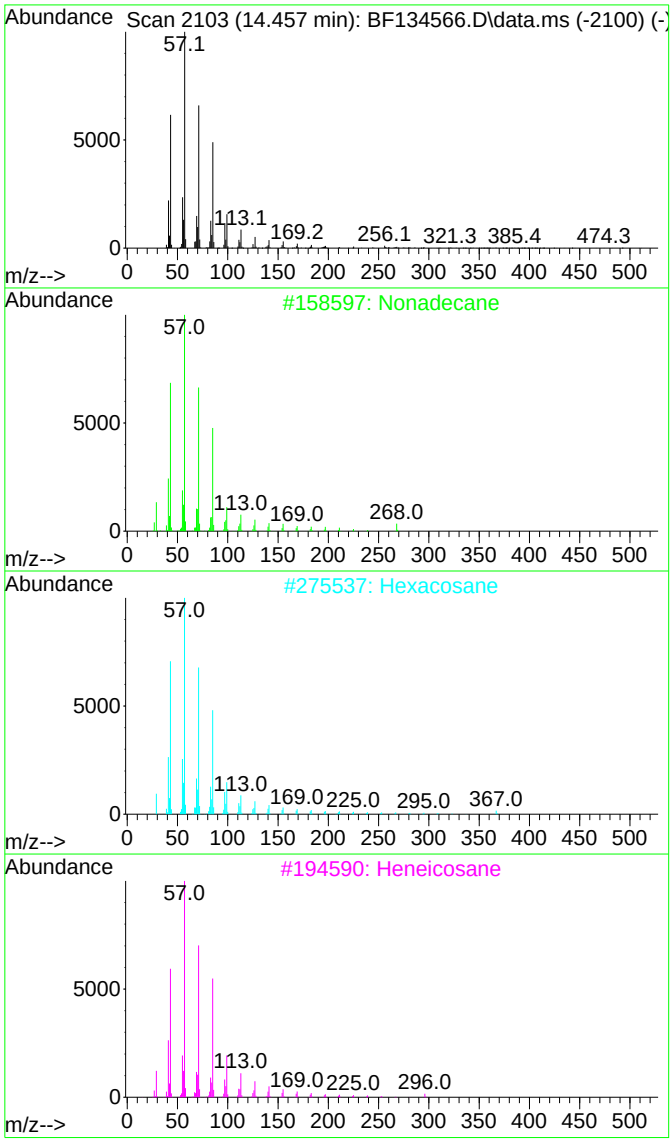
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

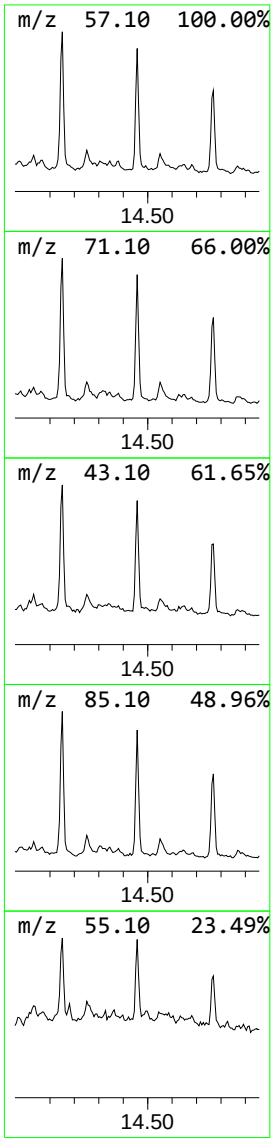
****

Peak Number 17 Triacontane Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.457	8.28 ng	1111920	Chrysene-d12	13.969

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Nonadecane	268	C19H40	000629-92-5	93
2	Hexacosane	366	C26H54	000630-01-3	91
3	Heneicosane	296	C21H44	000629-94-7	91
4	Triacontane	422	C30H62	000638-68-6	91
5	Octacosane	394	C28H58	000630-02-4	91





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080123\
Data File : BF134566.D
Acq On : 02 Aug 2023 00:41
Operator : CG\JU
Sample : 03645-06
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-10-(0.5-2.0)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

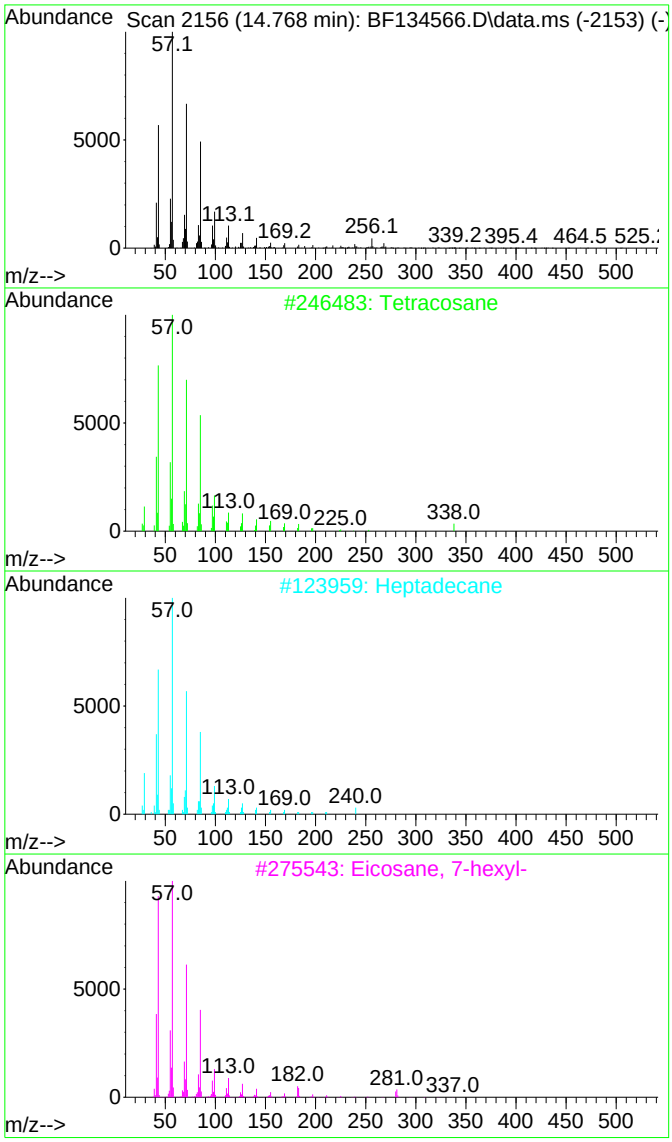
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

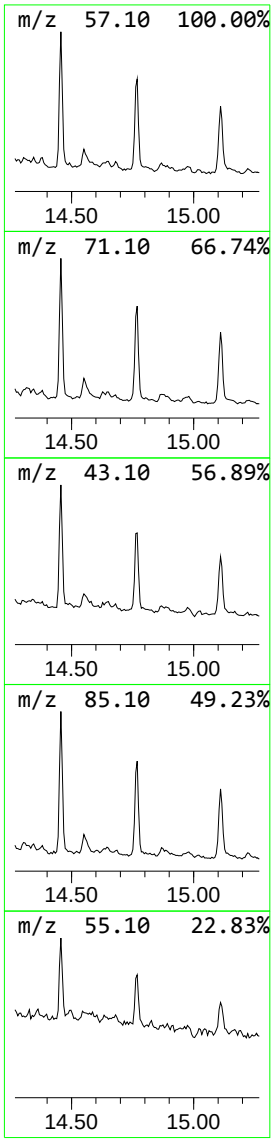
****

Peak Number 18 Heptadecane Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.769	50.63 ng	1038630	Perylene-d12	15.427

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tetracosane	338	C24H50	000646-31-1	91
2	Heptadecane	240	C17H36	000629-78-7	91
3	Eicosane, 7-hexyl-	366	C26H54	055333-99-8	91
4	Heptadecane, 9-octyl-	352	C25H52	007225-64-1	91
5	Triacontane	422	C30H62	000638-68-6	91





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080123\
Data File : BF134566.D
Acq On : 02 Aug 2023 00:41
Operator : CG\JU
Sample : 03645-06
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-10-(0.5-2.0)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

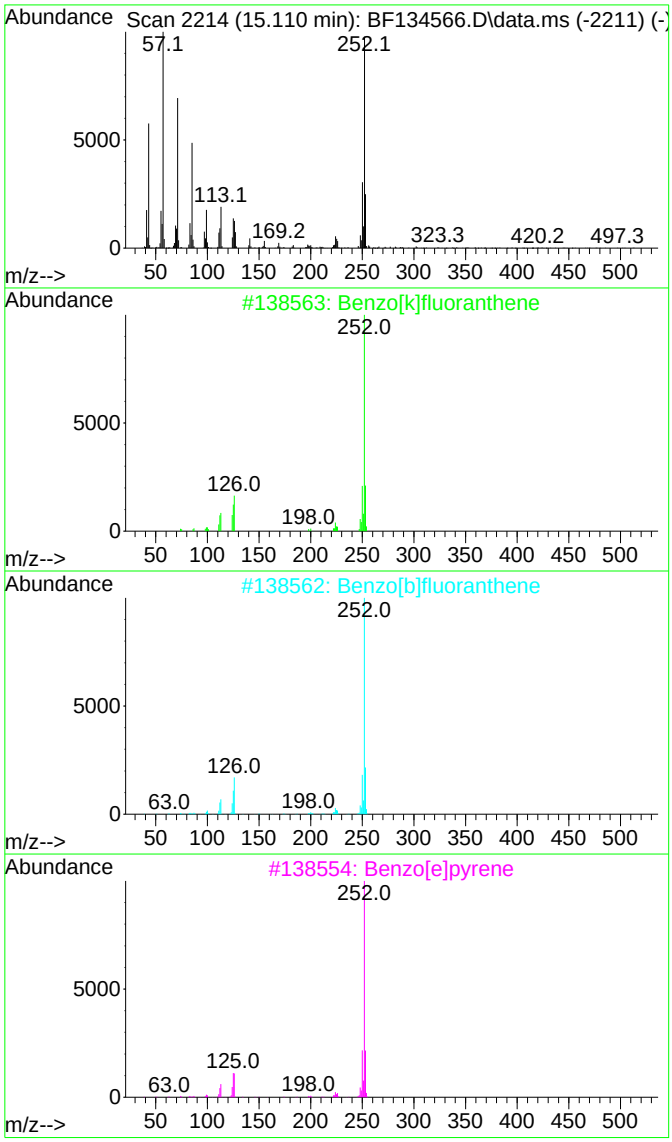
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

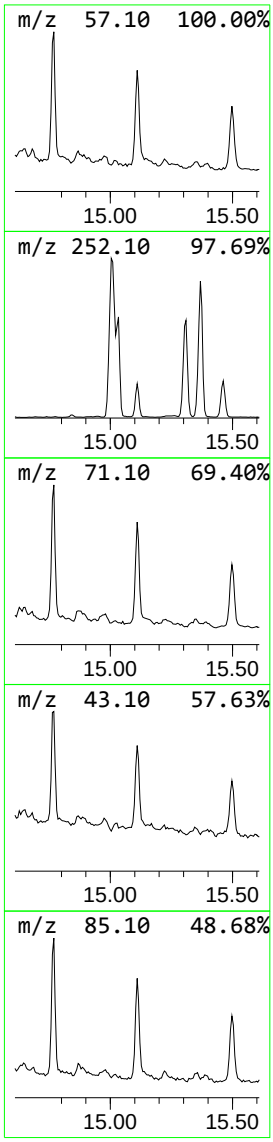
****

Peak Number 19 Benzo[e]pyrene Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.110	49.02 ng	1005530	Perylene-d12	15.427

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[k]fluoranthene	252	C20H12	000207-08-9	78
2	Benzo[b]fluoranthene	252	C20H12	000205-99-2	78
3	Benzo[e]pyrene	252	C20H12	000192-97-2	78
4	Benzo[a]pyrene	252	C20H12	000050-32-8	76
5	Hexadecane	226	C16H34	000544-76-3	74





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080123\
Data File : BF134566.D
Acq On : 02 Aug 2023 00:41
Operator : CG\JU
Sample : 03645-06
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-10-(0.5-2.0)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

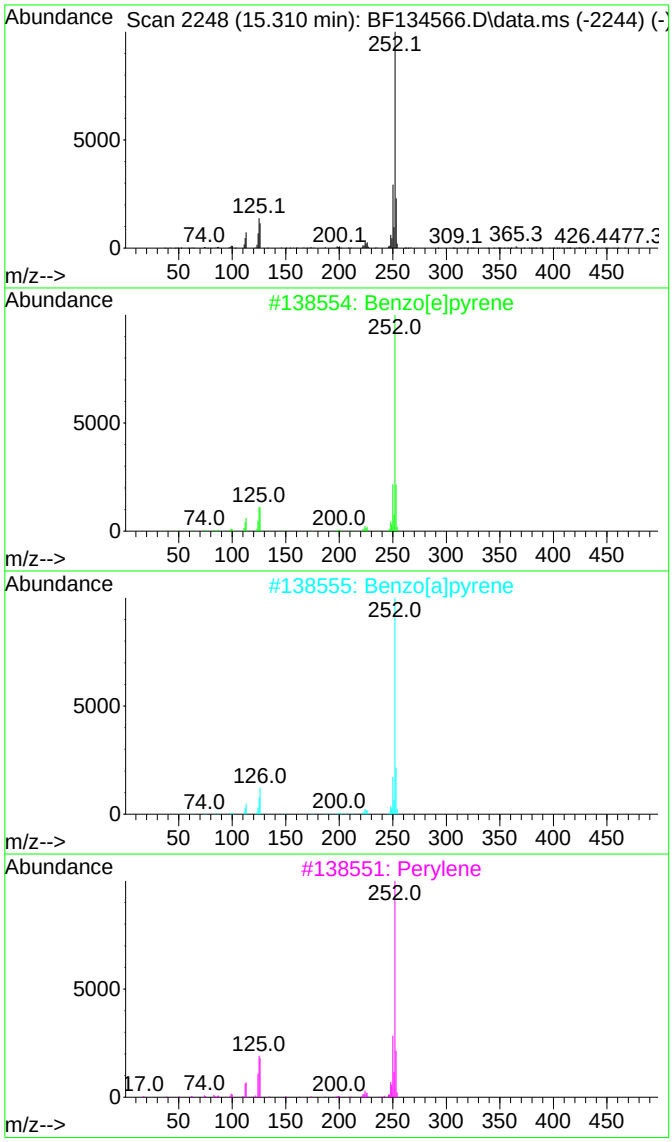
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

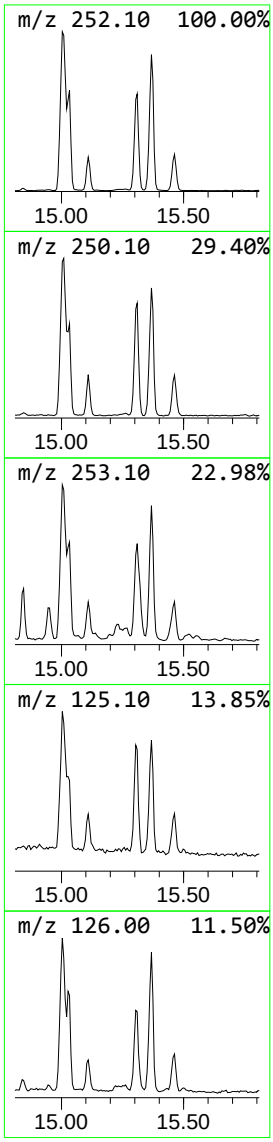
****

Peak Number 20 Perylene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.310	59.39 ng	1218300	Perylene-d12	15.427

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	99
2	Benzo[a]pyrene	252	C20H12	000050-32-8	97
3	Perylene	252	C20H12	000198-55-0	97
4	Benzo[k]fluoranthene	252	C20H12	000207-08-9	95
5	Benzo[b]fluoranthene	252	C20H12	000205-99-2	95





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080123\
Data File : BF134566.D
Acq On : 02 Aug 2023 00:41
Operator : CG\JU
Sample : 03645-06
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-10-(0.5-2.0)

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Hexadecane	9.234	11.1	ng	811388	3	9.828	1461550	20.0
Sulfurous acid,...	9.769	7.3	ng	533603	3	9.828	1461550	20.0
Hexathiane	10.122	7.8	ng	568481	3	9.828	1461550	20.0
Tridecane, 6-pr...	10.739	14.1	ng	940375	4	11.316	1338850	20.0
Tetradecane	11.192	10.9	ng	730273	4	11.316	1338850	20.0
Nonadecane	11.622	12.6	ng	840950	4	11.316	1338850	20.0
Anthracene, 2-m...	11.816	8.2	ng	549116	4	11.316	1338850	20.0
Eicosane	12.033	15.2	ng	1016930	4	11.316	1338850	20.0
Naphthalene, 2-...	12.116	10.9	ng	729561	4	11.316	1338850	20.0
Heneicosane	12.422	23.7	ng	1585170	4	11.316	1338850	20.0
Octadecanoic acid	12.651	11.1	ng	1484210	5	13.969	2686040	20.0
Pentacosane	13.157	14.4	ng	1940810	5	13.969	2686040	20.0
Hexacosane	13.504	12.8	ng	1724700	5	13.969	2686040	20.0
Dehydroabietic ...	13.769	6.5	ng	872558	5	13.969	2686040	20.0
Tetracosane	13.833	12.4	ng	1670450	5	13.969	2686040	20.0
Eicosane, 10-me...	14.151	9.6	ng	1295220	5	13.969	2686040	20.0
Triacontane	14.457	8.3	ng	1111920	5	13.969	2686040	20.0
Heptadecane	14.769	50.6	ng	1038630	6	15.427	410251	20.0
Benzo[e]pyrene	15.110	49.0	ng	1005530	6	15.427	410251	20.0
Perylene	15.310	59.4	ng	1218300	6	15.427	410251	20.0

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/13/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-10-(0.5-2.0)DL	SDG No.:	O3645
Lab Sample ID:	O3645-06DL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	83.3
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF134565.D	5	07/18/23 09:45	08/02/23 00:09	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	2000	UD	890	2000	ug/Kg
108-95-2	Phenol	1000	UD	450	1000	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1000	UD	540	1000	ug/Kg
95-57-8	2-Chlorophenol	1000	UD	430	1000	ug/Kg
95-48-7	2-Methylphenol	1000	UD	680	1000	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1000	UD	630	1000	ug/Kg
98-86-2	Acetophenone	1000	UD	520	1000	ug/Kg
65794-96-9	3+4-Methylphenols	2000	UD	650	2000	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	480	UD	350	480	ug/Kg
67-72-1	Hexachloroethane	1000	UD	440	1000	ug/Kg
98-95-3	Nitrobenzene	1000	UD	450	1000	ug/Kg
78-59-1	Isophorone	1000	UD	410	1000	ug/Kg
88-75-5	2-Nitrophenol	1000	UD	570	1000	ug/Kg
105-67-9	2,4-Dimethylphenol	1000	UD	600	1000	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1000	UD	670	1000	ug/Kg
120-83-2	2,4-Dichlorophenol	1000	UD	470	1000	ug/Kg
91-20-3	Naphthalene	1000	UD	490	1000	ug/Kg
106-47-8	4-Chloroaniline	1000	UD	630	1000	ug/Kg
87-68-3	Hexachlorobutadiene	1000	UD	500	1000	ug/Kg
105-60-2	Caprolactam	2000	UD	700	2000	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1000	UD	490	1000	ug/Kg
91-57-6	2-Methylnaphthalene	1000	UD	570	1000	ug/Kg
77-47-4	Hexachlorocyclopentadiene	2000	UD	1300	2000	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1000	UD	460	1000	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1000	UD	530	1000	ug/Kg
92-52-4	1,1-Biphenyl	1000	UD	550	1000	ug/Kg
91-58-7	2-Chloronaphthalene	1000	UD	510	1000	ug/Kg
88-74-4	2-Nitroaniline	1000	UD	600	1000	ug/Kg
131-11-3	Dimethylphthalate	1000	UD	530	1000	ug/Kg
208-96-8	Acenaphthylene	1000	UD	530	1000	ug/Kg
606-20-2	2,6-Dinitrotoluene	1000	UD	540	1000	ug/Kg

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/13/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-10-(0.5-2.0)DL	SDG No.:	O3645
Lab Sample ID:	O3645-06DL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	83.3
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF134565.D	5	07/18/23 09:45	08/02/23 00:09	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
99-09-2	3-Nitroaniline	1000	UD	560	1000	ug/Kg
83-32-9	Acenaphthene	1000	UD	480	1000	ug/Kg
51-28-5	2,4-Dinitrophenol	2000	UD	1100	2000	ug/Kg
100-02-7	4-Nitrophenol	2000	UD	680	2000	ug/Kg
132-64-9	Dibenzofuran	1000	UD	460	1000	ug/Kg
121-14-2	2,4-Dinitrotoluene	1000	UD	600	1000	ug/Kg
84-66-2	Diethylphthalate	1000	UD	510	1000	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1000	UD	540	1000	ug/Kg
86-73-7	Fluorene	1000	UD	510	1000	ug/Kg
100-01-6	4-Nitroaniline	1000	UD	620	1000	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	2000	UD	530	2000	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1000	UD	560	1000	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1000	UD	580	1000	ug/Kg
118-74-1	Hexachlorobenzene	1000	UD	590	1000	ug/Kg
1912-24-9	Atrazine	1000	UD	570	1000	ug/Kg
87-86-5	Pentachlorophenol	2000	UD	670	2000	ug/Kg
85-01-8	Phenanthrene	3500	D	560	1000	ug/Kg
120-12-7	Anthracene	810	JD	610	1000	ug/Kg
86-74-8	Carbazole	1000	UD	510	1000	ug/Kg
84-74-2	Di-n-butylphthalate	1000	UD	620	1000	ug/Kg
206-44-0	Fluoranthene	4400	D	570	1000	ug/Kg
129-00-0	Pyrene	3100	D	500	1000	ug/Kg
85-68-7	Butylbenzylphthalate	1000	UD	620	1000	ug/Kg
91-94-1	3,3-Dichlorobenzidine	2000	UD	960	2000	ug/Kg
56-55-3	Benzo(a)anthracene	2000	D	500	1000	ug/Kg
218-01-9	Chrysene	1900	D	520	1000	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1000	UD	690	1000	ug/Kg
117-84-0	Di-n-octyl phthalate	2000	UD	740	2000	ug/Kg
205-99-2	Benzo(b)fluoranthene	2700	D	480	1000	ug/Kg
207-08-9	Benzo(k)fluoranthene	820	JD	530	1000	ug/Kg
50-32-8	Benzo(a)pyrene	1800	D	570	1000	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	970	JD	640	1000	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1000	UD	580	1000	ug/Kg

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/13/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-10-(0.5-2.0)DL	SDG No.:	O3645
Lab Sample ID:	O3645-06DL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	83.3
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF134565.D	5	07/18/23 09:45	08/02/23 00:09	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
191-24-2	Benzo(g,h,i)perylene	1100	D	550	1000	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1000	UD	540	1000	ug/Kg
123-91-1	1,4-Dioxane	1000	UD	700	1000	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1000	UD	500	1000	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	119		18 - 112	79%	SPK: 150
13127-88-3	Phenol-d6	119		21 - 104	79%	SPK: 150
4165-60-0	Nitrobenzene-d5	91.3		27 - 109	91%	SPK: 100
321-60-8	2-Fluorobiphenyl	106	*	30 - 103	106%	SPK: 100
118-79-6	2,4,6-Tribromophenol	104		10 - 121	69%	SPK: 150
1718-51-0	Terphenyl-d14	84.8		21 - 107	85%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	176000	6.792			
1146-65-2	Naphthalene-d8	669000	8.069			
15067-26-2	Acenaphthene-d10	288000	9.822			
1517-22-2	Phenanthrene-d10	447000	11.31			
1719-03-5	Chrysene-d12	336000	13.957			
1520-96-3	Perylene-d12	267000	15.415			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080123\
Data File : BF134565.D
Acq On : 02 Aug 2023 00:09
Operator : CG\JU
Sample : 03645-06DL 5X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SB-10-(0.5-2.0)DL

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

Quant Time: Aug 02 02:47:28 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 02 02:20:34 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.792	152	176047	20.000	ng		0.00
21) Naphthalene-d8	8.069	136	669108	20.000	ng		# 0.00
39) Acenaphthene-d10	9.822	164	288095	20.000	ng		0.00
64) Phenanthrene-d10	11.310	188	446577	20.000	ng		# 0.00
76) Chrysene-d12	13.957	240	335956	20.000	ng		# 0.00
86) Perylene-d12	15.415	264	267080	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.404	112	275066	23.751	ng		-0.01
7) Phenol-d6	6.410	99	351976	23.775	ng		-0.02
23) Nitrobenzene-d5	7.345	82	195417	18.251	ng		-0.01
42) 2,4,6-Tribromophenol	10.610	330	60908	20.739	ng		0.00
45) 2-Fluorobiphenyl	9.145	172	366138	21.131	ng		0.00
79) Terphenyl-d14	12.904	244	323050	16.951	ng		0.00
Target Compounds							Qvalue
71) Phenanthrene	11.333	178	413642	17.438	ng		99
72) Anthracene	11.386	178	98309	4.057	ng		99
75) Fluoranthene	12.527	202	546233	21.800	ng		97
78) Pyrene	12.757	202	453292	15.593	ng		98
81) Benzo(a)anthracene	13.945	228	237138	9.872	ng		99
83) Chrysene	13.980	228	216941	9.269	ng		97
87) Indeno(1,2,3-cd)pyrene	16.880	276	76120	4.846	ng	#	95
88) Benzo(b)fluoranthene	14.992	252	224244m	13.767	ng		
89) Benzo(k)fluoranthene	15.015	252	66375m	4.091	ng		
90) Benzo(a)pyrene	15.351	252	134432	8.851	ng	#	91
92) Benzo(g,h,i)perylene	17.327	276	74407	5.746	ng	#	90

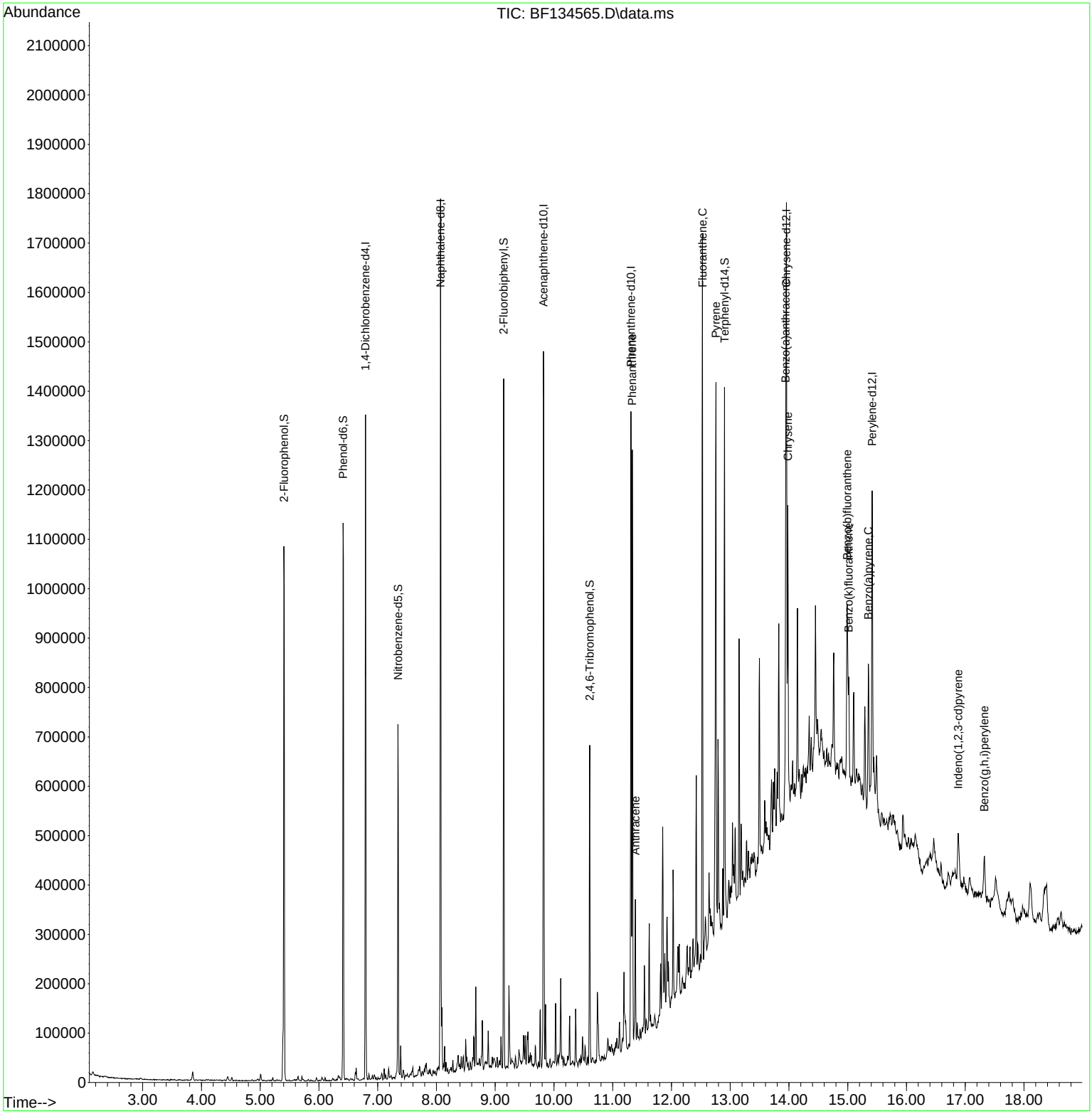
(#) = qualifier out of range (m) = manual integration (+) = signals summed

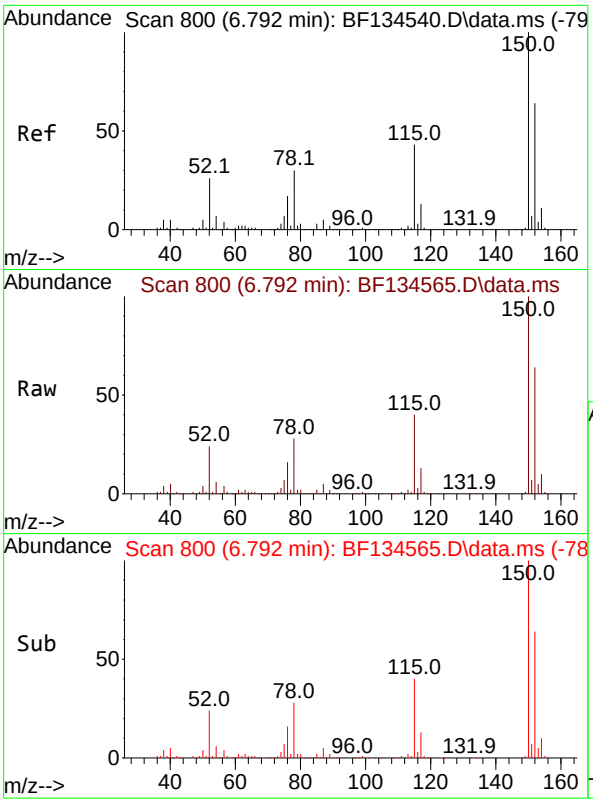
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080123\
Data File : BF134565.D
Acq On : 02 Aug 2023 00:09
Operator : CG\JU
Sample : 03645-06DL 5X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Aug 02 02:47:28 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 02 02:20:34 2023
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SB-10-(0.5-2.0)DL

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

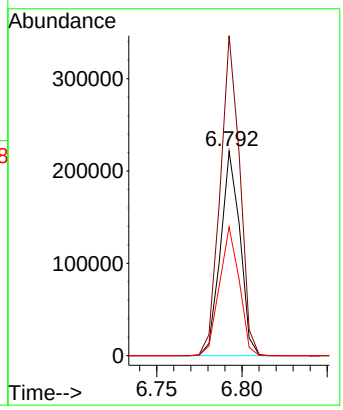




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.792 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF134565.D
Acq: 02 Aug 2023 00:09

Tgt Ion:152 Resp: 17604

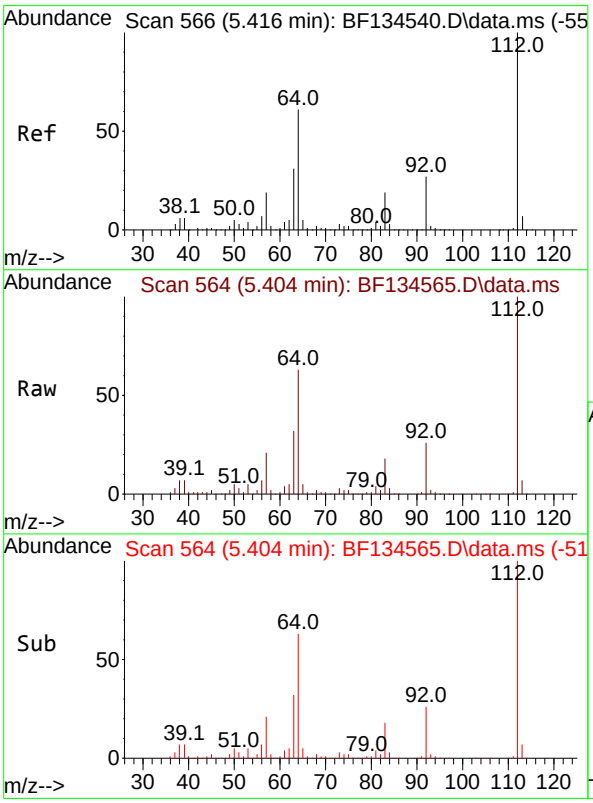
Ion	Ratio	Lower	Upper
152	100		
150	156.6	128.3	192.5
115	63.0	52.4	78.6



Instrument :
BNA_F
ClientSampleId :
SB-10-(0.5-2.0)DL

Manual Integrations
APPROVED

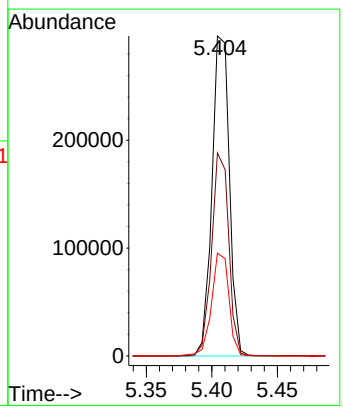
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

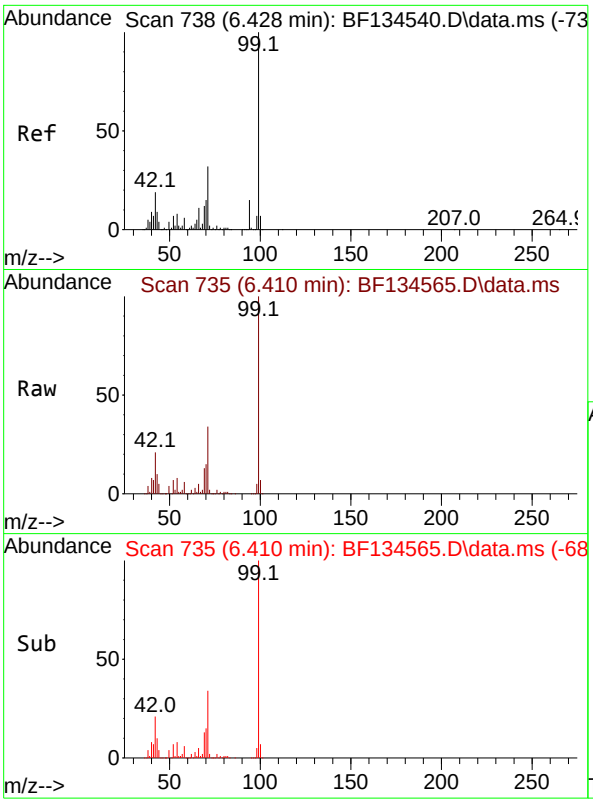


#5
2-Fluorophenol
Concen: 23.751 ng
RT: 5.404 min Scan# 564
Delta R.T. -0.012 min
Lab File: BF134565.D
Acq: 02 Aug 2023 00:09

Tgt Ion:112 Resp: 275066

Ion	Ratio	Lower	Upper
112	100		
64	63.4	44.9	67.3
63	32.2	25.4	38.0

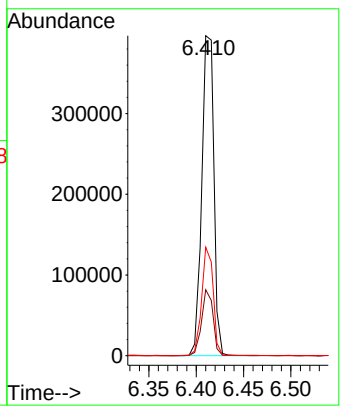




#7
Phenol-d6
Concen: 23.775 ng
RT: 6.410 min Scan# 7
Delta R.T. -0.018 min
Lab File: BF134565.D
Acq: 02 Aug 2023 00:09

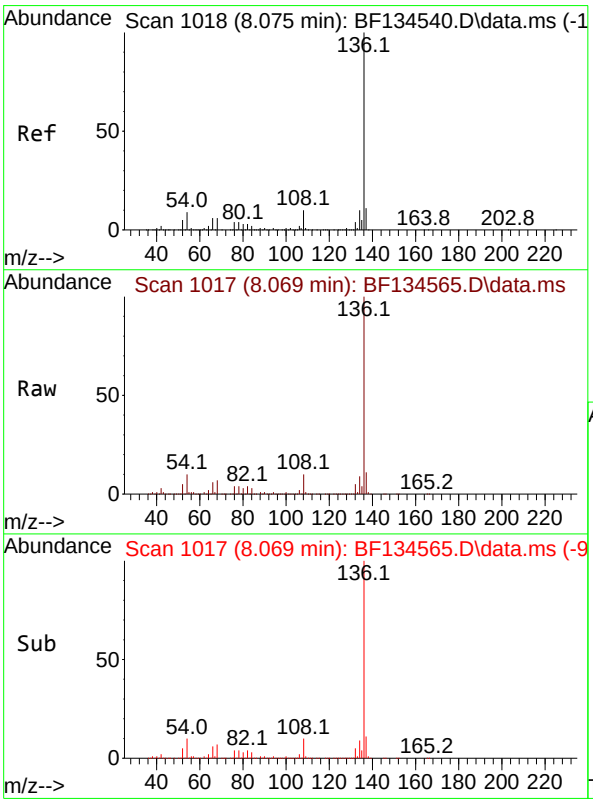
Tgt Ion: 99 Resp: 35197

Ion	Ratio	Lower	Upper
99	100		
42	20.6	18.7	28.1
71	33.9	36.4	54.6#



Instrument :
BNA_F
ClientSampleId :
SB-10-(0.5-2.0)DL

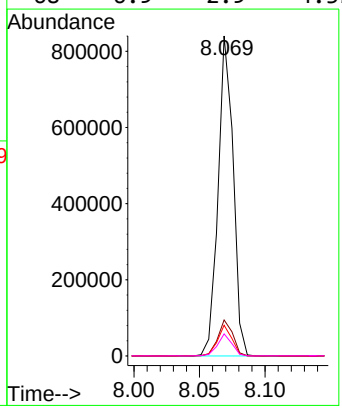
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

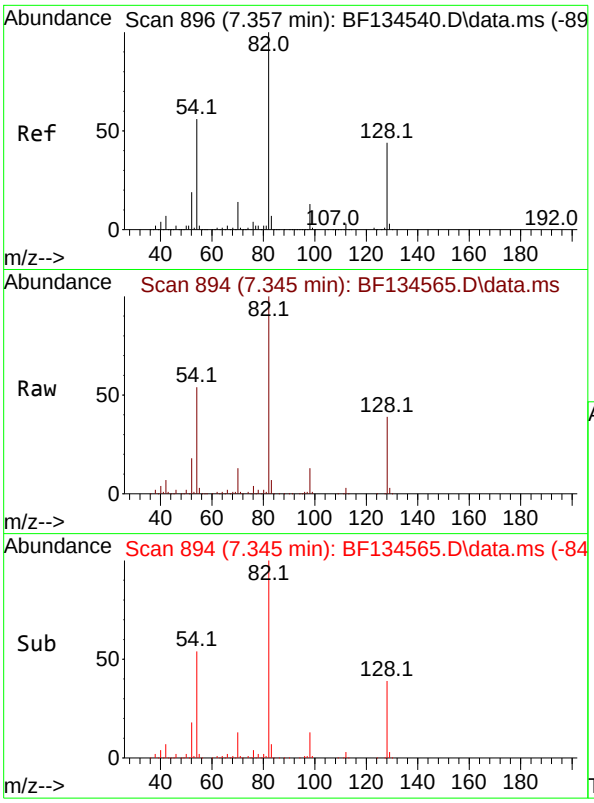


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.069 min Scan# 1017
Delta R.T. -0.006 min
Lab File: BF134565.D
Acq: 02 Aug 2023 00:09

Tgt Ion:136 Resp: 669108

Ion	Ratio	Lower	Upper
136	100		
137	11.2	8.4	12.6
54	9.6	5.2	7.8#
68	6.9	2.9	4.3#





#23
Nitrobenzene-d5
Concen: 18.251 ng
RT: 7.345 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF134565.D
Acq: 02 Aug 2023 00:09

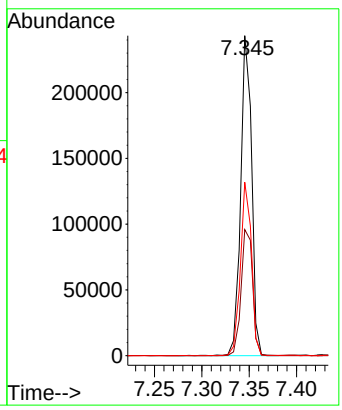
Tgt Ion: 82 Resp: 19541

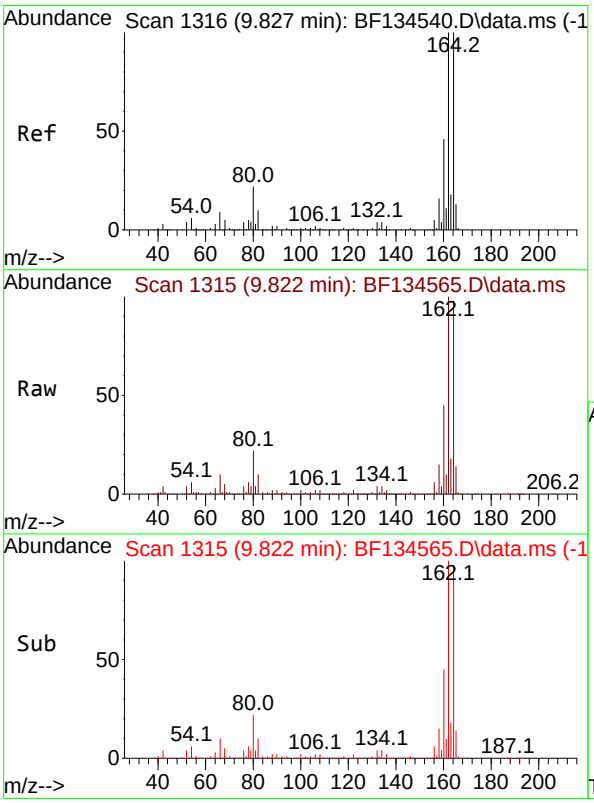
Ion	Ratio	Lower	Upper
82	100		
128	39.4	34.3	51.5
54	54.2	43.8	65.6

Instrument :
BNA_F
ClientSampleId :
SB-10-(0.5-2.0)DL

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

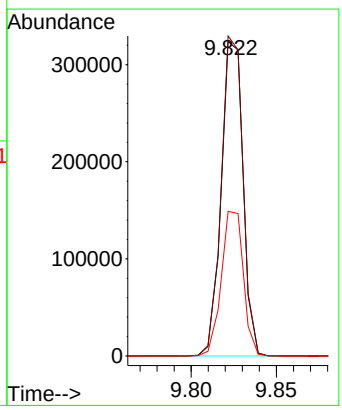


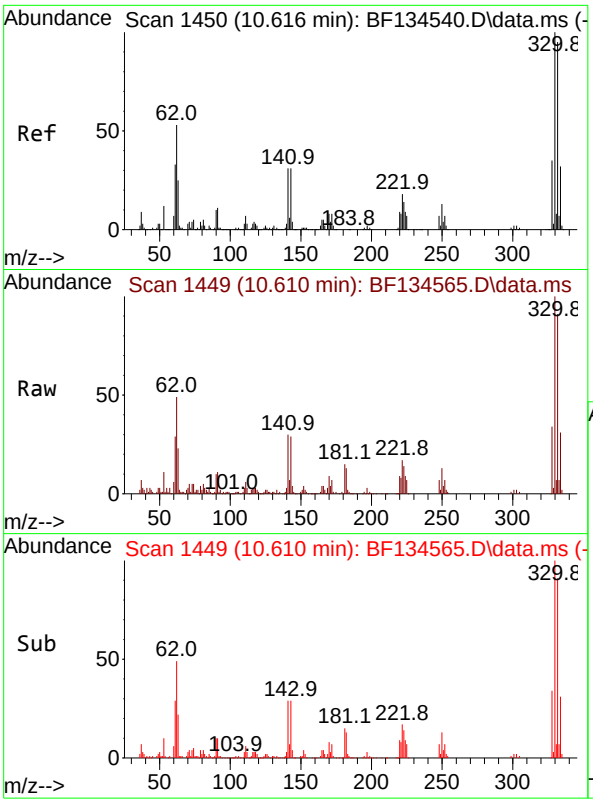


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.822 min Scan# 1315
Delta R.T. -0.006 min
Lab File: BF134565.D
Acq: 02 Aug 2023 00:09

Tgt Ion:164 Resp: 288095

Ion	Ratio	Lower	Upper
164	100		
162	101.8	82.6	123.8
160	46.0	37.2	55.8





#42
2,4,6-Tribromophenol
Concen: 20.739 ng
RT: 10.610 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF134565.D
Acq: 02 Aug 2023 00:09

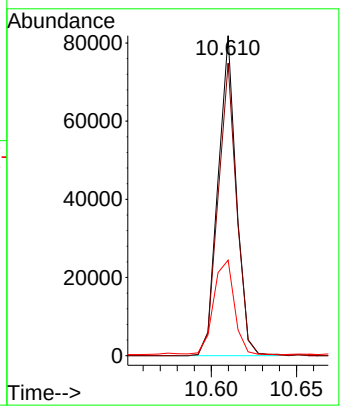
Tgt Ion:330 Resp: 6090

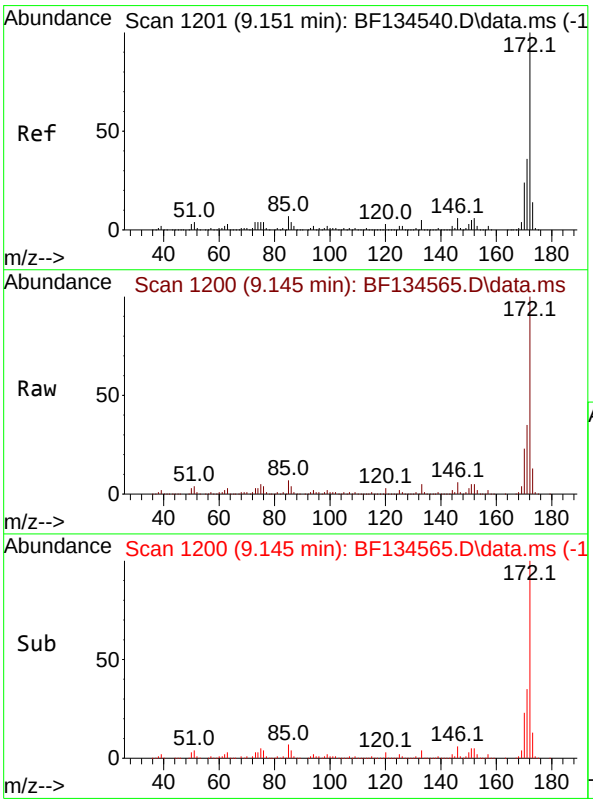
Ion	Ratio	Lower	Upper
330	100		
332	93.0	78.8	118.2
141	33.8	25.4	38.2

Instrument :
BNA_F
ClientSampleId :
SB-10-(0.5-2.0)DL

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

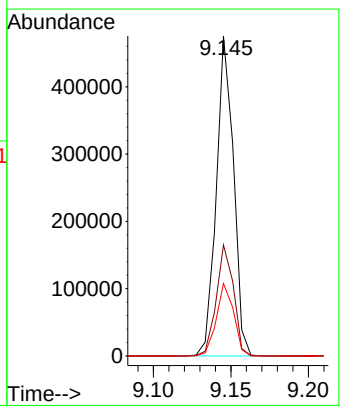


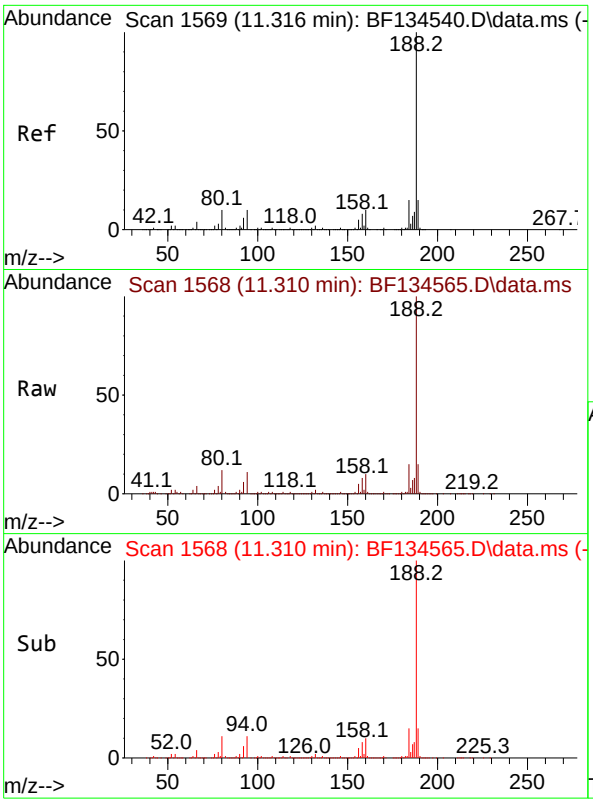


#45
2-Fluorobiphenyl
Concen: 21.131 ng
RT: 9.145 min Scan# 1200
Delta R.T. -0.006 min
Lab File: BF134565.D
Acq: 02 Aug 2023 00:09

Tgt Ion:172 Resp: 366138

Ion	Ratio	Lower	Upper
172	100		
171	34.7	28.8	43.2
170	22.6	18.7	28.1

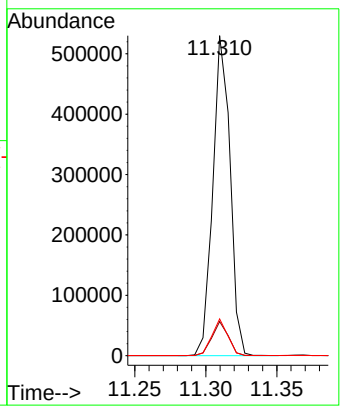




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.310 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF134565.D
Acq: 02 Aug 2023 00:09

Tgt Ion:188 Resp: 44657

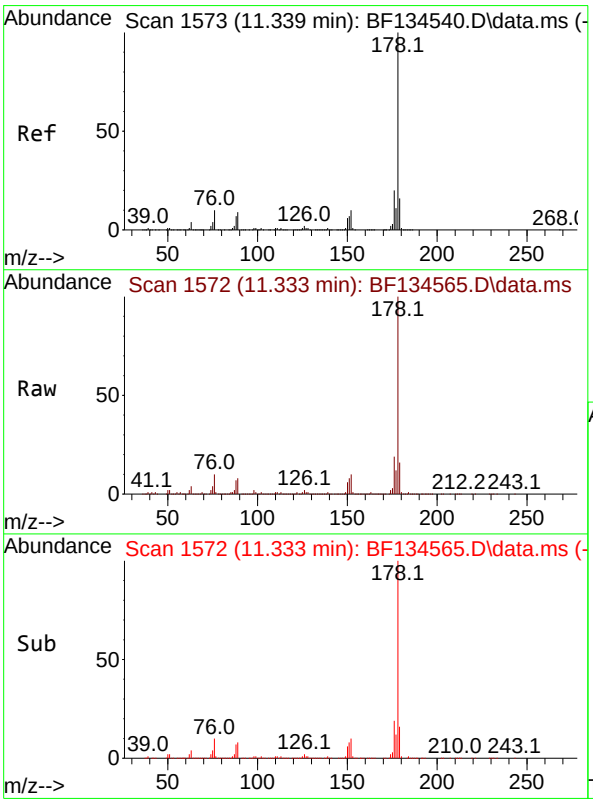
Ion	Ratio	Lower	Upper
188	100		
94	10.7	5.1	7.7#
80	11.5	6.6	9.8#



Instrument :
BNA_F
ClientSampleId :
SB-10-(0.5-2.0)DL

Manual Integrations
APPROVED

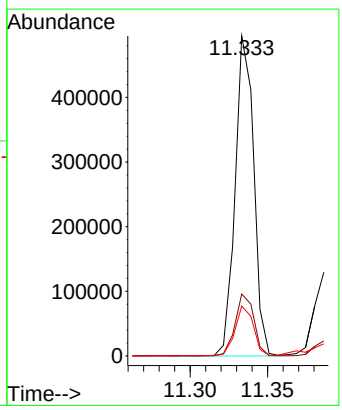
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

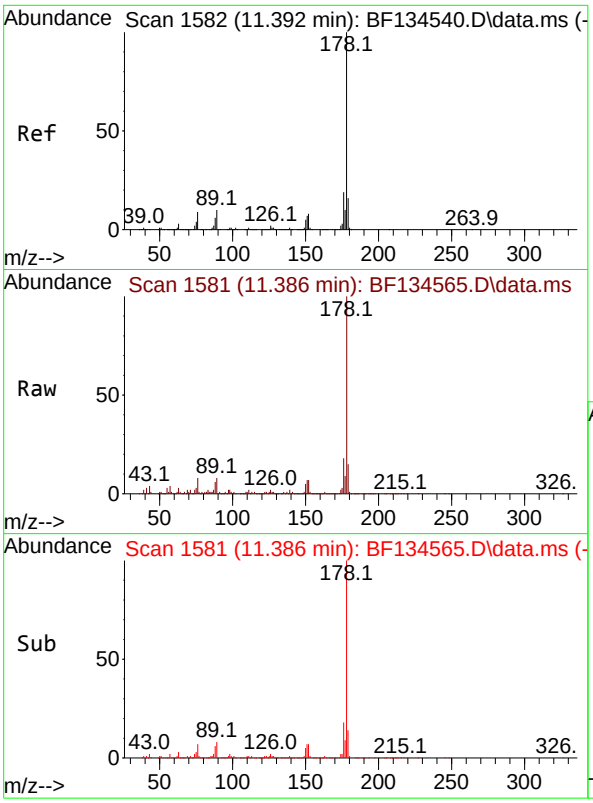


#71
Phenanthrene
Concen: 17.438 ng
RT: 11.333 min Scan# 1572
Delta R.T. -0.006 min
Lab File: BF134565.D
Acq: 02 Aug 2023 00:09

Tgt Ion:178 Resp: 413642

Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.8	23.6
179	15.6	12.7	19.1

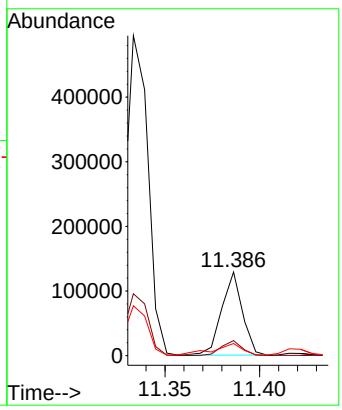




#72
Anthracene
Concen: 4.057 ng
RT: 11.386 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF134565.D
Acq: 02 Aug 2023 00:09

Tgt Ion:178 Resp: 9830

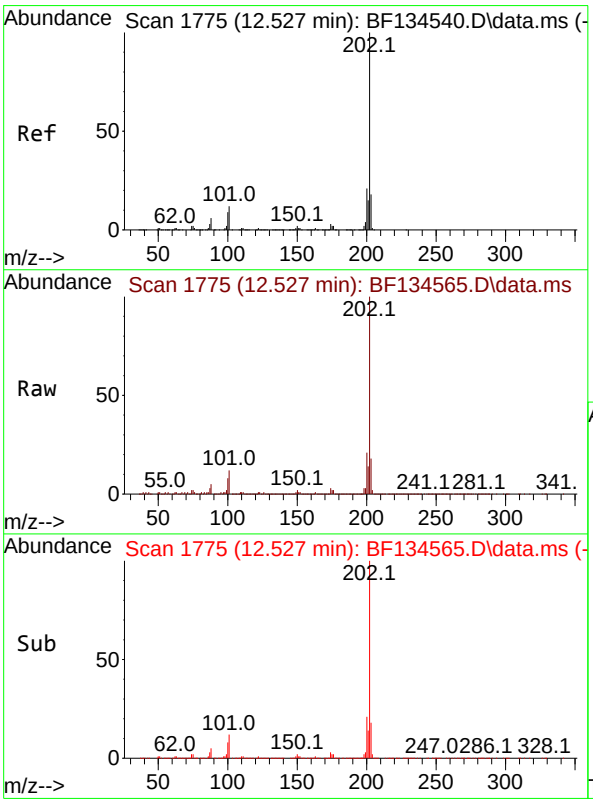
Ion	Ratio	Lower	Upper
178	100		
176	18.0	14.6	21.8
179	14.6	12.3	18.5



Instrument :
BNA_F
ClientSampleId :
SB-10-(0.5-2.0)DL

Manual Integrations
APPROVED

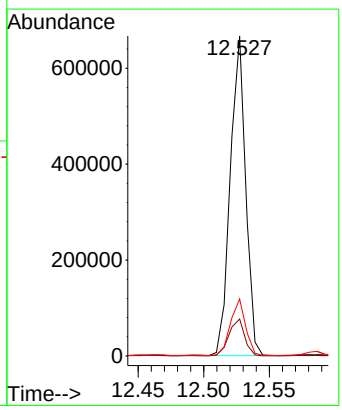
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

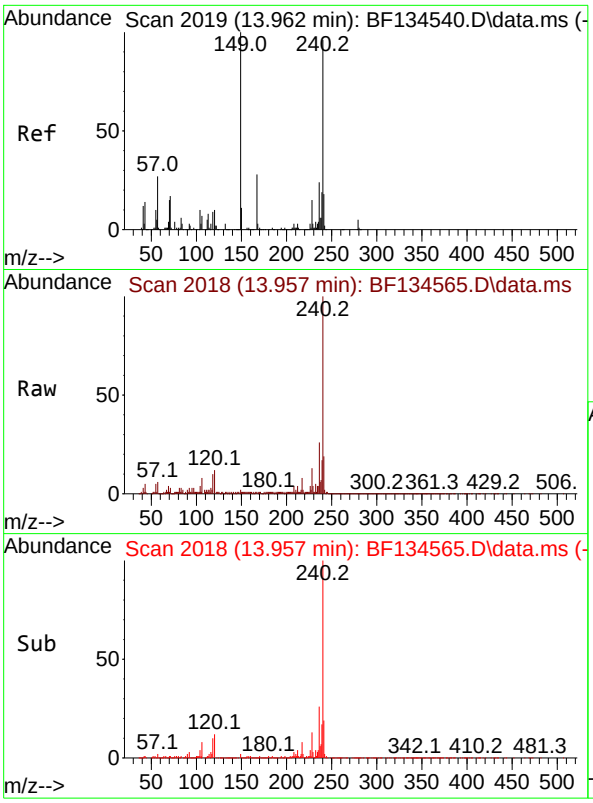


#75
Fluoranthene
Concen: 21.800 ng
RT: 12.527 min Scan# 1775
Delta R.T. 0.000 min
Lab File: BF134565.D
Acq: 02 Aug 2023 00:09

Tgt Ion:202 Resp: 546233

Ion	Ratio	Lower	Upper
202	100		
101	11.5	0.0	28.5
203	17.8	0.0	37.5

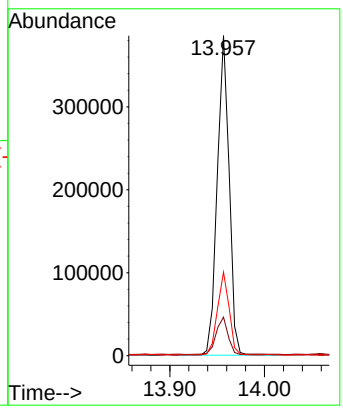




#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.957 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF134565.D
Acq: 02 Aug 2023 00:09

Tgt Ion:240 Resp: 33595

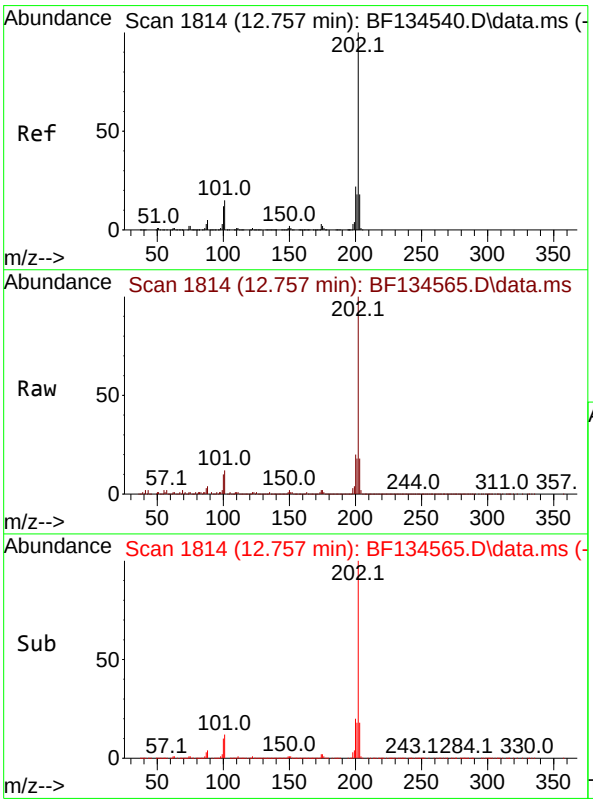
Ion	Ratio	Lower	Upper
240	100		
120	12.1	6.6	10.0
236	26.1	20.2	30.2



Instrument :
BNA_F
ClientSampleId :
SB-10-(0.5-2.0)DL

Manual Integrations
APPROVED

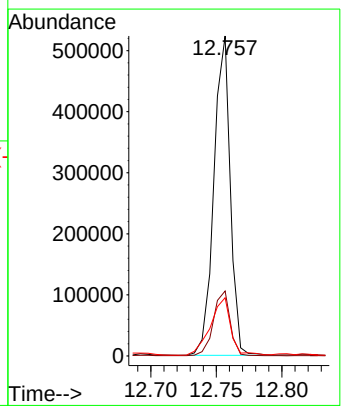
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

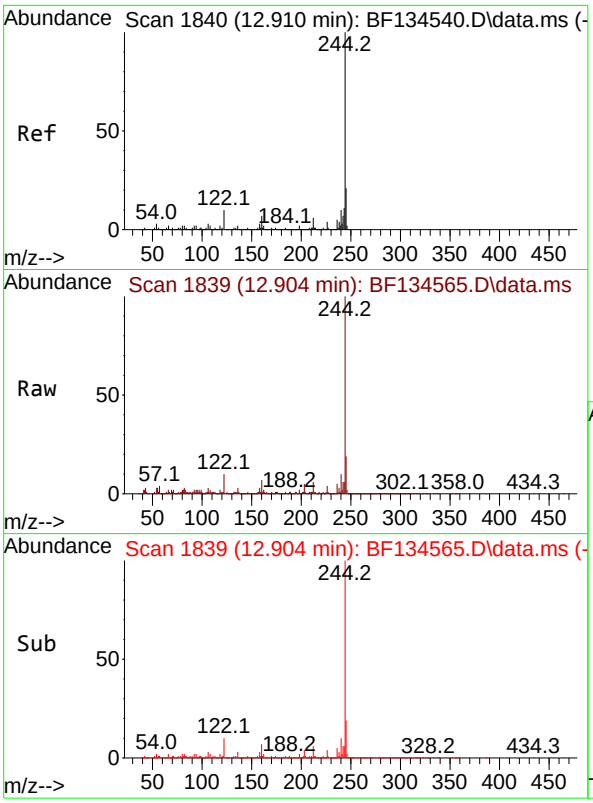


#78
Pyrene
Concen: 15.593 ng
RT: 12.757 min Scan# 1814
Delta R.T. 0.000 min
Lab File: BF134565.D
Acq: 02 Aug 2023 00:09

Tgt Ion:202 Resp: 453292

Ion	Ratio	Lower	Upper
202	100		
200	20.3	15.8	23.8
203	18.2	13.5	20.3

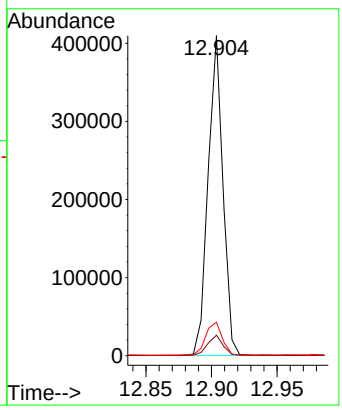




#79
Terphenyl-d14
Concen: 16.951 ng
RT: 12.904 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF134565.D
Acq: 02 Aug 2023 00:09

Tgt Ion:244 Resp: 32305

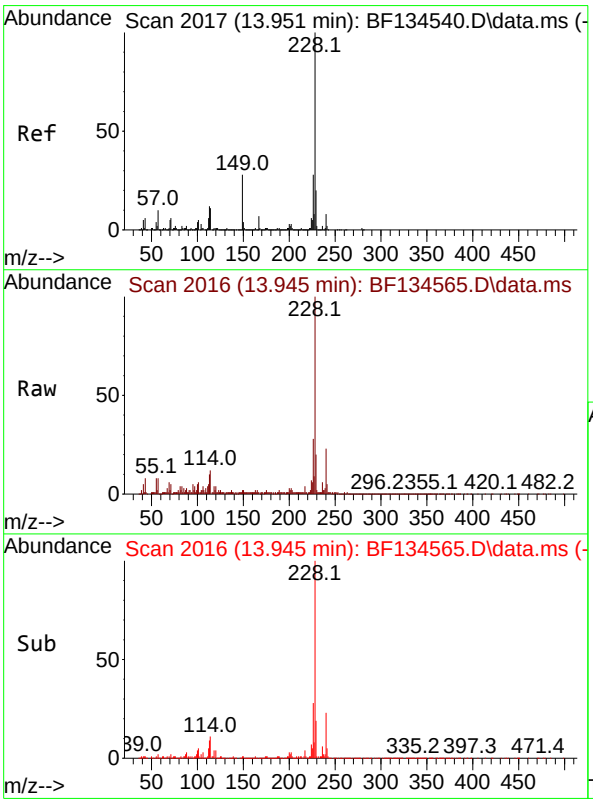
Ion	Ratio	Lower	Upper
244	100		
212	6.4	5.6	8.4
122	10.4	8.0	12.0



Instrument :
BNA_F
ClientSampleId :
SB-10-(0.5-2.0)DL

Manual Integrations
APPROVED

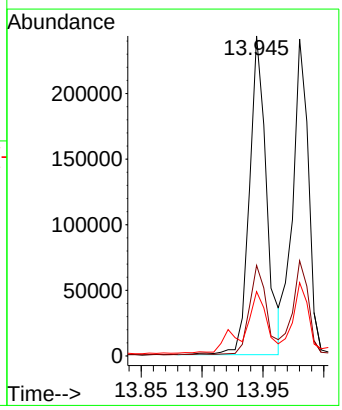
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

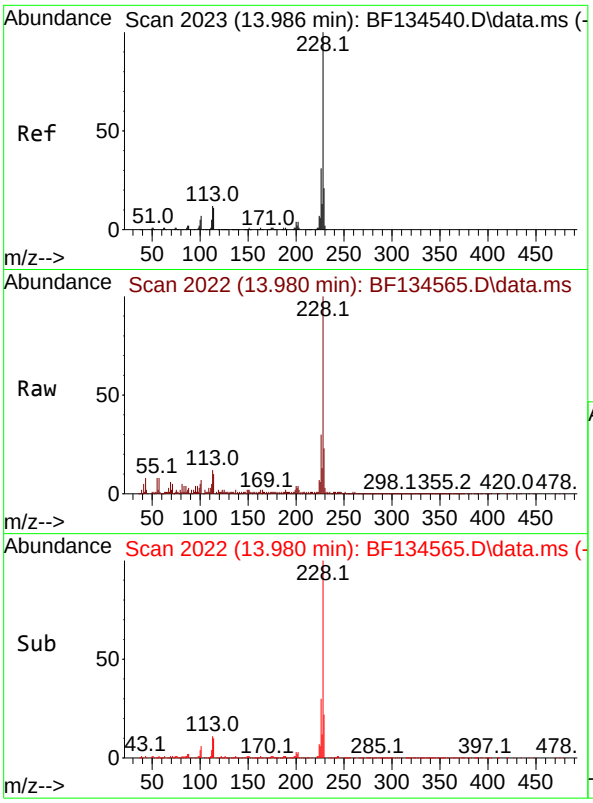


#81
Benzo(a)anthracene
Concen: 9.872 ng
RT: 13.945 min Scan# 2016
Delta R.T. -0.006 min
Lab File: BF134565.D
Acq: 02 Aug 2023 00:09

Tgt Ion:228 Resp: 237138

Ion	Ratio	Lower	Upper
228	100		
226	28.3	22.3	33.5
229	20.1	15.8	23.6

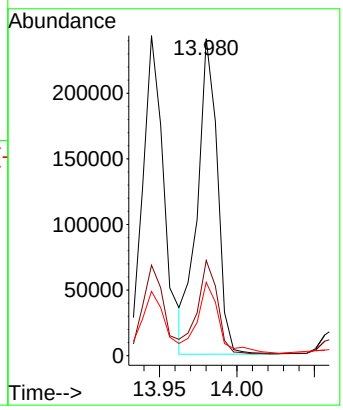




#83
Chrysene
Concen: 9.269 ng
RT: 13.980 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF134565.D
Acq: 02 Aug 2023 00:09

Tgt Ion:228 Resp: 21694

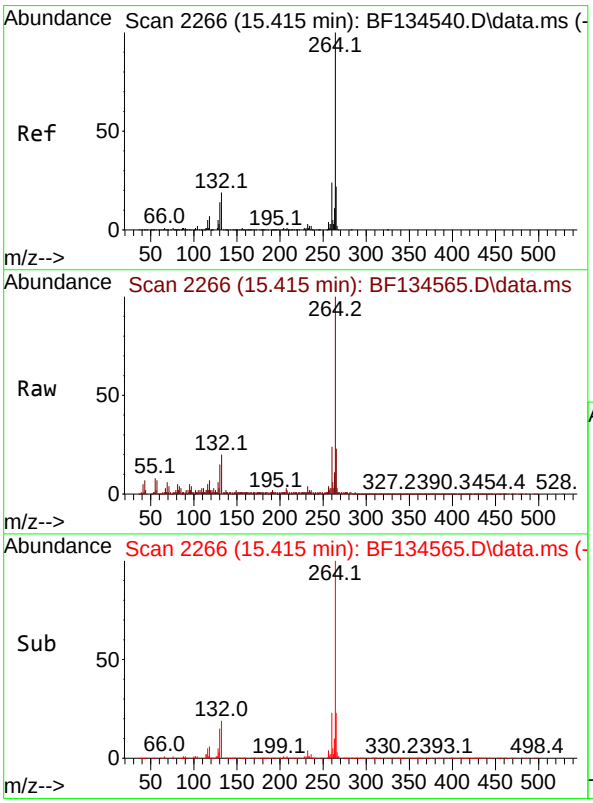
Ion	Ratio	Lower	Upper
228	100		
226	30.0	24.5	36.7
229	23.1	15.8	23.8



Instrument :
BNA_F
ClientSampleId :
SB-10-(0.5-2.0)DL

Manual Integrations
APPROVED

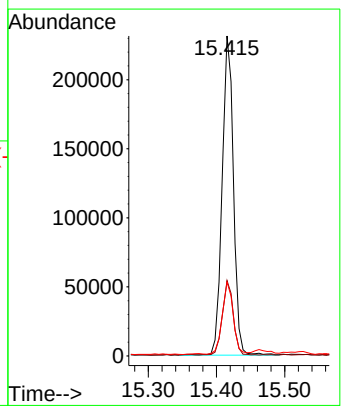
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

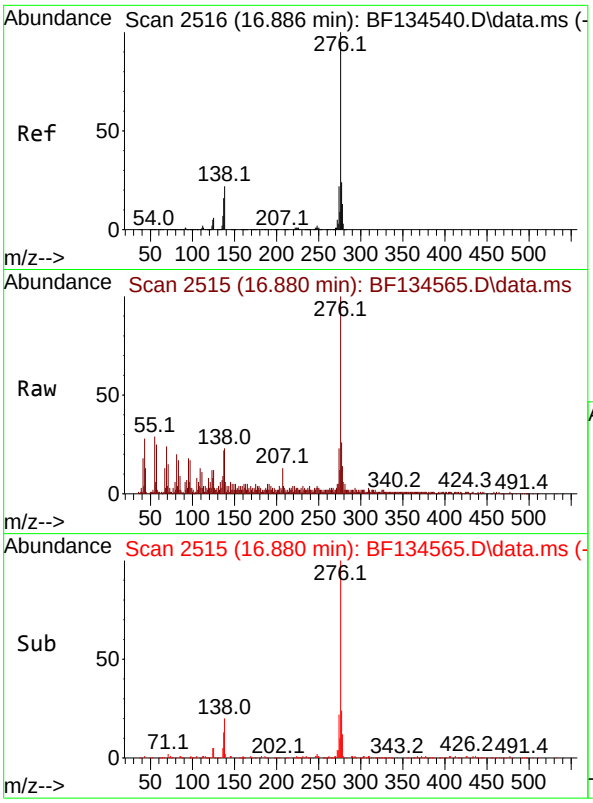


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.415 min Scan# 2266
Delta R.T. 0.000 min
Lab File: BF134565.D
Acq: 02 Aug 2023 00:09

Tgt Ion:264 Resp: 267080

Ion	Ratio	Lower	Upper
264	100		
260	23.5	18.4	27.6
265	23.1	15.8	23.8

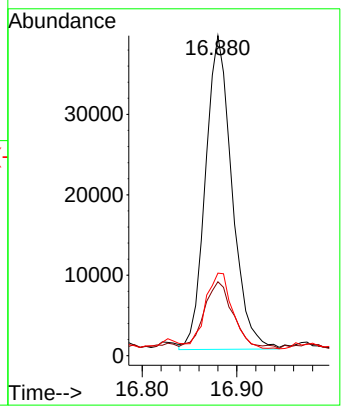




#87
Indeno(1,2,3-cd)pyrene
Concen: 4.846 ng
RT: 16.880 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF134565.D
Acq: 02 Aug 2023 00:09

Tgt Ion:276 Resp: 7612

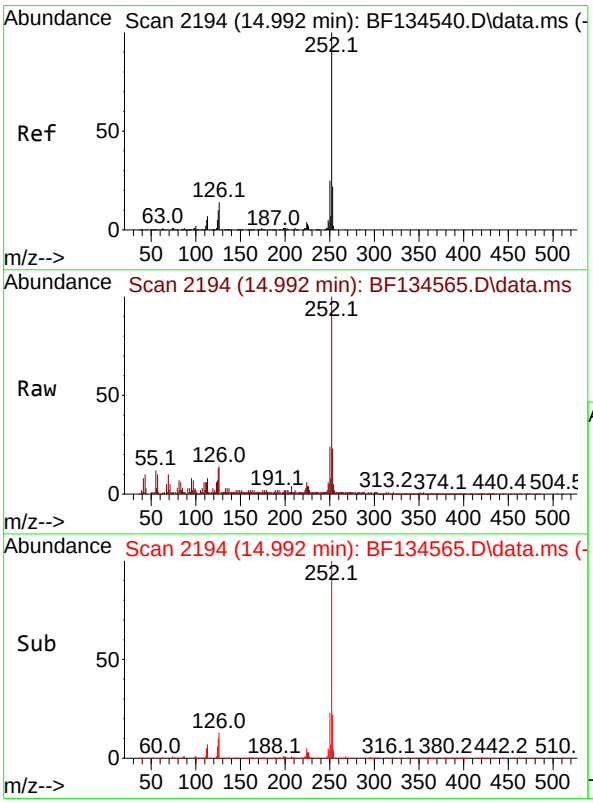
Ion	Ratio	Lower	Upper
276	100		
138	23.3	14.2	21.4#
277	24.9	19.9	29.9



Instrument :
BNA_F
ClientSampleId :
SB-10-(0.5-2.0)DL

Manual Integrations
APPROVED

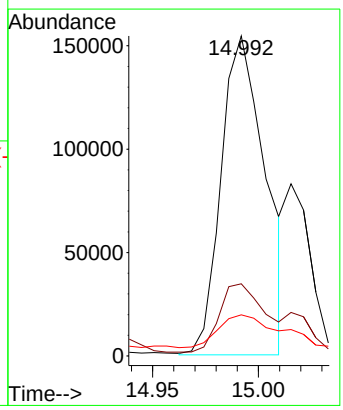
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

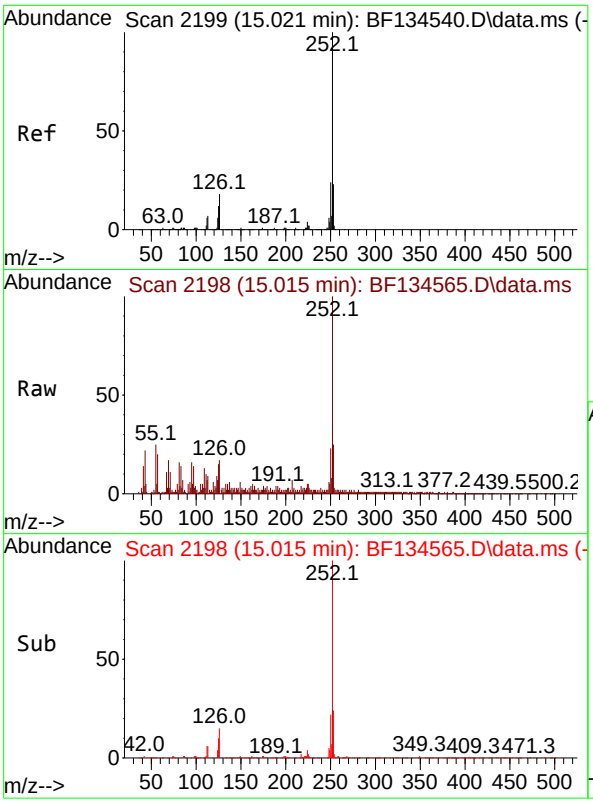


#88
Benzo(b)fluoranthene
Concen: 13.767 ng m
RT: 14.992 min Scan# 2194
Delta R.T. 0.000 min
Lab File: BF134565.D
Acq: 02 Aug 2023 00:09

Tgt Ion:252 Resp: 224244

Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.3	25.9
125	12.8	6.0	9.0#

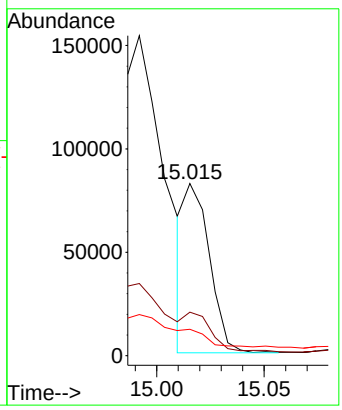




#89
Benzo(k)fluoranthene
Concen: 4.091 ng m
RT: 15.015 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF134565.D
Acq: 02 Aug 2023 00:09

Tgt Ion:252 Resp: 6637

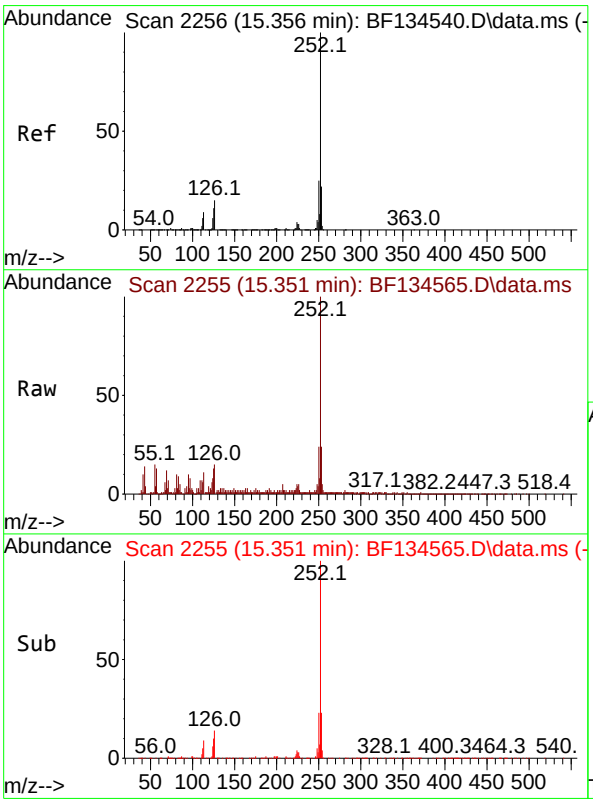
Ion	Ratio	Lower	Upper
252	100		
253	25.2	17.9	26.9
125	15.4	6.3	9.5#



Instrument :
BNA_F
ClientSampleId :
SB-10-(0.5-2.0)DL

Manual Integrations
APPROVED

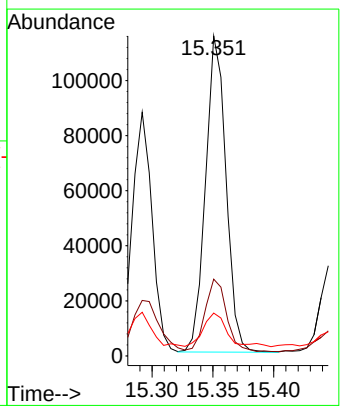
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

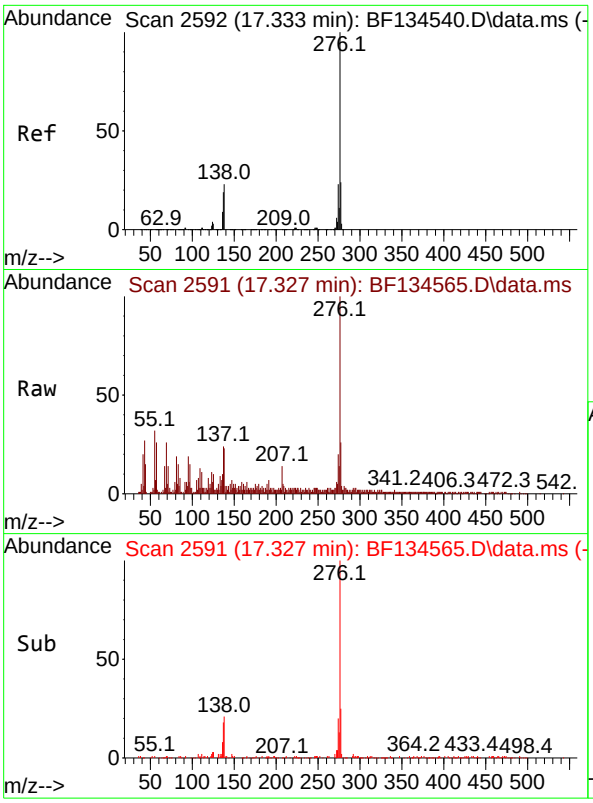


#90
Benzo(a)pyrene
Concen: 8.851 ng
RT: 15.351 min Scan# 2255
Delta R.T. -0.006 min
Lab File: BF134565.D
Acq: 02 Aug 2023 00:09

Tgt Ion:252 Resp: 134432

Ion	Ratio	Lower	Upper
252	100		
253	24.0	17.0	25.4
125	13.4	6.2	9.4#

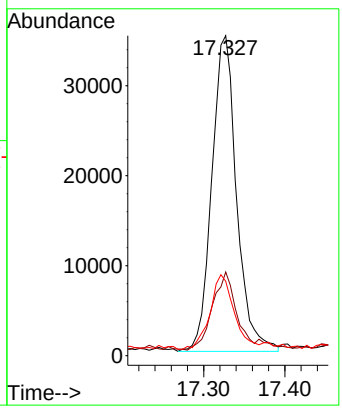




#92
Benzo(g,h,i)perylene
Concen: 5.746 ng
RT: 17.327 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF134565.D
Acq: 02 Aug 2023 00:09

Tgt Ion:276 Resp: 7440

Ion	Ratio	Lower	Upper
276	100		
277	26.1	19.0	28.6
138	23.2	12.2	18.2#



Instrument :
BNA_F
ClientSampleId :
SB-10-(0.5-2.0)DL

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/12/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	DUP	SDG No.:	O3645
Lab Sample ID:	O3645-07	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	80.8
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG058571.D	1	07/18/23 09:45	08/02/23 09:59	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	410	U	180	410	ug/Kg
108-95-2	Phenol	210	U	92.0	210	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	210	U	110	210	ug/Kg
95-57-8	2-Chlorophenol	210	U	89.0	210	ug/Kg
95-48-7	2-Methylphenol	210	U	140	210	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	210	U	130	210	ug/Kg
98-86-2	Acetophenone	210	U	110	210	ug/Kg
65794-96-9	3+4-Methylphenols	410	U	130	410	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	98.9	U	73.0	98.9	ug/Kg
67-72-1	Hexachloroethane	210	U	91.0	210	ug/Kg
98-95-3	Nitrobenzene	210	U	93.0	210	ug/Kg
78-59-1	Isophorone	210	U	84.2	210	ug/Kg
88-75-5	2-Nitrophenol	210	U	120	210	ug/Kg
105-67-9	2,4-Dimethylphenol	210	U	120	210	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	210	U	140	210	ug/Kg
120-83-2	2,4-Dichlorophenol	210	U	96.6	210	ug/Kg
91-20-3	Naphthalene	210	U	100	210	ug/Kg
106-47-8	4-Chloroaniline	210	U	130	210	ug/Kg
87-68-3	Hexachlorobutadiene	210	U	100	210	ug/Kg
105-60-2	Caprolactam	410	U	140	410	ug/Kg
59-50-7	4-Chloro-3-methylphenol	210	U	100	210	ug/Kg
91-57-6	2-Methylnaphthalene	210	U	120	210	ug/Kg
77-47-4	Hexachlorocyclopentadiene	410	U	260	410	ug/Kg
88-06-2	2,4,6-Trichlorophenol	210	U	95.4	210	ug/Kg
95-95-4	2,4,5-Trichlorophenol	210	U	110	210	ug/Kg
92-52-4	1,1-Biphenyl	210	U	110	210	ug/Kg
91-58-7	2-Chloronaphthalene	210	U	100	210	ug/Kg
88-74-4	2-Nitroaniline	210	U	120	210	ug/Kg
131-11-3	Dimethylphthalate	210	U	110	210	ug/Kg
208-96-8	Acenaphthylene	210	U	110	210	ug/Kg
606-20-2	2,6-Dinitrotoluene	210	U	110	210	ug/Kg

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/12/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	DUP	SDG No.:	O3645
Lab Sample ID:	O3645-07	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	80.8
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG058571.D	1	07/18/23 09:45	08/02/23 09:59	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
99-09-2	3-Nitroaniline	210	U	120	210	ug/Kg
83-32-9	Acenaphthene	210	U	99.3	210	ug/Kg
51-28-5	2,4-Dinitrophenol	410	U	220	410	ug/Kg
100-02-7	4-Nitrophenol	410	U	140	410	ug/Kg
132-64-9	Dibenzofuran	210	U	95.1	210	ug/Kg
121-14-2	2,4-Dinitrotoluene	210	U	120	210	ug/Kg
84-66-2	Diethylphthalate	210	U	110	210	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	210	U	110	210	ug/Kg
86-73-7	Fluorene	210	U	100	210	ug/Kg
100-01-6	4-Nitroaniline	210	U	130	210	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	410	U	110	410	ug/Kg
86-30-6	n-Nitrosodiphenylamine	210	U	120	210	ug/Kg
101-55-3	4-Bromophenyl-phenylether	210	U	120	210	ug/Kg
118-74-1	Hexachlorobenzene	210	U	120	210	ug/Kg
1912-24-9	Atrazine	210	U	120	210	ug/Kg
87-86-5	Pentachlorophenol	410	U	140	410	ug/Kg
85-01-8	Phenanthrene	210	U	110	210	ug/Kg
120-12-7	Anthracene	210	U	130	210	ug/Kg
86-74-8	Carbazole	210	U	110	210	ug/Kg
84-74-2	Di-n-butylphthalate	210	U	130	210	ug/Kg
206-44-0	Fluoranthene	210	U	120	210	ug/Kg
129-00-0	Pyrene	210	U	100	210	ug/Kg
85-68-7	Butylbenzylphthalate	210	U	130	210	ug/Kg
91-94-1	3,3-Dichlorobenzidine	410	U	200	410	ug/Kg
56-55-3	Benzo(a)anthracene	210	U	100	210	ug/Kg
218-01-9	Chrysene	210	U	110	210	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	210	U	140	210	ug/Kg
117-84-0	Di-n-octyl phthalate	410	U	150	410	ug/Kg
205-99-2	Benzo(b)fluoranthene	210	U	99.3	210	ug/Kg
207-08-9	Benzo(k)fluoranthene	210	U	110	210	ug/Kg
50-32-8	Benzo(a)pyrene	210	U	120	210	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	210	U	130	210	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	210	U	120	210	ug/Kg

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/12/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	DUP	SDG No.:	O3645
Lab Sample ID:	O3645-07	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	80.8
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG058571.D	1	07/18/23 09:45	08/02/23 09:59	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
191-24-2	Benzo(g,h,i)perylene	210	U	110	210	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	210	U	110	210	ug/Kg
123-91-1	1,4-Dioxane	210	U	140	210	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	210	U	100	210	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	120		18 - 112	80%	SPK: 150
13127-88-3	Phenol-d6	118		15 - 107	78%	SPK: 150
4165-60-0	Nitrobenzene-d5	72.1		18 - 107	72%	SPK: 100
321-60-8	2-Fluorobiphenyl	70.9		20 - 109	71%	SPK: 100
118-79-6	2,4,6-Tribromophenol	97.4		10 - 110	65%	SPK: 150
1718-51-0	Terphenyl-d14	76.5		14 - 112	76%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	54100	7.811			
1146-65-2	Naphthalene-d8	235000	10.614			
15067-26-2	Acenaphthene-d10	165000	14.462			
1517-22-2	Phenanthrene-d10	370000	17.206			
1719-03-5	Chrysene-d12	322000	21.448			
1520-96-3	Perylene-d12	402000	24.521			
TENTATIVE IDENTIFIED COMPOUNDS						
000057-10-3	n-Hexadecanoic acid	130	J		18.1	ug/Kg

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG080223\
Data File : BG058571.D
Acq On : 2 Aug 2023 9:59
Operator : MA/JU
Sample : 03645-07
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
DUP

Quant Time: Aug 02 12:45:20 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 28 22:29:07 2023
Response via : Initial Calibration

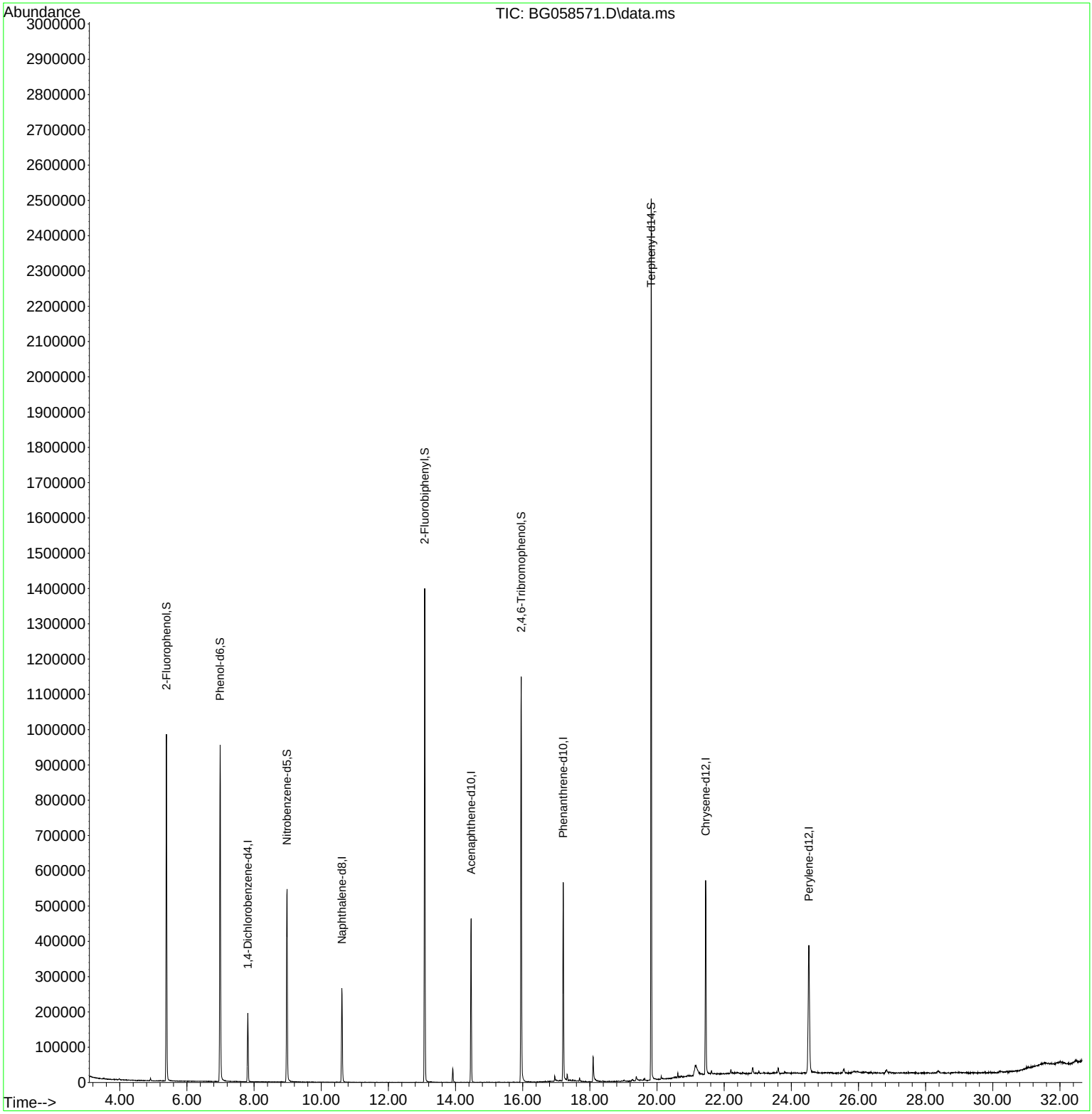
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.811	152	54082	20.000	ng	0.00
21) Naphthalene-d8	10.614	136	234812	20.000	ng	0.00
39) Acenaphthene-d10	14.462	164	164688	20.000	ng	0.00
64) Phenanthrene-d10	17.206	188	370089	20.000	ng	0.00
76) Chrysene-d12	21.448	240	322252	20.000	ng	0.00
86) Perylene-d12	24.521	264	402408	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.391	112	424891	120.082	ng	0.00
7) Phenol-d6	6.989	99	579545	117.709	ng	0.00
23) Nitrobenzene-d5	8.981	82	344533	72.080	ng	0.00
42) 2,4,6-Tribromophenol	15.955	330	262786	97.351	ng	0.00
45) 2-Fluorobiphenyl	13.082	172	778631	70.852	ng	0.00
79) Terphenyl-d14	19.827	244	1310593	76.481	ng	0.00
Target Compounds						Qvalue

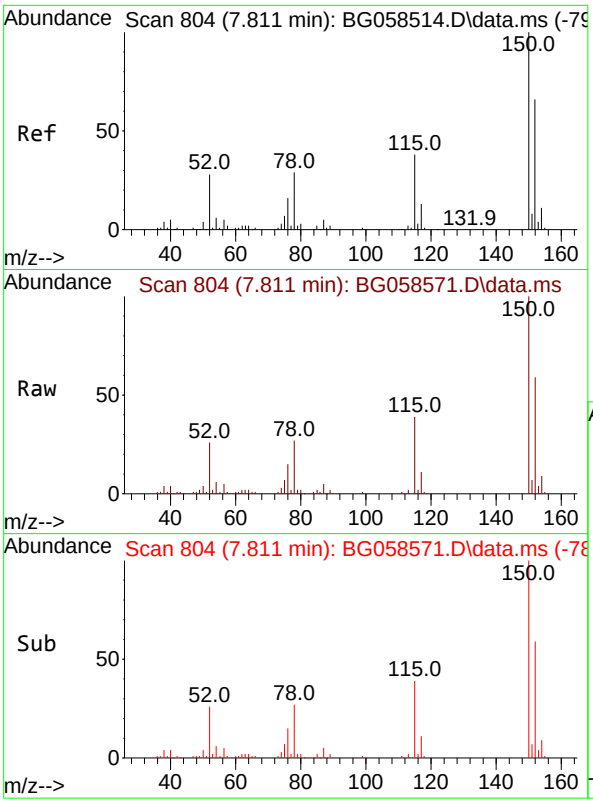
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG080223\
Data File : BG058571.D
Acq On : 2 Aug 2023 9:59
Operator : MA/JU
Sample : 03645-07
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
DUP

Quant Time: Aug 02 12:45:20 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 28 22:29:07 2023
Response via : Initial Calibration



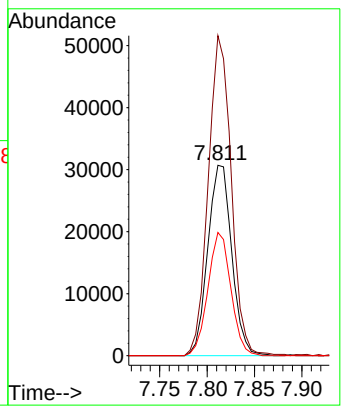


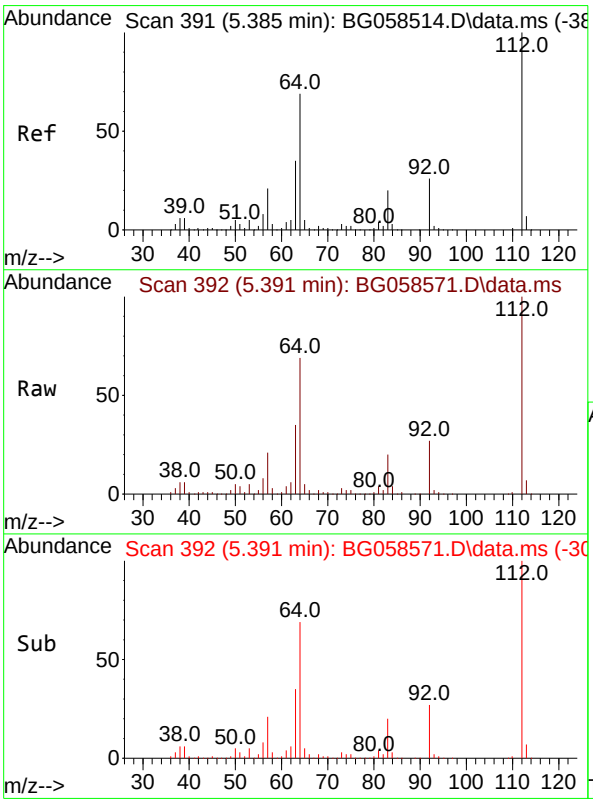
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.811 min Scan# 8
Delta R.T. 0.000 min
Lab File: BG058571.D
Acq: 2 Aug 2023 9:59

Instrument :
BNA_G
ClientSampleId :
DUP

Tgt Ion:152 Resp: 54082

Ion	Ratio	Lower	Upper
152	100		
150	168.1	120.5	180.7
115	64.8	45.9	68.9

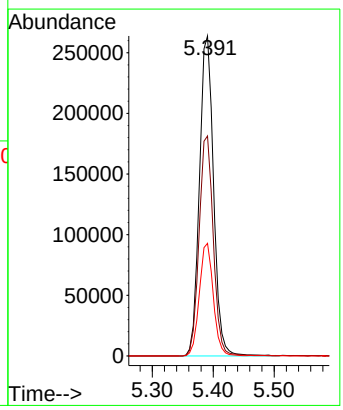


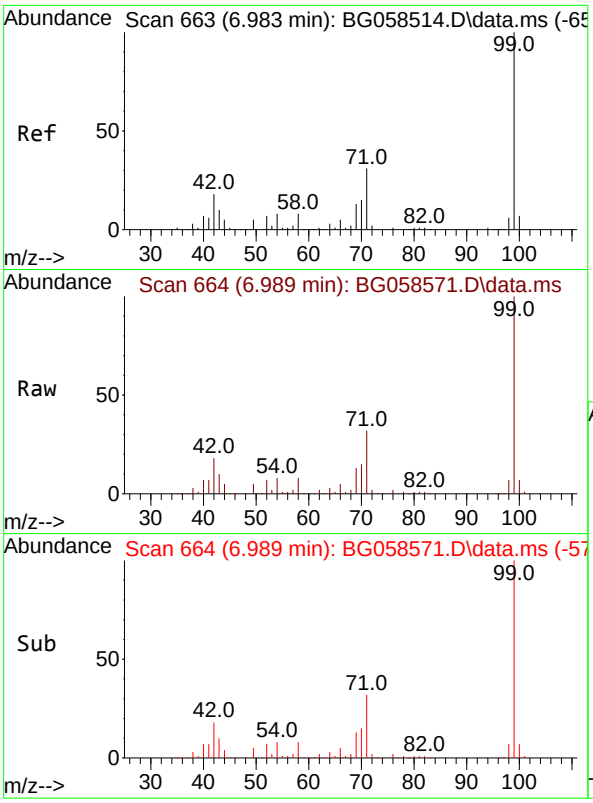


#5
2-Fluorophenol
Concen: 120.082 ng
RT: 5.391 min Scan# 392
Delta R.T. 0.006 min
Lab File: BG058571.D
Acq: 2 Aug 2023 9:59

Tgt Ion:112 Resp: 424891

Ion	Ratio	Lower	Upper
112	100		
64	68.7	55.3	82.9
63	35.2	28.3	42.5



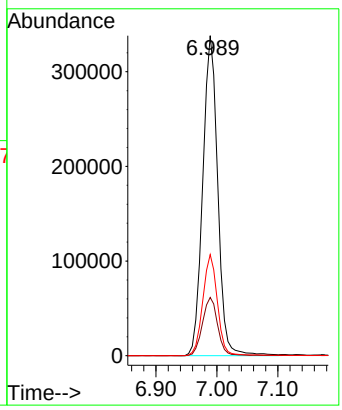


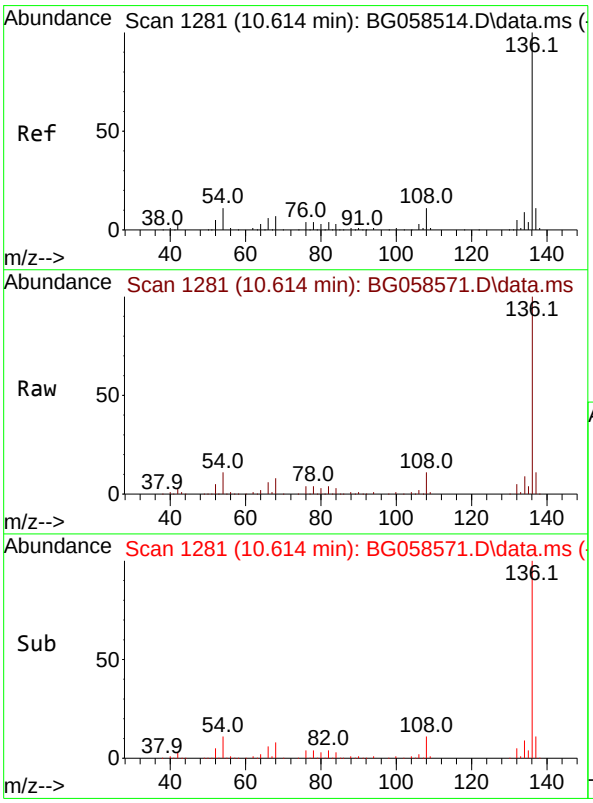
#7
Phenol-d6
Concen: 117.709 ng
RT: 6.989 min Scan# 6
Delta R.T. 0.006 min
Lab File: BG058571.D
Acq: 2 Aug 2023 9:59

Instrument :
BNA_G
ClientSampleId :
DUP

Tgt Ion: 99 Resp: 579545

Ion	Ratio	Lower	Upper
99	100		
42	18.2	14.6	21.8
71	31.6	25.0	37.4

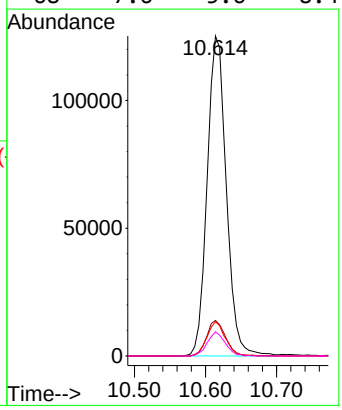


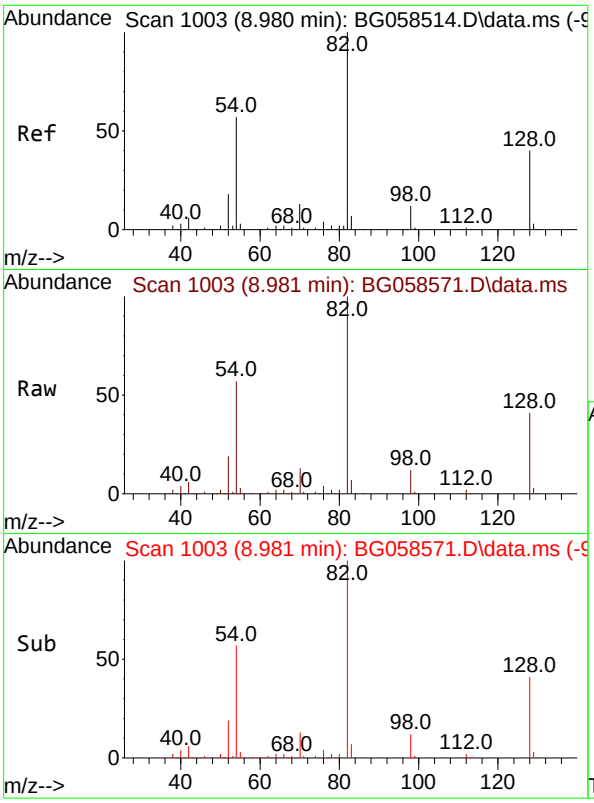


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.614 min Scan# 1281
Delta R.T. 0.000 min
Lab File: BG058571.D
Acq: 2 Aug 2023 9:59

Tgt Ion:136 Resp: 234812

Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.6	13.0
54	10.7	8.9	13.3
68	7.6	5.6	8.4



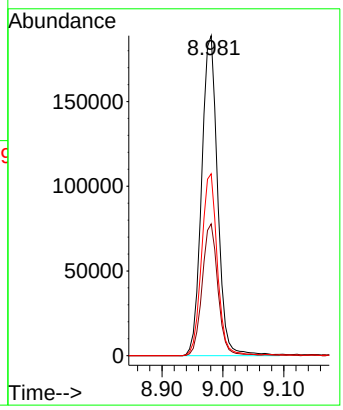


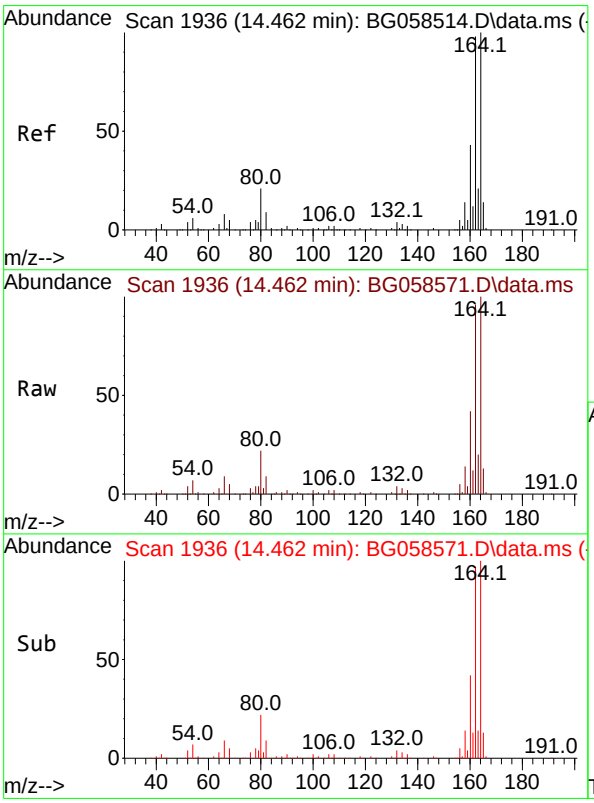
#23
Nitrobenzene-d5
Concen: 72.080 ng
RT: 8.981 min Scan# 1
Delta R.T. 0.000 min
Lab File: BG058571.D
Acq: 2 Aug 2023 9:59

Instrument :
BNA_G
ClientSampleId :
DUP

Tgt Ion: 82 Resp: 344533

Ion	Ratio	Lower	Upper
82	100		
128	41.2	32.2	48.2
54	56.8	46.0	69.0

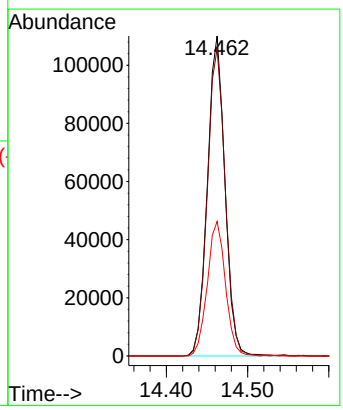


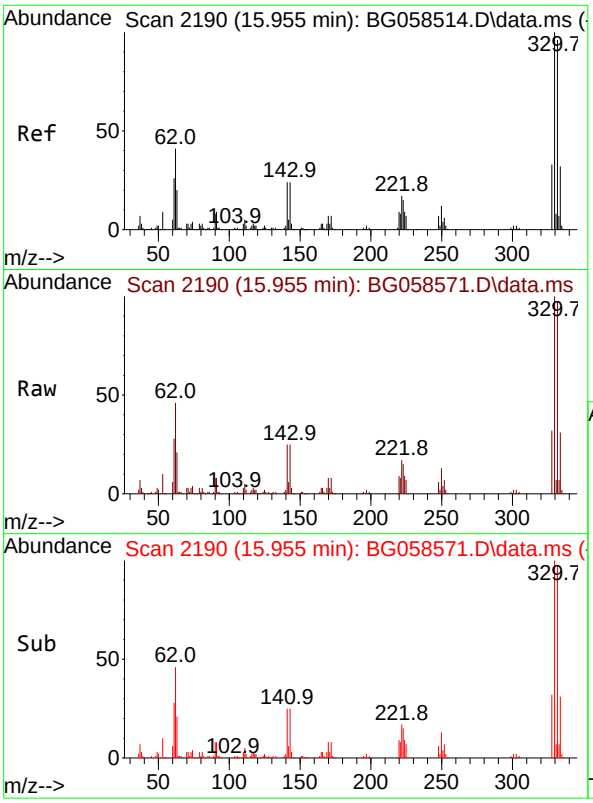


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.462 min Scan# 1936
Delta R.T. 0.000 min
Lab File: BG058571.D
Acq: 2 Aug 2023 9:59

Tgt Ion:164 Resp: 164688

Ion	Ratio	Lower	Upper
164	100		
162	96.1	78.3	117.5
160	42.1	34.1	51.1



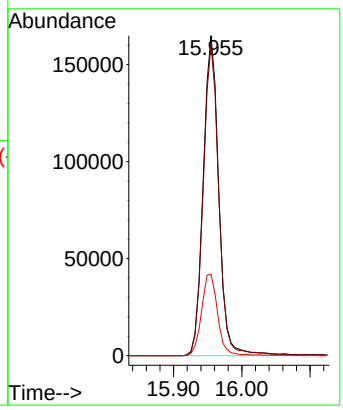


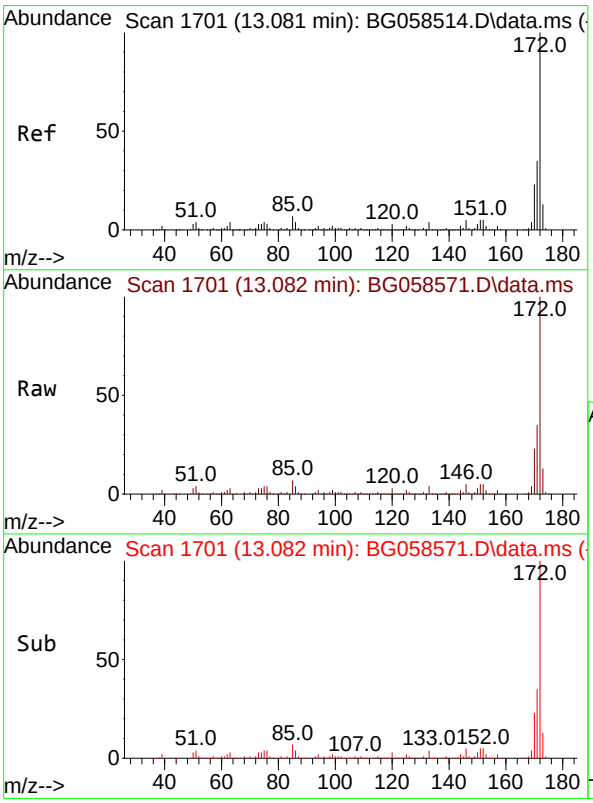
#42
2,4,6-Tribromophenol
Concen: 97.351 ng
RT: 15.955 min Scan# 21
Delta R.T. 0.000 min
Lab File: BG058571.D
Acq: 2 Aug 2023 9:59

Instrument :
BNA_G
ClientSampleId :
DUP

Tgt Ion:330 Resp: 262786

Ion	Ratio	Lower	Upper
330	100		
332	97.3	77.5	116.3
141	26.2	20.7	31.1

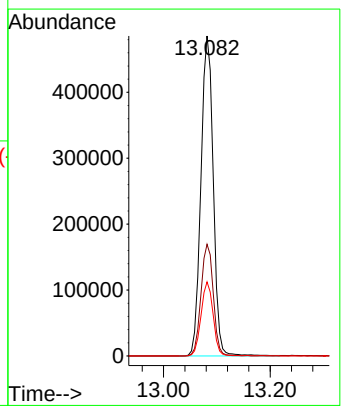


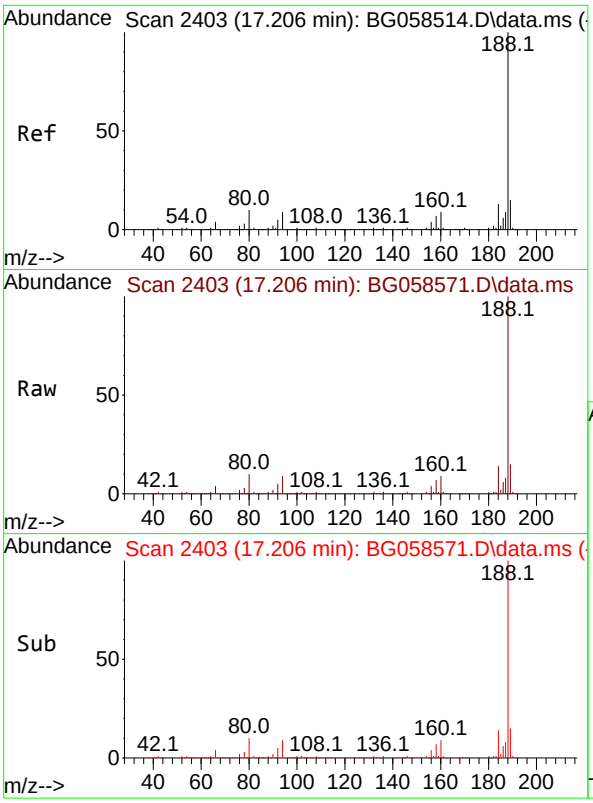


#45
2-Fluorobiphenyl
Concen: 70.852 ng
RT: 13.082 min Scan# 1701
Delta R.T. 0.000 min
Lab File: BG058571.D
Acq: 2 Aug 2023 9:59

Tgt Ion:172 Resp: 778631

Ion	Ratio	Lower	Upper
172	100		
171	34.9	28.0	42.0
170	23.2	18.4	27.6



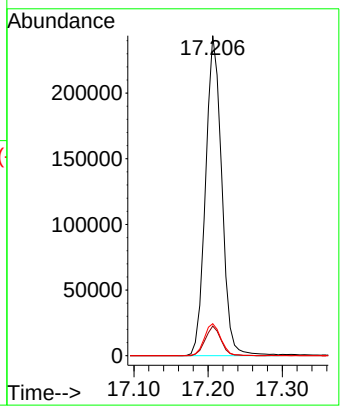


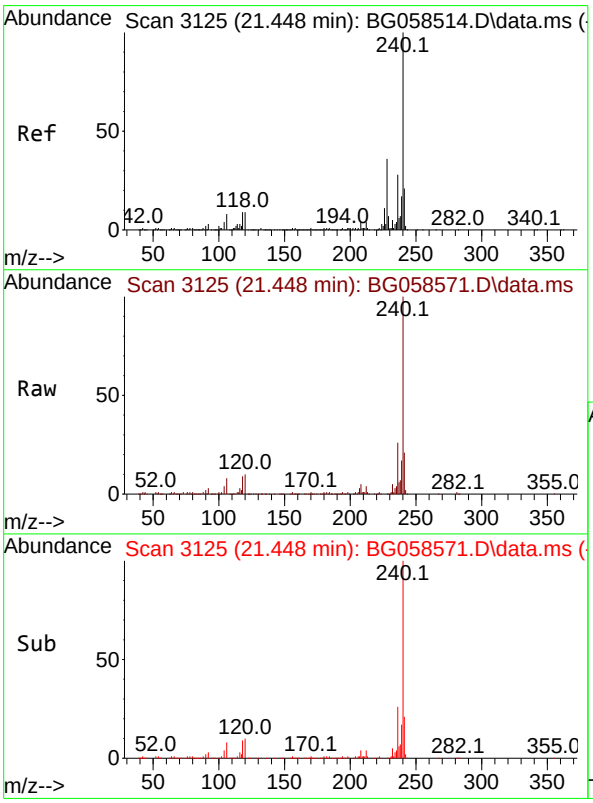
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.206 min Scan# 24
Delta R.T. 0.000 min
Lab File: BG058571.D
Acq: 2 Aug 2023 9:59

Instrument :
BNA_G
ClientSampleId :
DUP

Tgt Ion:188 Resp: 370089

Ion	Ratio	Lower	Upper
188	100		
94	9.2	7.0	10.6
80	10.0	8.1	12.1

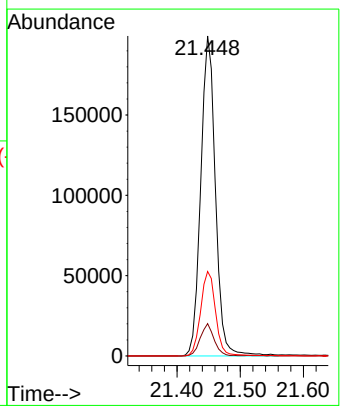


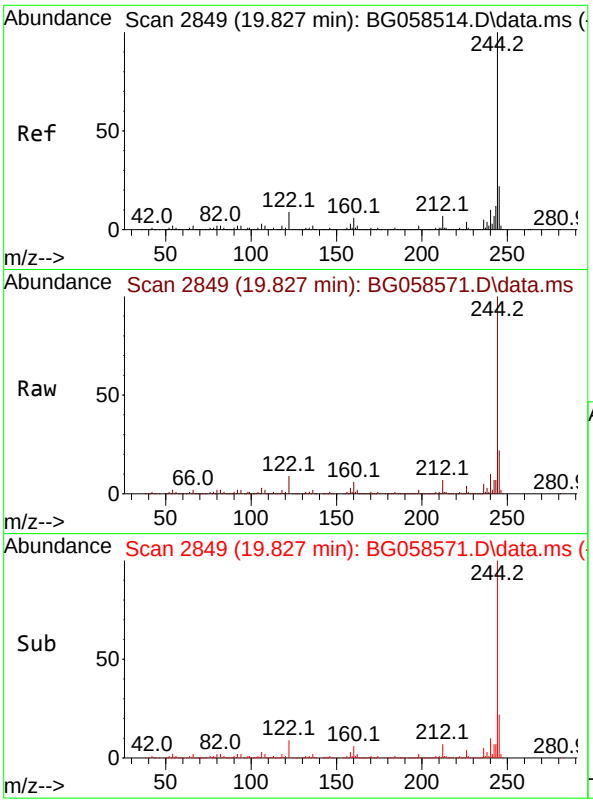


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.448 min Scan# 3125
Delta R.T. 0.000 min
Lab File: BG058571.D
Acq: 2 Aug 2023 9:59

Tgt Ion:240 Resp: 322252

Ion	Ratio	Lower	Upper
240	100		
120	10.1	7.4	11.0
236	26.4	22.2	33.4



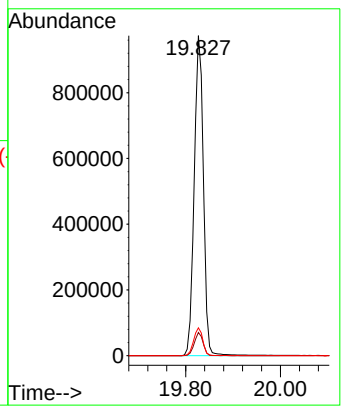


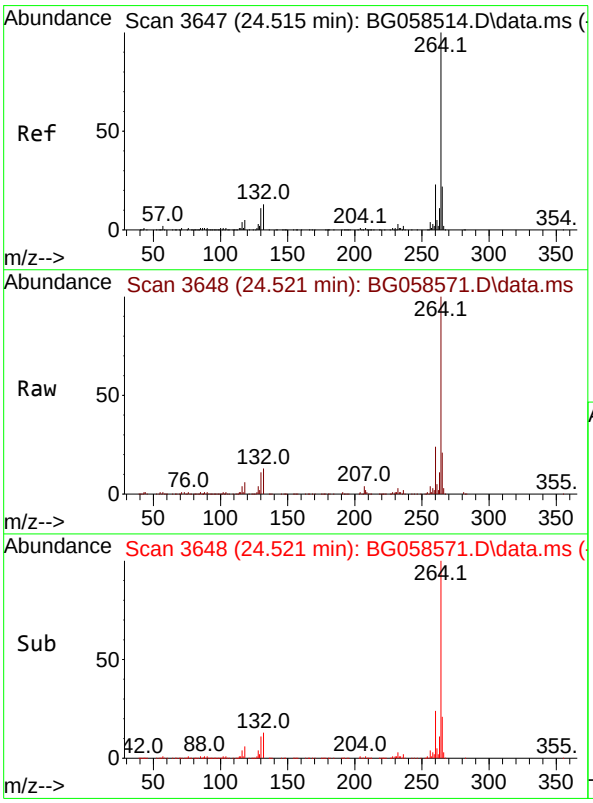
#79
Terphenyl-d14
Concen: 76.481 ng
RT: 19.827 min Scan# 2
Delta R.T. 0.000 min
Lab File: BG058571.D
Acq: 2 Aug 2023 9:59

Instrument :
BNA_G
ClientSampleId :
DUP

Tgt Ion:244 Resp: 1310593

Ion	Ratio	Lower	Upper
244	100		
212	7.3	5.9	8.9
122	8.7	6.8	10.2

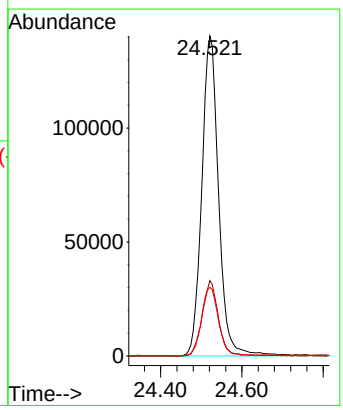




#86
Perylene-d12
Concen: 20.000 ng
RT: 24.521 min Scan# 3648
Delta R.T. 0.006 min
Lab File: BG058571.D
Acq: 2 Aug 2023 9:59

Tgt Ion:264 Resp: 402408

Ion	Ratio	Lower	Upper
264	100		
260	23.5	18.4	27.6
265	21.4	17.9	26.9



Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG080223\
Data File : BG058571.D
Acq On : 2 Aug 2023 9:59
Operator : MA/JU
Sample : 03645-07
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
DUP

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG072823.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BG058571.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.391	385	392	407	rBV	982301	1576117	47.77%	9.738%
2	6.989	656	664	677	rBV	954011	1634293	49.53%	10.098%
3	7.811	797	804	811	rBV	194425	328678	9.96%	2.031%
4	8.981	994	1003	1016	rBV	546758	995508	30.17%	6.151%
5	10.614	1273	1281	1295	rBV	265846	491897	14.91%	3.039%
6	13.082	1692	1701	1717	rBV	1399688	2211572	67.03%	13.664%
7	13.916	1838	1843	1851	rBV	39187	63250	1.92%	0.391%
8	14.462	1929	1936	1945	rBV	463778	705928	21.39%	4.362%
9	15.955	2183	2190	2212	rBV	1149776	1861083	56.40%	11.499%
10	17.206	2397	2403	2416	rBV	562440	868162	26.31%	5.364%
11	18.093	2549	2554	2565	rBV	71246	132714	4.02%	0.820%
12	19.827	2843	2849	2861	rBV	2497585	3299553	100.00%	20.387%
13	21.137	3063	3072	3073	rBV8	26639	54544	1.65%	0.337%
14	21.448	3118	3125	3135	rBV2	550769	901573	27.32%	5.570%
15	23.605	3488	3492	3501	rVB5	16719	37987	1.15%	0.235%
16	24.521	3637	3648	3664	rBV2	361362	1022103	30.98%	6.315%

Sum of corrected areas: 16184962

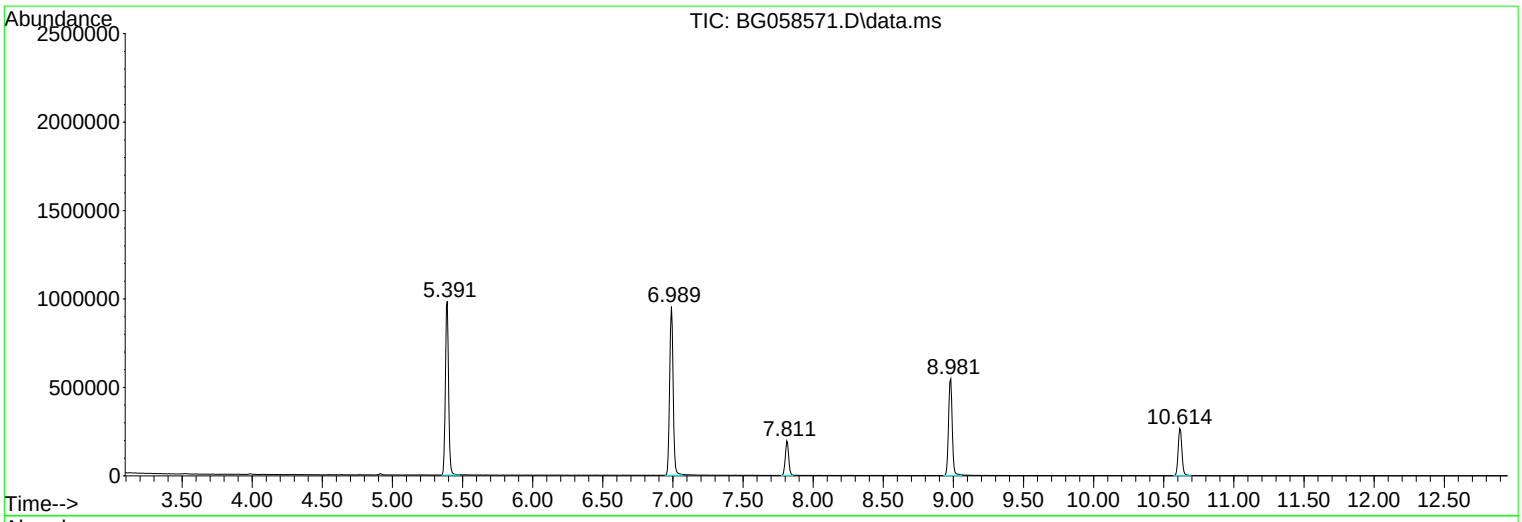
Sample Results: **BG058571.D**

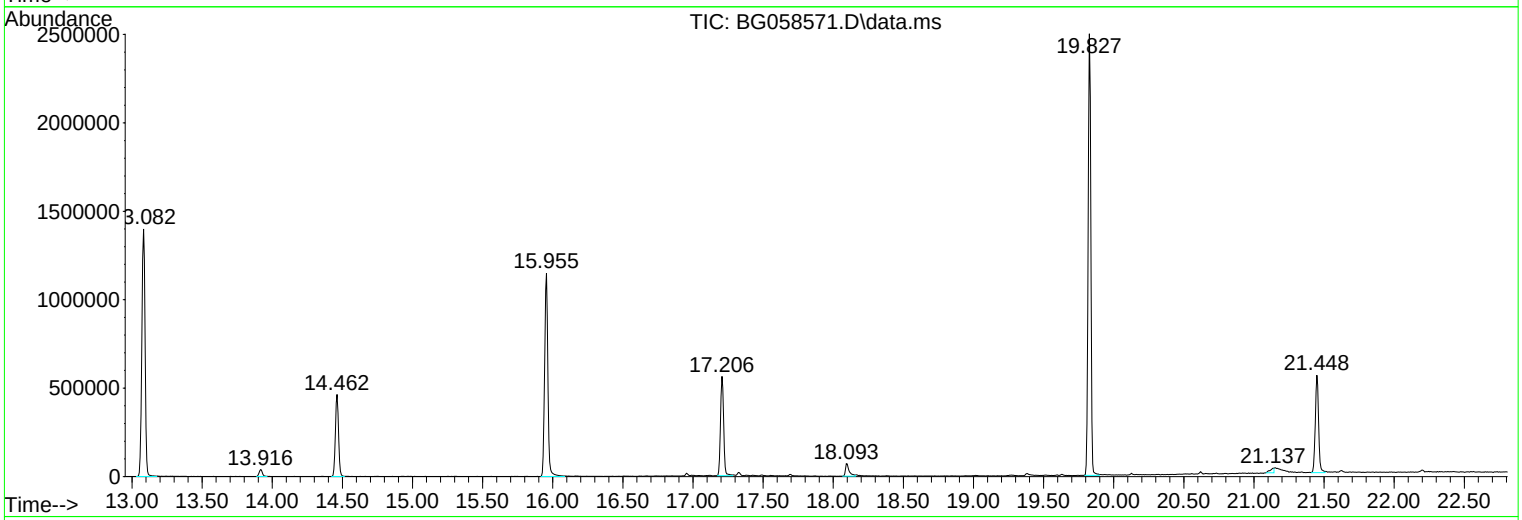
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG080223\
Data File : BG058571.D
Acq On : 2 Aug 2023 9:59
Operator : MA/JU
Sample : 03645-07
Misc :
ALS Vial : 4 Sample Multiplier: 1

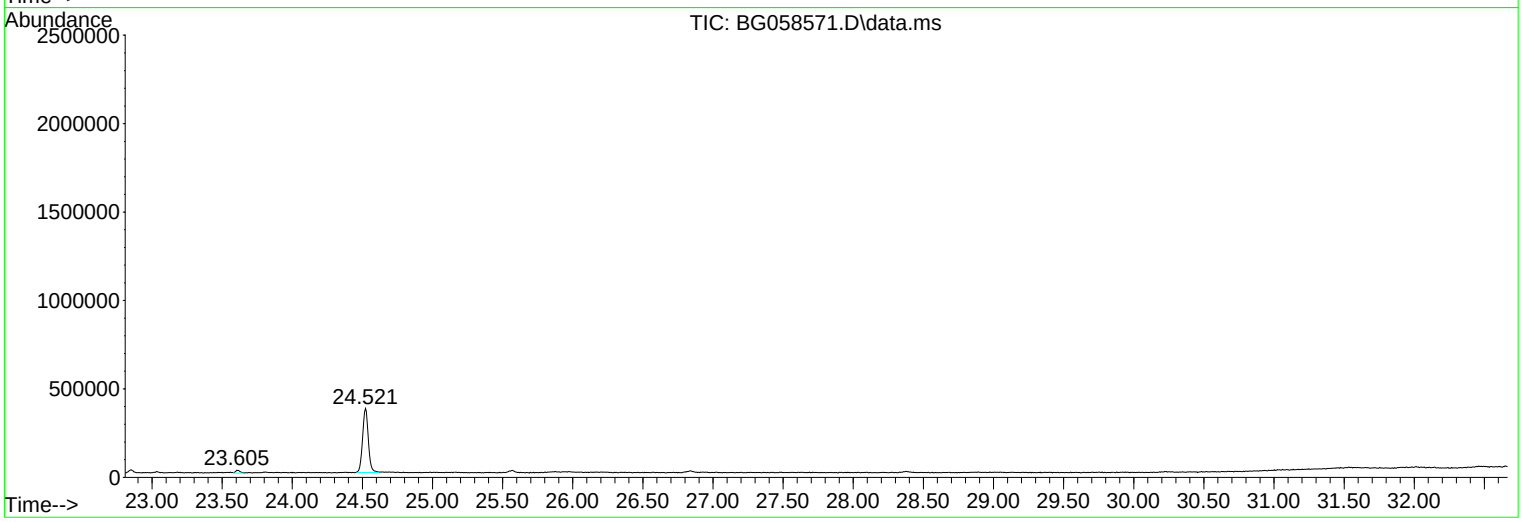
Instrument :
BNA_G
ClientSampleId :
DUP

Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG080223\
Data File : BG058571.D
Acq On : 2 Aug 2023 9:59
Operator : MA/JU
Sample : 03645-07
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
DUP

Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

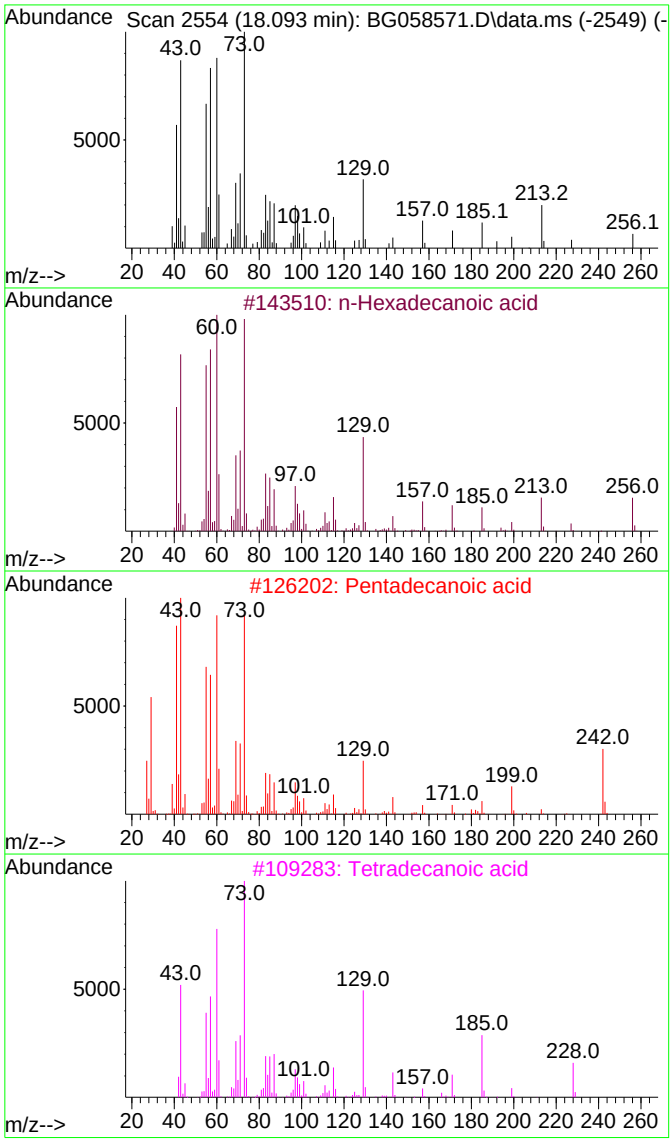
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

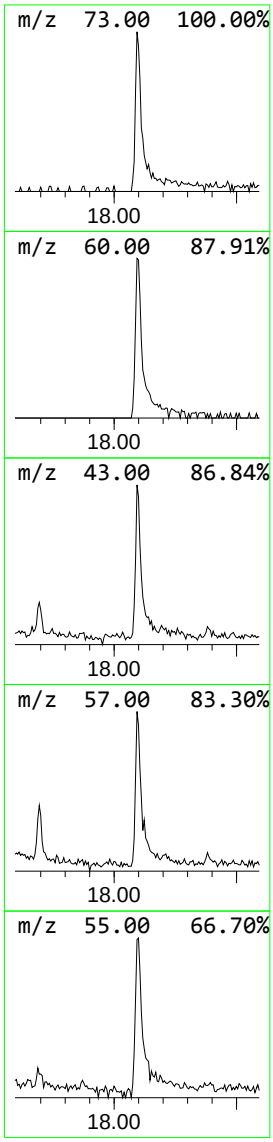
****

Peak Number 1 n-Hexadecanoic acid Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.093	3.06 ng	132714	Phenanthrene-d10	17.206

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	97
2	Pentadecanoic acid	242	C15H30O2	001002-84-2	86
3	Tetradecanoic acid	228	C14H28O2	000544-63-8	72
4	Tridecanoic acid	214	C13H26O2	000638-53-9	64
5	Nonanoic acid	158	C9H18O2	000112-05-0	60





Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG080223\
Data File : BG058571.D
Acq On : 2 Aug 2023 9:59
Operator : MA/JU
Sample : 03645-07
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
DUP

Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
n-Hexadecanoic ...	18.093	3.1	ng	132714	4	17.206	868162	20.0

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/12/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	RINSATE-BLANK	SDG No.:	O3645
Lab Sample ID:	O3645-08	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF134528.D	1	07/17/23 10:17	07/28/23 22:17	PB154218

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	10.0	U	3.30	10.0	ug/L
108-95-2	Phenol	5.00	U	1.50	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	5.00	U	1.70	5.00	ug/L
95-57-8	2-Chlorophenol	5.00	U	1.40	5.00	ug/L
95-48-7	2-Methylphenol	5.00	U	2.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	5.00	UQ	2.30	5.00	ug/L
98-86-2	Acetophenone	5.00	U	1.80	5.00	ug/L
65794-96-9	3+4-Methylphenols	10.0	U	2.20	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	2.50	U	2.00	2.50	ug/L
67-72-1	Hexachloroethane	5.00	UQ	1.60	5.00	ug/L
98-95-3	Nitrobenzene	5.00	U	1.70	5.00	ug/L
78-59-1	Isophorone	5.00	U	1.70	5.00	ug/L
88-75-5	2-Nitrophenol	5.00	U	2.40	5.00	ug/L
105-67-9	2,4-Dimethylphenol	5.00	U	3.00	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	5.00	U	2.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	5.00	U	1.70	5.00	ug/L
91-20-3	Naphthalene	5.00	U	1.70	5.00	ug/L
106-47-8	4-Chloroaniline	5.00	U	2.50	5.00	ug/L
87-68-3	Hexachlorobutadiene	5.00	U	1.90	5.00	ug/L
105-60-2	Caprolactam	10.0	U	3.40	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	5.00	U	1.80	5.00	ug/L
91-57-6	2-Methylnaphthalene	5.00	U	2.20	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	10.0	U	5.70	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	5.00	U	1.50	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	5.00	U	1.60	5.00	ug/L
92-52-4	1,1-Biphenyl	5.00	U	1.80	5.00	ug/L
91-58-7	2-Chloronaphthalene	5.00	U	1.60	5.00	ug/L
88-74-4	2-Nitroaniline	5.00	U	2.40	5.00	ug/L
131-11-3	Dimethylphthalate	5.00	U	1.90	5.00	ug/L
208-96-8	Acenaphthylene	5.00	U	2.10	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	5.00	U	2.10	5.00	ug/L

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/12/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	RINSATE-BLANK	SDG No.:	O3645
Lab Sample ID:	O3645-08	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF134528.D	1	07/17/23 08:30	07/28/23 22:17	PB154218

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	5.00	U	2.40	5.00	ug/L
83-32-9	Acenaphthene	5.00	U	1.70	5.00	ug/L
51-28-5	2,4-Dinitrophenol	10.0	U	5.50	10.0	ug/L
100-02-7	4-Nitrophenol	10.0	UQ	2.80	10.0	ug/L
132-64-9	Dibenzofuran	5.00	U	1.60	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	5.00	U	2.50	5.00	ug/L
84-66-2	Diethylphthalate	5.00	U	2.10	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	5.00	U	2.20	5.00	ug/L
86-73-7	Fluorene	5.00	U	2.00	5.00	ug/L
100-01-6	4-Nitroaniline	5.00	U	2.30	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	10.0	U	1.80	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	5.00	U	2.00	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	5.00	U	2.00	5.00	ug/L
118-74-1	Hexachlorobenzene	5.00	U	1.90	5.00	ug/L
1912-24-9	Atrazine	5.00	U	3.50	5.00	ug/L
87-86-5	Pentachlorophenol	10.0	U	2.60	10.0	ug/L
85-01-8	Phenanthrene	5.00	U	2.00	5.00	ug/L
120-12-7	Anthracene	5.00	U	2.30	5.00	ug/L
86-74-8	Carbazole	5.00	U	1.70	5.00	ug/L
84-74-2	Di-n-butylphthalate	5.00	U	2.40	5.00	ug/L
206-44-0	Fluoranthene	5.00	U	2.10	5.00	ug/L
129-00-0	Pyrene	5.00	U	1.90	5.00	ug/L
85-68-7	Butylbenzylphthalate	5.00	UQ	2.80	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	10.0	U	5.40	10.0	ug/L
56-55-3	Benzo(a)anthracene	5.00	U	1.50	5.00	ug/L
218-01-9	Chrysene	5.00	U	1.60	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	5.00	U	2.90	5.00	ug/L
117-84-0	Di-n-octyl phthalate	10.0	U	3.10	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	5.00	U	1.50	5.00	ug/L
207-08-9	Benzo(k)fluoranthene	5.00	U	1.90	5.00	ug/L
50-32-8	Benzo(a)pyrene	5.00	U	2.70	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	5.00	U	2.10	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	5.00	U	2.00	5.00	ug/L

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/12/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	RINSATE-BLANK	SDG No.:	O3645
Lab Sample ID:	O3645-08	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF134528.D	1	07/17/23 08:30	07/28/23 22:17	PB154218

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
191-24-2	Benzo(g,h,i)perylene	5.00	U	1.90	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	5.00	U	2.10	5.00	ug/L
123-91-1	1,4-Dioxane	5.00	U	2.40	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	5.00	U	1.30	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	54.5		10 - 139	36%	SPK: 150
13127-88-3	Phenol-d6	33.2		10 - 134	22%	SPK: 150
4165-60-0	Nitrobenzene-d5	142	*	49 - 133	142%	SPK: 100
321-60-8	2-Fluorobiphenyl	93.9		52 - 132	94%	SPK: 100
118-79-6	2,4,6-Tribromophenol	98.3		45 - 141	66%	SPK: 150
1718-51-0	Terphenyl-d14	98.8		45 - 142	99%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	116000	6.828			
1146-65-2	Naphthalene-d8	262000	8.11			
15067-26-2	Acenaphthene-d10	137000	9.863			
1517-22-2	Phenanthrene-d10	224000	11.357			
1719-03-5	Chrysene-d12	150000	14.015			
1520-96-3	Perylene-d12	126000	15.515			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	3.10	AB		5.07	ug/L

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

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF072823\
Data File : BF134528.D
Acq On : 28 Jul 2023 22:17
Operator : CG\JU
Sample : 03645-08
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
RINSATE-BLANK

Quant Time: Jul 29 01:28:34 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF072423.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jul 27 12:16:03 2023
Response via : Initial Calibration

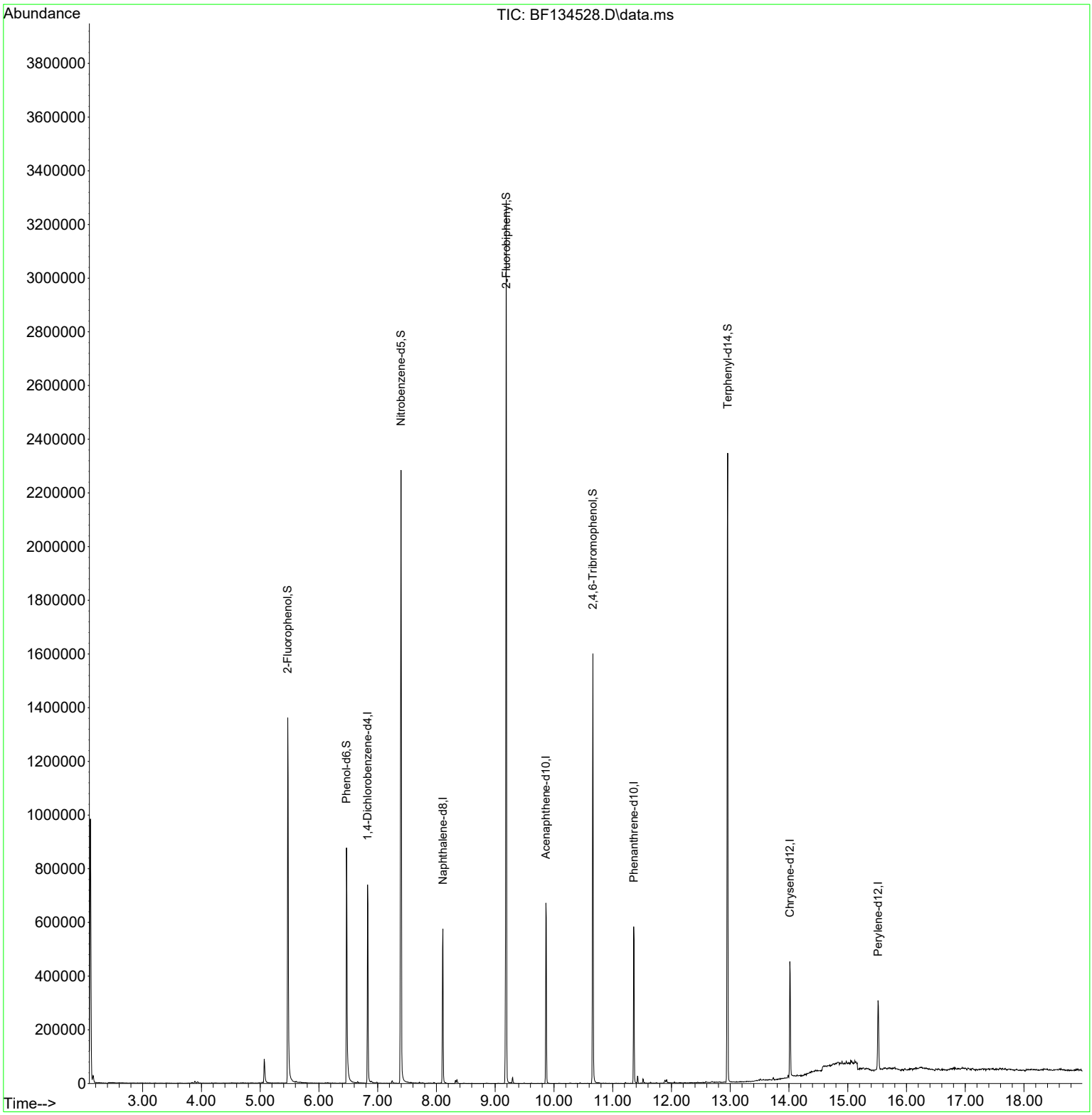
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.828	152	116133	20.000	ng	0.00
21) Naphthalene-d8	8.110	136	261936	20.000	ng	0.00
39) Acenaphthene-d10	9.863	164	136997	20.000	ng	0.00
64) Phenanthrene-d10	11.357	188	224038	20.000	ng	0.00
76) Chrysene-d12	14.015	240	149740	20.000	ng	0.00
86) Perylene-d12	15.515	264	125969	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.469	112	382918	54.477	ng	0.00
7) Phenol-d6	6.469	99	285690	33.174	ng	0.00
23) Nitrobenzene-d5	7.398	82	734439	141.861	ng	0.00
42) 2,4,6-Tribromophenol	10.663	330	191355	98.308	ng	0.00
45) 2-Fluorobiphenyl	9.186	172	979715	93.883	ng	0.00
79) Terphenyl-d14	12.957	244	847631	98.816	ng	0.00
Target Compounds						Qvalue

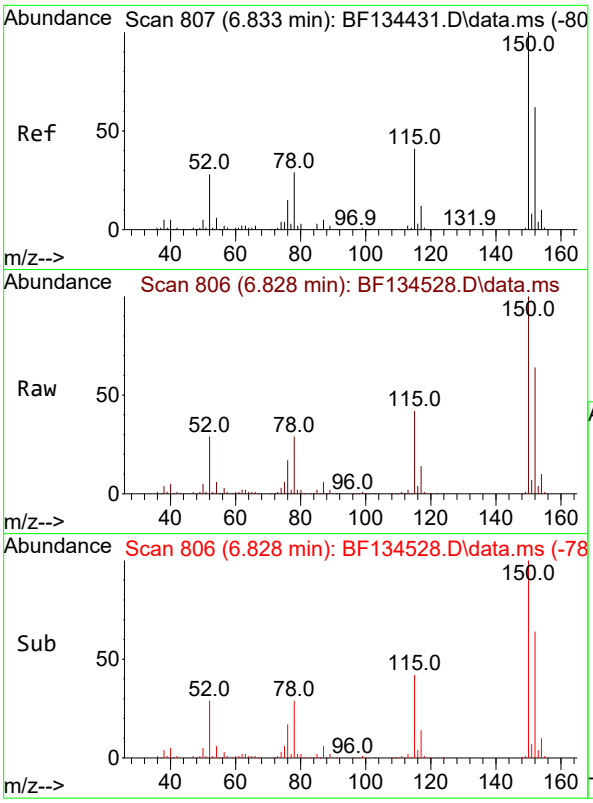
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF072823\
Data File : BF134528.D
Acq On : 28 Jul 2023 22:17
Operator : CG\JU
Sample : 03645-08
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
RINSATE-BLANK

Quant Time: Jul 29 01:28:34 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF072423.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jul 27 12:16:03 2023
Response via : Initial Calibration



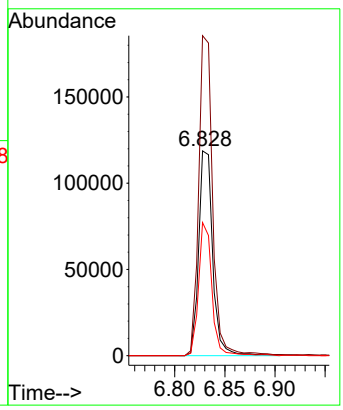


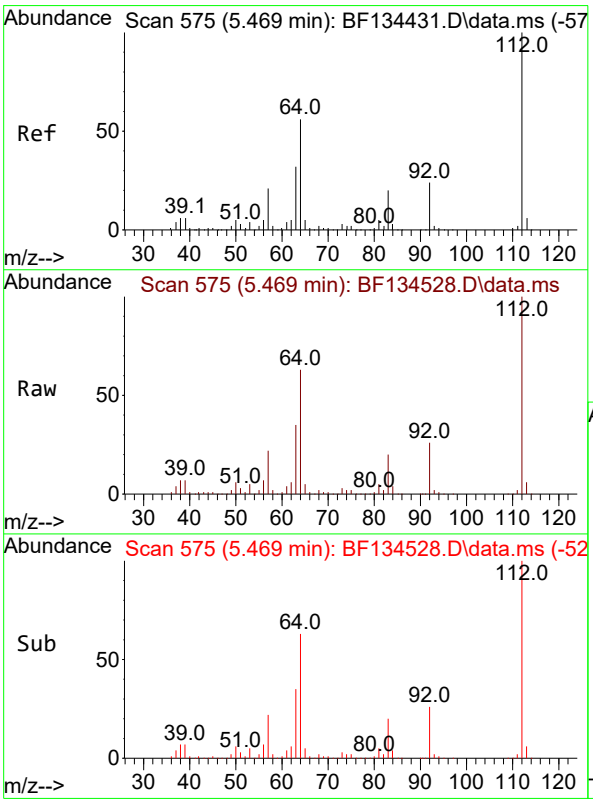
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.828 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF134528.D
Acq: 28 Jul 2023 22:17

Instrument :
BNA_F
ClientSampleId :
RINSATE-BLANK

Tgt Ion:152 Resp: 116133

Ion	Ratio	Lower	Upper
152	100		
150	156.2	128.3	192.5
115	65.0	52.4	78.6

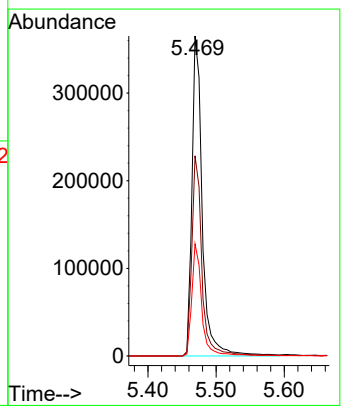


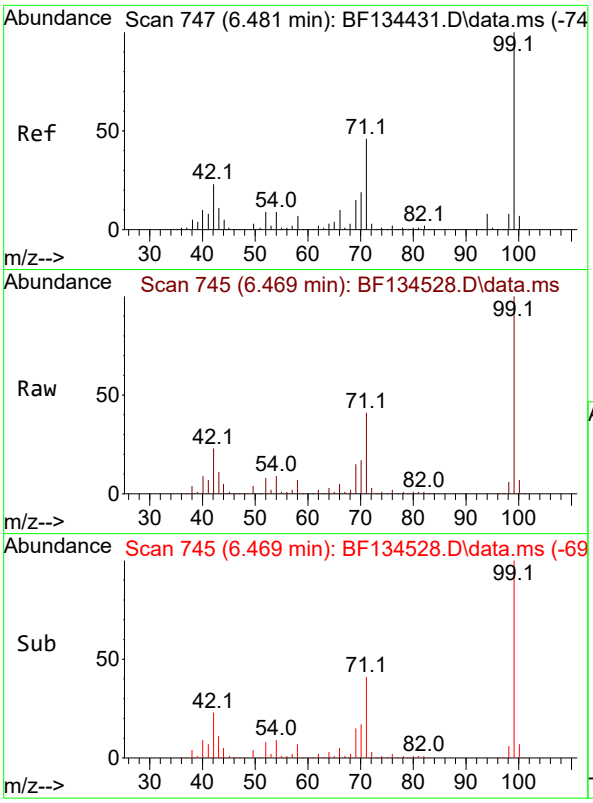


#5
2-Fluorophenol
Concen: 54.477 ng
RT: 5.469 min Scan# 575
Delta R.T. 0.006 min
Lab File: BF134528.D
Acq: 28 Jul 2023 22:17

Tgt Ion:112 Resp: 382918

Ion	Ratio	Lower	Upper
112	100		
64	62.6	44.9	67.3
63	35.0	25.4	38.0



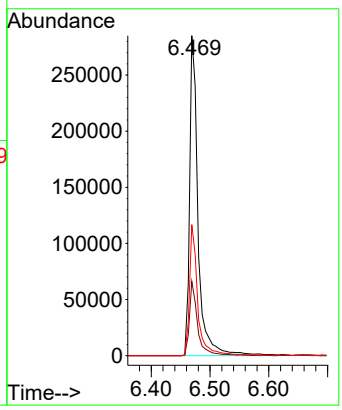


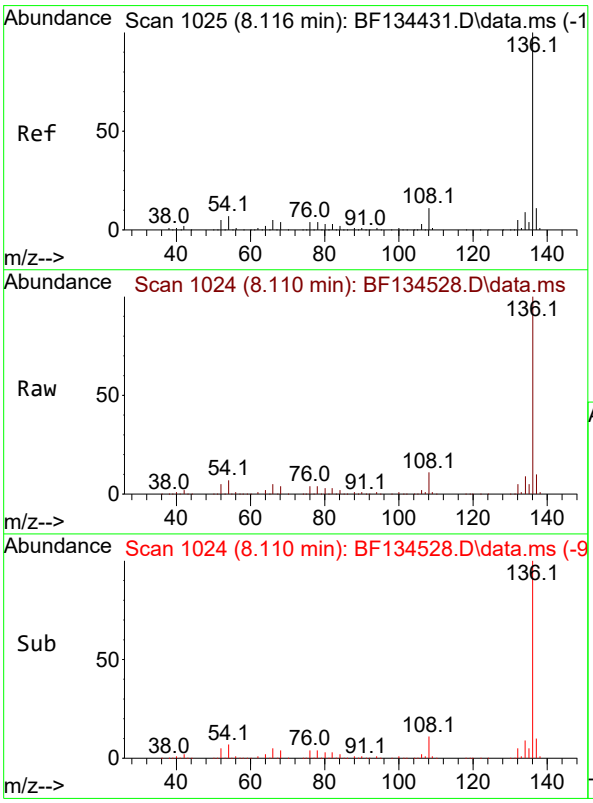
#7
Phenol-d6
Concen: 33.174 ng
RT: 6.469 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF134528.D
Acq: 28 Jul 2023 22:17

Instrument :
BNA_F
ClientSampleId :
RINSATE-BLANK

Tgt Ion: 99 Resp: 285690

Ion	Ratio	Lower	Upper
99	100		
42	23.2	18.7	28.1
71	41.0	36.4	54.6

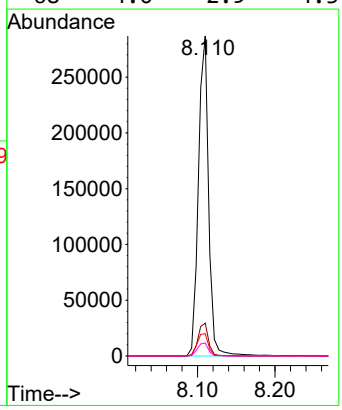


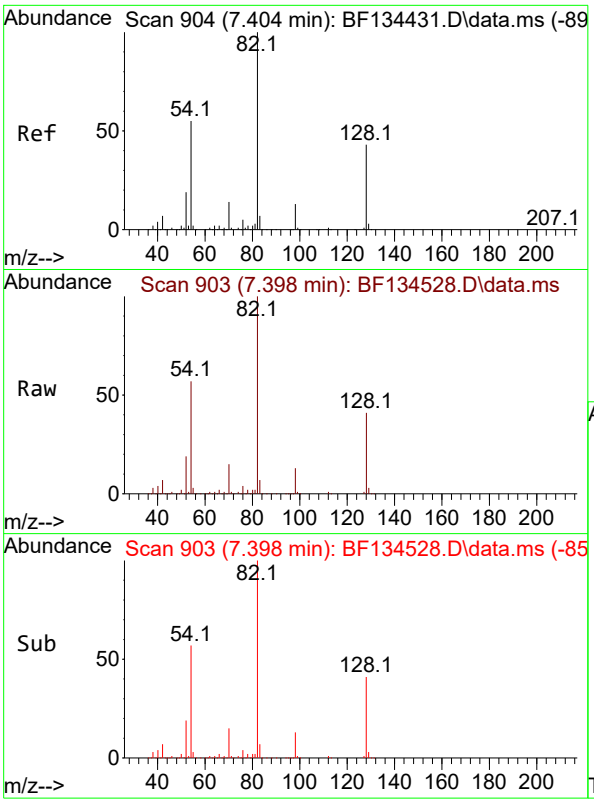


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.110 min Scan# 1024
Delta R.T. 0.006 min
Lab File: BF134528.D
Acq: 28 Jul 2023 22:17

Tgt Ion:136 Resp: 261936

Ion	Ratio	Lower	Upper
136	100		
137	10.3	8.4	12.6
54	6.9	5.2	7.8
68	4.0	2.9	4.3



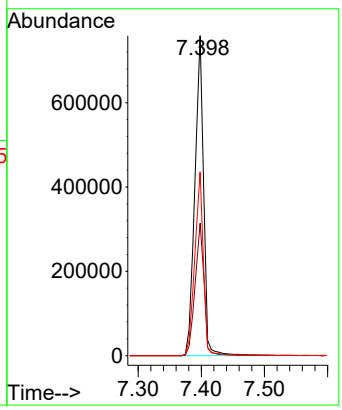


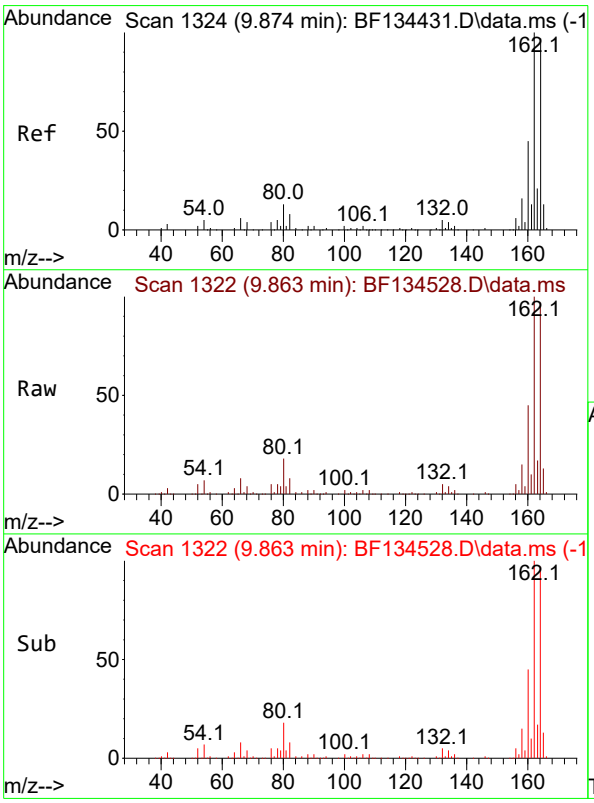
#23
Nitrobenzene-d5
Concen: 141.861 ng
RT: 7.398 min Scan# 9
Delta R.T. 0.006 min
Lab File: BF134528.D
Acq: 28 Jul 2023 22:17

Instrument :
BNA_F
ClientSampleId :
RINSATE-BLANK

Tgt Ion: 82 Resp: 734439

Ion	Ratio	Lower	Upper
82	100		
128	41.4	34.3	51.5
54	57.5	43.8	65.6

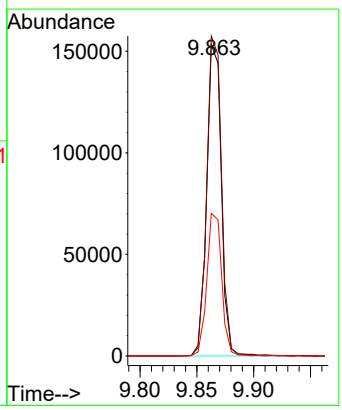


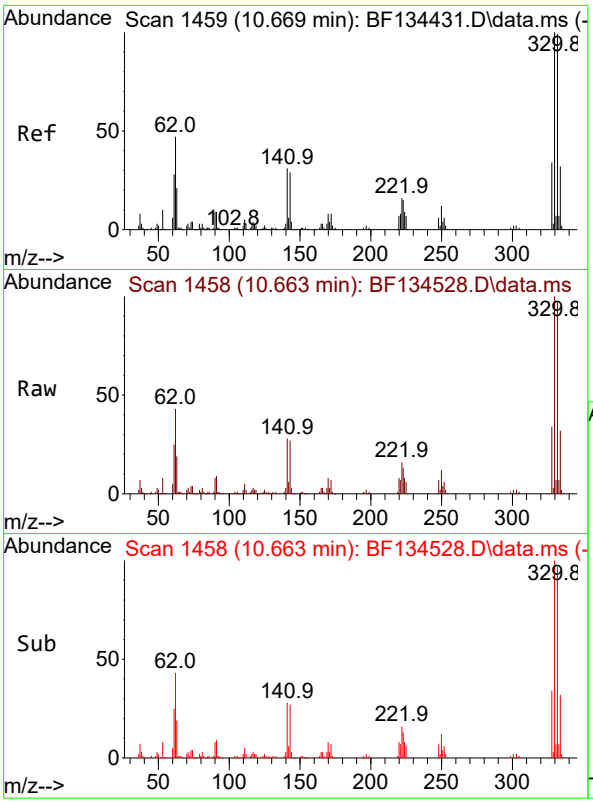


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.863 min Scan# 1322
Delta R.T. 0.000 min
Lab File: BF134528.D
Acq: 28 Jul 2023 22:17

Tgt Ion:164 Resp: 136997

Ion	Ratio	Lower	Upper
164	100		
162	102.8	82.6	123.8
160	45.8	37.2	55.8



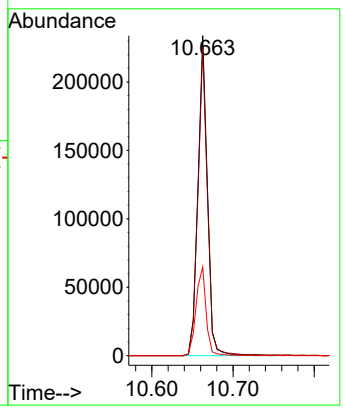


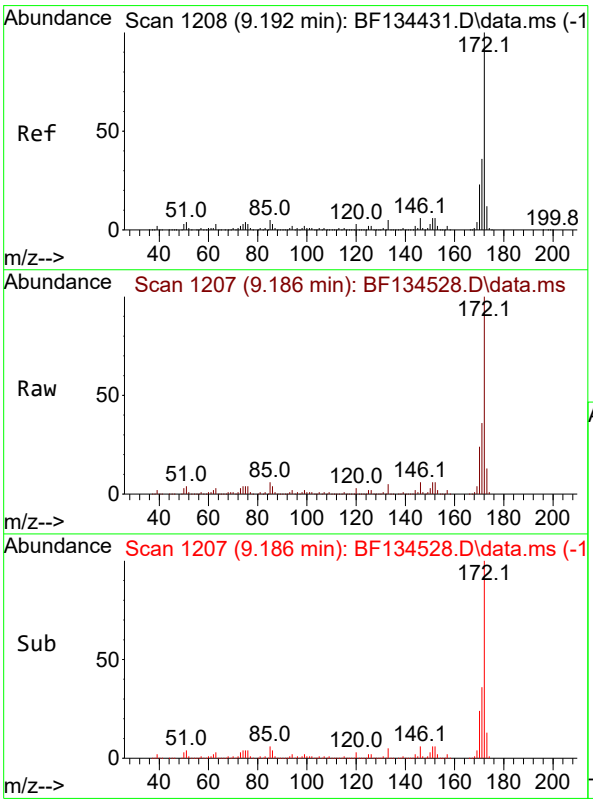
#42
2,4,6-Tribromophenol
Concen: 98.308 ng
RT: 10.663 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF134528.D
Acq: 28 Jul 2023 22:17

Instrument :
BNA_F
ClientSampleId :
RINSATE-BLANK

Tgt Ion:330 Resp: 191355

Ion	Ratio	Lower	Upper
330	100		
332	96.3	78.8	118.2
141	29.5	25.4	38.2

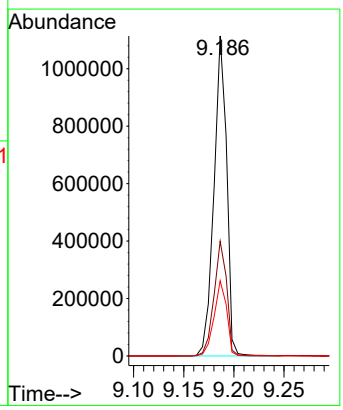


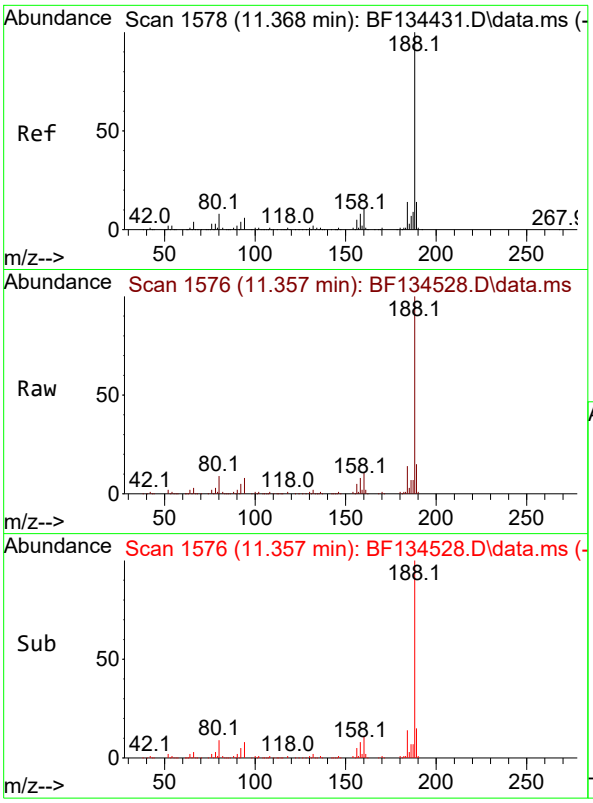


#45
2-Fluorobiphenyl
Concen: 93.883 ng
RT: 9.186 min Scan# 1207
Delta R.T. 0.006 min
Lab File: BF134528.D
Acq: 28 Jul 2023 22:17

Tgt Ion:172 Resp: 979715

Ion	Ratio	Lower	Upper
172	100		
171	35.8	28.8	43.2
170	23.5	18.7	28.1



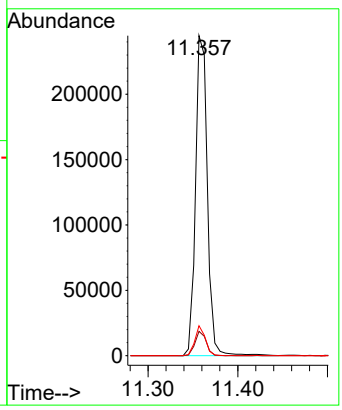


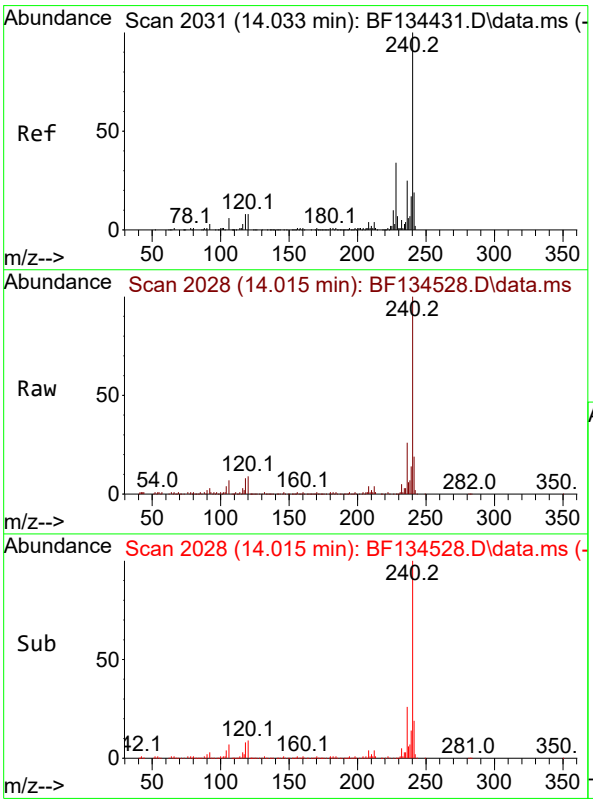
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.357 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134528.D
Acq: 28 Jul 2023 22:17

Instrument :
BNA_F
ClientSampleId :
RINSATE-BLANK

Tgt Ion:188 Resp: 224038

Ion	Ratio	Lower	Upper
188	100		
94	7.6	5.1	7.7
80	9.4	6.6	9.8

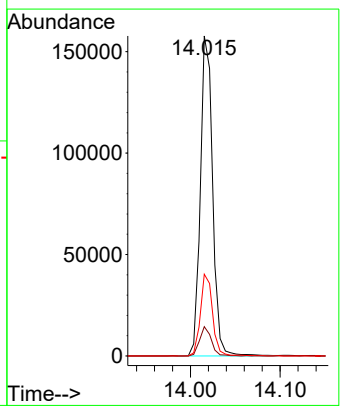


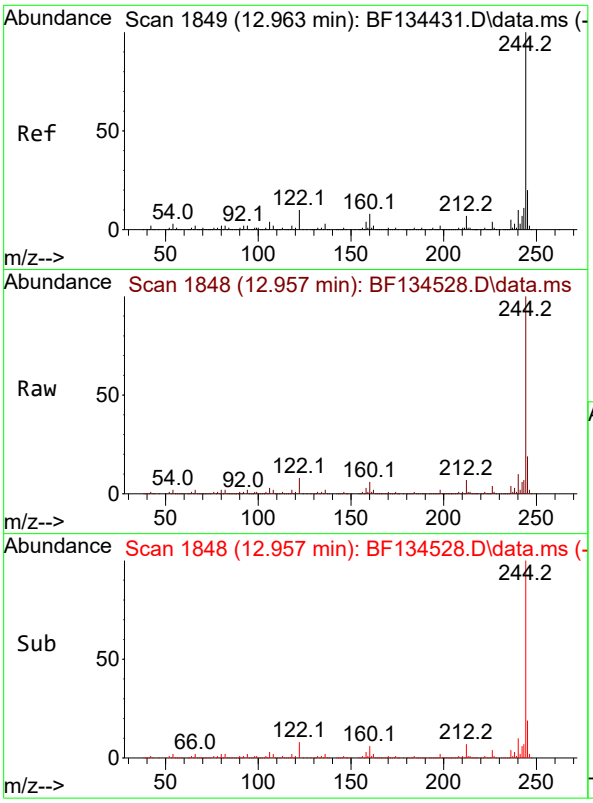


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.015 min Scan# 2028
Delta R.T. -0.006 min
Lab File: BF134528.D
Acq: 28 Jul 2023 22:17

Tgt Ion:240 Resp: 149740

Ion	Ratio	Lower	Upper
240	100		
120	9.2	6.6	10.0
236	25.6	20.2	30.2



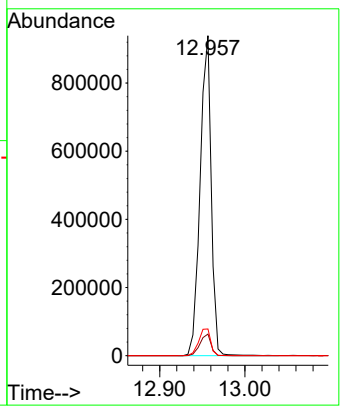


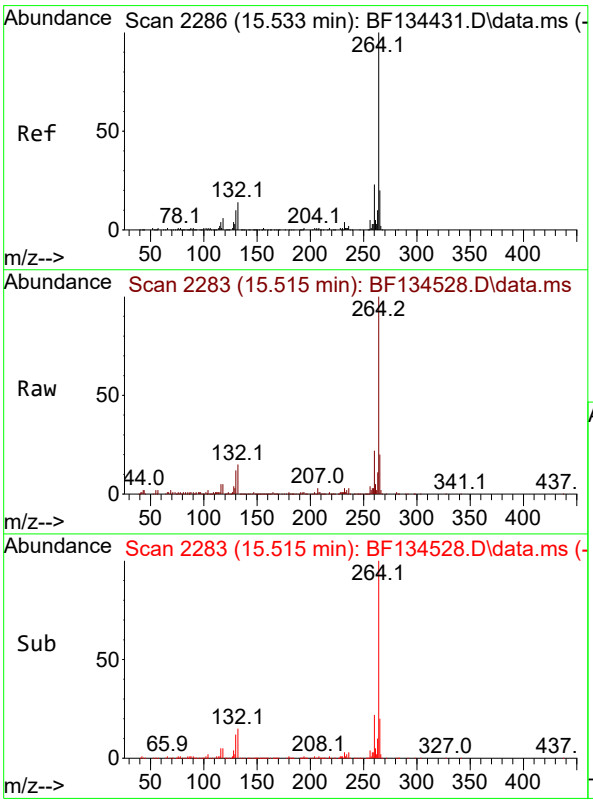
#79
Terphenyl-d14
Concen: 98.816 ng
RT: 12.957 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF134528.D
Acq: 28 Jul 2023 22:17

Instrument :
BNA_F
ClientSampleId :
RINSATE-BLANK

Tgt Ion:244 Resp: 847631

Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.6	8.4
122	8.3	8.0	12.0

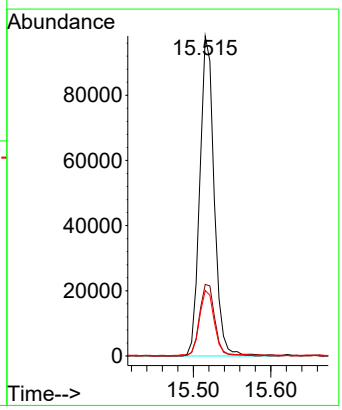




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.515 min Scan# 2283
Delta R.T. 0.000 min
Lab File: BF134528.D
Acq: 28 Jul 2023 22:17

Tgt Ion:264 Resp: 125969

Ion	Ratio	Lower	Upper
264	100		
260	22.4	18.4	27.6
265	20.4	15.8	23.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF072823\
Data File : BF134528.D
Acq On : 28 Jul 2023 22:17
Operator : CG\JU
Sample : 03645-08
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
RINSATE-BLANK

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF072423.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF134528.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.157	9	12	17	rVB	25604	33818	1.19%	0.241%
2	5.069	504	507	516	rBV	88041	105279	3.71%	0.751%
3	5.469	572	575	593	rBV	1360208	1391125	49.03%	9.918%
4	6.469	742	745	767	rBV	876559	881137	31.06%	6.282%
5	6.828	803	806	813	rBV	738429	679743	23.96%	4.846%
6	7.398	898	903	906	rBV	2283186	2147080	75.68%	15.308%
7	8.110	1020	1024	1037	rVB	575103	533103	18.79%	3.801%
8	9.186	1202	1207	1210	rBV	3289849	2837135	100.00%	20.228%
9	9.863	1319	1322	1326	rBV	670919	596086	21.01%	4.250%
10	10.663	1454	1458	1461	rBV	1600536	1342727	47.33%	9.573%
11	11.357	1573	1576	1580	rBV	583681	520730	18.35%	3.713%
12	12.957	1843	1848	1851	rBV	2343506	2172528	76.57%	15.489%
13	14.015	2025	2028	2033	rBV	431570	415653	14.65%	2.963%
14	14.592	2121	2126	2129	rBV7	17131	40658	1.43%	0.290%
15	15.515	2279	2283	2289	rBV	256791	329040	11.60%	2.346%

Sum of corrected areas: 14025842

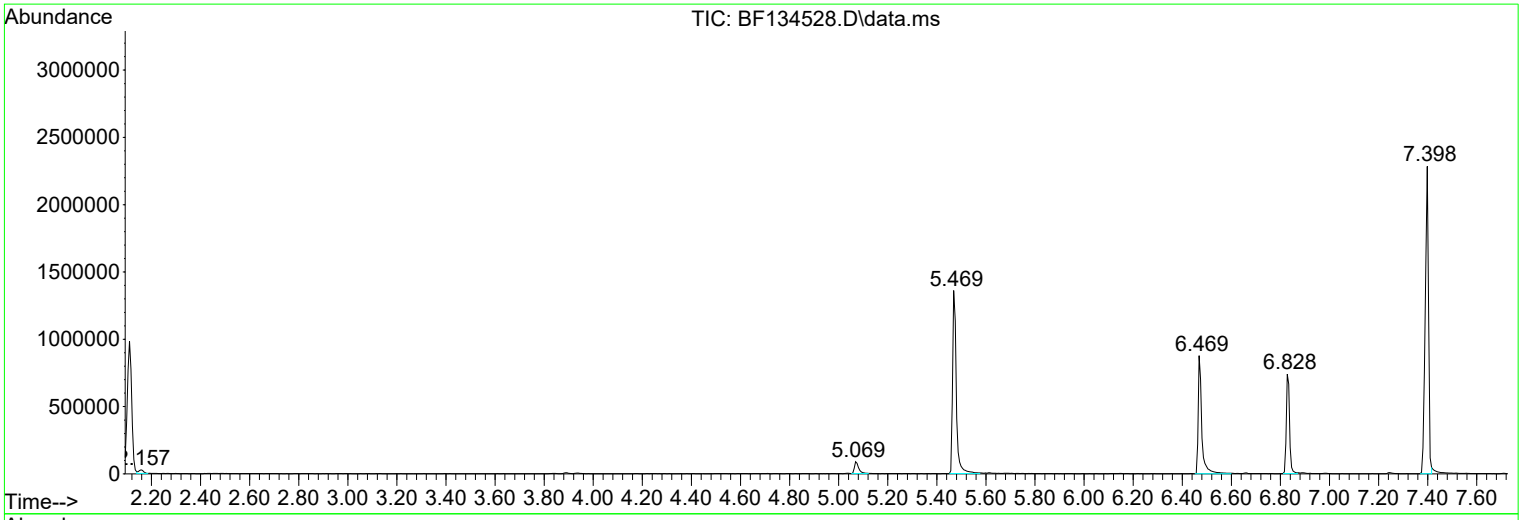
Sample Results: **BF134528.D**

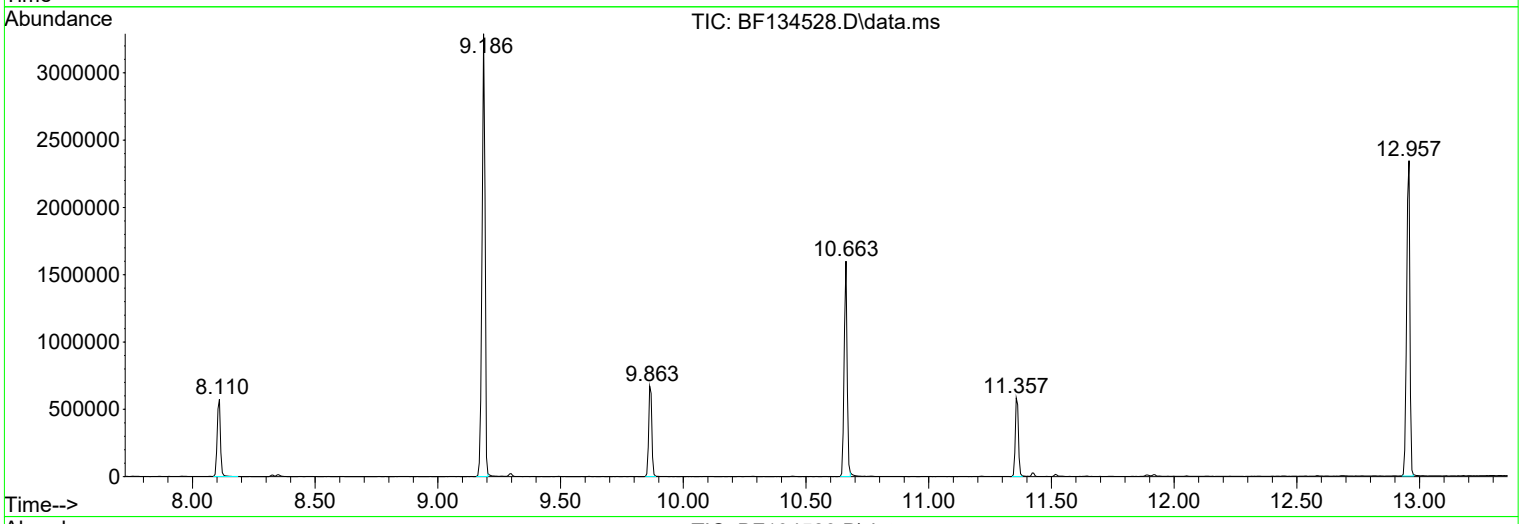
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF072823\
Data File : BF134528.D
Acq On : 28 Jul 2023 22:17
Operator : CG\JU
Sample : 03645-08
Misc :
ALS Vial : 12 Sample Multiplier: 1

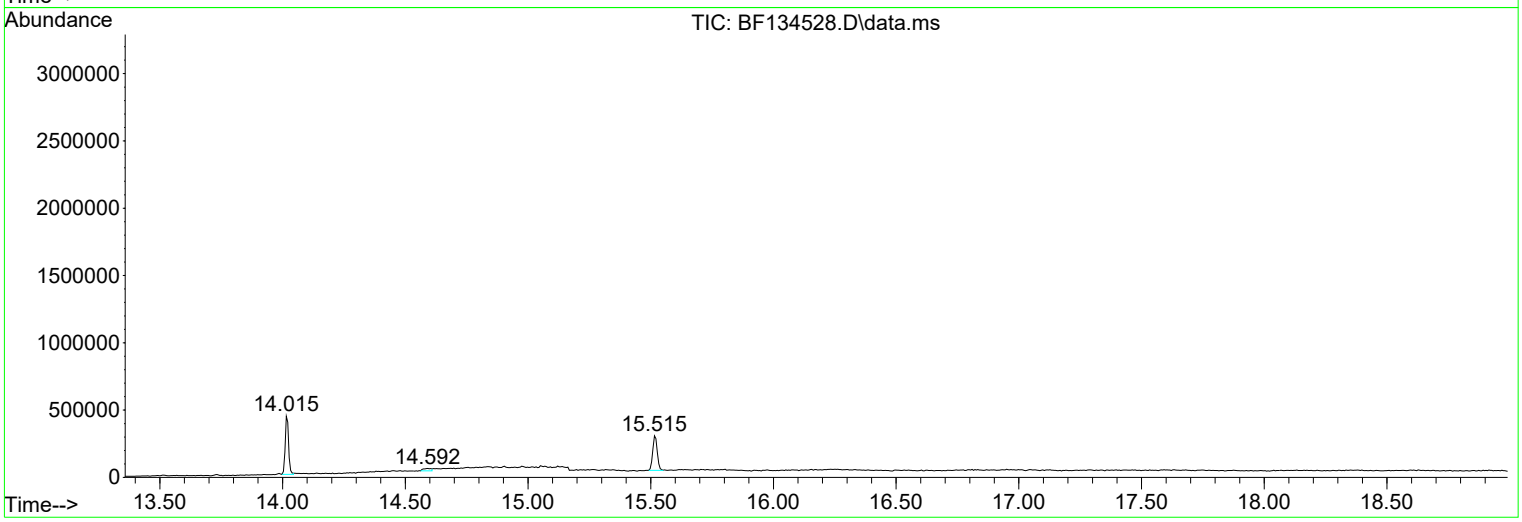
Instrument :
BNA_F
ClientSampleId :
RINSATE-BLANK

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF072423.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF072823\
Data File : BF134528.D
Acq On : 28 Jul 2023 22:17
Operator : CG\JU
Sample : 03645-08
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
RINSATE-BLANK

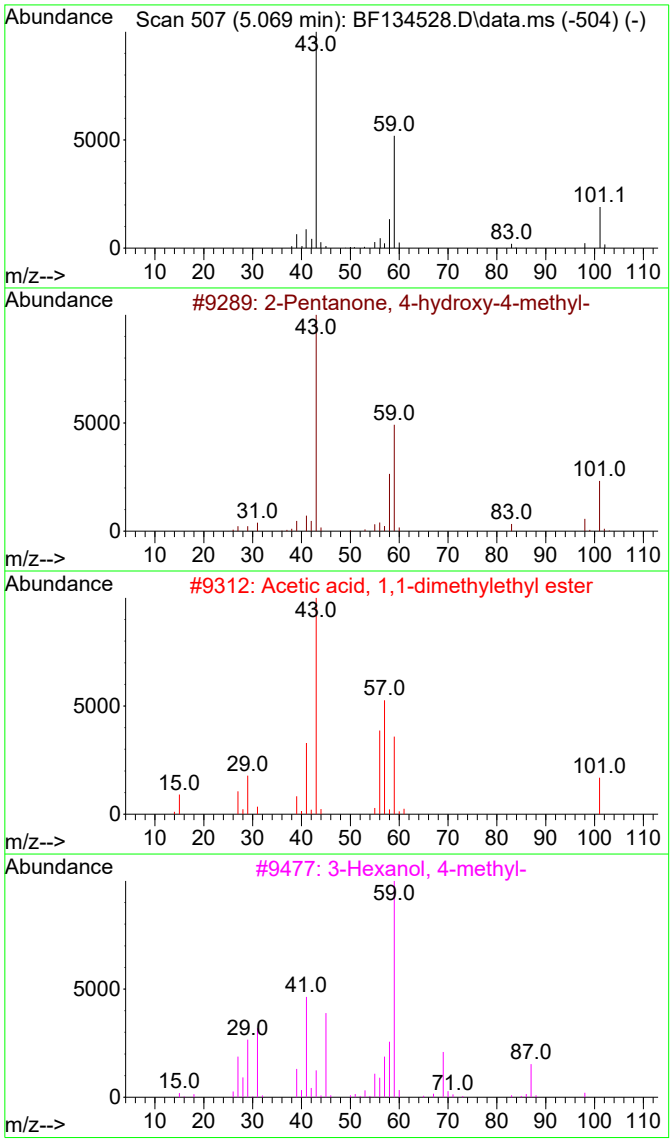
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF072423.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

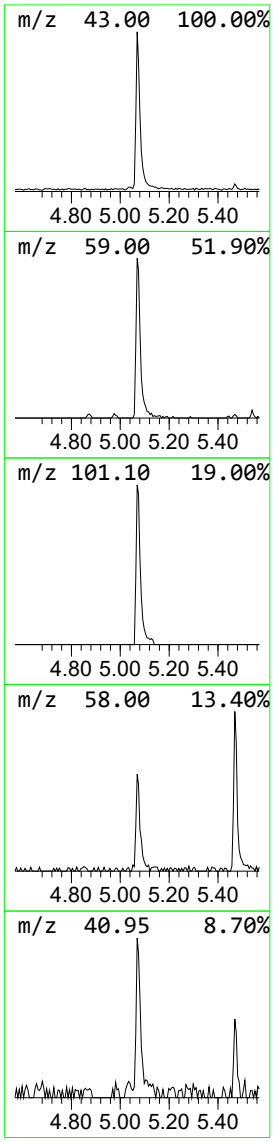
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.069	3.10 ng	105279	1,4-Dichlorobenzene-d4	6.828

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	56
2	Acetic acid, 1,1-dimethylethyl e...	116	C6H12O2	000540-88-5	50
3	3-Hexanol, 4-methyl-	116	C7H16O	000615-29-2	33
4	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	27
5	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	12





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF072823\
Data File : BF134528.D
Acq On : 28 Jul 2023 22:17
Operator : CG\JU
Sample : 03645-08
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
RINSATE-BLANK

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF072423.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
2-Pentanone, 4-...	5.069	3.1	ng	105279	1	6.828	679743	20.0

CALIBRATION SUMMARY

Response Factor Report BNA_F

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF062623.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Mon Jun 26 23:12:04 2023
Response Via : Initial Calibration

Calibration Files
2.5 =BF133953.D 5 =BF133954.D 10 =BF133955.D 20 =BF133956.D 40 =BF133957.D 50 =BF133958.D 60 =BF133959.D 80 =BF1339
60.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	ISTD									
2)		1,4-Dioxane		0.509	0.533	0.541	0.491	0.448	0.478	0.449	0.493	7.56
3)		Pyridine		1.291	1.230	1.419	1.277	1.209	1.313	1.251	1.284	5.39
4)		n-Nitrosodimet...		0.712	0.747	0.769	0.743	0.693	0.757	0.713	0.733	3.77
5)	S	2-Fluorophenol		1.333	1.301	1.332	1.173	1.076	1.120	1.034	1.196	10.54
6)		Aniline		1.914	1.876	1.956	1.789	1.688	1.709	1.592	1.789	7.45
7)	S	Phenol-d6		1.666	1.625	1.588	1.420	1.341	1.377	1.275	1.470	10.47
8)		2-Chlorophenol		1.370	1.327	1.334	1.184	1.124	1.120	1.036	1.214	10.68
9)		Benzaldehyde		1.029	1.058	0.971	0.808	0.730	0.719		0.886	17.16
10)	C	Phenol		1.770	1.703	1.706	1.507	1.412	1.428	1.297	1.546	11.68
11)		bis(2-Chloroet...		1.269	1.206	1.224	1.120	1.060	1.081	1.007	1.138	8.49
12)		1,3-Dichlorobe...		1.436	1.401	1.413	1.267	1.184	1.225	1.132	1.294	9.44
13)	C	1,4-Dichlorobe...		1.446	1.420	1.431	1.293	1.203	1.231	1.126	1.307	9.74
14)		1,2-Dichlorobe...		1.424	1.367	1.341	1.176	1.115	1.127	1.017	1.224	12.51
15)		Benzyl Alcohol		1.209	1.230	1.250	1.141	1.039	1.084	0.981	1.134	9.08
16)		2,2'-oxybis(1-...		2.231	2.170	2.160	1.981	1.913	1.898	1.743	2.014	8.86
17)		2-Methylphenol		1.172	1.170	1.175	1.078	1.025	1.018	0.971	1.087	7.87
18)		Hexachloroethane		0.532	0.519	0.520	0.482	0.449	0.463	0.427	0.485	8.29
19)	P	n-Nitroso-di-n...	1.083	1.033	0.997	1.007	0.887	0.815	0.849	0.788	0.932	11.89
20)		3+4-Methylphenols		1.527	1.485	1.480	1.290	1.177	1.200	1.071	1.319	13.63
21)	I	Naphthalene-d8	ISTD									
22)		Acetophenone		0.523	0.509	0.489	0.439	0.408	0.428	0.389	0.455	11.41
23)	S	Nitrobenzene-d5		0.381	0.398	0.393	0.371	0.347	0.369	0.338	0.371	6.01
24)		Nitrobenzene		0.376	0.400	0.401	0.379	0.352	0.375	0.342	0.375	5.90
25)		Isophorone		0.712	0.715	0.701	0.661	0.633	0.667	0.629	0.674	5.35
26)	C	2-Nitrophenol		0.173	0.179	0.193	0.185	0.176	0.181	0.173	0.180	4.09
27)		2,4-Dimethylph...		0.301	0.303	0.305	0.285	0.265	0.276	0.258	0.285	6.69
28)		bis(2-Chloroet...		0.418	0.422	0.414	0.391	0.363	0.374	0.351	0.390	7.35
29)	C	2,4-Dichloroph...		0.306	0.292	0.304	0.284	0.263	0.274	0.253	0.282	7.07
30)		1,2,4-Trichlor...		0.315	0.308	0.311	0.290	0.268	0.286	0.262	0.291	7.25
31)		Naphthalene		1.073	1.058	1.041	0.951	0.881	0.924	0.835	0.966	9.64
32)		Benzoic acid		0.164	0.198	0.232	0.229	0.219	0.227	0.225	0.213	11.62
33)		4-Chloroaniline		0.437	0.441	0.443	0.414	0.389	0.401	0.368	0.413	6.93
34)	C	Hexachlorobuta...		0.195	0.198	0.195	0.183	0.172	0.180	0.163	0.184	7.07
35)		Caprolactam		0.094	0.096	0.097	0.094	0.088	0.094	0.088	0.093	3.60
36)	C	4-Chloro-3-met...		0.337	0.342	0.333	0.315	0.294	0.310	0.289	0.317	6.65
37)		2-Methylnaphth...		0.796	0.754	0.732	0.666	0.609	0.640	0.585	0.683	11.55
38)		1-Methylnaphth...		0.753	0.696	0.672	0.616	0.566	0.598	0.544	0.635	11.84

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF062623.M

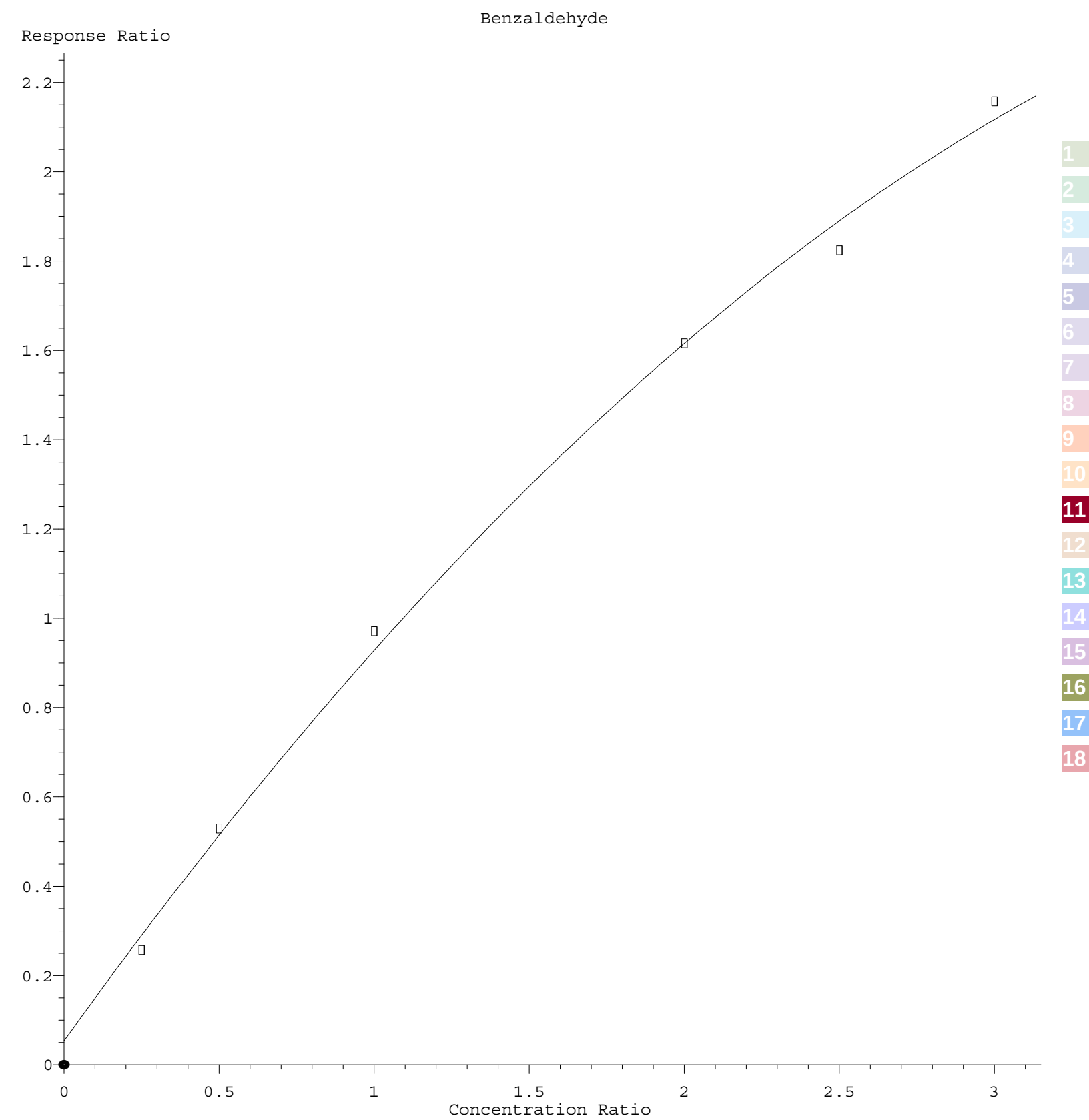
39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.626	0.639	0.634	0.585	0.562	0.574	0.528	0.593	7.08
41)	P	Hexachlorocycl...		0.214	0.264	0.295	0.297	0.310	0.307	0.281	12.98
42)	S	2,4,6-Tribromo...	0.259	0.274	0.270	0.248	0.235	0.243	0.225	0.251	7.23
43)	C	2,4,6-Trichlor...	0.412	0.433	0.423	0.404	0.391	0.394	0.367	0.403	5.45
44)		2,4,5-Trichlor...	0.494	0.503	0.500	0.473	0.454	0.467	0.431	0.474	5.57
45)	S	2-Fluorobiphenyl	1.574	1.574	1.501	1.328	1.243	1.265	1.144	1.376	12.61
46)		1,1'-Biphenyl	1.764	1.767	1.710	1.576	1.508	1.526	1.379	1.604	9.19
47)		2-Chloronaphth...	1.283	1.285	1.236	1.154	1.106	1.123	1.030	1.174	8.26
48)		2-Nitroaniline	0.407	0.444	0.452	0.431	0.422	0.432	0.406	0.428	4.05
49)		Acenaphthylene	2.169	2.206	2.171	1.979	1.901	1.909	1.703	2.005	9.26
50)		Dimethylphthalate	1.544	1.581	1.522	1.425	1.374	1.408	1.308	1.452	6.85
51)		2,6-Dinitrotol...	0.316	0.323	0.329	0.318	0.303	0.315	0.285	0.313	4.69
52)	C	Acenaphthene	1.242	1.279	1.252	1.143	1.089	1.122	1.018	1.164	8.33
53)		3-Nitroaniline	0.377	0.389	0.404	0.375	0.356	0.374	0.350	0.375	4.92
54)	P	2,4-Dinitrophenol		0.122	0.147	0.168	0.169	0.192	0.176	0.162	15.11
55)		Dibenzofuran	2.044	2.015	1.960	1.802	1.692	1.701	1.514	1.818	10.82
56)	P	4-Nitrophenol	0.236	0.262	0.280	0.269	0.265	0.272	0.253	0.262	5.43
57)		2,4-Dinitrotol...	0.417	0.439	0.450	0.417	0.396	0.407	0.364	0.413	6.84
58)		Fluorene	1.585	1.611	1.541	1.373	1.289	1.319	1.185	1.415	11.65
59)		2,3,4,6-Tetrac...	0.392	0.401	0.390	0.368	0.357	0.372	0.339	0.374	5.81
60)		Diethylphthalate	1.631	1.692	1.612	1.489	1.415	1.448	1.303	1.513	9.12
61)		4-Chlorophenyl...	0.773	0.767	0.733	0.667	0.623	0.638	0.572	0.682	11.35
62)		4-Nitroaniline	0.380	0.396	0.402	0.377	0.370	0.378	0.343	0.378	5.03
63)		Azobenzene	1.531	1.554	1.512	1.408	1.358	1.374	1.279	1.431	7.21
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...	0.084	0.102	0.113	0.117	0.112	0.119	0.115	0.109	11.21
66)	c	n-Nitrosodiphe...	0.718	0.680	0.685	0.628	0.586	0.603	0.572	0.639	8.76
67)		4-Bromophenyl-...	0.227	0.222	0.228	0.213	0.199	0.203	0.196	0.213	6.33
68)		Hexachlorobenzene	0.241	0.236	0.242	0.221	0.211	0.222	0.207	0.226	6.33
69)		Atrazine	0.194	0.201	0.195	0.167	0.161	0.167	0.152	0.177	10.94
70)	C	Pentachlorophenol	0.119	0.135	0.144	0.141	0.134	0.137	0.135	0.135	5.81
71)		Phenanthrene	1.119	1.105	1.087	0.981	0.929	0.951	0.876	1.007	9.57
72)		Anthracene	1.184	1.145	1.149	1.015	0.951	0.988	0.898	1.047	10.64
73)		Carbazole	1.087	1.066	1.056	0.950	0.814	0.902	0.835	0.959	11.81
74)		Di-n-butylphth...	1.265	1.264	1.254	1.141	0.982	1.084	0.989	1.140	11.04
75)	C	Fluoranthene	1.284	1.246	1.207	1.054	0.919	1.012	0.897	1.088	14.52
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine		0.583	0.479	0.512	0.452	0.410	0.418	0.476	13.66
78)		Pyrene	1.804	1.790	1.865	1.963	1.871	1.934	1.802	1.861	3.65
79)	S	Terphenyl-d14	1.283	1.241	1.284	1.267	1.214	1.253	1.156	1.243	3.64
80)		Butylbenzylpht...	0.668	0.702	0.723	0.721	0.685	0.720	0.666	0.698	3.58
81)		Benzo(a)anthra...	1.500	1.462	1.433	1.379	1.312	1.356	1.267	1.387	6.01
82)		3,3'-Dichlorob...	0.487	0.486	0.465	0.430	0.412	0.412	0.384	0.439	9.12
83)		Chrysene	1.472	1.404	1.400	1.329	1.260	1.306	1.234	1.343	6.39
84)		Bis(2-ethylhex...	0.753	0.832	0.832	0.821	0.785	0.822	0.770	0.802	4.02
85)	c	Di-n-octyl pht...	1.061	1.124	1.137	1.199	1.189	1.264	1.277	1.179	6.56

Response Factor Report BNA_F

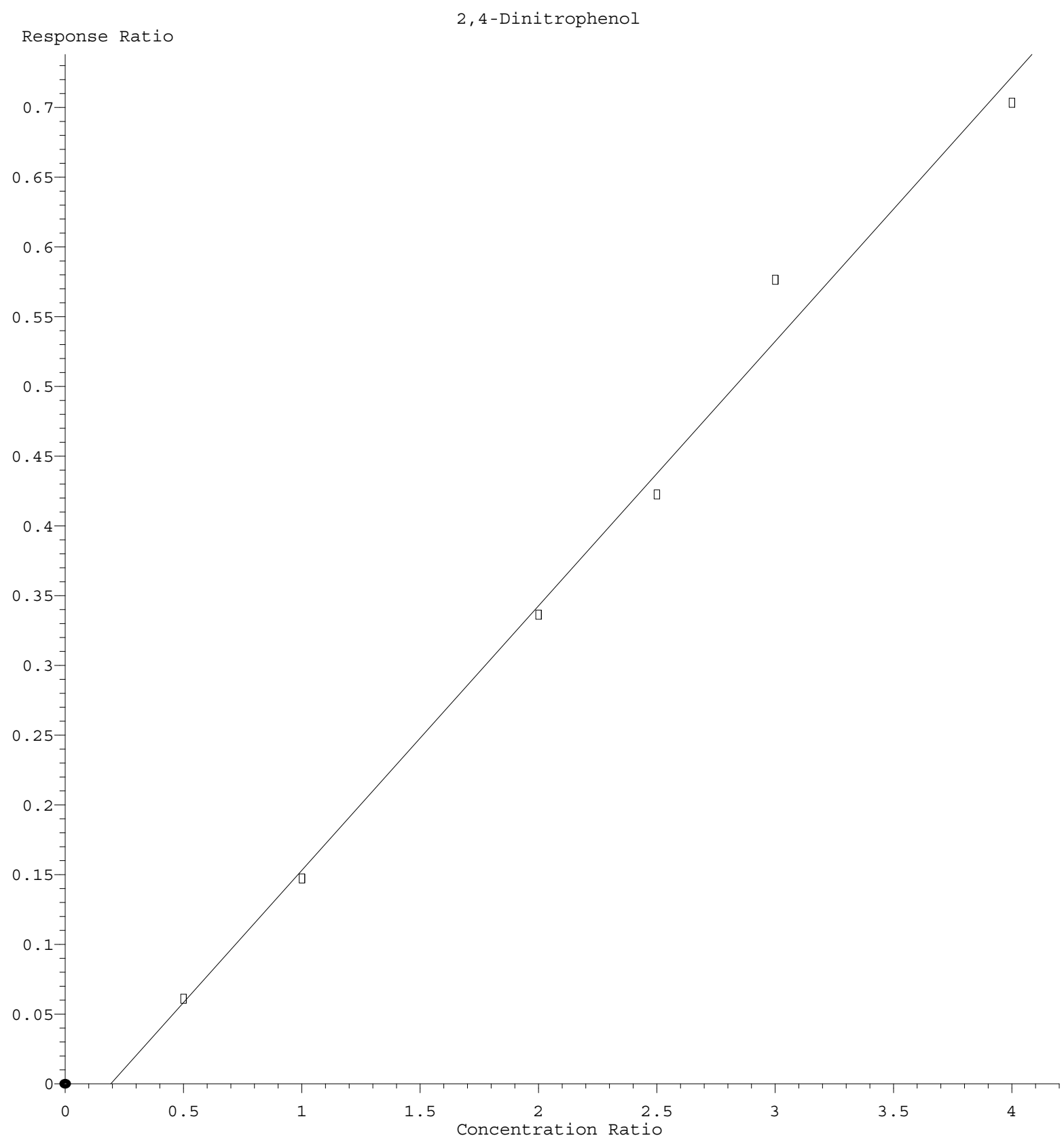
Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF062623.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.095	1.182	1.435	1.520	1.545	1.488	1.449	1.388	12.71
88)		Benzo(b)fluora...	1.188	1.314	1.268	1.181	1.070	1.114	1.097	1.176	7.68
89)		Benzo(k)fluora...	1.276	1.365	1.306	1.161	1.093	1.156	1.025	1.197	10.23
90)	C	Benzo(a)pyrene	1.167	1.199	1.199	1.137	1.072	1.123	1.064	1.137	4.86
91)		Dibenzo(a,h)an...	0.911	0.995	1.181	1.240	1.255	1.200	1.153	1.134	11.50
92)		Benzo(g,h,i)pe...	0.965	0.979	1.212	1.269	1.296	1.247	1.214	1.169	11.79

(#) = Out of Range



R = -9.331e-002 A*A + 9.677e-001 A + 5.376e-002
Coef of Det (r^2) = 0.996830 Curve Fit: Quadratic
Method: \\chromsrv\HPCHEM1\BNA F\Methods\8270-BF062623.M
Calibration Table Last Updated: Mon Jun 26 23:12:04 2023



Response = 1.897e-001 * Amt - 3.666e-002
Coef of Det (r^2) = 0.991398 Curve Fit: Linear
Method: \\chemsrv\HPCHEM1\BNA F\Methods\8270-BF062623.M
Calibration Table Last Updated: Mon Jun 26 23:12:04 2023

Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF062623\
Data File : BF133953.D
Acq On : 26 Jun 2023 15:19
Operator : CG\JU
Sample : SSTDICC2.5
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Quant Time: Jun 26 22:15:27 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF062623.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Jun 26 22:11:46 2023
Response via : Initial Calibration

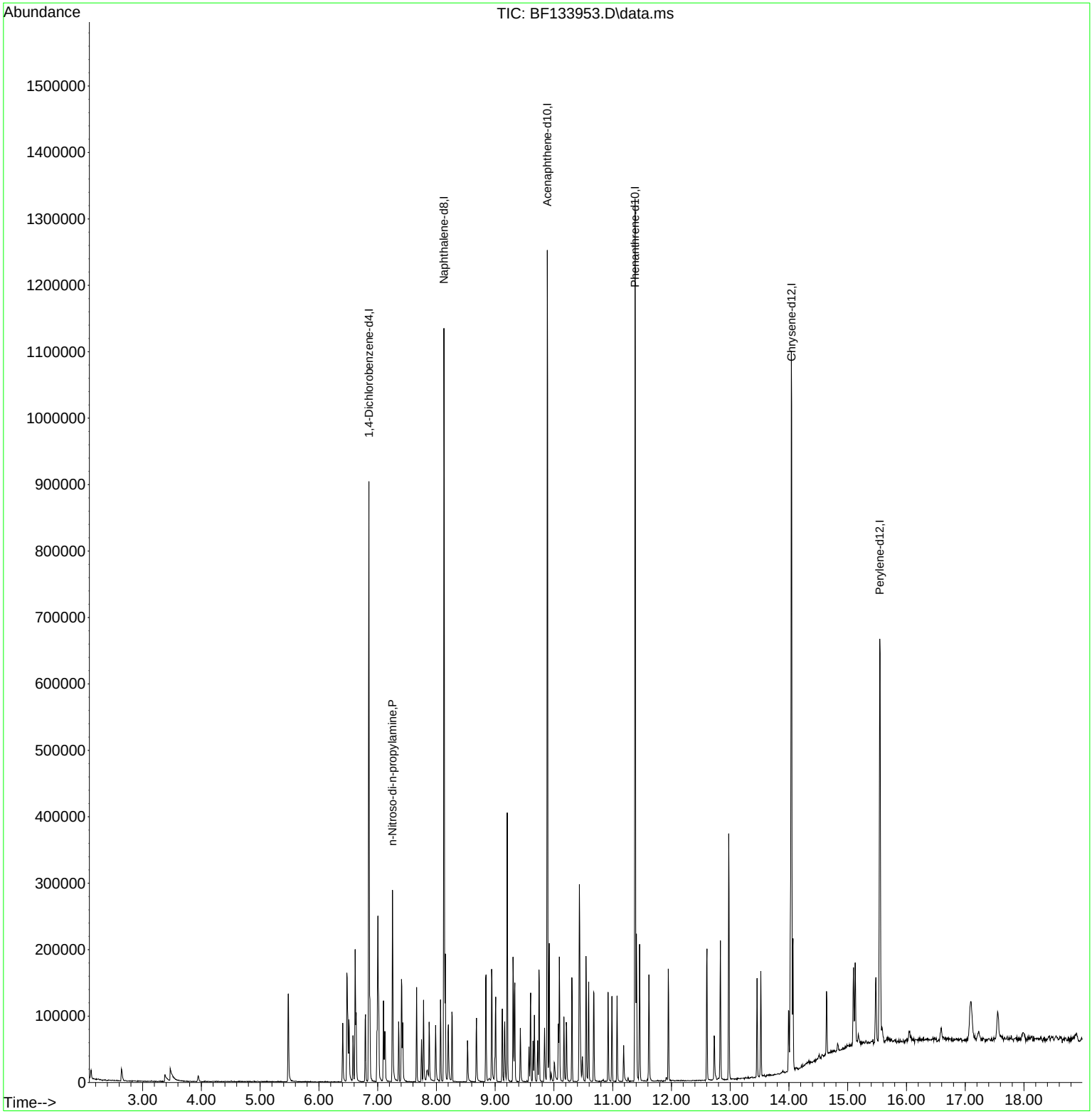
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.851	152	119328	20.000	ng	0.00
21) Naphthalene-d8	8.128	136	463446	20.000	ng	0.00
39) Acenaphthene-d10	9.886	164	243066	20.000	ng	0.00
64) Phenanthrene-d10	11.380	188	490437	20.000	ng	0.00
76) Chrysene-d12	14.045	240	352413	20.000	ng	0.00
86) Perylene-d12	15.545	264	303352	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0d	0.000	ng	
7) Phenol-d6	0.000	99	0d	0.000	ng	
23) Nitrobenzene-d5	0.000	82	0d	0.000	ng	
42) 2,4,6-Tribromophenol	0.000	330	0d	0.000	ng	
45) 2-Fluorobiphenyl	0.000	172	0d	0.000	ng	
79) Terphenyl-d14	0.000	244	0d	0.000	ng	
Target Compounds						Qvalue
19) n-Nitroso-di-n-propyla...	7.251	70	16154	2.846	ng	97

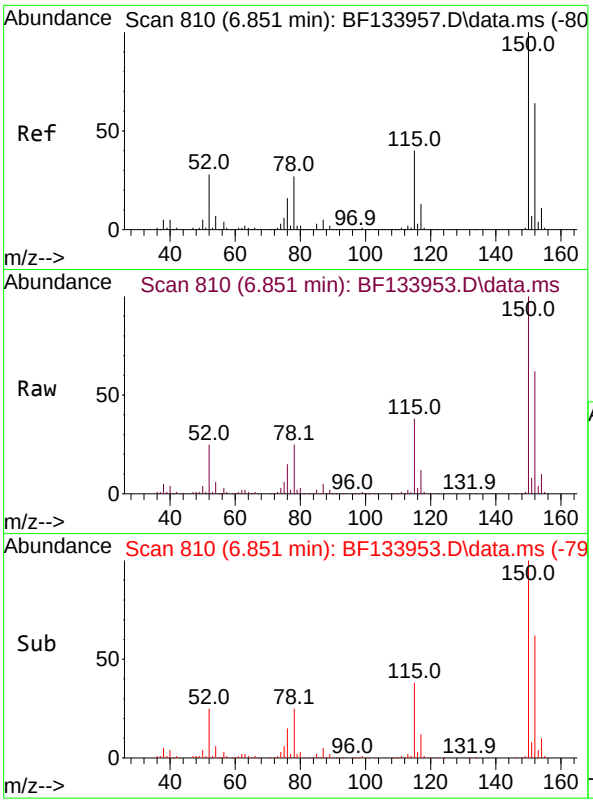
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF062623\
Data File : BF133953.D
Acq On : 26 Jun 2023 15:19
Operator : CG\JU
Sample : SSTDICC2.5
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Quant Time: Jun 26 22:15:27 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF062623.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Jun 26 22:11:46 2023
Response via : Initial Calibration



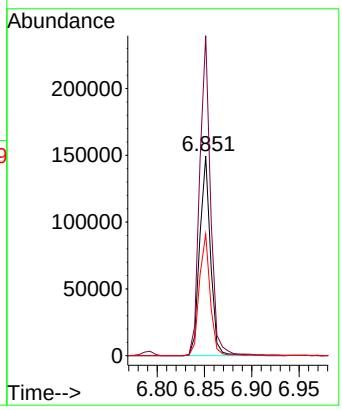


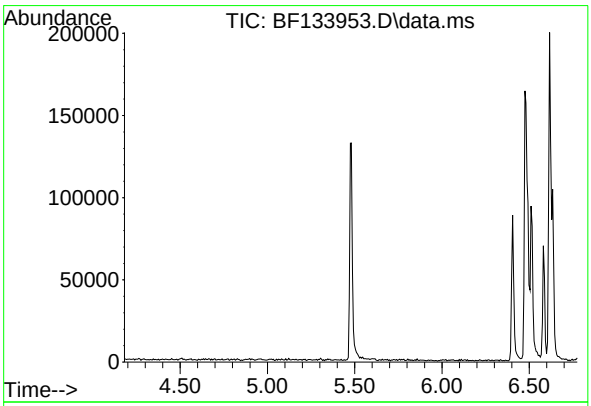
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.851 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF133953.D
Acq: 26 Jun 2023 15:19

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion:152 Resp: 119328

Ion	Ratio	Lower	Upper
152	100		
150	160.2	124.5	186.7
115	60.9	50.2	75.2



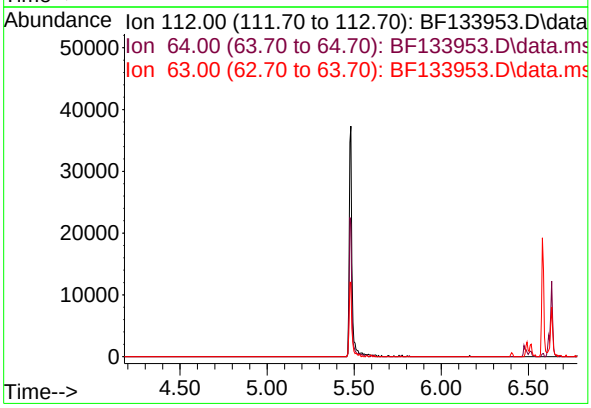


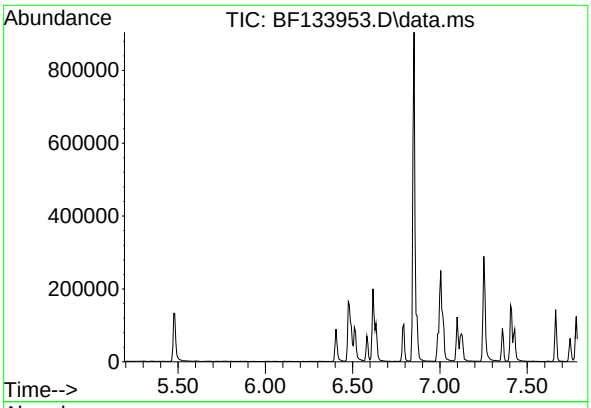
#5
2-Fluorophenol
Concen: 0.000 ng
Expected RT: 5.48 min

Lab File: BF133953.D
Acq: 26 Jun 2023 15:19

Tgt Ion: 112

Sig	Exp Ratio
112	100
64	65.1
63	35.7





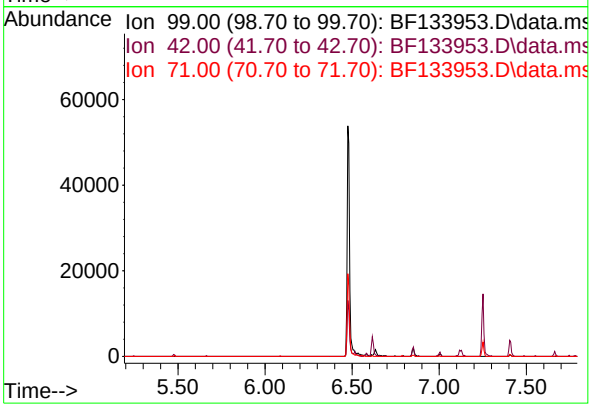
#7
Phenol-d6
Concen: 0.000 ng
Expected RT: 6.49 min

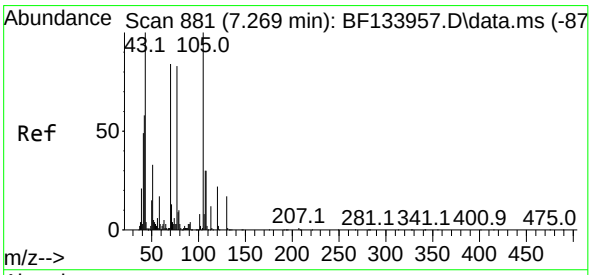
Lab File: BF133953.D
Acq: 26 Jun 2023 15:19

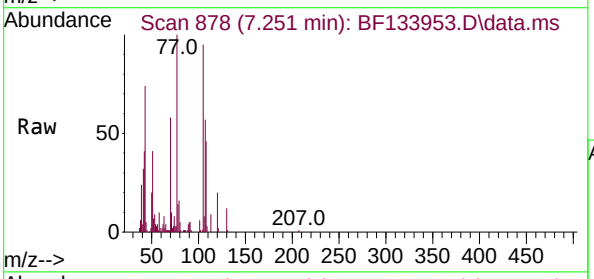
Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

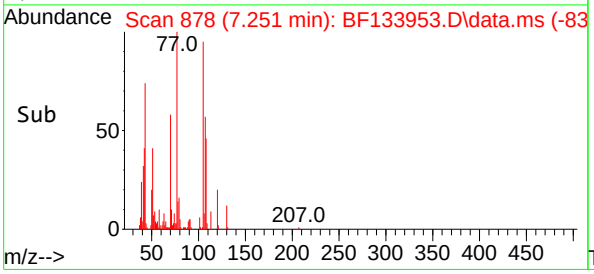
Tgt Ion: 99

Sig	Exp Ratio
99	100
42	24.7
71	39.9





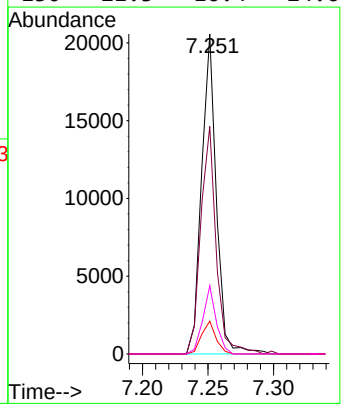


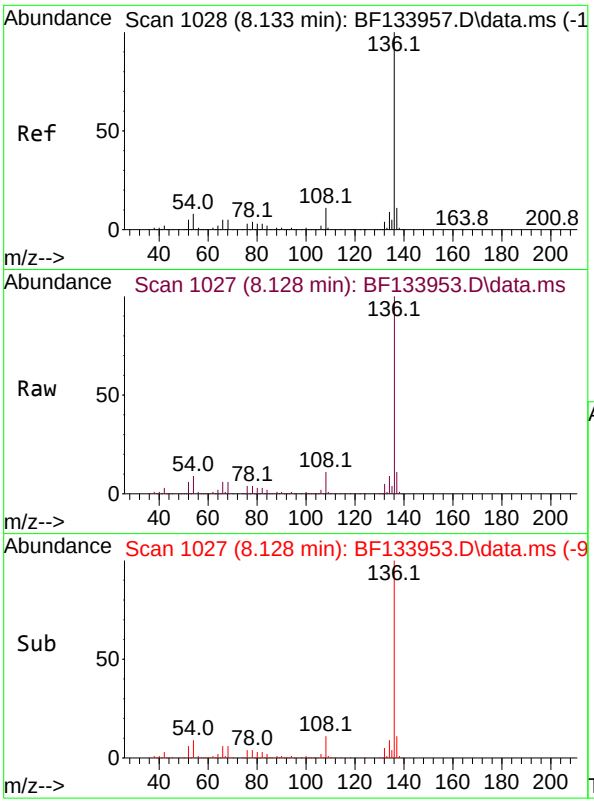


#19
n-Nitroso-di-n-propylamine
Concen: 2.846 ng
RT: 7.251 min Scan# 878
Delta R.T. -0.017 min
Lab File: BF133953.D
Acq: 26 Jun 2023 15:19

Tgt Ion: 70 Resp: 16154

Ion	Ratio	Lower	Upper
70	100		
42	71.1	54.7	82.1
101	10.2	7.7	11.5
130	21.3	16.4	24.6



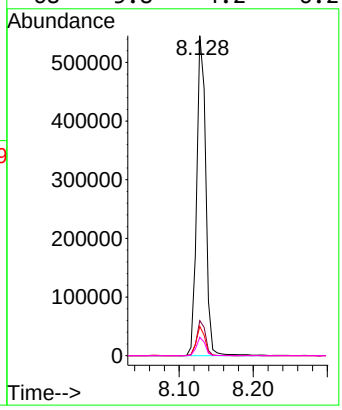


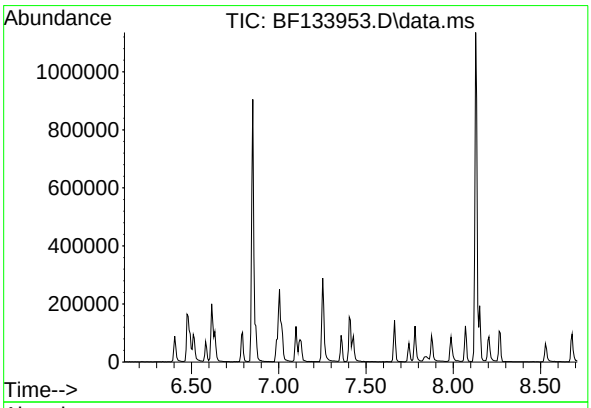
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.128 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF133953.D
Acq: 26 Jun 2023 15:19

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion:136 Resp: 463446

Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.6	12.8
54	9.1	6.5	9.7
68	5.8	4.2	6.2



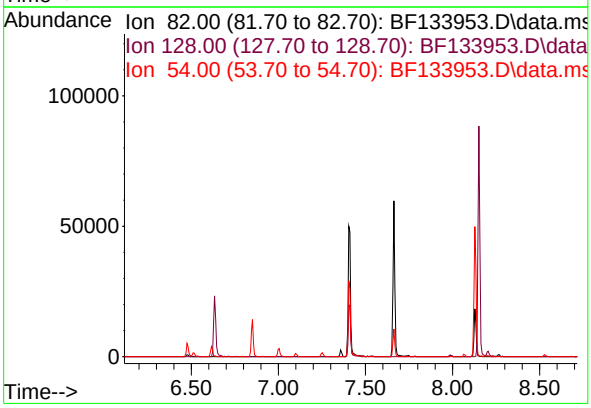


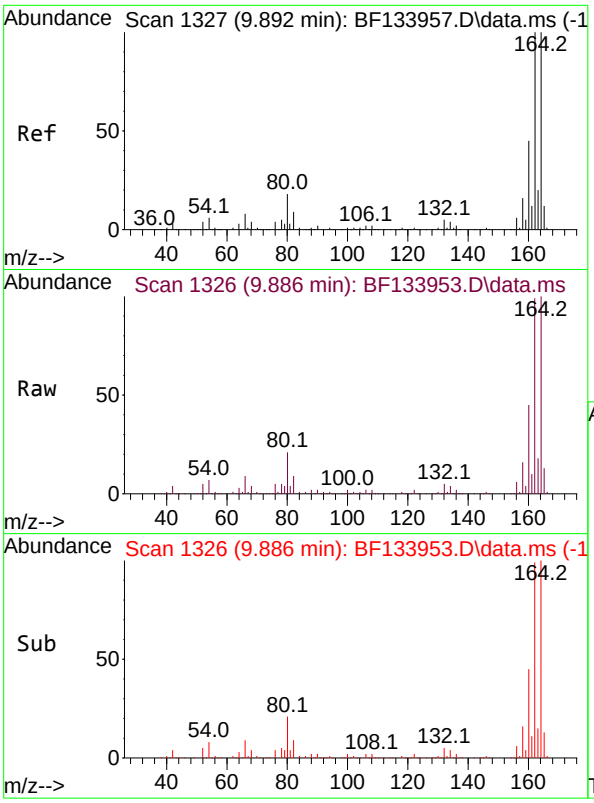
#23
Nitrobenzene-d5
Concen: 0.000 ng
Expected RT: 7.42 min

Lab File: BF133953.D
Acq: 26 Jun 2023 15:19

Tgt Ion: 82

Sig	Exp Ratio
82	100
128	40.6
54	60.2



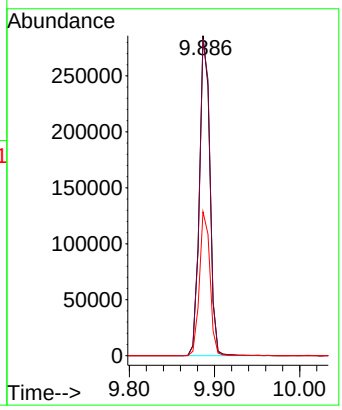


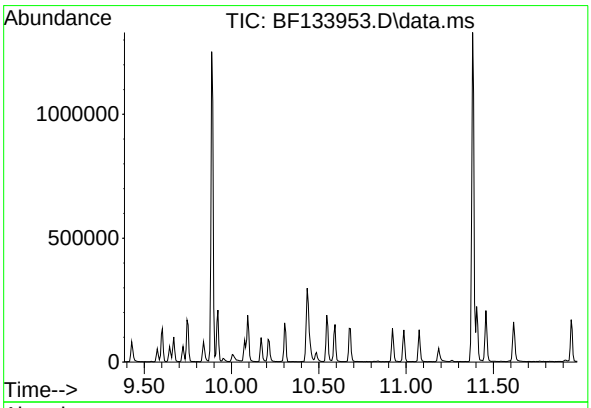
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.886 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF133953.D
Acq: 26 Jun 2023 15:19

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion:164 Resp: 243066

Ion	Ratio	Lower	Upper
164	100		
162	98.8	80.0	120.0
160	44.9	35.9	53.9



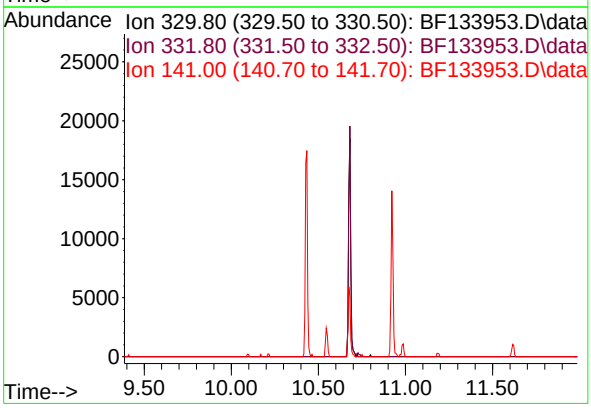


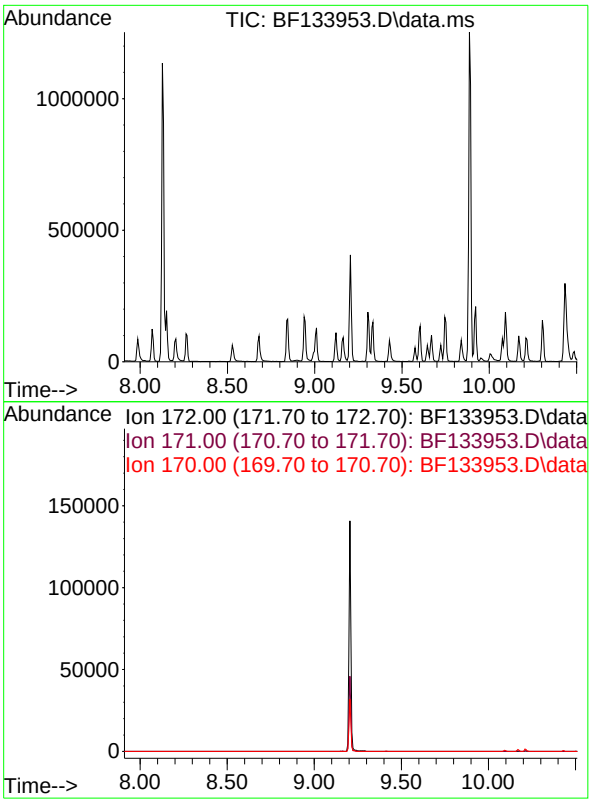
#42
2,4,6-Tribromophenol
Concen: 0.000 ng
Expected RT: 10.69 min

Lab File: BF133953.D
Acq: 26 Jun 2023 15:19

Tgt Ion: 330

Sig	Exp Ratio
330	100
332	96.3
141	32.9





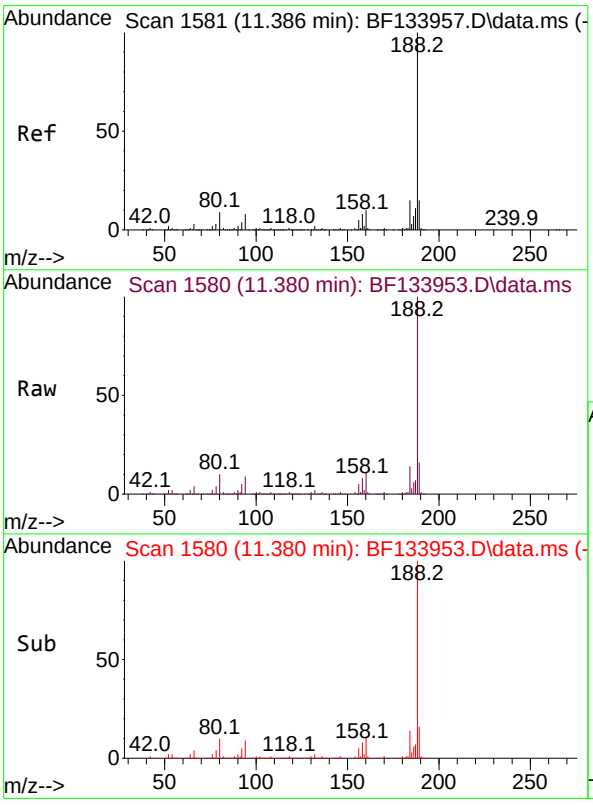
#45
2-Fluorobiphenyl
Concen: 0.000 ng
Expected RT: 9.21 min

Lab File: BF133953.D
Acq: 26 Jun 2023 15:19

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion: 172

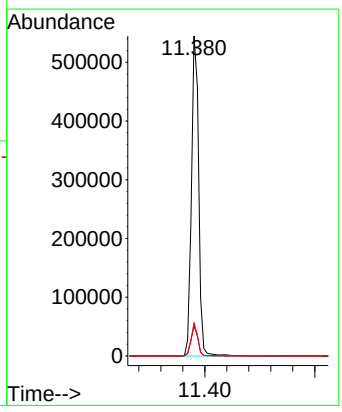
Sig	Exp Ratio
172	100
171	35.8
170	24.2

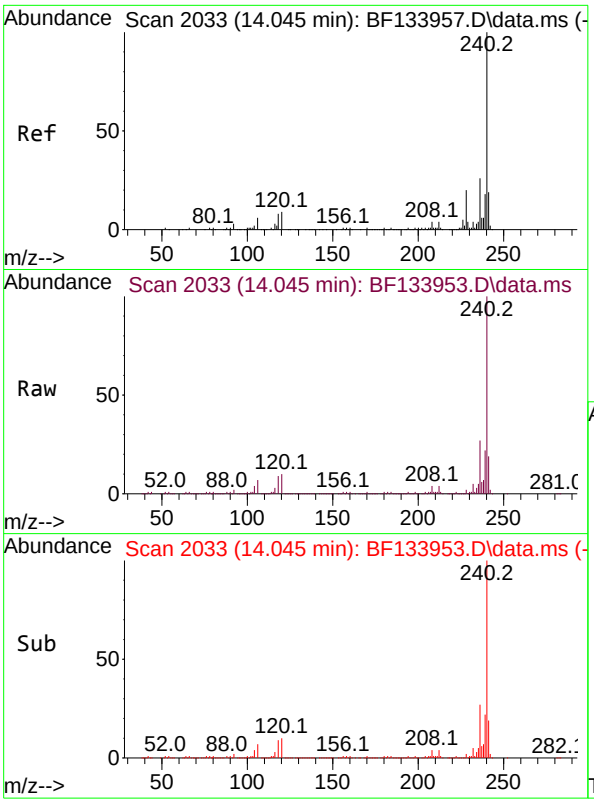


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.380 min Scan# 1580
Delta R.T. -0.006 min
Lab File: BF133953.D
Acq: 26 Jun 2023 15:19

Tgt Ion:188 Resp: 490437

Ion	Ratio	Lower	Upper
188	100		
94	9.4	6.4	9.6
80	10.3	7.3	10.9



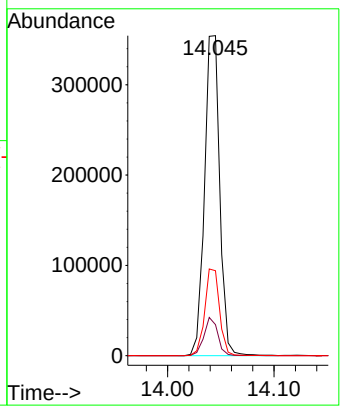


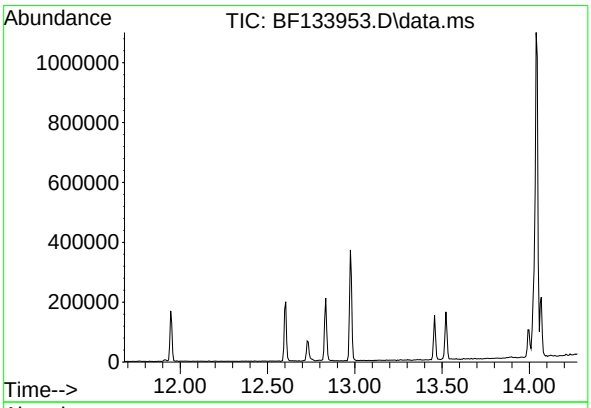
#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.045 min Scan# 2(
Delta R.T. 0.000 min
Lab File: BF133953.D
Acq: 26 Jun 2023 15:19

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion:240 Resp: 352413

Ion	Ratio	Lower	Upper
240	100		
120	9.7	7.4	11.0
236	26.6	21.0	31.6



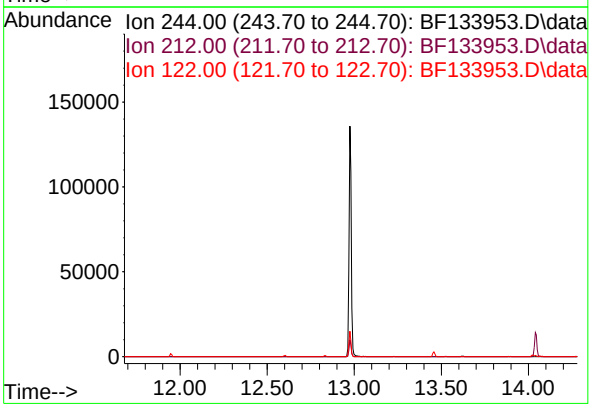


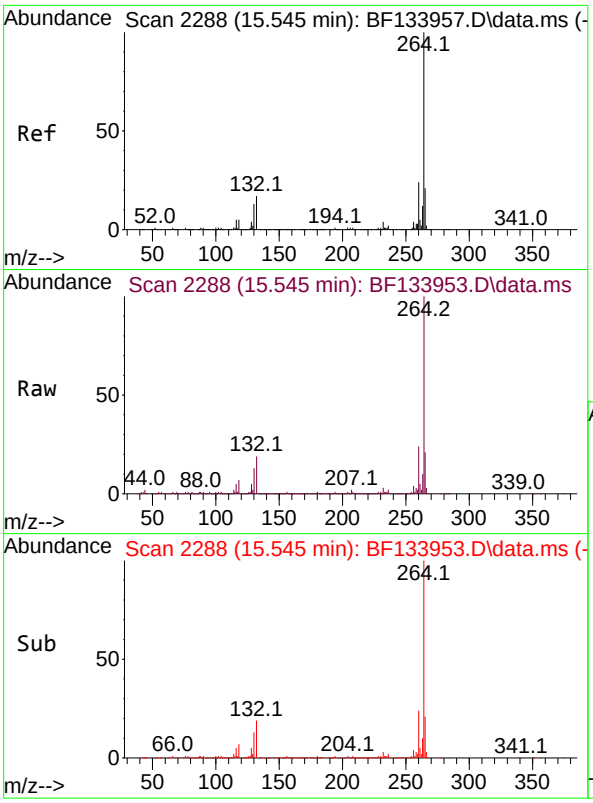
#79
Terphenyl-d14
Concen: 0.000 ng
Expected RT: 12.98 min

Lab File: BF133953.D
Acq: 26 Jun 2023 15:19

Tgt Ion: 244

Sig	Exp Ratio
244	100
212	7.5
122	10.4



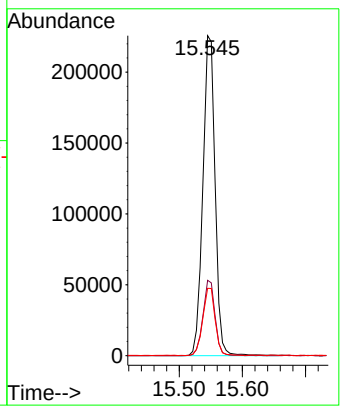


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.545 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF133953.D
Acq: 26 Jun 2023 15:19

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion:264 Resp: 303352

Ion	Ratio	Lower	Upper
264	100		
260	23.6	19.5	29.3
265	21.0	16.6	25.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF062623\
Data File : BF133954.D
Acq On : 26 Jun 2023 15:53
Operator : CG\JU
Sample : SSTDICC005
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 26 23:00:14 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF062623.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Jun 26 22:39:13 2023
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.851	152	119149	20.000	ng		0.00
21) Naphthalene-d8	8.128	136	466066	20.000	ng		0.00
39) Acenaphthene-d10	9.886	164	258799	20.000	ng		0.00
64) Phenanthrene-d10	11.380	188	507593	20.000	ng		0.00
76) Chrysene-d12	14.039	240	337311	20.000	ng		0.00
86) Perylene-d12	15.545	264	279632	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.481	112	79439	11.153	ng		0.00
7) Phenol-d6	6.475	99	99256	11.331	ng		-0.02
23) Nitrobenzene-d5	7.404	82	88794	10.270	ng		-0.01
42) 2,4,6-Tribromophenol	10.680	330	33573	10.347	ng		0.00
45) 2-Fluorobiphenyl	9.204	172	203707	11.444	ng		0.00
79) Terphenyl-d14	12.974	244	216342	10.322	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.640	88	15174	5.167	ng		96
3) Pyridine	3.451	79	38447m	5.009	ng		
4) n-Nitrosodimethylamine	3.369	42	21206	4.853	ng	#	99
6) Aniline	6.510	93	57017	5.349	ng		99
8) 2-Chlorophenol	6.634	128	40801	5.643	ng		97
9) Benzaldehyde	6.404	77	30656	4.295	ng		95
10) Phenol	6.492	94	52732	5.725	ng		93
11) bis(2-Chloroethyl)ether	6.581	93	37799	5.574	ng		98
12) 1,3-Dichlorobenzene	6.792	146	42774	5.549	ng		98
13) 1,4-Dichlorobenzene	6.869	146	43083	5.533	ng		97
14) 1,2-Dichlorobenzene	7.016	146	42426	5.818	ng		98
15) Benzyl Alcohol	6.986	79	36009	5.332	ng		97
16) 2,2'-oxybis(1-Chloropr...	7.122	45	66457	5.540	ng		98
17) 2-Methylphenol	7.098	107	34908	5.391	ng		96
18) Hexachloroethane	7.357	117	15844	5.488	ng		98
19) n-Nitroso-di-n-propyla...	7.251	70	30780	5.541	ng		97
20) 3+4-Methylphenols	7.251	107	45493	5.792	ng		92
22) Acetophenone	7.251	105	60909	5.746	ng	#	96
24) Nitrobenzene	7.428	77	43770	5.010	ng		99
25) Isophorone	7.663	82	82997	5.282	ng		99
26) 2-Nitrophenol	7.745	139	20105	4.797	ng		99
27) 2,4-Dimethylphenol	7.781	122	35038	5.281	ng		98
28) bis(2-Chloroethoxy)met...	7.875	93	48738	5.357	ng		97
29) 2,4-Dichlorophenol	7.986	162	35671	5.422	ng		96
30) 1,2,4-Trichlorobenzene	8.069	180	36671	5.402	ng		97
31) Naphthalene	8.151	128	125066	5.555	ng		99
32) Benzoic acid	7.845	122	19052	3.908	ng		92
33) 4-Chloroaniline	8.198	127	50864	5.282	ng		99
34) Hexachlorobutadiene	8.263	225	22691	5.299	ng		96
35) Caprolactam	8.533	113	10934	5.048	ng		89
36) 4-Chloro-3-methylphenol	8.680	107	39309	5.319	ng		94
37) 2-Methylnaphthalene	8.839	142	92731	5.825	ng		100
38) 1-Methylnaphthalene	8.939	142	87777	5.931	ng		97
40) 1,2,4,5-Tetrachloroben...	9.010	216	40505	5.283	ng		99
43) 2,4,6-Trichlorophenol	9.122	196	26682	5.112	ng		99
44) 2,4,5-Trichlorophenol	9.163	196	31933	5.201	ng	#	92

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF062623\
Data File : BF133954.D
Acq On : 26 Jun 2023 15:53
Operator : CG\JU
Sample : SSTDICC005
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 26 23:00:14 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF062623.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Jun 26 22:39:13 2023
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) 1,1'-Biphenyl	9.304	154	114159	5.499	ng		98
47) 2-Chloronaphthalene	9.333	162	83017	5.465	ng		94
48) 2-Nitroaniline	9.427	65	26351	4.760	ng		95
49) Acenaphthylene	9.745	152	140342	5.409	ng		99
50) Dimethylphthalate	9.604	163	99873	5.316	ng		98
51) 2,6-Dinitrotoluene	9.669	165	20422	5.047	ng		97
52) Acenaphthene	9.922	154	80335	5.336	ng		97
53) 3-Nitroaniline	9.839	138	24390	5.025	ng		94
55) Dibenzofuran	10.092	168	132215	5.619	ng		95
56) 4-Nitrophenol	10.004	139	15280	4.500	ng		95
57) 2,4-Dinitrotoluene	10.074	165	26987	5.050	ng		94
58) Fluorene	10.433	166	102553	5.602	ng		95
59) 2,3,4,6-Tetrachlorophenol	10.210	232	25362	5.237	ng		96
60) Diethylphthalate	10.304	149	105495	5.390	ng		99
61) 4-Chlorophenyl-phenyle...	10.427	204	50008	5.669	ng		98
62) 4-Nitroaniline	10.451	138	24563	5.021	ng		97
63) Azobenzene	10.592	77	99048	5.350	ng		97
65) 4,6-Dinitro-2-methylph...	10.486	198	10676	3.858	ng		94
66) n-Nitrosodiphenylamine	10.545	169	91156	5.621	ng		99
67) 4-Bromophenyl-phenylether	10.921	248	28761	5.331	ng		97
68) Hexachlorobenzene	10.986	284	30637	5.348	ng		99
69) Atrazine	11.074	200	24628	5.490	ng		98
70) Pentachlorophenol	11.186	266	15106	4.410	ng		94
71) Phenanthrene	11.404	178	141950	5.555	ng		98
72) Anthracene	11.457	178	150236	5.653	ng		98
73) Carbazole	11.616	167	137930	5.670	ng		99
74) Di-n-butylphthalate	11.945	149	160544	5.549	ng		99
75) Fluoranthene	12.598	202	162979	5.900	ng		98
78) Pyrene	12.833	202	152093	4.845	ng		96
80) Butylbenzylphthalate	13.457	149	56350	4.786	ng		91
81) Benzo(a)anthracene	14.027	228	126521	5.408	ng		99
82) 3,3'-Dichlorobenzidine	13.992	252	41050	5.539	ng	#	93
83) Chrysene	14.062	228	124142	5.479	ng		98
84) Bis(2-ethylhexyl)phtha...	14.021	149	63508	4.695	ng		95
85) Di-n-octyl phthalate	14.639	149	89476	4.501	ng		99
87) Indeno(1,2,3-cd)pyrene	17.074	276	76543	3.945	ng		98
88) Benzo(b)fluoranthene	15.098	252	83024	5.049	ng		99
89) Benzo(k)fluoranthene	15.127	252	89182	5.327	ng		99
90) Benzo(a)pyrene	15.474	252	81559	5.130	ng		97
91) Dibenzo(a,h)anthracene	17.098	278	63655	4.016	ng		98
92) Benzo(g,h,i)perylene	17.545	276	67429	4.126	ng		98

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

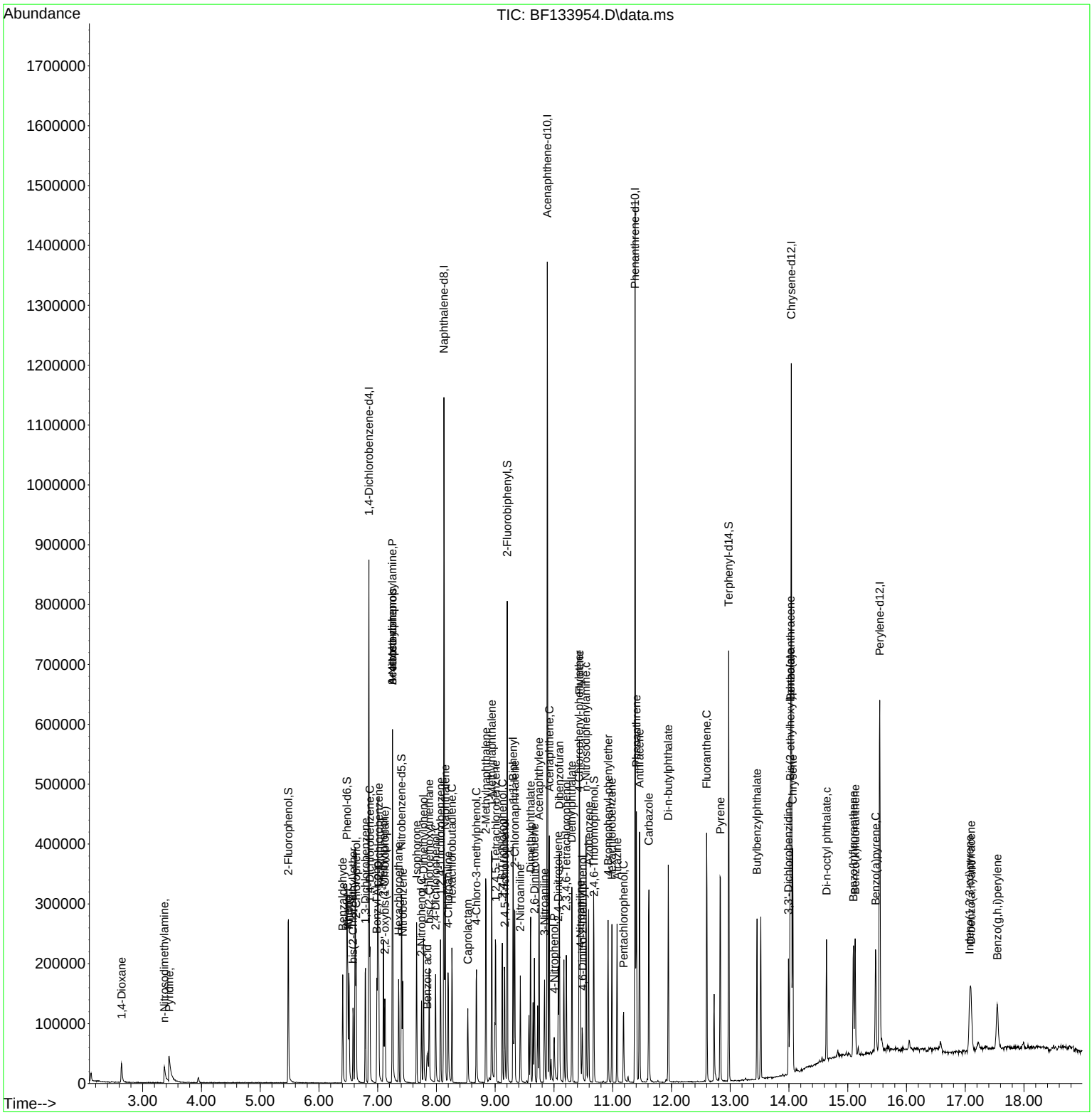
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF062623\
Data File : BF133954.D
Acq On : 26 Jun 2023 15:53
Operator : CG\JU
Sample : SSTDICC005
Misc :
ALS Vial : 3 Sample Multiplier: 1

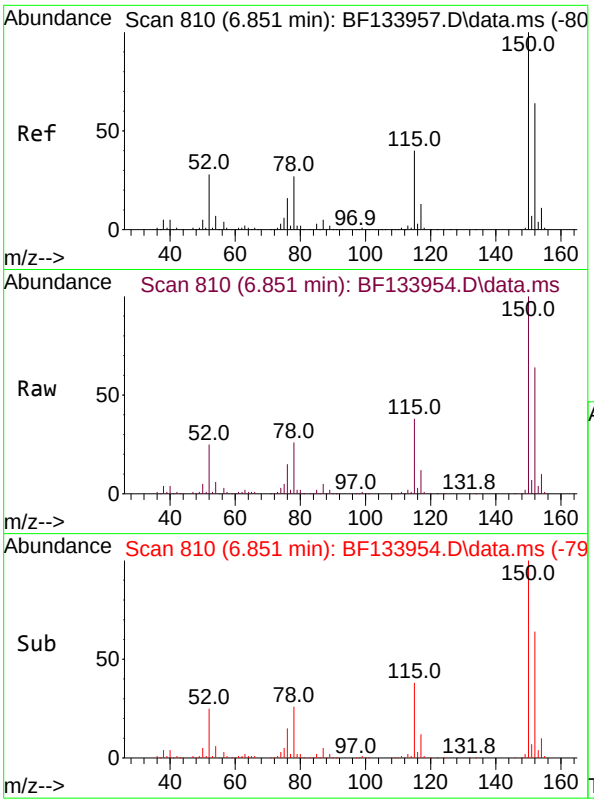
Quant Time: Jun 26 23:00:14 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF062623.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Jun 26 22:39:13 2023
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

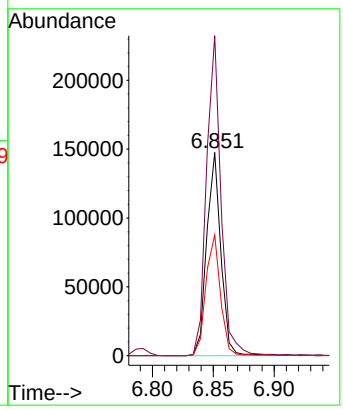




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.851 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF133954.D
Acq: 26 Jun 2023 15:53

Tgt Ion:152 Resp: 11914

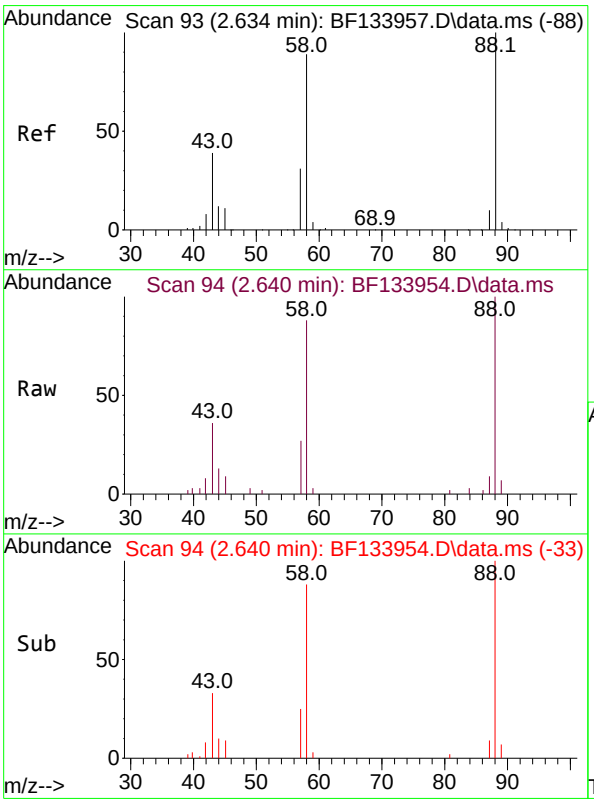
Ion	Ratio	Lower	Upper
152	100		
150	157.4	124.5	186.7
115	59.5	50.2	75.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

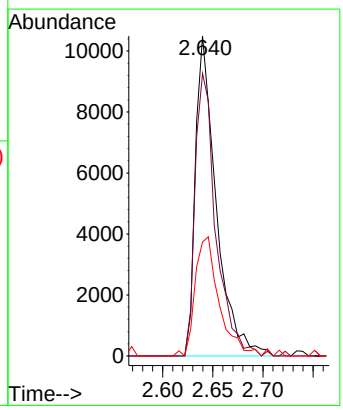
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

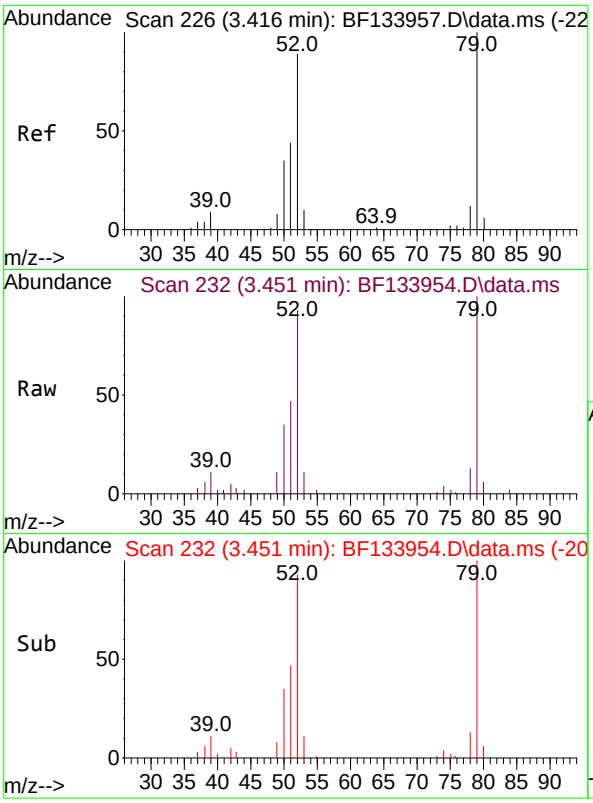


#2
1,4-Dioxane
Concen: 5.167 ng
RT: 2.640 min Scan# 94
Delta R.T. 0.006 min
Lab File: BF133954.D
Acq: 26 Jun 2023 15:53

Tgt Ion: 88 Resp: 15174

Ion	Ratio	Lower	Upper
88	100		
58	88.1	68.8	103.2
43	42.7	30.7	46.1

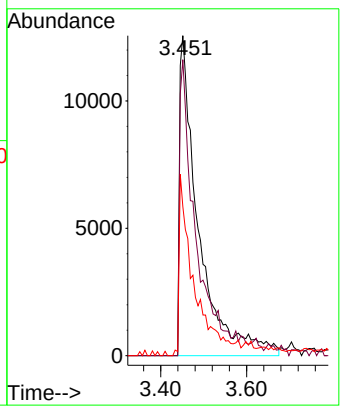




#3
Pyridine
Concen: 5.009 ng m
RT: 3.451 min Scan# 2
Delta R.T. 0.035 min
Lab File: BF133954.D
Acq: 26 Jun 2023 15:53

Tgt Ion: 79 Resp: 3844

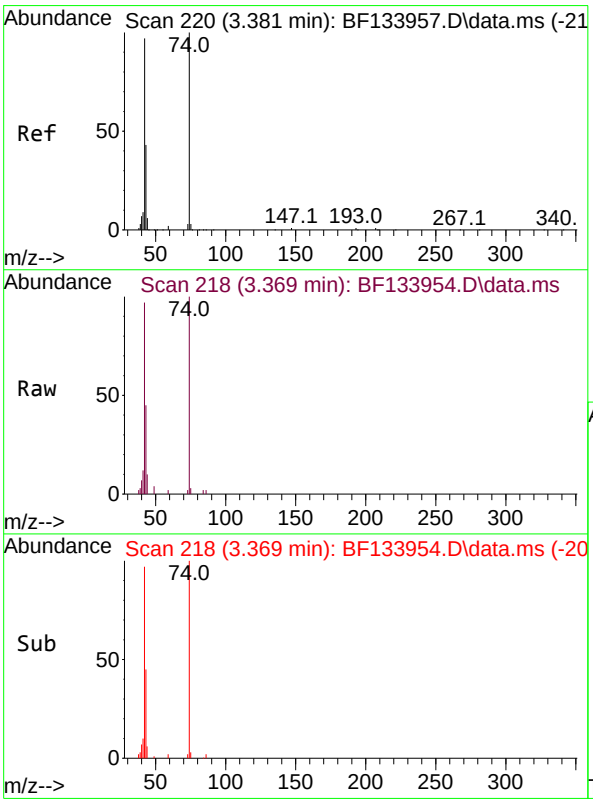
Ion	Ratio	Lower	Upper
79	100		
52	92.5	71.1	106.7
51	46.6	35.2	52.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

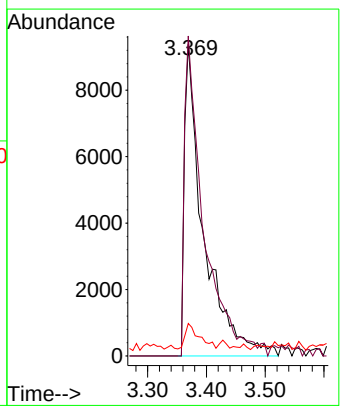
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

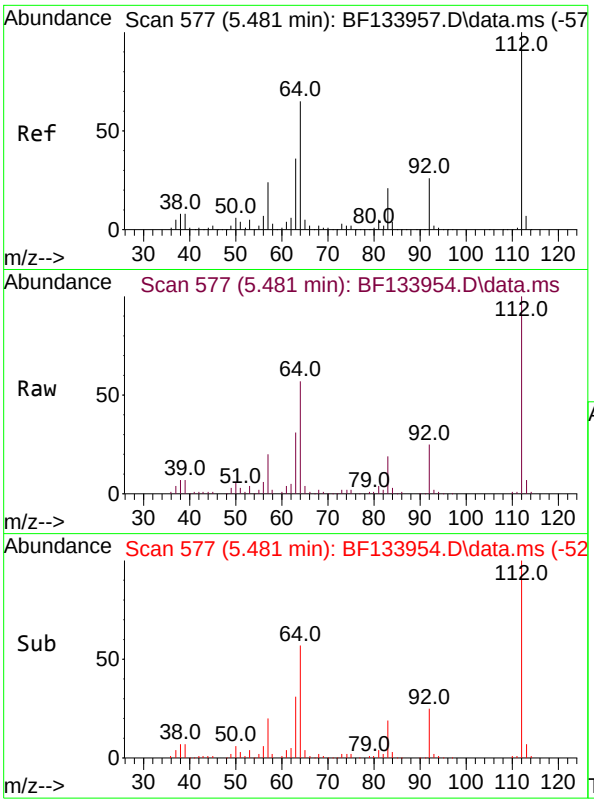


#4
n-Nitrosodimethylamine
Concen: 4.853 ng
RT: 3.369 min Scan# 218
Delta R.T. -0.012 min
Lab File: BF133954.D
Acq: 26 Jun 2023 15:53

Tgt Ion: 42 Resp: 21206

Ion	Ratio	Lower	Upper
42	100		
74	102.7	82.4	123.6
44	10.4	4.9	7.3#

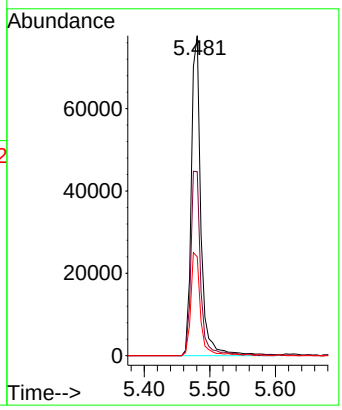




#5
2-Fluorophenol
Concen: 11.153 ng
RT: 5.481 min Scan# 5
Delta R.T. 0.000 min
Lab File: BF133954.D
Acq: 26 Jun 2023 15:53

Tgt Ion:112 Resp: 7943

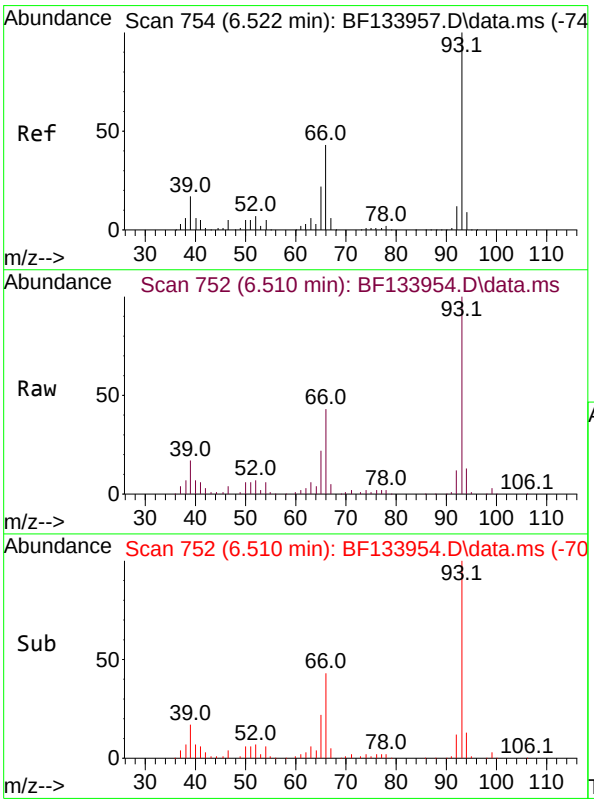
Ion	Ratio	Lower	Upper
112	100		
64	57.5	52.1	78.1
63	30.9	28.6	42.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

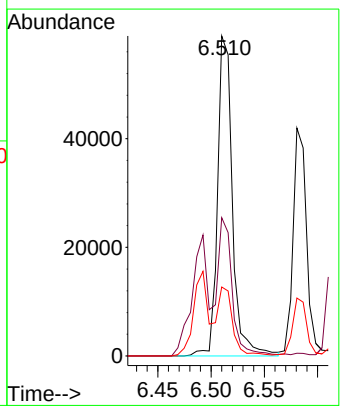
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

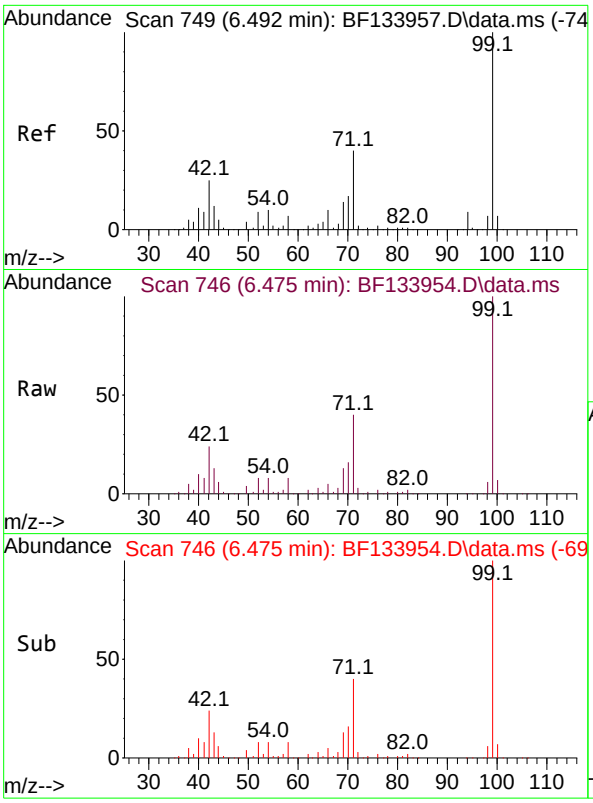


#6
Aniline
Concen: 5.349 ng
RT: 6.510 min Scan# 752
Delta R.T. -0.012 min
Lab File: BF133954.D
Acq: 26 Jun 2023 15:53

Tgt Ion: 93 Resp: 57017

Ion	Ratio	Lower	Upper
93	100		
66	43.2	34.5	51.7
65	21.5	17.8	26.6

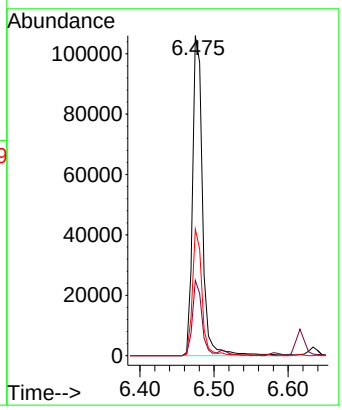




#7
Phenol-d6
Concen: 11.331 ng
RT: 6.475 min Scan# 7
Delta R.T. -0.018 min
Lab File: BF133954.D
Acq: 26 Jun 2023 15:53

Tgt Ion: 99 Resp: 9925

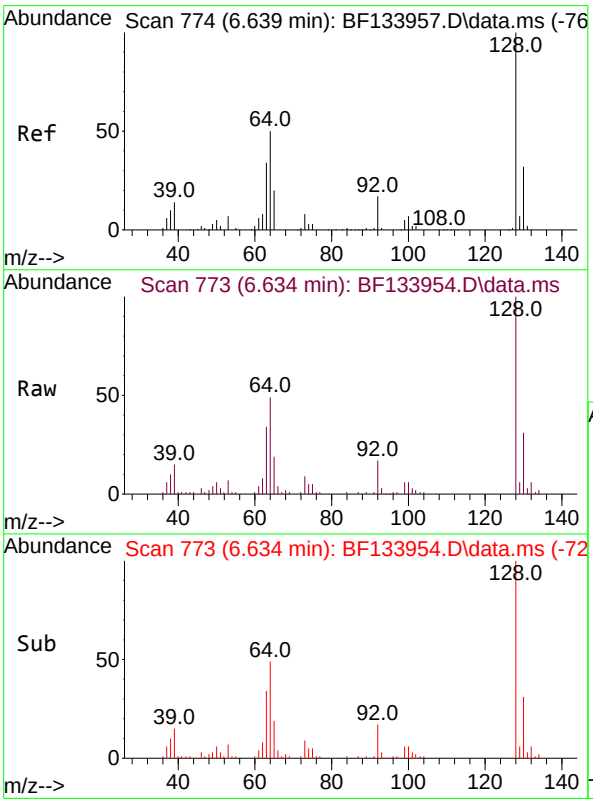
Ion	Ratio	Lower	Upper
99	100		
42	23.5	19.8	29.6
71	39.6	31.9	47.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

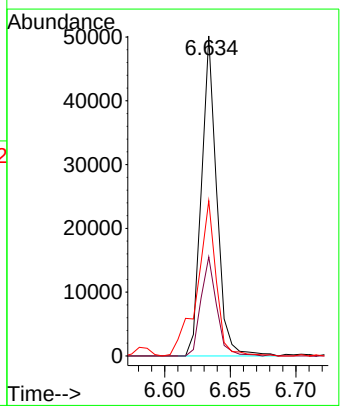
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

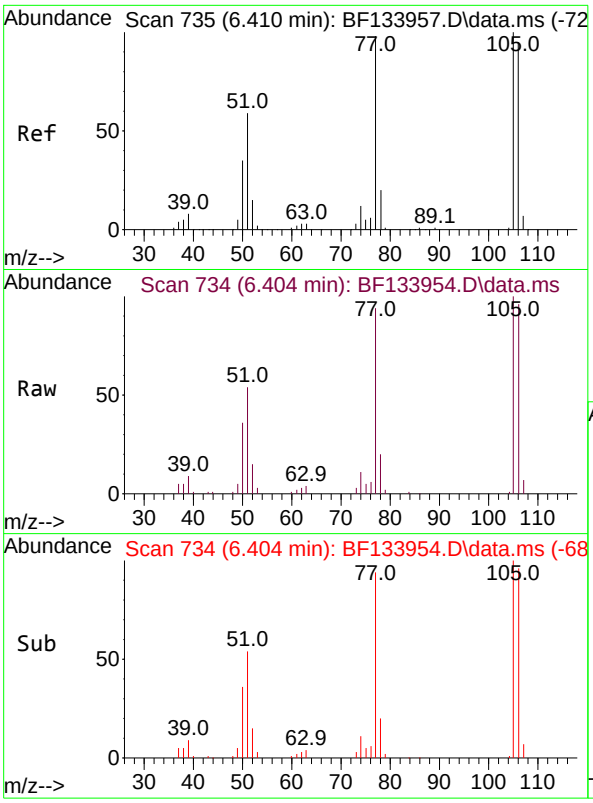


#8
2-Chlorophenol
Concen: 5.643 ng
RT: 6.634 min Scan# 773
Delta R.T. -0.006 min
Lab File: BF133954.D
Acq: 26 Jun 2023 15:53

Tgt Ion:128 Resp: 40801

Ion	Ratio	Lower	Upper
128	100		
130	31.0	11.7	51.7
64	48.5	31.3	71.3

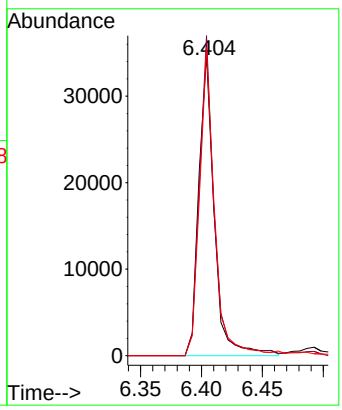




#9
Benzaldehyde
Concen: 4.295 ng
RT: 6.404 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF133954.D
Acq: 26 Jun 2023 15:53

Tgt Ion: 77 Resp: 3065

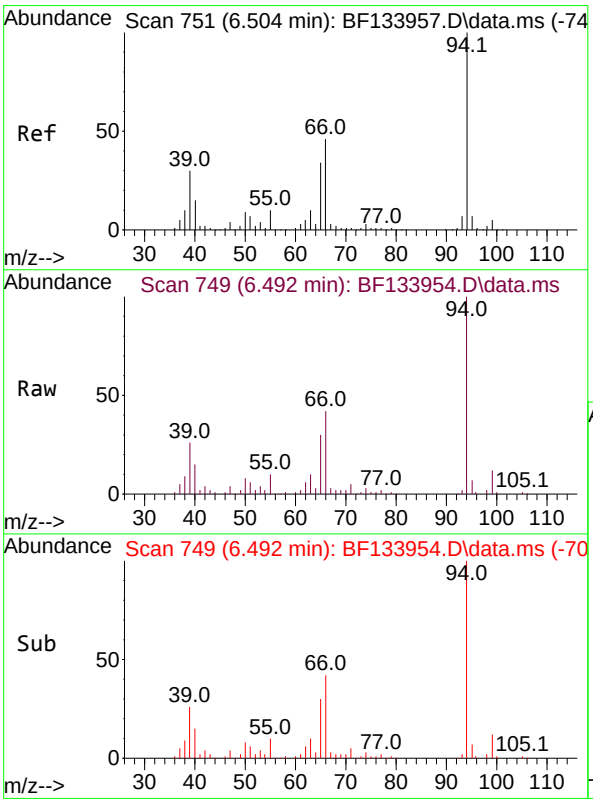
Ion	Ratio	Lower	Upper
77	100		
105	106.5	82.0	122.0
106	102.7	76.9	116.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

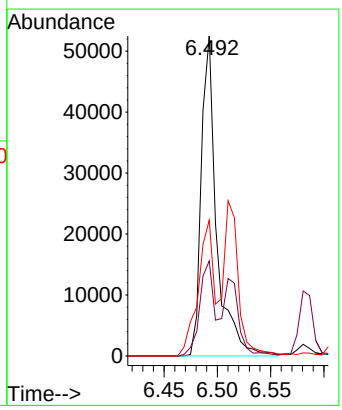
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

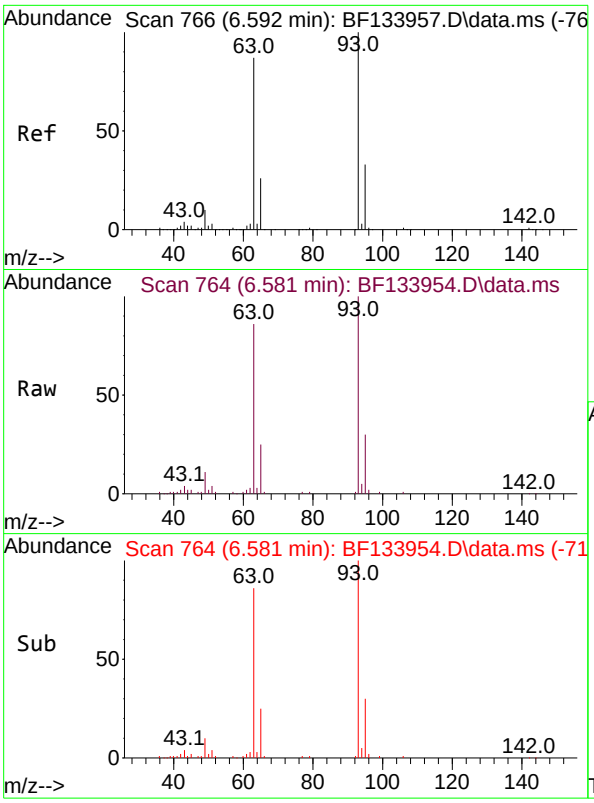


#10
Phenol
Concen: 5.725 ng
RT: 6.492 min Scan# 749
Delta R.T. -0.012 min
Lab File: BF133954.D
Acq: 26 Jun 2023 15:53

Tgt Ion: 94 Resp: 52732

Ion	Ratio	Lower	Upper
94	100		
65	29.7	14.2	54.2
66	42.4	26.4	66.4

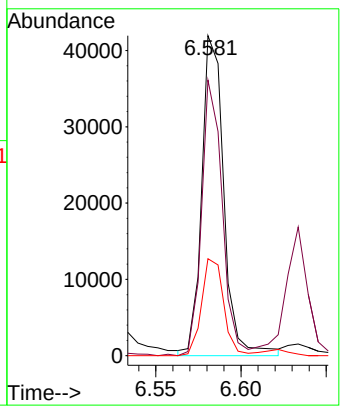




#11
bis(2-Chloroethyl)ether
Concen: 5.574 ng
RT: 6.581 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF133954.D
Acq: 26 Jun 2023 15:53

Tgt Ion: 93 Resp: 3779

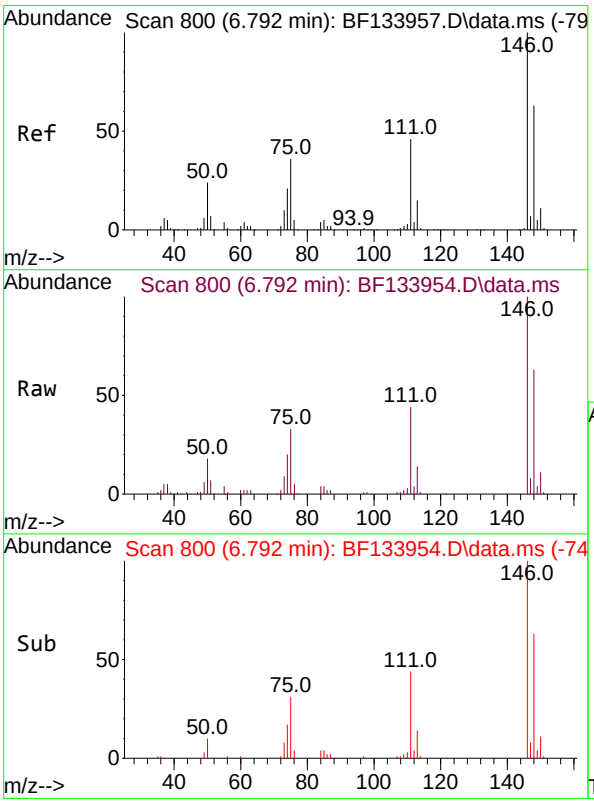
Ion	Ratio	Lower	Upper
93	100		
63	86.1	66.5	106.5
95	30.3	12.9	52.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

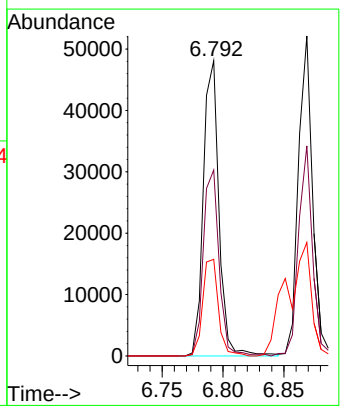
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

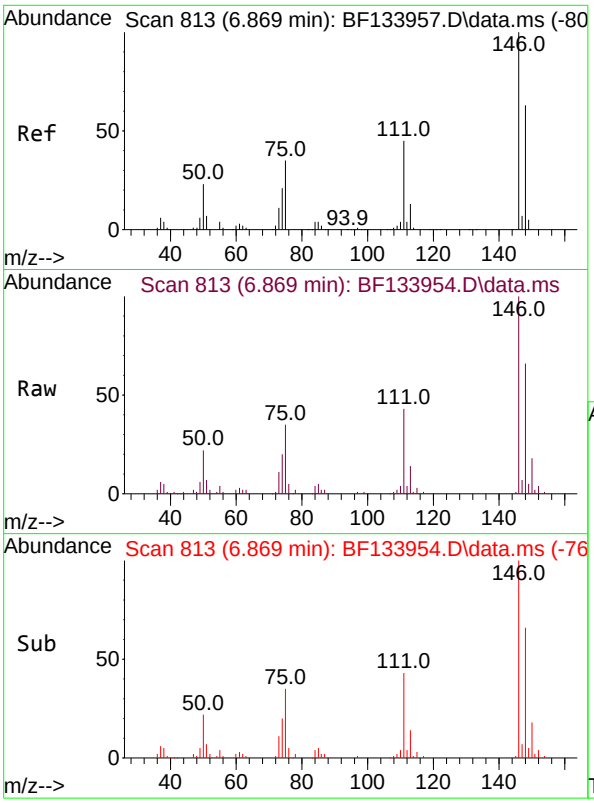


#12
1,3-Dichlorobenzene
Concen: 5.549 ng
RT: 6.792 min Scan# 800
Delta R.T. 0.000 min
Lab File: BF133954.D
Acq: 26 Jun 2023 15:53

Tgt Ion:146 Resp: 42774

Ion	Ratio	Lower	Upper
146	100		
148	63.0	50.5	75.7
75	32.7	29.0	43.6

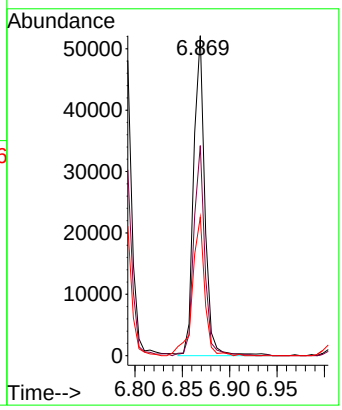




#13
1,4-Dichlorobenzene
Concen: 5.533 ng
RT: 6.869 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF133954.D
Acq: 26 Jun 2023 15:53

Tgt Ion:146 Resp: 4308

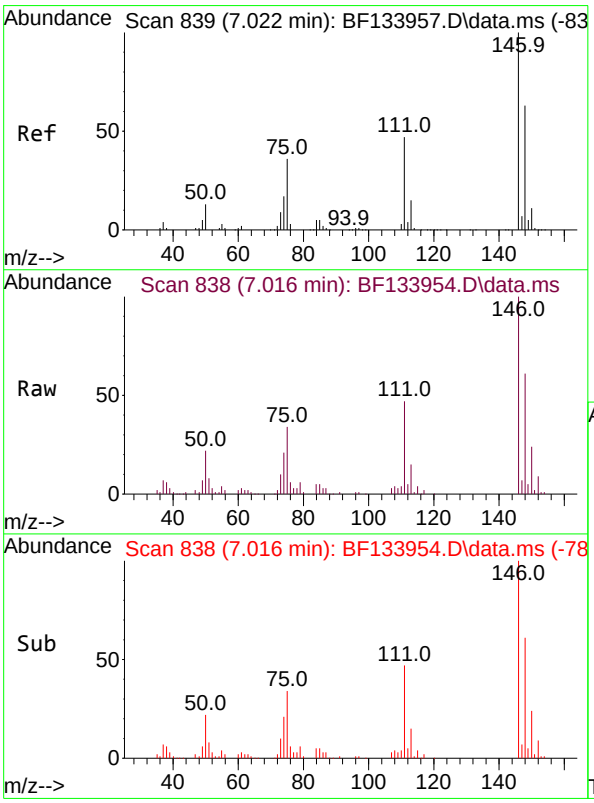
Ion	Ratio	Lower	Upper
146	100		
148	65.7	50.2	75.2
111	43.3	35.8	53.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

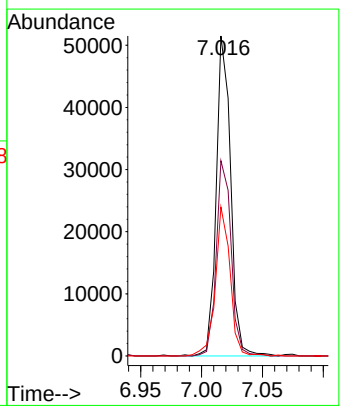
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

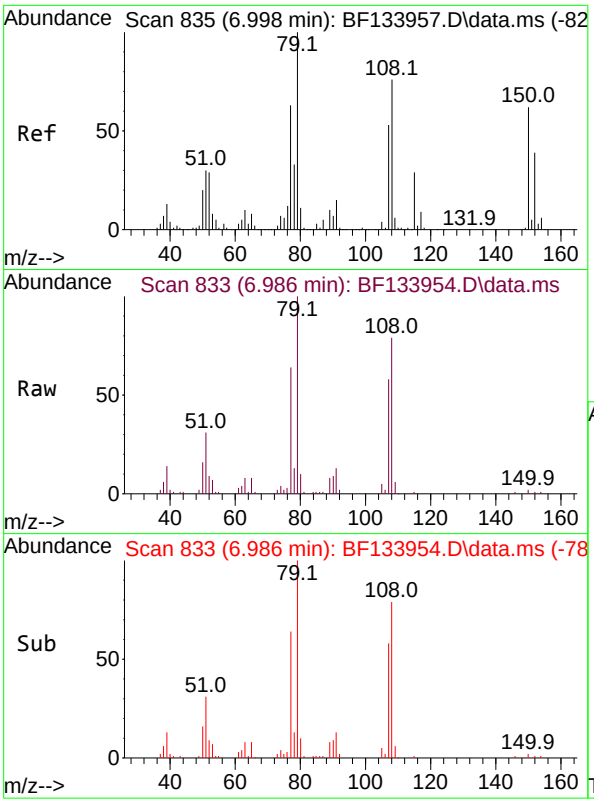


#14
1,2-Dichlorobenzene
Concen: 5.818 ng
RT: 7.016 min Scan# 838
Delta R.T. -0.006 min
Lab File: BF133954.D
Acq: 26 Jun 2023 15:53

Tgt Ion:146 Resp: 42426

Ion	Ratio	Lower	Upper
146	100		
148	61.0	50.6	76.0
111	46.5	38.0	57.0

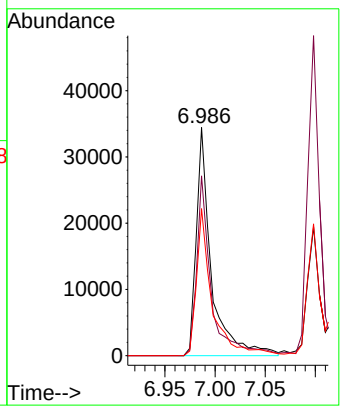




#15
Benzyl Alcohol
Concen: 5.332 ng
RT: 6.986 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF133954.D
Acq: 26 Jun 2023 15:53

Tgt Ion: 79 Resp: 3600

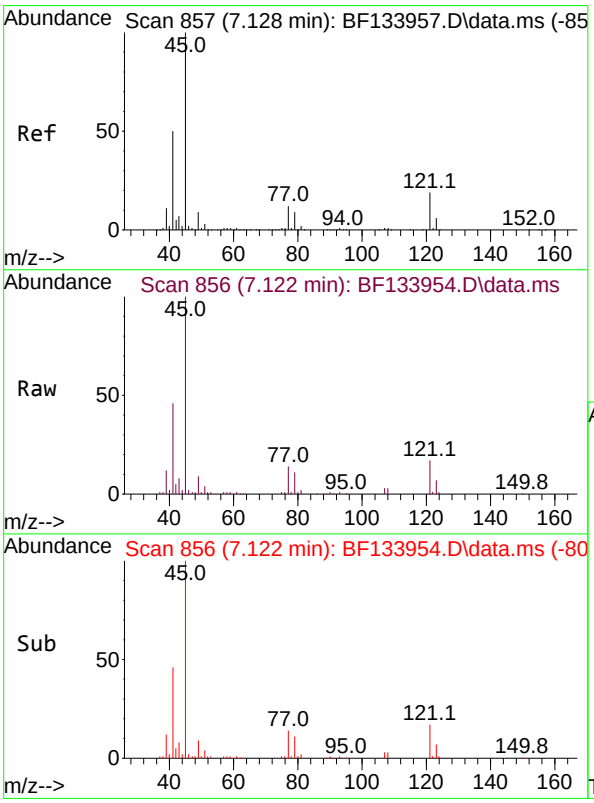
Ion	Ratio	Lower	Upper
79	100		
108	78.9	60.7	91.1
77	64.4	50.6	75.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

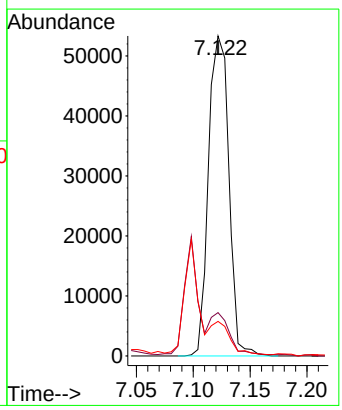
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

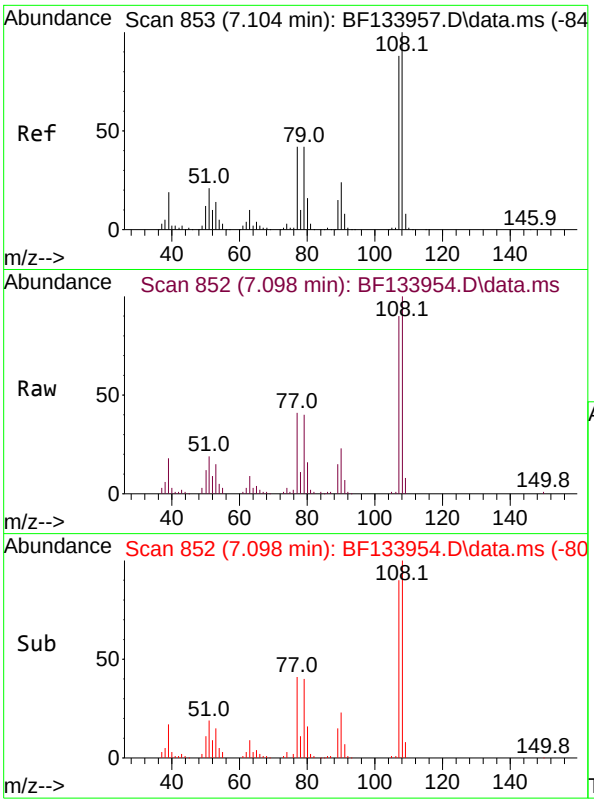


#16
2,2'-oxybis(1-Chloropropane)
Concen: 5.540 ng
RT: 7.122 min Scan# 856
Delta R.T. -0.006 min
Lab File: BF133954.D
Acq: 26 Jun 2023 15:53

Tgt Ion: 45 Resp: 66457

Ion	Ratio	Lower	Upper
45	100		
77	13.6	0.0	32.9
79	10.8	0.0	29.5

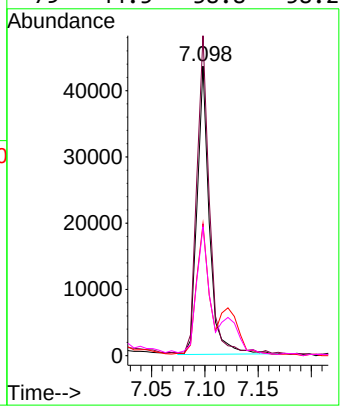




#17
2-Methylphenol
Concen: 5.391 ng
RT: 7.098 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF133954.D
Acq: 26 Jun 2023 15:53

Tgt Ion:107 Resp: 3490

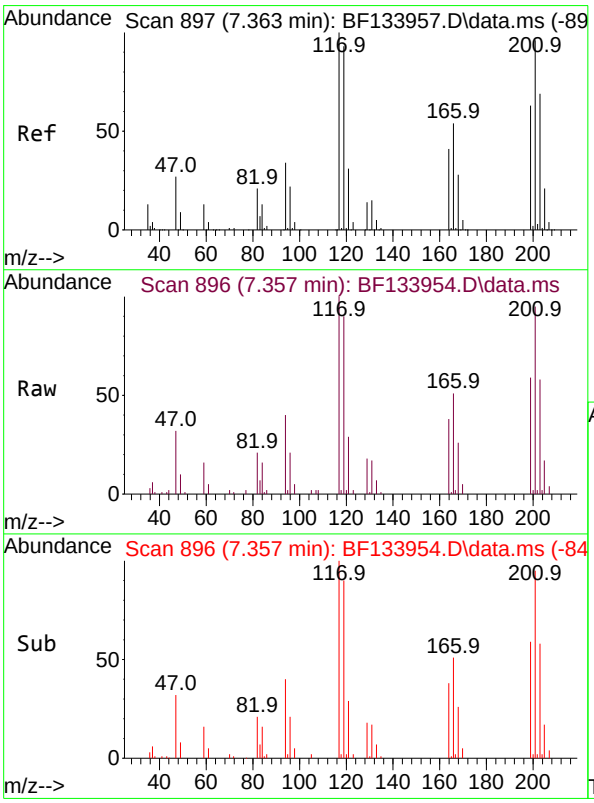
Ion	Ratio	Lower	Upper
107	100		
108	110.5	90.6	136.0
77	45.5	38.3	57.5
79	44.5	38.8	58.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

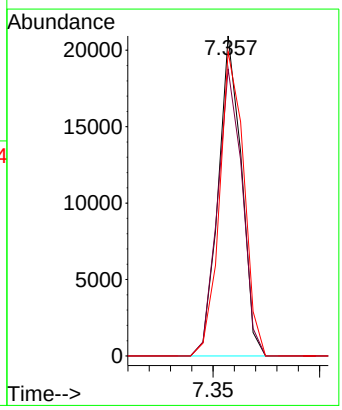
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

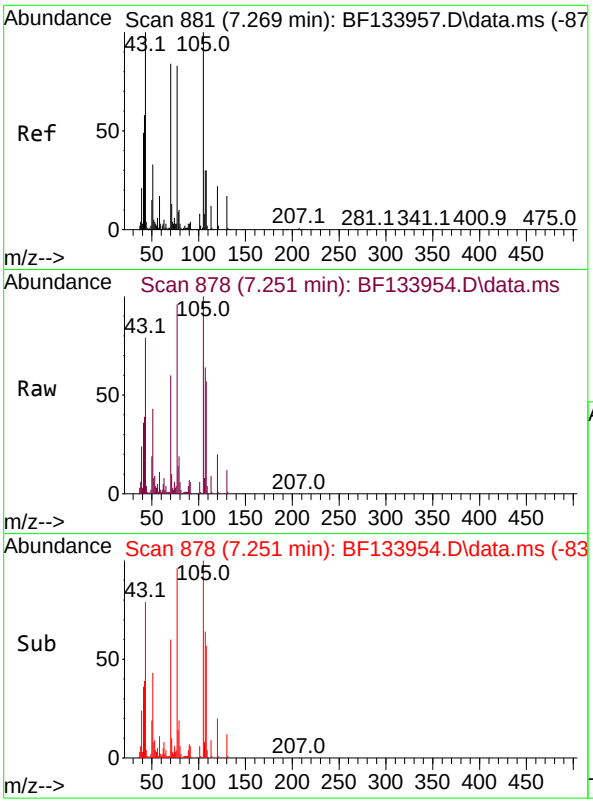


#18
Hexachloroethane
Concen: 5.488 ng
RT: 7.357 min Scan# 896
Delta R.T. -0.006 min
Lab File: BF133954.D
Acq: 26 Jun 2023 15:53

Tgt Ion:117 Resp: 15844

Ion	Ratio	Lower	Upper
117	100		
119	89.7	74.2	111.4
201	95.1	77.2	115.8

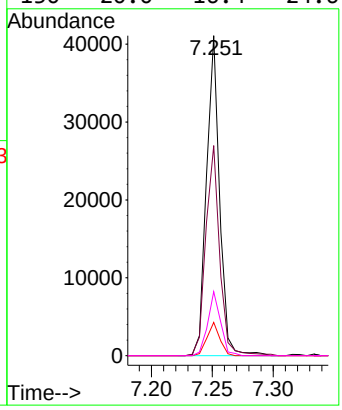




#19
n-Nitroso-di-n-propylamine
Concen: 5.541 ng
RT: 7.251 min Scan# 8
Delta R.T. -0.018 min
Lab File: BF133954.D
Acq: 26 Jun 2023 15:53

Tgt Ion: 70 Resp: 3078

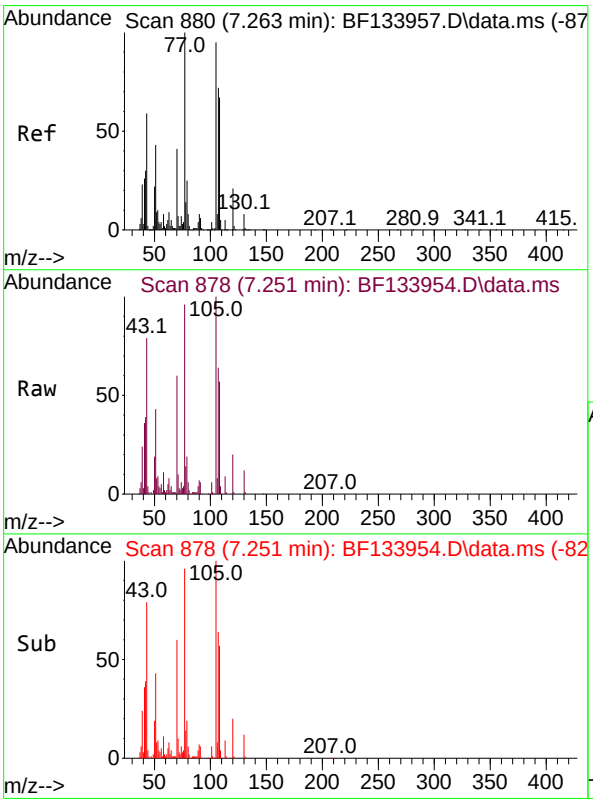
Ion	Ratio	Lower	Upper
70	100		
42	65.7	54.7	82.1
101	10.4	7.7	11.5
130	20.0	16.4	24.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

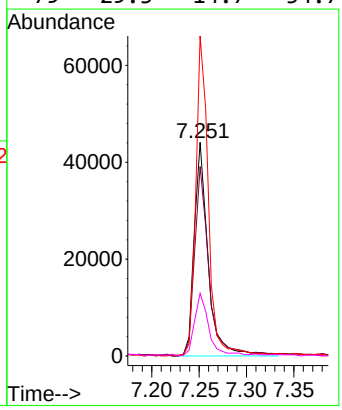
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

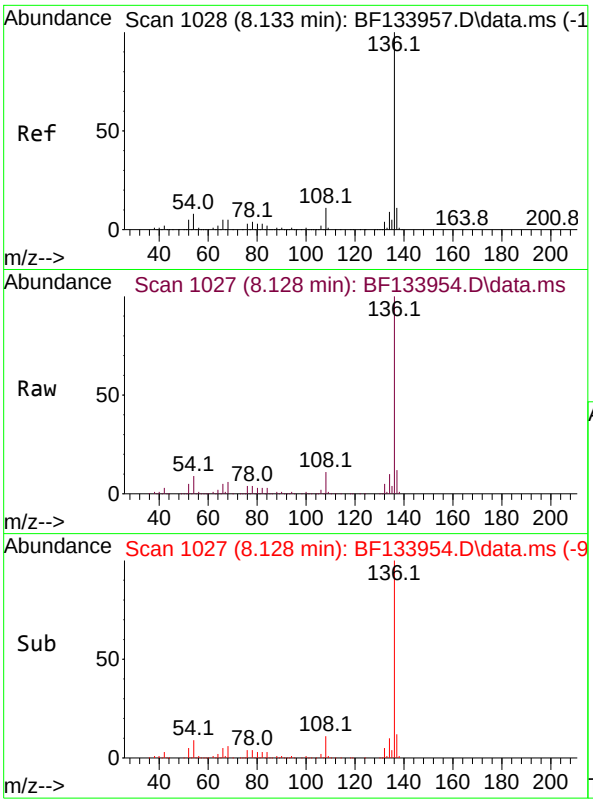


#20
3+4-Methylphenols
Concen: 5.792 ng
RT: 7.251 min Scan# 878
Delta R.T. -0.012 min
Lab File: BF133954.D
Acq: 26 Jun 2023 15:53

Tgt Ion:107 Resp: 45493

Ion	Ratio	Lower	Upper
107	100		
108	88.7	73.2	113.2
77	149.8	118.3	158.3
79	29.3	14.7	54.7

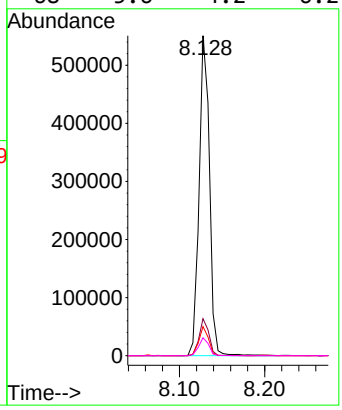




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.128 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF133954.D
Acq: 26 Jun 2023 15:53

Tgt Ion:136 Resp: 46606

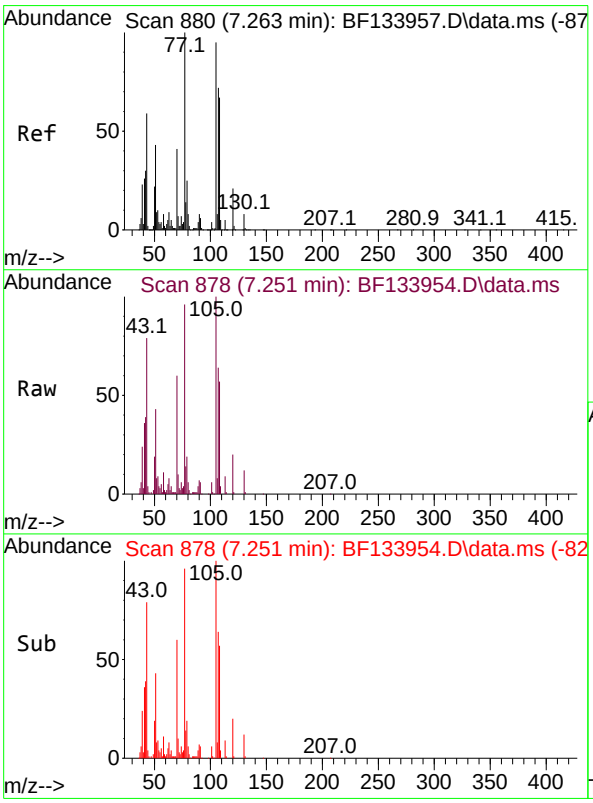
Ion	Ratio	Lower	Upper
136	100		
137	11.5	8.6	12.8
54	9.1	6.5	9.7
68	5.6	4.2	6.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

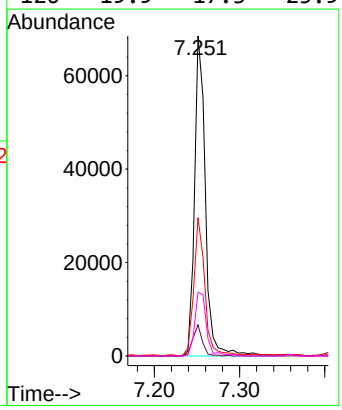
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

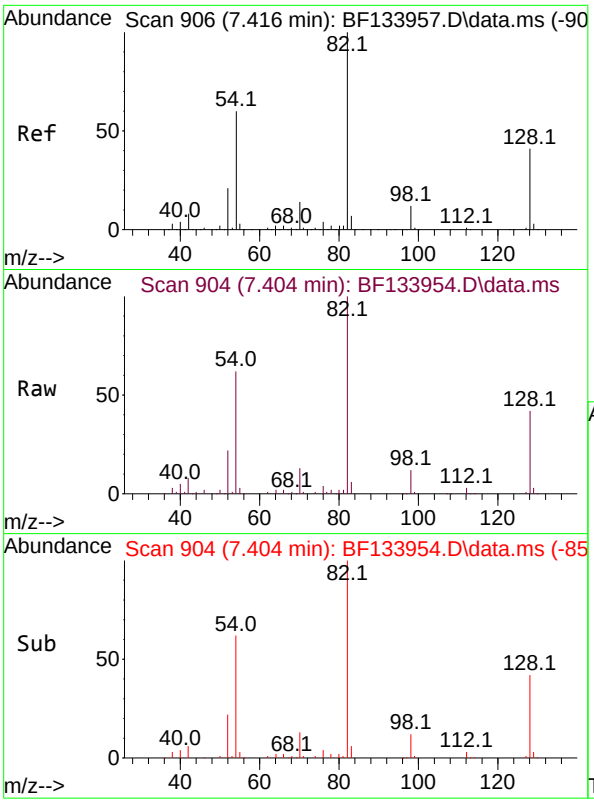


#22
Acetophenone
Concen: 5.746 ng
RT: 7.251 min Scan# 878
Delta R.T. -0.012 min
Lab File: BF133954.D
Acq: 26 Jun 2023 15:53

Tgt Ion:105 Resp: 60909

Ion	Ratio	Lower	Upper
105	100		
71	9.7	5.5	8.3#
51	43.2	36.5	54.7
120	19.9	17.3	25.9

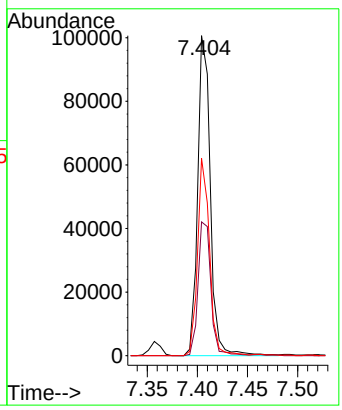




#23
Nitrobenzene-d5
Concen: 10.270 ng
RT: 7.404 min Scan# 9
Delta R.T. -0.012 min
Lab File: BF133954.D
Acq: 26 Jun 2023 15:53

Tgt Ion: 82 Resp: 8879

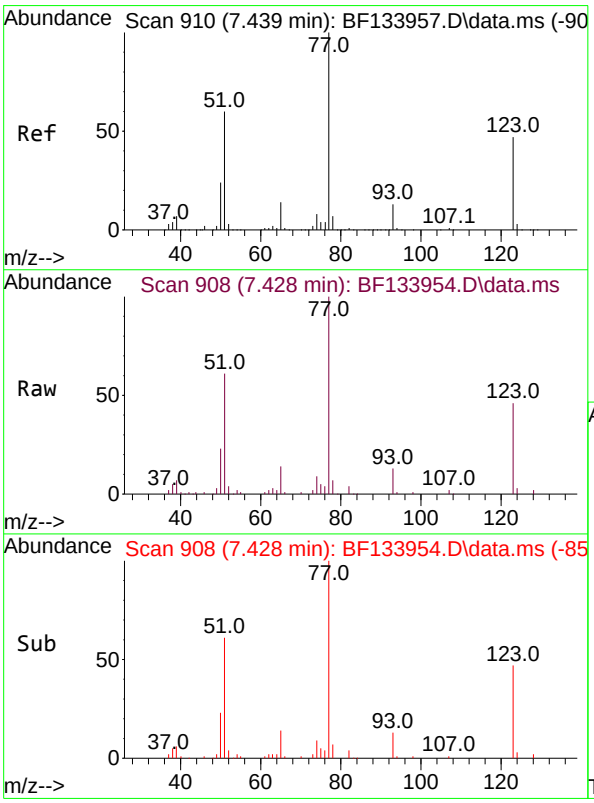
Ion	Ratio	Lower	Upper
82	100		
128	41.8	32.5	48.7
54	61.7	48.2	72.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

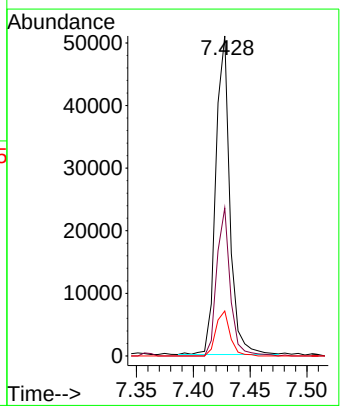
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

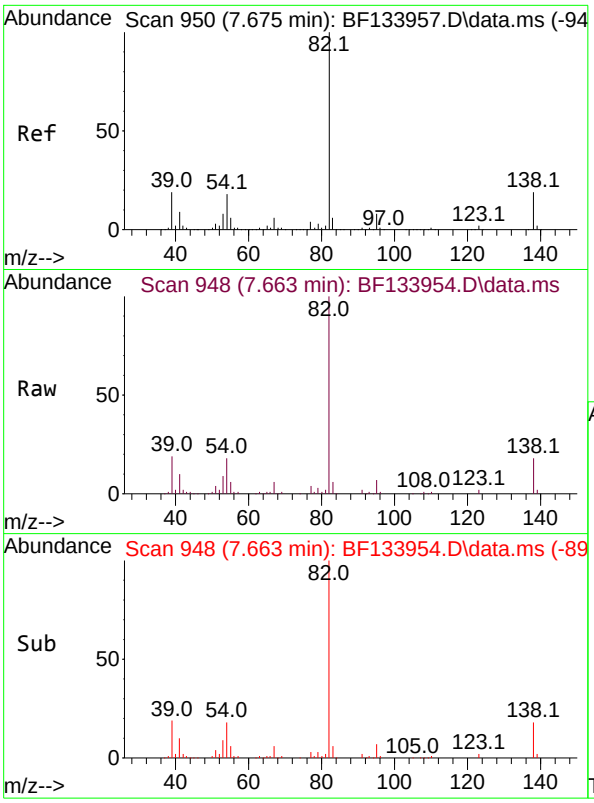


#24
Nitrobenzene
Concen: 5.010 ng
RT: 7.428 min Scan# 908
Delta R.T. -0.012 min
Lab File: BF133954.D
Acq: 26 Jun 2023 15:53

Tgt Ion: 77 Resp: 43770

Ion	Ratio	Lower	Upper
77	100		
123	46.2	37.8	56.6
65	14.1	11.3	16.9

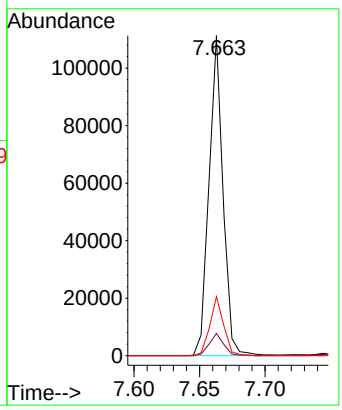




#25
Isophorone
Concen: 5.282 ng
RT: 7.663 min Scan# 94
Delta R.T. -0.012 min
Lab File: BF133954.D
Acq: 26 Jun 2023 15:53

Tgt Ion: 82 Resp: 8299

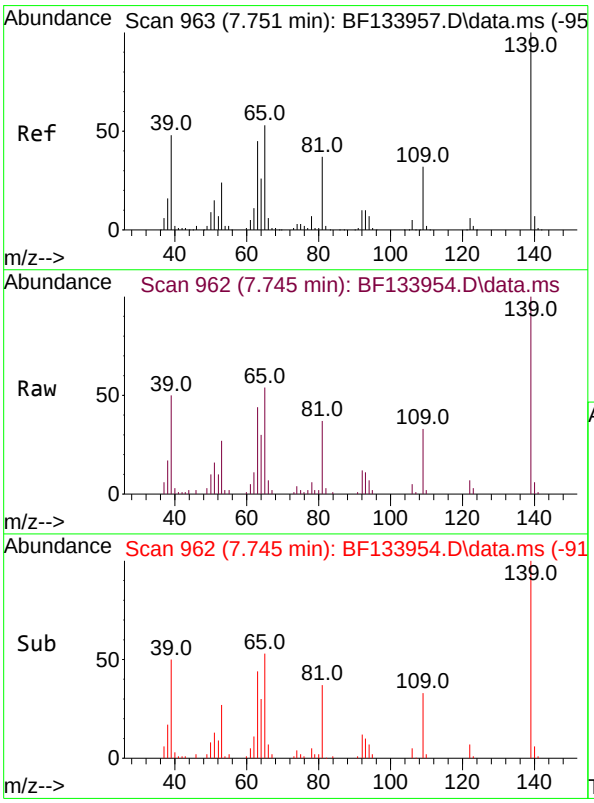
Ion	Ratio	Lower	Upper
82	100		
95	6.9	6.1	9.1
138	18.5	15.2	22.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

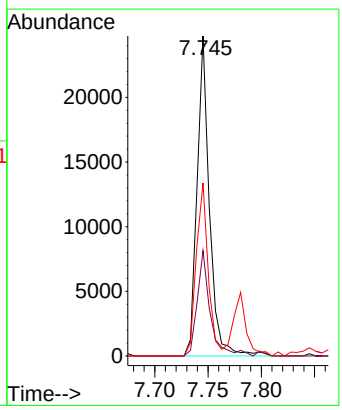
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

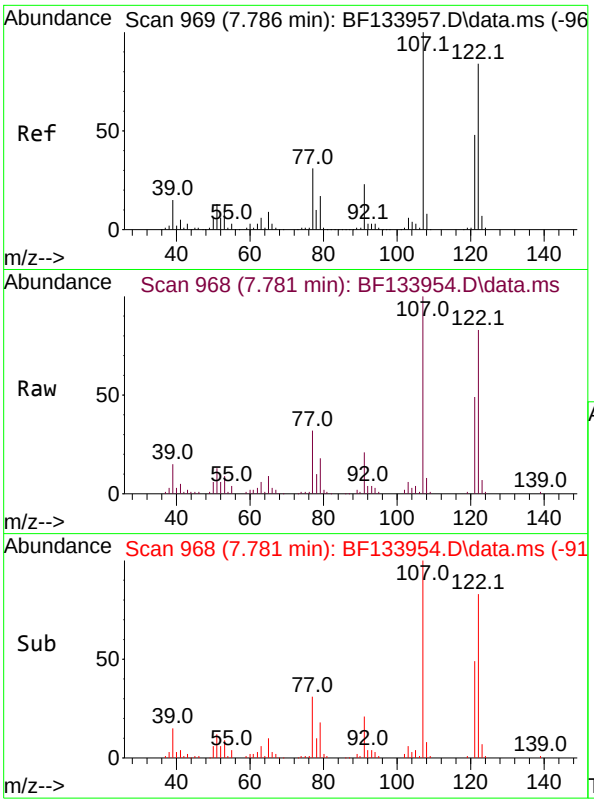


#26
2-Nitrophenol
Concen: 4.797 ng
RT: 7.745 min Scan# 962
Delta R.T. -0.006 min
Lab File: BF133954.D
Acq: 26 Jun 2023 15:53

Tgt Ion:139 Resp: 20105

Ion	Ratio	Lower	Upper
139	100		
109	32.9	25.8	38.8
65	54.1	42.4	63.6

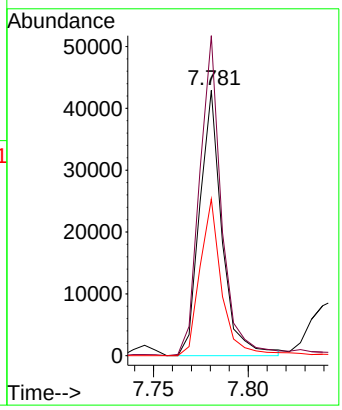




#27
2,4-Dimethylphenol
Concen: 5.281 ng
RT: 7.781 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF133954.D
Acq: 26 Jun 2023 15:53

Tgt Ion:122 Resp: 3503

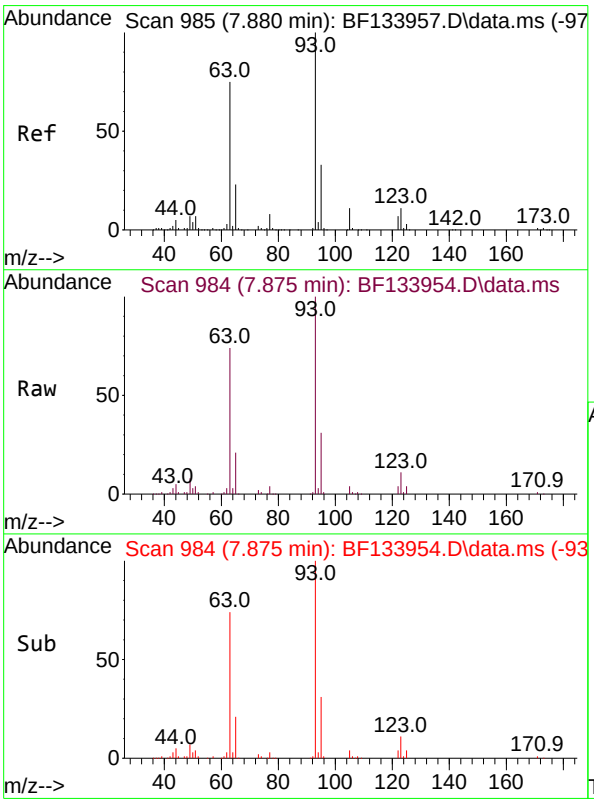
Ion	Ratio	Lower	Upper
122	100		
107	120.6	95.5	143.3
121	59.0	45.5	68.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

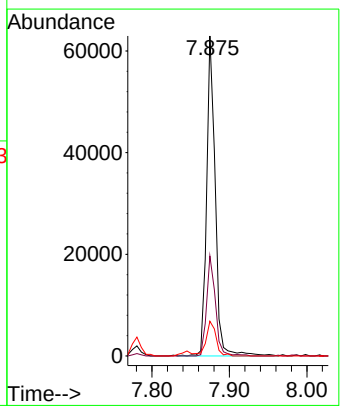
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

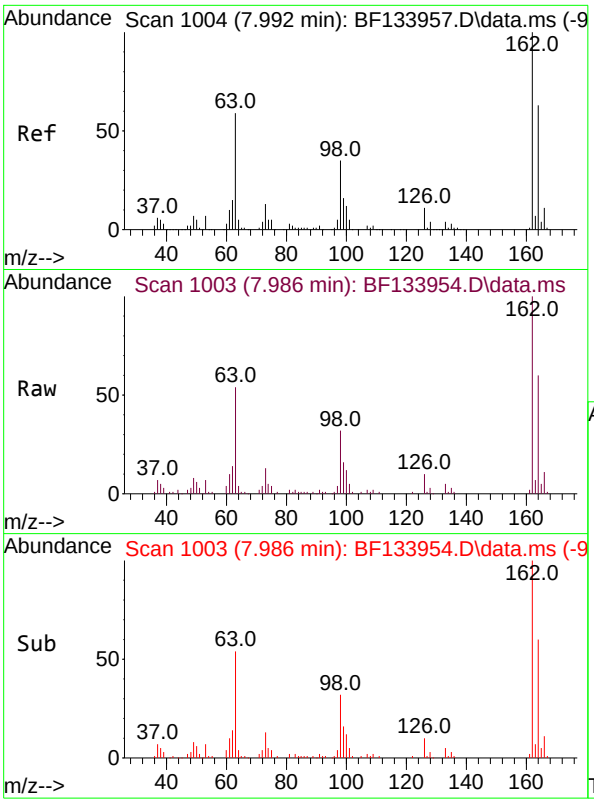


#28
bis(2-Chloroethoxy)methane
Concen: 5.357 ng
RT: 7.875 min Scan# 984
Delta R.T. -0.006 min
Lab File: BF133954.D
Acq: 26 Jun 2023 15:53

Tgt Ion: 93 Resp: 48738

Ion	Ratio	Lower	Upper
93	100		
95	31.2	26.5	39.7
123	10.9	9.1	13.7

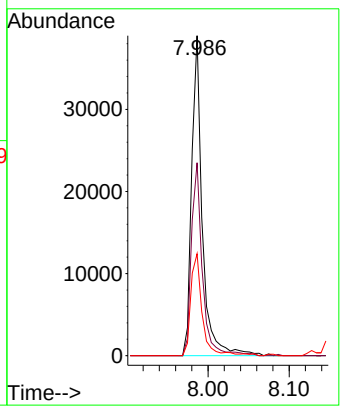




#29
2,4-Dichlorophenol
Concen: 5.422 ng
RT: 7.986 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF133954.D
Acq: 26 Jun 2023 15:53

Tgt Ion:162 Resp: 3567

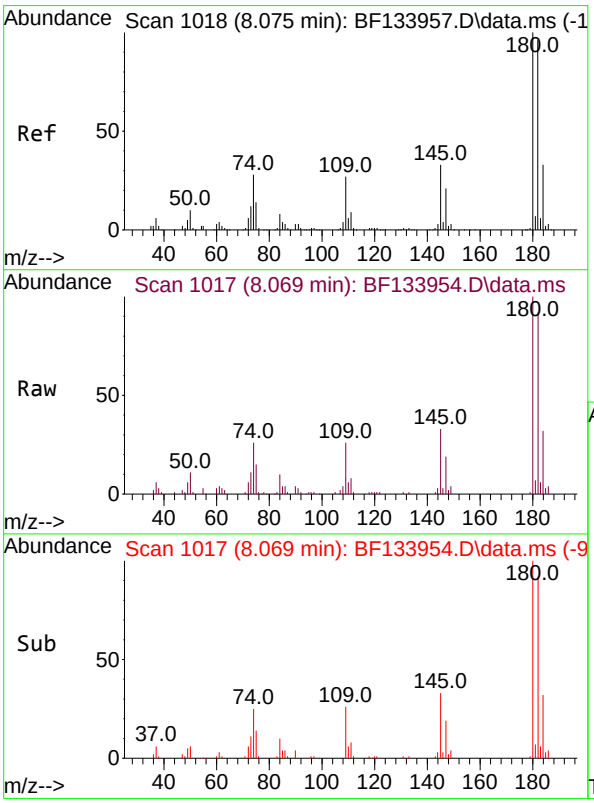
Ion	Ratio	Lower	Upper
162	100		
164	60.3	43.2	83.2
98	31.9	14.9	54.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

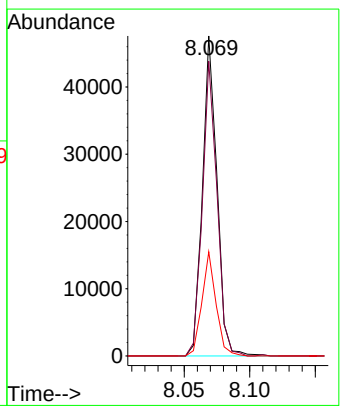
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

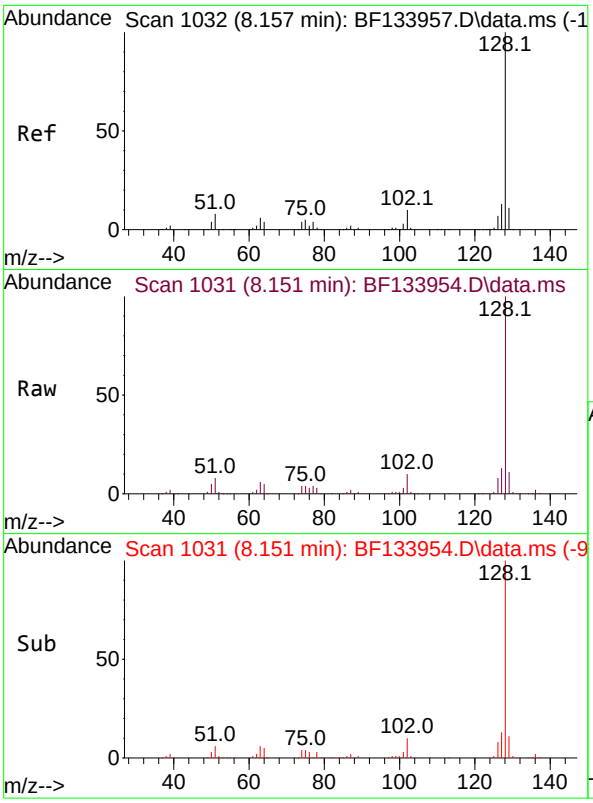


#30
1,2,4-Trichlorobenzene
Concen: 5.402 ng
RT: 8.069 min Scan# 1017
Delta R.T. -0.006 min
Lab File: BF133954.D
Acq: 26 Jun 2023 15:53

Tgt Ion:180 Resp: 36671

Ion	Ratio	Lower	Upper
180	100		
182	92.1	77.1	115.7
145	32.5	26.0	39.0

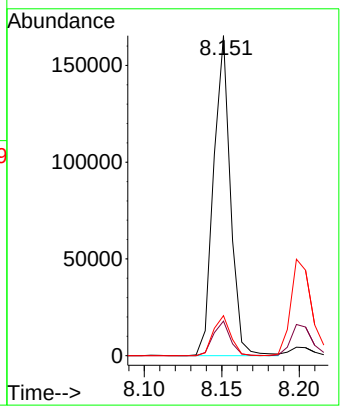




#31
Naphthalene
Concen: 5.555 ng
RT: 8.151 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF133954.D
Acq: 26 Jun 2023 15:53

Tgt Ion:128 Resp: 12506

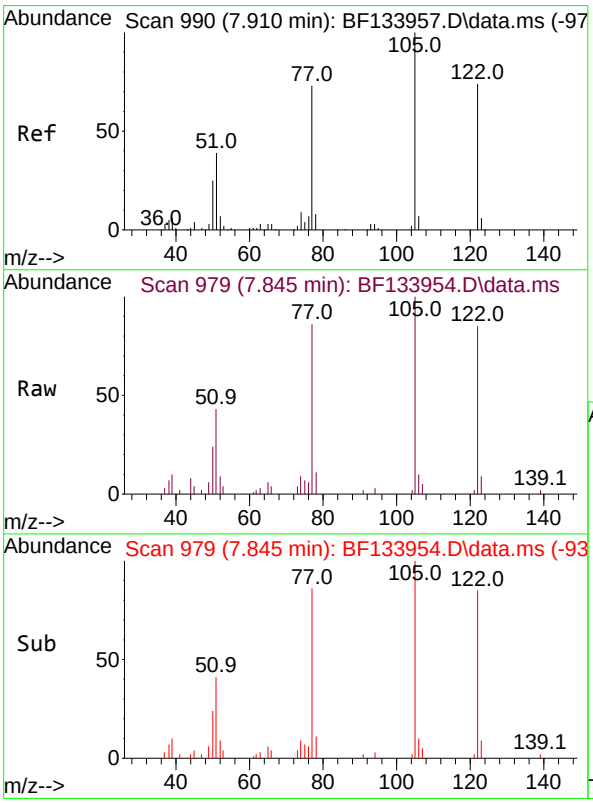
Ion	Ratio	Lower	Upper
128	100		
129	10.8	8.7	13.1
127	12.5	10.6	15.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

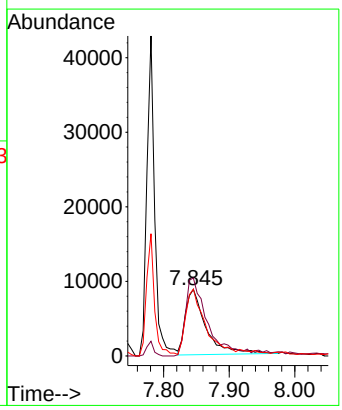
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

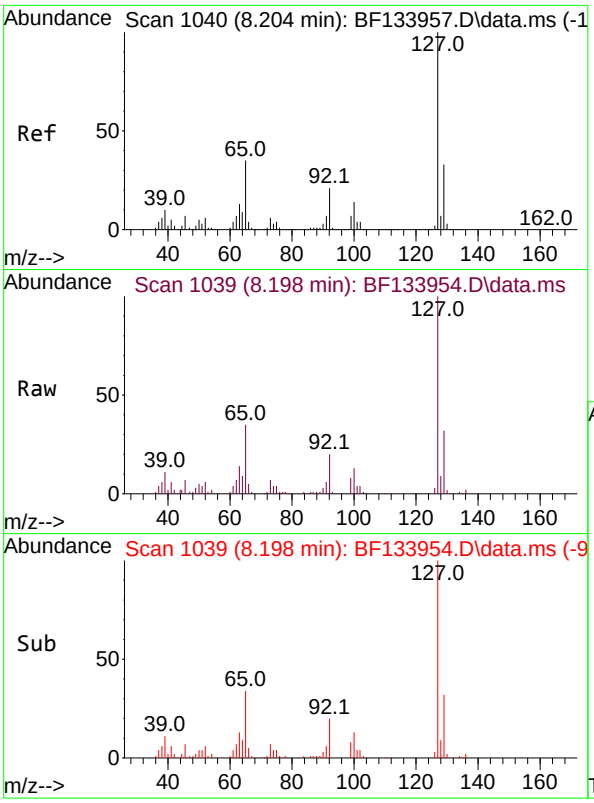


#32
Benzoic acid
Concen: 3.908 ng
RT: 7.845 min Scan# 979
Delta R.T. -0.065 min
Lab File: BF133954.D
Acq: 26 Jun 2023 15:53

Tgt Ion:122 Resp: 19052

Ion	Ratio	Lower	Upper
122	100		
105	117.1	109.7	149.7
77	100.5	76.0	116.0

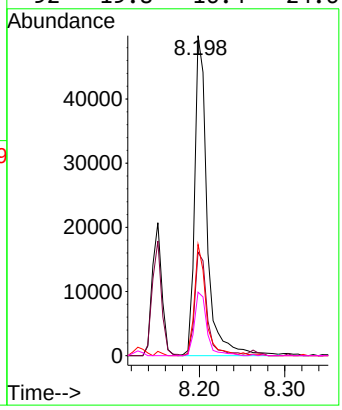




#33
4-Chloroaniline
Concen: 5.282 ng
RT: 8.198 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF133954.D
Acq: 26 Jun 2023 15:53

Tgt Ion:127 Resp: 5086

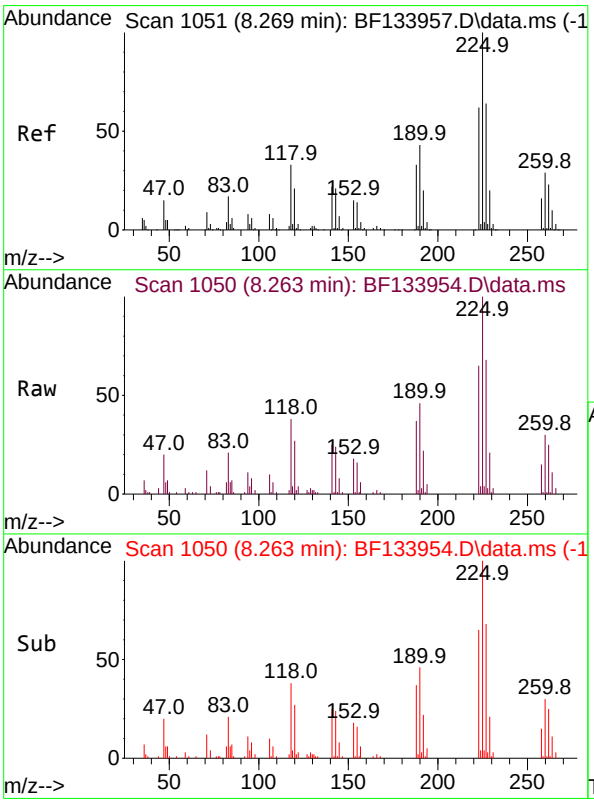
Ion	Ratio	Lower	Upper
127	100		
129	32.4	26.4	39.6
65	34.7	27.8	41.8
92	19.8	16.4	24.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

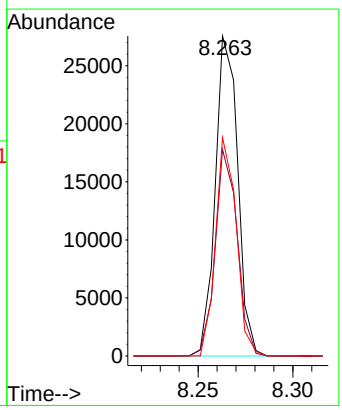
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

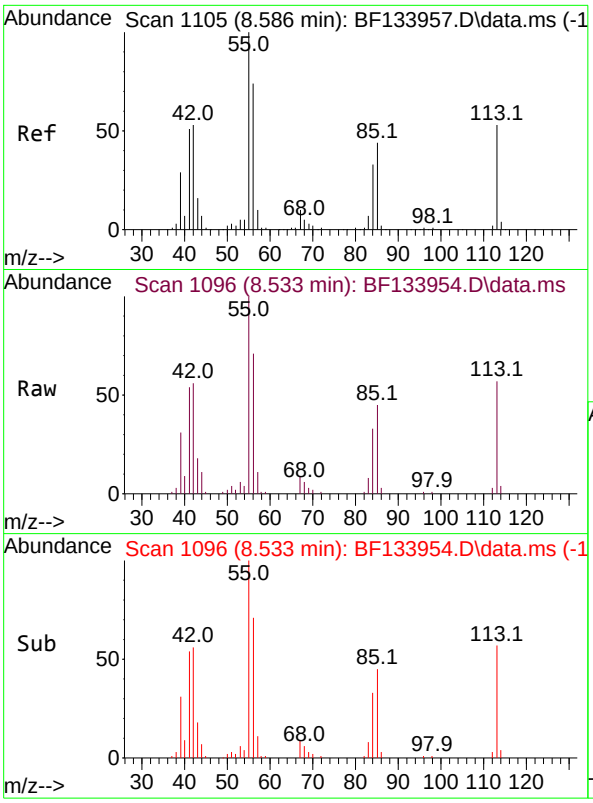


#34
Hexachlorobutadiene
Concen: 5.299 ng
RT: 8.263 min Scan# 1050
Delta R.T. -0.006 min
Lab File: BF133954.D
Acq: 26 Jun 2023 15:53

Tgt Ion:225 Resp: 22691

Ion	Ratio	Lower	Upper
225	100		
223	64.5	49.8	74.8
227	68.3	51.0	76.4

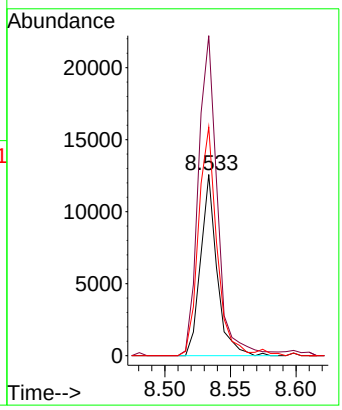




#35
Caprolactam
Concen: 5.048 ng
RT: 8.533 min Scan# 1
Delta R.T. -0.053 min
Lab File: BF133954.D
Acq: 26 Jun 2023 15:53

Tgt Ion:113 Resp: 1093

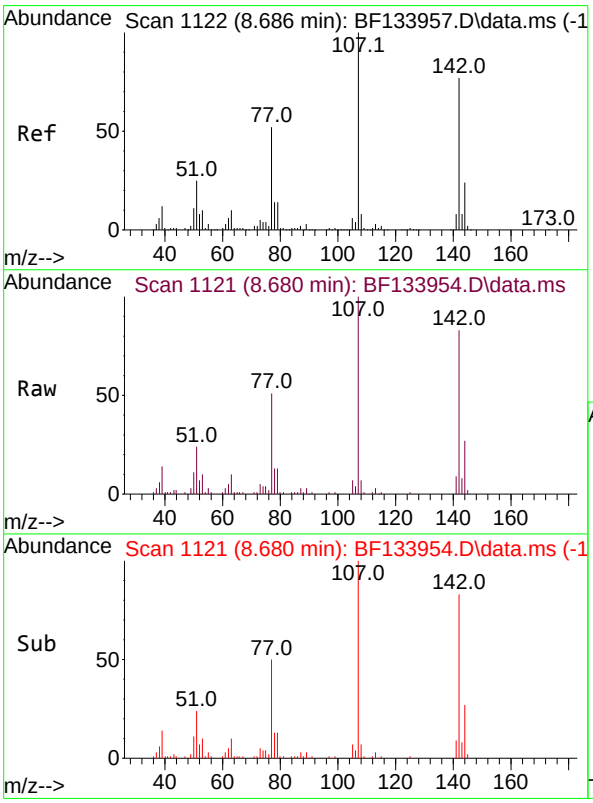
Ion	Ratio	Lower	Upper
113	100		
55	176.6	170.2	210.2
56	126.2	121.4	161.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

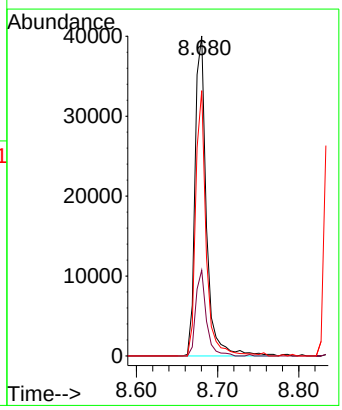
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

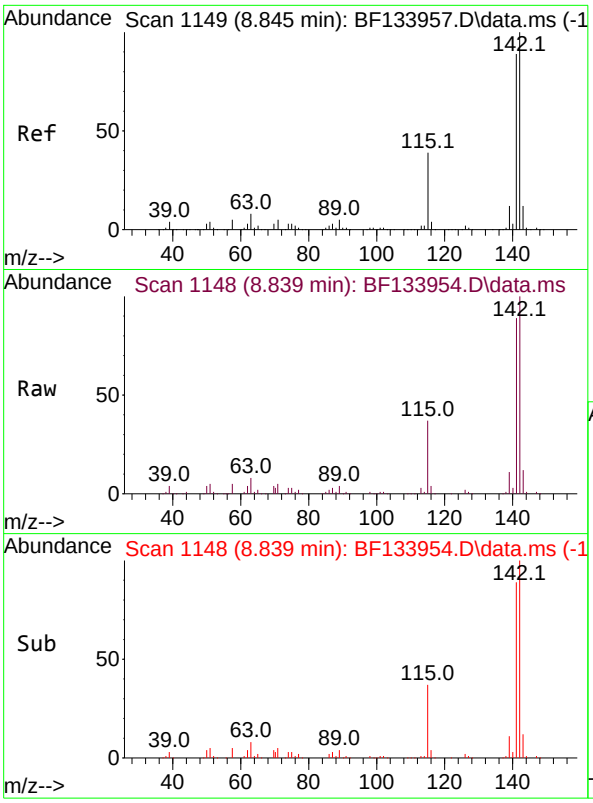


#36
4-Chloro-3-methylphenol
Concen: 5.319 ng
RT: 8.680 min Scan# 1121
Delta R.T. -0.006 min
Lab File: BF133954.D
Acq: 26 Jun 2023 15:53

Tgt Ion:107 Resp: 39309

Ion	Ratio	Lower	Upper
107	100		
144	26.8	19.6	29.4
142	82.9	61.4	92.2

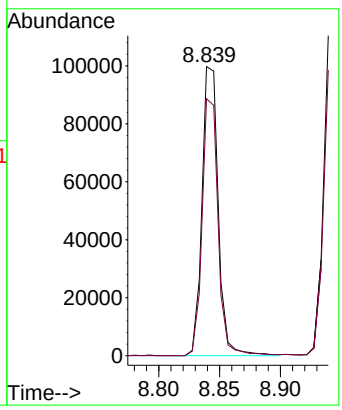




#37
2-Methylnaphthalene
Concen: 5.825 ng
RT: 8.839 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF133954.D
Acq: 26 Jun 2023 15:53

Tgt Ion:142 Resp: 9273

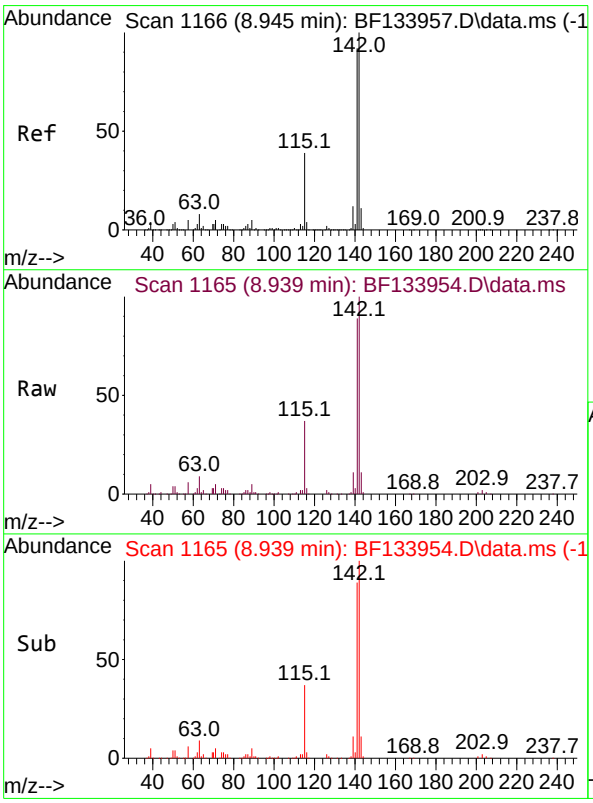
Ion	Ratio	Lower	Upper
142	100		
141	88.9	71.0	106.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

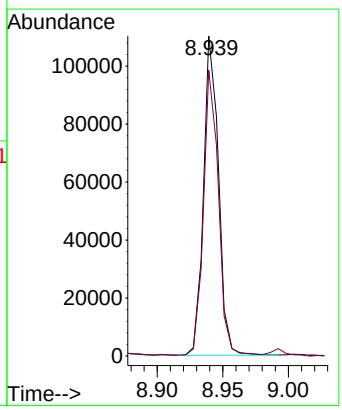
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

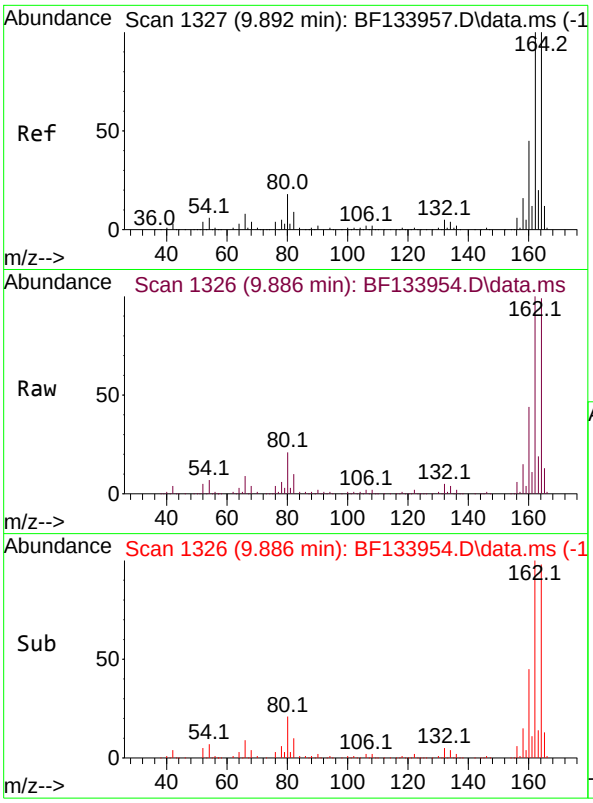


#38
1-Methylnaphthalene
Concen: 5.931 ng
RT: 8.939 min Scan# 1165
Delta R.T. -0.006 min
Lab File: BF133954.D
Acq: 26 Jun 2023 15:53

Tgt Ion:142 Resp: 87777

Ion	Ratio	Lower	Upper
142	100		
141	89.3	73.5	110.3

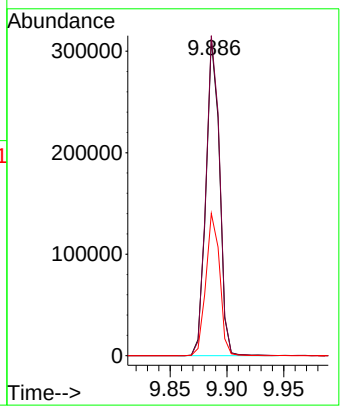




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.886 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF133954.D
Acq: 26 Jun 2023 15:53

Tgt Ion:164 Resp: 25879

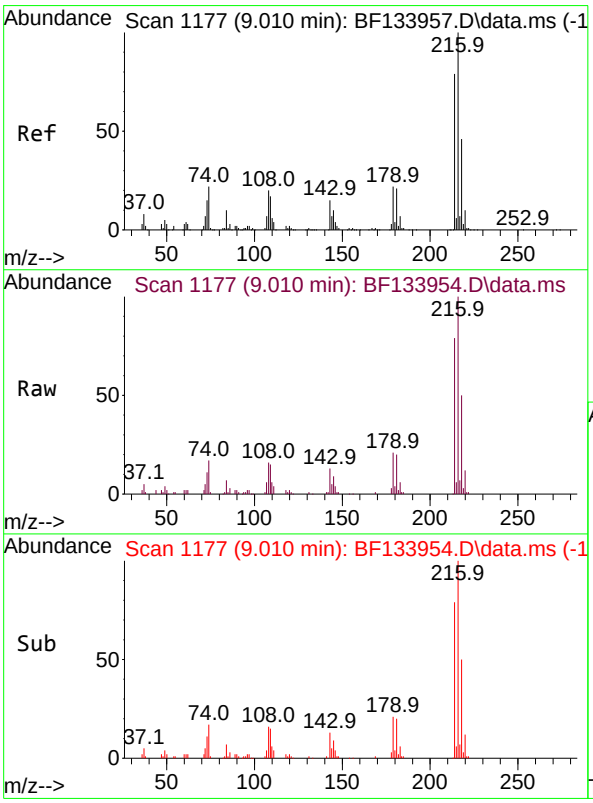
Ion	Ratio	Lower	Upper
164	100		
162	101.1	80.0	120.0
160	45.0	35.9	53.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

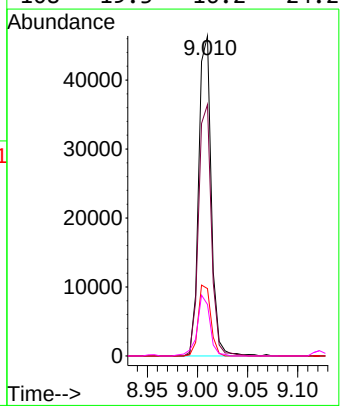
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

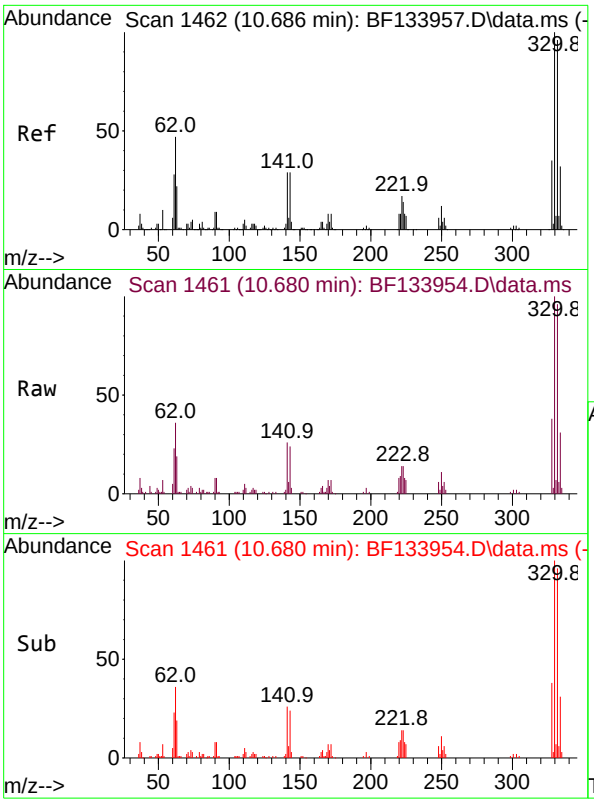


#40
1,2,4,5-Tetrachlorobenzene
Concen: 5.283 ng
RT: 9.010 min Scan# 1177
Delta R.T. 0.000 min
Lab File: BF133954.D
Acq: 26 Jun 2023 15:53

Tgt Ion:216 Resp: 40505

Ion	Ratio	Lower	Upper
216	100		
214	80.2	64.1	96.1
179	22.0	17.3	25.9
108	19.3	16.2	24.2

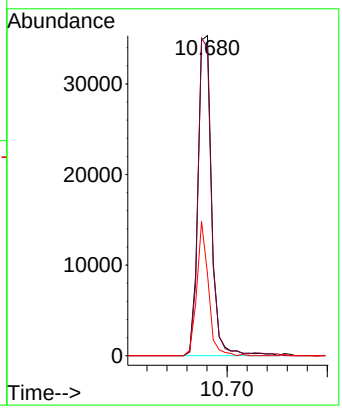




#42
2,4,6-Tribromophenol
Concen: 10.347 ng
RT: 10.680 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF133954.D
Acq: 26 Jun 2023 15:53

Tgt Ion:330 Resp: 3357

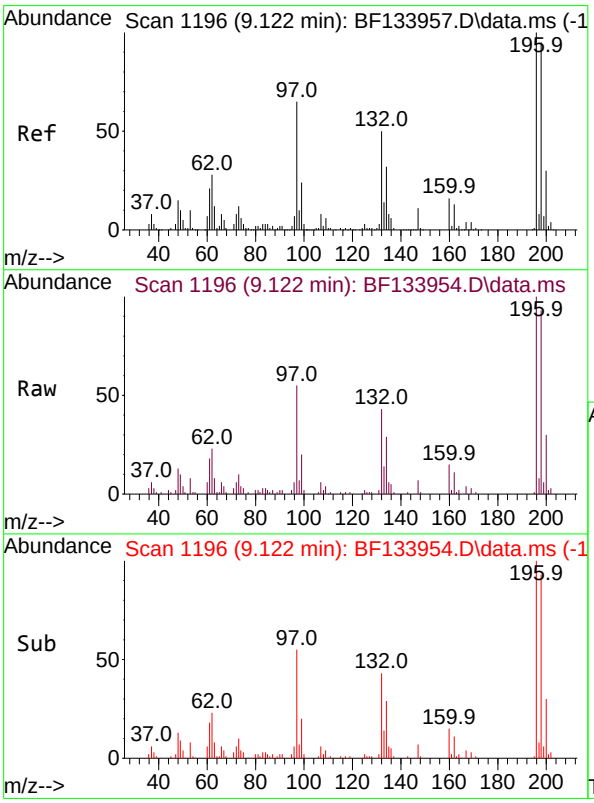
Ion	Ratio	Lower	Upper
330	100		
332	96.3	77.0	115.6
141	35.0	26.3	39.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

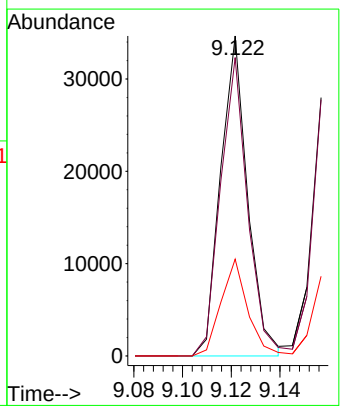
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

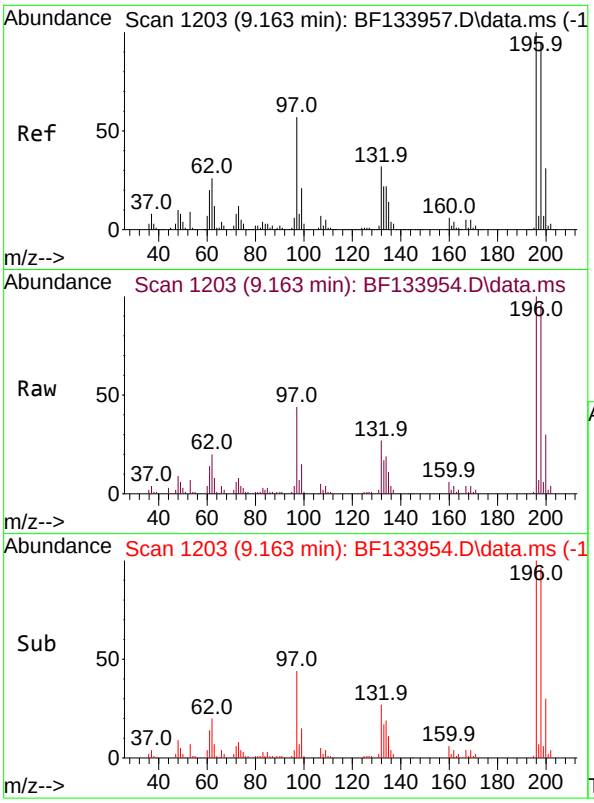


#43
2,4,6-Trichlorophenol
Concen: 5.112 ng
RT: 9.122 min Scan# 1196
Delta R.T. 0.000 min
Lab File: BF133954.D
Acq: 26 Jun 2023 15:53

Tgt Ion:196 Resp: 26682

Ion	Ratio	Lower	Upper
196	100		
198	93.3	75.6	113.4
200	30.3	24.4	36.6

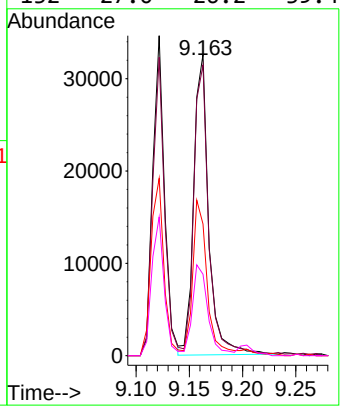




#44
2,4,5-Trichlorophenol
Concen: 5.201 ng
RT: 9.163 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF133954.D
Acq: 26 Jun 2023 15:53

Tgt Ion:196 Resp: 3193

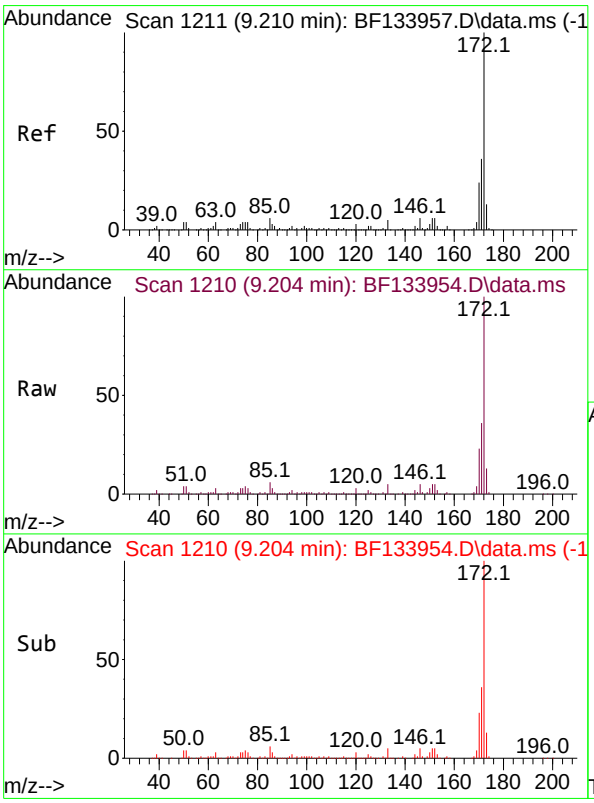
Ion	Ratio	Lower	Upper
196	100		
198	96.5	75.7	113.5
97	43.7	45.8	68.6
132	27.0	26.2	39.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

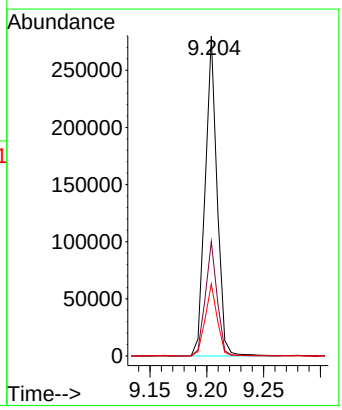
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

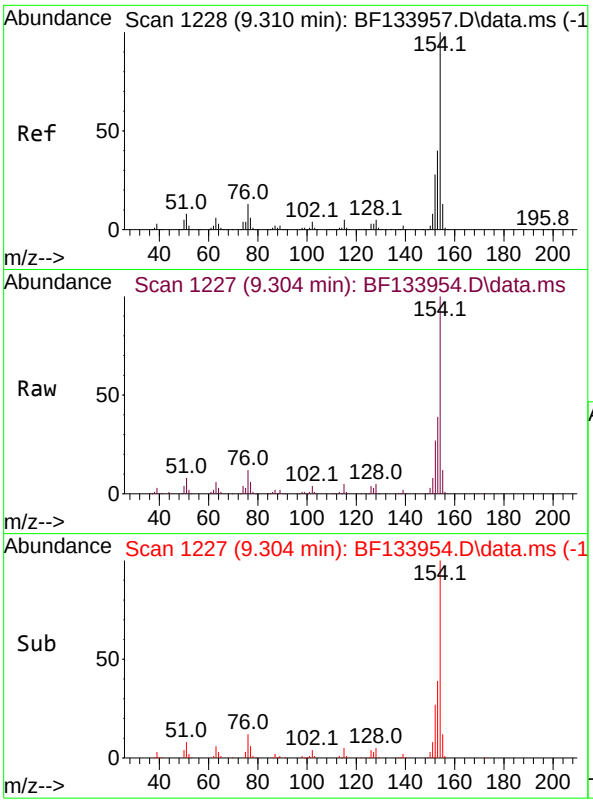


#45
2-Fluorobiphenyl
Concen: 11.444 ng
RT: 9.204 min Scan# 1210
Delta R.T. -0.006 min
Lab File: BF133954.D
Acq: 26 Jun 2023 15:53

Tgt Ion:172 Resp: 203707

Ion	Ratio	Lower	Upper
172	100		
171	35.8	28.6	43.0
170	22.5	19.4	29.0

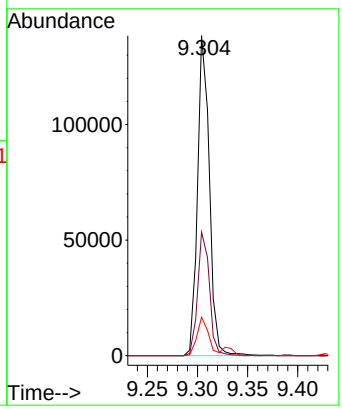




#46
1,1'-Biphenyl
Concen: 5.499 ng
RT: 9.304 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF133954.D
Acq: 26 Jun 2023 15:53

Tgt Ion:154 Resp: 11415

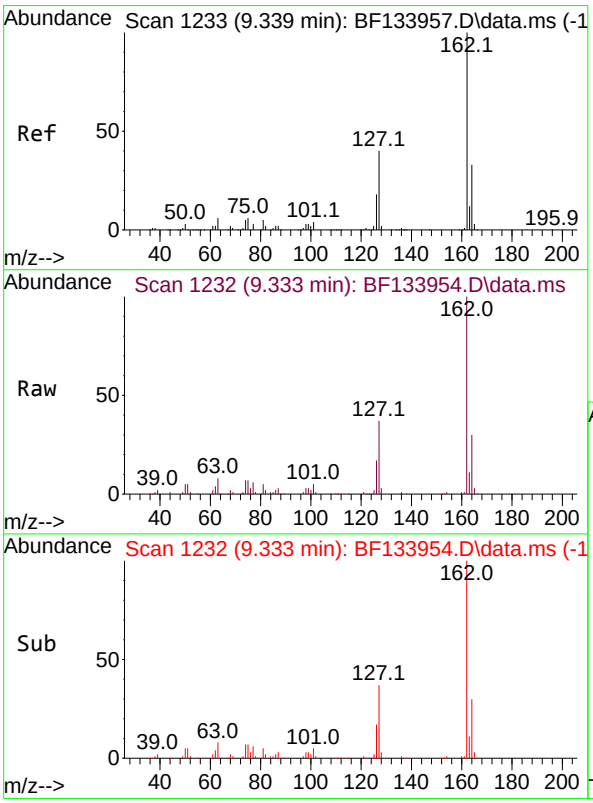
Ion	Ratio	Lower	Upper
154	100		
153	38.6	19.8	59.8
76	12.0	0.0	32.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

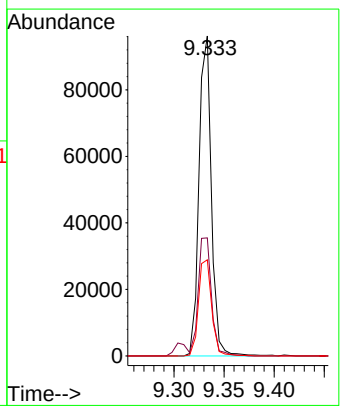
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

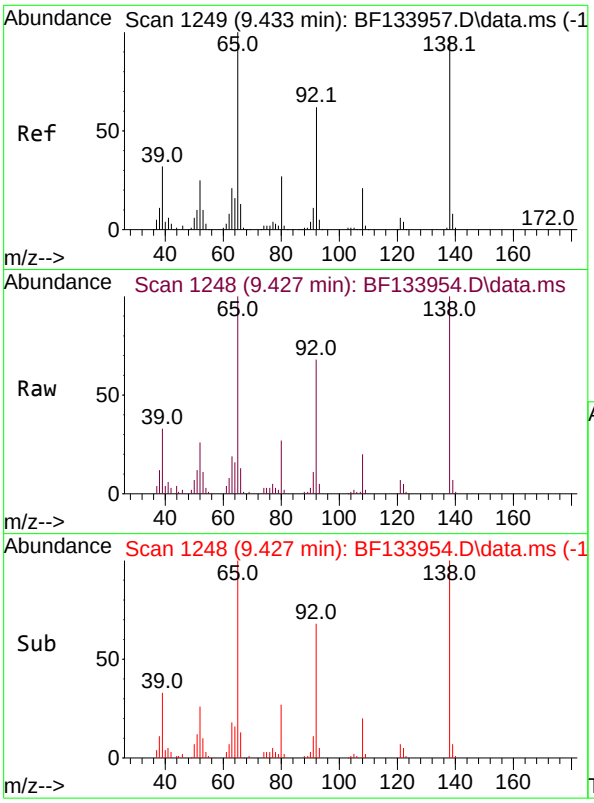


#47
2-Chloronaphthalene
Concen: 5.465 ng
RT: 9.333 min Scan# 1232
Delta R.T. -0.006 min
Lab File: BF133954.D
Acq: 26 Jun 2023 15:53

Tgt Ion:162 Resp: 83017

Ion	Ratio	Lower	Upper
162	100		
127	36.9	32.9	49.3
164	30.1	26.1	39.1





#48
2-Nitroaniline
Concen: 4.760 ng
RT: 9.427 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF133954.D
Acq: 26 Jun 2023 15:53

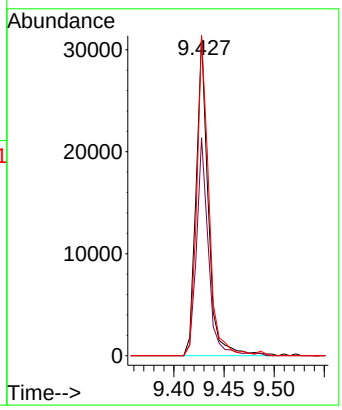
Tgt Ion: 65 Resp: 2635

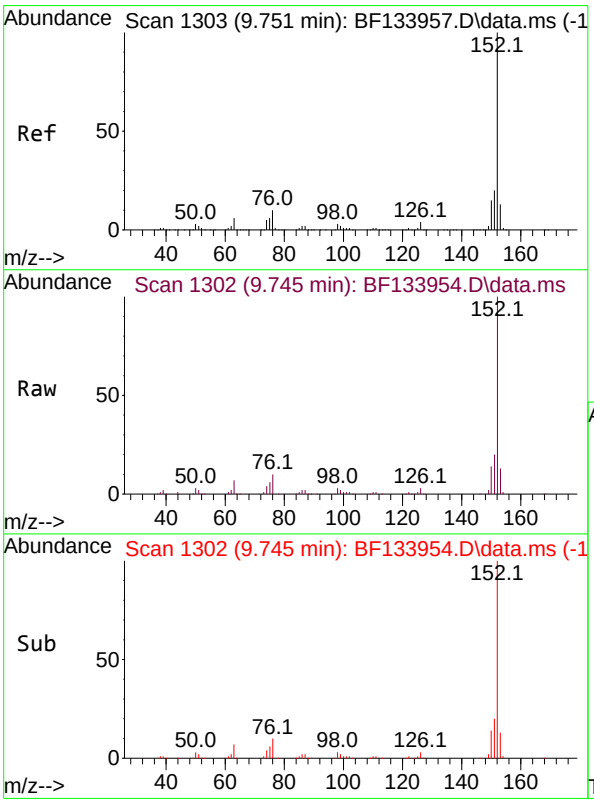
Ion	Ratio	Lower	Upper
65	100		
92	68.1	49.5	74.3
138	100.0	78.0	117.0

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

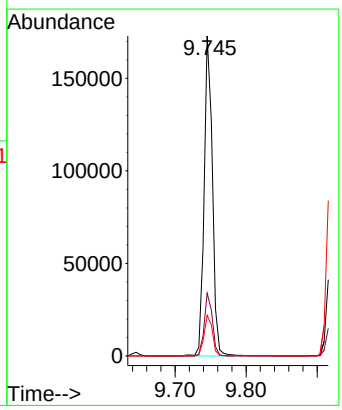


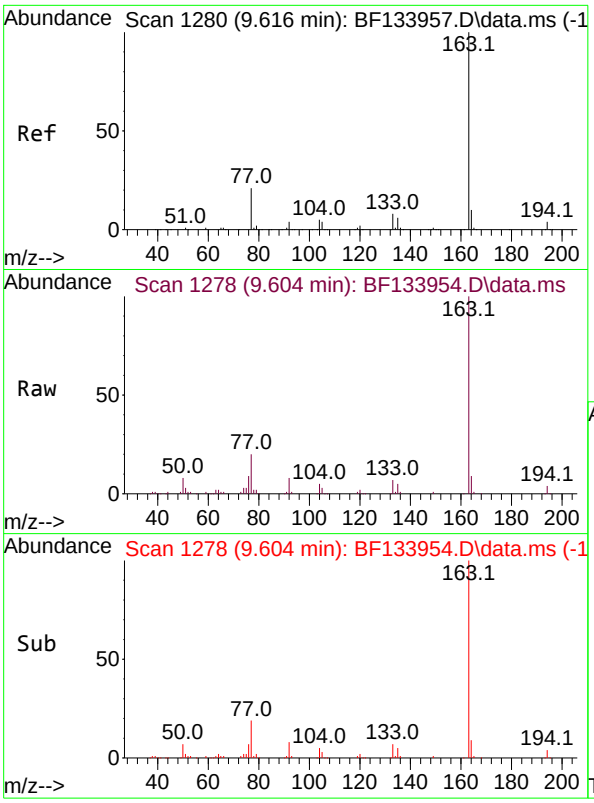


#49
Acenaphthylene
Concen: 5.409 ng
RT: 9.745 min Scan# 1302
Delta R.T. -0.006 min
Lab File: BF133954.D
Acq: 26 Jun 2023 15:53

Tgt Ion:152 Resp: 140342

Ion	Ratio	Lower	Upper
152	100		
151	19.7	16.2	24.2
153	12.7	10.8	16.2

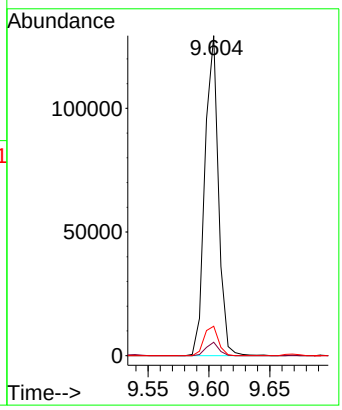




#50
Dimethylphthalate
Concen: 5.316 ng
RT: 9.604 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF133954.D
Acq: 26 Jun 2023 15:53

Tgt Ion:163 Resp: 9987

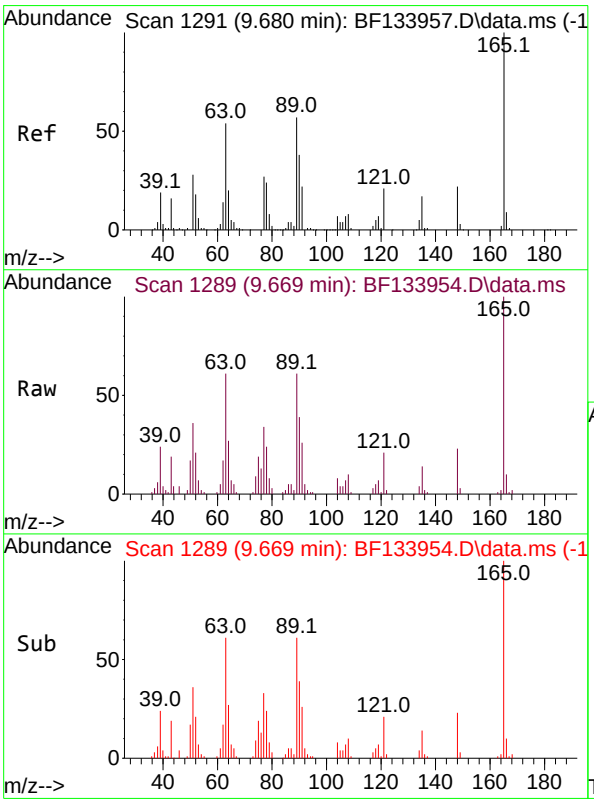
Ion	Ratio	Lower	Upper
163	100		
194	4.2	3.0	4.6
164	9.2	8.2	12.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

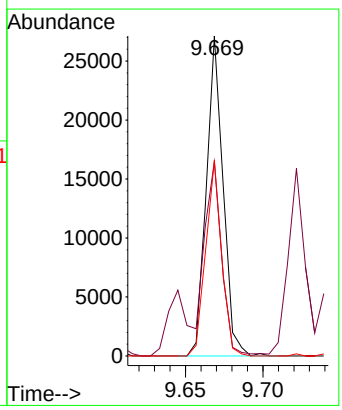
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

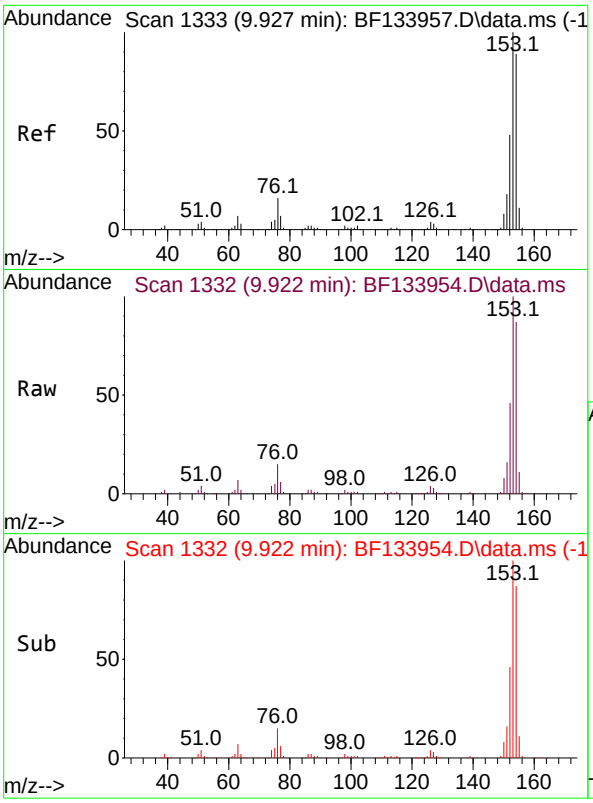


#51
2,6-Dinitrotoluene
Concen: 5.047 ng
RT: 9.669 min Scan# 1289
Delta R.T. -0.012 min
Lab File: BF133954.D
Acq: 26 Jun 2023 15:53

Tgt Ion:165 Resp: 20422

Ion	Ratio	Lower	Upper
165	100		
63	60.7	48.5	72.7
89	61.1	45.5	68.3

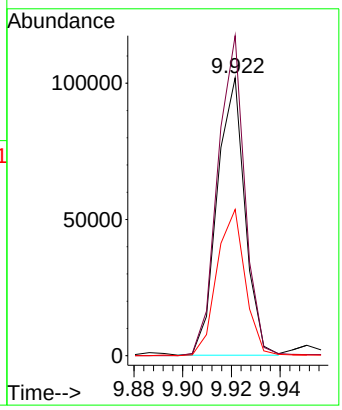




#52
Acenaphthene
Concen: 5.336 ng
RT: 9.922 min Scan# 1
Delta R.T. -0.005 min
Lab File: BF133954.D
Acq: 26 Jun 2023 15:53

Tgt Ion:154 Resp: 8033

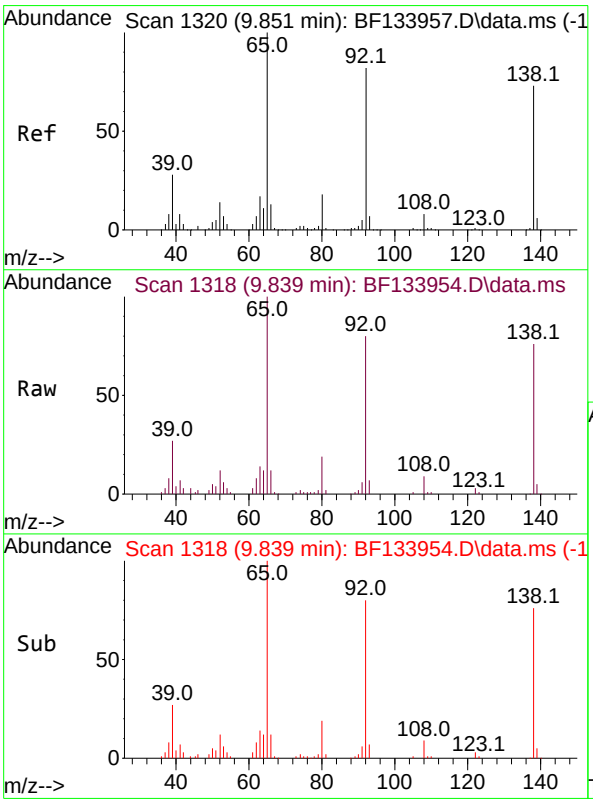
Ion	Ratio	Lower	Upper
154	100		
153	115.1	89.4	134.2
152	52.6	42.8	64.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

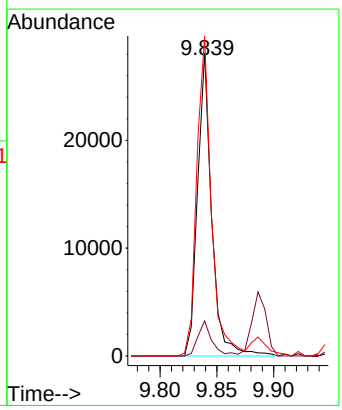
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

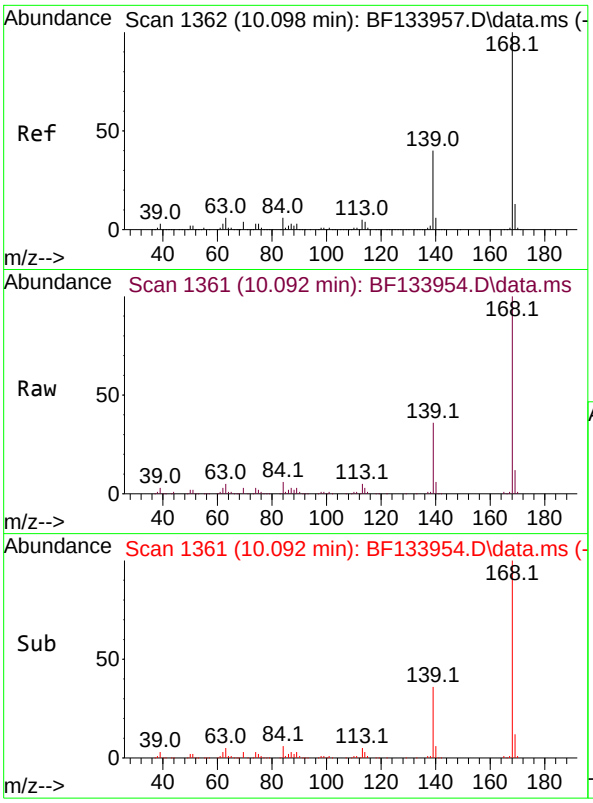


#53
3-Nitroaniline
Concen: 5.025 ng
RT: 9.839 min Scan# 1318
Delta R.T. -0.012 min
Lab File: BF133954.D
Acq: 26 Jun 2023 15:53

Tgt Ion:138 Resp: 24390

Ion	Ratio	Lower	Upper
138	100		
108	11.6	8.4	12.6
92	105.6	90.1	135.1

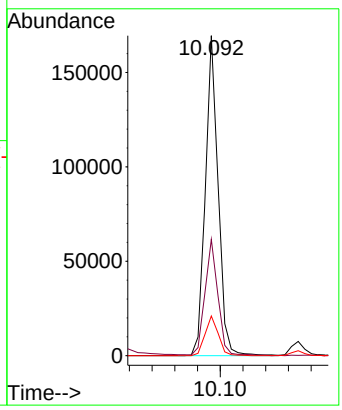




#55
Dibenzofuran
Concen: 5.619 ng
RT: 10.092 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF133954.D
Acq: 26 Jun 2023 15:53

Tgt Ion:168 Resp: 13221

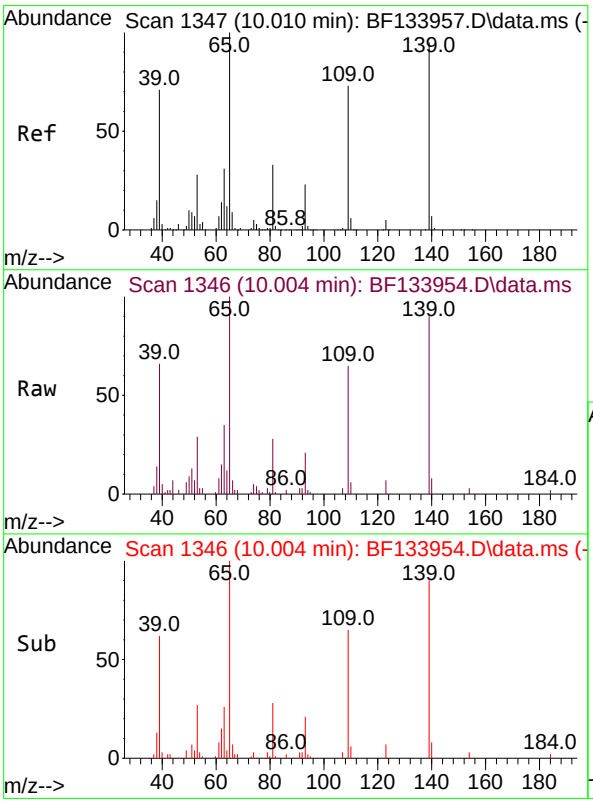
Ion	Ratio	Lower	Upper
168	100		
139	36.4	32.0	48.0
169	12.4	10.6	16.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

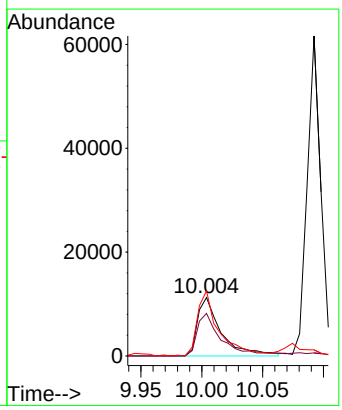
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

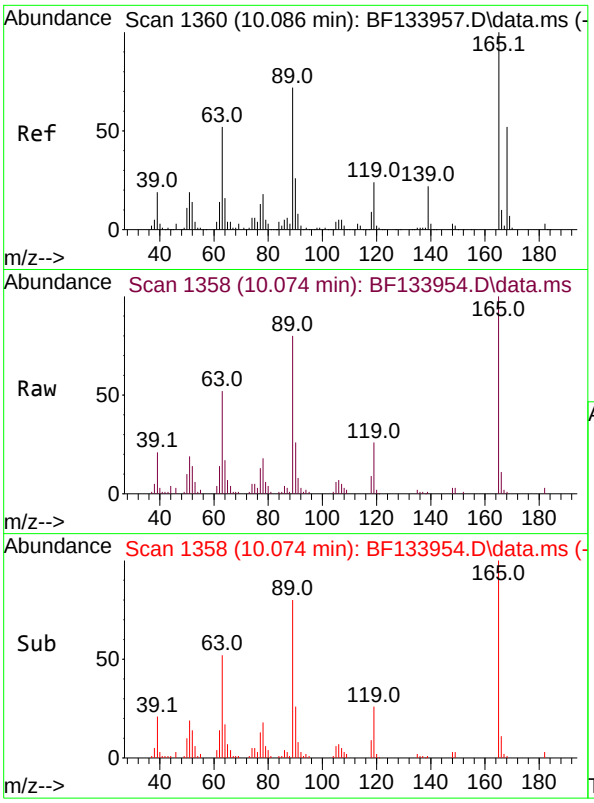


#56
4-Nitrophenol
Concen: 4.500 ng
RT: 10.004 min Scan# 1346
Delta R.T. -0.006 min
Lab File: BF133954.D
Acq: 26 Jun 2023 15:53

Tgt Ion:139 Resp: 15280

Ion	Ratio	Lower	Upper
139	100		
109	72.8	56.8	96.8
65	111.6	86.1	126.1

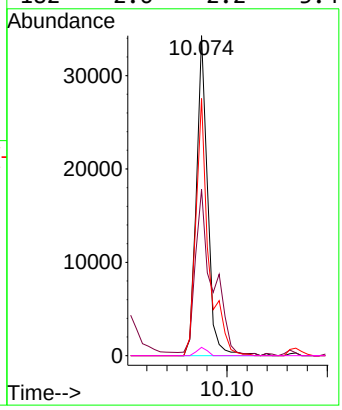




#57
2,4-Dinitrotoluene
Concen: 5.050 ng
RT: 10.074 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF133954.D
Acq: 26 Jun 2023 15:53

Tgt Ion:165 Resp: 2698

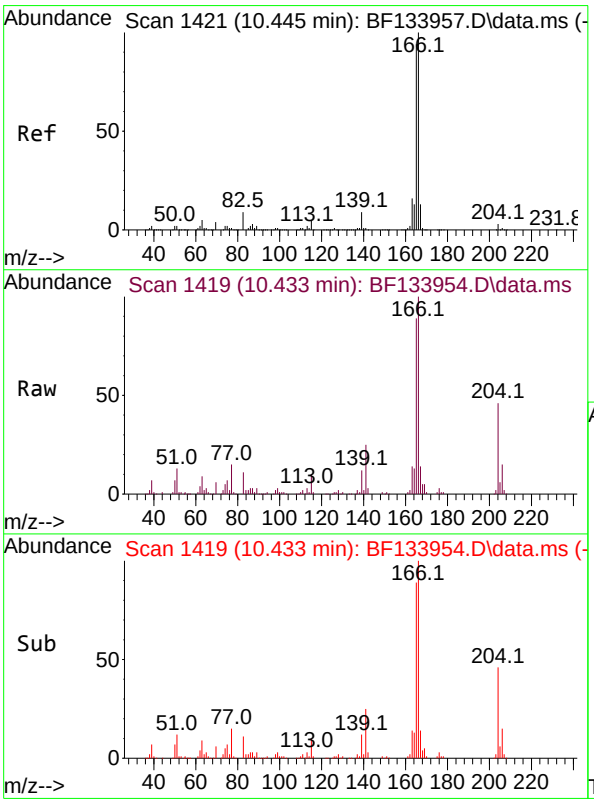
Ion	Ratio	Lower	Upper
165	100		
63	51.9	42.2	63.2
89	80.4	57.4	86.2
182	2.6	2.2	3.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

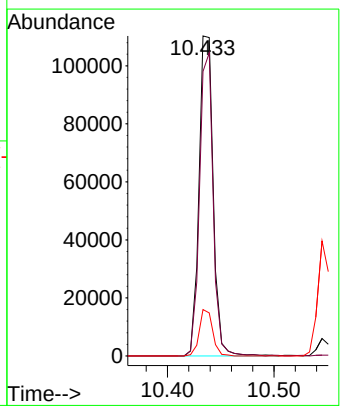
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

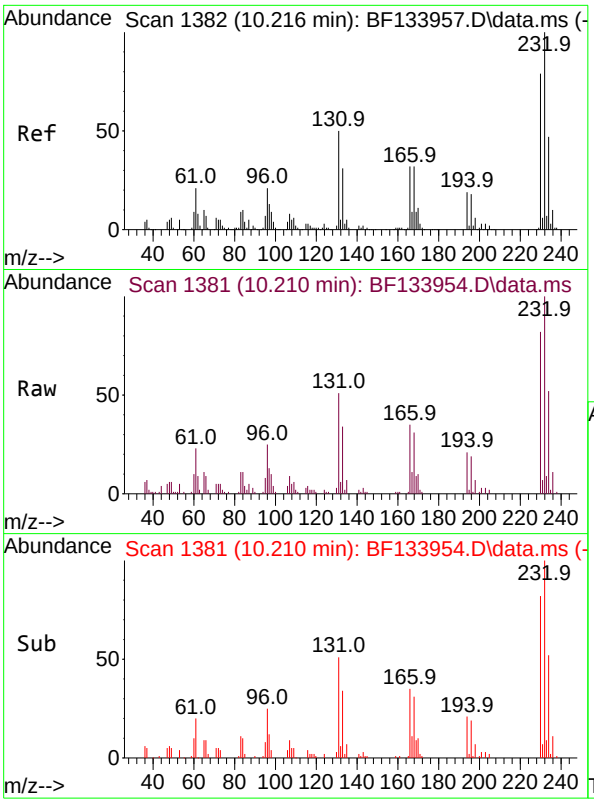


#58
Fluorene
Concen: 5.602 ng
RT: 10.433 min Scan# 1419
Delta R.T. -0.012 min
Lab File: BF133954.D
Acq: 26 Jun 2023 15:53

Tgt Ion:166 Resp: 102553

Ion	Ratio	Lower	Upper
166	100		
165	88.9	75.0	112.4
167	14.5	10.6	15.8

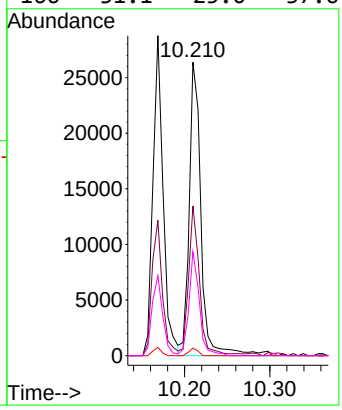




#59
2,3,4,6-Tetrachlorophenol
Concen: 5.237 ng
RT: 10.210 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF133954.D
Acq: 26 Jun 2023 15:53

Tgt Ion:232 Resp: 2536

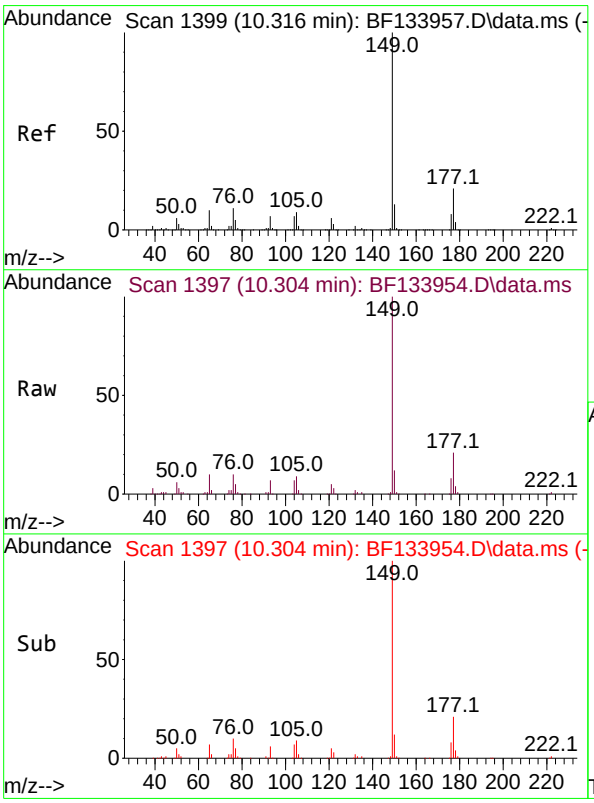
Ion	Ratio	Lower	Upper
232	100		
131	45.1	39.3	58.9
130	1.9	1.8	2.6
166	31.1	25.0	37.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

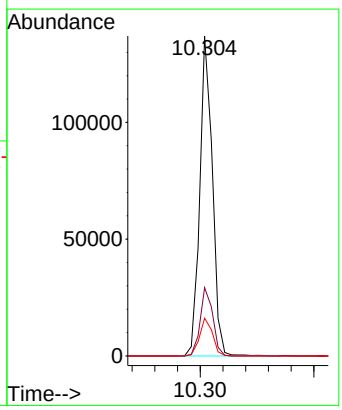
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

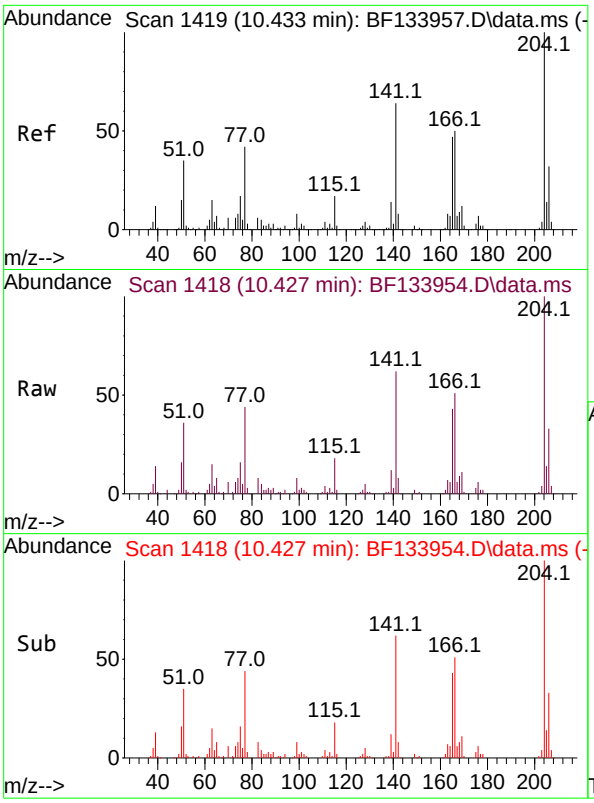


#60
Diethylphthalate
Concen: 5.390 ng
RT: 10.304 min Scan# 1397
Delta R.T. -0.012 min
Lab File: BF133954.D
Acq: 26 Jun 2023 15:53

Tgt Ion:149 Resp: 105495

Ion	Ratio	Lower	Upper
149	100		
177	21.4	17.0	25.6
150	11.8	10.2	15.2

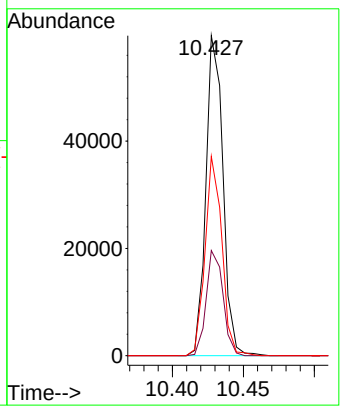




#61
4-Chlorophenyl-phenylether
Concen: 5.669 ng
RT: 10.427 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF133954.D
Acq: 26 Jun 2023 15:53

Tgt Ion:204 Resp: 5000

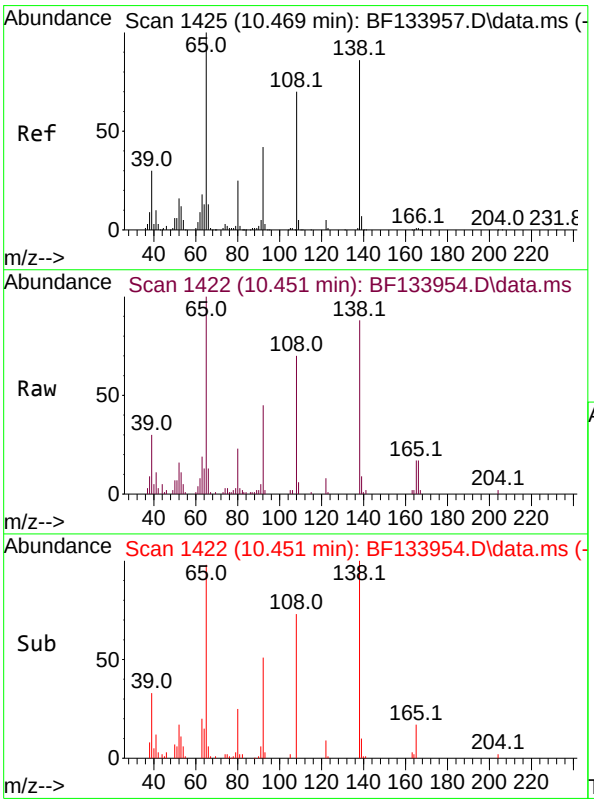
Ion	Ratio	Lower	Upper
204	100		
206	32.9	25.8	38.6
141	62.3	51.5	77.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

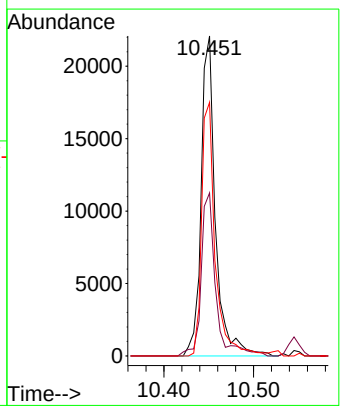
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

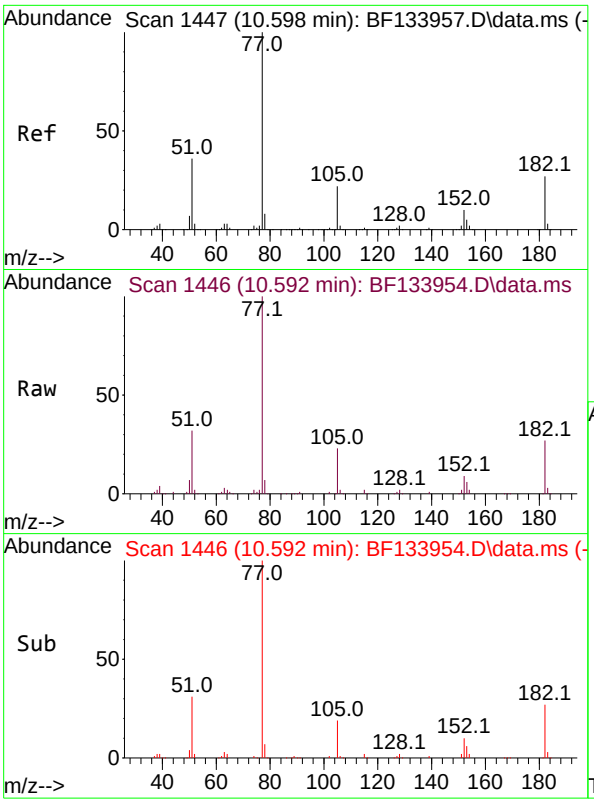


#62
4-Nitroaniline
Concen: 5.021 ng
RT: 10.451 min Scan# 1422
Delta R.T. -0.018 min
Lab File: BF133954.D
Acq: 26 Jun 2023 15:53

Tgt Ion:138 Resp: 24563

Ion	Ratio	Lower	Upper
138	100		
92	51.0	29.7	69.7
108	79.2	62.1	102.1

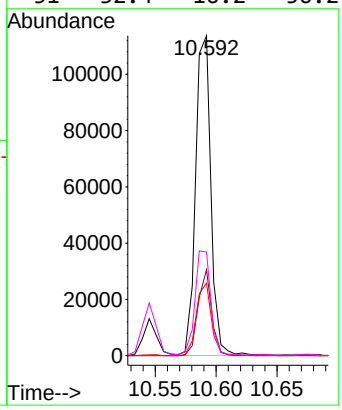




#63
Azobenzene
Concen: 5.350 ng
RT: 10.592 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF133954.D
Acq: 26 Jun 2023 15:53

Tgt Ion: 77 Resp: 9904

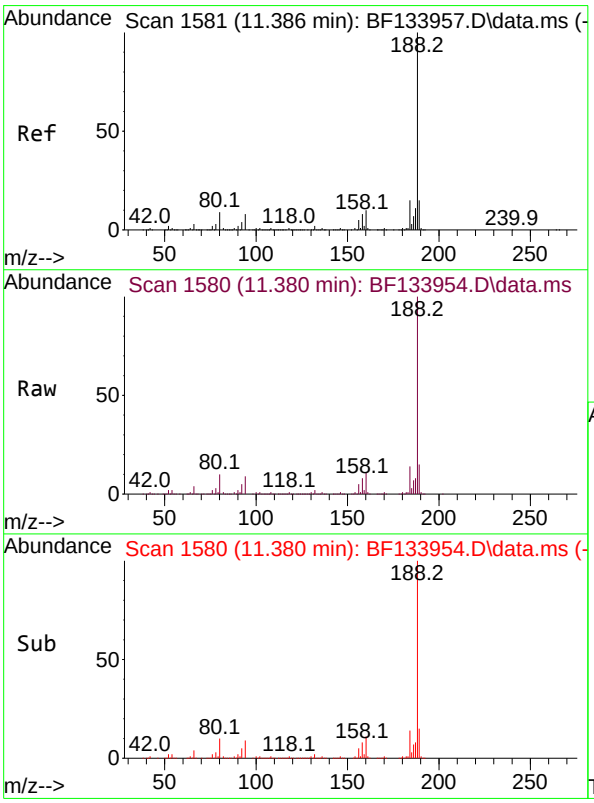
Ion	Ratio	Lower	Upper
77	100		
182	26.8	6.8	46.8
105	22.7	2.3	42.3
51	32.4	16.2	56.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

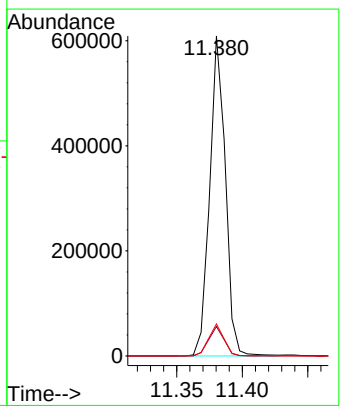
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

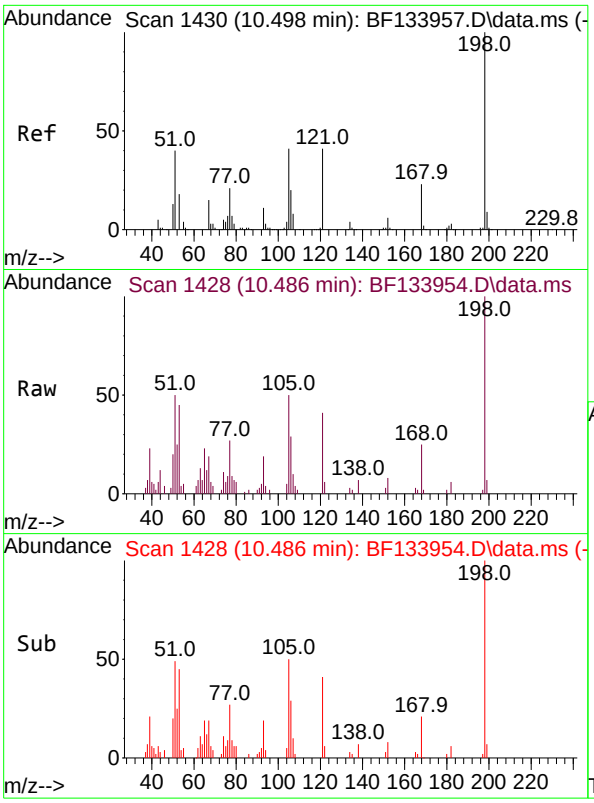


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.380 min Scan# 1580
Delta R.T. -0.006 min
Lab File: BF133954.D
Acq: 26 Jun 2023 15:53

Tgt Ion:188 Resp: 507593

Ion	Ratio	Lower	Upper
188	100		
94	9.2	6.4	9.6
80	10.0	7.3	10.9

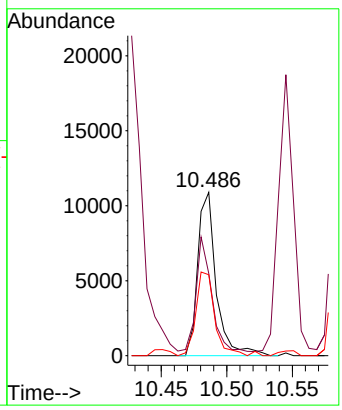




#65
4,6-Dinitro-2-methylphenol
Concen: 3.858 ng
RT: 10.486 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF133954.D
Acq: 26 Jun 2023 15:53

Tgt Ion:198 Resp: 1067

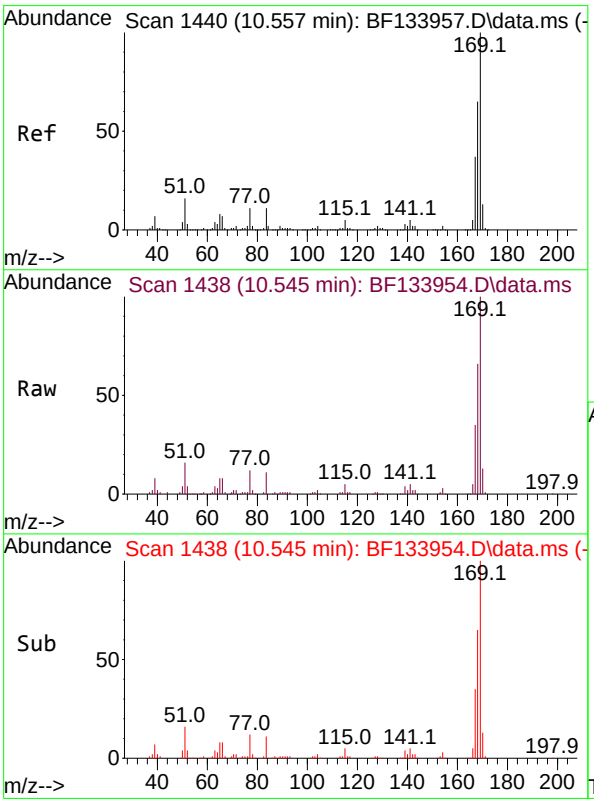
Ion	Ratio	Lower	Upper
198	100		
51	50.3	29.3	69.3
105	49.5	22.4	62.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

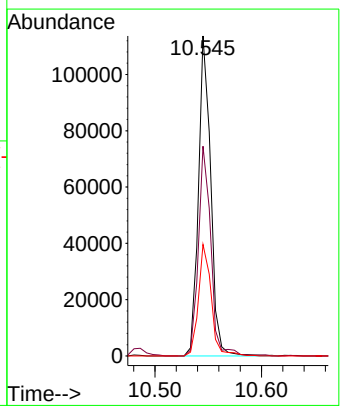
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

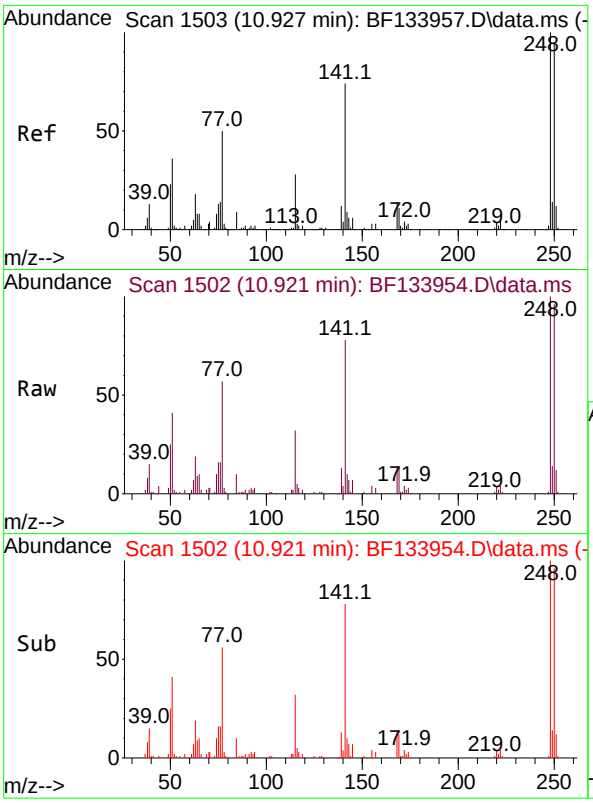


#66
n-Nitrosodiphenylamine
Concen: 5.621 ng
RT: 10.545 min Scan# 1438
Delta R.T. -0.012 min
Lab File: BF133954.D
Acq: 26 Jun 2023 15:53

Tgt Ion:169 Resp: 91156

Ion	Ratio	Lower	Upper
169	100		
168	65.6	52.3	78.5
167	34.9	29.4	44.0

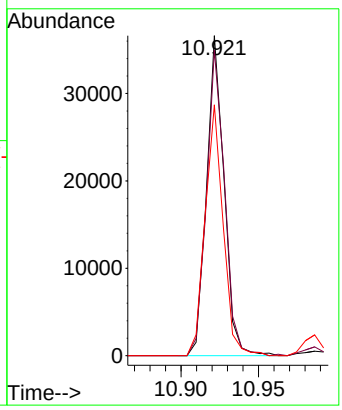




#67
4-Bromophenyl-phenylether
Concen: 5.331 ng
RT: 10.921 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF133954.D
Acq: 26 Jun 2023 15:53

Tgt Ion:248 Resp: 2876

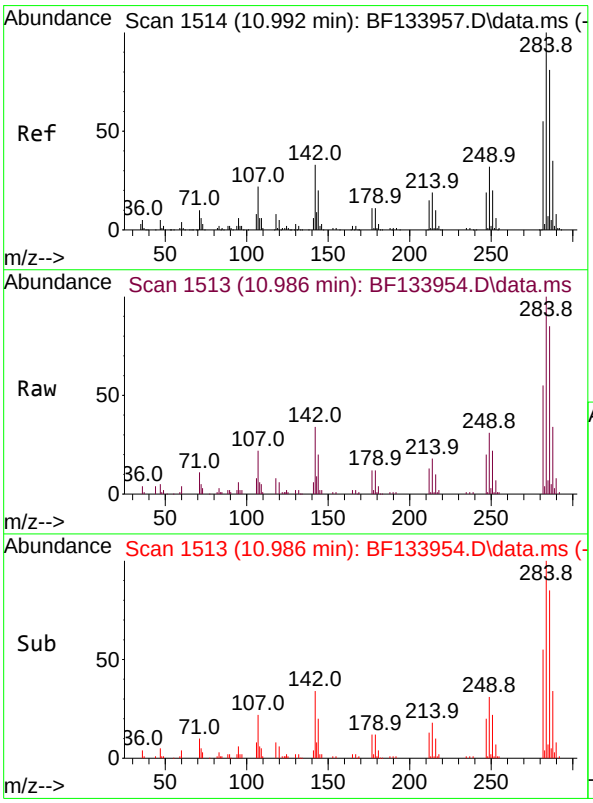
Ion	Ratio	Lower	Upper
248	100		
250	95.5	76.2	114.4
141	78.4	59.0	88.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

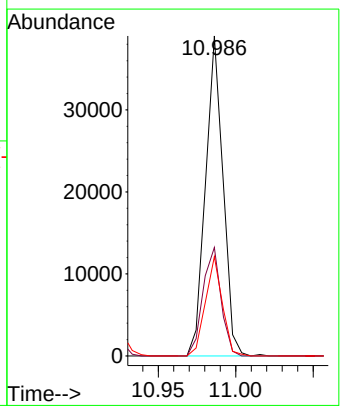
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

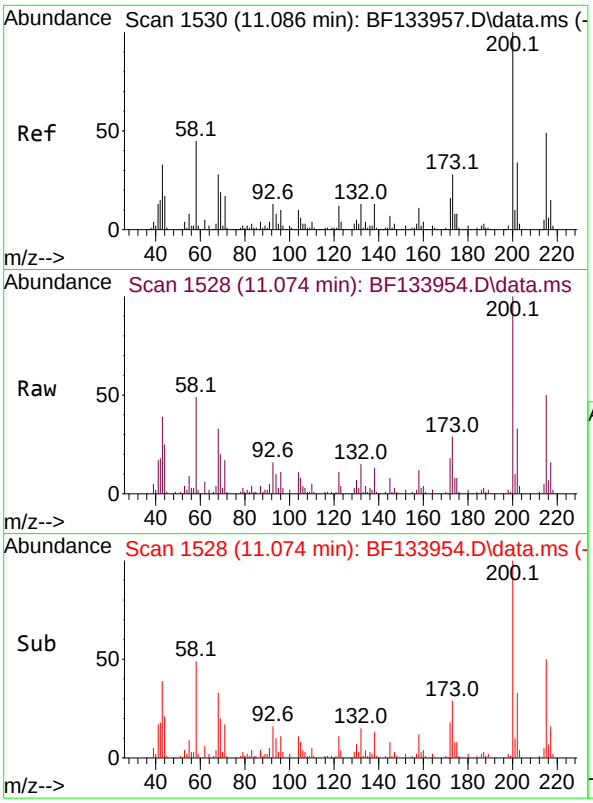


#68
Hexachlorobenzene
Concen: 5.348 ng
RT: 10.986 min Scan# 1513
Delta R.T. -0.006 min
Lab File: BF133954.D
Acq: 26 Jun 2023 15:53

Tgt Ion:284 Resp: 30637

Ion	Ratio	Lower	Upper
284	100		
142	33.9	26.6	40.0
249	31.1	25.5	38.3

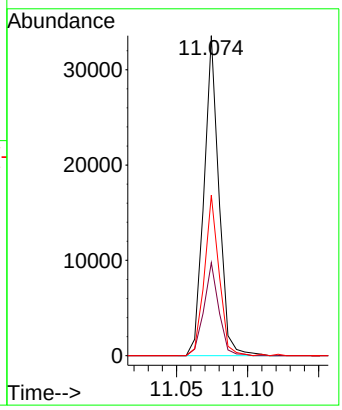




#69
Atrazine
Concen: 5.490 ng
RT: 11.074 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF133954.D
Acq: 26 Jun 2023 15:53

Tgt Ion:200 Resp: 2462

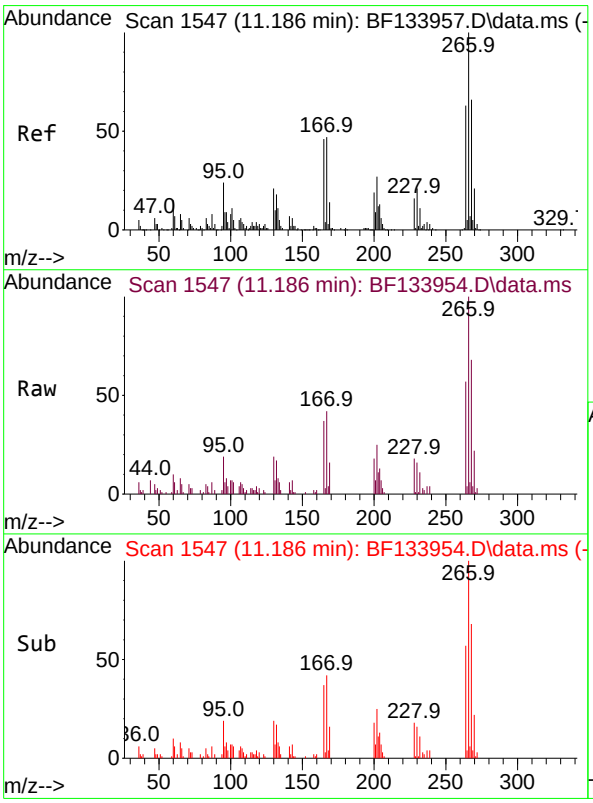
Ion	Ratio	Lower	Upper
200	100		
173	29.1	8.0	48.0
215	50.2	29.3	69.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

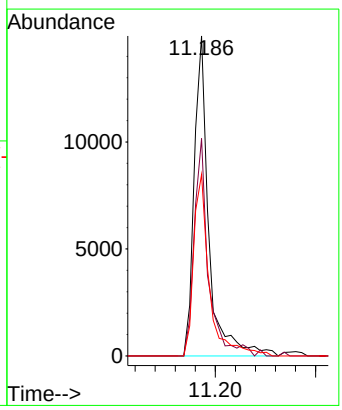
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

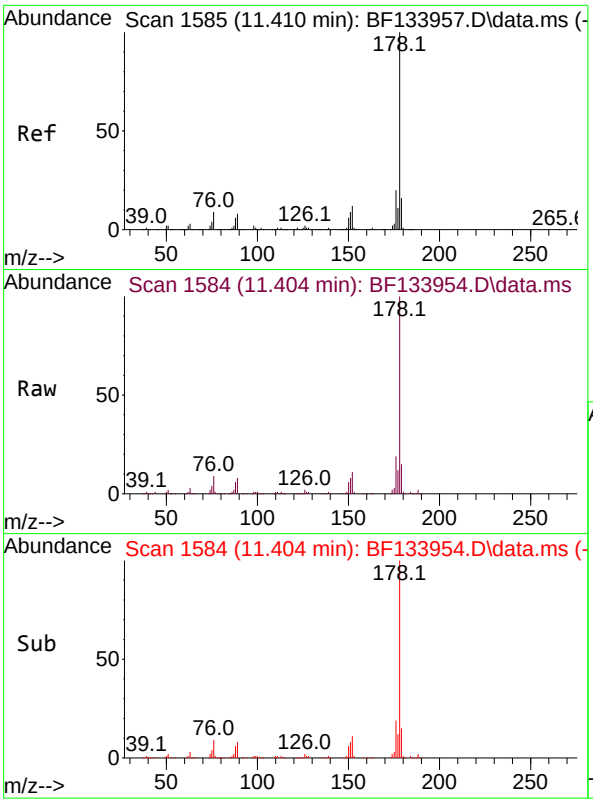


#70
Pentachlorophenol
Concen: 4.410 ng
RT: 11.186 min Scan# 1547
Delta R.T. 0.000 min
Lab File: BF133954.D
Acq: 26 Jun 2023 15:53

Tgt Ion:266 Resp: 15106

Ion	Ratio	Lower	Upper
266	100		
268	68.0	52.6	79.0
264	56.7	50.6	76.0

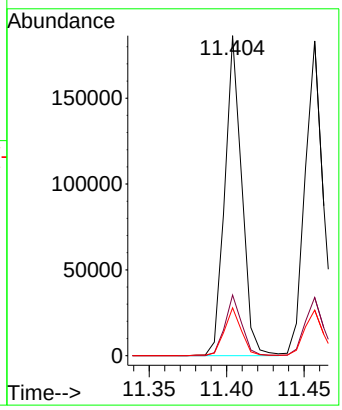




#71
Phenanthrene
Concen: 5.555 ng
RT: 11.404 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF133954.D
Acq: 26 Jun 2023 15:53

Tgt Ion:178 Resp: 14195

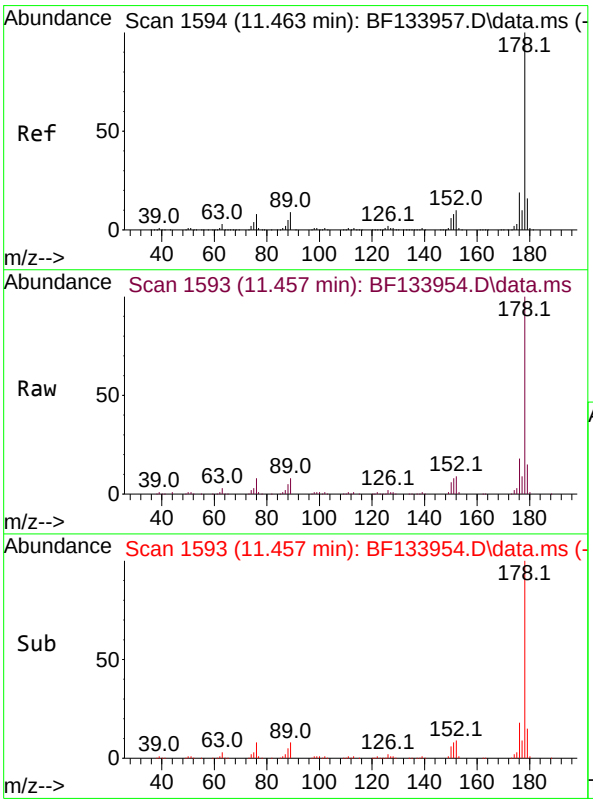
Ion	Ratio	Lower	Upper
178	100		
176	19.0	16.0	24.0
179	15.0	12.4	18.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

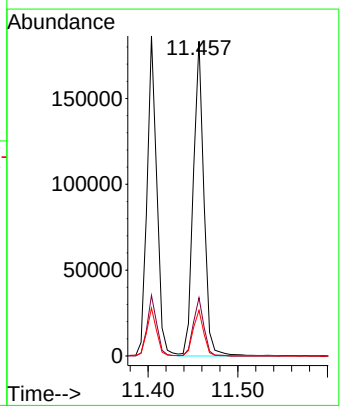
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

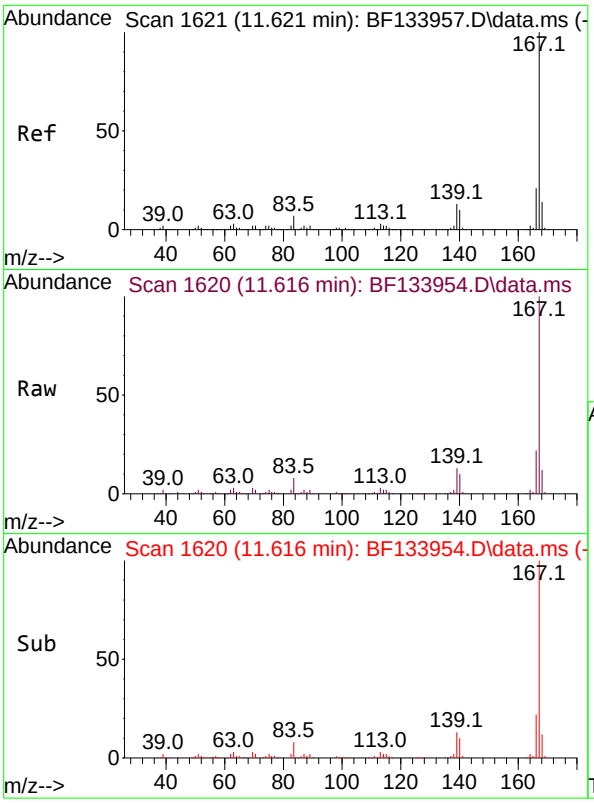


#72
Anthracene
Concen: 5.653 ng
RT: 11.457 min Scan# 1593
Delta R.T. -0.006 min
Lab File: BF133954.D
Acq: 26 Jun 2023 15:53

Tgt Ion:178 Resp: 150236

Ion	Ratio	Lower	Upper
178	100		
176	18.5	15.3	22.9
179	14.5	12.4	18.6

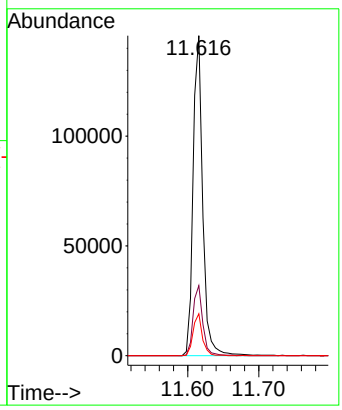




#73
Carbazole
Concen: 5.670 ng
RT: 11.616 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF133954.D
Acq: 26 Jun 2023 15:53

Tgt Ion:167 Resp: 13793

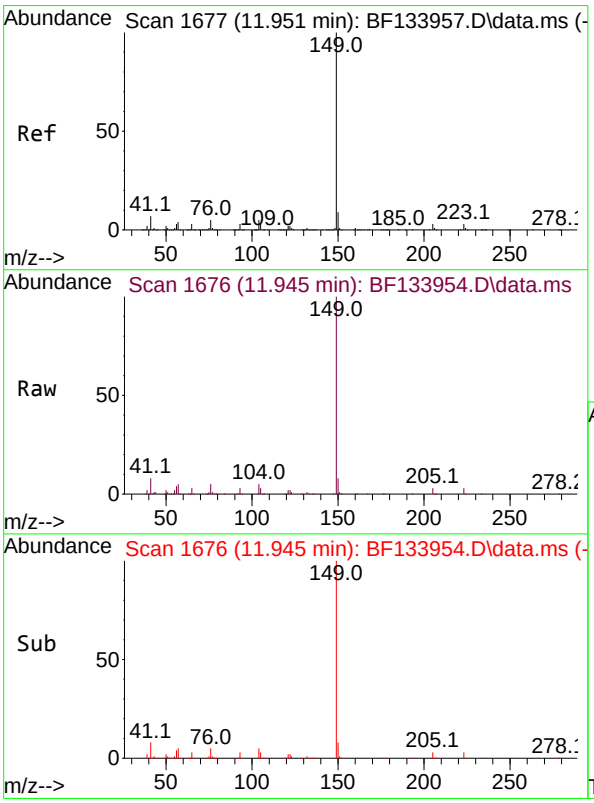
Ion	Ratio	Lower	Upper
167	100		
166	21.9	17.0	25.6
139	13.1	10.4	15.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

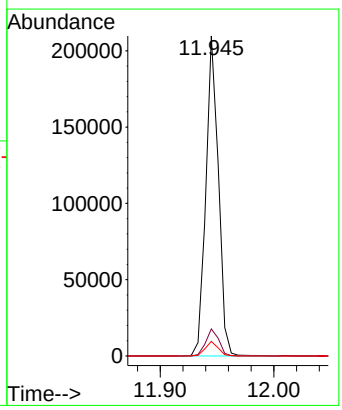
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

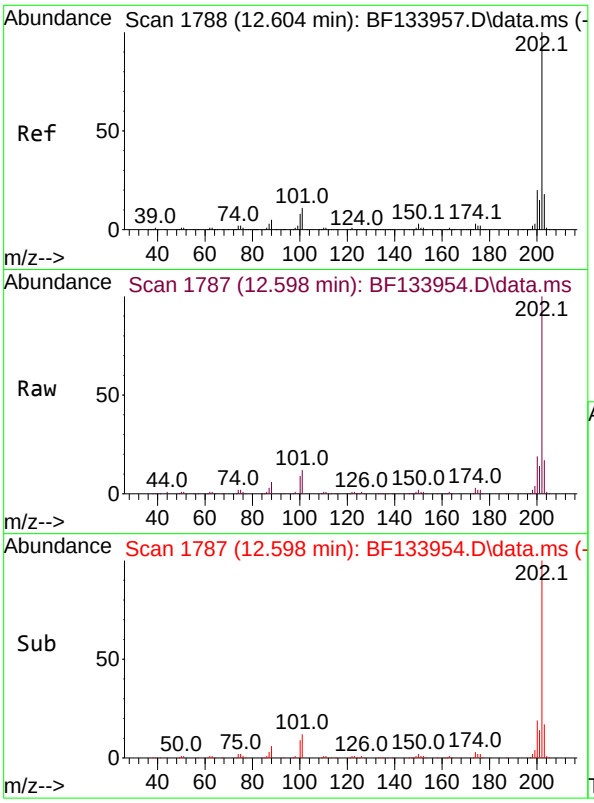


#74
Di-n-butylphthalate
Concen: 5.549 ng
RT: 11.945 min Scan# 1676
Delta R.T. -0.006 min
Lab File: BF133954.D
Acq: 26 Jun 2023 15:53

Tgt Ion:149 Resp: 160544

Ion	Ratio	Lower	Upper
149	100		
150	8.4	7.1	10.7
104	4.6	4.0	6.0

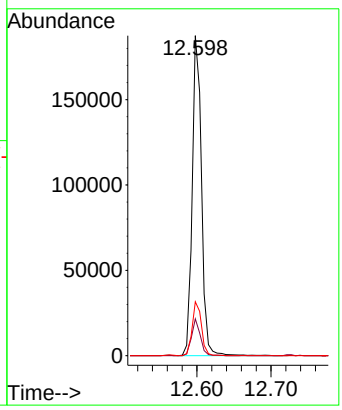




#75
Fluoranthene
Concen: 5.900 ng
RT: 12.598 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF133954.D
Acq: 26 Jun 2023 15:53

Tgt Ion:202 Resp: 16297

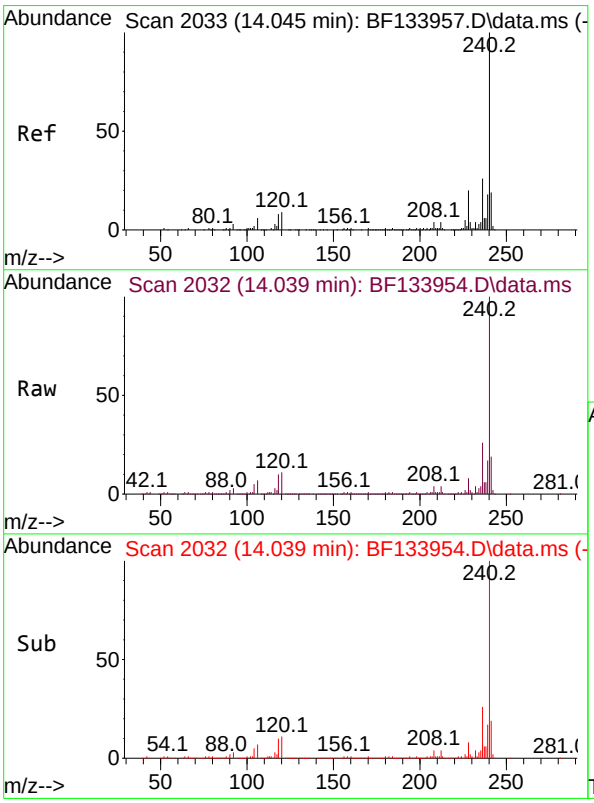
Ion	Ratio	Lower	Upper
202	100		
101	11.5	0.0	31.0
203	16.8	0.0	37.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

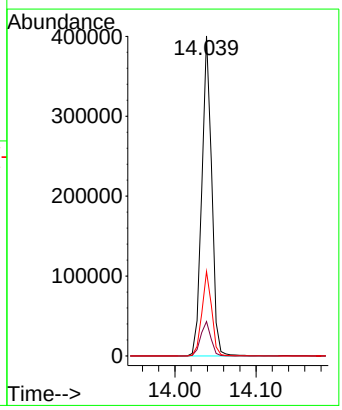
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

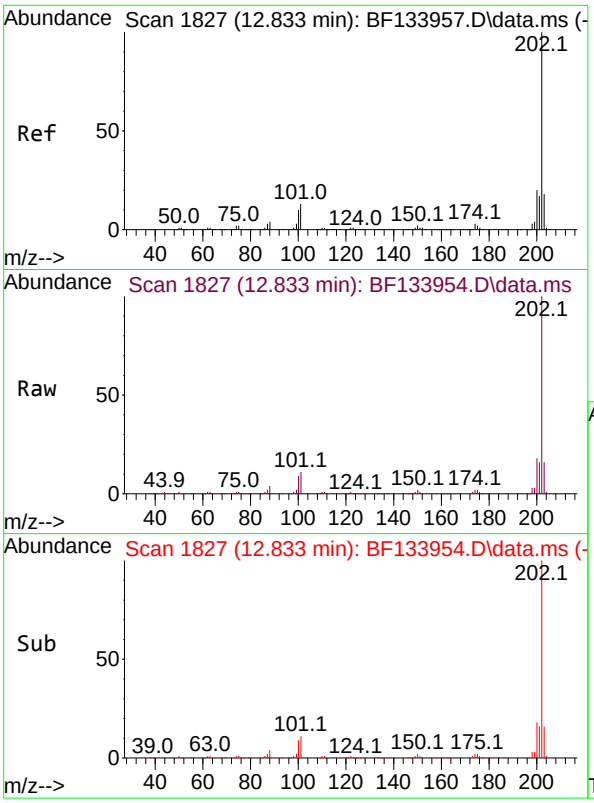


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.039 min Scan# 2032
Delta R.T. -0.006 min
Lab File: BF133954.D
Acq: 26 Jun 2023 15:53

Tgt Ion:240 Resp: 337311

Ion	Ratio	Lower	Upper
240	100		
120	10.8	7.4	11.0
236	26.4	21.0	31.6

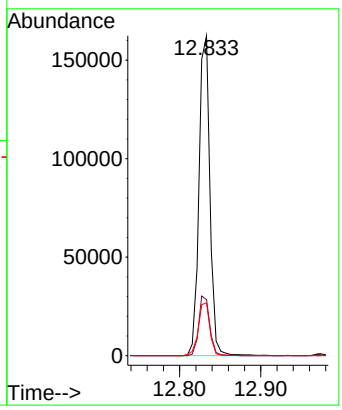




#78
Pyrene
Concen: 4.845 ng
RT: 12.833 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF133954.D
Acq: 26 Jun 2023 15:53

Tgt Ion:202 Resp: 15209

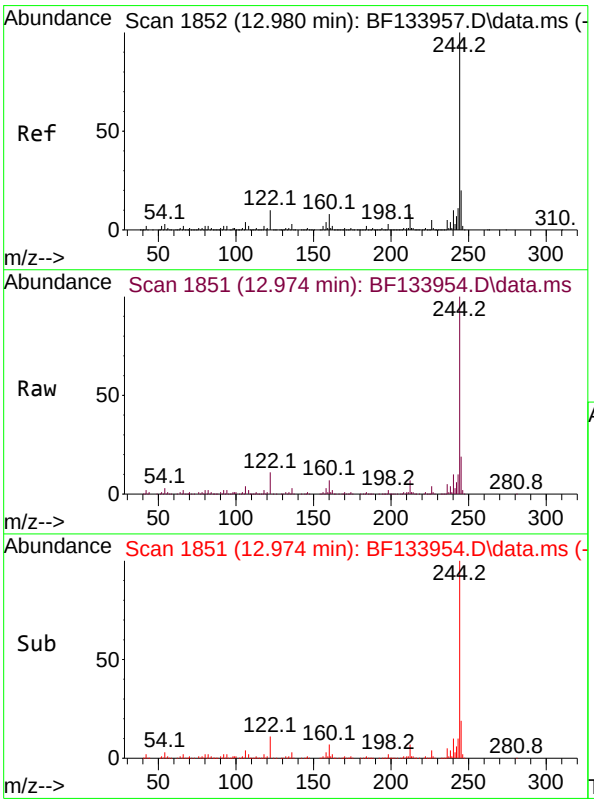
Ion	Ratio	Lower	Upper
202	100		
200	17.5	16.1	24.1
203	16.5	14.3	21.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

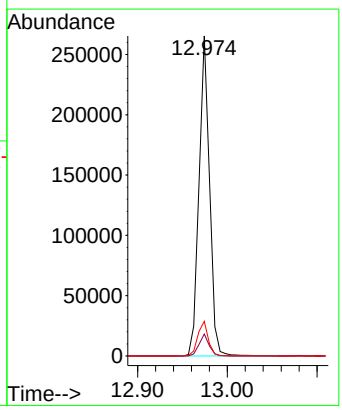
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

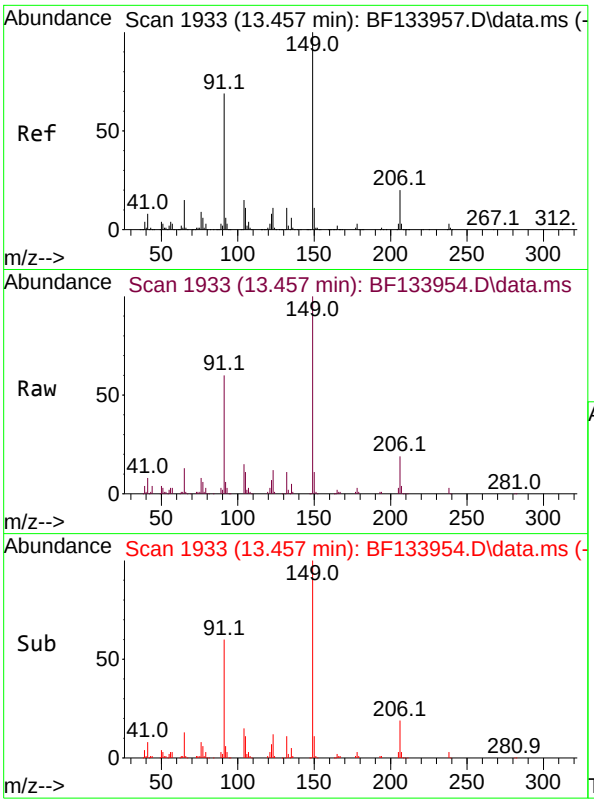


#79
Terphenyl-d14
Concen: 10.322 ng
RT: 12.974 min Scan# 1851
Delta R.T. -0.006 min
Lab File: BF133954.D
Acq: 26 Jun 2023 15:53

Tgt Ion:244 Resp: 216342

Ion	Ratio	Lower	Upper
244	100		
212	6.8	6.0	9.0
122	10.8	8.3	12.5

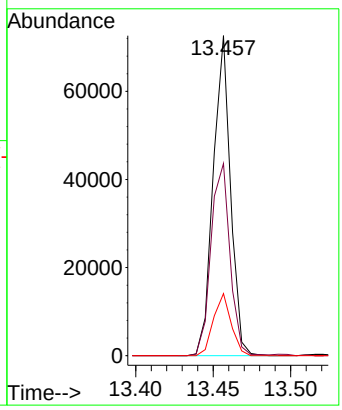




#80
Butylbenzylphthalate
Concen: 4.786 ng
RT: 13.457 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF133954.D
Acq: 26 Jun 2023 15:53

Tgt Ion:149 Resp: 5635

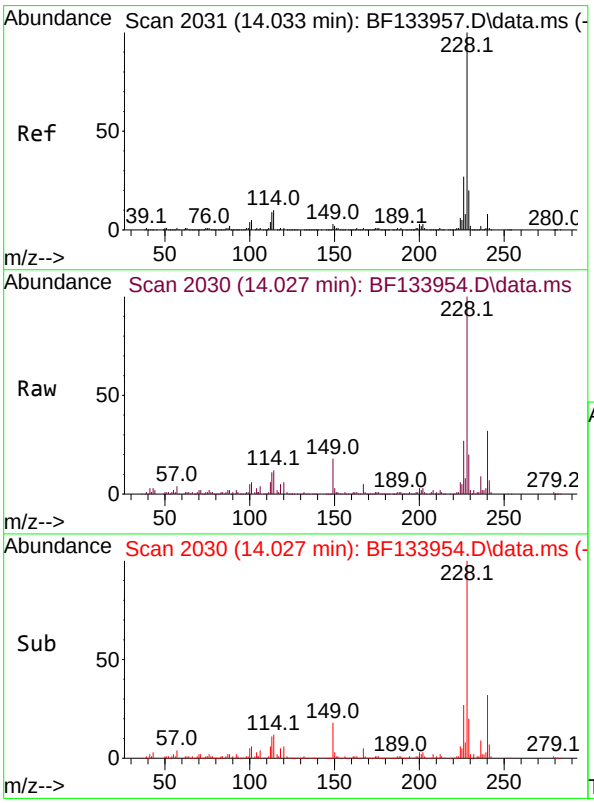
Ion	Ratio	Lower	Upper
149	100		
91	60.1	55.1	82.7
206	19.4	15.7	23.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

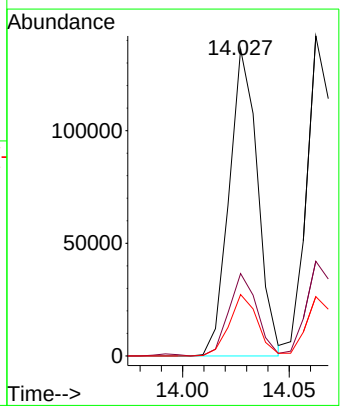
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

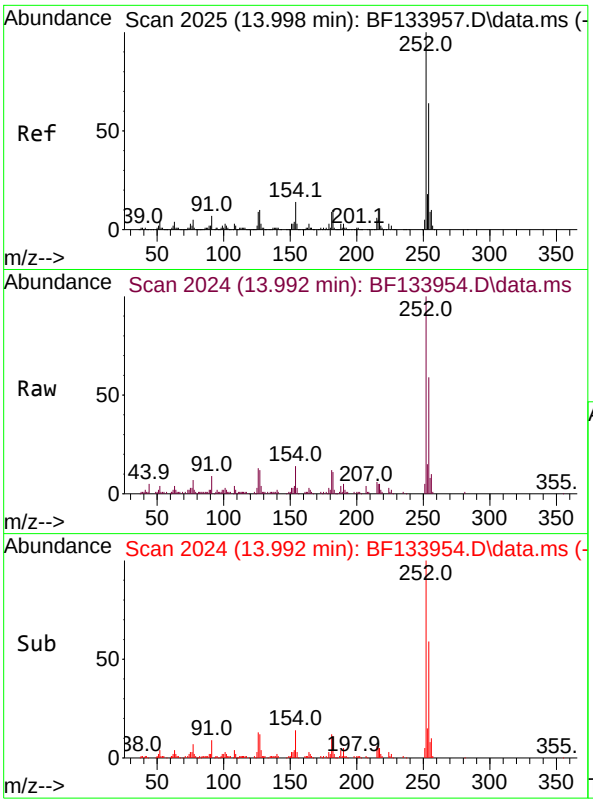


#81
Benzo(a)anthracene
Concen: 5.408 ng
RT: 14.027 min Scan# 2030
Delta R.T. -0.006 min
Lab File: BF133954.D
Acq: 26 Jun 2023 15:53

Tgt Ion:228 Resp: 126521

Ion	Ratio	Lower	Upper
228	100		
226	26.9	22.0	33.0
229	20.0	16.3	24.5

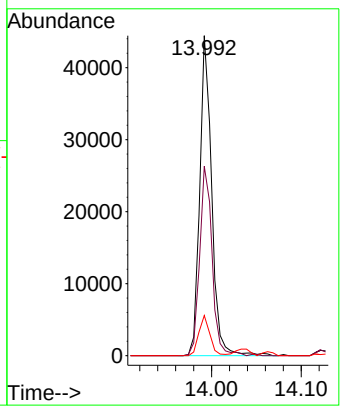




#82
3,3'-Dichlorobenzidine
Concen: 5.539 ng
RT: 13.992 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF133954.D
Acq: 26 Jun 2023 15:53

Tgt Ion:252 Resp: 4105

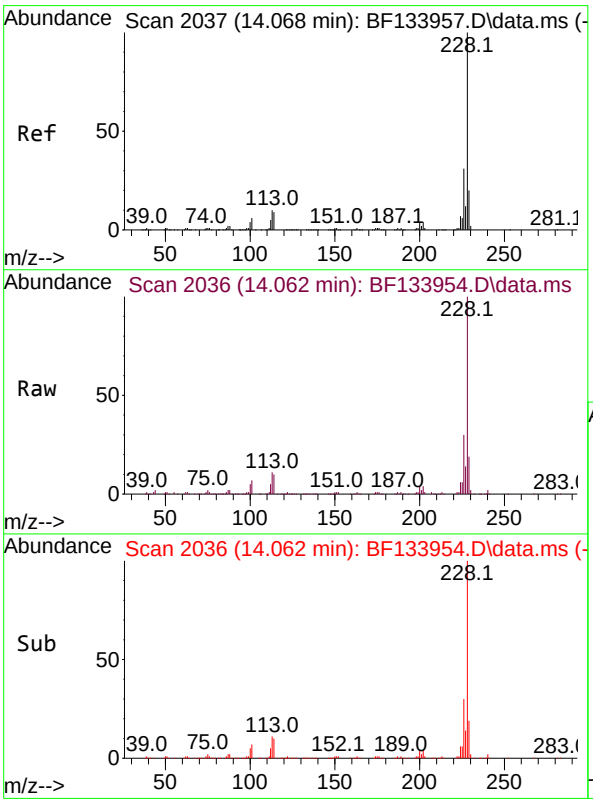
Ion	Ratio	Lower	Upper
252	100		
254	59.2	51.4	77.0
126	12.6	7.4	11.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

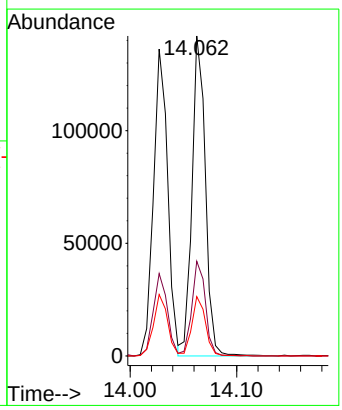
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

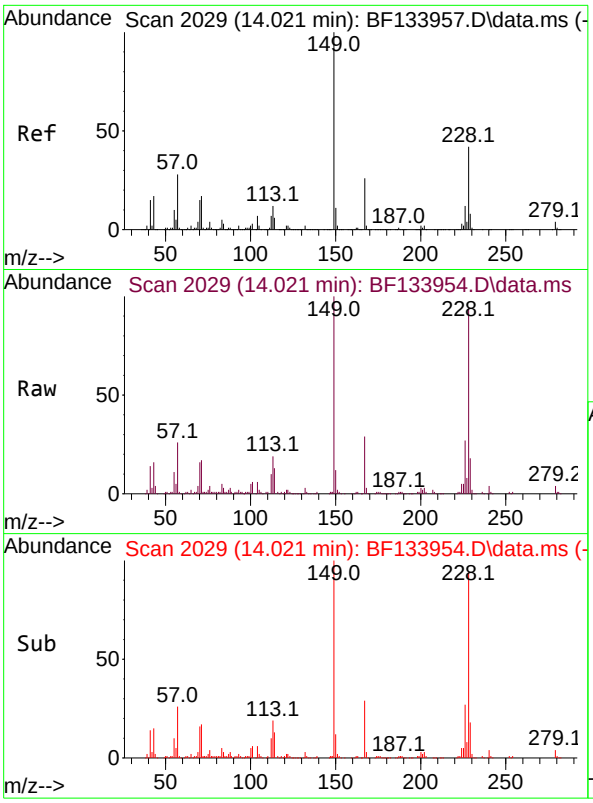


#83
Chrysene
Concen: 5.479 ng
RT: 14.062 min Scan# 2036
Delta R.T. -0.006 min
Lab File: BF133954.D
Acq: 26 Jun 2023 15:53

Tgt Ion:228 Resp: 124142

Ion	Ratio	Lower	Upper
228	100		
226	29.6	24.4	36.6
229	18.5	16.1	24.1





#84
Bis(2-ethylhexyl)phthalate
Concen: 4.695 ng
RT: 14.021 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF133954.D
Acq: 26 Jun 2023 15:53

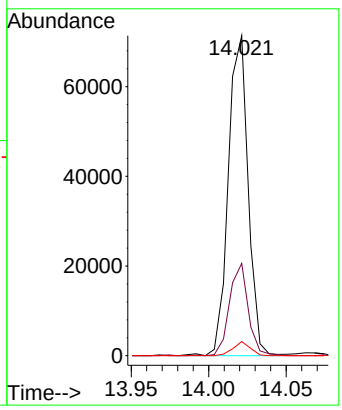
Tgt Ion:149 Resp: 6350

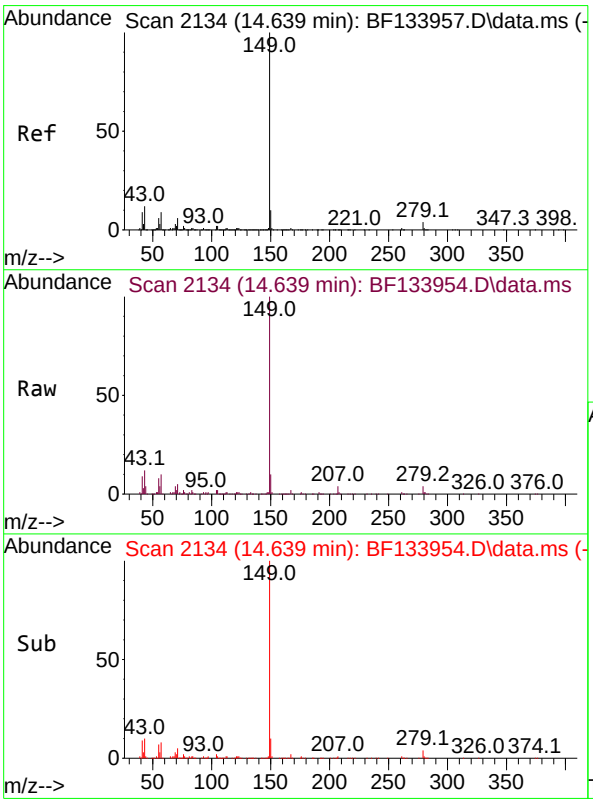
Ion	Ratio	Lower	Upper
149	100		
167	28.9	21.0	31.4
279	4.4	3.3	4.9

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

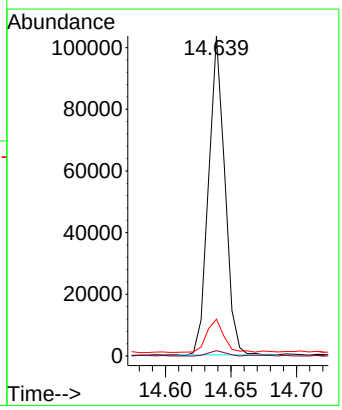


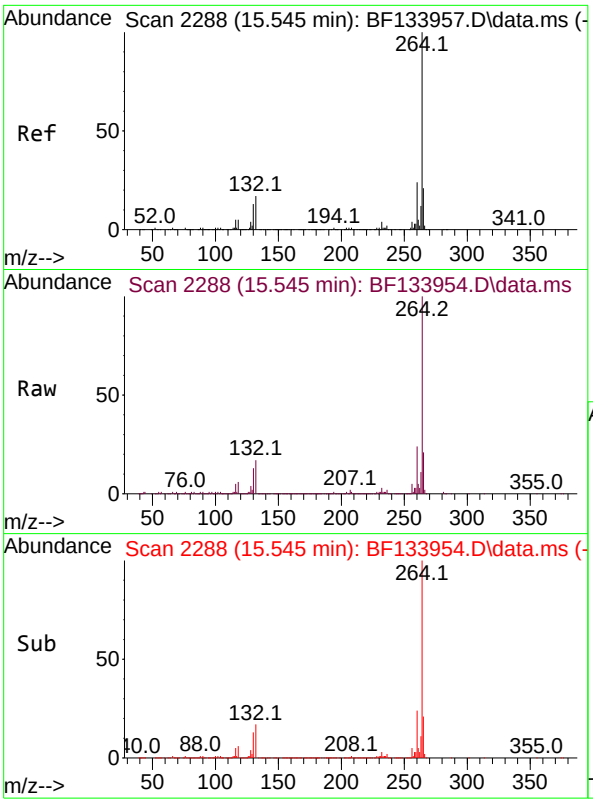


#85
Di-n-octyl phthalate
Concen: 4.501 ng
RT: 14.639 min Scan# 2134
Delta R.T. 0.000 min
Lab File: BF133954.D
Acq: 26 Jun 2023 15:53

Tgt Ion:149 Resp: 89476

Ion	Ratio	Lower	Upper
149	100		
167	1.7	1.3	1.9
43	10.8	9.0	13.4

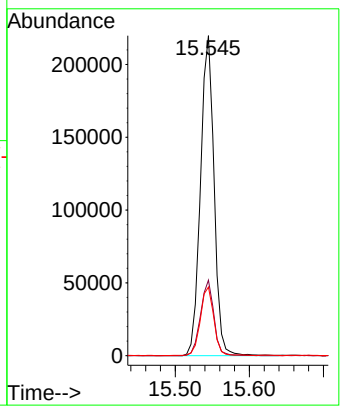




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.545 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF133954.D
Acq: 26 Jun 2023 15:53

Tgt Ion:264 Resp: 27963

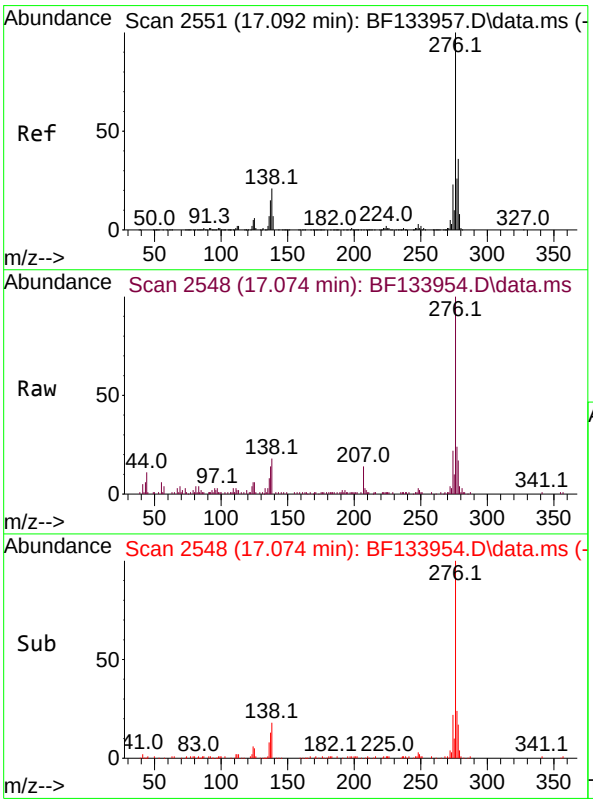
Ion	Ratio	Lower	Upper
264	100		
260	23.6	19.5	29.3
265	21.4	16.6	25.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

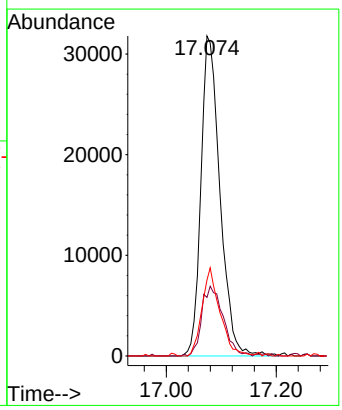
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

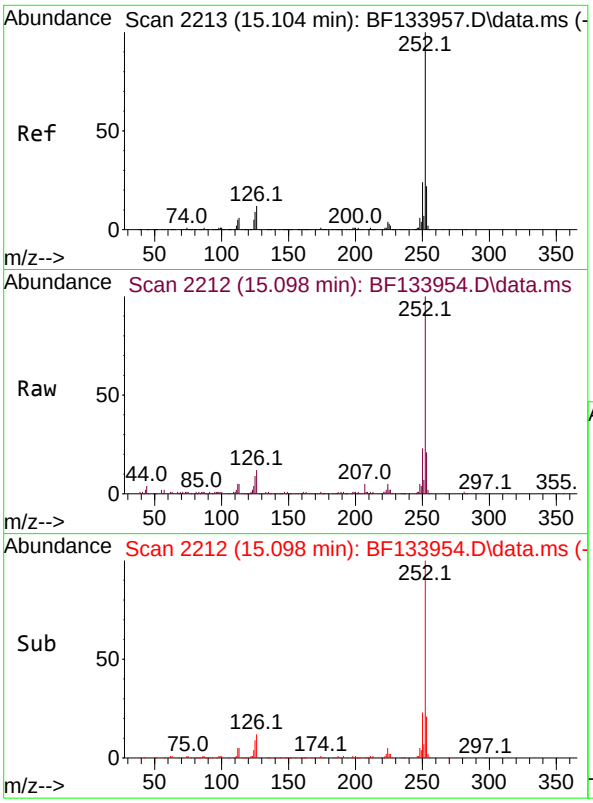


#87
Indeno(1,2,3-cd)pyrene
Concen: 3.945 ng
RT: 17.074 min Scan# 2548
Delta R.T. -0.018 min
Lab File: BF133954.D
Acq: 26 Jun 2023 15:53

Tgt Ion:276 Resp: 76543

Ion	Ratio	Lower	Upper
276	100		
138	24.5	18.7	28.1
277	25.8	19.9	29.9

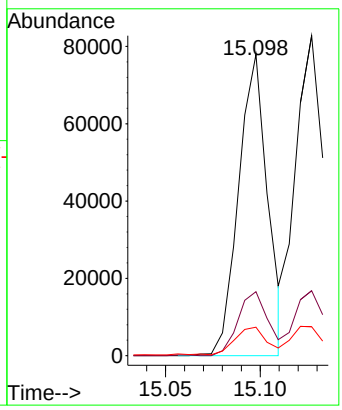




#88
Benzo(b)fluoranthene
Concen: 5.049 ng
RT: 15.098 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF133954.D
Acq: 26 Jun 2023 15:53

Tgt Ion:252 Resp: 8302

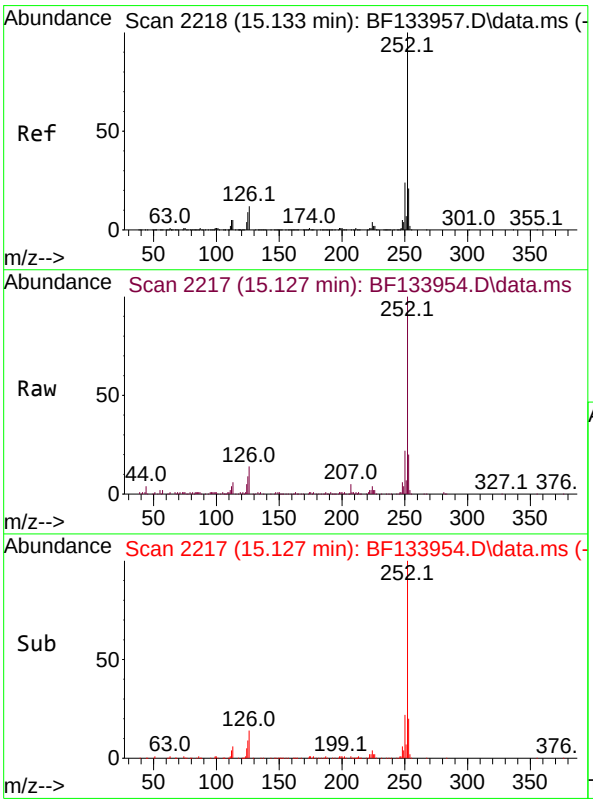
Ion	Ratio	Lower	Upper
252	100		
253	21.2	17.4	26.0
125	9.4	7.1	10.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

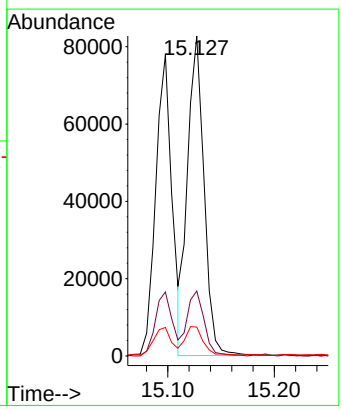
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

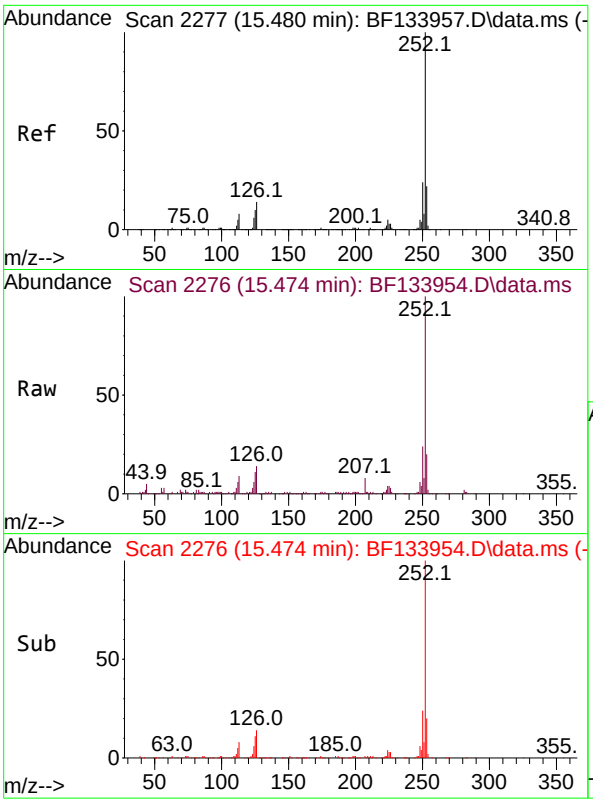


#89
Benzo(k)fluoranthene
Concen: 5.327 ng
RT: 15.127 min Scan# 2217
Delta R.T. -0.006 min
Lab File: BF133954.D
Acq: 26 Jun 2023 15:53

Tgt Ion:252 Resp: 89182

Ion	Ratio	Lower	Upper
252	100		
253	20.3	16.9	25.3
125	9.0	7.4	11.2

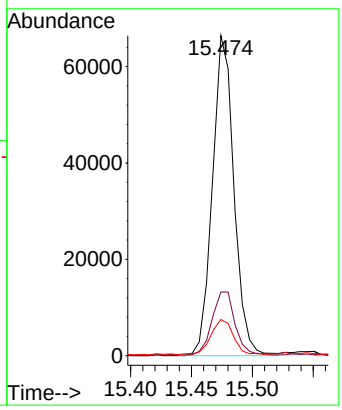




#90
Benzo(a)pyrene
Concen: 5.130 ng
RT: 15.474 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF133954.D
Acq: 26 Jun 2023 15:53

Tgt Ion:252 Resp: 8155

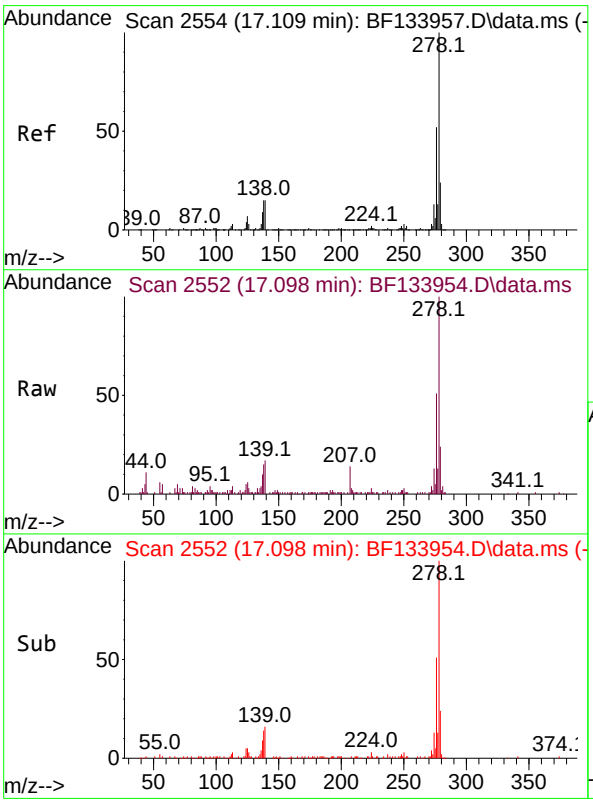
Ion	Ratio	Lower	Upper
252	100		
253	19.9	17.4	26.0
125	11.3	8.4	12.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

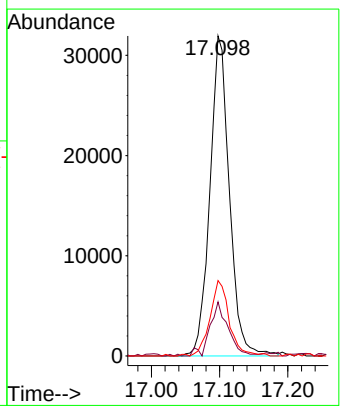
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

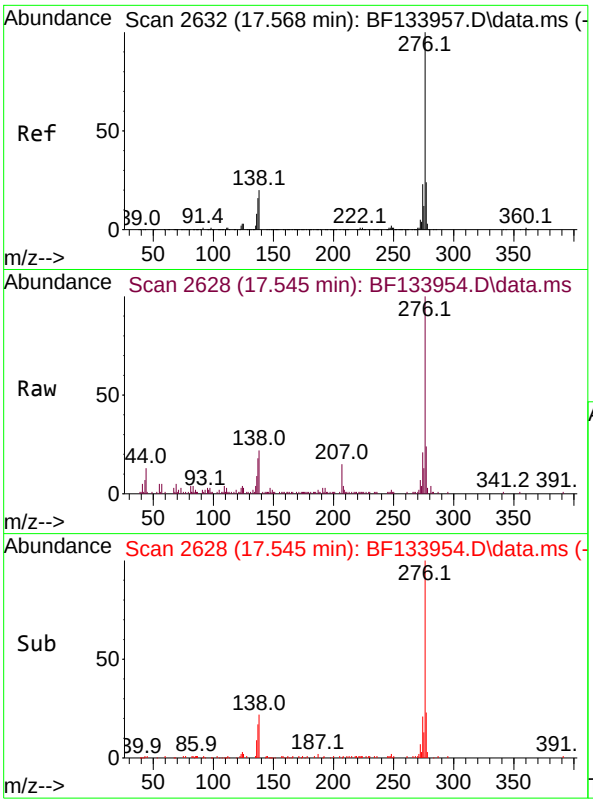


#91
Dibenzo(a,h)anthracene
Concen: 4.016 ng
RT: 17.098 min Scan# 2552
Delta R.T. -0.012 min
Lab File: BF133954.D
Acq: 26 Jun 2023 15:53

Tgt Ion:278 Resp: 63655

Ion	Ratio	Lower	Upper
278	100		
139	16.9	12.2	18.4
279	23.5	19.4	29.2

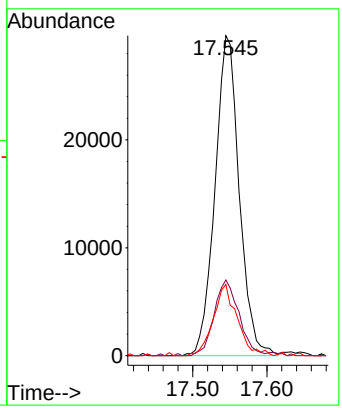




#92
Benzo(g,h,i)perylene
Concen: 4.126 ng
RT: 17.545 min Scan# 2
Delta R.T. -0.024 min
Lab File: BF133954.D
Acq: 26 Jun 2023 15:53

Tgt Ion:276 Resp: 6742

Ion	Ratio	Lower	Upper
276	100		
277	23.7	19.0	28.6
138	22.2	16.2	24.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF062623\
Data File : BF133955.D
Acq On : 26 Jun 2023 16:27
Operator : CG\JU
Sample : SSTDICC010
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 26 23:01:51 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF062623.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Jun 26 22:39:13 2023
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.851	152	115018	20.000	ng	0.00
21) Naphthalene-d8	8.128	136	433219	20.000	ng	0.00
39) Acenaphthene-d10	9.886	164	225696	20.000	ng	0.00
64) Phenanthrene-d10	11.380	188	462736	20.000	ng	0.00
76) Chrysene-d12	14.039	240	329954	20.000	ng	# 0.00
86) Perylene-d12	15.545	264	255445	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.475	112	149629	21.761	ng	0.00
7) Phenol-d6	6.481	99	186893	22.102	ng	-0.01
23) Nitrobenzene-d5	7.410	82	172588	21.475	ng	0.00
42) 2,4,6-Tribromophenol	10.680	330	61894	21.872	ng	0.00
45) 2-Fluorobiphenyl	9.204	172	355296	22.888	ng	0.00
79) Terphenyl-d14	12.974	244	409529	19.976	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.634	88	30644	10.809	ng	98
3) Pyridine	3.428	79	70709m	9.543	ng	
4) n-Nitrosodimethylamine	3.363	42	42964	10.186	ng	95
6) Aniline	6.516	93	107910	10.487	ng	99
8) 2-Chlorophenol	6.634	128	76330	10.936	ng	96
9) Benzaldehyde	6.404	77	60819	10.332	ng	97
10) Phenol	6.492	94	97910	11.012	ng	92
11) bis(2-Chloroethyl)ether	6.587	93	69384	10.600	ng	98
12) 1,3-Dichlorobenzene	6.792	146	80546	10.824	ng	95
13) 1,4-Dichlorobenzene	6.869	146	81647	10.863	ng	98
14) 1,2-Dichlorobenzene	7.016	146	78614	11.168	ng	99
15) Benzyl Alcohol	6.987	79	70749	10.853	ng	98
16) 2,2'-oxybis(1-Chloropr...	7.128	45	124778	10.775	ng	99
17) 2-Methylphenol	7.098	107	67257	10.761	ng	97
18) Hexachloroethane	7.357	117	29862	10.715	ng	92
19) n-Nitroso-di-n-propyla...	7.251	70	57315	10.688	ng	96
20) 3+4-Methylphenols	7.251	107	85405	11.263	ng	93
22) Acetophenone	7.257	105	110216	11.187	ng	91
24) Nitrobenzene	7.428	77	86666	10.672	ng	98
25) Isophorone	7.663	82	154957	10.609	ng	97
26) 2-Nitrophenol	7.745	139	38671	9.926	ng	99
27) 2,4-Dimethylphenol	7.781	122	65552	10.630	ng	99
28) bis(2-Chloroethoxy)met...	7.875	93	91385	10.805	ng	98
29) 2,4-Dichlorophenol	7.986	162	63280	10.348	ng	97
30) 1,2,4-Trichlorobenzene	8.069	180	66698	10.570	ng	99
31) Naphthalene	8.151	128	229194	10.953	ng	99
32) Benzoic acid	7.857	122	42813m	9.448	ng	
33) 4-Chloroaniline	8.198	127	95434	10.661	ng	98
34) Hexachlorobutadiene	8.263	225	42823	10.759	ng	98
35) Caprolactam	8.545	113	20717	10.289	ng	95
36) 4-Chloro-3-methylphenol	8.681	107	74047	10.779	ng	98
37) 2-Methylnaphthalene	8.839	142	163384	11.041	ng	99
38) 1-Methylnaphthalene	8.939	142	150805	10.962	ng	98
40) 1,2,4,5-Tetrachloroben...	9.010	216	72086	10.781	ng	98
41) Hexachlorocyclopentadiene	8.992	237	24190	7.626	ng	98
43) 2,4,6-Trichlorophenol	9.122	196	48848	10.731	ng	97

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF062623\
Data File : BF133955.D
Acq On : 26 Jun 2023 16:27
Operator : CG\JU
Sample : SSTDICC010
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 26 23:01:51 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF062623.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Jun 26 22:39:13 2023
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.163	196	56748	10.599	ng		92
46) 1,1'-Biphenyl	9.304	154	199440	11.016	ng		99
47) 2-Chloronaphthalene	9.333	162	144971	10.944	ng		99
48) 2-Nitroaniline	9.428	65	50073	10.372	ng		95
49) Acenaphthylene	9.751	152	248894	10.999	ng		99
50) Dimethylphthalate	9.604	163	178405	10.889	ng		100
51) 2,6-Dinitrotoluene	9.669	165	36413	10.319	ng	#	87
52) Acenaphthene	9.922	154	144359	10.994	ng		98
53) 3-Nitroaniline	9.839	138	43919	10.375	ng		96
54) 2,4-Dinitrophenol	9.951	184	13763	10.291	ng		93
55) Dibenzofuran	10.092	168	227438	11.084	ng		98
56) 4-Nitrophenol	10.004	139	29605	9.998	ng		94
57) 2,4-Dinitrotoluene	10.075	165	49535	10.630	ng	#	96
58) Fluorene	10.439	166	181843	11.390	ng		99
59) 2,3,4,6-Tetrachlorophenol	10.210	232	45223	10.708	ng		98
60) Diethylphthalate	10.310	149	190935	11.186	ng		99
61) 4-Chlorophenyl-phenyle...	10.427	204	86530	11.247	ng		98
62) 4-Nitroaniline	10.451	138	44729	10.484	ng		99
63) Azobenzene	10.592	77	175363	10.861	ng		99
65) 4,6-Dinitro-2-methylph...	10.486	198	23666	9.381	ng		93
66) n-Nitrosodiphenylamine	10.551	169	157392	10.646	ng		99
67) 4-Bromophenyl-phenylether	10.922	248	51327	10.436	ng		91
68) Hexachlorobenzene	10.986	284	54558	10.448	ng		94
69) Atrazine	11.074	200	46459	11.361	ng		97
70) Pentachlorophenol	11.186	266	31164	9.981	ng		96
71) Phenanthrene	11.404	178	255770	10.980	ng		100
72) Anthracene	11.457	178	265019	10.938	ng		98
73) Carbazole	11.616	167	246550	11.117	ng		100
74) Di-n-butylphthalate	11.945	149	292473	11.090	ng		100
75) Fluoranthene	12.604	202	288393	11.451	ng		97
77) Benzidine	12.727	184	96239	12.258	ng		99
78) Pyrene	12.833	202	295311	9.617	ng		99
80) Butylbenzylphthalate	13.457	149	115832	10.058	ng		97
81) Benzo(a)anthracene	14.027	228	241184	10.540	ng		98
82) 3,3'-Dichlorobenzidine	13.992	252	80099	11.048	ng		98
83) Chrysene	14.068	228	231651	10.452	ng		98
84) Bis(2-ethylhexyl)phtha...	14.021	149	137185	10.367	ng		98
85) Di-n-octyl phthalate	14.639	149	185488	9.539	ng		99
87) Indeno(1,2,3-cd)pyrene	17.080	276	150950	8.516	ng		98
88) Benzo(b)fluoranthene	15.098	252	167852	11.175	ng		97
89) Benzo(k)fluoranthene	15.127	252	174382	11.403	ng		98
90) Benzo(a)pyrene	15.474	252	153113	10.542	ng		98
91) Dibenzo(a,h)anthracene	17.098	278	127104	8.779	ng		98
92) Benzo(g,h,i)perylene	17.551	276	125066	8.377	ng		98

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

ICAL Form

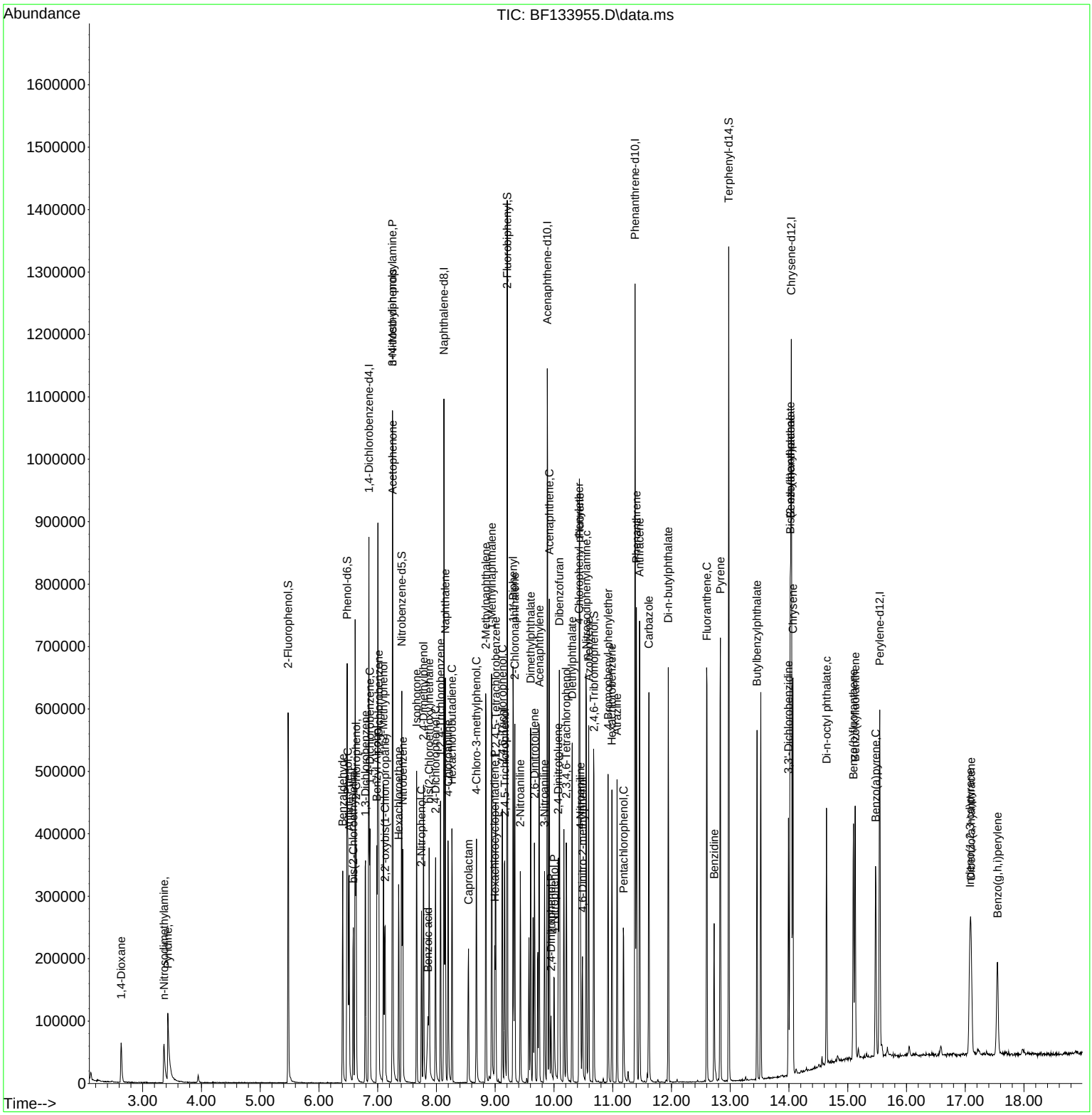
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF062623\
Data File : BF133955.D
Acq On : 26 Jun 2023 16:27
Operator : CG\JU
Sample : SSTDICC010
Misc :
ALS Vial : 4 Sample Multiplier: 1

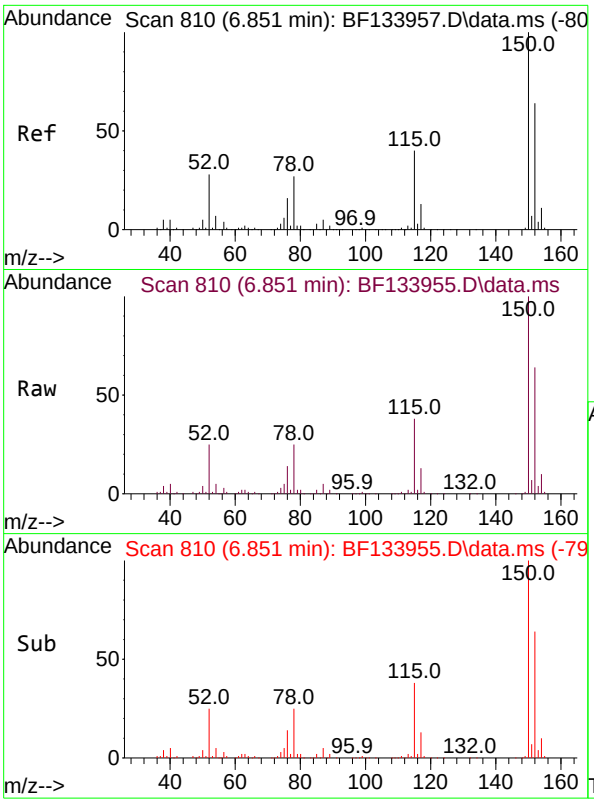
Quant Time: Jun 26 23:01:51 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF062623.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Jun 26 22:39:13 2023
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

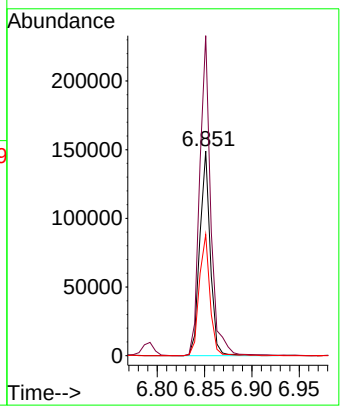




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.851 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF133955.D
Acq: 26 Jun 2023 16:27

Tgt Ion:152 Resp: 11501

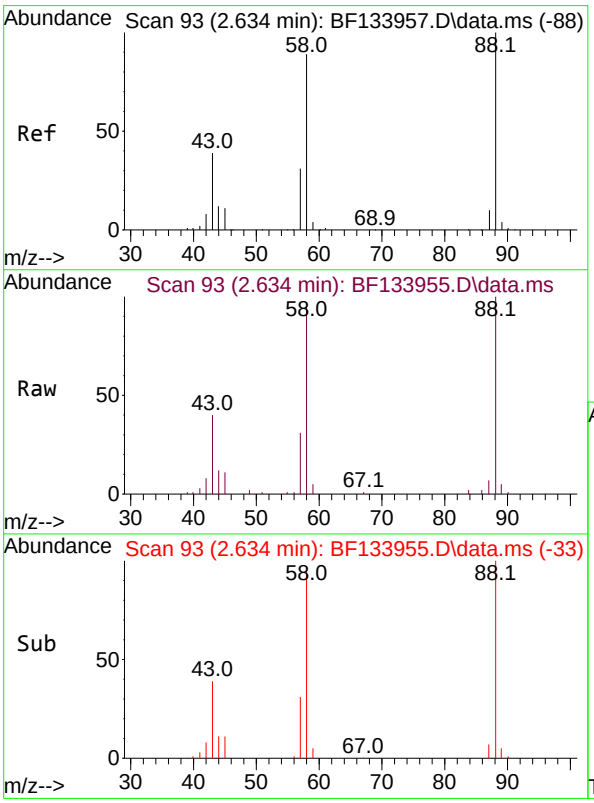
Ion	Ratio	Lower	Upper
152	100		
150	156.4	124.5	186.7
115	59.2	50.2	75.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

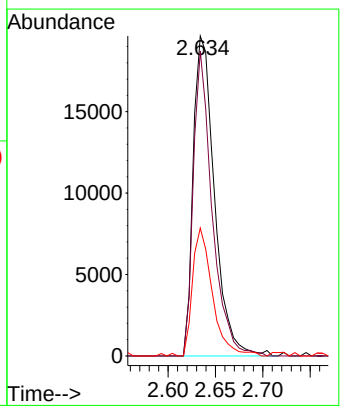
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

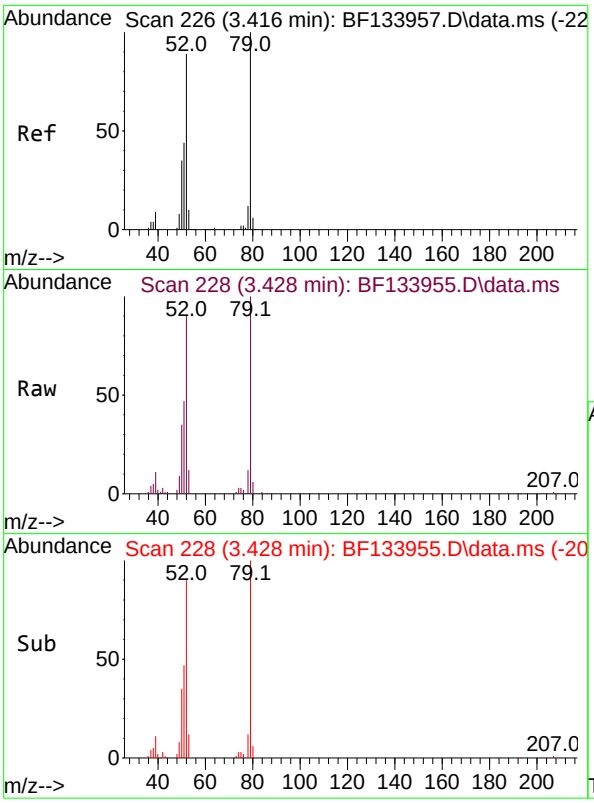


#2
1,4-Dioxane
Concen: 10.809 ng
RT: 2.634 min Scan# 93
Delta R.T. 0.000 min
Lab File: BF133955.D
Acq: 26 Jun 2023 16:27

Tgt Ion: 88 Resp: 30644

Ion	Ratio	Lower	Upper
88	100		
58	84.5	68.8	103.2
43	37.4	30.7	46.1

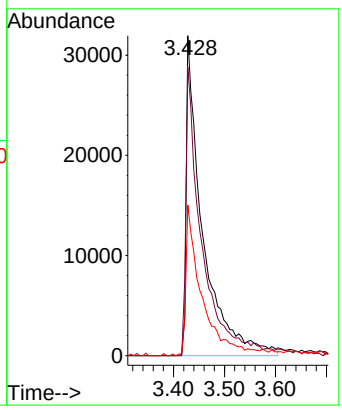




#3
Pyridine
Concen: 9.543 ng m
RT: 3.428 min Scan# 2
Delta R.T. 0.012 min
Lab File: BF133955.D
Acq: 26 Jun 2023 16:27

Tgt Ion: 79 Resp: 7070

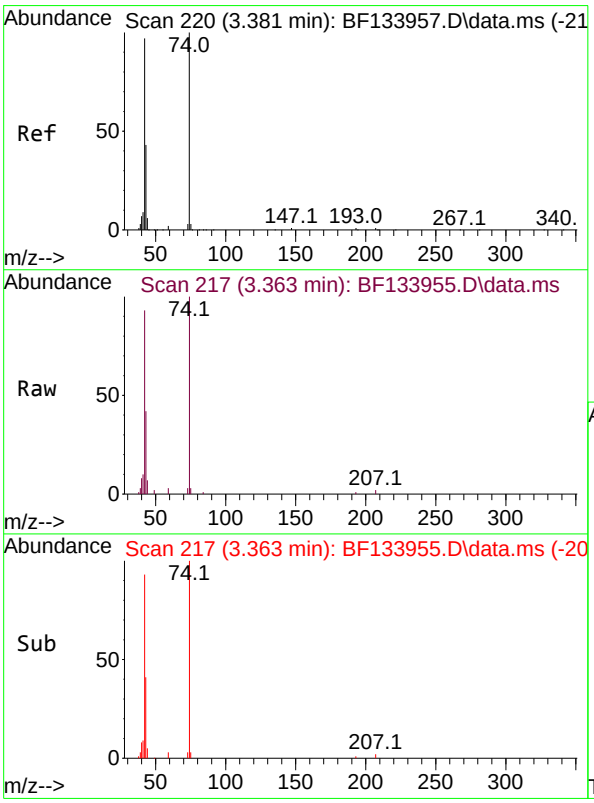
Ion	Ratio	Lower	Upper
79	100		
52	90.2	71.1	106.7
51	47.1	35.2	52.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

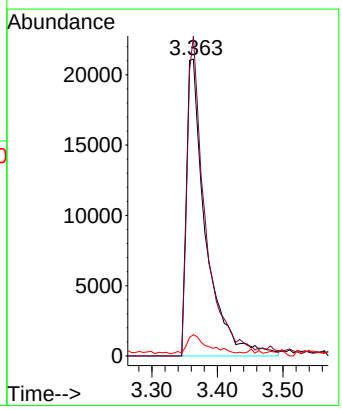
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

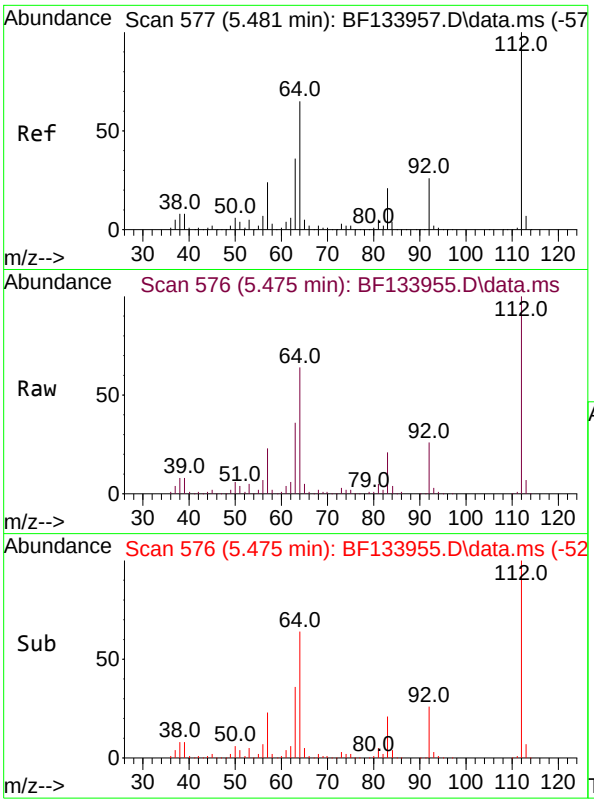


#4
n-Nitrosodimethylamine
Concen: 10.186 ng
RT: 3.363 min Scan# 217
Delta R.T. -0.018 min
Lab File: BF133955.D
Acq: 26 Jun 2023 16:27

Tgt Ion: 42 Resp: 42964

Ion	Ratio	Lower	Upper
42	100		
74	107.8	82.4	123.6
44	7.2	4.9	7.3

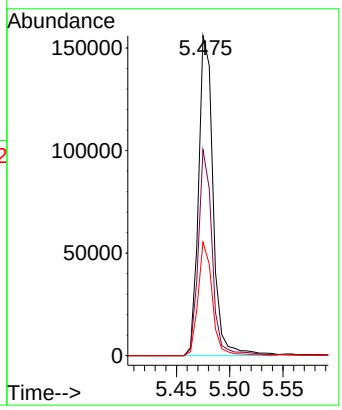




#5
2-Fluorophenol
Concen: 21.761 ng
RT: 5.475 min Scan# 5
Delta R.T. -0.006 min
Lab File: BF133955.D
Acq: 26 Jun 2023 16:27

Tgt Ion:112 Resp: 14962

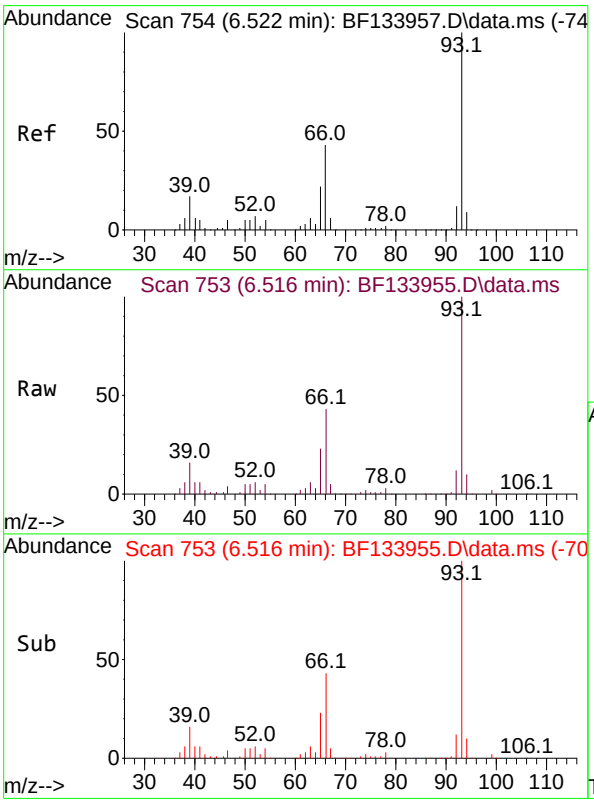
Ion	Ratio	Lower	Upper
112	100		
64	64.3	52.1	78.1
63	35.5	28.6	42.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

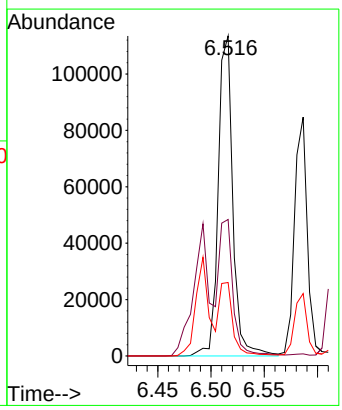
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

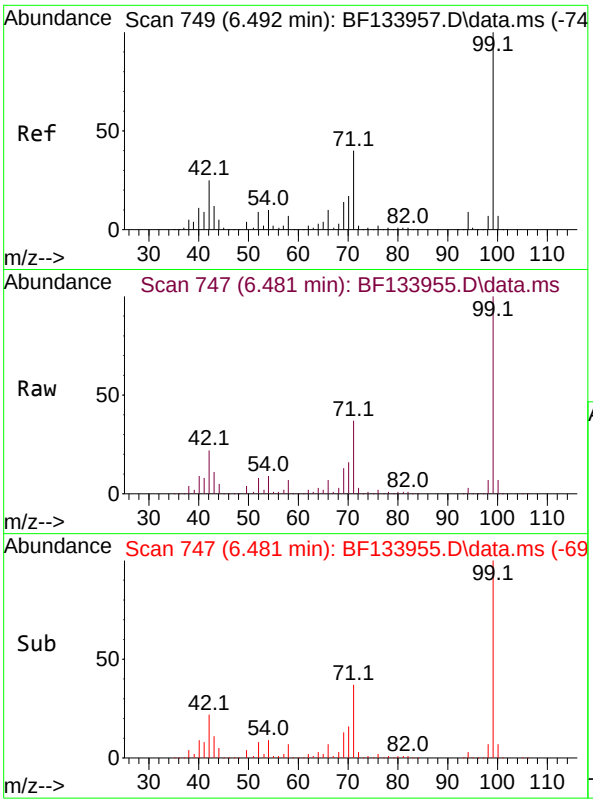


#6
Aniline
Concen: 10.487 ng
RT: 6.516 min Scan# 753
Delta R.T. -0.006 min
Lab File: BF133955.D
Acq: 26 Jun 2023 16:27

Tgt Ion: 93 Resp: 107910

Ion	Ratio	Lower	Upper
93	100		
66	42.6	34.5	51.7
65	23.0	17.8	26.6

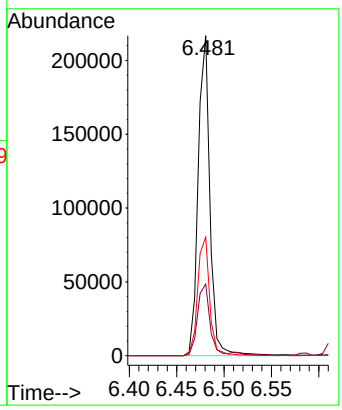




#7
Phenol-d6
Concen: 22.102 ng
RT: 6.481 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF133955.D
Acq: 26 Jun 2023 16:27

Tgt Ion: 99 Resp: 18689

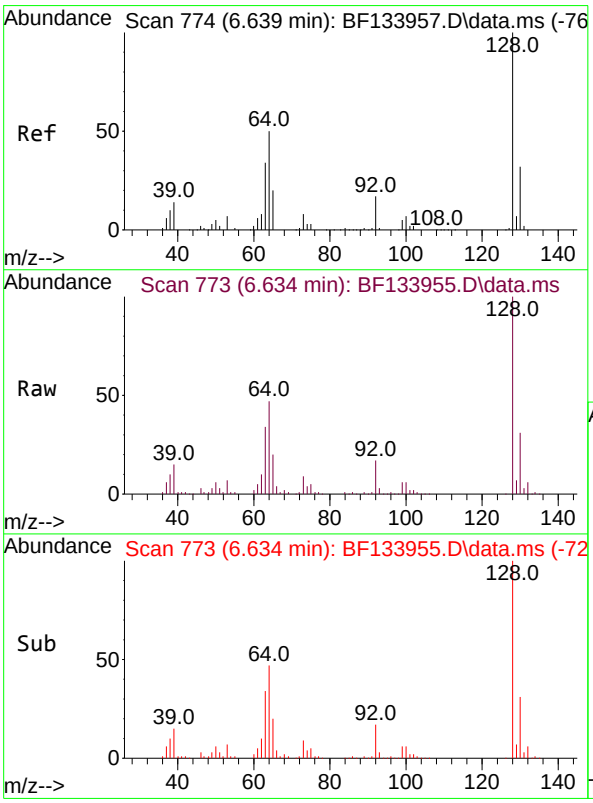
Ion	Ratio	Lower	Upper
99	100		
42	22.4	19.8	29.6
71	37.0	31.9	47.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

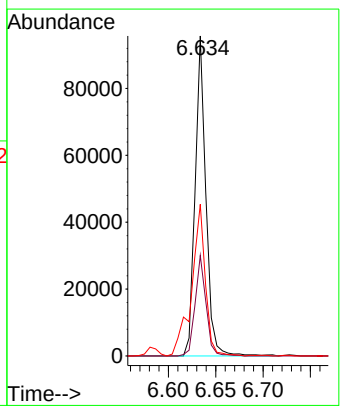
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

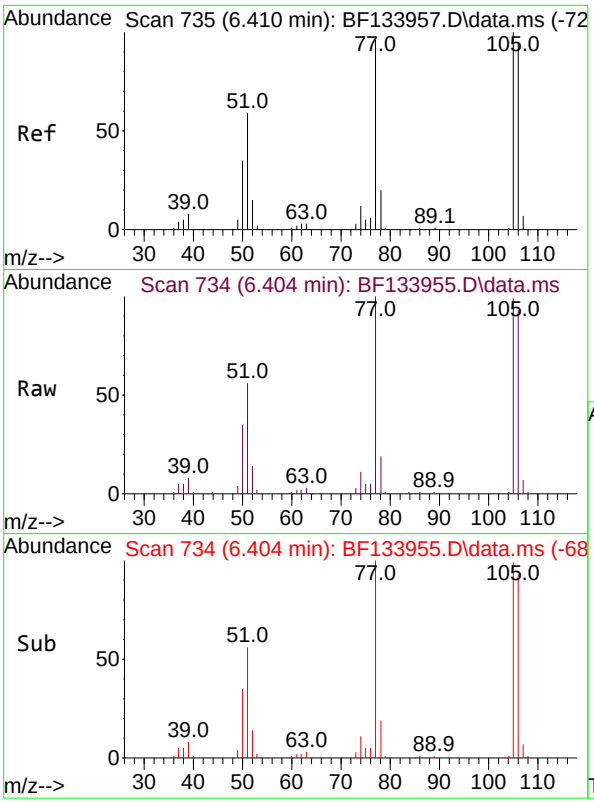


#8
2-Chlorophenol
Concen: 10.936 ng
RT: 6.634 min Scan# 773
Delta R.T. -0.006 min
Lab File: BF133955.D
Acq: 26 Jun 2023 16:27

Tgt Ion:128 Resp: 76330

Ion	Ratio	Lower	Upper
128	100		
130	31.4	11.7	51.7
64	47.4	31.3	71.3

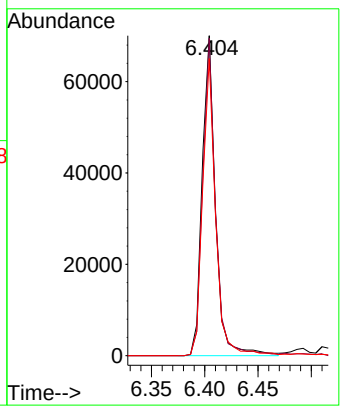




#9
Benzaldehyde
Concen: 10.332 ng
RT: 6.404 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF133955.D
Acq: 26 Jun 2023 16:27

Tgt Ion: 77 Resp: 6081

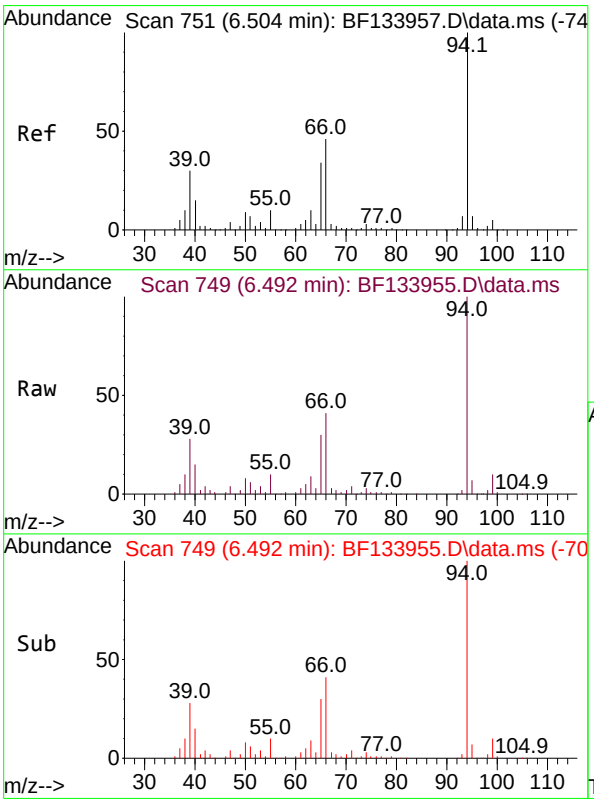
Ion	Ratio	Lower	Upper
77	100		
105	99.1	82.0	122.0
106	92.8	76.9	116.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

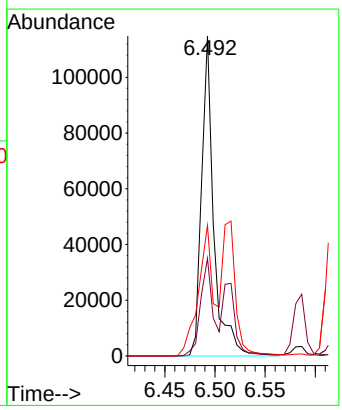
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

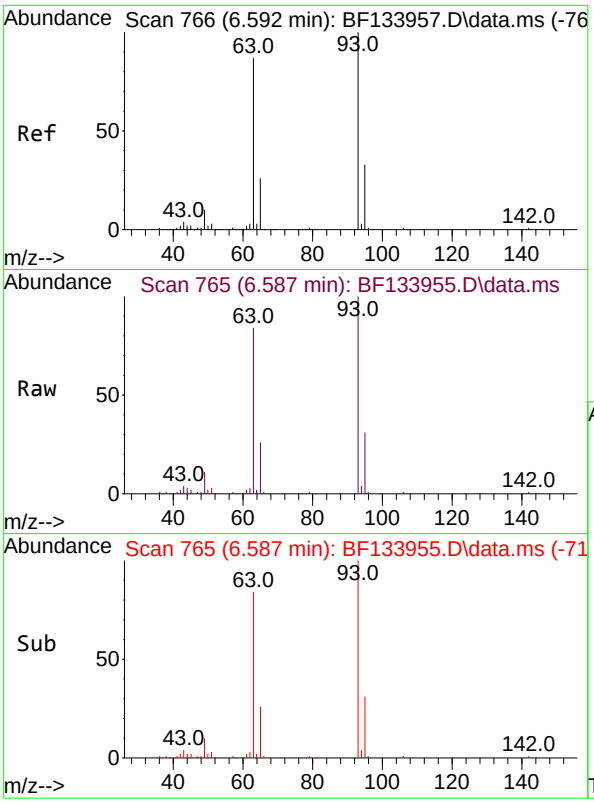


#10
Phenol
Concen: 11.012 ng
RT: 6.492 min Scan# 749
Delta R.T. -0.012 min
Lab File: BF133955.D
Acq: 26 Jun 2023 16:27

Tgt Ion: 94 Resp: 97910

Ion	Ratio	Lower	Upper
94	100		
65	30.5	14.2	54.2
66	40.8	26.4	66.4

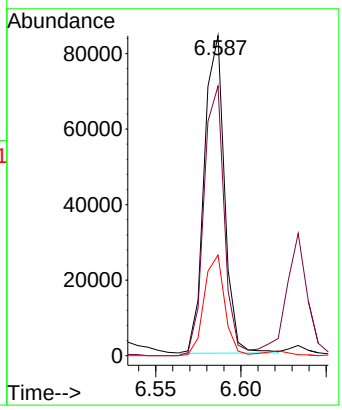




#11
bis(2-Chloroethyl)ether
Concen: 10.600 ng
RT: 6.587 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF133955.D
Acq: 26 Jun 2023 16:27

Tgt Ion: 93 Resp: 6938

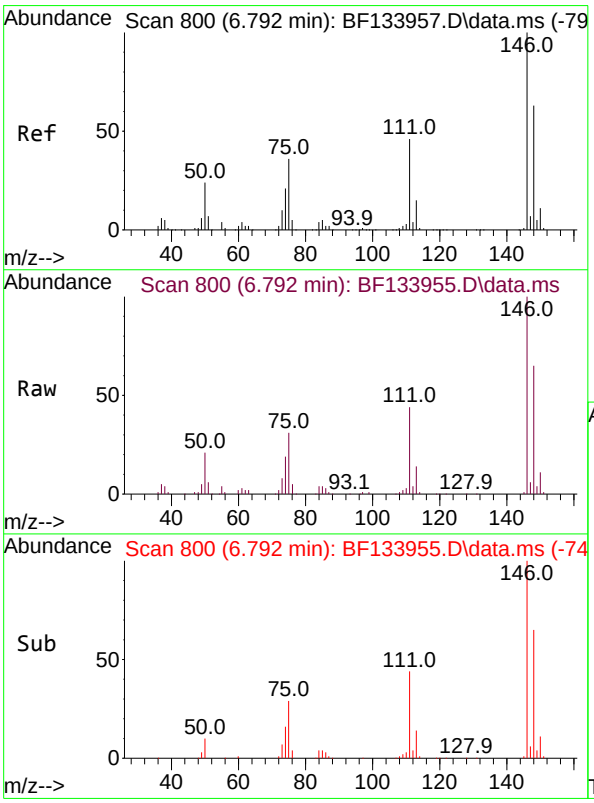
Ion	Ratio	Lower	Upper
93	100		
63	84.2	66.5	106.5
95	31.5	12.9	52.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

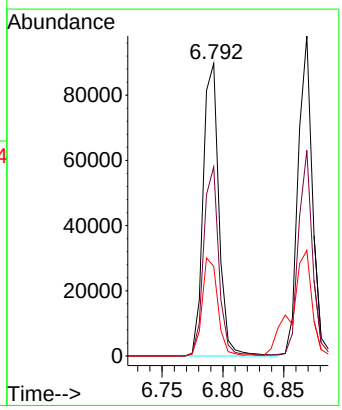
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

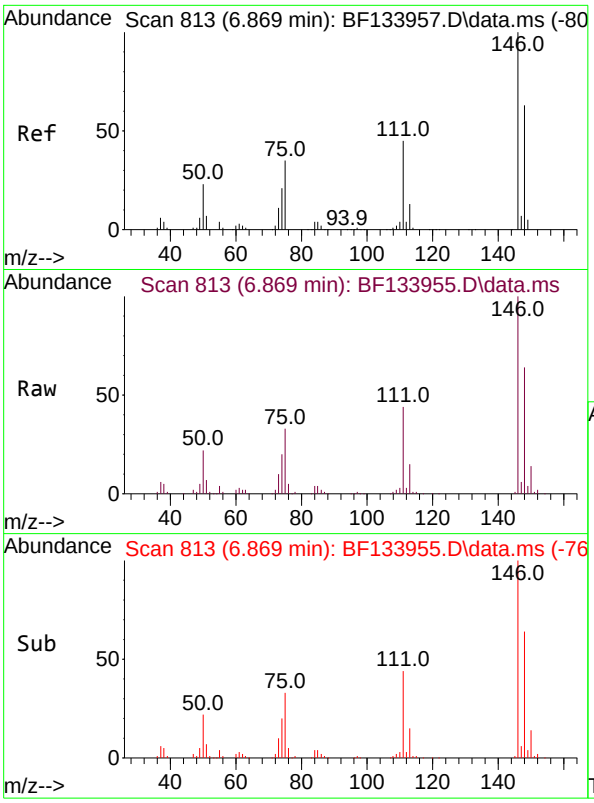


#12
1,3-Dichlorobenzene
Concen: 10.824 ng
RT: 6.792 min Scan# 800
Delta R.T. 0.000 min
Lab File: BF133955.D
Acq: 26 Jun 2023 16:27

Tgt Ion:146 Resp: 80546

Ion	Ratio	Lower	Upper
146	100		
148	64.7	50.5	75.7
75	30.7	29.0	43.6

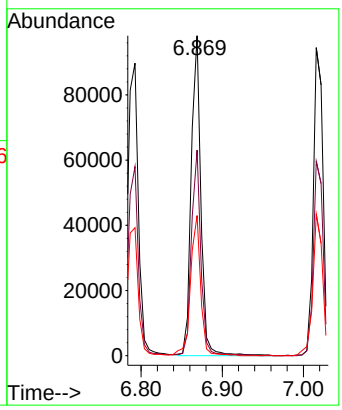




#13
1,4-Dichlorobenzene
Concen: 10.863 ng
RT: 6.869 min Scan# 81
Delta R.T. 0.000 min
Lab File: BF133955.D
Acq: 26 Jun 2023 16:27

Tgt Ion:146 Resp: 8164

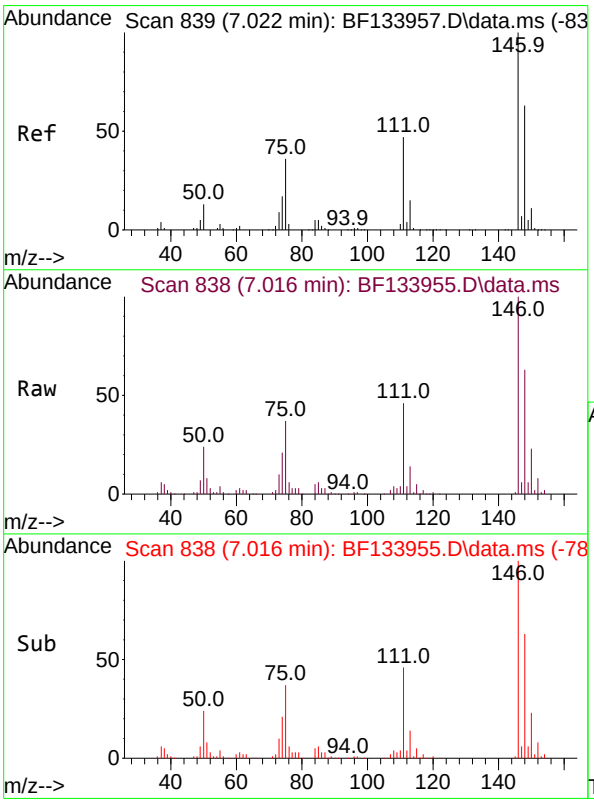
Ion	Ratio	Lower	Upper
146	100		
148	64.3	50.2	75.2
111	43.8	35.8	53.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

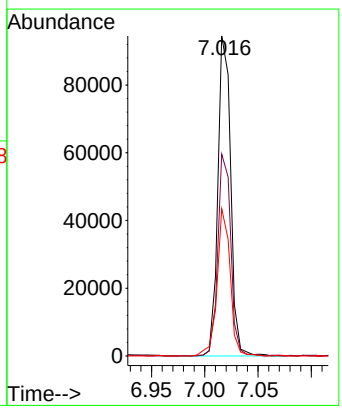
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

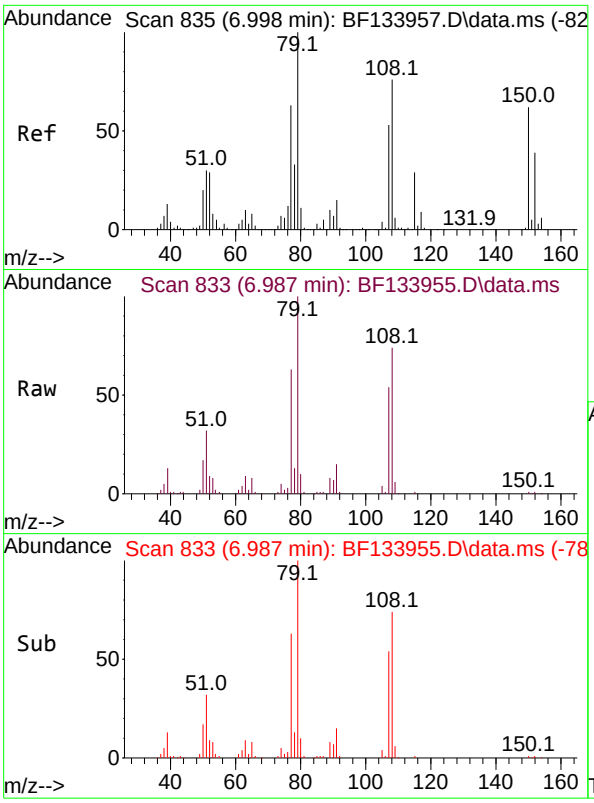


#14
1,2-Dichlorobenzene
Concen: 11.168 ng
RT: 7.016 min Scan# 838
Delta R.T. -0.006 min
Lab File: BF133955.D
Acq: 26 Jun 2023 16:27

Tgt Ion:146 Resp: 78614

Ion	Ratio	Lower	Upper
146	100		
148	63.1	50.6	76.0
111	46.0	38.0	57.0





#15
Benzyl Alcohol
Concen: 10.853 ng
RT: 6.987 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF133955.D
Acq: 26 Jun 2023 16:27

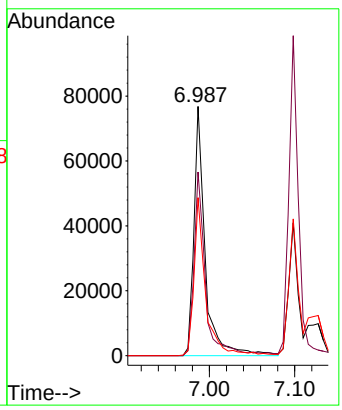
Tgt Ion: 79 Resp: 7074

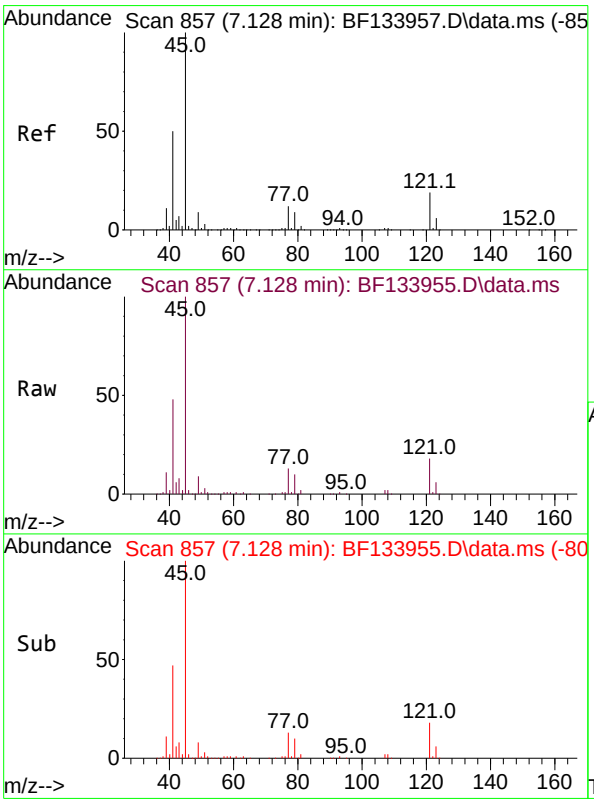
Ion	Ratio	Lower	Upper
79	100		
108	73.7	60.7	91.1
77	63.4	50.6	75.8

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

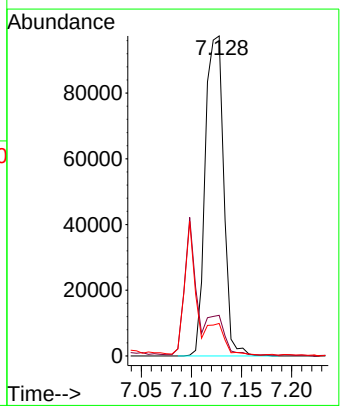


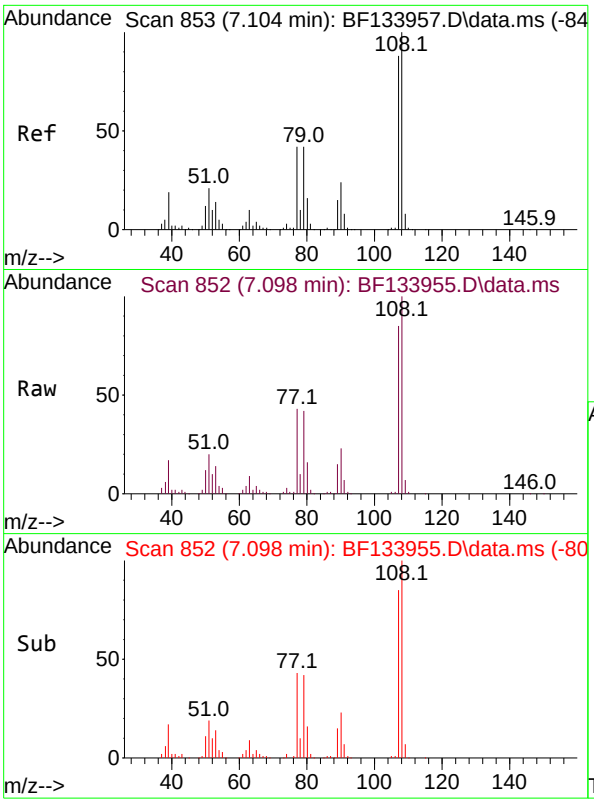


#16
2,2'-oxybis(1-Chloropropane)
Concen: 10.775 ng
RT: 7.128 min Scan# 857
Delta R.T. 0.000 min
Lab File: BF133955.D
Acq: 26 Jun 2023 16:27

Tgt Ion: 45 Resp: 124778

Ion	Ratio	Lower	Upper
45	100		
77	12.7	0.0	32.9
79	10.1	0.0	29.5

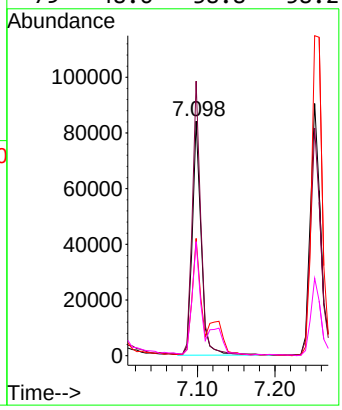




#17
2-Methylphenol
Concen: 10.761 ng
RT: 7.098 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF133955.D
Acq: 26 Jun 2023 16:27

Tgt Ion:107 Resp: 6725

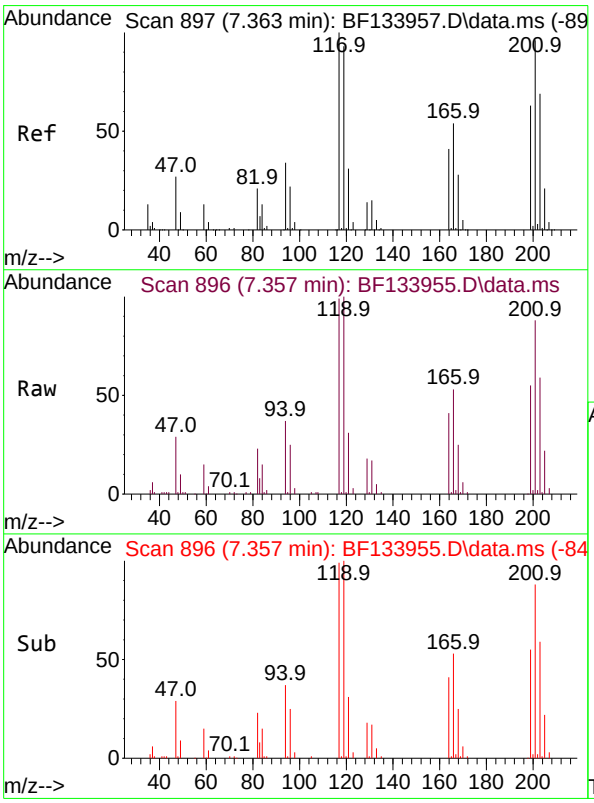
Ion	Ratio	Lower	Upper
107	100		
108	117.0	90.6	136.0
77	50.0	38.3	57.5
79	48.6	38.8	58.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

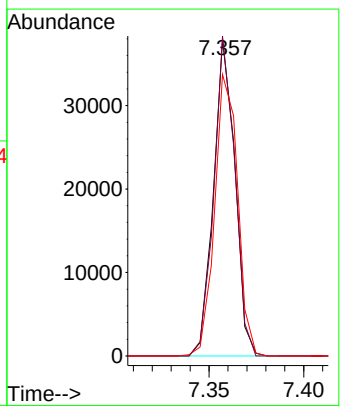
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

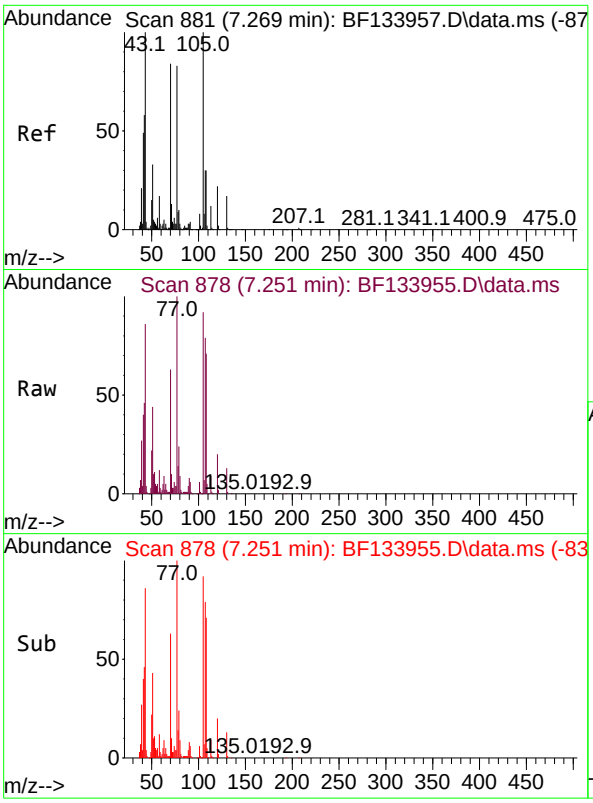


#18
Hexachloroethane
Concen: 10.715 ng
RT: 7.357 min Scan# 896
Delta R.T. -0.006 min
Lab File: BF133955.D
Acq: 26 Jun 2023 16:27

Tgt Ion:117 Resp: 29862

Ion	Ratio	Lower	Upper
117	100		
119	101.1	74.2	111.4
201	89.0	77.2	115.8

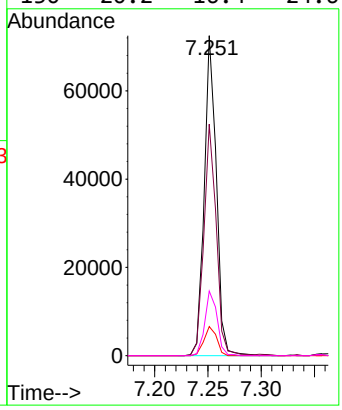




#19
n-Nitroso-di-n-propylamine
Concen: 10.688 ng
RT: 7.251 min Scan# 8
Delta R.T. -0.018 min
Lab File: BF133955.D
Acq: 26 Jun 2023 16:27

Tgt Ion: 70 Resp: 5731

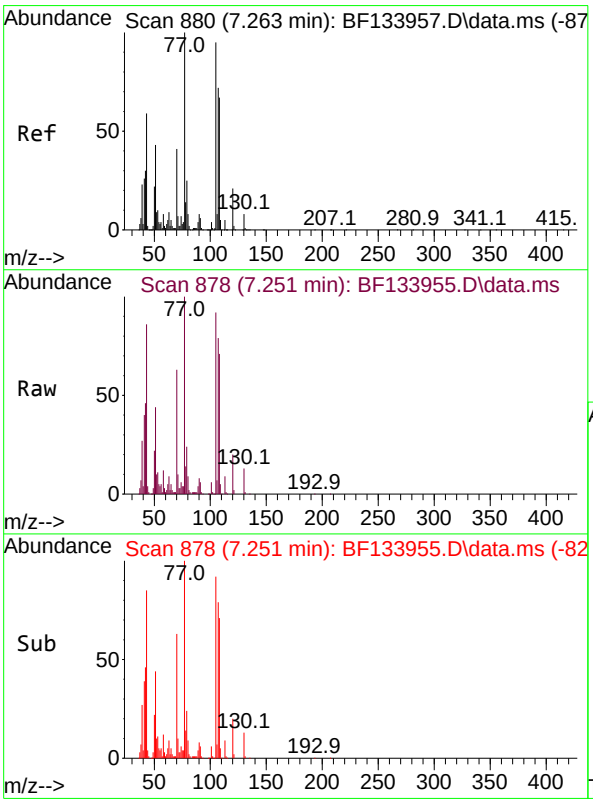
Ion	Ratio	Lower	Upper
70	100		
42	72.4	54.7	82.1
101	9.1	7.7	11.5
130	20.2	16.4	24.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

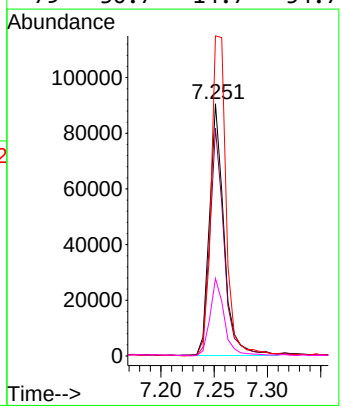
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

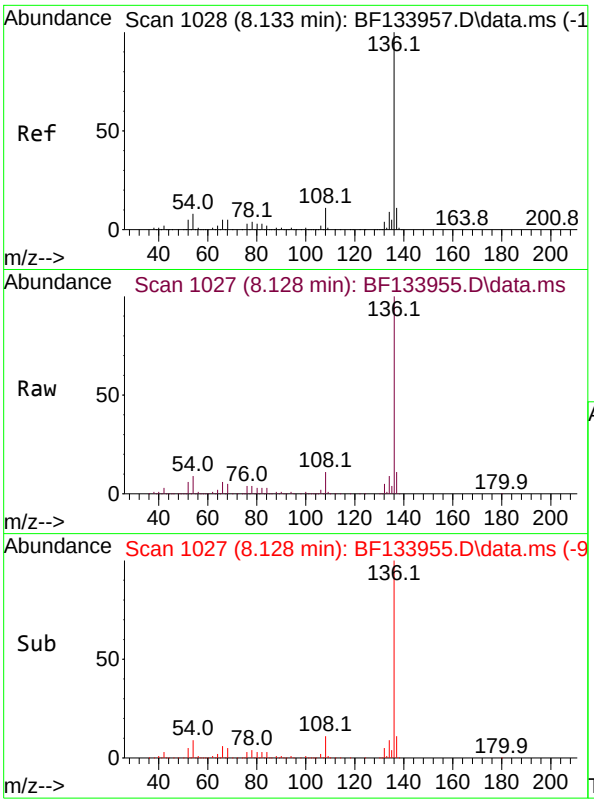


#20
3+4-Methylphenols
Concen: 11.263 ng
RT: 7.251 min Scan# 878
Delta R.T. -0.012 min
Lab File: BF133955.D
Acq: 26 Jun 2023 16:27

Tgt Ion:107 Resp: 85405

Ion	Ratio	Lower	Upper
107	100		
108	90.3	73.2	113.2
77	126.9	118.3	158.3
79	30.7	14.7	54.7

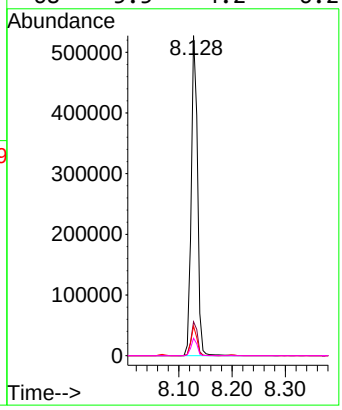




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.128 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF133955.D
Acq: 26 Jun 2023 16:27

Tgt Ion:136 Resp: 43321

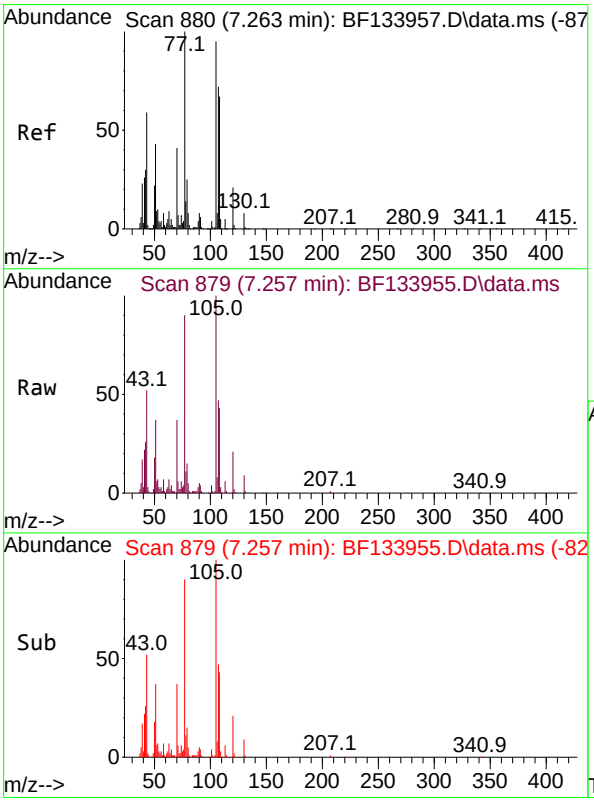
Ion	Ratio	Lower	Upper
136	100		
137	10.6	8.6	12.8
54	9.3	6.5	9.7
68	5.5	4.2	6.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

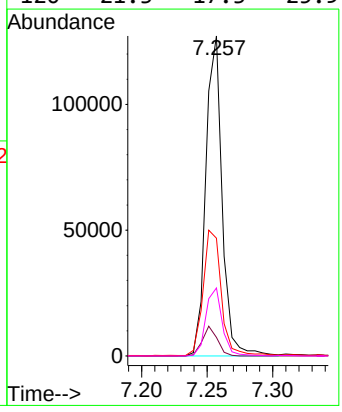
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

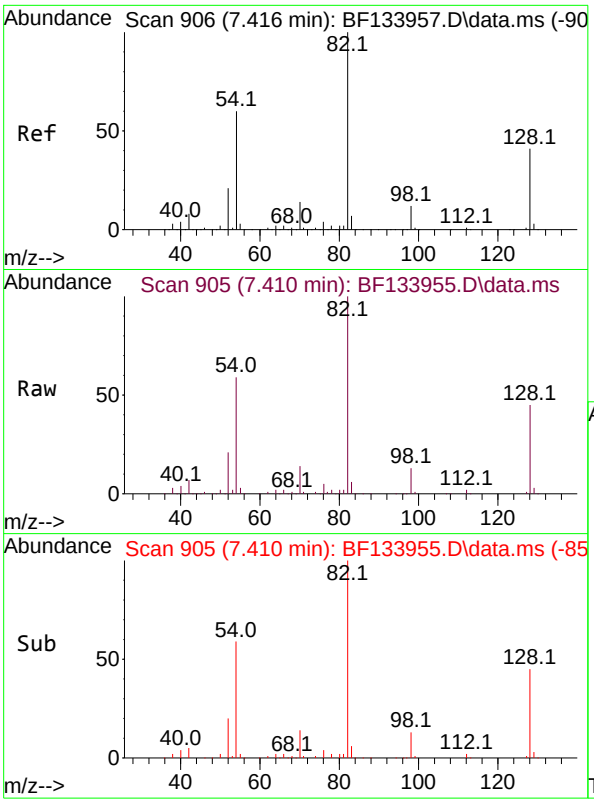


#22
Acetophenone
Concen: 11.187 ng
RT: 7.257 min Scan# 879
Delta R.T. -0.006 min
Lab File: BF133955.D
Acq: 26 Jun 2023 16:27

Tgt Ion:105 Resp: 110216

Ion	Ratio	Lower	Upper
105	100		
71	5.8	5.5	8.3
51	36.8	36.5	54.7
120	21.3	17.3	25.9

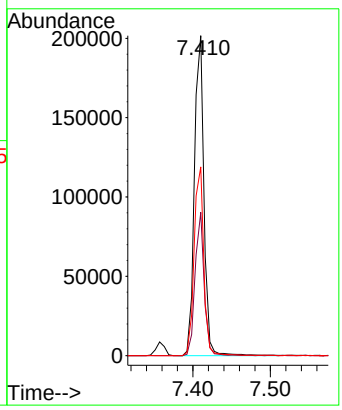




#23
Nitrobenzene-d5
Concen: 21.475 ng
RT: 7.410 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF133955.D
Acq: 26 Jun 2023 16:27

Tgt Ion: 82 Resp: 17258

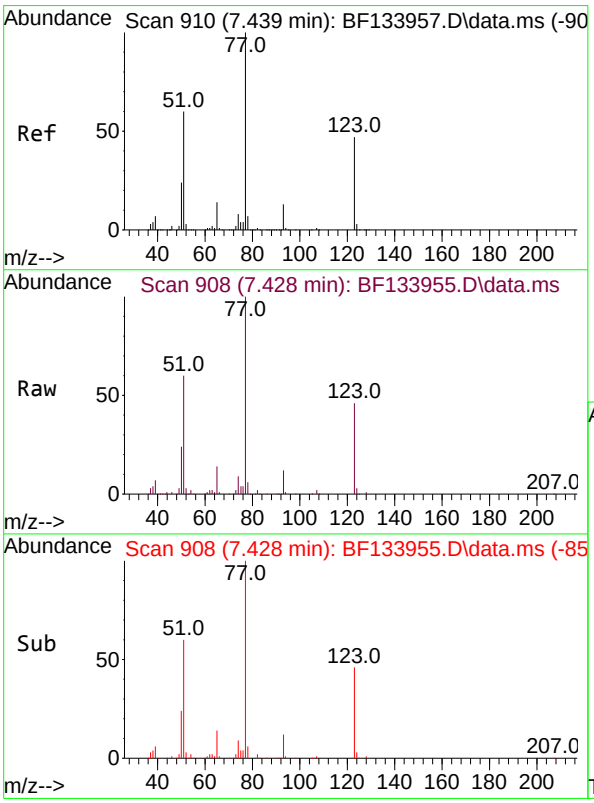
Ion	Ratio	Lower	Upper
82	100		
128	44.8	32.5	48.7
54	59.0	48.2	72.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

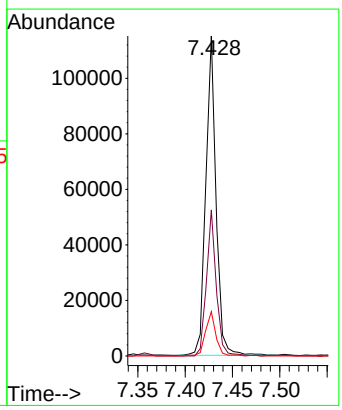
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

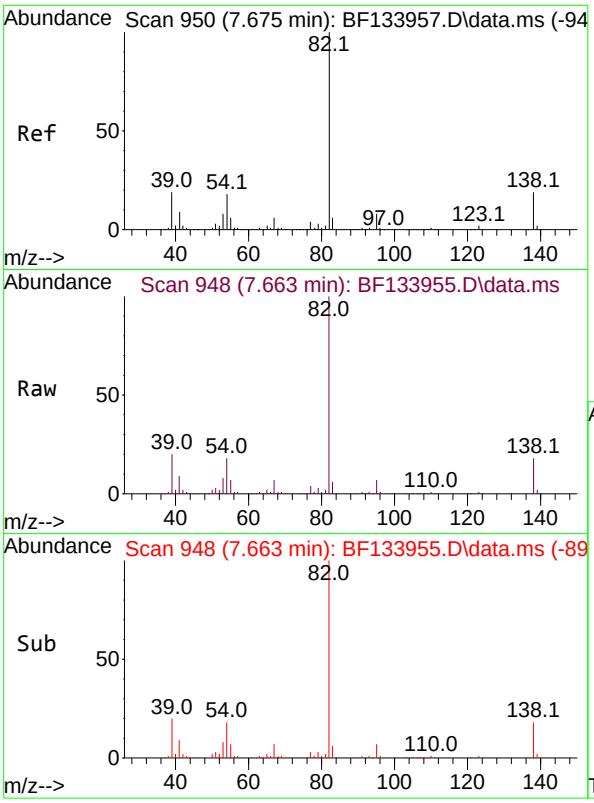


#24
Nitrobenzene
Concen: 10.672 ng
RT: 7.428 min Scan# 908
Delta R.T. -0.012 min
Lab File: BF133955.D
Acq: 26 Jun 2023 16:27

Tgt Ion: 77 Resp: 86666

Ion	Ratio	Lower	Upper
77	100		
123	45.6	37.8	56.6
65	13.8	11.3	16.9





#25
Isophorone
Concen: 10.609 ng
RT: 7.663 min Scan# 94
Delta R.T. -0.012 min
Lab File: BF133955.D
Acq: 26 Jun 2023 16:27

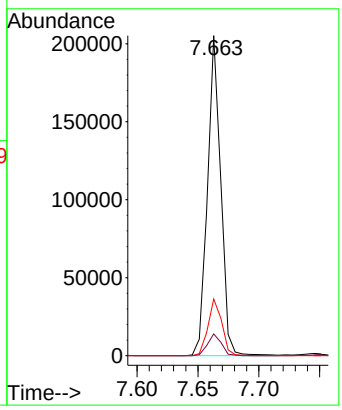
Instrument :
BNA_F
ClientSampleId :
SSTDICC010

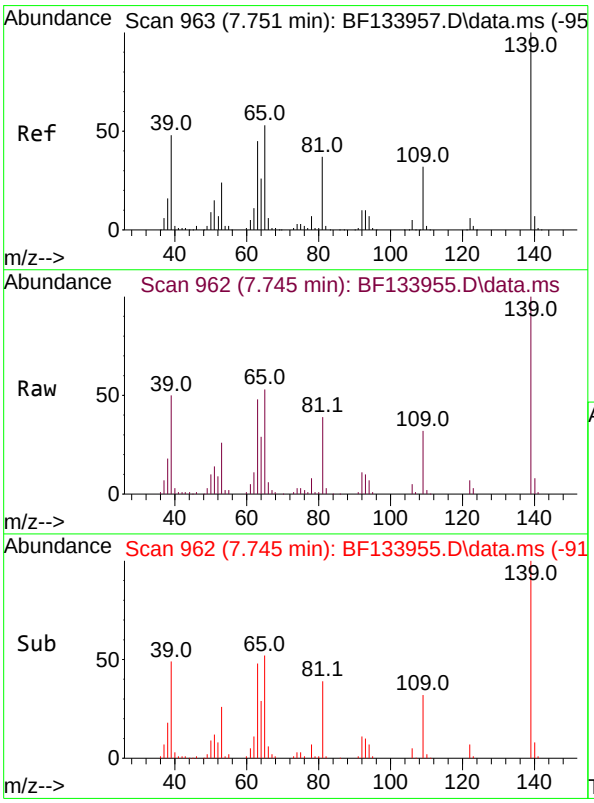
Tgt Ion: 82 Resp: 15495

Ion	Ratio	Lower	Upper
82	100		
95	6.8	6.1	9.1
138	17.7	15.2	22.8

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

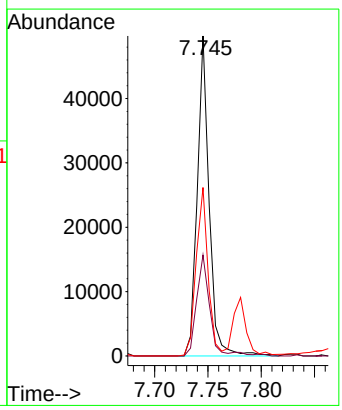


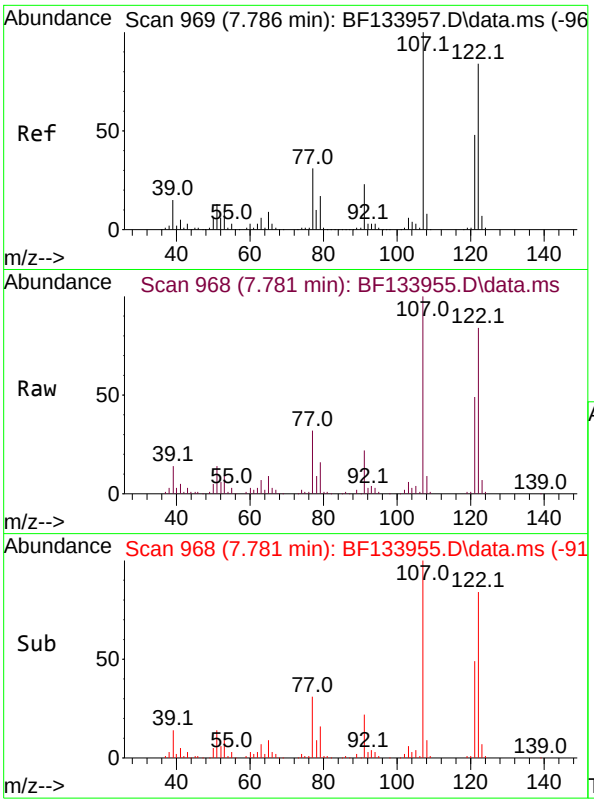


#26
2-Nitrophenol
Concen: 9.926 ng
RT: 7.745 min Scan# 962
Delta R.T. -0.006 min
Lab File: BF133955.D
Acq: 26 Jun 2023 16:27

Tgt Ion:139 Resp: 38671

Ion	Ratio	Lower	Upper
139	100		
109	31.6	25.8	38.8
65	52.6	42.4	63.6

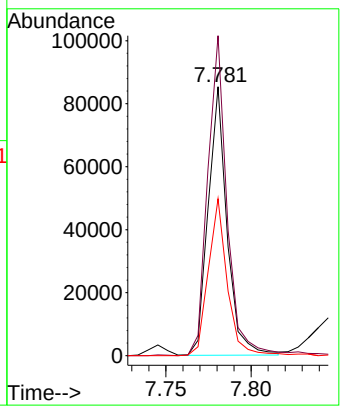




#27
2,4-Dimethylphenol
Concen: 10.630 ng
RT: 7.781 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF133955.D
Acq: 26 Jun 2023 16:27

Tgt Ion:122 Resp: 6555

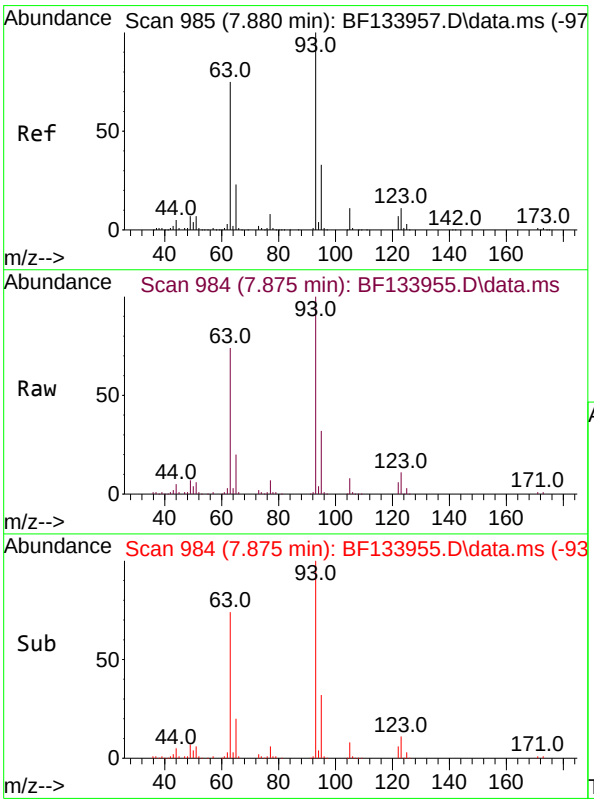
Ion	Ratio	Lower	Upper
122	100		
107	119.0	95.5	143.3
121	58.3	45.5	68.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

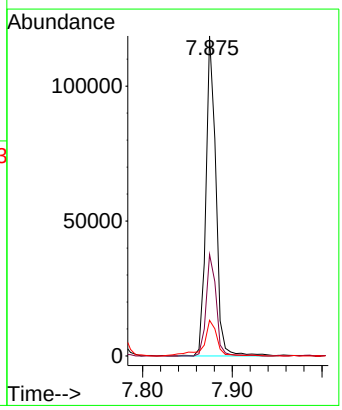
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

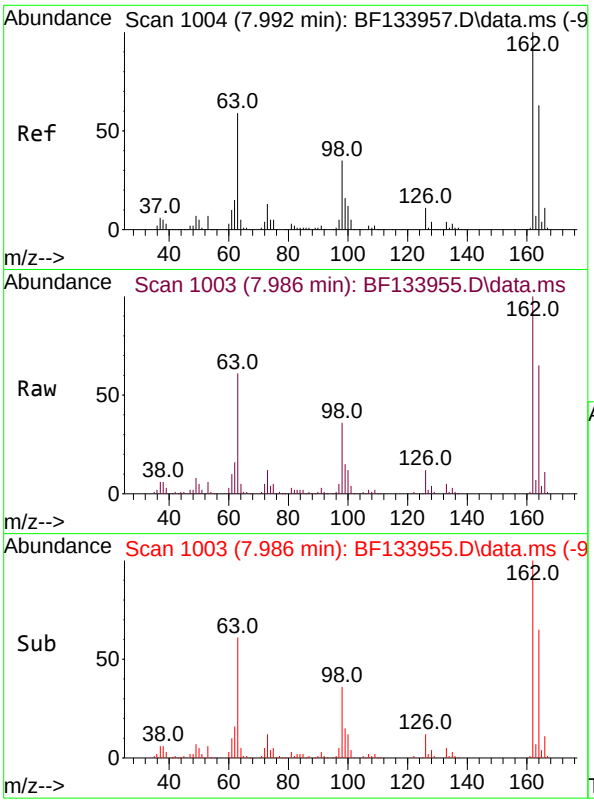


#28
bis(2-Chloroethoxy)methane
Concen: 10.805 ng
RT: 7.875 min Scan# 984
Delta R.T. -0.006 min
Lab File: BF133955.D
Acq: 26 Jun 2023 16:27

Tgt Ion: 93 Resp: 91385

Ion	Ratio	Lower	Upper
93	100		
95	31.8	26.5	39.7
123	11.1	9.1	13.7

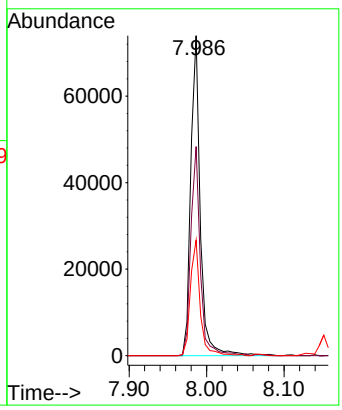




#29
2,4-Dichlorophenol
Concen: 10.348 ng
RT: 7.986 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF133955.D
Acq: 26 Jun 2023 16:27

Tgt Ion:162 Resp: 6328

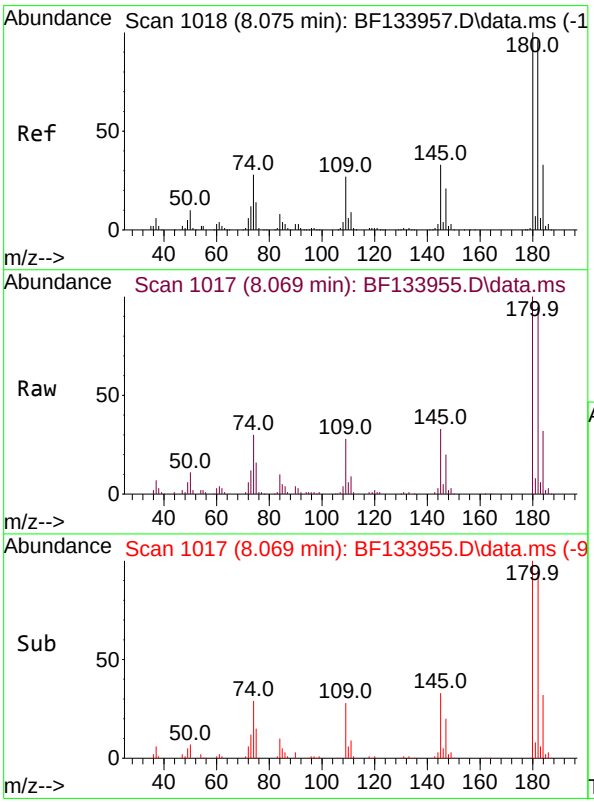
Ion	Ratio	Lower	Upper
162	100		
164	65.4	43.2	83.2
98	36.1	14.9	54.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

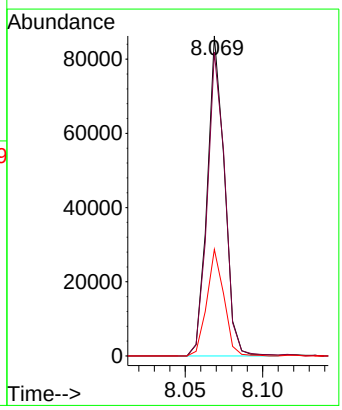
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

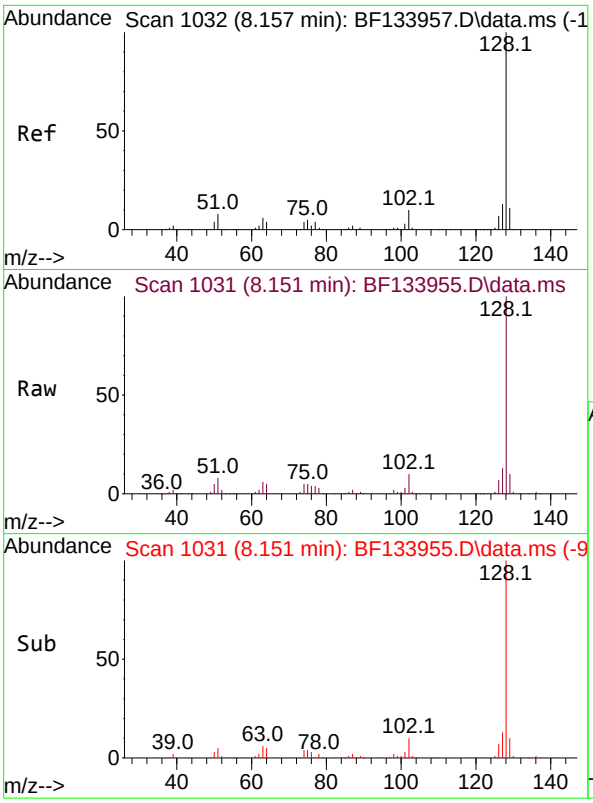


#30
1,2,4-Trichlorobenzene
Concen: 10.570 ng
RT: 8.069 min Scan# 1017
Delta R.T. -0.006 min
Lab File: BF133955.D
Acq: 26 Jun 2023 16:27

Tgt Ion:180 Resp: 66698

Ion	Ratio	Lower	Upper
180	100		
182	94.9	77.1	115.7
145	33.3	26.0	39.0

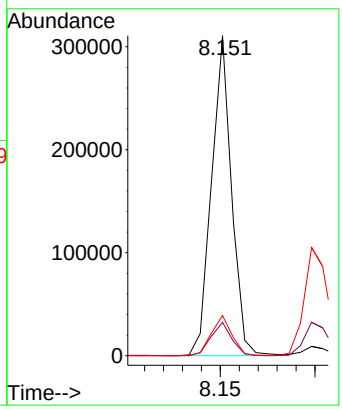




#31
Naphthalene
Concen: 10.953 ng
RT: 8.151 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF133955.D
Acq: 26 Jun 2023 16:27

Tgt Ion:128 Resp: 22919

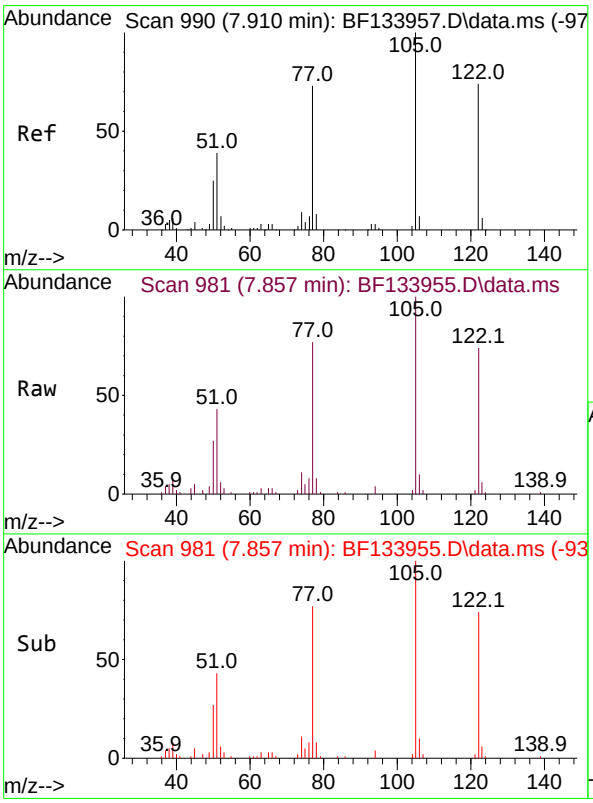
Ion	Ratio	Lower	Upper
128	100		
129	10.4	8.7	13.1
127	12.6	10.6	15.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

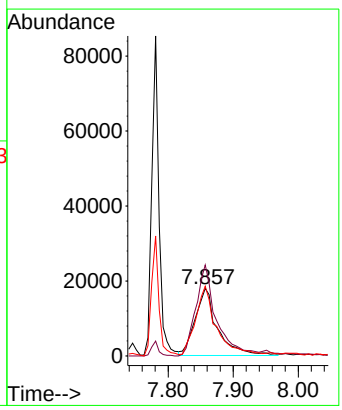
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

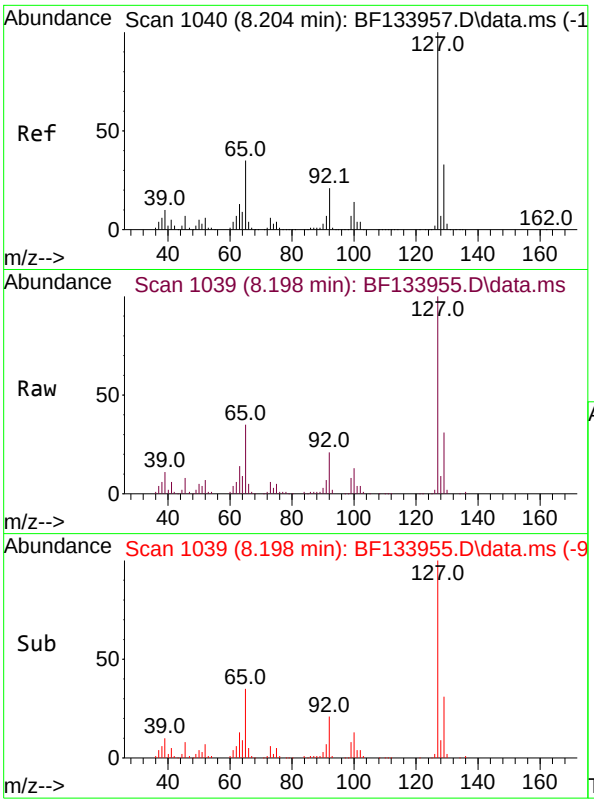


#32
Benzoic acid
Concen: 9.448 ng m
RT: 7.857 min Scan# 981
Delta R.T. -0.053 min
Lab File: BF133955.D
Acq: 26 Jun 2023 16:27

Tgt Ion:122 Resp: 42813

Ion	Ratio	Lower	Upper
122	100		
105	134.8	109.7	149.7
77	103.3	76.0	116.0

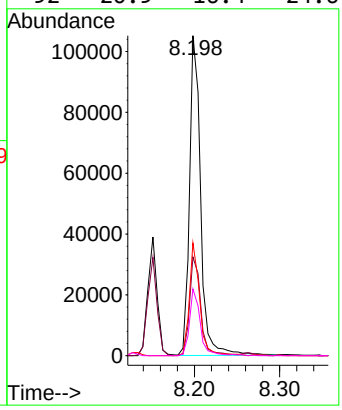




#33
4-Chloroaniline
Concen: 10.661 ng
RT: 8.198 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF133955.D
Acq: 26 Jun 2023 16:27

Tgt Ion:127 Resp: 9543

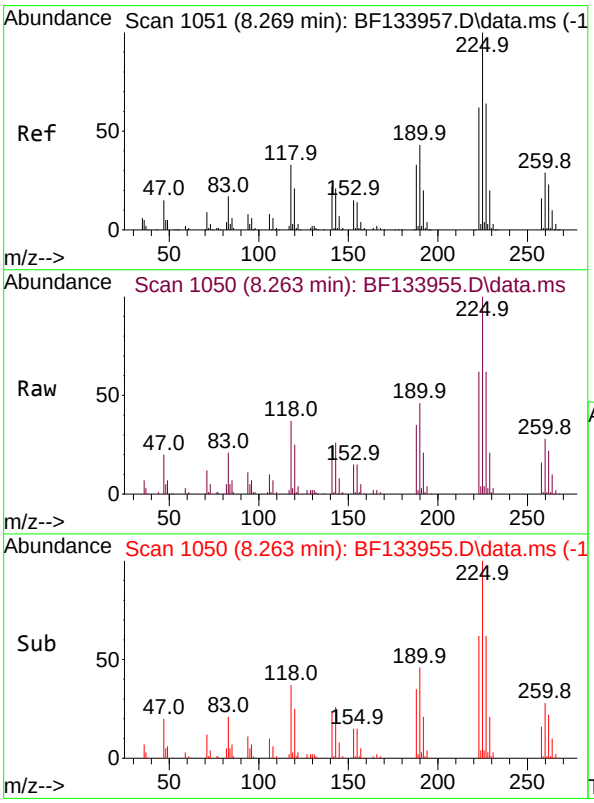
Ion	Ratio	Lower	Upper
127	100		
129	30.8	26.4	39.6
65	35.3	27.8	41.8
92	20.9	16.4	24.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

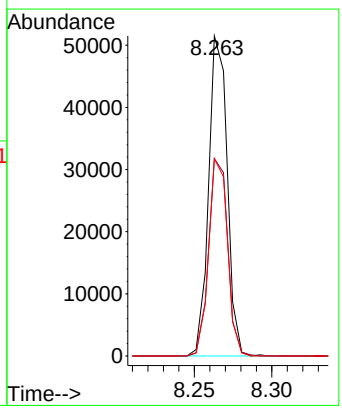
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

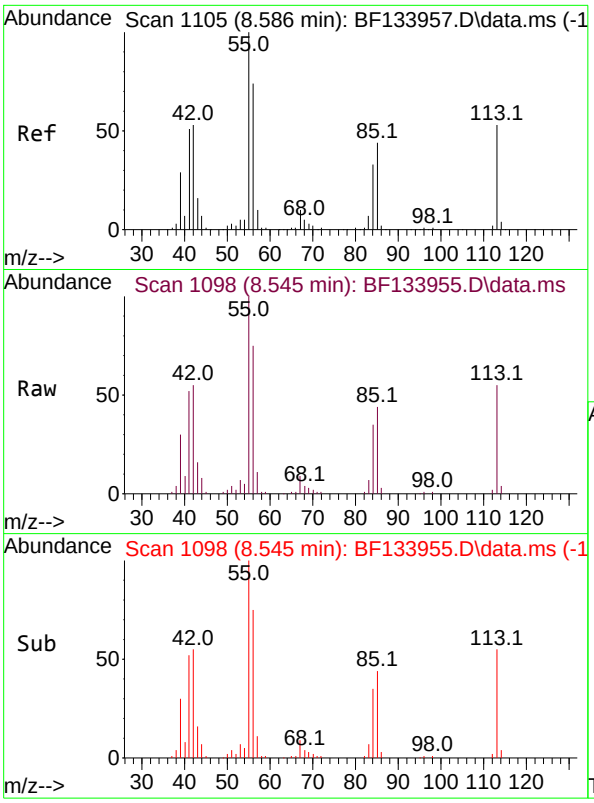


#34
Hexachlorobutadiene
Concen: 10.759 ng
RT: 8.263 min Scan# 1050
Delta R.T. -0.006 min
Lab File: BF133955.D
Acq: 26 Jun 2023 16:27

Tgt Ion:225 Resp: 42823

Ion	Ratio	Lower	Upper
225	100		
223	61.6	49.8	74.8
227	61.7	51.0	76.4

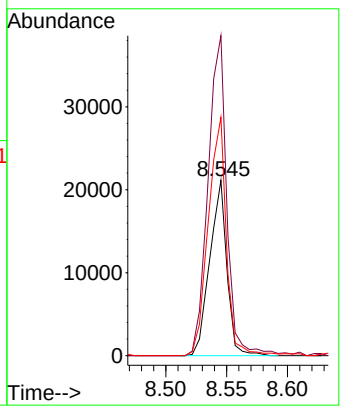




#35
Caprolactam
Concen: 10.289 ng
RT: 8.545 min Scan# 1
Delta R.T. -0.041 min
Lab File: BF133955.D
Acq: 26 Jun 2023 16:27

Tgt Ion:113 Resp: 2071

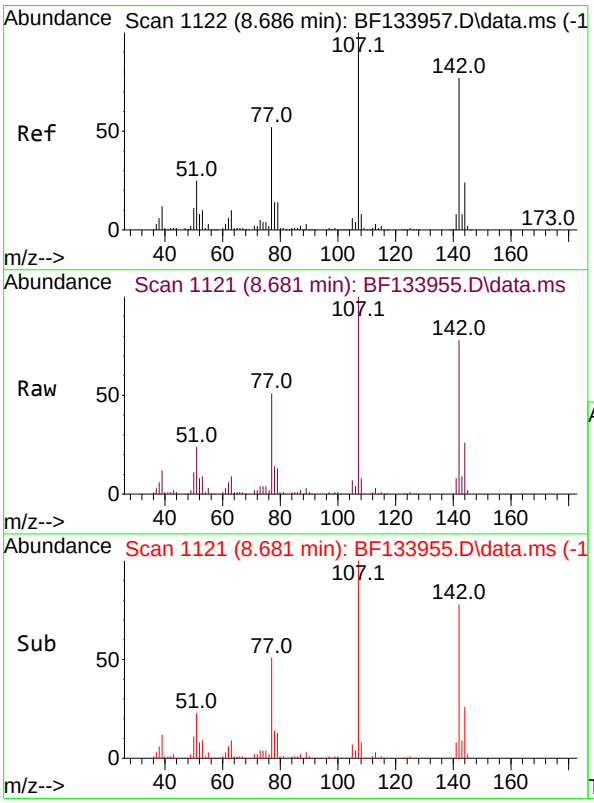
Ion	Ratio	Lower	Upper
113	100		
55	182.5	170.2	210.2
56	136.0	121.4	161.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

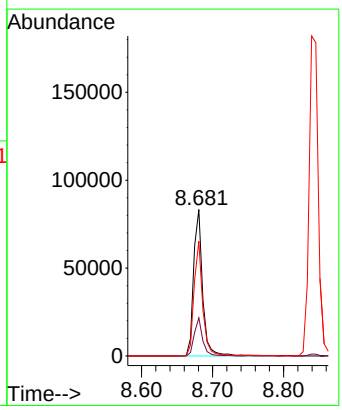
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

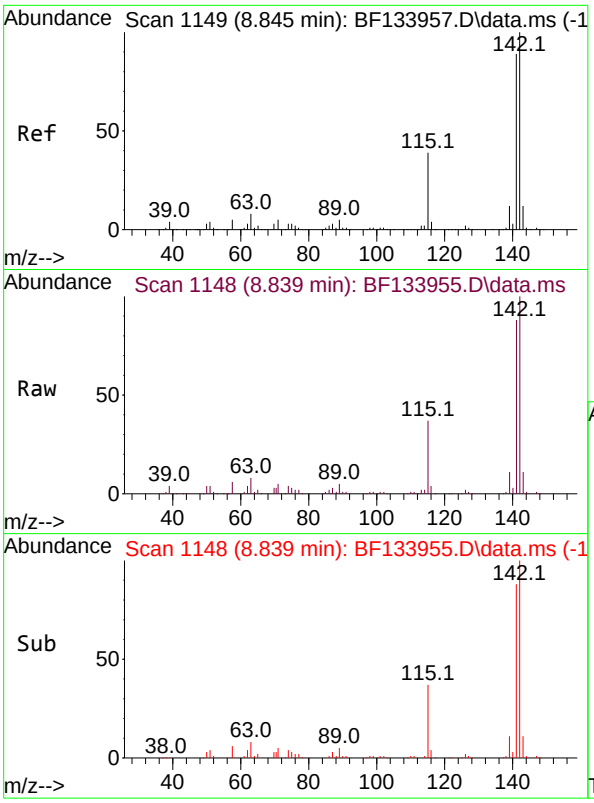


#36
4-Chloro-3-methylphenol
Concen: 10.779 ng
RT: 8.681 min Scan# 1121
Delta R.T. -0.006 min
Lab File: BF133955.D
Acq: 26 Jun 2023 16:27

Tgt Ion:107 Resp: 74047

Ion	Ratio	Lower	Upper
107	100		
144	26.1	19.6	29.4
142	78.5	61.4	92.2

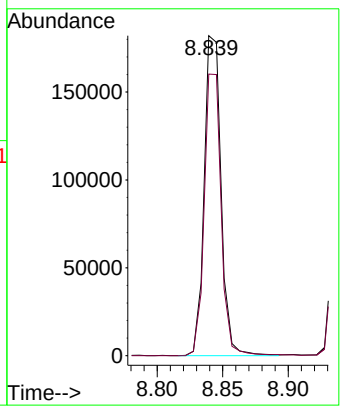




#37
2-Methylnaphthalene
Concen: 11.041 ng
RT: 8.839 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF133955.D
Acq: 26 Jun 2023 16:27

Tgt Ion:142 Resp: 16338

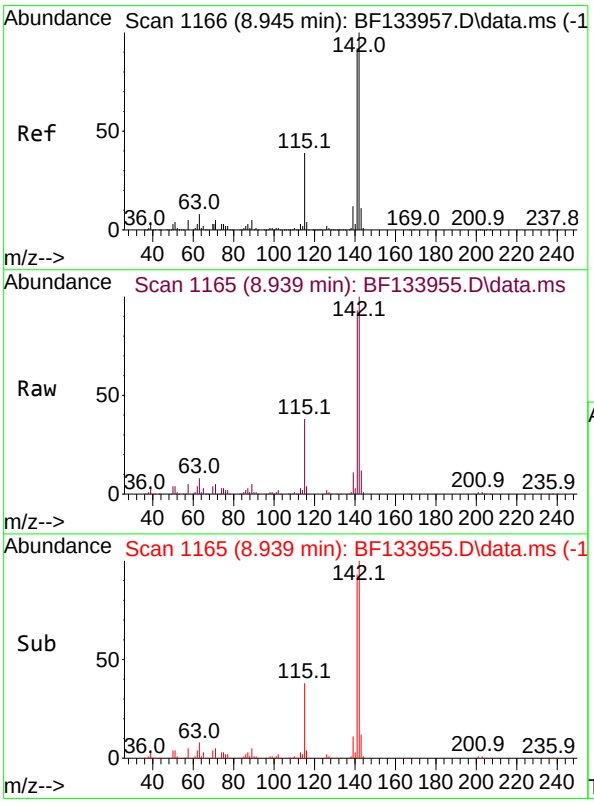
Ion	Ratio	Lower	Upper
142	100		
141	88.0	71.0	106.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

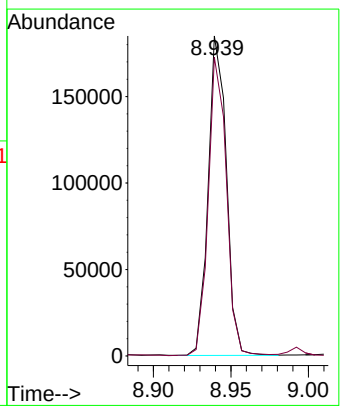
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

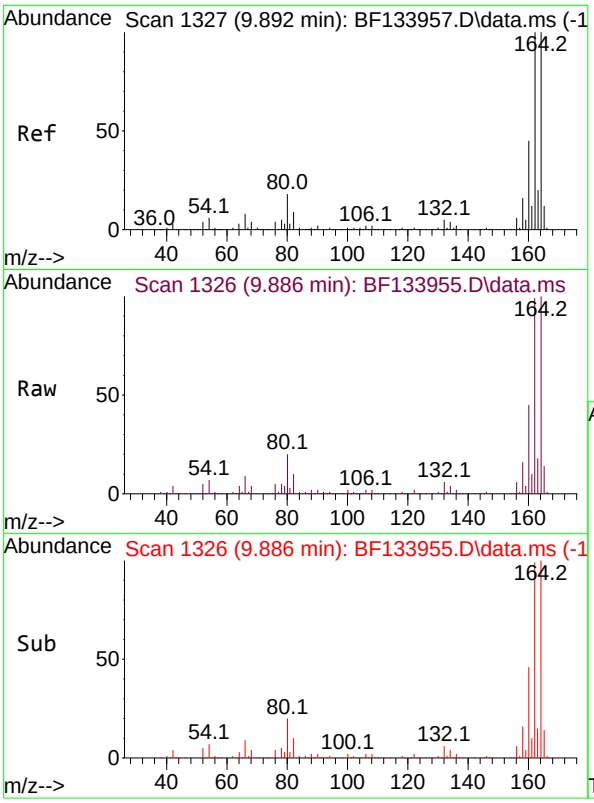


#38
1-Methylnaphthalene
Concen: 10.962 ng
RT: 8.939 min Scan# 1165
Delta R.T. -0.006 min
Lab File: BF133955.D
Acq: 26 Jun 2023 16:27

Tgt Ion:142 Resp: 150805

Ion	Ratio	Lower	Upper
142	100		
141	93.4	73.5	110.3

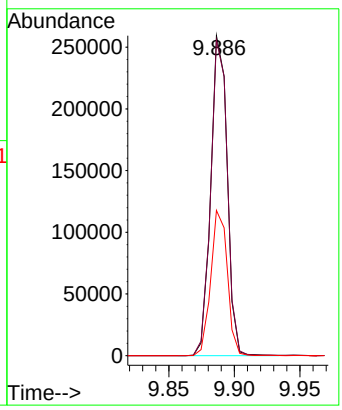




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.886 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF133955.D
Acq: 26 Jun 2023 16:27

Tgt Ion:164 Resp: 22569

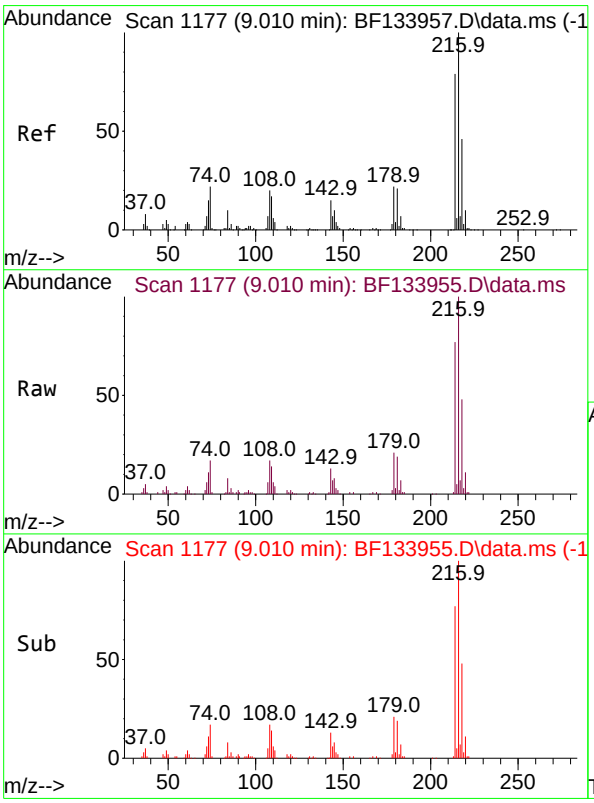
Ion	Ratio	Lower	Upper
164	100		
162	98.7	80.0	120.0
160	45.4	35.9	53.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

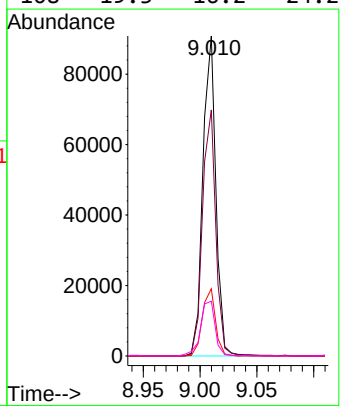
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

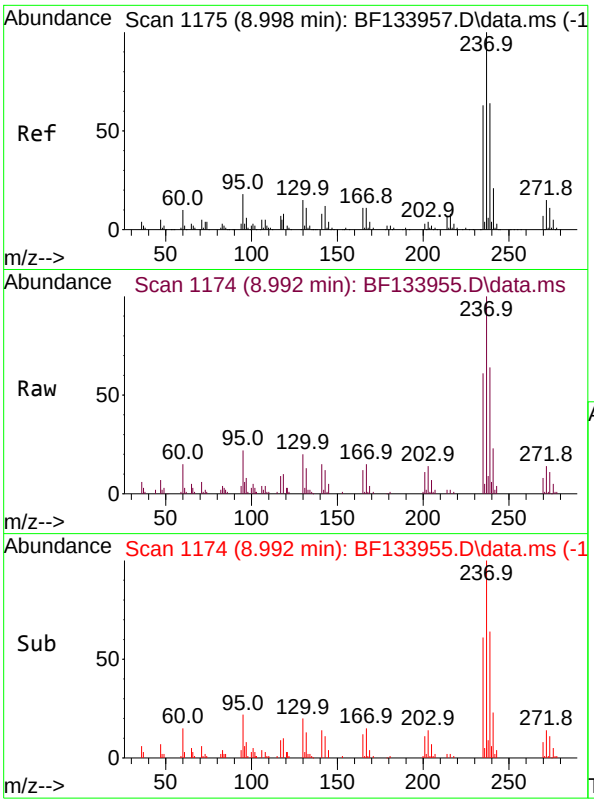


#40
1,2,4,5-Tetrachlorobenzene
Concen: 10.781 ng
RT: 9.010 min Scan# 1177
Delta R.T. 0.000 min
Lab File: BF133955.D
Acq: 26 Jun 2023 16:27

Tgt Ion:216 Resp: 72086

Ion	Ratio	Lower	Upper
216	100		
214	78.6	64.1	96.1
179	21.3	17.3	25.9
108	19.3	16.2	24.2

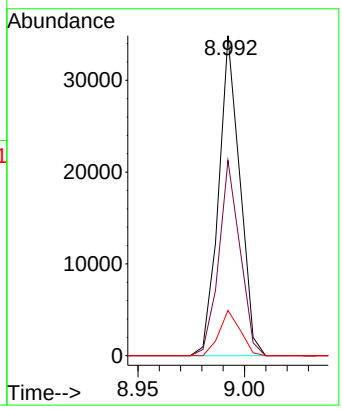




#41
Hexachlorocyclopentadiene
Concen: 7.626 ng
RT: 8.992 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF133955.D
Acq: 26 Jun 2023 16:27

Tgt Ion:237 Resp: 2419

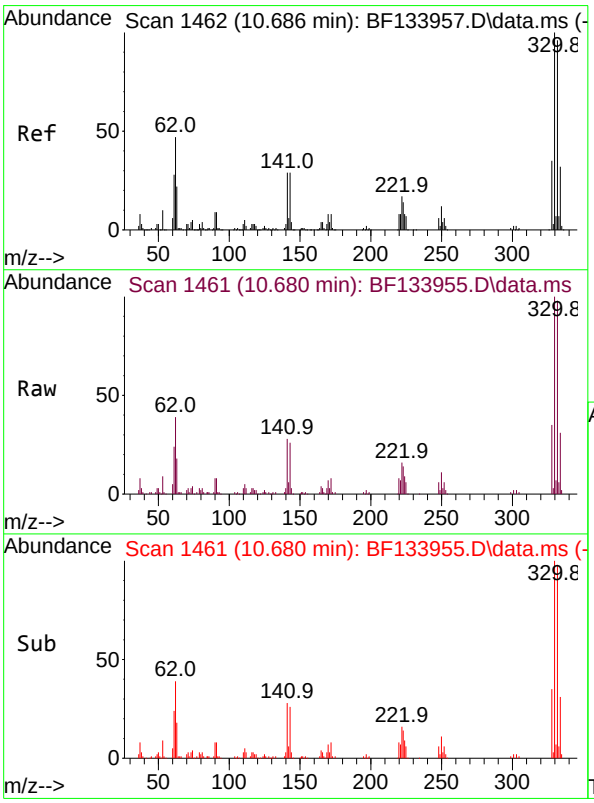
Ion	Ratio	Lower	Upper
237	100		
235	61.1	42.8	82.8
272	14.2	0.0	34.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

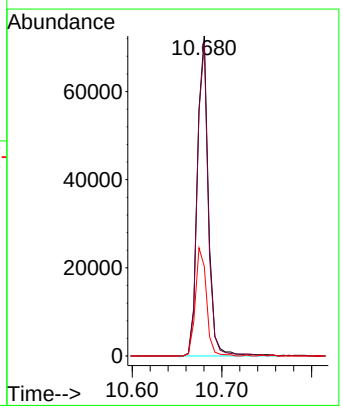
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

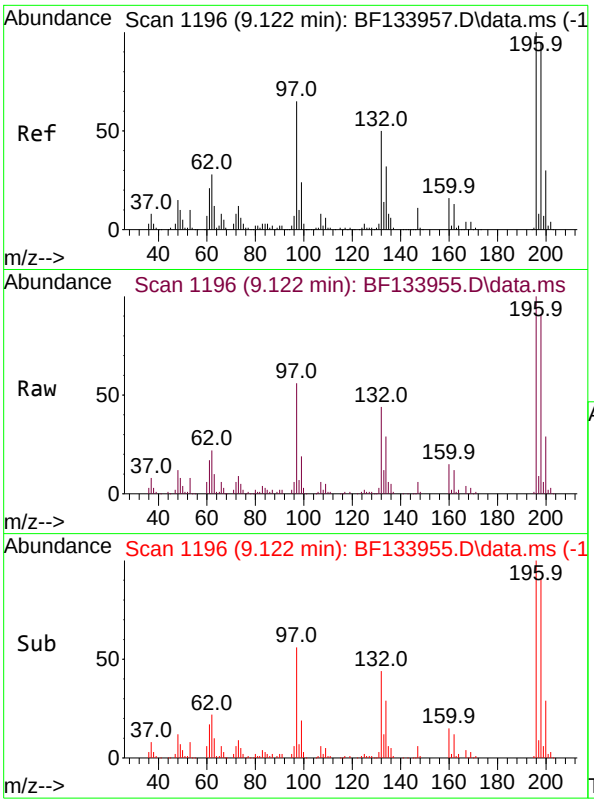


#42
2,4,6-Tribromophenol
Concen: 21.872 ng
RT: 10.680 min Scan# 1461
Delta R.T. -0.006 min
Lab File: BF133955.D
Acq: 26 Jun 2023 16:27

Tgt Ion:330 Resp: 61894

Ion	Ratio	Lower	Upper
330	100		
332	96.6	77.0	115.6
141	33.8	26.3	39.5

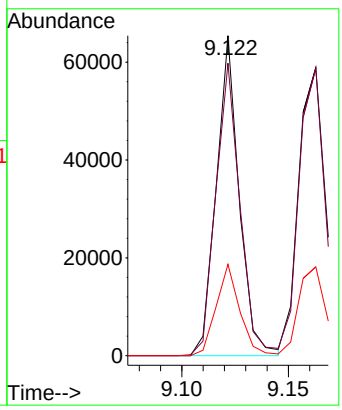




#43
2,4,6-Trichlorophenol
Concen: 10.731 ng
RT: 9.122 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF133955.D
Acq: 26 Jun 2023 16:27

Tgt Ion:196 Resp: 4884

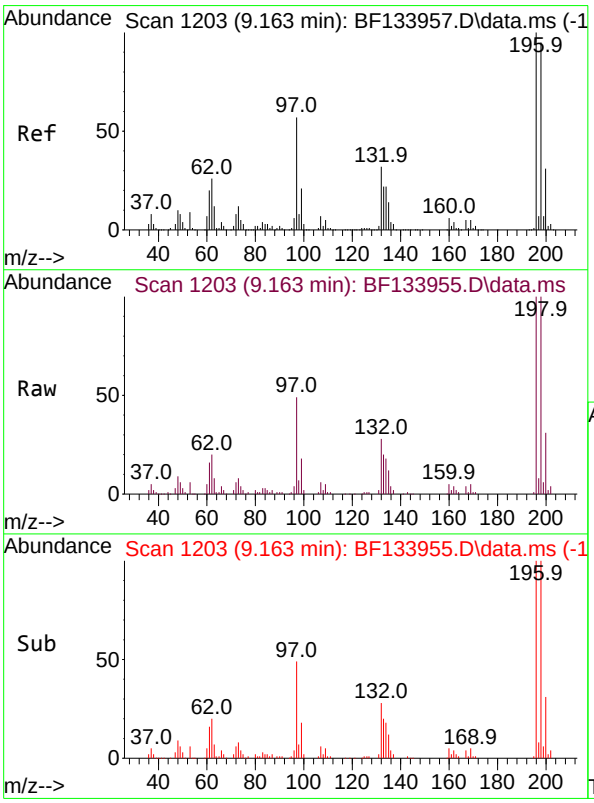
Ion	Ratio	Lower	Upper
196	100		
198	91.4	75.6	113.4
200	28.6	24.4	36.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

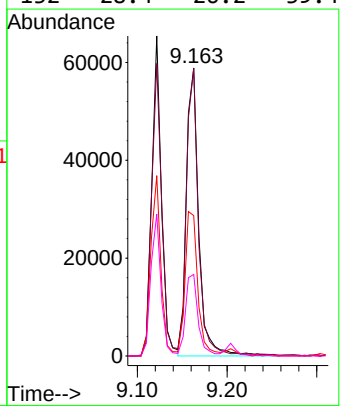
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

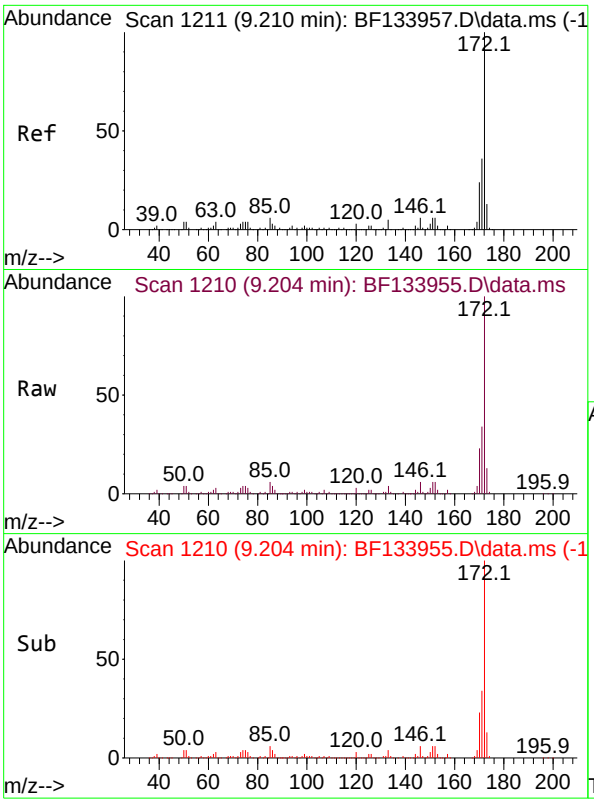


#44
2,4,5-Trichlorophenol
Concen: 10.599 ng
RT: 9.163 min Scan# 1203
Delta R.T. 0.000 min
Lab File: BF133955.D
Acq: 26 Jun 2023 16:27

Tgt Ion:196 Resp: 56748

Ion	Ratio	Lower	Upper
196	100		
198	99.8	75.7	113.5
97	48.7	45.8	68.6
132	28.4	26.2	39.4

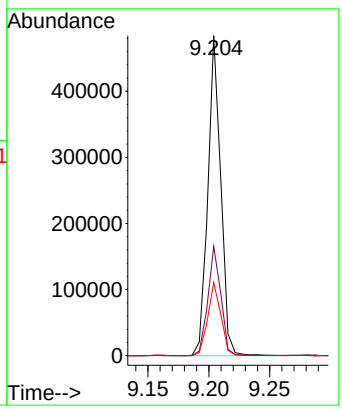




#45
2-Fluorobiphenyl
Concen: 22.888 ng
RT: 9.204 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF133955.D
Acq: 26 Jun 2023 16:27

Tgt Ion:172 Resp: 35529

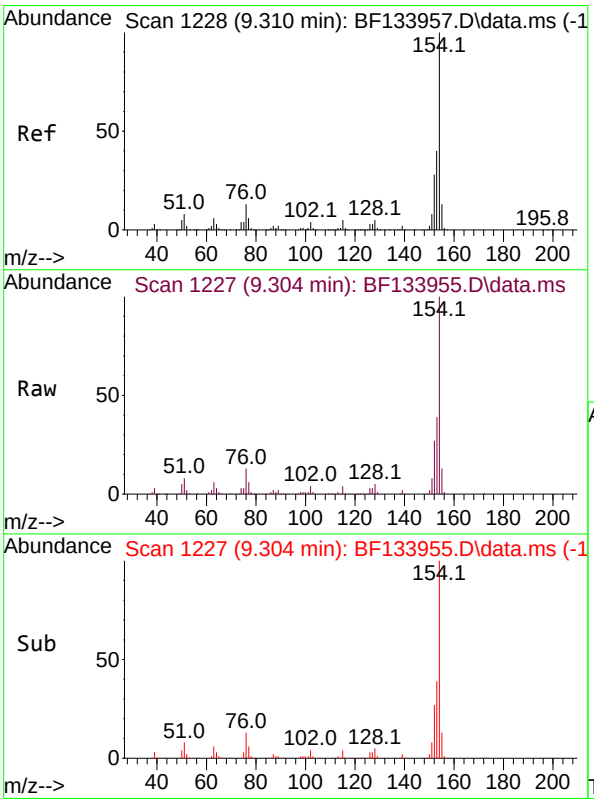
Ion	Ratio	Lower	Upper
172	100		
171	34.2	28.6	43.0
170	22.9	19.4	29.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

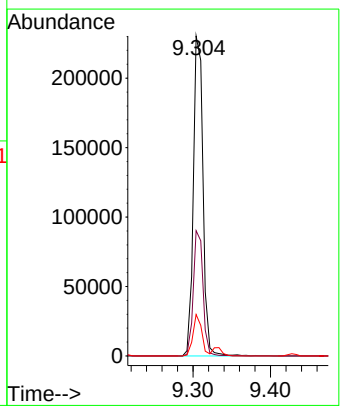
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

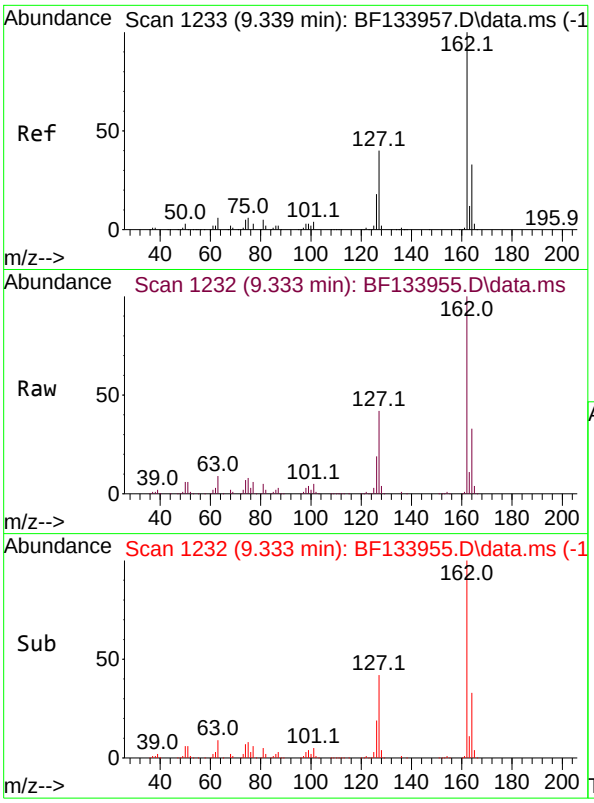


#46
1,1'-Biphenyl
Concen: 11.016 ng
RT: 9.304 min Scan# 1227
Delta R.T. -0.006 min
Lab File: BF133955.D
Acq: 26 Jun 2023 16:27

Tgt Ion:154 Resp: 199440

Ion	Ratio	Lower	Upper
154	100		
153	39.1	19.8	59.8
76	12.9	0.0	32.9

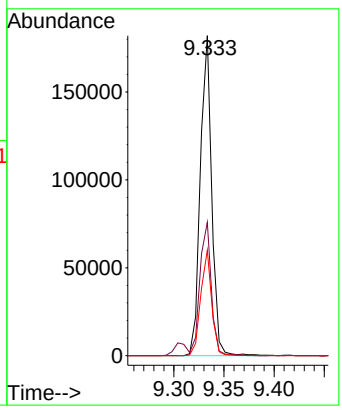




#47
2-Chloronaphthalene
Concen: 10.944 ng
RT: 9.333 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF133955.D
Acq: 26 Jun 2023 16:27

Tgt Ion:162 Resp: 14497

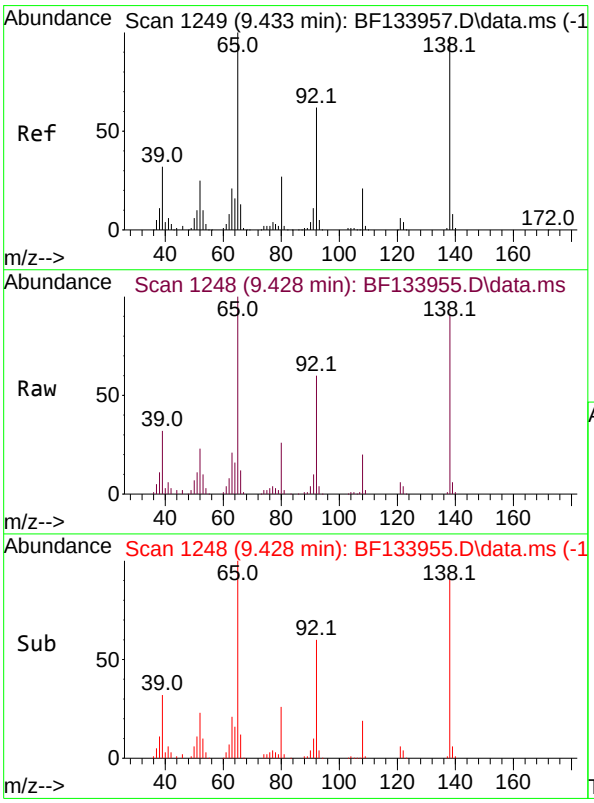
Ion	Ratio	Lower	Upper
162	100		
127	41.7	32.9	49.3
164	33.0	26.1	39.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

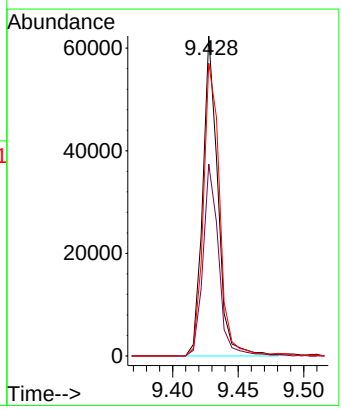
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

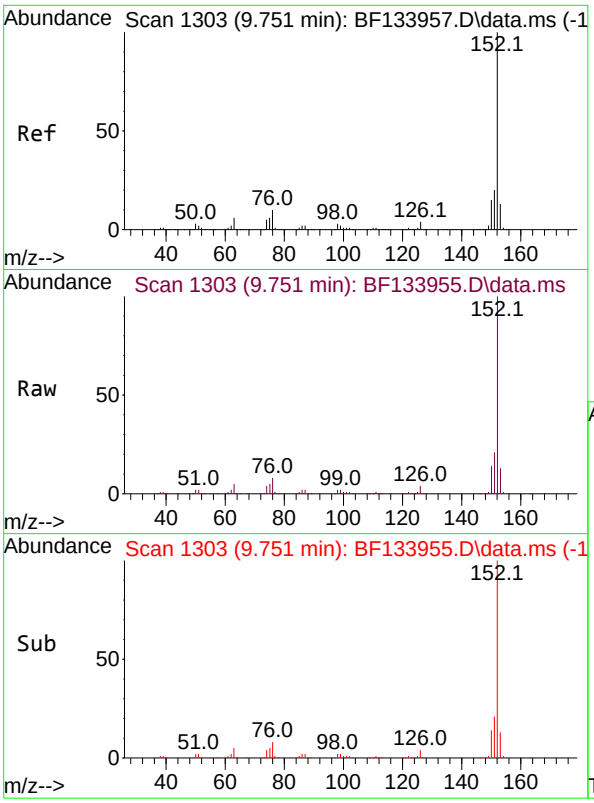


#48
2-Nitroaniline
Concen: 10.372 ng
RT: 9.428 min Scan# 1248
Delta R.T. -0.005 min
Lab File: BF133955.D
Acq: 26 Jun 2023 16:27

Tgt Ion: 65 Resp: 50073

Ion	Ratio	Lower	Upper
65	100		
92	60.0	49.5	74.3
138	91.5	78.0	117.0

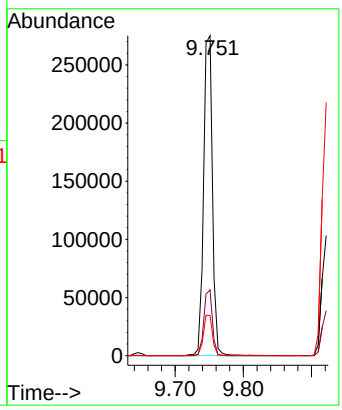




#49
Acenaphthylene
Concen: 10.999 ng
RT: 9.751 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF133955.D
Acq: 26 Jun 2023 16:27

Tgt Ion:152 Resp: 24889

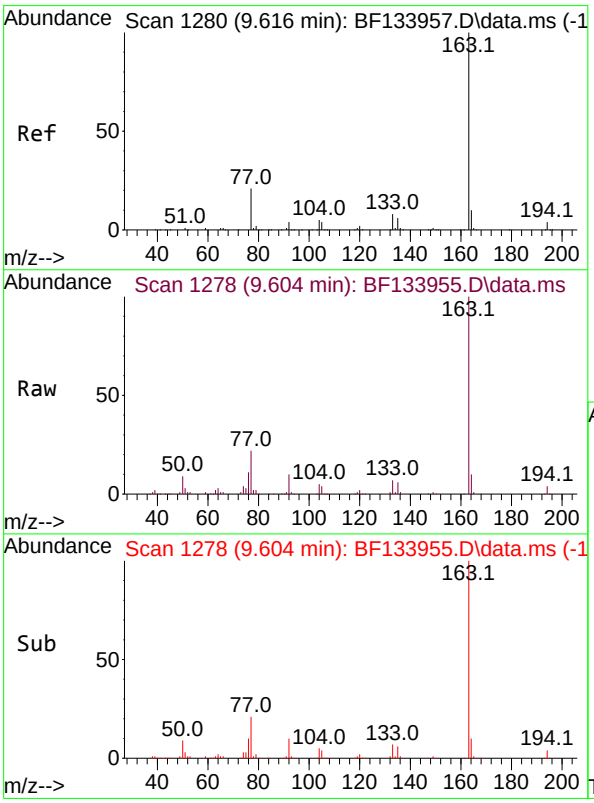
Ion	Ratio	Lower	Upper
152	100		
151	20.6	16.2	24.2
153	12.5	10.8	16.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

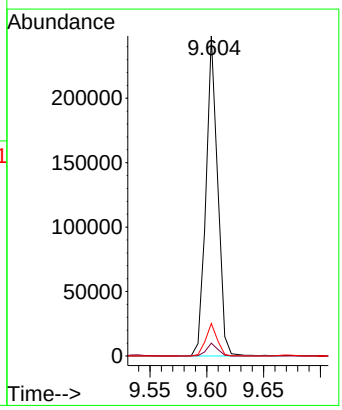
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

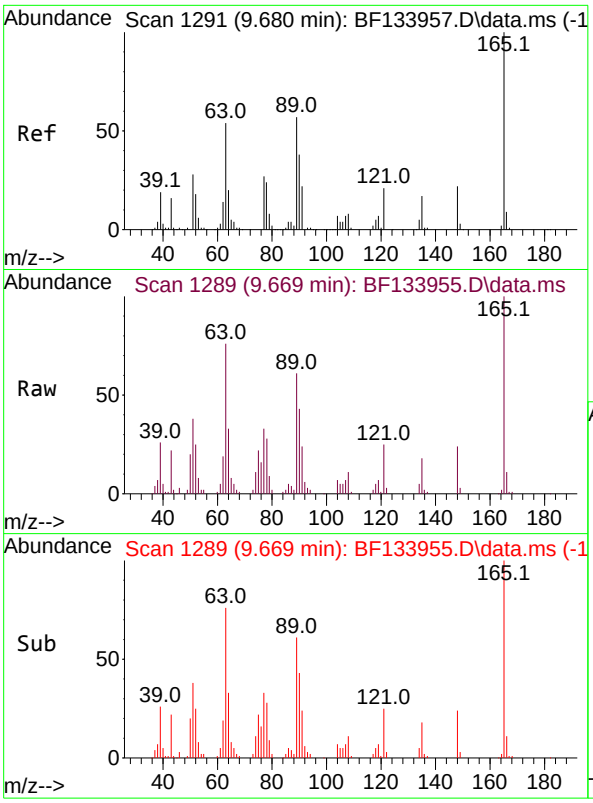


#50
Dimethylphthalate
Concen: 10.889 ng
RT: 9.604 min Scan# 1278
Delta R.T. -0.012 min
Lab File: BF133955.D
Acq: 26 Jun 2023 16:27

Tgt Ion:163 Resp: 178405

Ion	Ratio	Lower	Upper
163	100		
194	4.0	3.0	4.6
164	10.1	8.2	12.2

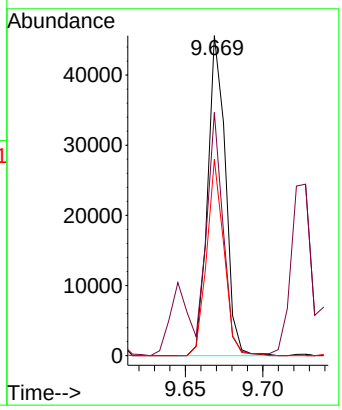




#51
2,6-Dinitrotoluene
Concen: 10.319 ng
RT: 9.669 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF133955.D
Acq: 26 Jun 2023 16:27

Tgt Ion:165 Resp: 3641

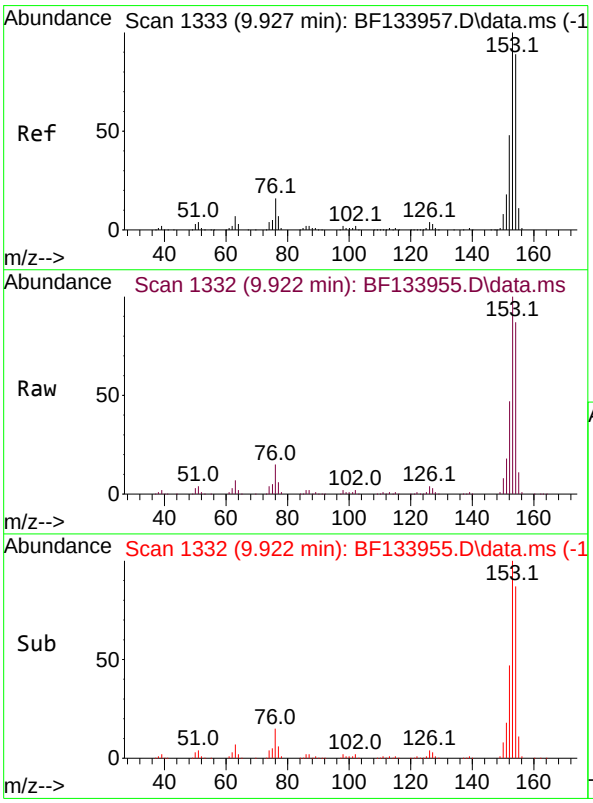
Ion	Ratio	Lower	Upper
165	100		
63	76.0	48.5	72.7
89	61.3	45.5	68.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

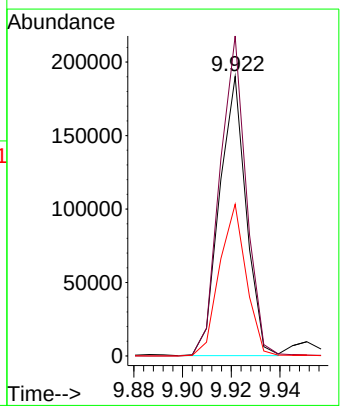
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

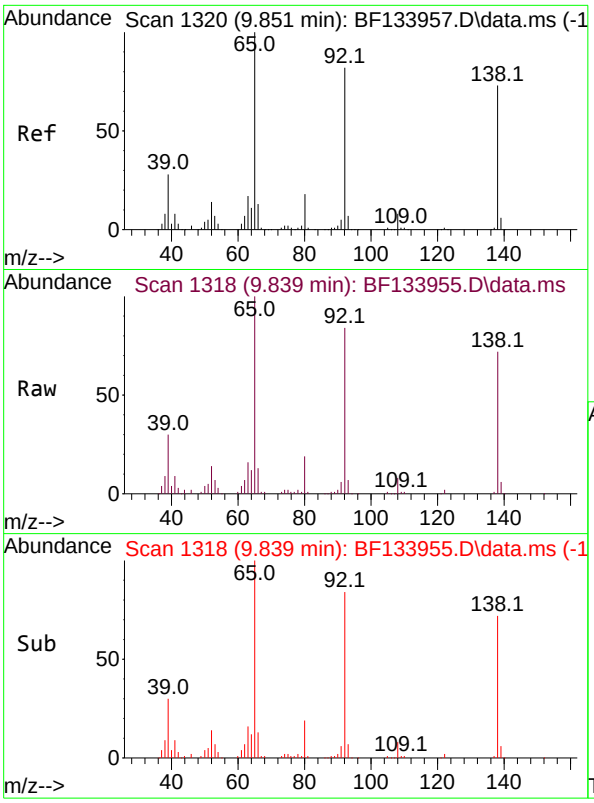


#52
Acenaphthene
Concen: 10.994 ng
RT: 9.922 min Scan# 1332
Delta R.T. -0.005 min
Lab File: BF133955.D
Acq: 26 Jun 2023 16:27

Tgt Ion:154 Resp: 144359

Ion	Ratio	Lower	Upper
154	100		
153	114.5	89.4	134.2
152	54.3	42.8	64.2

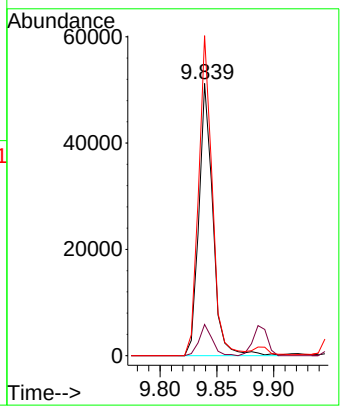




#53
3-Nitroaniline
Concen: 10.375 ng
RT: 9.839 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF133955.D
Acq: 26 Jun 2023 16:27

Tgt Ion:138 Resp: 4391

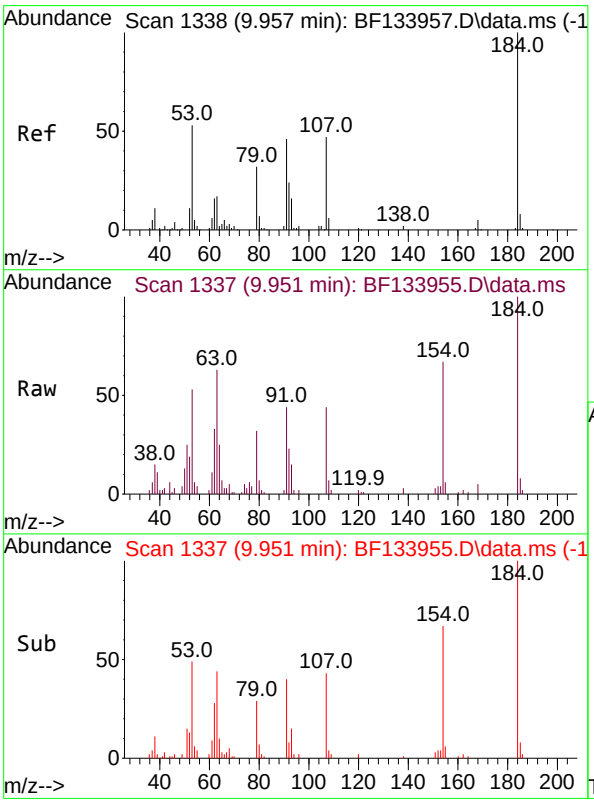
Ion	Ratio	Lower	Upper
138	100		
108	11.4	8.4	12.6
92	117.6	90.1	135.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

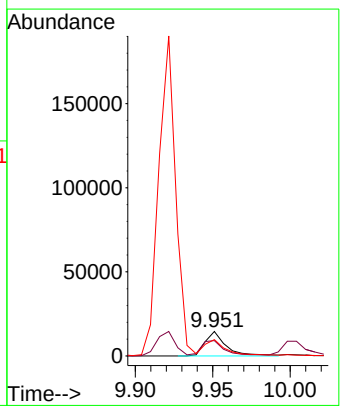
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

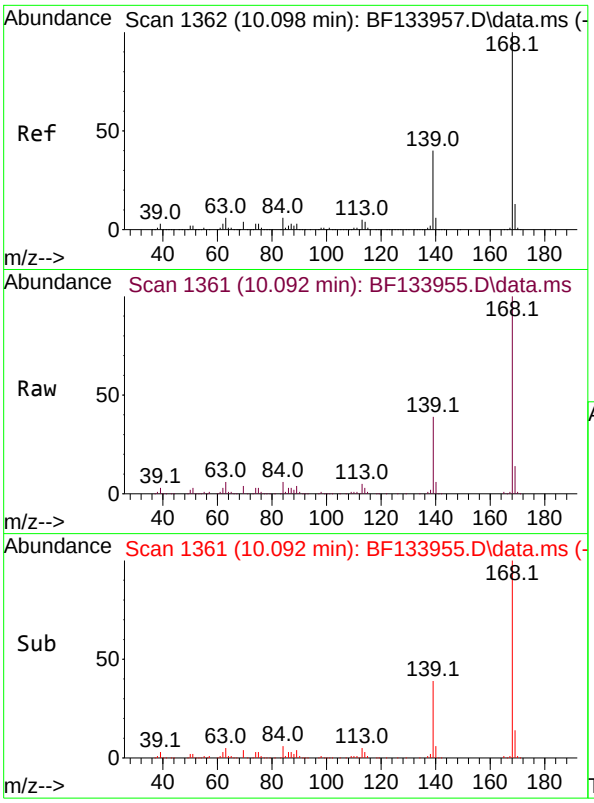


#54
2,4-Dinitrophenol
Concen: 10.291 ng
RT: 9.951 min Scan# 1337
Delta R.T. -0.006 min
Lab File: BF133955.D
Acq: 26 Jun 2023 16:27

Tgt Ion:184 Resp: 13763

Ion	Ratio	Lower	Upper
184	100		
63	62.9	56.9	85.3
154	66.5	55.4	83.0

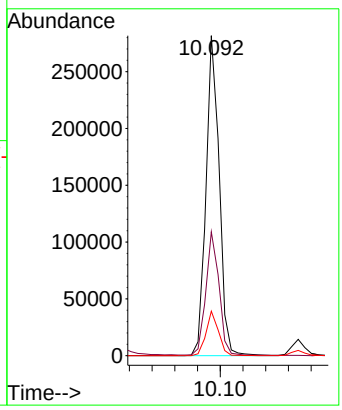




#55
Dibenzofuran
Concen: 11.084 ng
RT: 10.092 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF133955.D
Acq: 26 Jun 2023 16:27

Tgt Ion:168 Resp: 22743

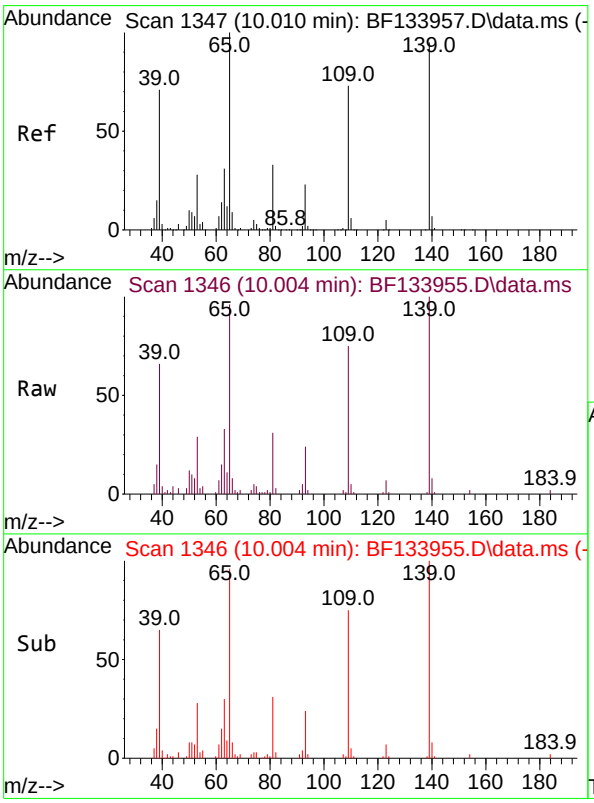
Ion	Ratio	Lower	Upper
168	100		
139	38.7	32.0	48.0
169	13.9	10.6	16.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

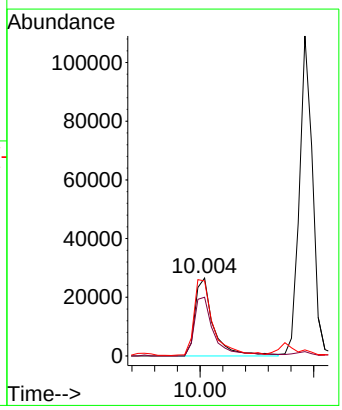
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

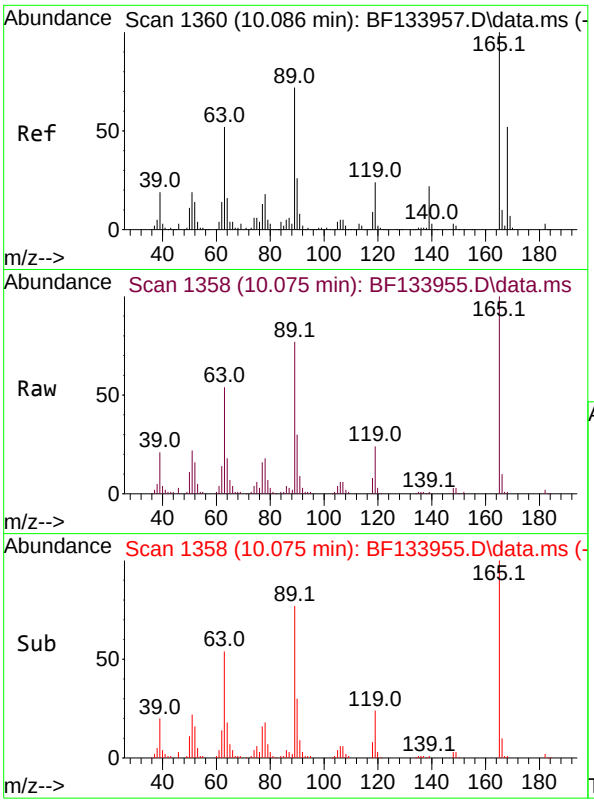


#56
4-Nitrophenol
Concen: 9.998 ng
RT: 10.004 min Scan# 1346
Delta R.T. -0.006 min
Lab File: BF133955.D
Acq: 26 Jun 2023 16:27

Tgt Ion:139 Resp: 29605

Ion	Ratio	Lower	Upper
139	100		
109	75.2	56.8	96.8
65	96.2	86.1	126.1

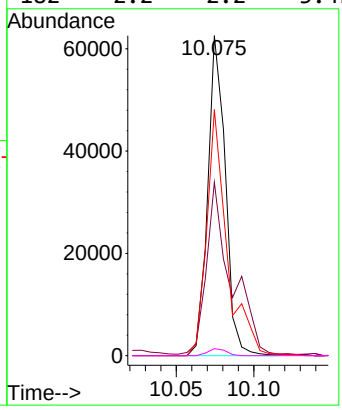




#57
2,4-Dinitrotoluene
Concen: 10.630 ng
RT: 10.075 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF133955.D
Acq: 26 Jun 2023 16:27

Tgt Ion:165 Resp: 4953

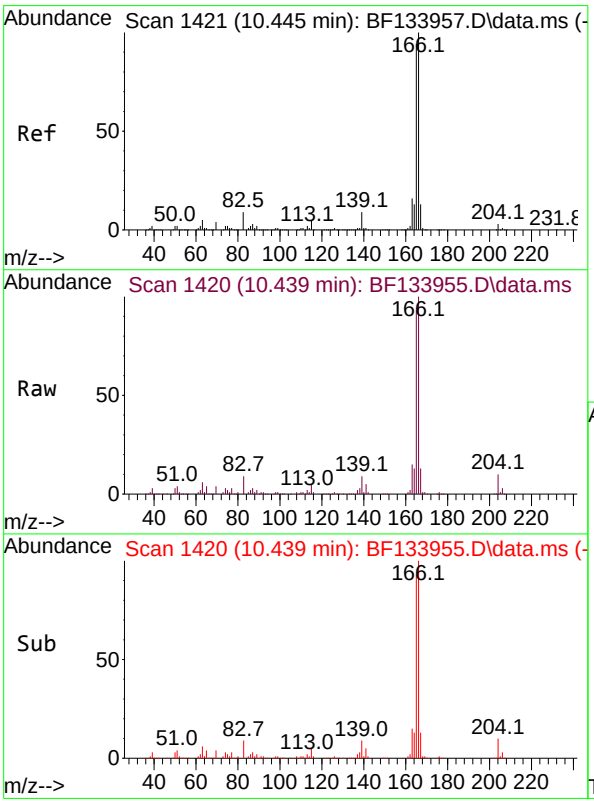
Ion	Ratio	Lower	Upper
165	100		
63	54.2	42.2	63.2
89	76.9	57.4	86.2
182	2.2	2.2	3.4#



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

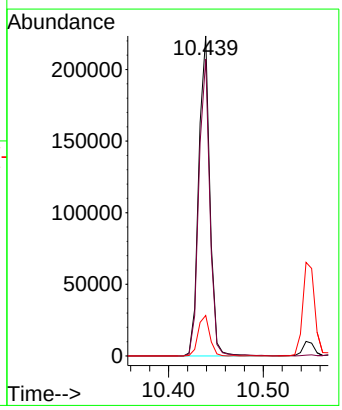
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

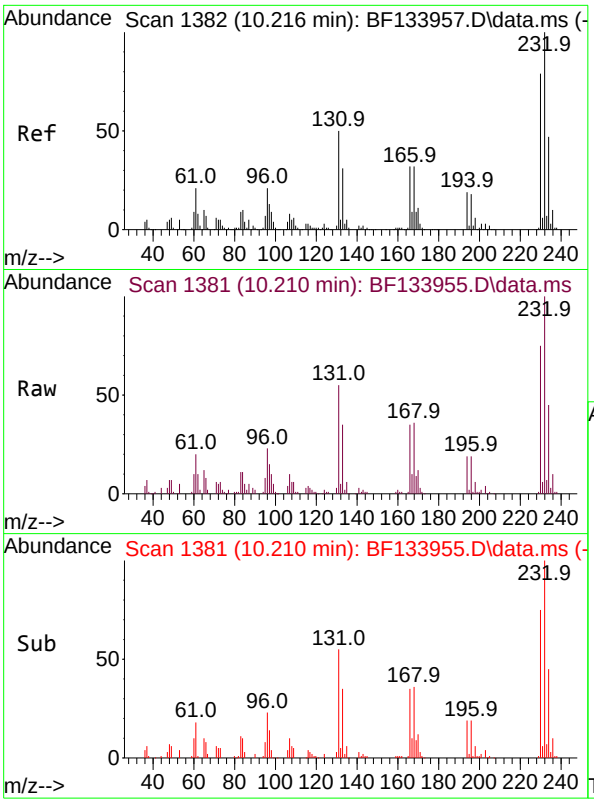


#58
Fluorene
Concen: 11.390 ng
RT: 10.439 min Scan# 1420
Delta R.T. -0.006 min
Lab File: BF133955.D
Acq: 26 Jun 2023 16:27

Tgt Ion:166 Resp: 181843

Ion	Ratio	Lower	Upper
166	100		
165	92.8	75.0	112.4
167	12.7	10.6	15.8

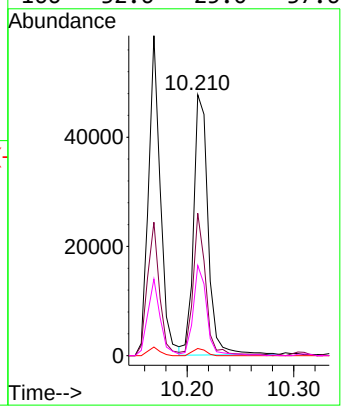




#59
2,3,4,6-Tetrachlorophenol
Concen: 10.708 ng
RT: 10.210 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF133955.D
Acq: 26 Jun 2023 16:27

Tgt Ion:232 Resp: 4522

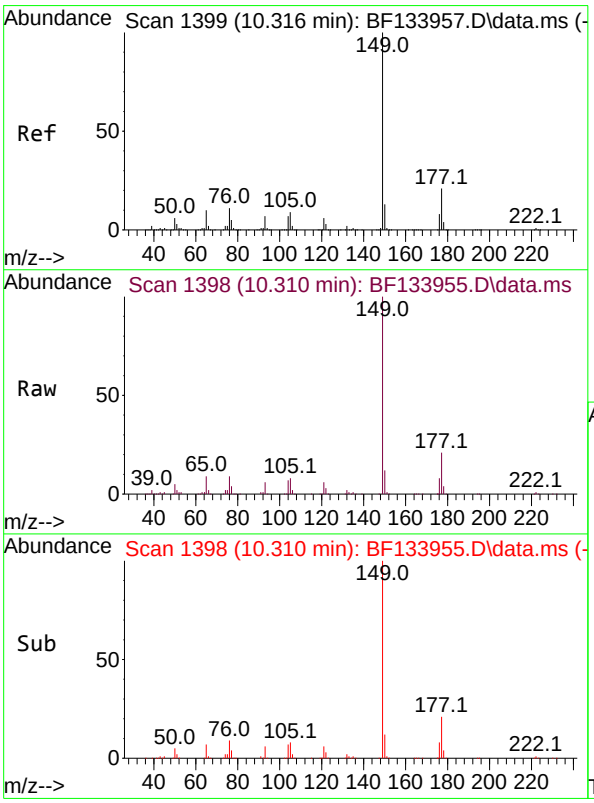
Ion	Ratio	Lower	Upper
232	100		
131	47.9	39.3	58.9
130	2.6	1.8	2.6
166	32.6	25.0	37.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

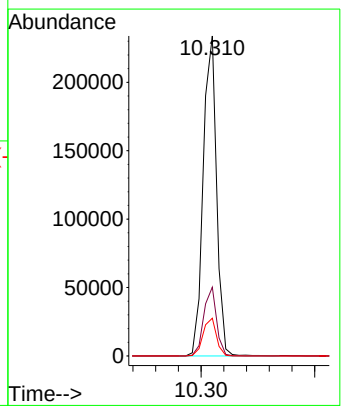
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

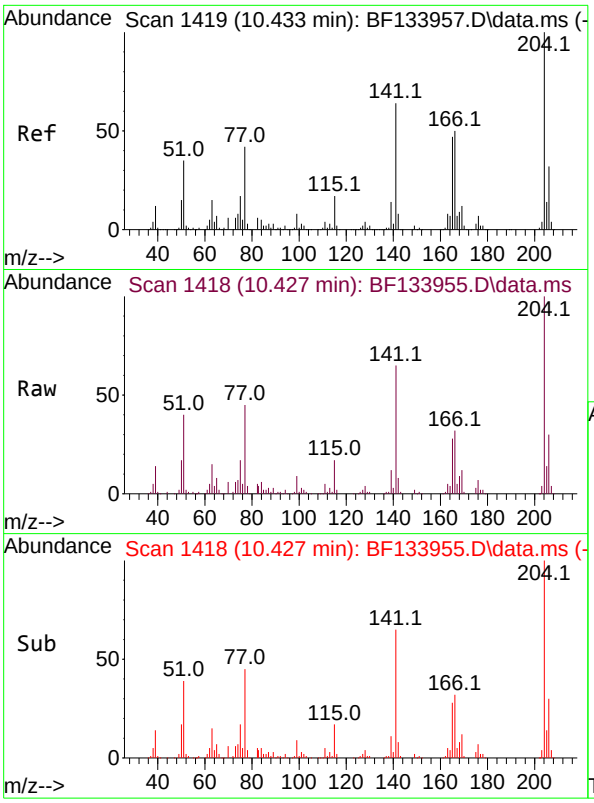


#60
Diethylphthalate
Concen: 11.186 ng
RT: 10.310 min Scan# 1398
Delta R.T. -0.006 min
Lab File: BF133955.D
Acq: 26 Jun 2023 16:27

Tgt Ion:149 Resp: 190935

Ion	Ratio	Lower	Upper
149	100		
177	21.5	17.0	25.6
150	11.8	10.2	15.2

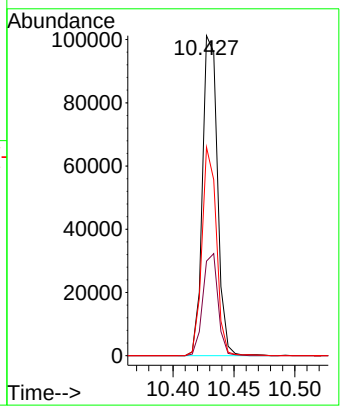




#61
4-Chlorophenyl-phenylether
Concen: 11.247 ng
RT: 10.427 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF133955.D
Acq: 26 Jun 2023 16:27

Tgt Ion:204 Resp: 8653

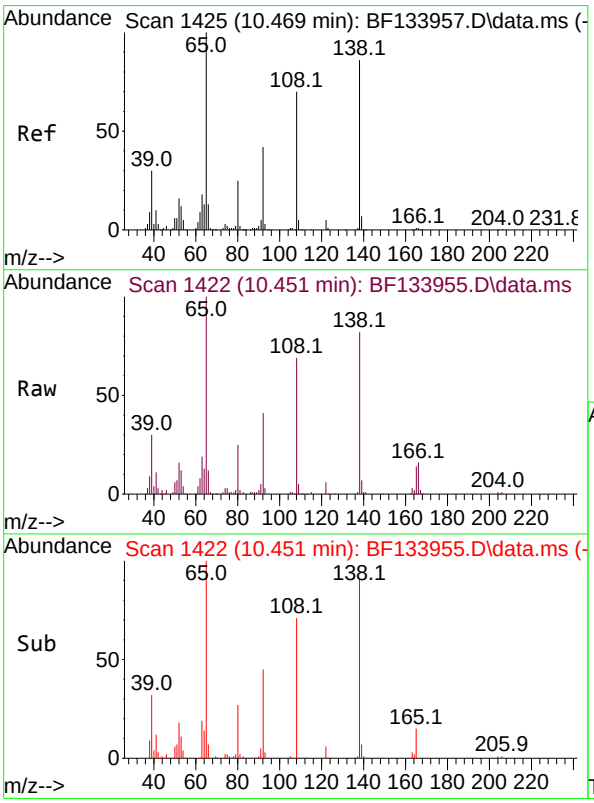
Ion	Ratio	Lower	Upper
204	100		
206	29.5	25.8	38.6
141	65.2	51.5	77.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

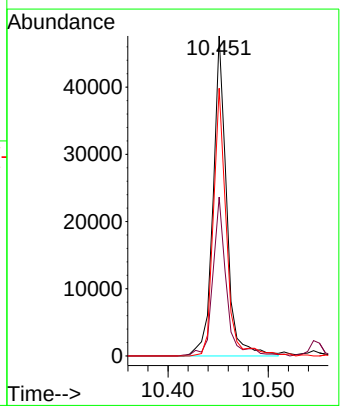
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

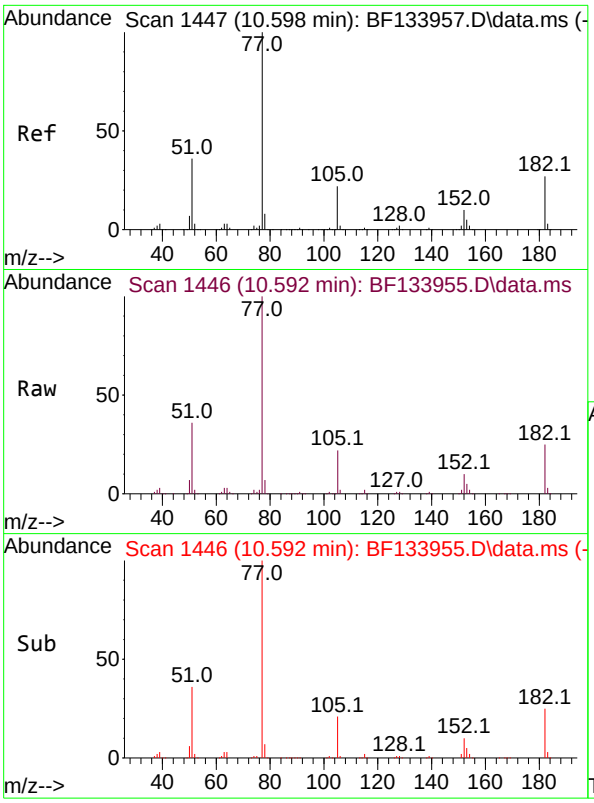


#62
4-Nitroaniline
Concen: 10.484 ng
RT: 10.451 min Scan# 1422
Delta R.T. -0.018 min
Lab File: BF133955.D
Acq: 26 Jun 2023 16:27

Tgt Ion:138 Resp: 44729

Ion	Ratio	Lower	Upper
138	100		
92	49.6	29.7	69.7
108	83.7	62.1	102.1





#63
Azobenzene
Concen: 10.861 ng
RT: 10.592 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF133955.D
Acq: 26 Jun 2023 16:27

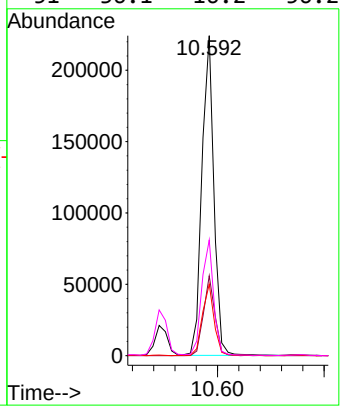
Instrument :
BNA_F
ClientSampleId :
SSTDICC010

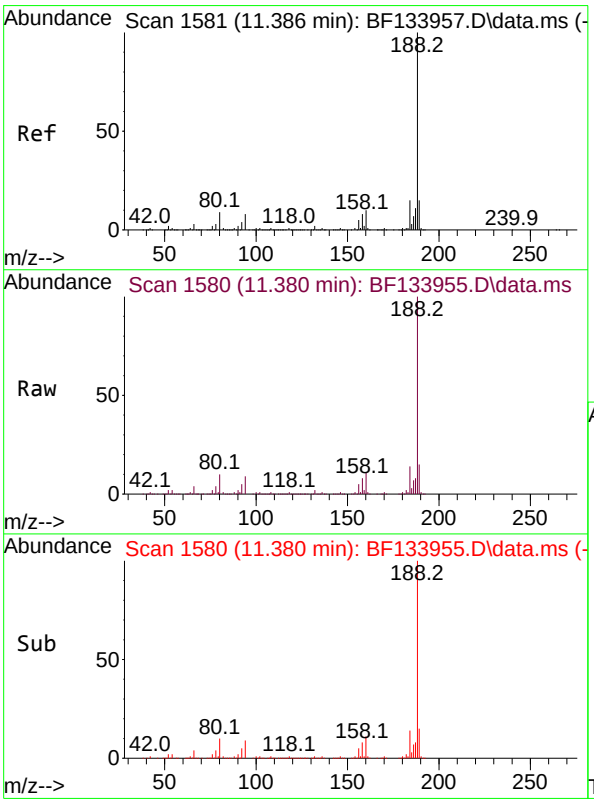
Tgt Ion: 77 Resp: 17536

Ion	Ratio	Lower	Upper
77	100		
182	25.0	6.8	46.8
105	22.4	2.3	42.3
51	36.1	16.2	56.2

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

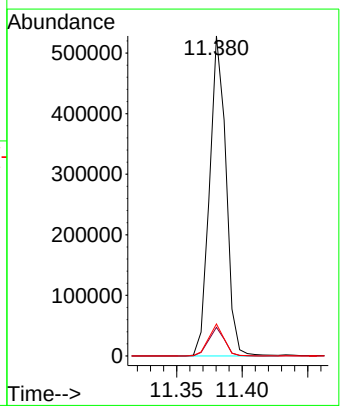


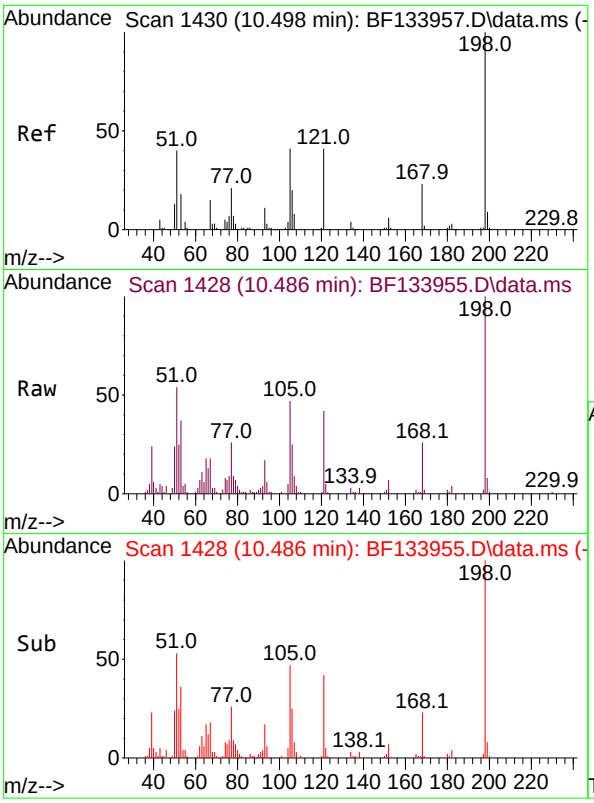


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.380 min Scan# 1580
Delta R.T. -0.006 min
Lab File: BF133955.D
Acq: 26 Jun 2023 16:27

Tgt Ion:188 Resp: 462736

Ion	Ratio	Lower	Upper
188	100		
94	9.0	6.4	9.6
80	10.0	7.3	10.9





#65
4,6-Dinitro-2-methylphenol
Concen: 9.381 ng
RT: 10.486 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF133955.D
Acq: 26 Jun 2023 16:27

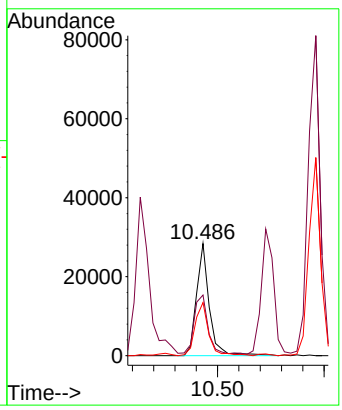
Tgt Ion:198 Resp: 2366

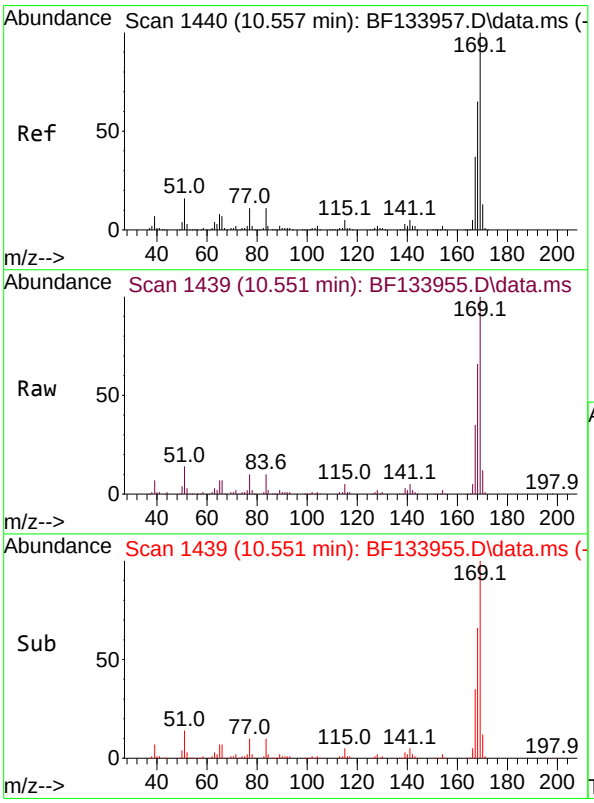
Ion	Ratio	Lower	Upper
198	100		
51	54.1	29.3	69.3
105	47.4	22.4	62.4

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

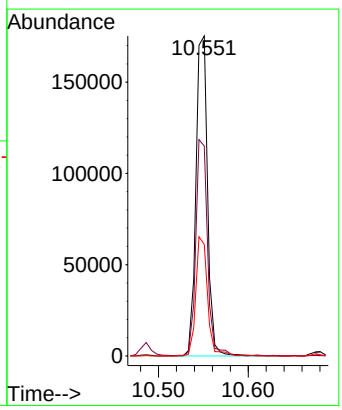


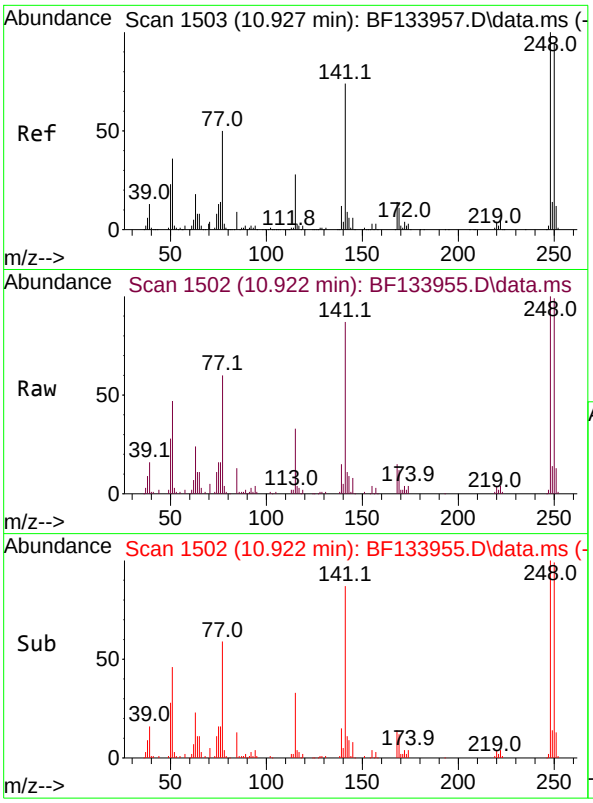


#66
n-Nitrosodiphenylamine
Concen: 10.646 ng
RT: 10.551 min Scan# 1439
Delta R.T. -0.006 min
Lab File: BF133955.D
Acq: 26 Jun 2023 16:27

Tgt Ion:169 Resp: 157392

Ion	Ratio	Lower	Upper
169	100		
168	65.6	52.3	78.5
167	34.8	29.4	44.0

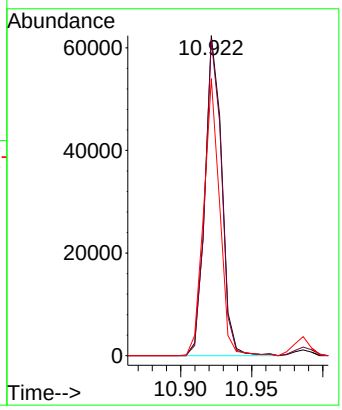




#67
4-Bromophenyl-phenylether
Concen: 10.436 ng
RT: 10.922 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF133955.D
Acq: 26 Jun 2023 16:27

Tgt Ion:248 Resp: 5132

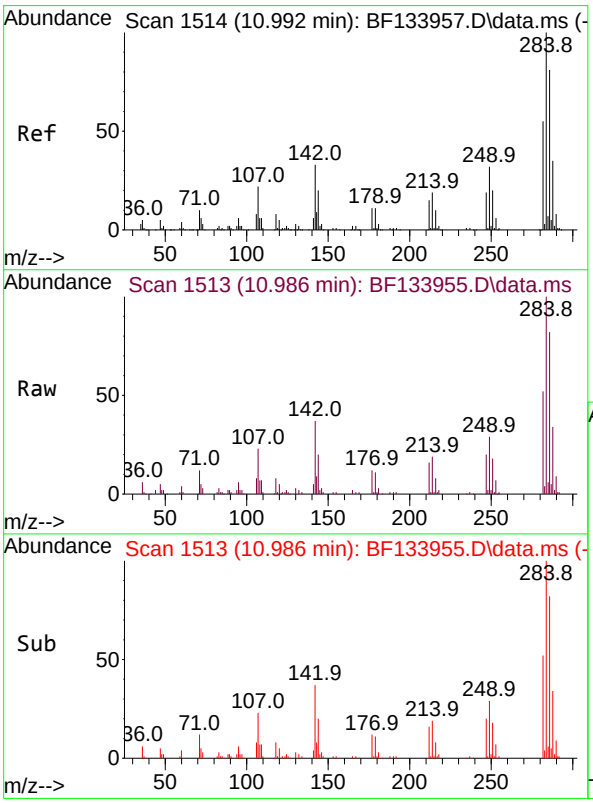
Ion	Ratio	Lower	Upper
248	100		
250	98.7	76.2	114.4
141	86.6	59.0	88.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

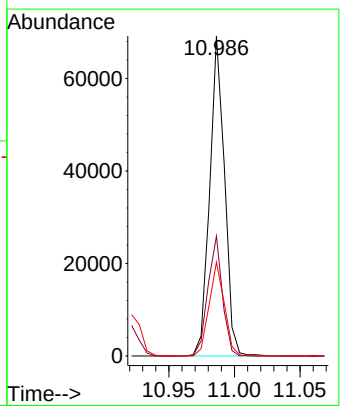
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

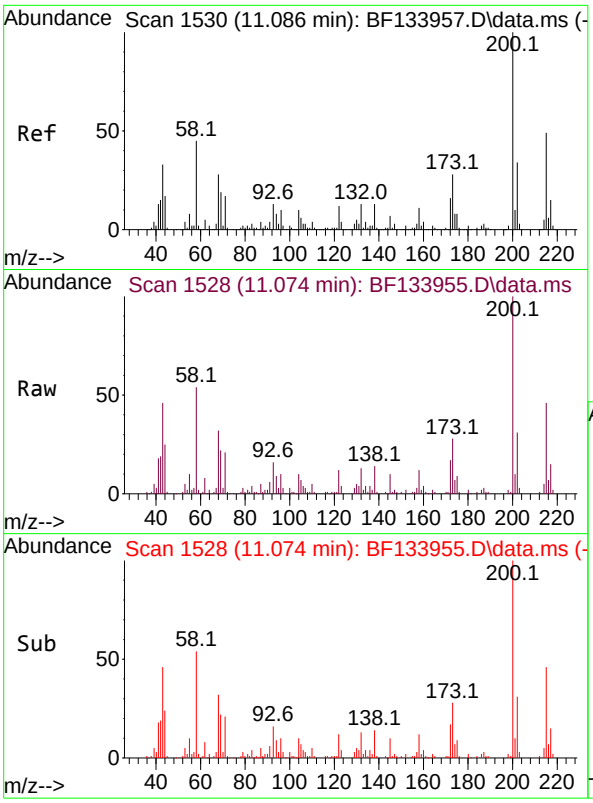


#68
Hexachlorobenzene
Concen: 10.448 ng
RT: 10.986 min Scan# 1513
Delta R.T. -0.006 min
Lab File: BF133955.D
Acq: 26 Jun 2023 16:27

Tgt Ion:284 Resp: 54558

Ion	Ratio	Lower	Upper
284	100		
142	37.5	26.6	40.0
249	29.3	25.5	38.3

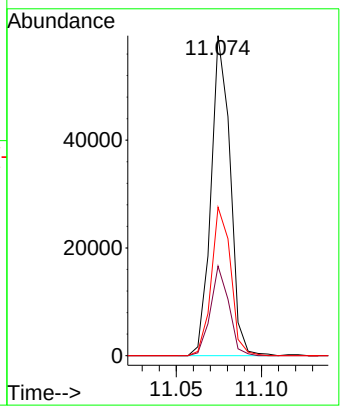




#69
Atrazine
Concen: 11.361 ng
RT: 11.074 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF133955.D
Acq: 26 Jun 2023 16:27

Tgt Ion:200 Resp: 4645

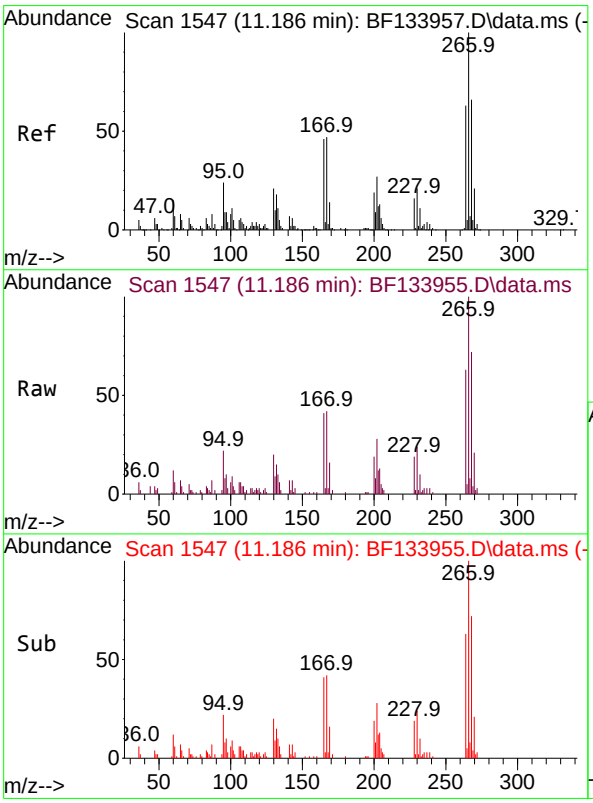
Ion	Ratio	Lower	Upper
200	100		
173	28.0	8.0	48.0
215	46.4	29.3	69.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

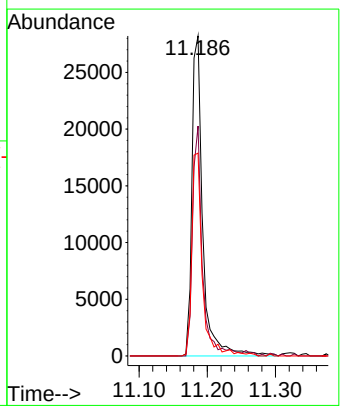
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

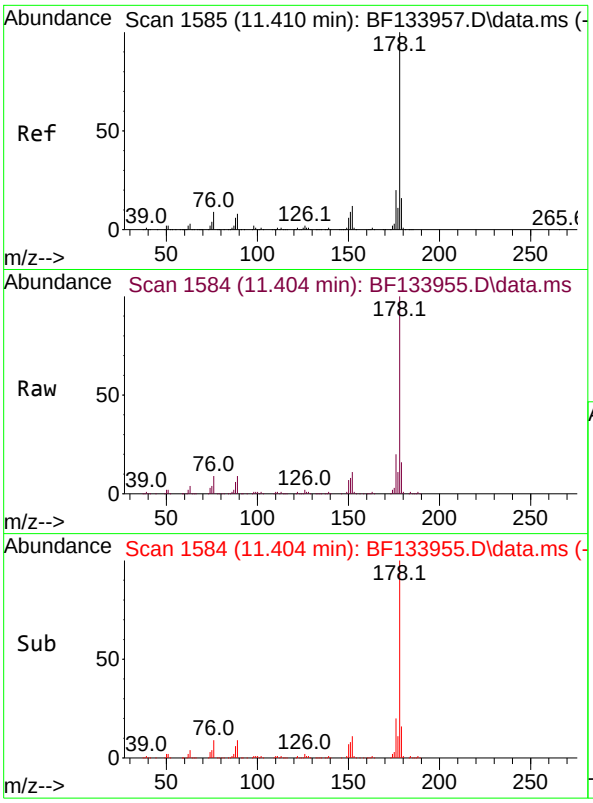


#70
Pentachlorophenol
Concen: 9.981 ng
RT: 11.186 min Scan# 1547
Delta R.T. 0.000 min
Lab File: BF133955.D
Acq: 26 Jun 2023 16:27

Tgt Ion:266 Resp: 31164

Ion	Ratio	Lower	Upper
266	100		
268	71.9	52.6	79.0
264	63.4	50.6	76.0

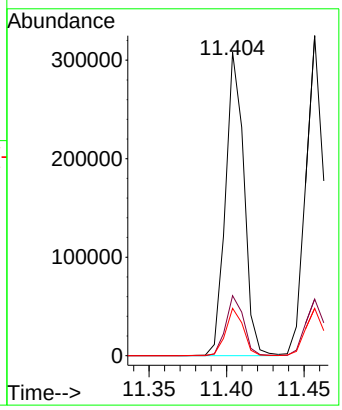




#71
Phenanthrene
Concen: 10.980 ng
RT: 11.404 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF133955.D
Acq: 26 Jun 2023 16:27

Tgt Ion:178 Resp: 25577

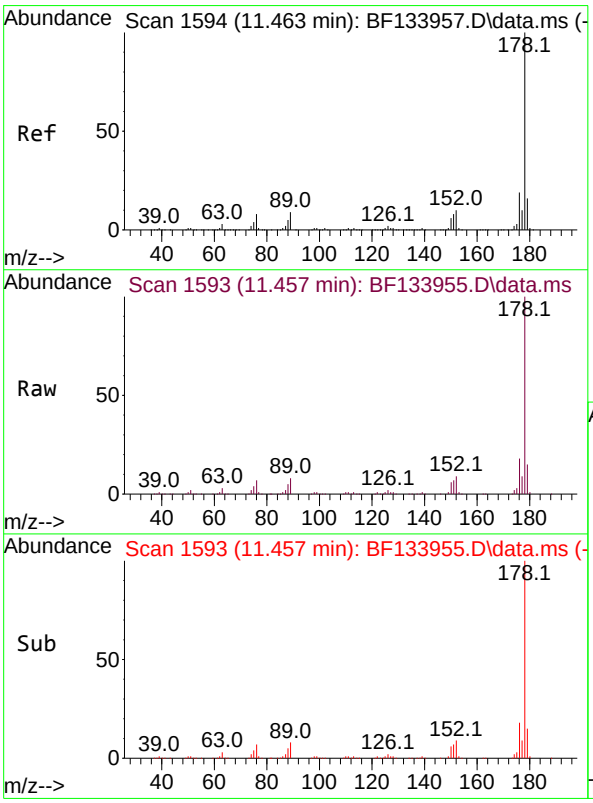
Ion	Ratio	Lower	Upper
178	100		
176	19.8	16.0	24.0
179	15.6	12.4	18.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

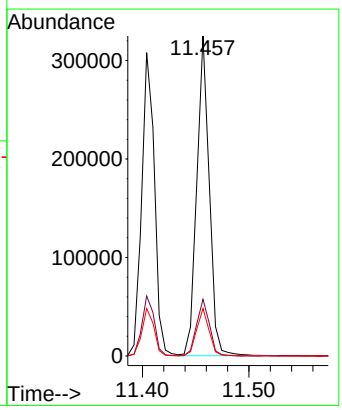
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

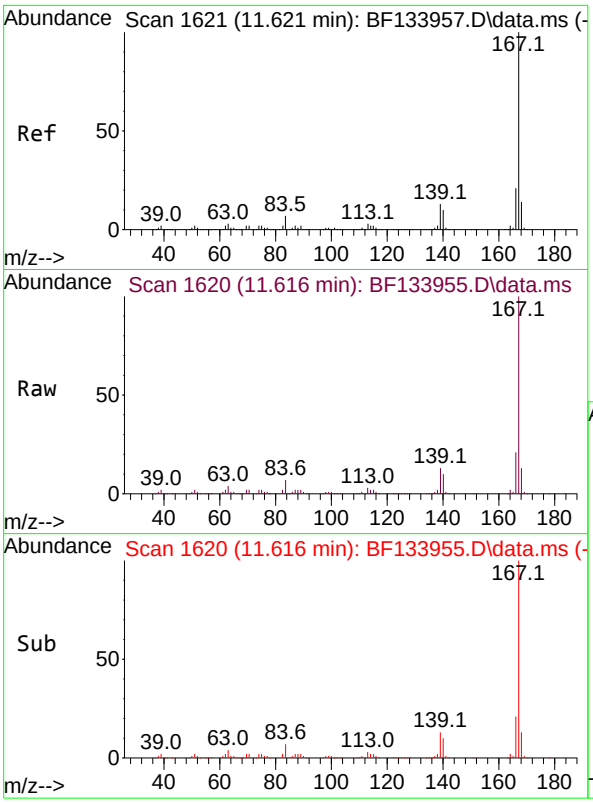


#72
Anthracene
Concen: 10.938 ng
RT: 11.457 min Scan# 1593
Delta R.T. -0.006 min
Lab File: BF133955.D
Acq: 26 Jun 2023 16:27

Tgt Ion:178 Resp: 265019

Ion	Ratio	Lower	Upper
178	100		
176	17.7	15.3	22.9
179	14.8	12.4	18.6

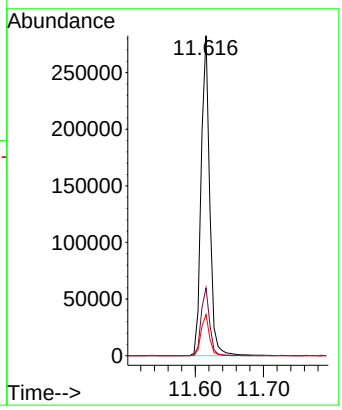




#73
Carbazole
Concen: 11.117 ng
RT: 11.616 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF133955.D
Acq: 26 Jun 2023 16:27

Tgt Ion:167 Resp: 24655

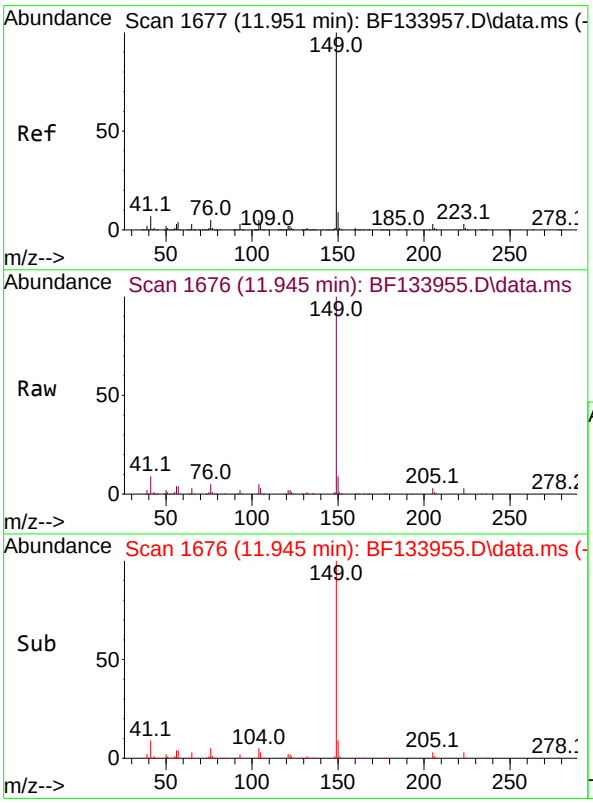
Ion	Ratio	Lower	Upper
167	100		
166	21.2	17.0	25.6
139	12.8	10.4	15.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

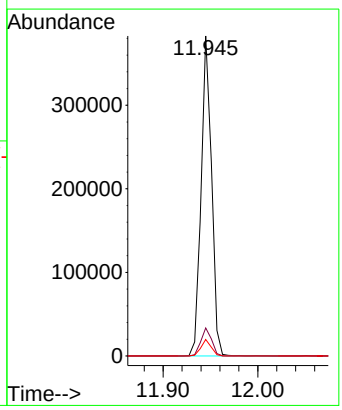
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

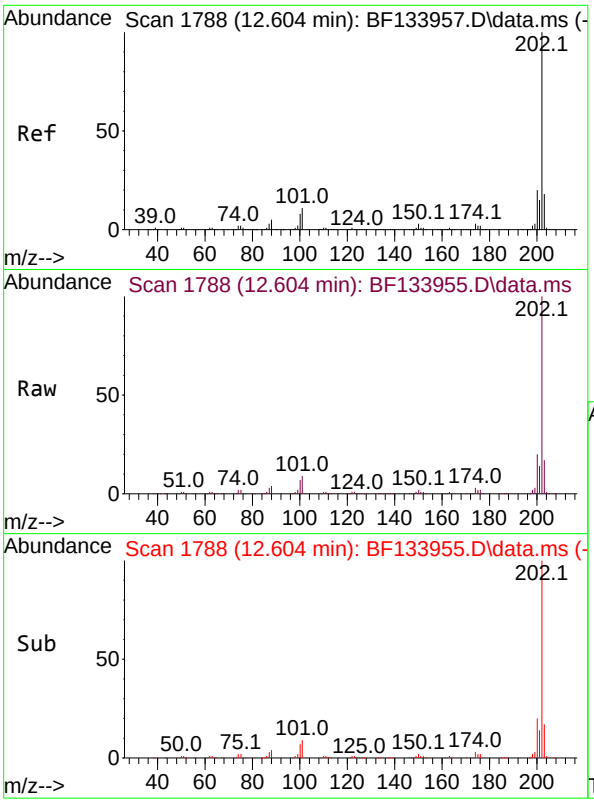


#74
Di-n-butylphthalate
Concen: 11.090 ng
RT: 11.945 min Scan# 1676
Delta R.T. -0.006 min
Lab File: BF133955.D
Acq: 26 Jun 2023 16:27

Tgt Ion:149 Resp: 292473

Ion	Ratio	Lower	Upper
149	100		
150	8.7	7.1	10.7
104	5.2	4.0	6.0

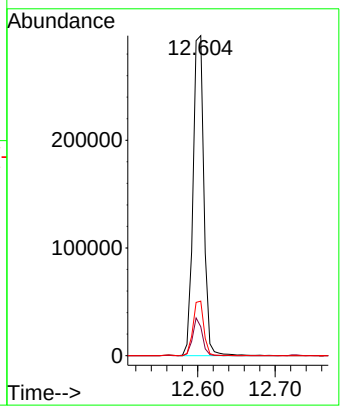




#75
Fluoranthene
Concen: 11.451 ng
RT: 12.604 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF133955.D
Acq: 26 Jun 2023 16:27

Tgt Ion:202 Resp: 28839

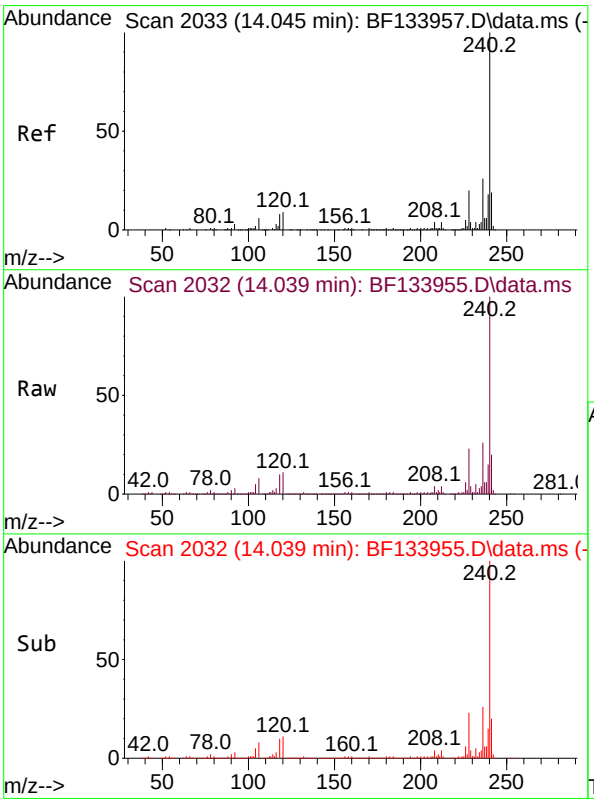
Ion	Ratio	Lower	Upper
202	100		
101	9.0	0.0	31.0
203	17.1	0.0	37.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

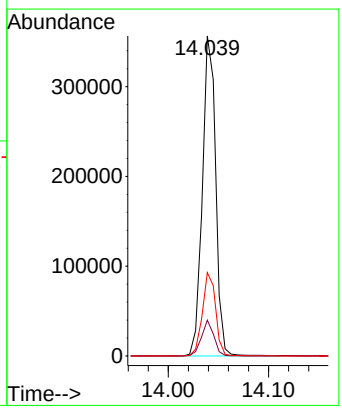
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

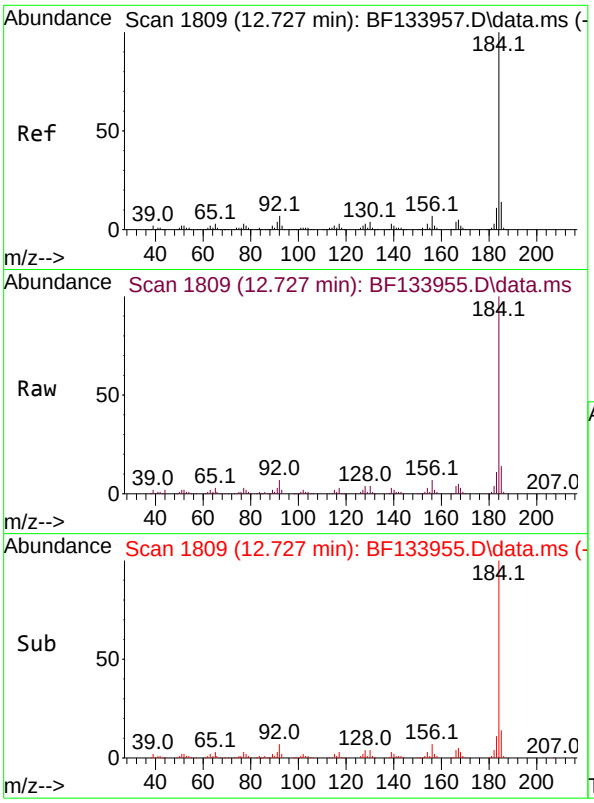


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.039 min Scan# 2032
Delta R.T. -0.006 min
Lab File: BF133955.D
Acq: 26 Jun 2023 16:27

Tgt Ion:240 Resp: 329954

Ion	Ratio	Lower	Upper
240	100		
120	11.2	7.4	11.0#
236	26.0	21.0	31.6

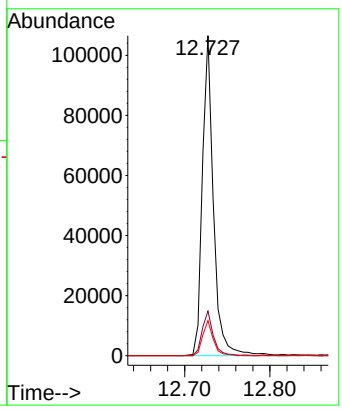




#77
Benzidine
Concen: 12.258 ng
RT: 12.727 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF133955.D
Acq: 26 Jun 2023 16:27

Tgt Ion:184 Resp: 9623

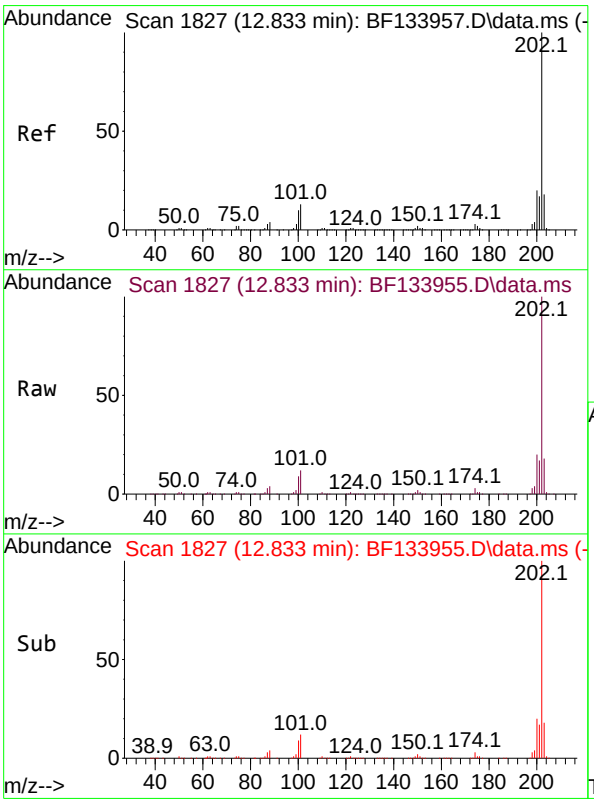
Ion	Ratio	Lower	Upper
184	100		
185	14.0	11.6	17.4
183	10.9	8.8	13.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

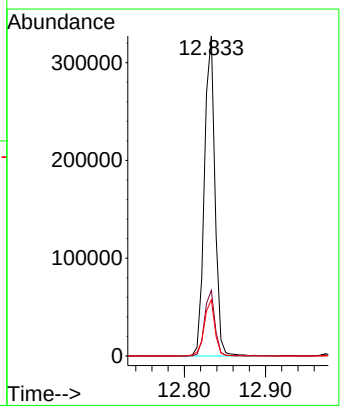
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

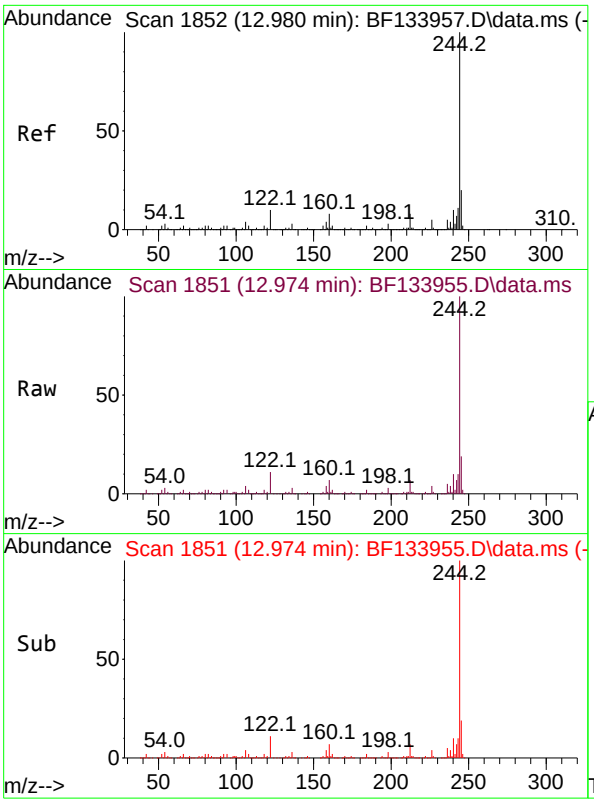


#78
Pyrene
Concen: 9.617 ng
RT: 12.833 min Scan# 1827
Delta R.T. 0.000 min
Lab File: BF133955.D
Acq: 26 Jun 2023 16:27

Tgt Ion:202 Resp: 295311

Ion	Ratio	Lower	Upper
202	100		
200	20.5	16.1	24.1
203	17.5	14.3	21.5

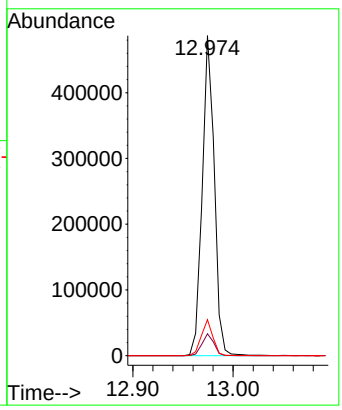




#79
Terphenyl-d14
Concen: 19.976 ng
RT: 12.974 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF133955.D
Acq: 26 Jun 2023 16:27

Tgt Ion:244 Resp: 40952

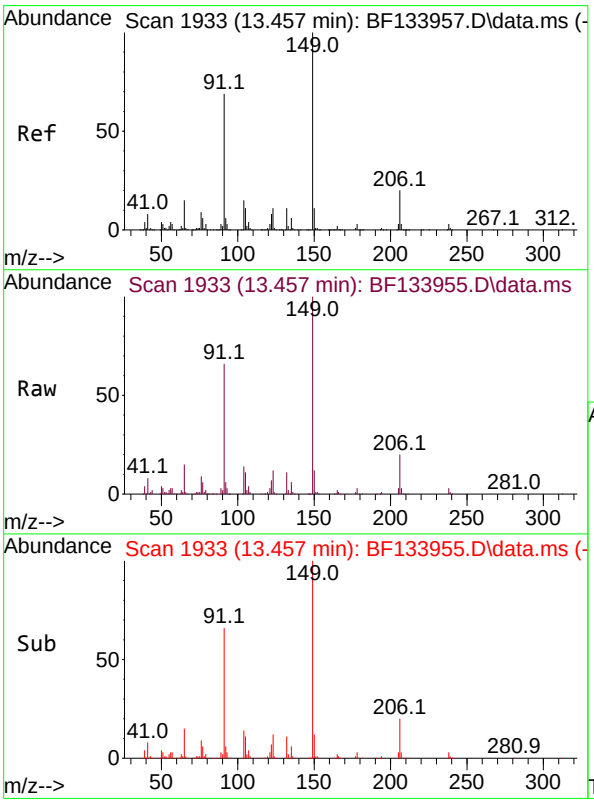
Ion	Ratio	Lower	Upper
244	100		
212	6.8	6.0	9.0
122	11.2	8.3	12.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

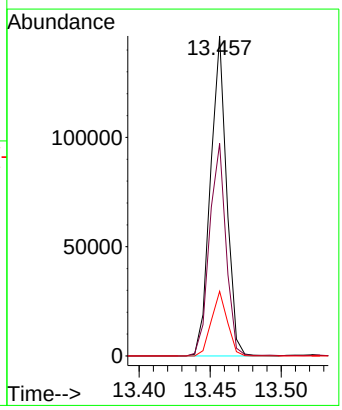
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

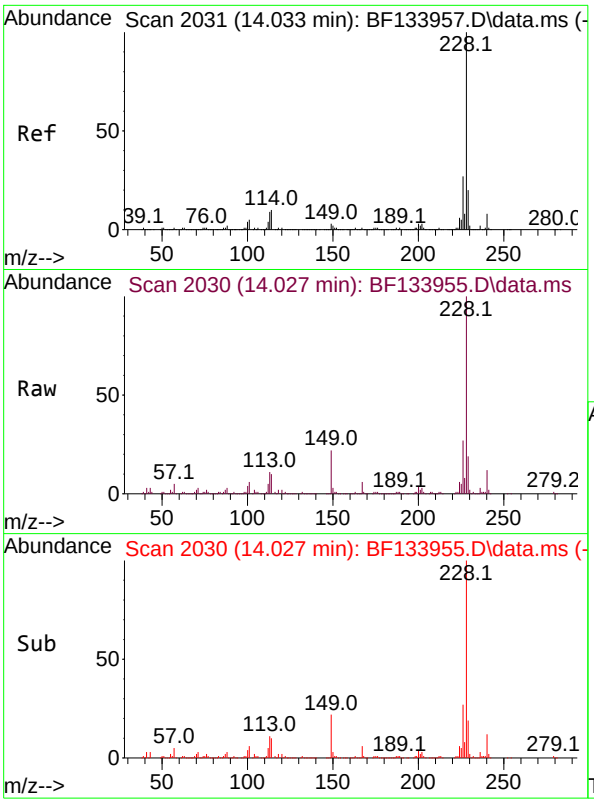


#80
Butylbenzylphthalate
Concen: 10.058 ng
RT: 13.457 min Scan# 1933
Delta R.T. 0.000 min
Lab File: BF133955.D
Acq: 26 Jun 2023 16:27

Tgt Ion:149 Resp: 115832

Ion	Ratio	Lower	Upper
149	100		
91	66.4	55.1	82.7
206	20.2	15.7	23.5

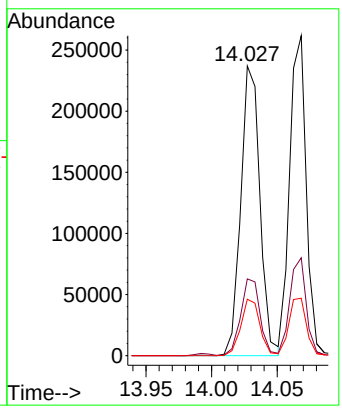




#81
Benzo(a)anthracene
Concen: 10.540 ng
RT: 14.027 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF133955.D
Acq: 26 Jun 2023 16:27

Tgt Ion:228 Resp: 24118

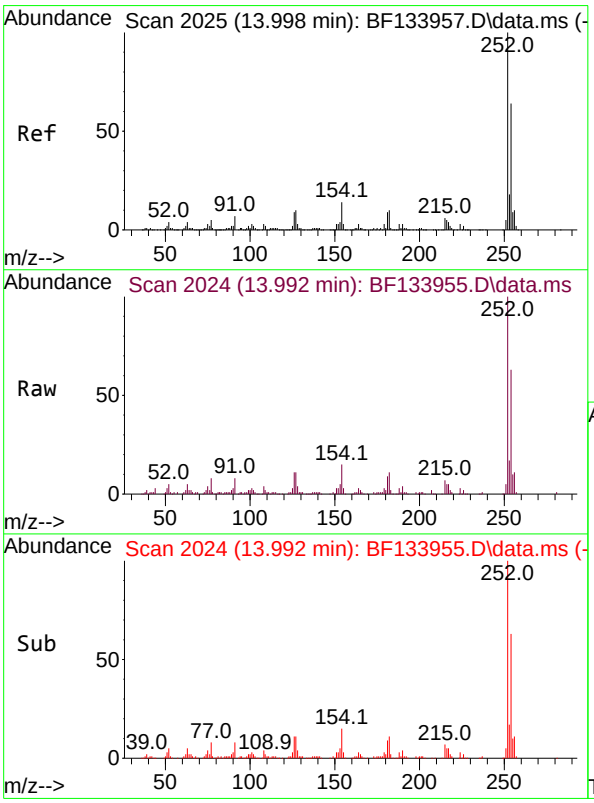
Ion	Ratio	Lower	Upper
228	100		
226	26.5	22.0	33.0
229	19.5	16.3	24.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

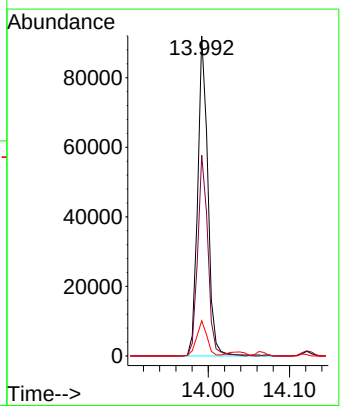
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

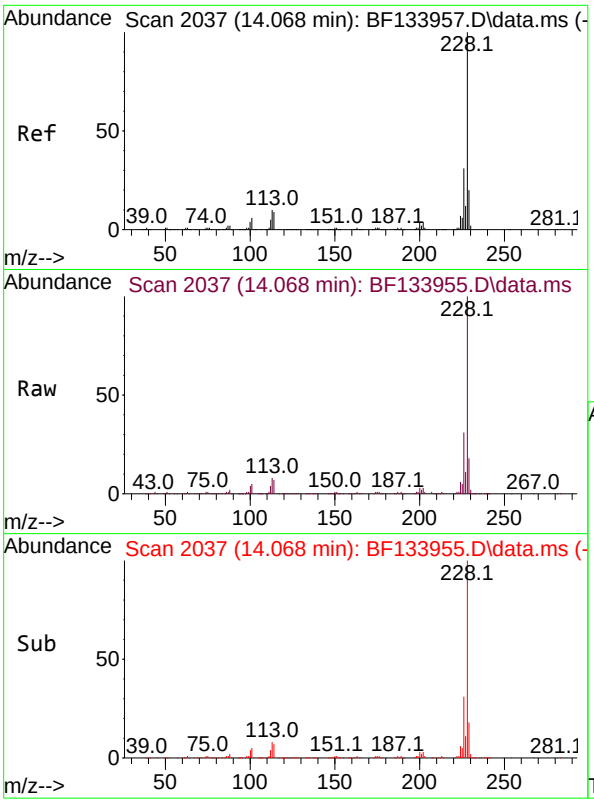


#82
3,3'-Dichlorobenzidine
Concen: 11.048 ng
RT: 13.992 min Scan# 2024
Delta R.T. -0.006 min
Lab File: BF133955.D
Acq: 26 Jun 2023 16:27

Tgt Ion:252 Resp: 80099

Ion	Ratio	Lower	Upper
252	100		
254	62.8	51.4	77.0
126	11.0	7.4	11.2

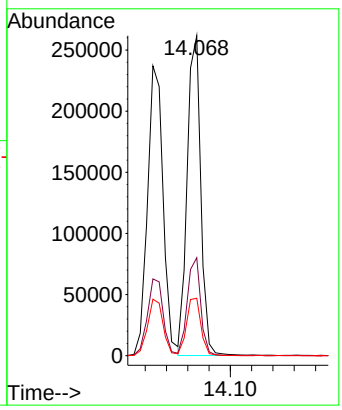




#83
Chrysene
Concen: 10.452 ng
RT: 14.068 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF133955.D
Acq: 26 Jun 2023 16:27

Tgt Ion:228 Resp: 23165

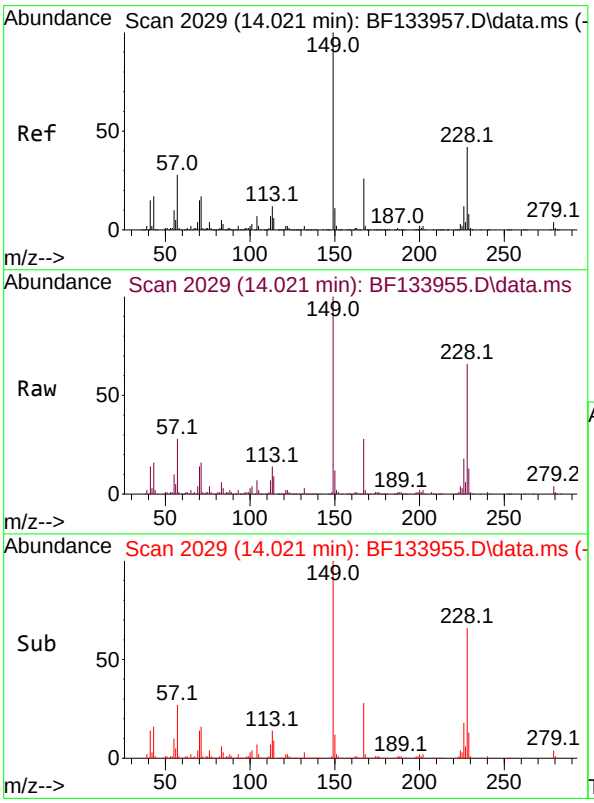
Ion	Ratio	Lower	Upper
228	100		
226	30.6	24.4	36.6
229	17.9	16.1	24.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

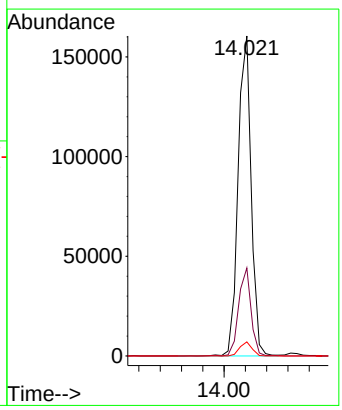
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

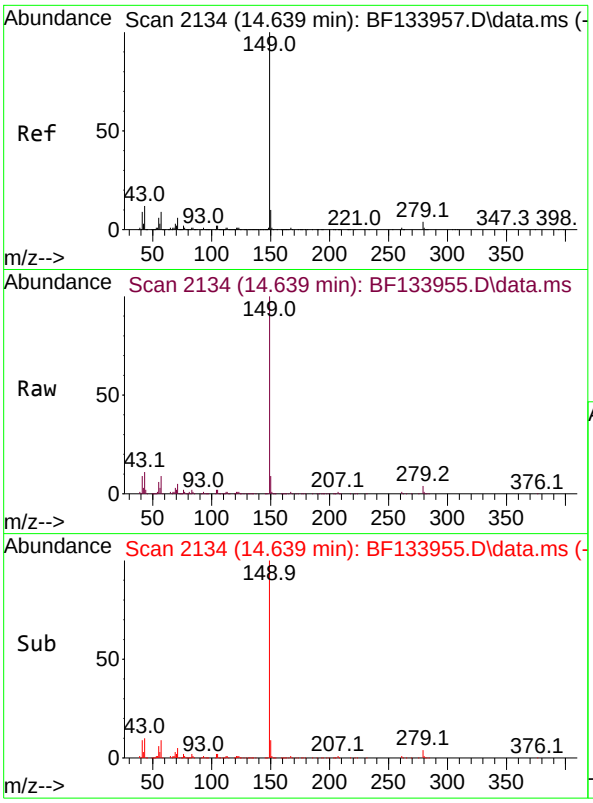


#84
Bis(2-ethylhexyl)phthalate
Concen: 10.367 ng
RT: 14.021 min Scan# 2029
Delta R.T. 0.000 min
Lab File: BF133955.D
Acq: 26 Jun 2023 16:27

Tgt Ion:149 Resp: 137185

Ion	Ratio	Lower	Upper
149	100		
167	27.5	21.0	31.4
279	4.4	3.3	4.9

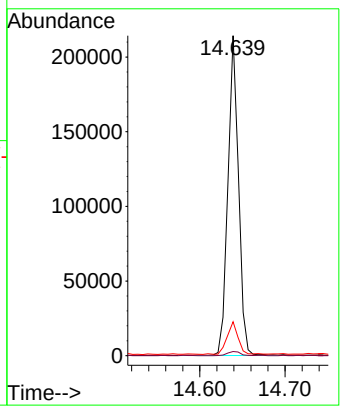




#85
Di-n-octyl phthalate
Concen: 9.539 ng
RT: 14.639 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF133955.D
Acq: 26 Jun 2023 16:27

Tgt Ion:149 Resp: 18548

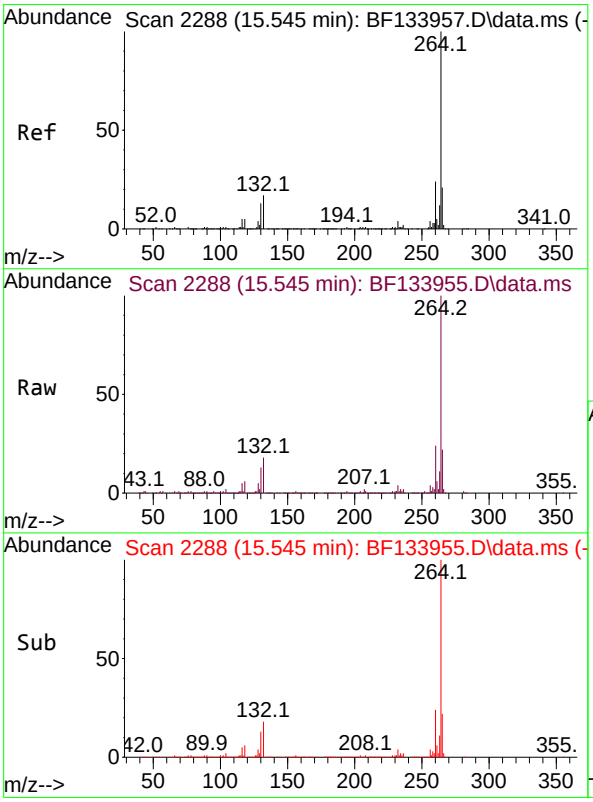
Ion	Ratio	Lower	Upper
149	100		
167	1.7	1.3	1.9
43	10.8	9.0	13.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

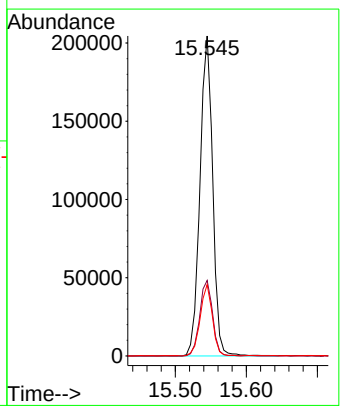
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

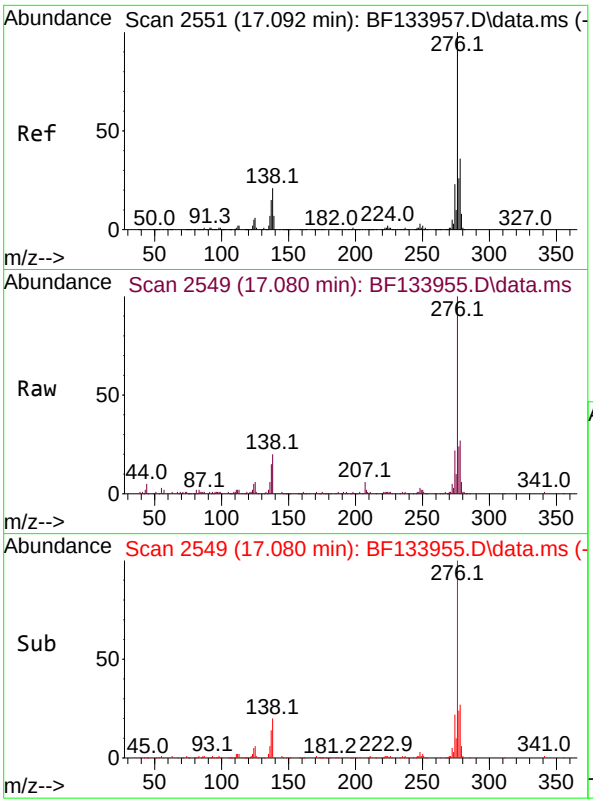


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.545 min Scan# 2288
Delta R.T. 0.000 min
Lab File: BF133955.D
Acq: 26 Jun 2023 16:27

Tgt Ion:264 Resp: 255445

Ion	Ratio	Lower	Upper
264	100		
260	23.6	19.5	29.3
265	22.3	16.6	25.0

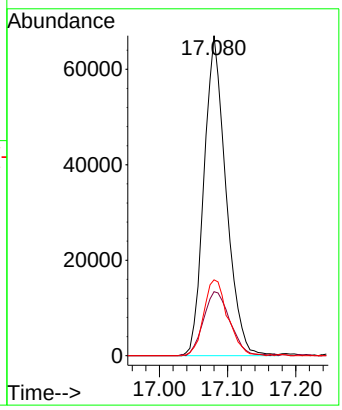




#87
Indeno(1,2,3-cd)pyrene
Concen: 8.516 ng
RT: 17.080 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF133955.D
Acq: 26 Jun 2023 16:27

Tgt Ion:276 Resp: 15095

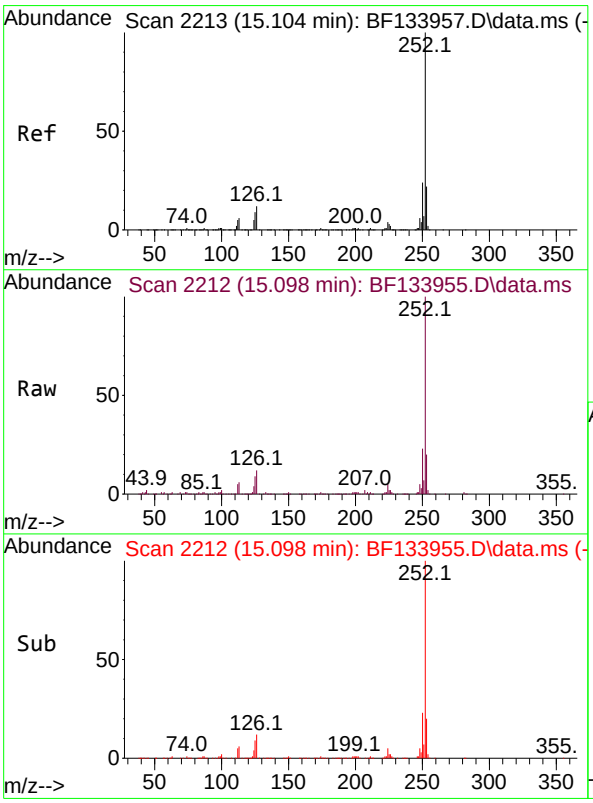
Ion	Ratio	Lower	Upper
276	100		
138	24.1	18.7	28.1
277	25.9	19.9	29.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

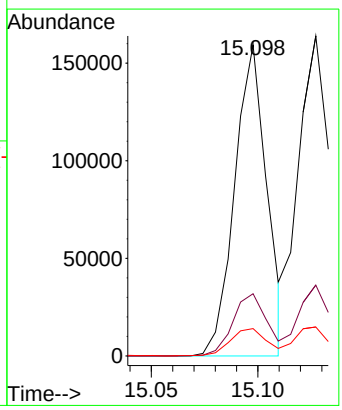
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

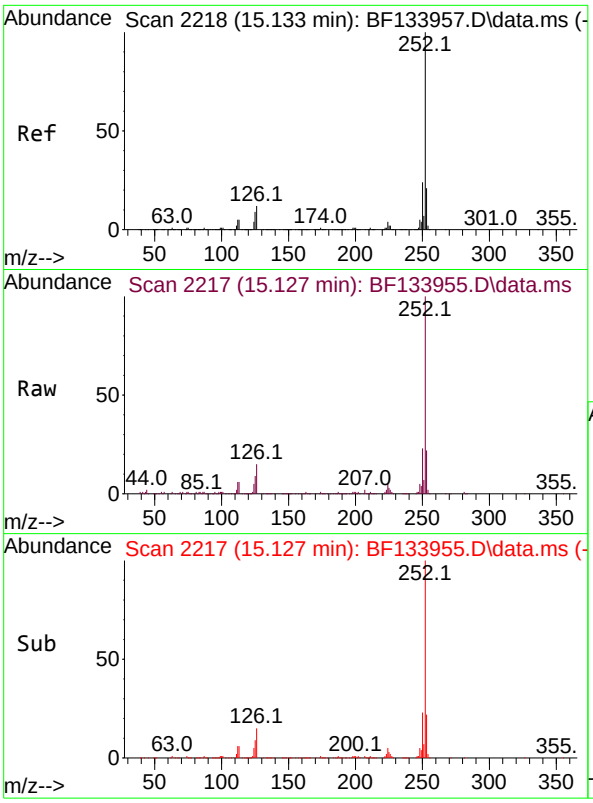


#88
Benzo(b)fluoranthene
Concen: 11.175 ng
RT: 15.098 min Scan# 2212
Delta R.T. -0.006 min
Lab File: BF133955.D
Acq: 26 Jun 2023 16:27

Tgt Ion:252 Resp: 167852

Ion	Ratio	Lower	Upper
252	100		
253	20.0	17.4	26.0
125	8.8	7.1	10.7

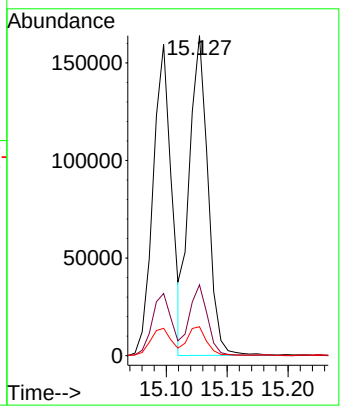




#89
Benzo(k)fluoranthene
Concen: 11.403 ng
RT: 15.127 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF133955.D
Acq: 26 Jun 2023 16:27

Tgt Ion:252 Resp: 17438

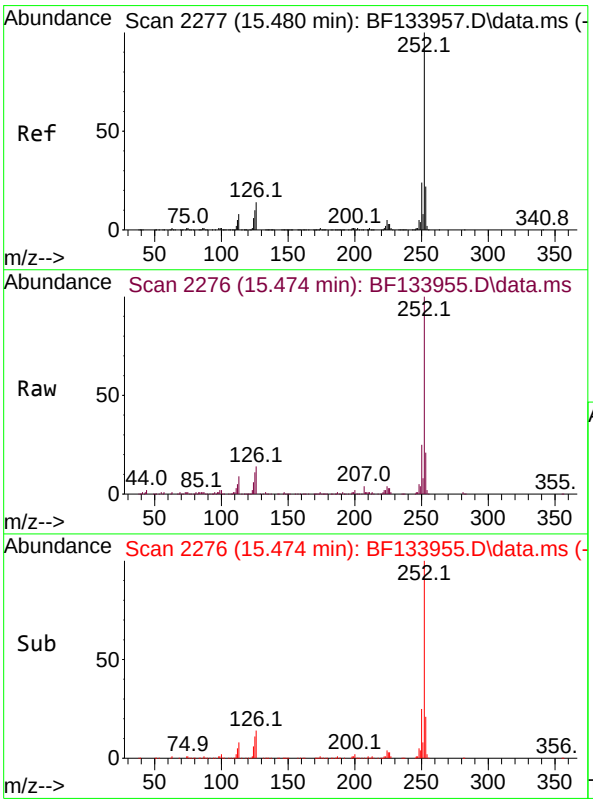
Ion	Ratio	Lower	Upper
252	100		
253	22.2	16.9	25.3
125	9.1	7.4	11.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

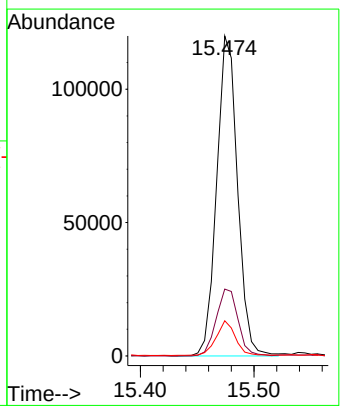
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

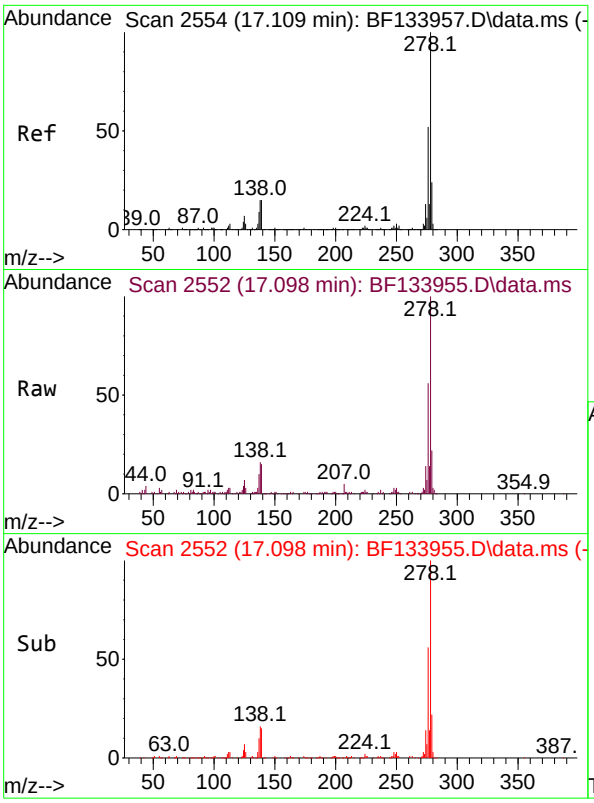


#90
Benzo(a)pyrene
Concen: 10.542 ng
RT: 15.474 min Scan# 2276
Delta R.T. -0.006 min
Lab File: BF133955.D
Acq: 26 Jun 2023 16:27

Tgt Ion:252 Resp: 153113

Ion	Ratio	Lower	Upper
252	100		
253	20.9	17.4	26.0
125	11.0	8.4	12.6

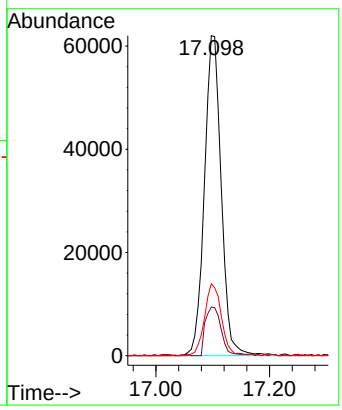




#91
Dibenzo(a,h)anthracene
Concen: 8.779 ng
RT: 17.098 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF133955.D
Acq: 26 Jun 2023 16:27

Tgt Ion:278 Resp: 12710

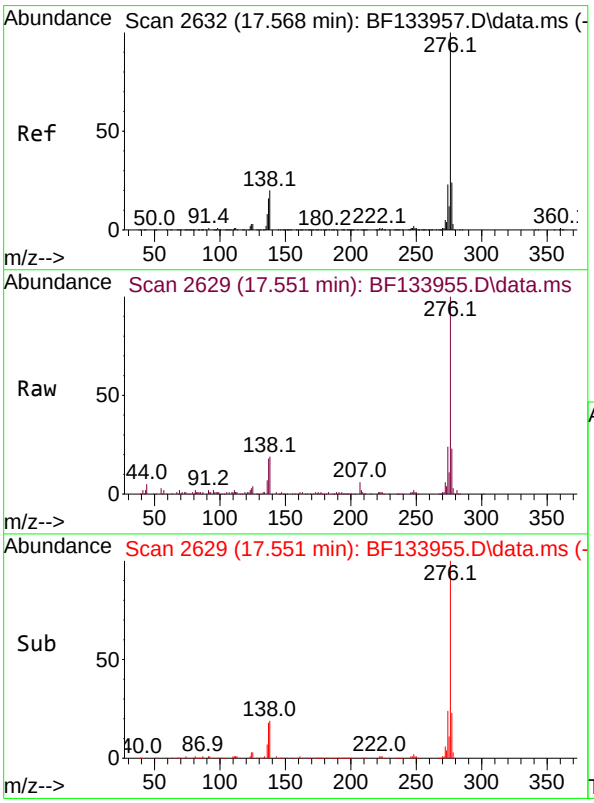
Ion	Ratio	Lower	Upper
278	100		
139	15.2	12.2	18.4
279	22.4	19.4	29.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

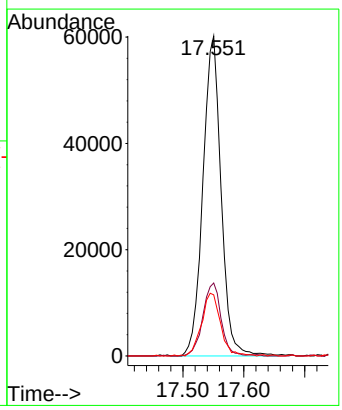
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023



#92
Benzo(g,h,i)perylene
Concen: 8.377 ng
RT: 17.551 min Scan# 2629
Delta R.T. -0.018 min
Lab File: BF133955.D
Acq: 26 Jun 2023 16:27

Tgt Ion:276 Resp: 125066

Ion	Ratio	Lower	Upper
276	100		
277	22.8	19.0	28.6
138	19.1	16.2	24.2



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF062623\
Data File : BF133956.D
Acq On : 26 Jun 2023 17:02
Operator : CG\JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 26 23:03:37 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF062623.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Jun 26 22:39:13 2023
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.851	152	118955	20.000	ng		0.00
21) Naphthalene-d8	8.134	136	447578	20.000	ng		0.00
39) Acenaphthene-d10	9.886	164	229018	20.000	ng		0.00
64) Phenanthrene-d10	11.380	188	454477	20.000	ng		0.00
76) Chrysene-d12	14.039	240	299224	20.000	ng	#	0.00
86) Perylene-d12	15.545	264	238527	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.481	112	316924	44.566	ng		0.00
7) Phenol-d6	6.481	99	377831	43.203	ng		-0.01
23) Nitrobenzene-d5	7.410	82	351562	42.341	ng		0.00
42) 2,4,6-Tribromophenol	10.680	330	123779	43.107	ng		0.00
45) 2-Fluorobiphenyl	9.204	172	687572	43.650	ng		0.00
79) Terphenyl-d14	12.974	244	768453	41.332	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.628	88	64395	21.961	ng		98
3) Pyridine	3.416	79	168778	22.025	ng		98
4) n-Nitrosodimethylamine	3.363	42	91490	20.974	ng		98
6) Aniline	6.516	93	232721	21.868	ng		99
8) 2-Chlorophenol	6.634	128	158671	21.980	ng		97
9) Benzaldehyde	6.404	77	115516	21.107	ng		96
10) Phenol	6.498	94	202887	22.064	ng		93
11) bis(2-Chloroethyl)ether	6.587	93	145567	21.503	ng		100
12) 1,3-Dichlorobenzene	6.792	146	168075	21.839	ng		98
13) 1,4-Dichlorobenzene	6.869	146	170218	21.897	ng		99
14) 1,2-Dichlorobenzene	7.022	146	159570	21.919	ng		97
15) Benzyl Alcohol	6.992	79	148748	22.063	ng		96
16) 2,2'-oxybis(1-Chloropr...	7.128	45	256973	21.457	ng		99
17) 2-Methylphenol	7.098	107	139757	21.620	ng		99
18) Hexachloroethane	7.357	117	61801	21.442	ng		94
19) n-Nitroso-di-n-propyla...	7.257	70	119791	21.599	ng		97
20) 3+4-Methylphenols	7.251	107	176056	22.450	ng	#	75
22) Acetophenone	7.257	105	218696	21.485	ng	#	97
24) Nitrobenzene	7.428	77	179609	21.406	ng		93
25) Isophorone	7.669	82	313925	20.803	ng		100
26) 2-Nitrophenol	7.745	139	86446	21.477	ng		98
27) 2,4-Dimethylphenol	7.781	122	136531	21.429	ng		100
28) bis(2-Chloroethoxy)met...	7.881	93	185323	21.210	ng		98
29) 2,4-Dichlorophenol	7.987	162	135873	21.506	ng		98
30) 1,2,4-Trichlorobenzene	8.069	180	139289	21.366	ng		96
31) Naphthalene	8.151	128	465759	21.544	ng		100
32) Benzoic acid	7.875	122	103895m	22.191	ng		
33) 4-Chloroaniline	8.204	127	198151	21.426	ng		95
34) Hexachlorobutadiene	8.269	225	87494	21.276	ng		100
35) Caprolactam	8.563	113	43370	20.848	ng		94
36) 4-Chloro-3-methylphenol	8.681	107	149145	21.014	ng		99
37) 2-Methylnaphthalene	8.845	142	327526	21.423	ng		99
38) 1-Methylnaphthalene	8.945	142	300849	21.168	ng		99
40) 1,2,4,5-Tetrachloroben...	9.010	216	145273	21.411	ng		98
41) Hexachlorocyclopentadiene	8.992	237	60527	18.803	ng		97
43) 2,4,6-Trichlorophenol	9.122	196	96772	20.952	ng		100

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF062623\
Data File : BF133956.D
Acq On : 26 Jun 2023 17:02
Operator : CG\JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

Quant Time: Jun 26 23:03:37 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF062623.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Jun 26 22:39:13 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.163	196	114474	21.070	ng		94
46) 1,1'-Biphenyl	9.310	154	391540	21.313	ng		97
47) 2-Chloronaphthalene	9.333	162	283053	21.058	ng		99
48) 2-Nitroaniline	9.433	65	103475	21.123	ng		89
49) Acenaphthylene	9.751	152	497166	21.652	ng		100
50) Dimethylphthalate	9.610	163	348595	20.969	ng		100
51) 2,6-Dinitrotoluene	9.675	165	75399	21.057	ng		98
52) Acenaphthene	9.922	154	286795	21.526	ng		99
53) 3-Nitroaniline	9.845	138	92626	21.563	ng		92
54) 2,4-Dinitrophenol	9.951	184	33707	19.377	ng		95
55) Dibenzofuran	10.092	168	448972	21.562	ng		99
56) 4-Nitrophenol	10.004	139	64029	21.310	ng		97
57) 2,4-Dinitrotoluene	10.080	165	103024	21.787	ng		96
58) Fluorene	10.439	166	352872	21.783	ng		99
59) 2,3,4,6-Tetrachlorophenol	10.216	232	89394	20.859	ng		99
60) Diethylphthalate	10.310	149	369078	21.309	ng		99
61) 4-Chlorophenyl-phenyle...	10.433	204	167935	21.511	ng		95
62) 4-Nitroaniline	10.457	138	92001	21.252	ng		99
63) Azobenzene	10.592	77	346193	21.131	ng		98
65) 4,6-Dinitro-2-methylph...	10.486	198	51458	20.768	ng		80
66) n-Nitrosodiphenylamine	10.551	169	311312	21.439	ng		100
67) 4-Bromophenyl-phenylether	10.922	248	103787	21.485	ng		94
68) Hexachlorobenzene	10.986	284	109933	21.434	ng		97
69) Atrazine	11.080	200	88580	22.054	ng		98
70) Pentachlorophenol	11.186	266	65341	21.307	ng		99
71) Phenanthrene	11.404	178	494014	21.592	ng		99
72) Anthracene	11.457	178	522010	21.936	ng		100
73) Carbazole	11.616	167	479978	22.036	ng		100
74) Di-n-butylphthalate	11.945	149	569784	21.997	ng		99
75) Fluoranthene	12.604	202	548574	22.179	ng		98
77) Benzidine	12.727	184	143371	20.137	ng		98
78) Pyrene	12.833	202	558069	20.041	ng		99
80) Butylbenzylphthalate	13.457	149	216431	20.723	ng		97
81) Benzo(a)anthracene	14.027	228	428799	20.663	ng		97
82) 3,3'-Dichlorobenzidine	13.992	252	139178	21.169	ng	#	96
83) Chrysene	14.068	228	418965	20.845	ng		98
84) Bis(2-ethylhexyl)phtha...	14.016	149	248940	20.744	ng		100
85) Di-n-octyl phthalate	14.639	149	340246	19.296	ng		99
87) Indeno(1,2,3-cd)pyrene	17.080	276	342357	20.684	ng		100
88) Benzo(b)fluoranthene	15.098	252	302371	21.559	ng		99
89) Benzo(k)fluoranthene	15.127	252	311542	21.816	ng		99
90) Benzo(a)pyrene	15.474	252	285918	21.081	ng		99
91) Dibenzo(a,h)anthracene	17.104	278	281628	20.832	ng		99
92) Benzo(g,h,i)perylene	17.551	276	289189	20.743	ng		99

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

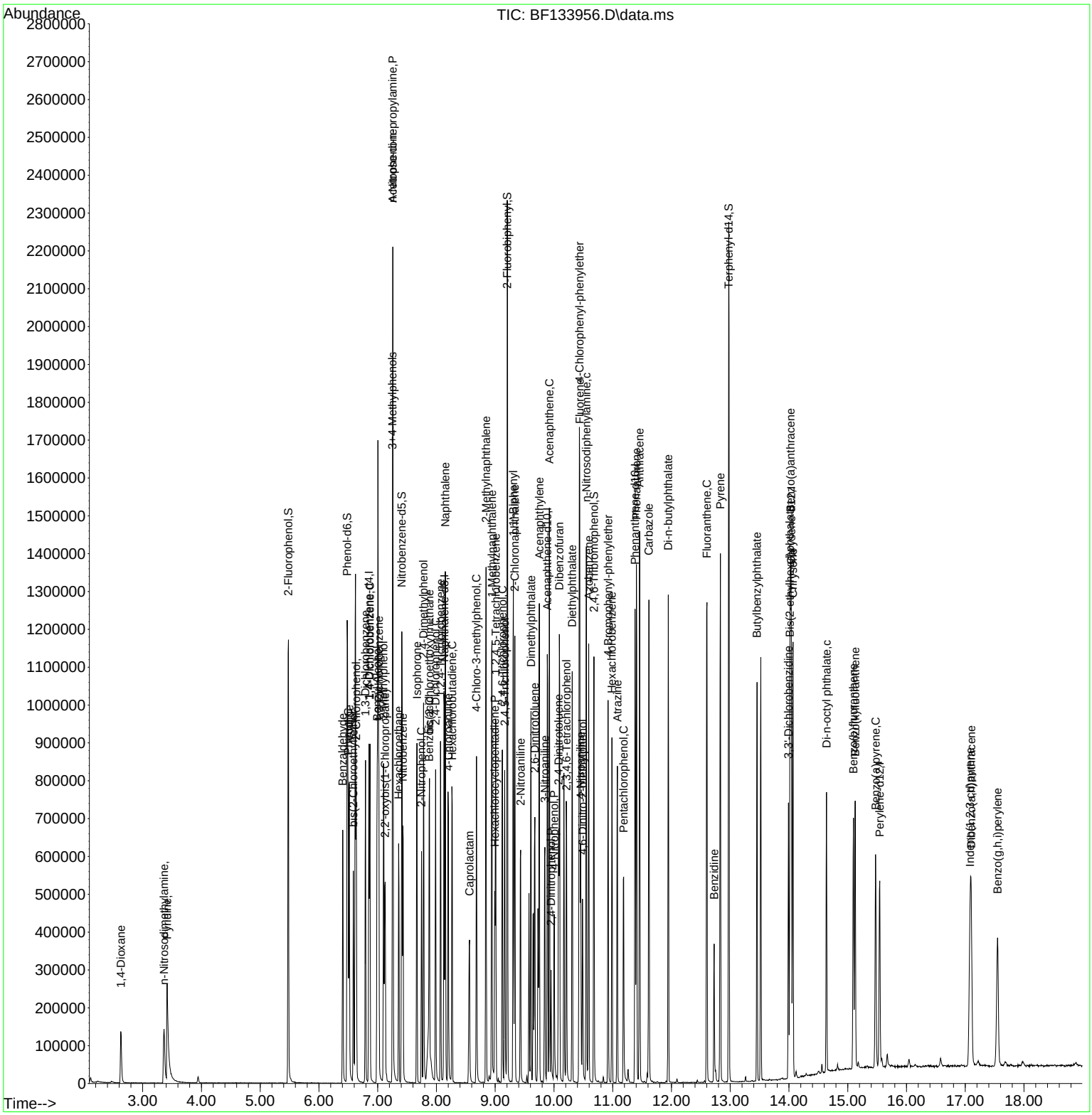
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF062623\
Data File : BF133956.D
Acq On : 26 Jun 2023 17:02
Operator : CG\JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

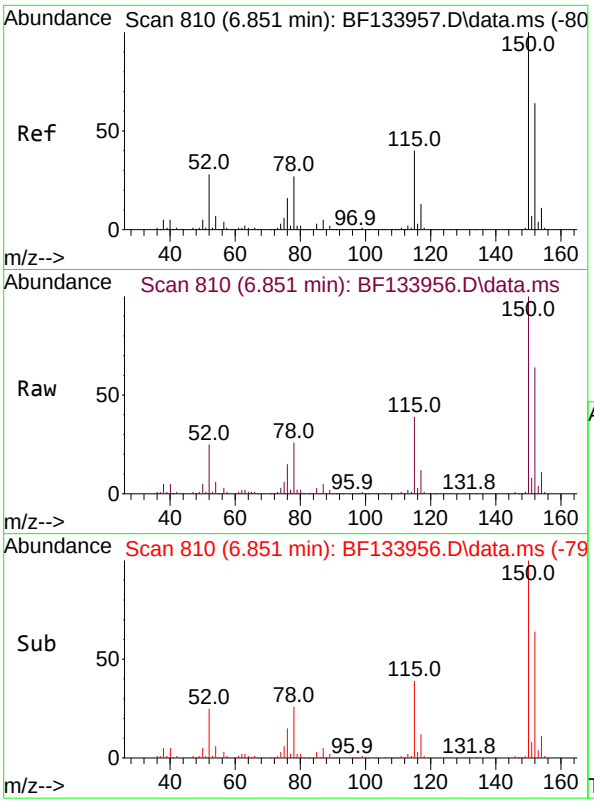
Quant Time: Jun 26 23:03:37 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF062623.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Jun 26 22:39:13 2023
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

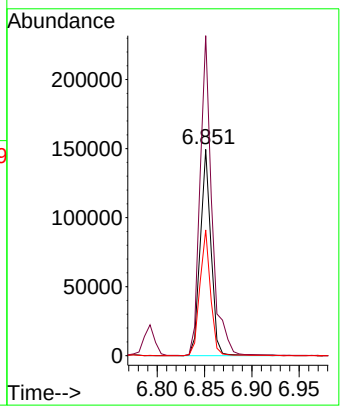




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.851 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF133956.D
Acq: 26 Jun 2023 17:02

Tgt Ion:152 Resp: 11895

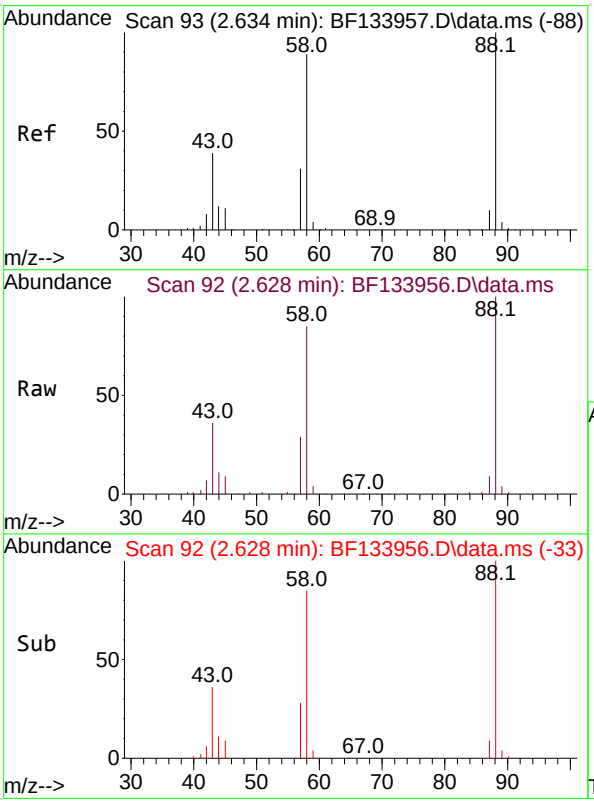
Ion	Ratio	Lower	Upper
152	100		
150	155.1	124.5	186.7
115	60.9	50.2	75.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

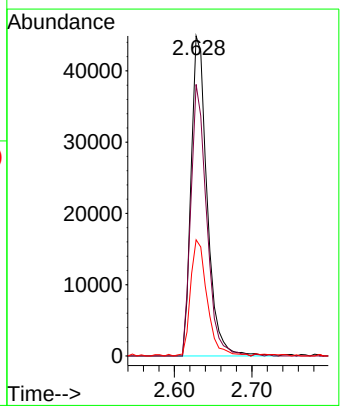
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

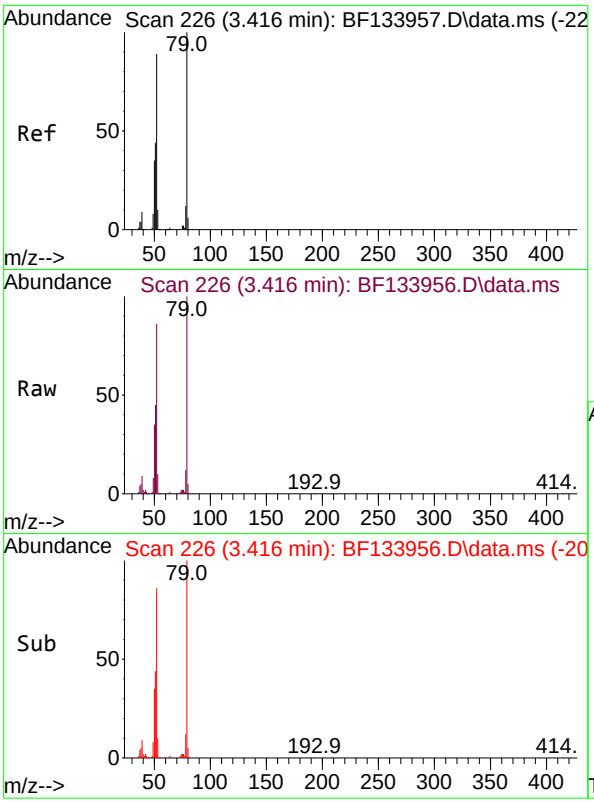


#2
1,4-Dioxane
Concen: 21.961 ng
RT: 2.628 min Scan# 92
Delta R.T. -0.006 min
Lab File: BF133956.D
Acq: 26 Jun 2023 17:02

Tgt Ion: 88 Resp: 64395

Ion	Ratio	Lower	Upper
88	100		
58	83.4	68.8	103.2
43	37.6	30.7	46.1

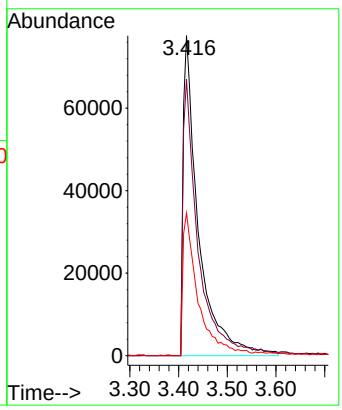




#3
Pyridine
Concen: 22.025 ng
RT: 3.416 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF133956.D
Acq: 26 Jun 2023 17:02

Tgt Ion: 79 Resp: 16877

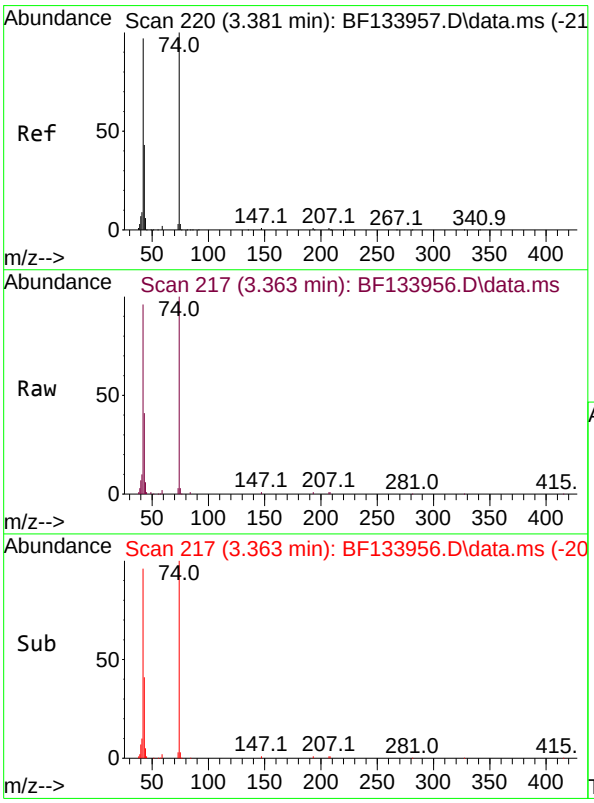
Ion	Ratio	Lower	Upper
79	100		
52	86.4	71.1	106.7
51	44.6	35.2	52.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

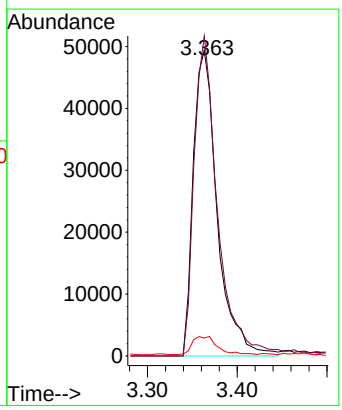
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

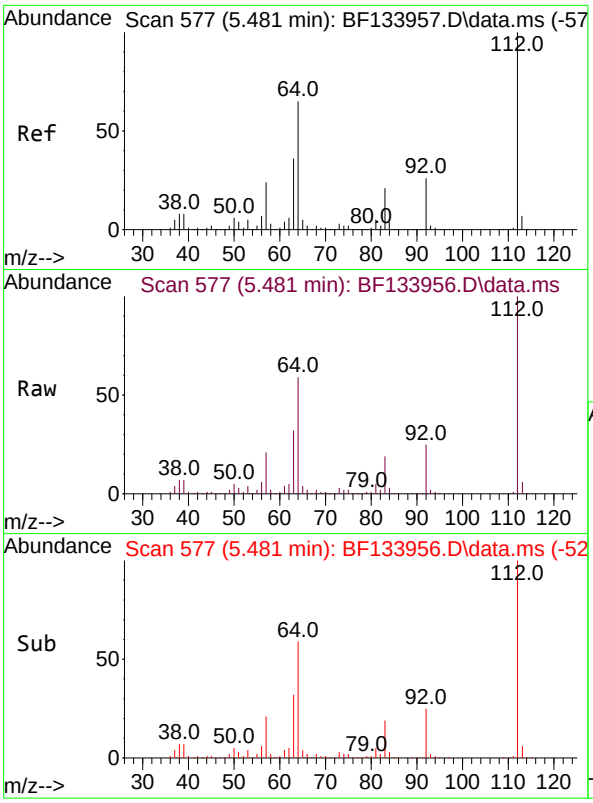


#4
n-Nitrosodimethylamine
Concen: 20.974 ng
RT: 3.363 min Scan# 217
Delta R.T. -0.018 min
Lab File: BF133956.D
Acq: 26 Jun 2023 17:02

Tgt Ion: 42 Resp: 91490

Ion	Ratio	Lower	Upper
42	100		
74	104.7	82.4	123.6
44	5.8	4.9	7.3

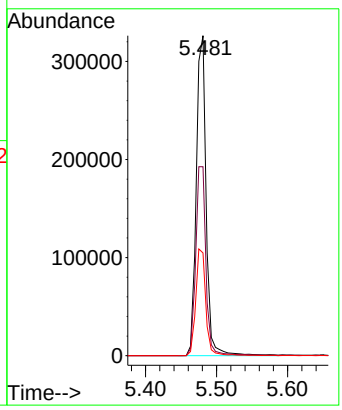




#5
2-Fluorophenol
Concen: 44.566 ng
RT: 5.481 min Scan# 5
Delta R.T. 0.000 min
Lab File: BF133956.D
Acq: 26 Jun 2023 17:02

Tgt Ion:112 Resp: 31692

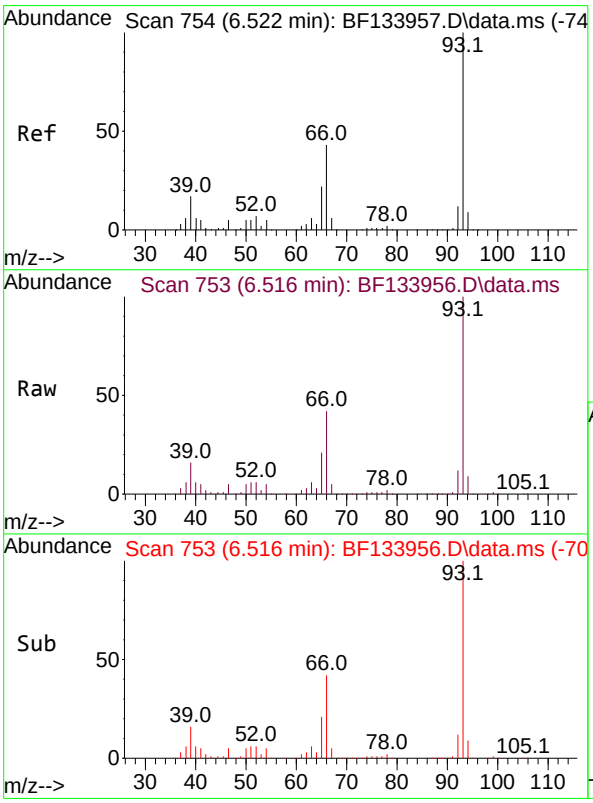
Ion	Ratio	Lower	Upper
112	100		
64	59.1	52.1	78.1
63	32.1	28.6	42.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

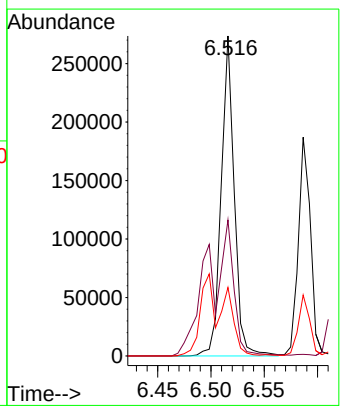
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

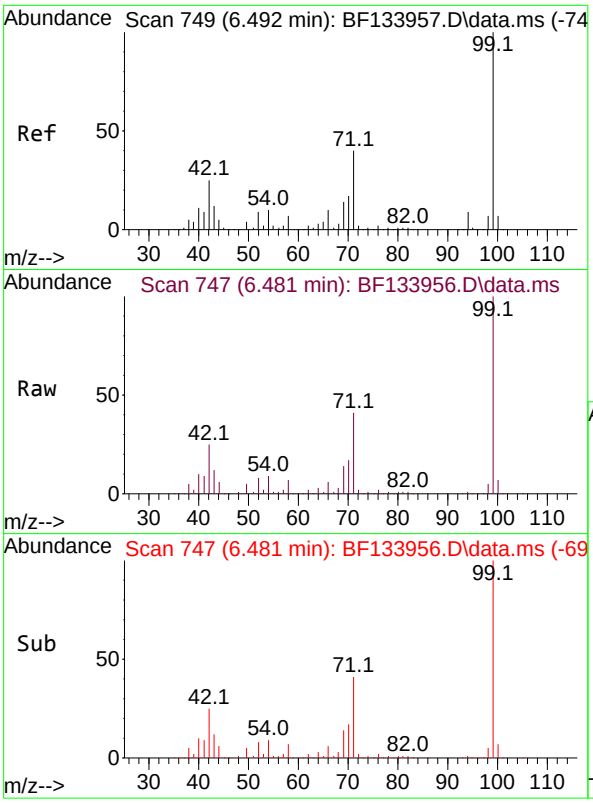


#6
Aniline
Concen: 21.868 ng
RT: 6.516 min Scan# 753
Delta R.T. -0.006 min
Lab File: BF133956.D
Acq: 26 Jun 2023 17:02

Tgt Ion: 93 Resp: 232721

Ion	Ratio	Lower	Upper
93	100		
66	42.5	34.5	51.7
65	21.4	17.8	26.6

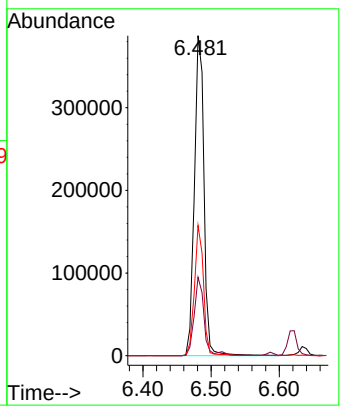




#7
Phenol-d6
Concen: 43.203 ng
RT: 6.481 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF133956.D
Acq: 26 Jun 2023 17:02

Tgt Ion: 99 Resp: 37783

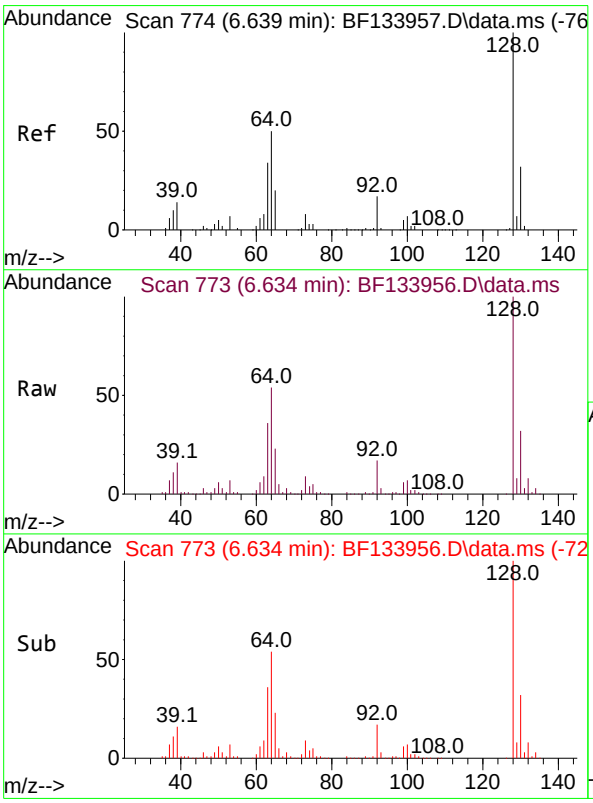
Ion	Ratio	Lower	Upper
99	100		
42	24.5	19.8	29.6
71	40.7	31.9	47.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

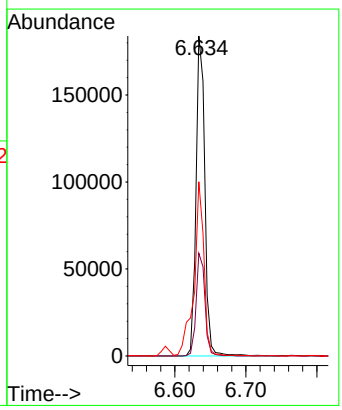
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

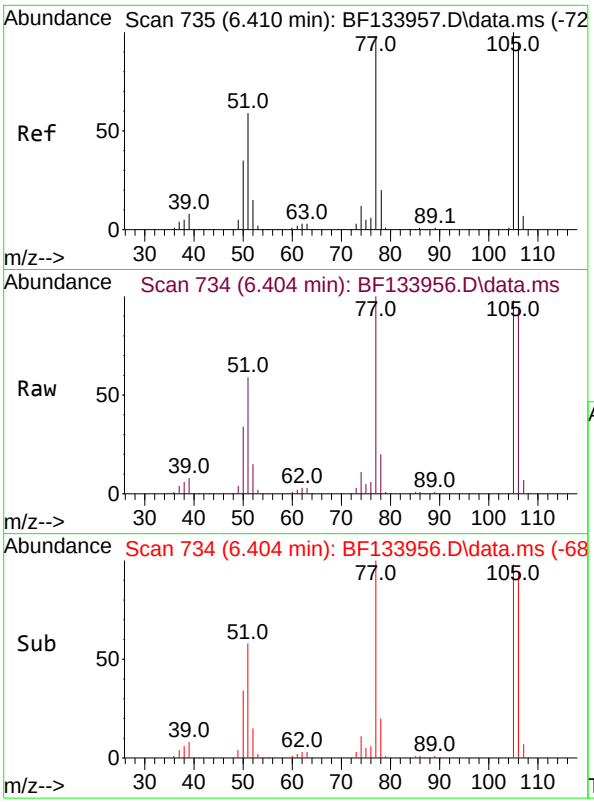


#8
2-Chlorophenol
Concen: 21.980 ng
RT: 6.634 min Scan# 773
Delta R.T. -0.006 min
Lab File: BF133956.D
Acq: 26 Jun 2023 17:02

Tgt Ion:128 Resp: 158671

Ion	Ratio	Lower	Upper
128	100		
130	32.1	11.7	51.7
64	54.5	31.3	71.3

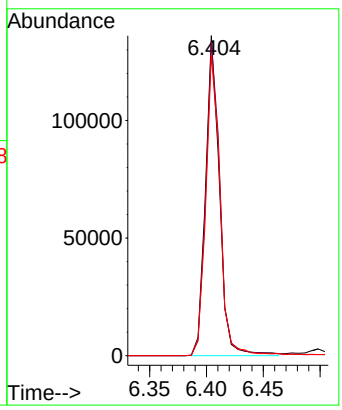




#9
Benzaldehyde
Concen: 21.107 ng
RT: 6.404 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF133956.D
Acq: 26 Jun 2023 17:02

Tgt Ion: 77 Resp: 11551

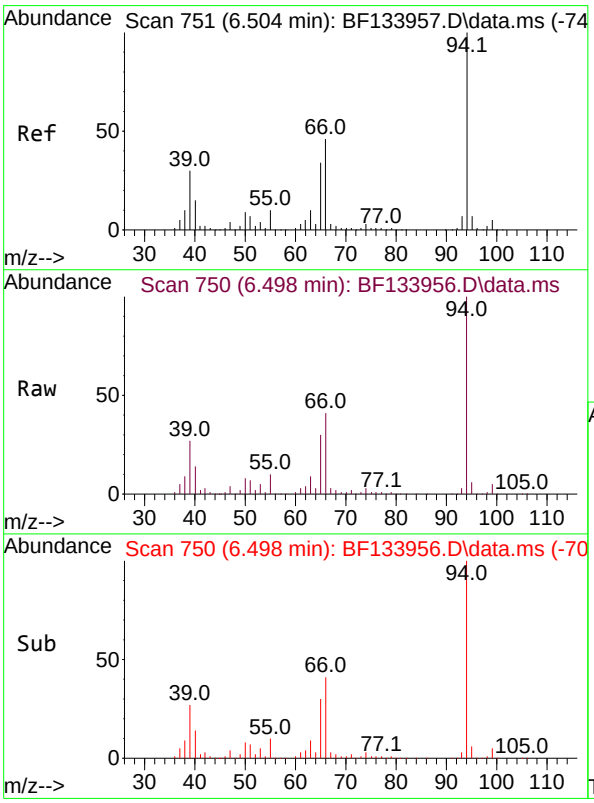
Ion	Ratio	Lower	Upper
77	100		
105	98.0	82.0	122.0
106	93.9	76.9	116.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

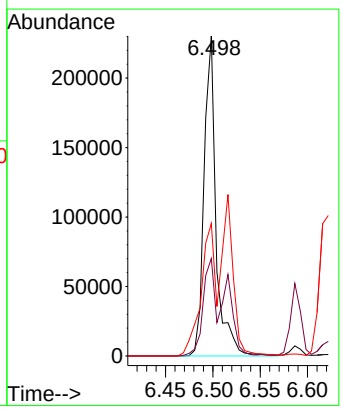
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

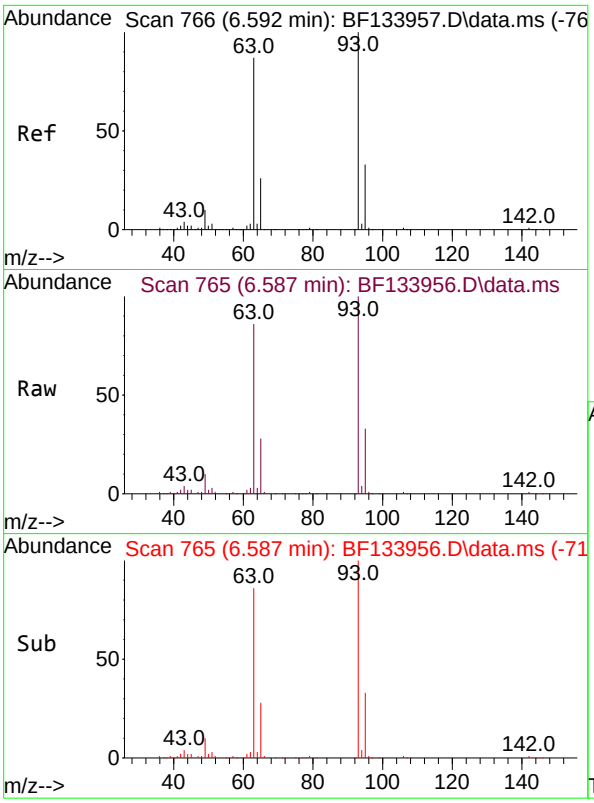


#10
Phenol
Concen: 22.064 ng
RT: 6.498 min Scan# 750
Delta R.T. -0.006 min
Lab File: BF133956.D
Acq: 26 Jun 2023 17:02

Tgt Ion: 94 Resp: 202887

Ion	Ratio	Lower	Upper
94	100		
65	30.4	14.2	54.2
66	41.4	26.4	66.4

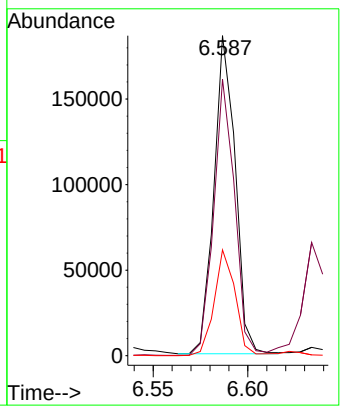




#11
bis(2-Chloroethyl)ether
Concen: 21.503 ng
RT: 6.587 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF133956.D
Acq: 26 Jun 2023 17:02

Tgt Ion: 93 Resp: 14556

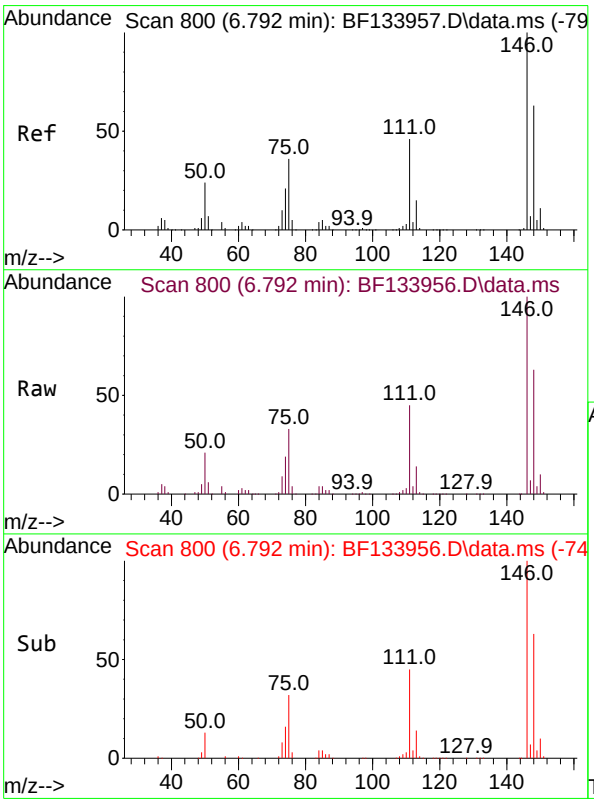
Ion	Ratio	Lower	Upper
93	100		
63	86.4	66.5	106.5
95	33.1	12.9	52.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

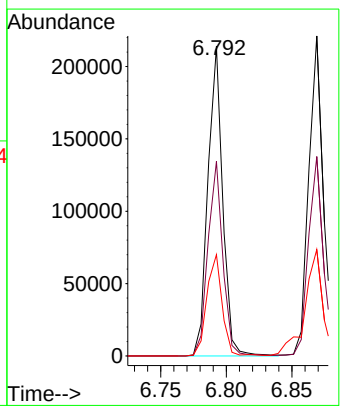
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

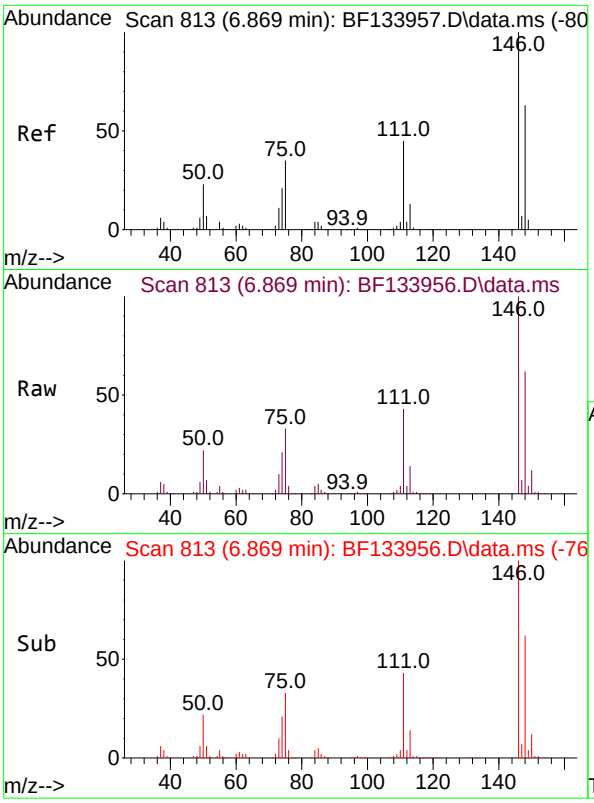


#12
1,3-Dichlorobenzene
Concen: 21.839 ng
RT: 6.792 min Scan# 800
Delta R.T. 0.000 min
Lab File: BF133956.D
Acq: 26 Jun 2023 17:02

Tgt Ion:146 Resp: 168075

Ion	Ratio	Lower	Upper
146	100		
148	62.8	50.5	75.7
75	32.7	29.0	43.6

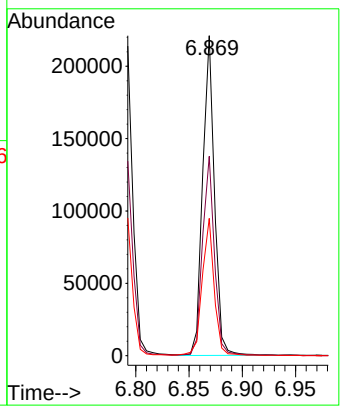




#13
1,4-Dichlorobenzene
Concen: 21.897 ng
RT: 6.869 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF133956.D
Acq: 26 Jun 2023 17:02

Tgt Ion:146 Resp: 17021

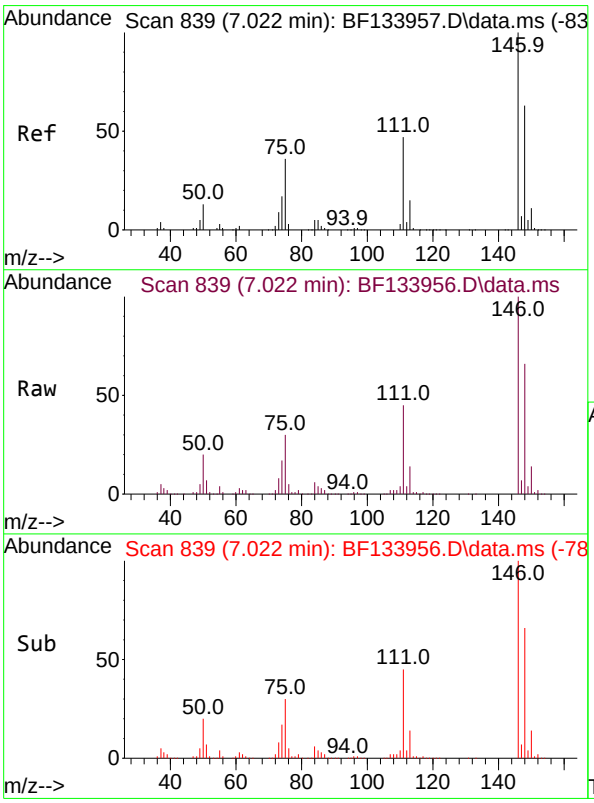
Ion	Ratio	Lower	Upper
146	100		
148	62.3	50.2	75.2
111	42.9	35.8	53.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

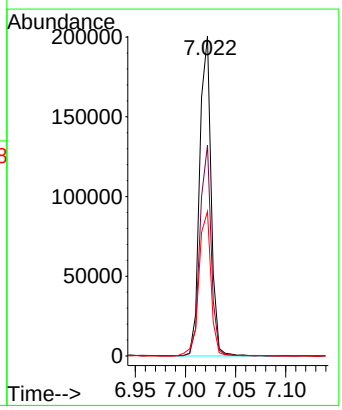
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

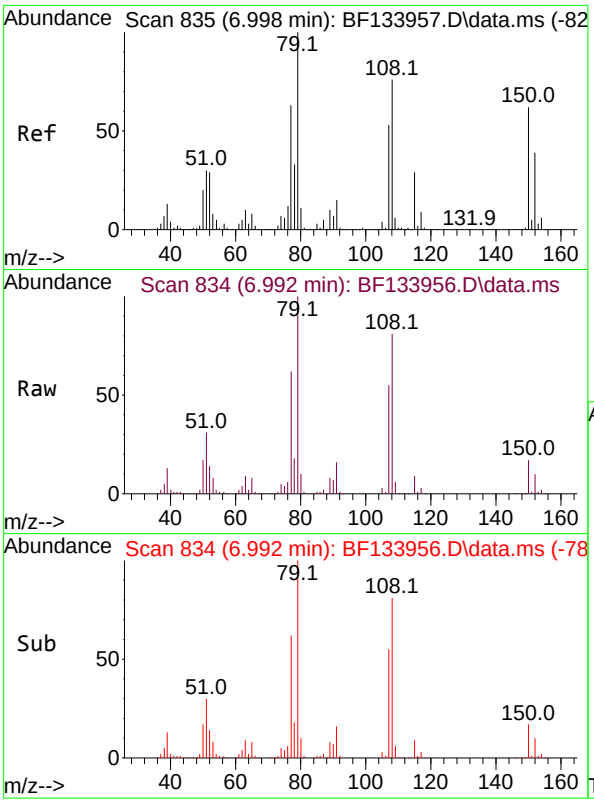


#14
1,2-Dichlorobenzene
Concen: 21.919 ng
RT: 7.022 min Scan# 839
Delta R.T. 0.000 min
Lab File: BF133956.D
Acq: 26 Jun 2023 17:02

Tgt Ion:146 Resp: 159570

Ion	Ratio	Lower	Upper
146	100		
148	65.9	50.6	76.0
111	45.2	38.0	57.0





#15
Benzyl Alcohol
Concen: 22.063 ng
RT: 6.992 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF133956.D
Acq: 26 Jun 2023 17:02

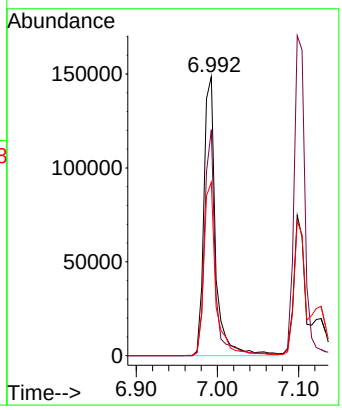
Tgt Ion: 79 Resp: 14874

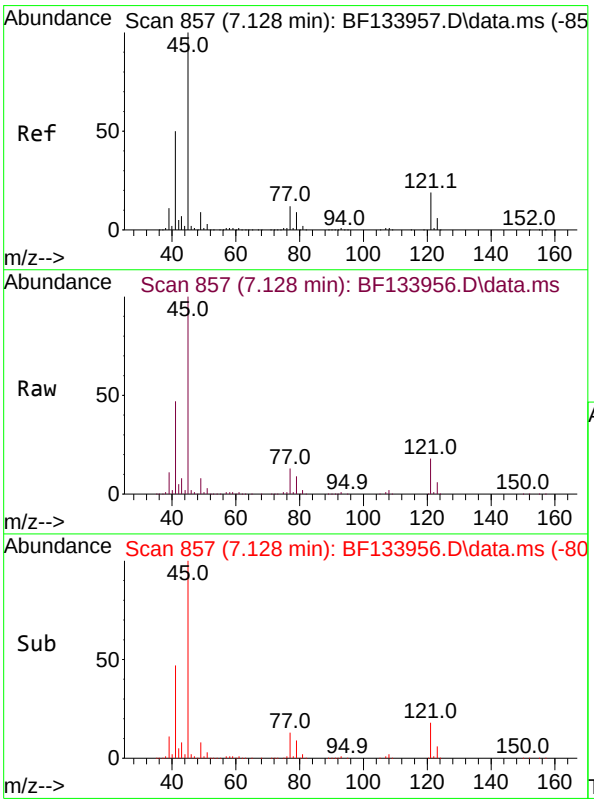
Ion	Ratio	Lower	Upper
79	100		
108	80.9	60.7	91.1
77	62.1	50.6	75.8

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

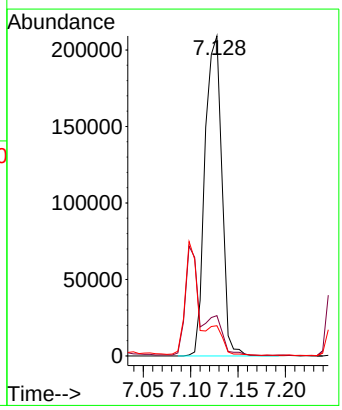


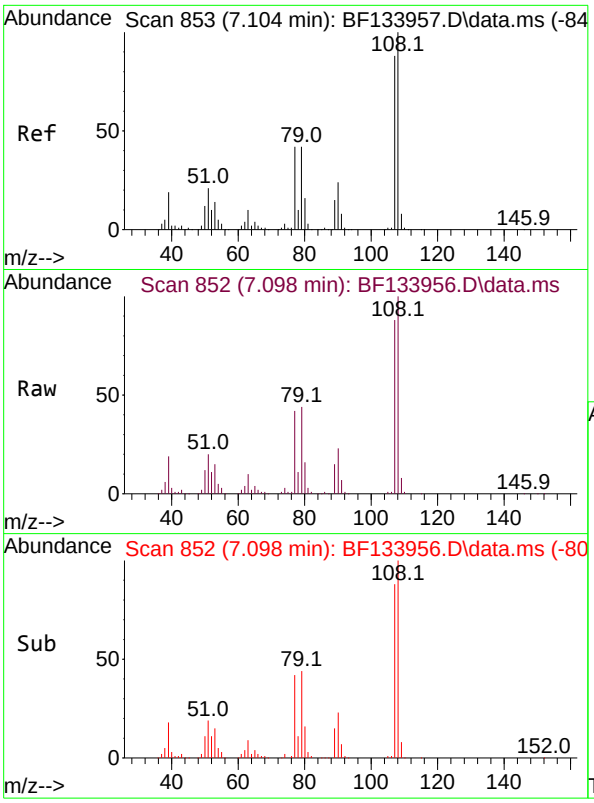


#16
2,2'-oxybis(1-Chloropropane)
Concen: 21.457 ng
RT: 7.128 min Scan# 857
Delta R.T. 0.000 min
Lab File: BF133956.D
Acq: 26 Jun 2023 17:02

Tgt Ion: 45 Resp: 256973

Ion	Ratio	Lower	Upper
45	100		
77	12.6	0.0	32.9
79	9.4	0.0	29.5

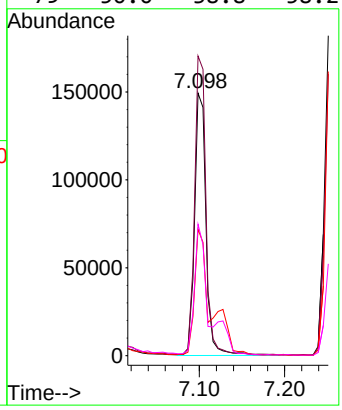




#17
2-Methylphenol
Concen: 21.620 ng
RT: 7.098 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF133956.D
Acq: 26 Jun 2023 17:02

Tgt Ion:107 Resp: 13975

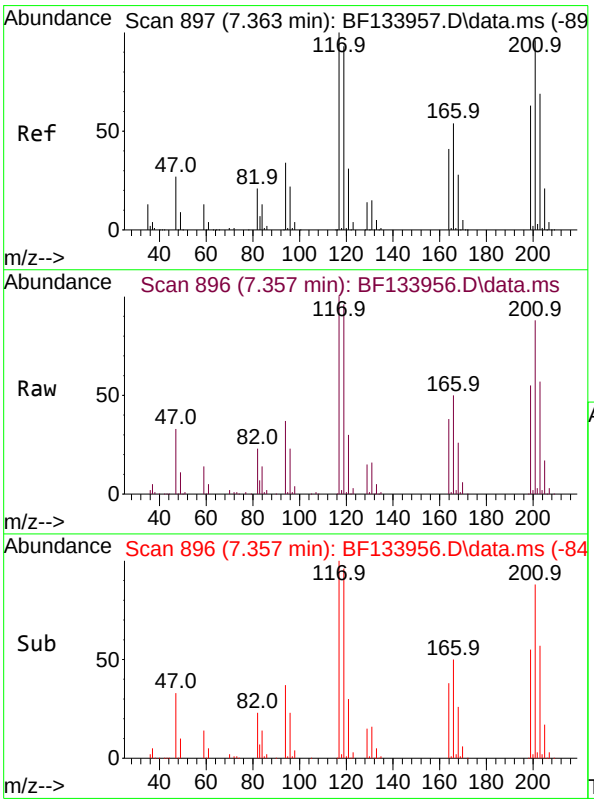
Ion	Ratio	Lower	Upper
107	100		
108	114.1	90.6	136.0
77	48.1	38.3	57.5
79	50.0	38.8	58.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

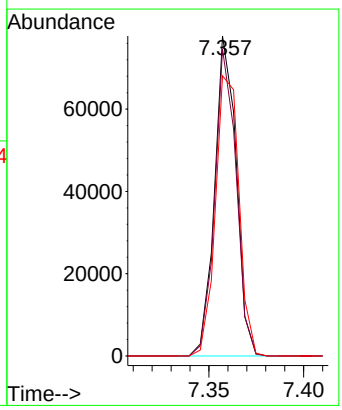
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

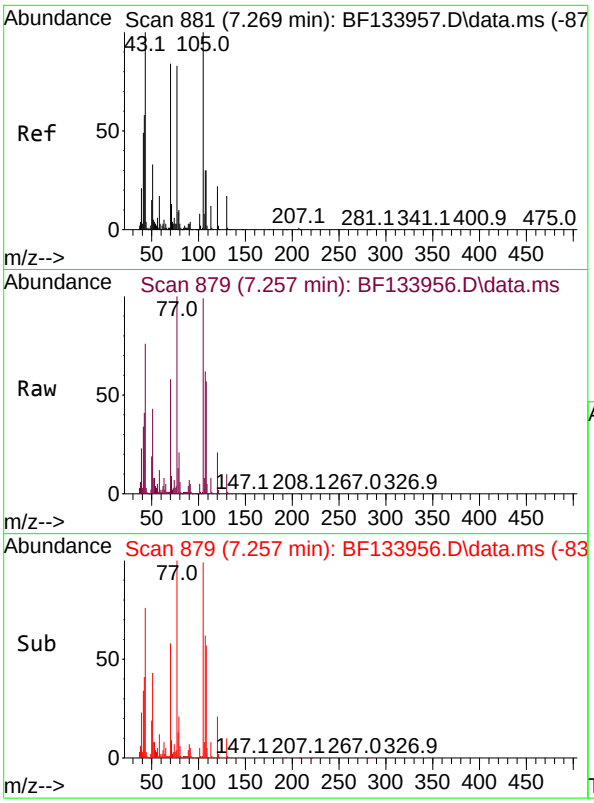


#18
Hexachloroethane
Concen: 21.442 ng
RT: 7.357 min Scan# 896
Delta R.T. -0.006 min
Lab File: BF133956.D
Acq: 26 Jun 2023 17:02

Tgt Ion:117 Resp: 61801

Ion	Ratio	Lower	Upper
117	100		
119	95.9	74.2	111.4
201	87.6	77.2	115.8

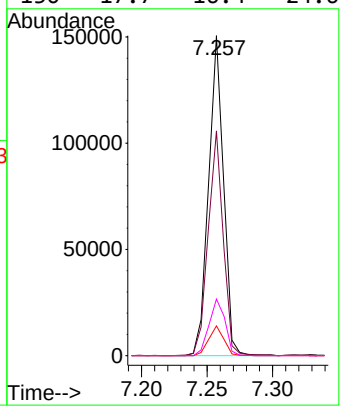




#19
n-Nitroso-di-n-propylamine
Concen: 21.599 ng
RT: 7.257 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF133956.D
Acq: 26 Jun 2023 17:02

Tgt Ion: 70 Resp: 11979

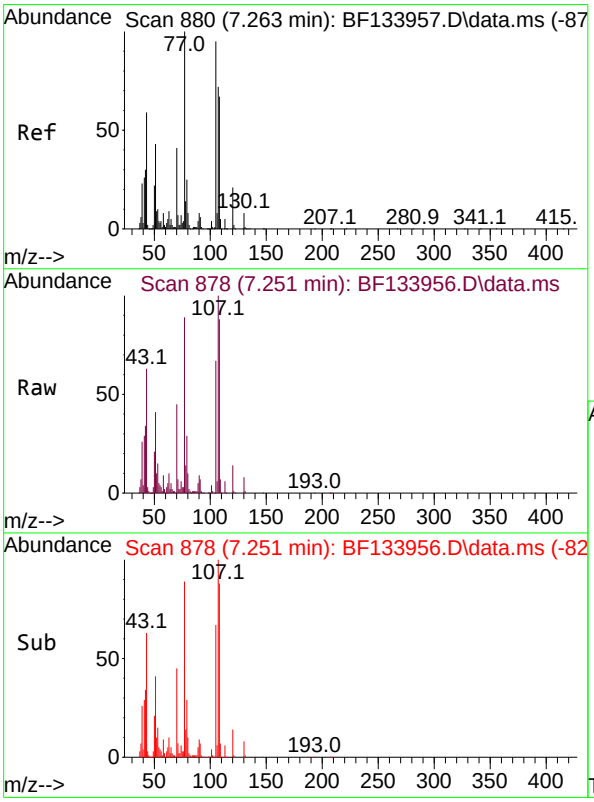
Ion	Ratio	Lower	Upper
70	100		
42	70.2	54.7	82.1
101	9.3	7.7	11.5
130	17.7	16.4	24.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

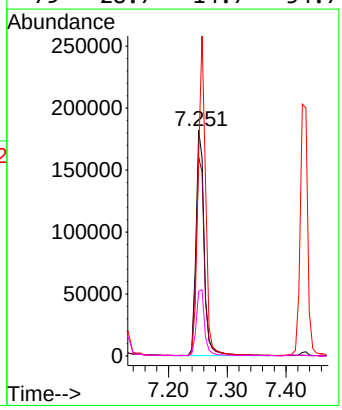
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

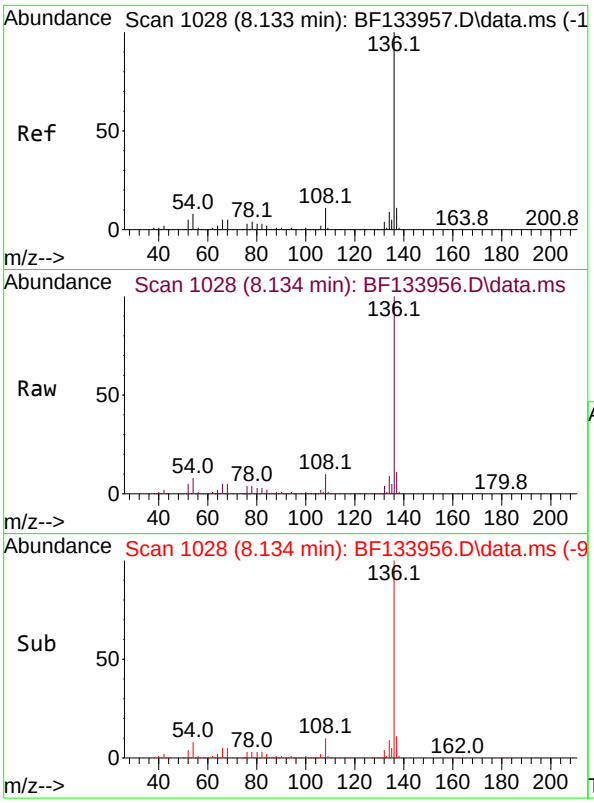


#20
3+4-Methylphenols
Concen: 22.450 ng
RT: 7.251 min Scan# 878
Delta R.T. -0.012 min
Lab File: BF133956.D
Acq: 26 Jun 2023 17:02

Tgt Ion:107 Resp: 176056

Ion	Ratio	Lower	Upper
107	100		
108	88.0	73.2	113.2
77	88.8	118.3	158.3#
79	28.7	14.7	54.7

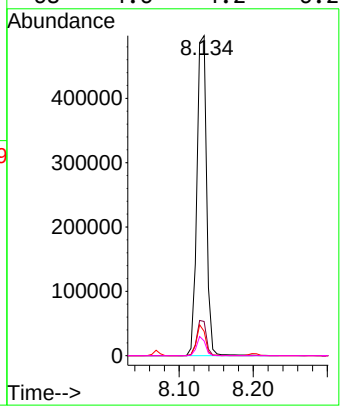




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.134 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF133956.D
Acq: 26 Jun 2023 17:02

Tgt Ion:136 Resp: 44757

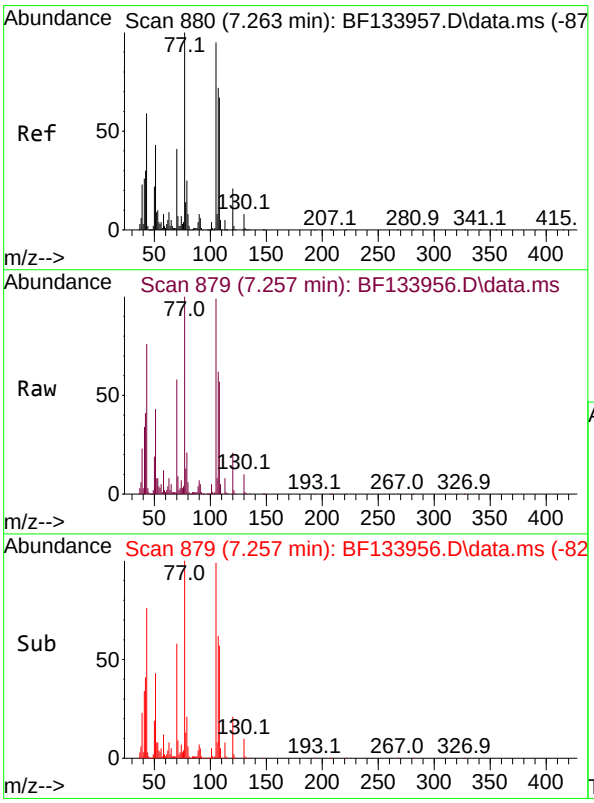
Ion	Ratio	Lower	Upper
136	100		
137	10.7	8.6	12.8
54	7.6	6.5	9.7
68	4.6	4.2	6.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

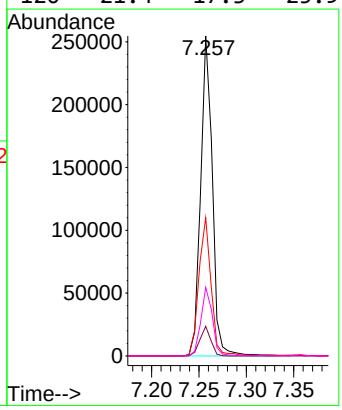
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

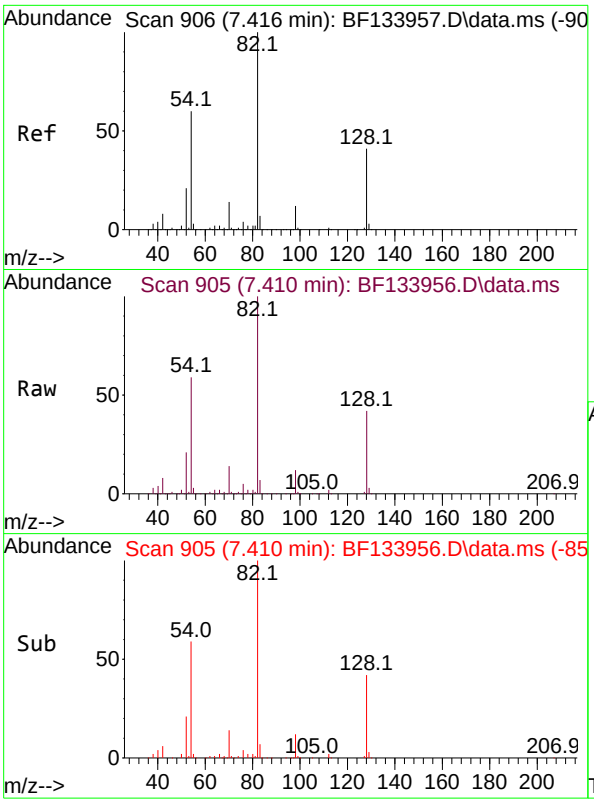


#22
Acetophenone
Concen: 21.485 ng
RT: 7.257 min Scan# 879
Delta R.T. -0.006 min
Lab File: BF133956.D
Acq: 26 Jun 2023 17:02

Tgt Ion:105 Resp: 218696

Ion	Ratio	Lower	Upper
105	100		
71	9.3	5.5	8.3#
51	43.2	36.5	54.7
120	21.4	17.3	25.9





#23
Nitrobenzene-d5
Concen: 42.341 ng
RT: 7.410 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF133956.D
Acq: 26 Jun 2023 17:02

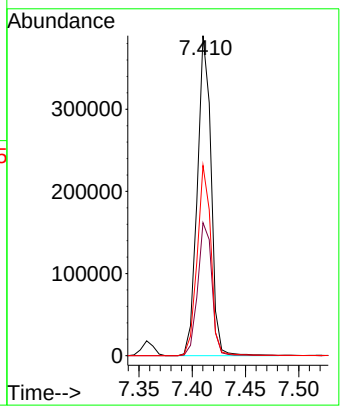
Tgt Ion: 82 Resp: 35156

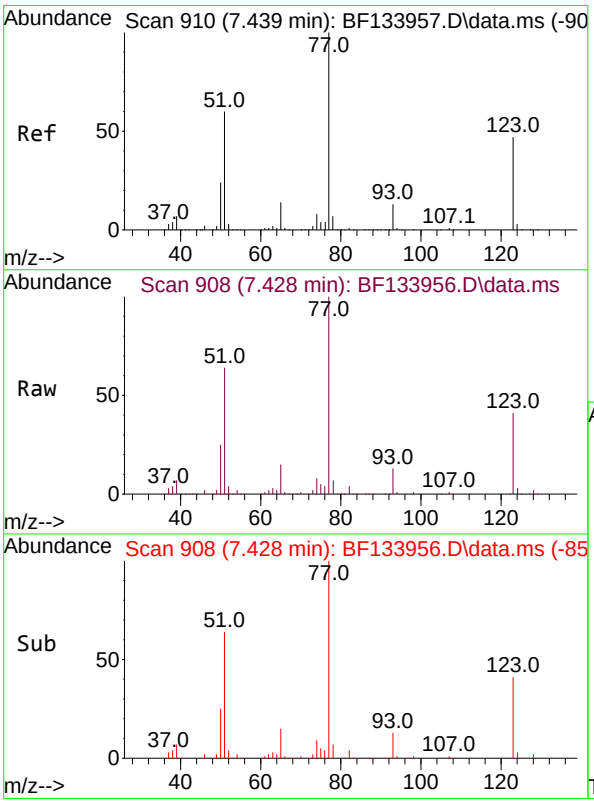
Ion	Ratio	Lower	Upper
82	100		
128	41.6	32.5	48.7
54	59.5	48.2	72.2

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

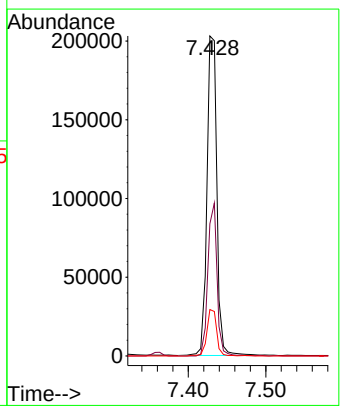


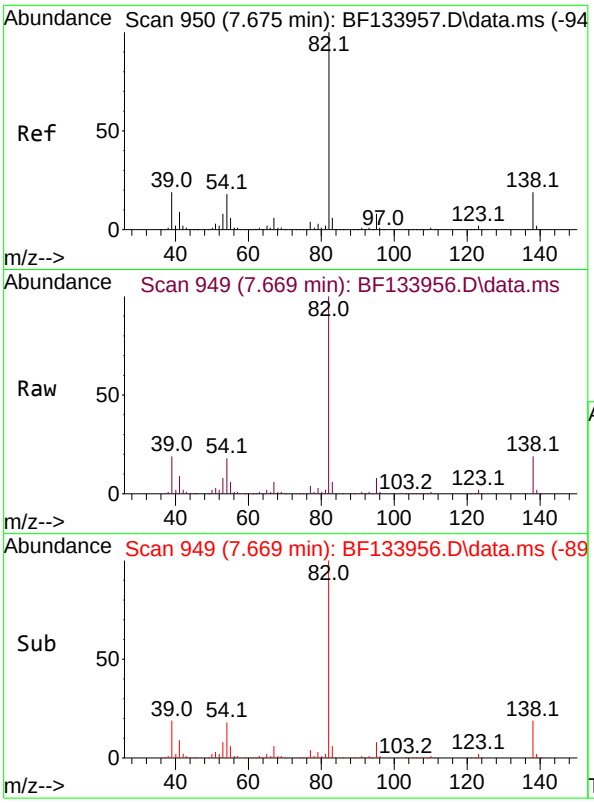


#24
Nitrobenzene
Concen: 21.406 ng
RT: 7.428 min Scan# 908
Delta R.T. -0.012 min
Lab File: BF133956.D
Acq: 26 Jun 2023 17:02

Tgt Ion: 77 Resp: 179609

Ion	Ratio	Lower	Upper
77	100		
123	41.3	37.8	56.6
65	14.5	11.3	16.9

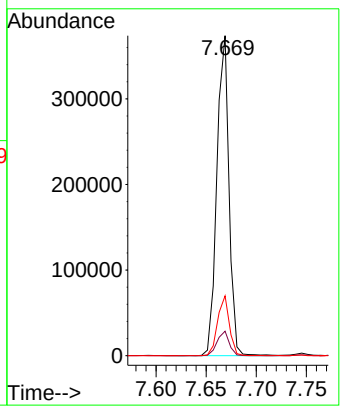




#25
Isophorone
Concen: 20.803 ng
RT: 7.669 min Scan# 94
Delta R.T. -0.006 min
Lab File: BF133956.D
Acq: 26 Jun 2023 17:02

Tgt Ion: 82 Resp: 31392

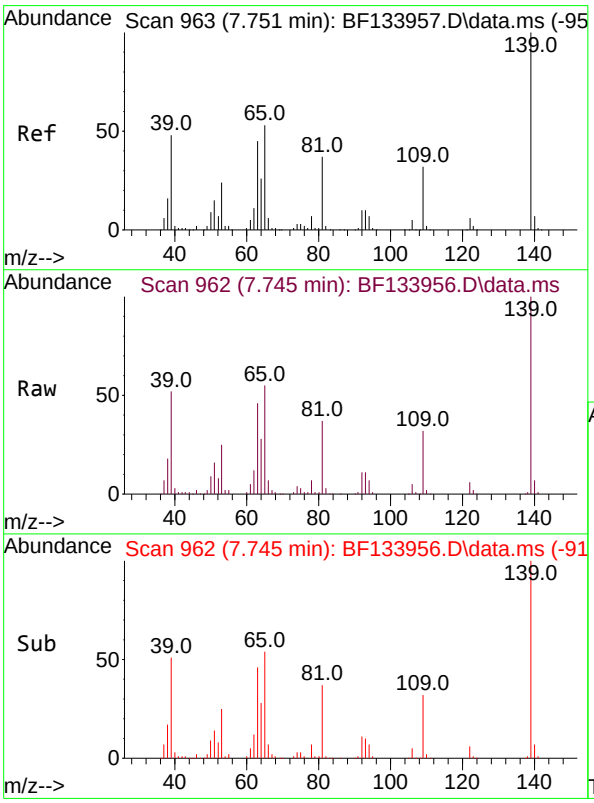
Ion	Ratio	Lower	Upper
82	100		
95	7.6	6.1	9.1
138	18.7	15.2	22.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

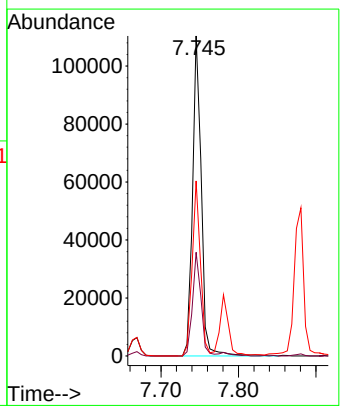
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

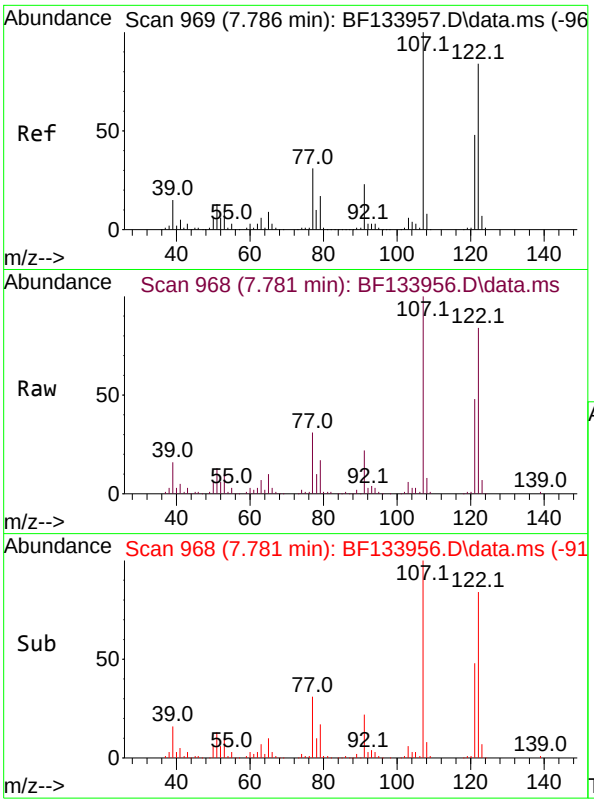


#26
2-Nitrophenol
Concen: 21.477 ng
RT: 7.745 min Scan# 962
Delta R.T. -0.006 min
Lab File: BF133956.D
Acq: 26 Jun 2023 17:02

Tgt Ion:139 Resp: 86446

Ion	Ratio	Lower	Upper
139	100		
109	32.4	25.8	38.8
65	54.7	42.4	63.6

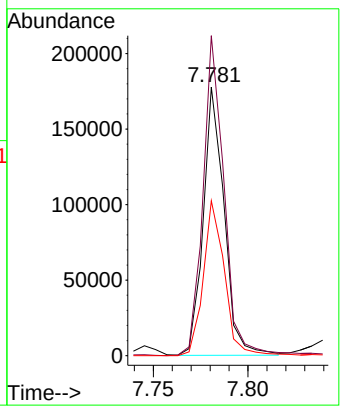




#27
2,4-Dimethylphenol
Concen: 21.429 ng
RT: 7.781 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF133956.D
Acq: 26 Jun 2023 17:02

Tgt Ion:122 Resp: 13653

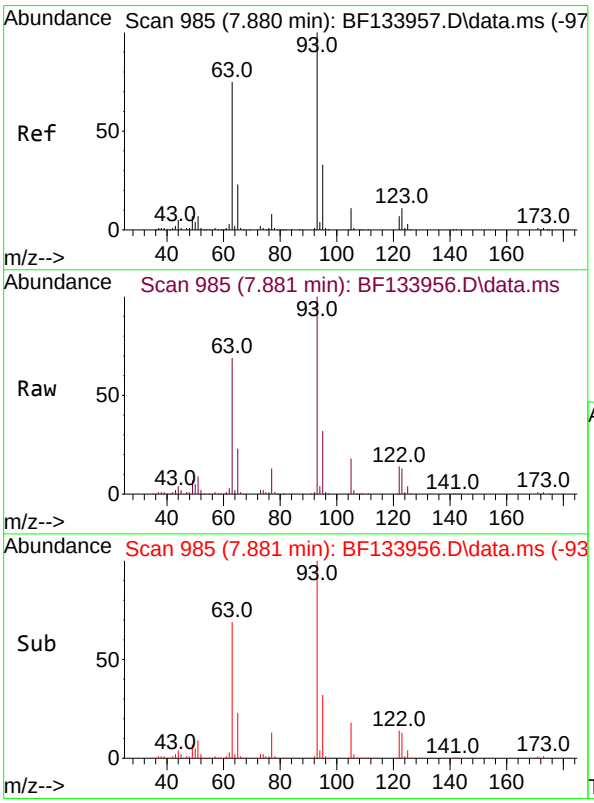
Ion	Ratio	Lower	Upper
122	100		
107	119.2	95.5	143.3
121	57.7	45.5	68.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

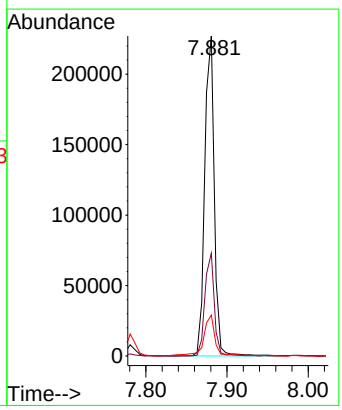
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

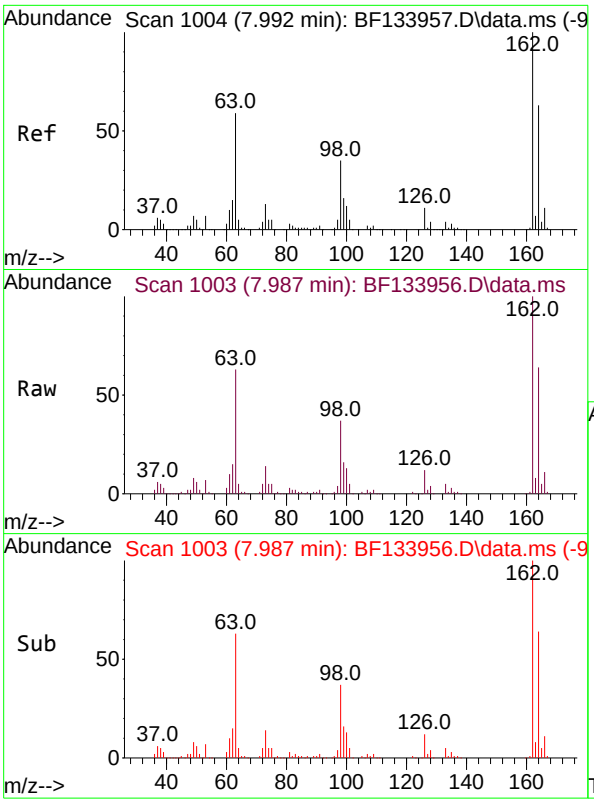


#28
bis(2-Chloroethoxy)methane
Concen: 21.210 ng
RT: 7.881 min Scan# 985
Delta R.T. 0.000 min
Lab File: BF133956.D
Acq: 26 Jun 2023 17:02

Tgt Ion: 93 Resp: 185323

Ion	Ratio	Lower	Upper
93	100		
95	32.1	26.5	39.7
123	12.8	9.1	13.7

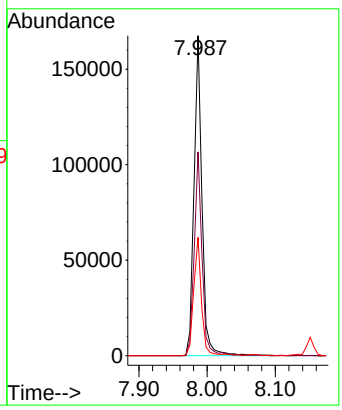




#29
2,4-Dichlorophenol
Concen: 21.506 ng
RT: 7.987 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF133956.D
Acq: 26 Jun 2023 17:02

Tgt Ion:162 Resp: 13587

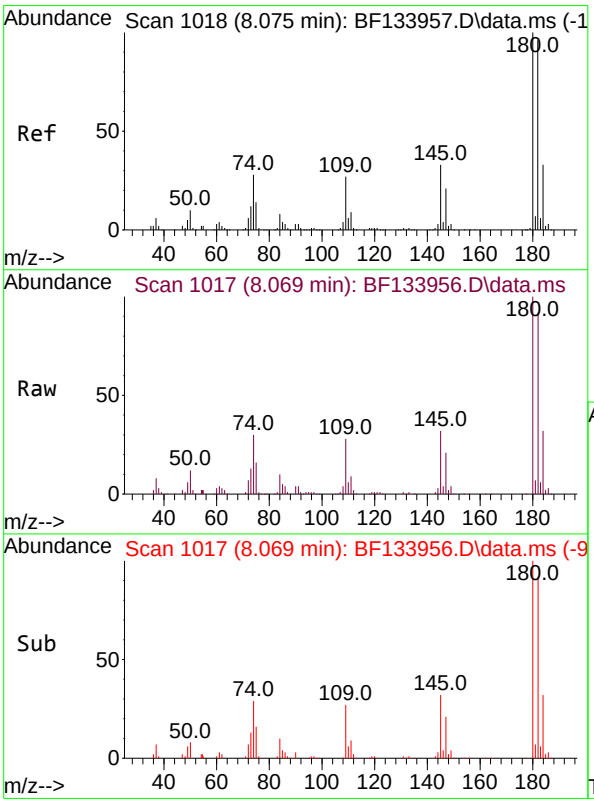
Ion	Ratio	Lower	Upper
162	100		
164	63.7	43.2	83.2
98	37.0	14.9	54.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

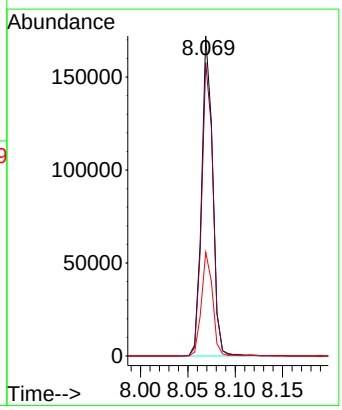
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

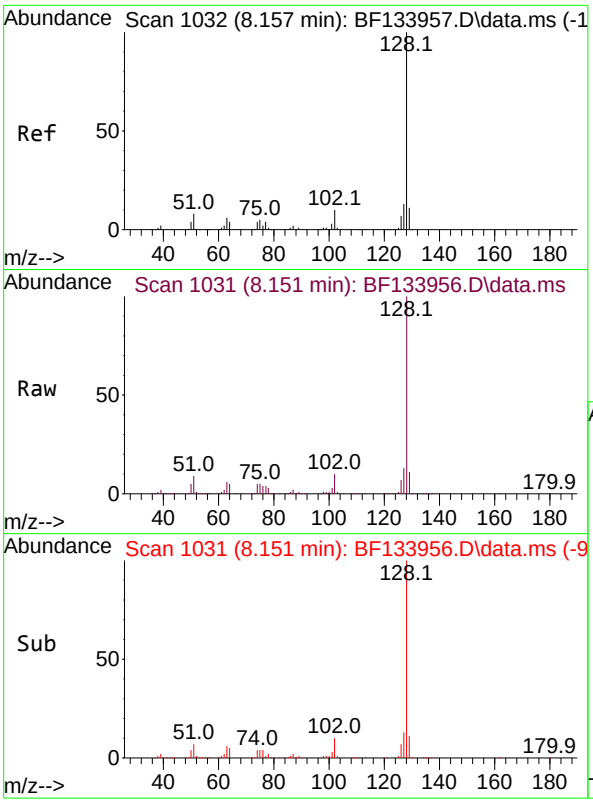


#30
1,2,4-Trichlorobenzene
Concen: 21.366 ng
RT: 8.069 min Scan# 1017
Delta R.T. -0.006 min
Lab File: BF133956.D
Acq: 26 Jun 2023 17:02

Tgt Ion:180 Resp: 139289

Ion	Ratio	Lower	Upper
180	100		
182	91.7	77.1	115.7
145	32.4	26.0	39.0

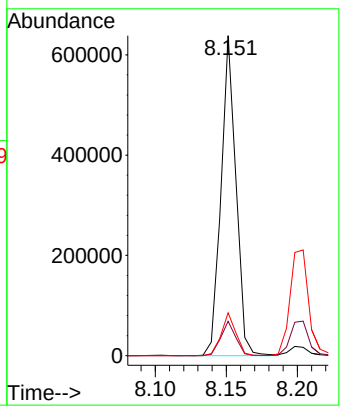




#31
Naphthalene
Concen: 21.544 ng
RT: 8.151 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF133956.D
Acq: 26 Jun 2023 17:02

Tgt Ion:128 Resp: 46575

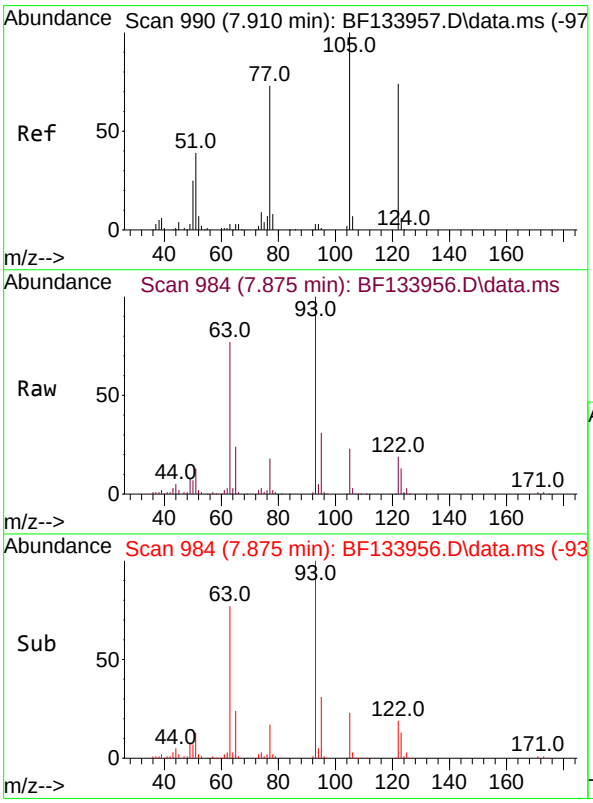
Ion	Ratio	Lower	Upper
128	100		
129	10.8	8.7	13.1
127	13.4	10.6	15.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

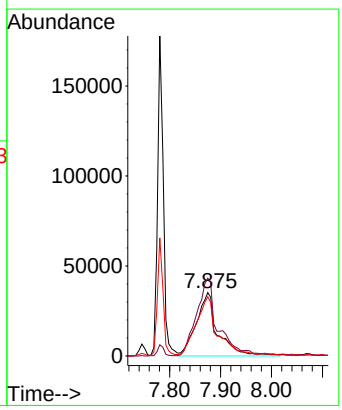
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

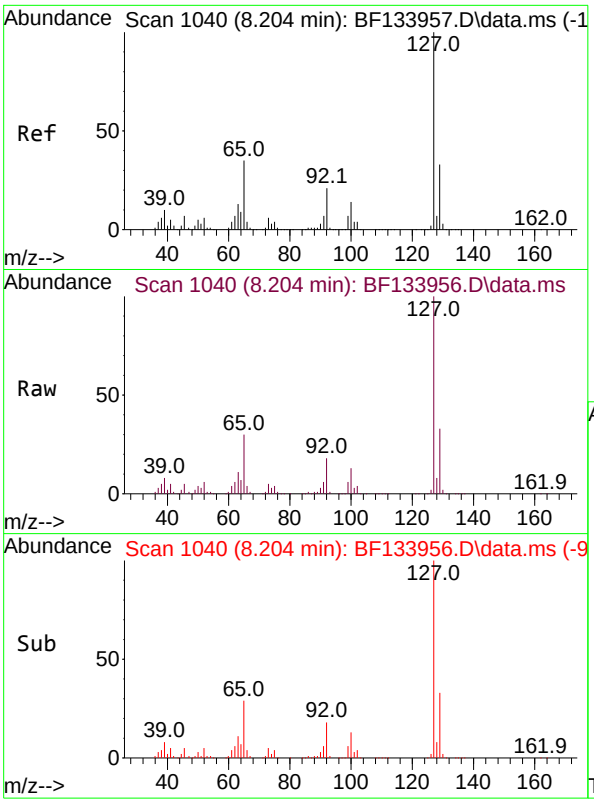


#32
Benzoic acid
Concen: 22.191 ng m
RT: 7.875 min Scan# 984
Delta R.T. -0.035 min
Lab File: BF133956.D
Acq: 26 Jun 2023 17:02

Tgt Ion:122 Resp: 103895

Ion	Ratio	Lower	Upper
122	100		
105	122.7	109.7	149.7
77	93.3	76.0	116.0

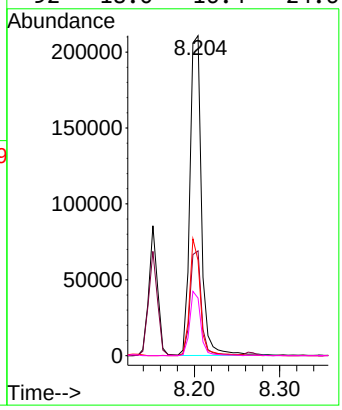




#33
4-Chloroaniline
Concen: 21.426 ng
RT: 8.204 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF133956.D
Acq: 26 Jun 2023 17:02

Tgt Ion:127 Resp: 19815

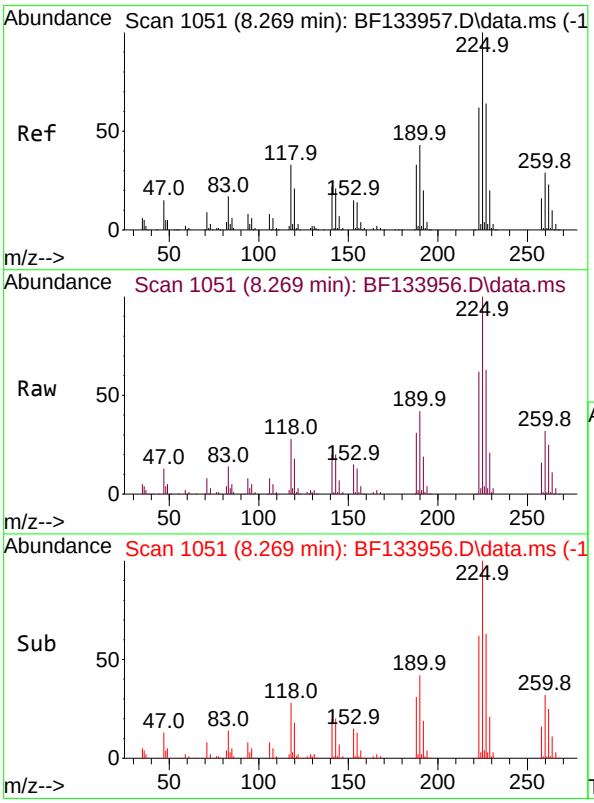
Ion	Ratio	Lower	Upper
127	100		
129	32.8	26.4	39.6
65	29.8	27.8	41.8
92	18.0	16.4	24.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

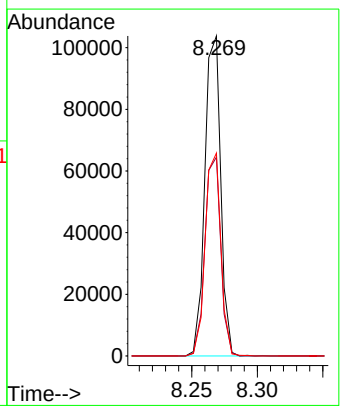
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

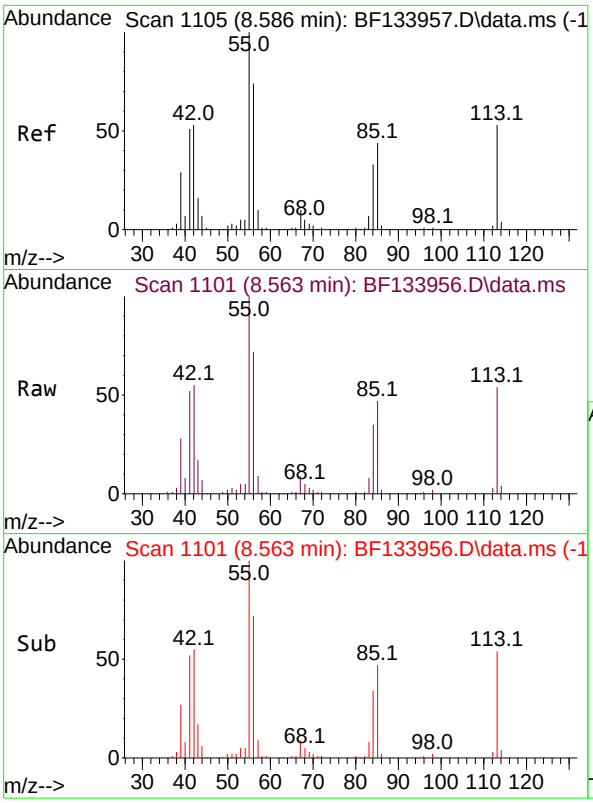


#34
Hexachlorobutadiene
Concen: 21.276 ng
RT: 8.269 min Scan# 1051
Delta R.T. 0.000 min
Lab File: BF133956.D
Acq: 26 Jun 2023 17:02

Tgt Ion:225 Resp: 87494

Ion	Ratio	Lower	Upper
225	100		
223	62.2	49.8	74.8
227	63.4	51.0	76.4

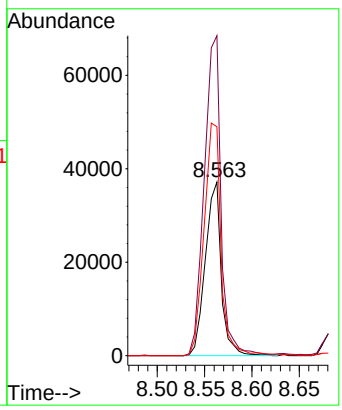




#35
Caprolactam
Concen: 20.848 ng
RT: 8.563 min Scan# 1
Delta R.T. -0.023 min
Lab File: BF133956.D
Acq: 26 Jun 2023 17:02

Tgt Ion:113 Resp: 4337

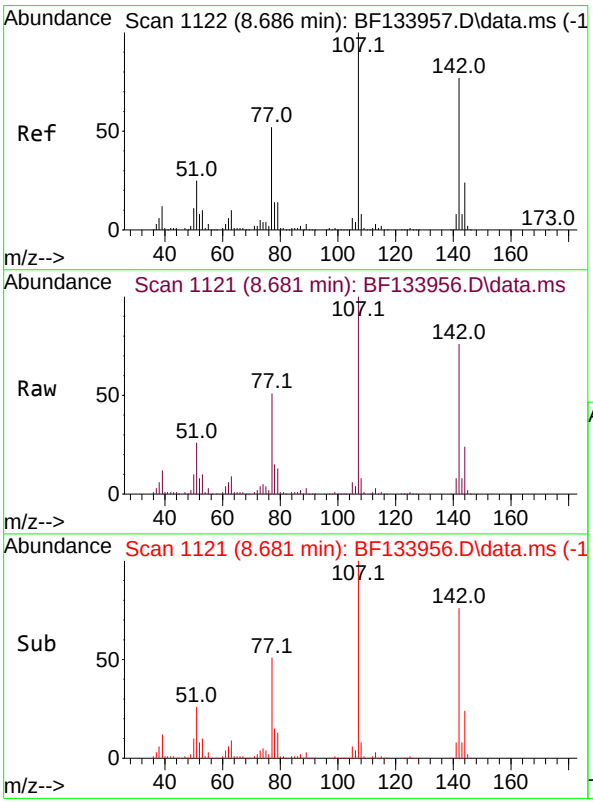
Ion	Ratio	Lower	Upper
113	100		
55	184.3	170.2	210.2
56	131.9	121.4	161.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

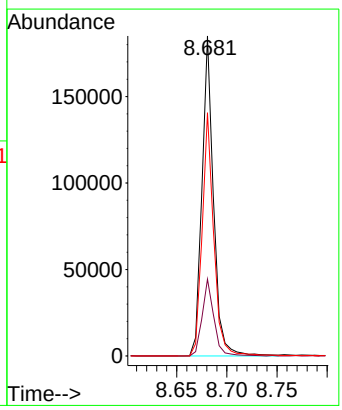
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

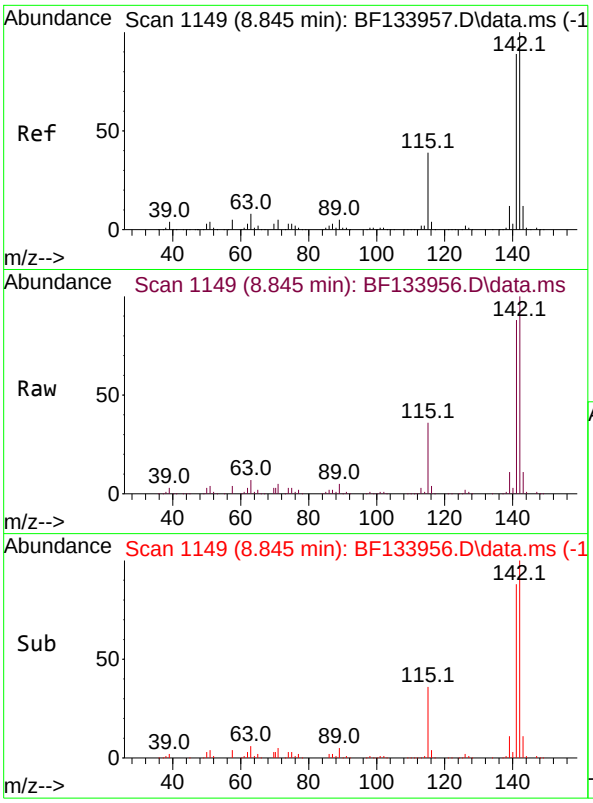


#36
4-Chloro-3-methylphenol
Concen: 21.014 ng
RT: 8.681 min Scan# 1121
Delta R.T. -0.006 min
Lab File: BF133956.D
Acq: 26 Jun 2023 17:02

Tgt Ion:107 Resp: 149145

Ion	Ratio	Lower	Upper
107	100		
144	24.0	19.6	29.4
142	76.0	61.4	92.2

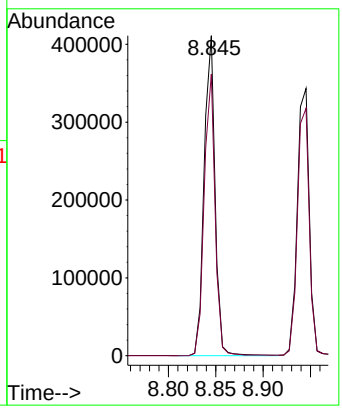




#37
2-Methylnaphthalene
Concen: 21.423 ng
RT: 8.845 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF133956.D
Acq: 26 Jun 2023 17:02

Tgt Ion:142 Resp: 32752

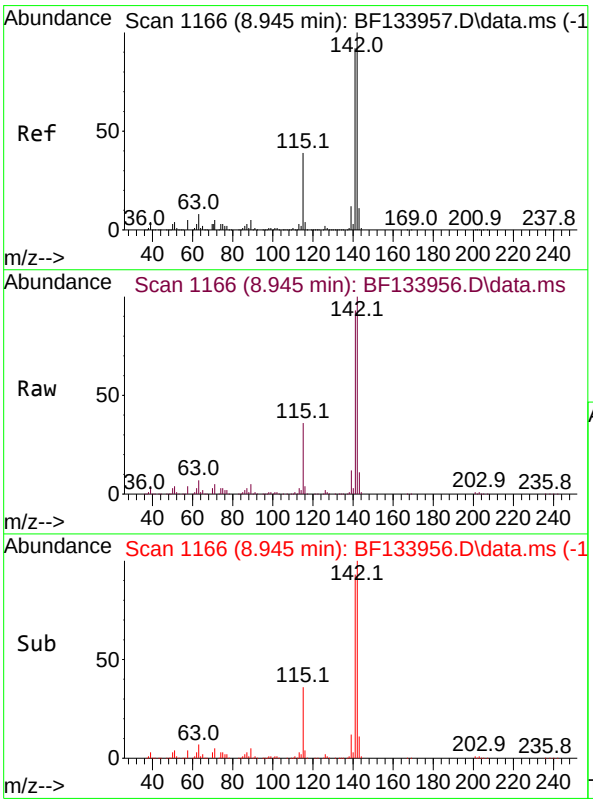
Ion	Ratio	Lower	Upper
142	100		
141	88.0	71.0	106.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

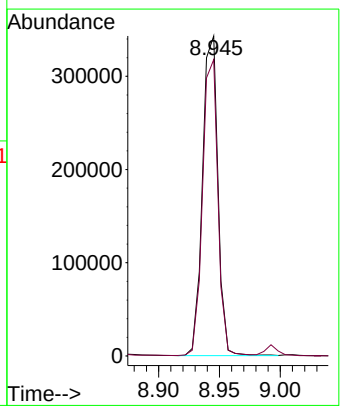
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

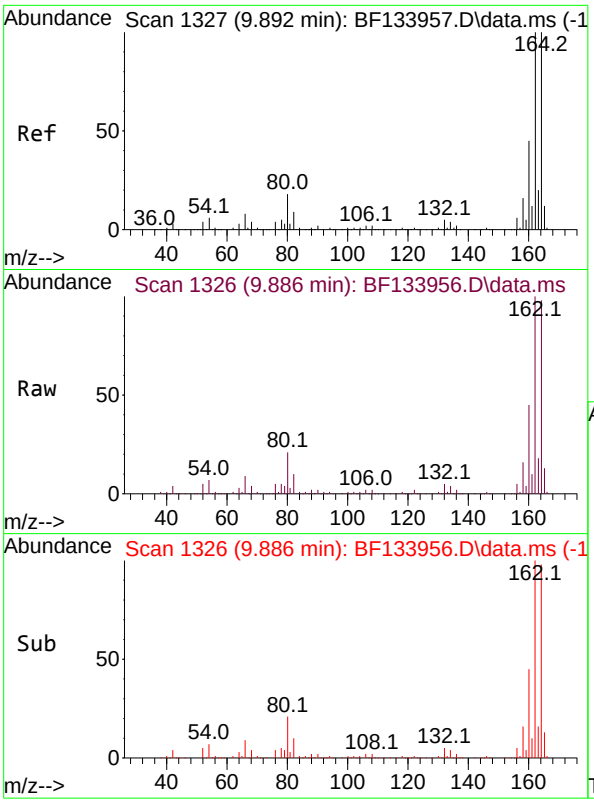


#38
1-Methylnaphthalene
Concen: 21.168 ng
RT: 8.945 min Scan# 1166
Delta R.T. 0.000 min
Lab File: BF133956.D
Acq: 26 Jun 2023 17:02

Tgt Ion:142 Resp: 300849

Ion	Ratio	Lower	Upper
142	100		
141	92.6	73.5	110.3

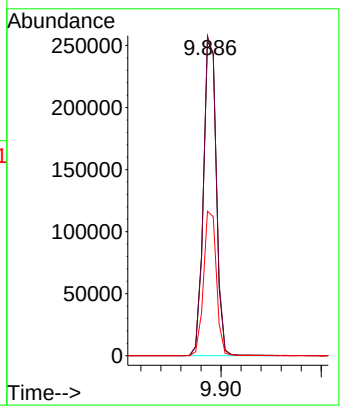




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.886 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF133956.D
Acq: 26 Jun 2023 17:02

Tgt Ion:164 Resp: 22901

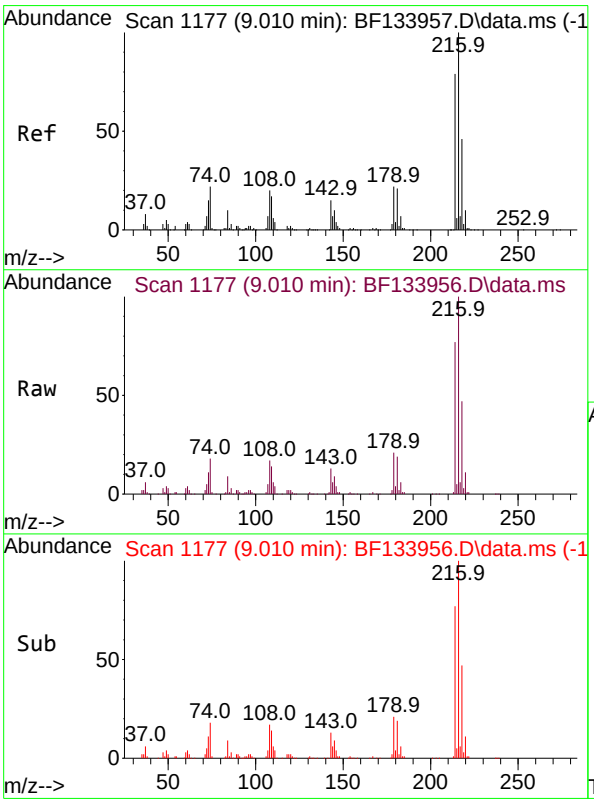
Ion	Ratio	Lower	Upper
164	100		
162	101.7	80.0	120.0
160	45.9	35.9	53.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

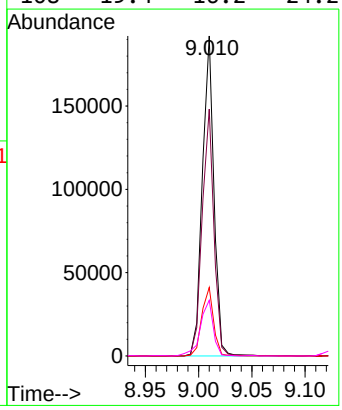
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

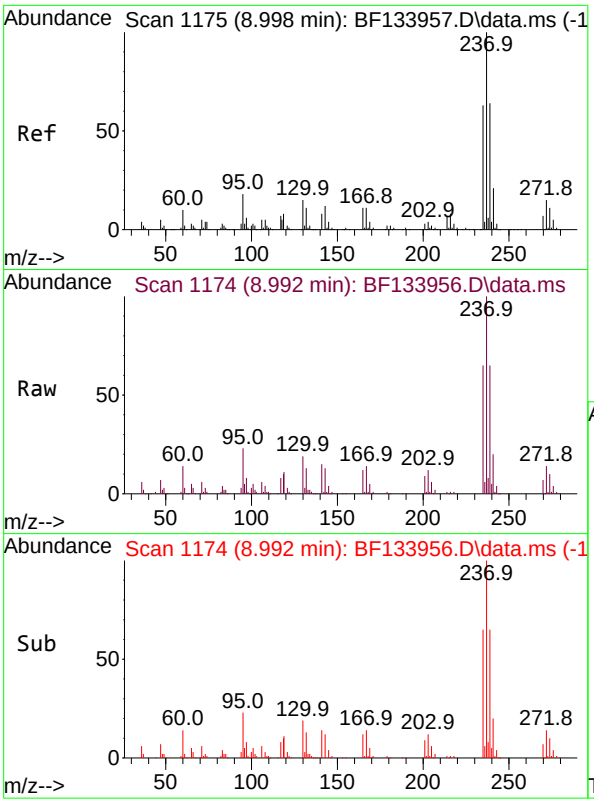


#40
1,2,4,5-Tetrachlorobenzene
Concen: 21.411 ng
RT: 9.010 min Scan# 1177
Delta R.T. 0.000 min
Lab File: BF133956.D
Acq: 26 Jun 2023 17:02

Tgt Ion:216 Resp: 145273

Ion	Ratio	Lower	Upper
216	100		
214	78.5	64.1	96.1
179	21.8	17.3	25.9
108	19.4	16.2	24.2





#41
Hexachlorocyclopentadiene
Concen: 18.803 ng
RT: 8.992 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF133956.D
Acq: 26 Jun 2023 17:02

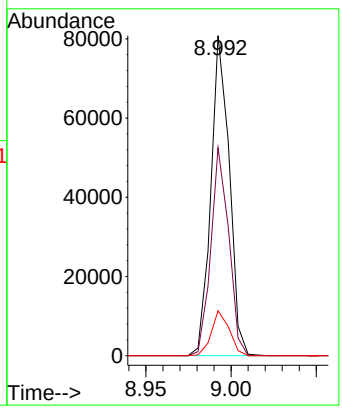
Tgt Ion:237 Resp: 6052

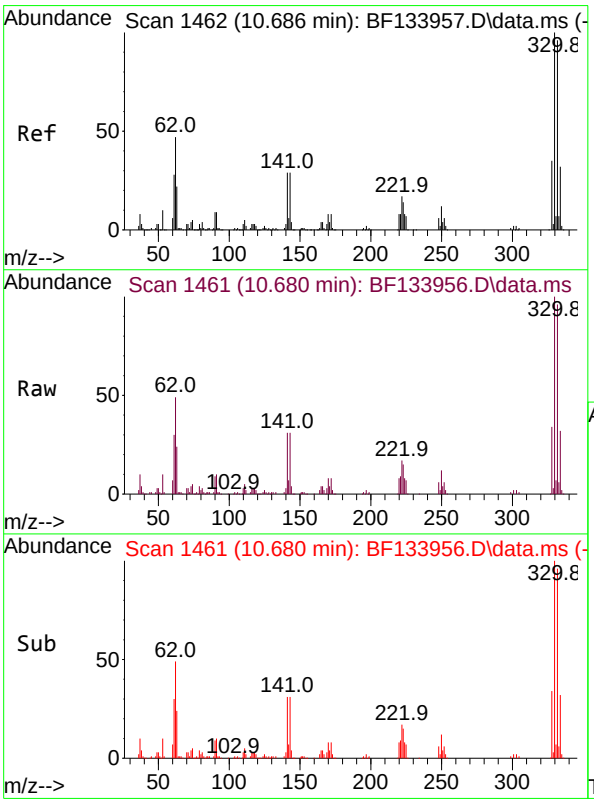
Ion	Ratio	Lower	Upper
237	100		
235	65.0	42.8	82.8
272	14.1	0.0	34.6

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

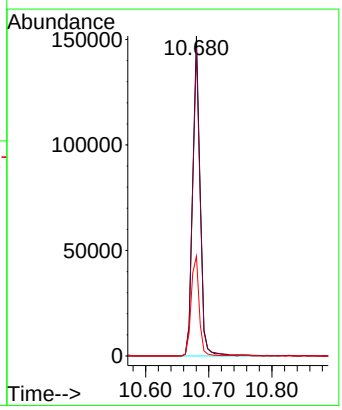


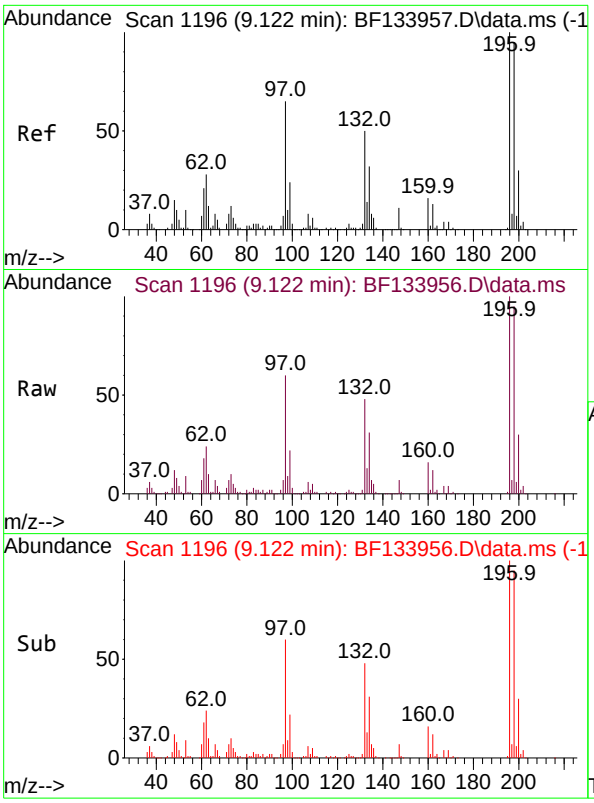


#42
2,4,6-Tribromophenol
Concen: 43.107 ng
RT: 10.680 min Scan# 1461
Delta R.T. -0.006 min
Lab File: BF133956.D
Acq: 26 Jun 2023 17:02

Tgt Ion:330 Resp: 123779

Ion	Ratio	Lower	Upper
330	100		
332	96.6	77.0	115.6
141	33.6	26.3	39.5

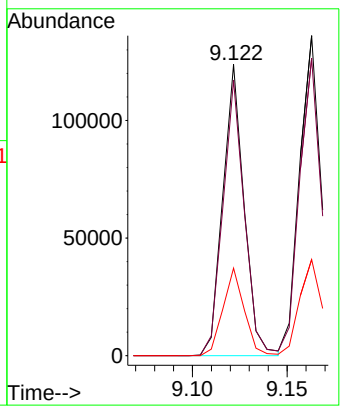




#43
2,4,6-Trichlorophenol
Concen: 20.952 ng
RT: 9.122 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF133956.D
Acq: 26 Jun 2023 17:02

Tgt Ion:196 Resp: 9677

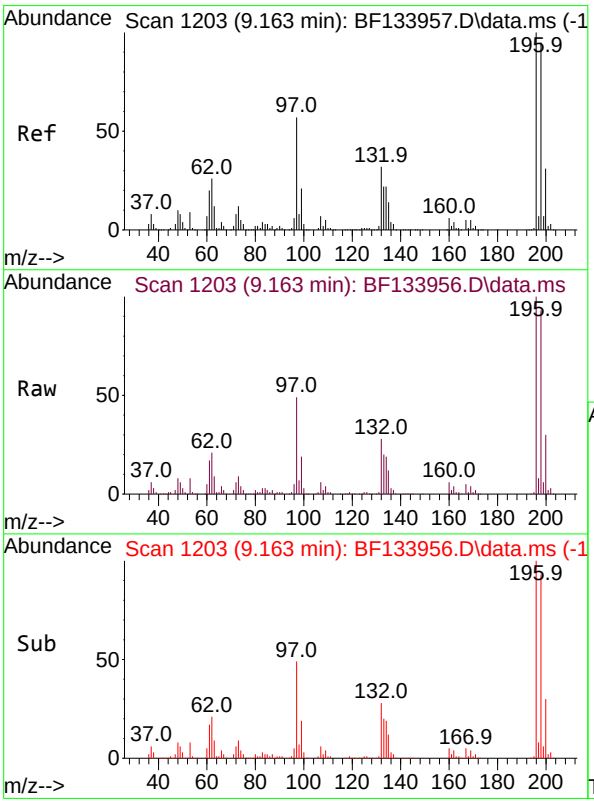
Ion	Ratio	Lower	Upper
196	100		
198	94.7	75.6	113.4
200	30.1	24.4	36.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

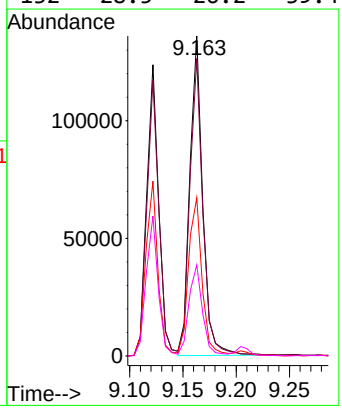
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

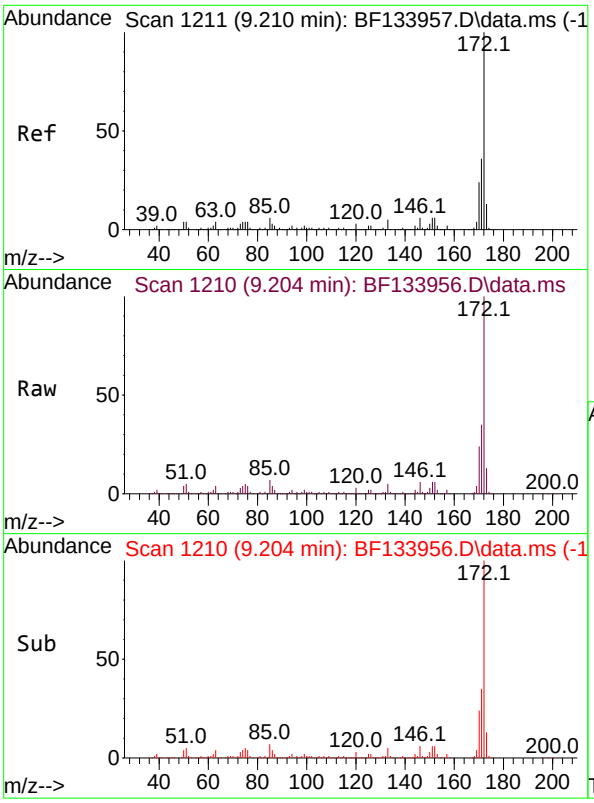


#44
2,4,5-Trichlorophenol
Concen: 21.070 ng
RT: 9.163 min Scan# 1203
Delta R.T. 0.000 min
Lab File: BF133956.D
Acq: 26 Jun 2023 17:02

Tgt Ion:196 Resp: 114474

Ion	Ratio	Lower	Upper
196	100		
198	93.0	75.7	113.5
97	49.4	45.8	68.6
132	28.5	26.2	39.4

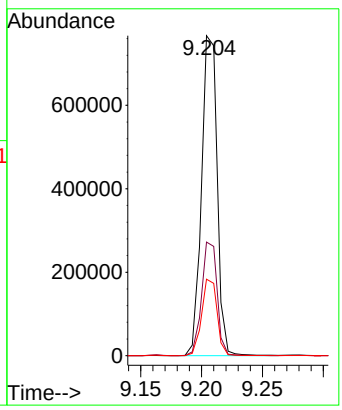




#45
2-Fluorobiphenyl
Concen: 43.650 ng
RT: 9.204 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF133956.D
Acq: 26 Jun 2023 17:02

Tgt Ion:172 Resp: 68757

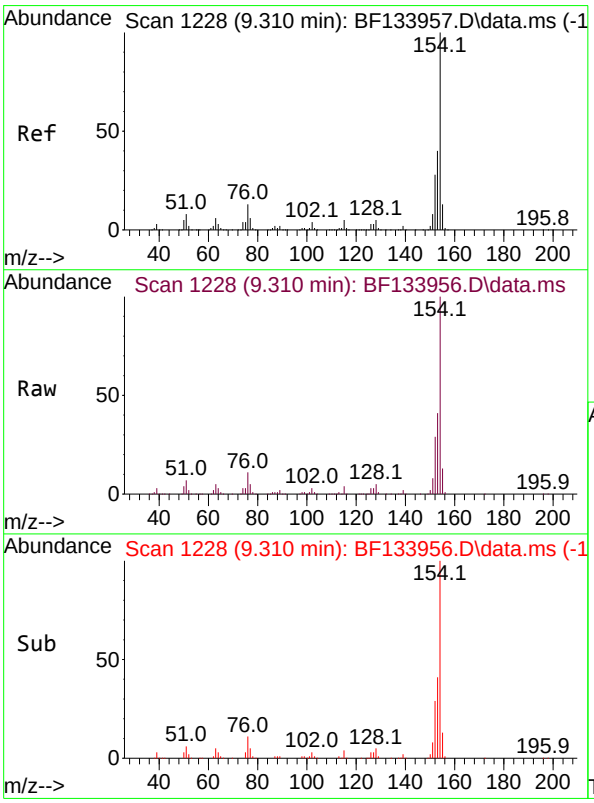
Ion	Ratio	Lower	Upper
172	100		
171	35.5	28.6	43.0
170	23.9	19.4	29.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

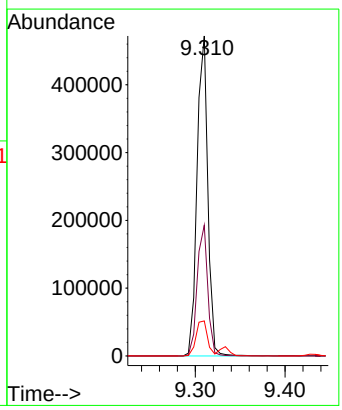
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

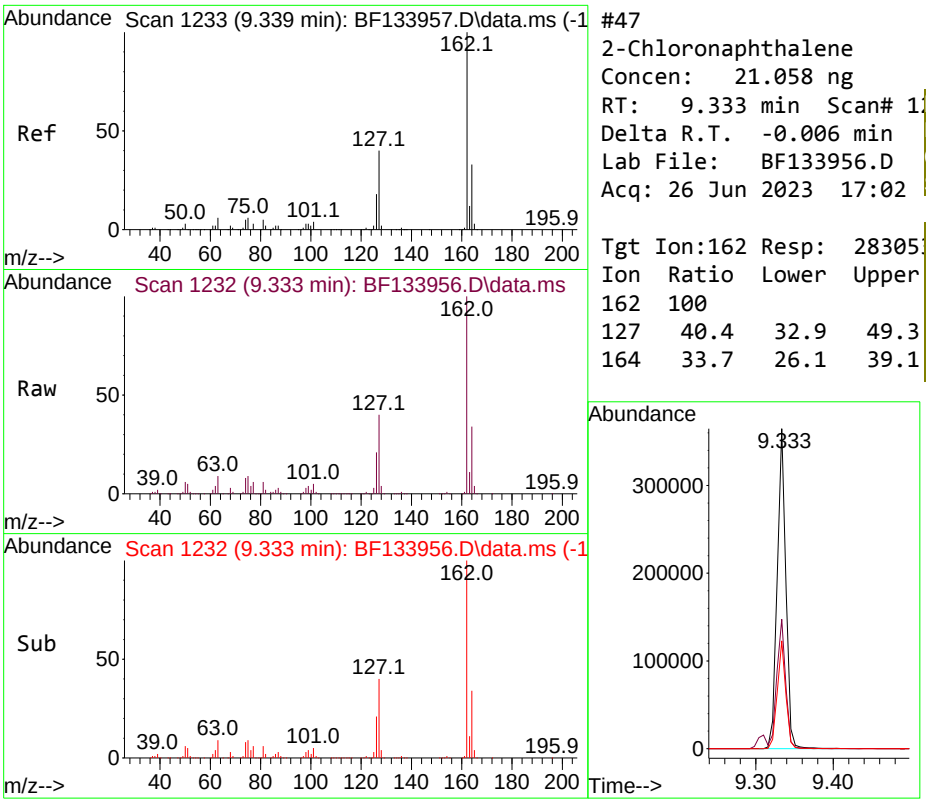


#46
1,1'-Biphenyl
Concen: 21.313 ng
RT: 9.310 min Scan# 1228
Delta R.T. 0.000 min
Lab File: BF133956.D
Acq: 26 Jun 2023 17:02

Tgt Ion:154 Resp: 391540

Ion	Ratio	Lower	Upper
154	100		
153	40.9	19.8	59.8
76	11.0	0.0	32.9





#47
2-Chloronaphthalene
Concen: 21.058 ng
RT: 9.333 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF133956.D
Acq: 26 Jun 2023 17:02

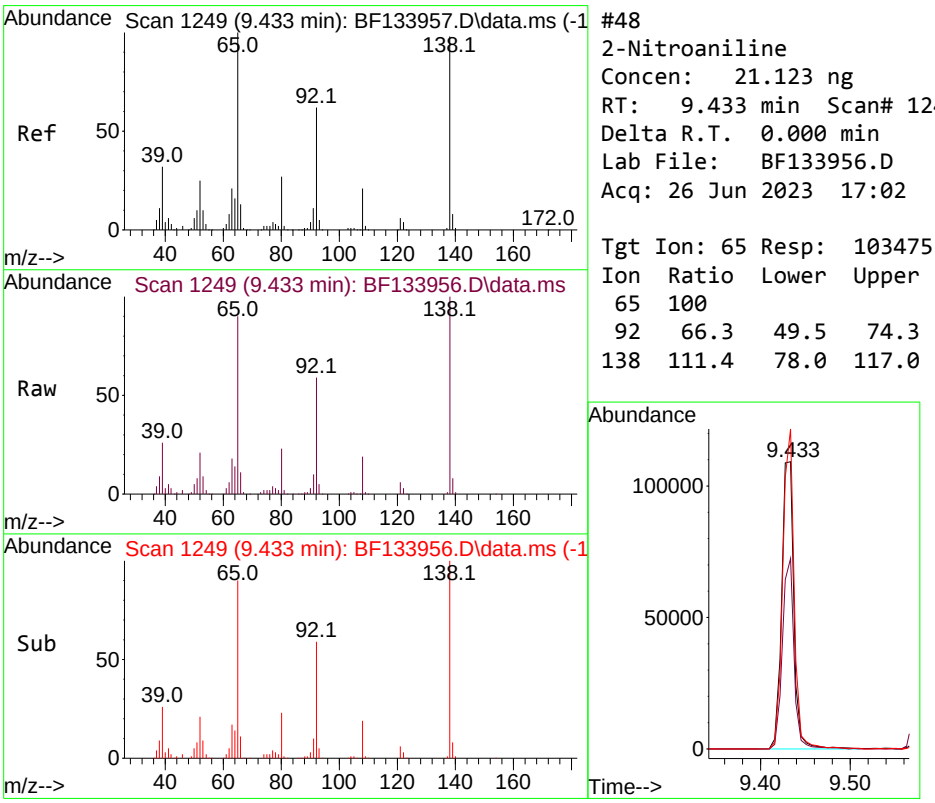
Tgt Ion:162 Resp: 28305

Ion	Ratio	Lower	Upper
162	100		
127	40.4	32.9	49.3
164	33.7	26.1	39.1

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

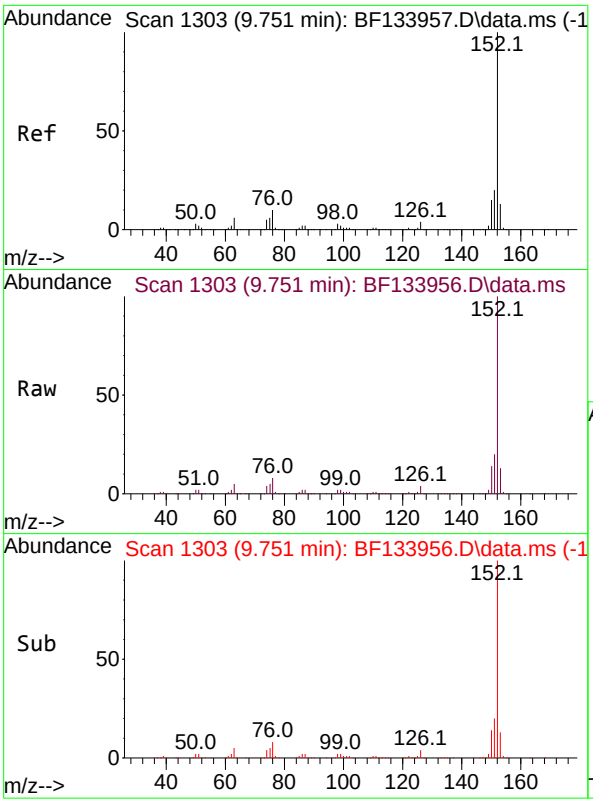
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023



#48
2-Nitroaniline
Concen: 21.123 ng
RT: 9.433 min Scan# 1249
Delta R.T. 0.000 min
Lab File: BF133956.D
Acq: 26 Jun 2023 17:02

Tgt Ion: 65 Resp: 103475

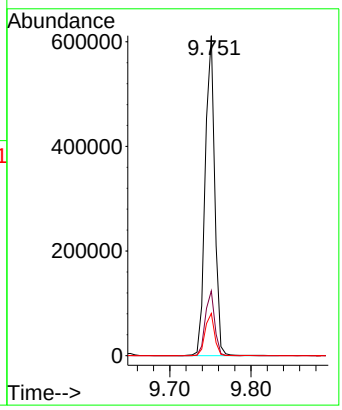
Ion	Ratio	Lower	Upper
65	100		
92	66.3	49.5	74.3
138	111.4	78.0	117.0



#49
Acenaphthylene
Concen: 21.652 ng
RT: 9.751 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF133956.D
Acq: 26 Jun 2023 17:02

Tgt Ion:152 Resp: 49716

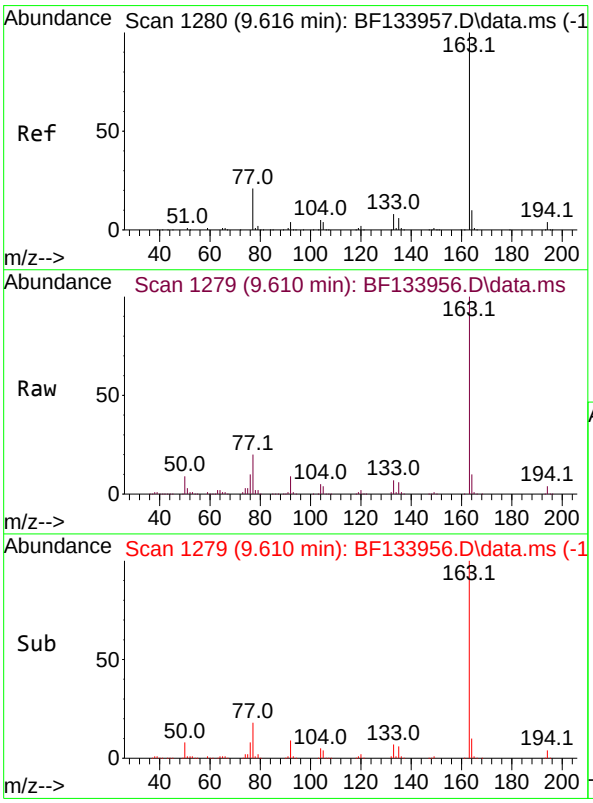
Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.2	24.2
153	13.2	10.8	16.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

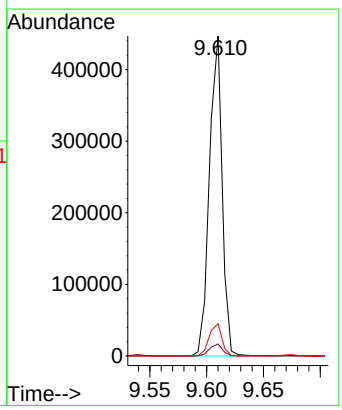
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

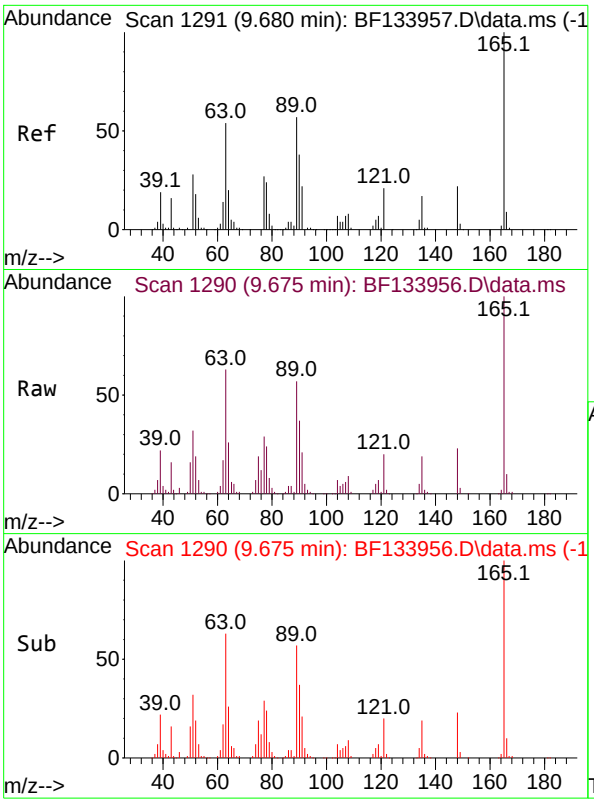


#50
Dimethylphthalate
Concen: 20.969 ng
RT: 9.610 min Scan# 1279
Delta R.T. -0.006 min
Lab File: BF133956.D
Acq: 26 Jun 2023 17:02

Tgt Ion:163 Resp: 348595

Ion	Ratio	Lower	Upper
163	100		
194	3.7	3.0	4.6
164	10.0	8.2	12.2

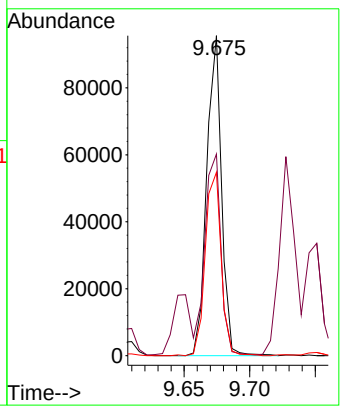




#51
2,6-Dinitrotoluene
Concen: 21.057 ng
RT: 9.675 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF133956.D
Acq: 26 Jun 2023 17:02

Tgt Ion:165 Resp: 7539

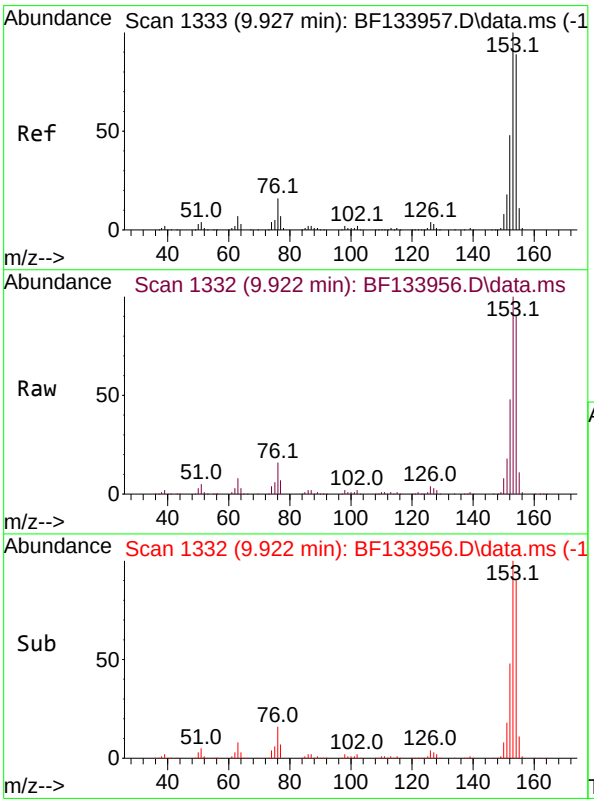
Ion	Ratio	Lower	Upper
165	100		
63	63.0	48.5	72.7
89	57.3	45.5	68.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

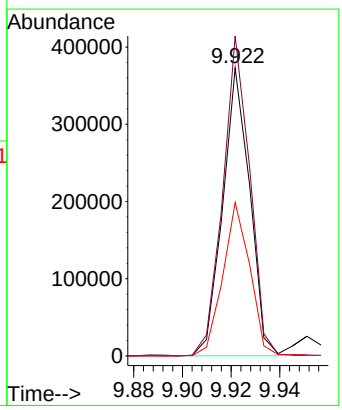
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

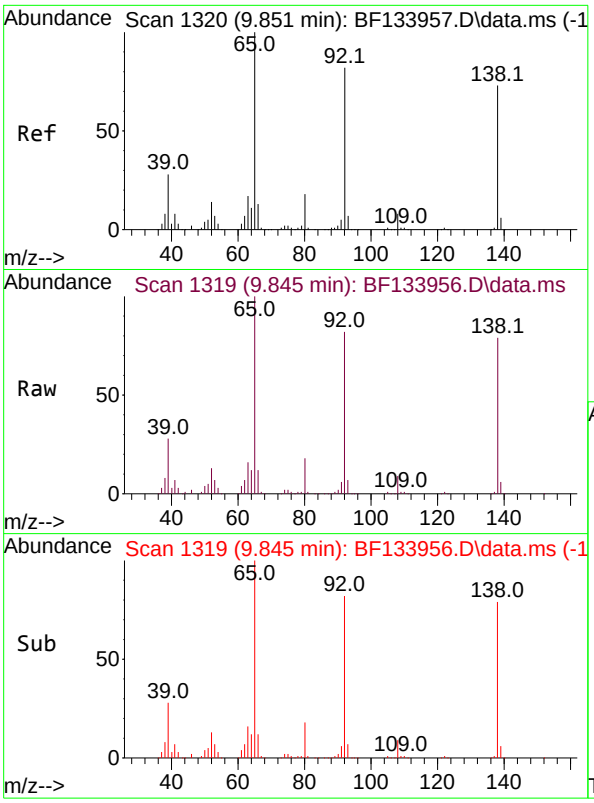


#52
Acenaphthene
Concen: 21.526 ng
RT: 9.922 min Scan# 1332
Delta R.T. -0.005 min
Lab File: BF133956.D
Acq: 26 Jun 2023 17:02

Tgt Ion:154 Resp: 286795

Ion	Ratio	Lower	Upper
154	100		
153	111.1	89.4	134.2
152	53.3	42.8	64.2

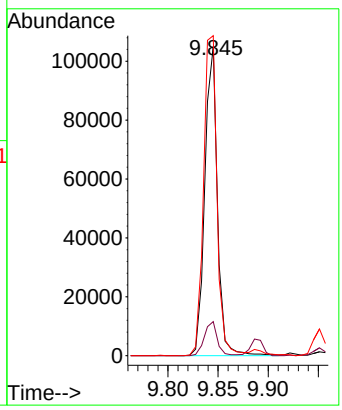




#53
3-Nitroaniline
Concen: 21.563 ng
RT: 9.845 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF133956.D
Acq: 26 Jun 2023 17:02

Tgt Ion:138 Resp: 9262

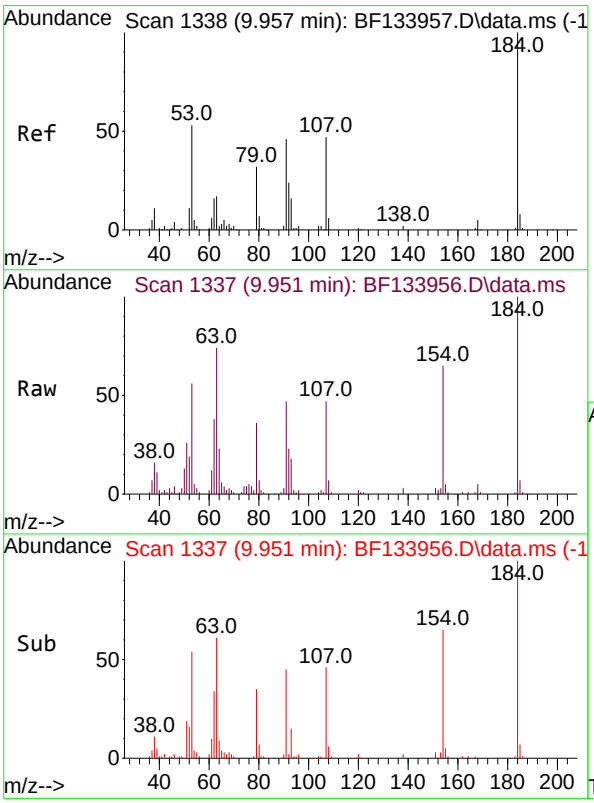
Ion	Ratio	Lower	Upper
138	100		
108	11.0	8.4	12.6
92	103.6	90.1	135.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

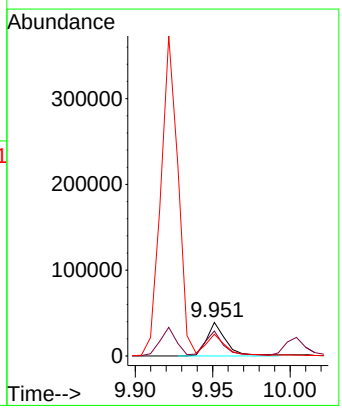
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

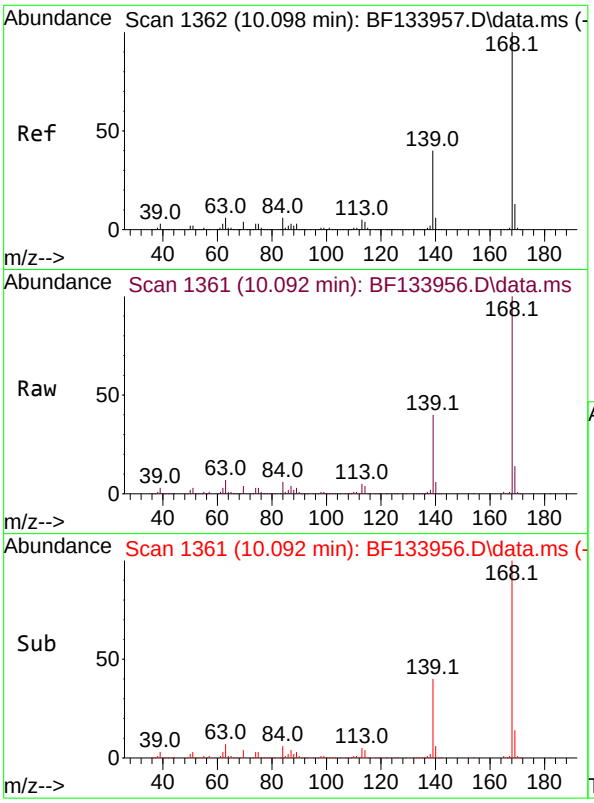


#54
2,4-Dinitrophenol
Concen: 19.377 ng
RT: 9.951 min Scan# 1337
Delta R.T. -0.006 min
Lab File: BF133956.D
Acq: 26 Jun 2023 17:02

Tgt Ion:184 Resp: 33707

Ion	Ratio	Lower	Upper
184	100		
63	74.3	56.9	85.3
154	64.9	55.4	83.0

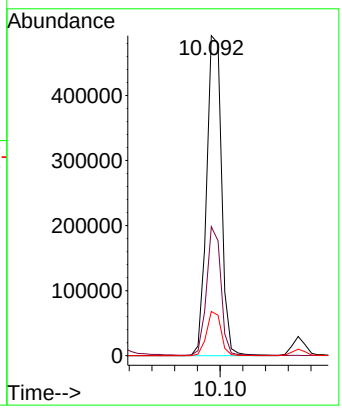




#55
Dibenzofuran
Concen: 21.562 ng
RT: 10.092 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF133956.D
Acq: 26 Jun 2023 17:02

Tgt Ion:168 Resp: 44897

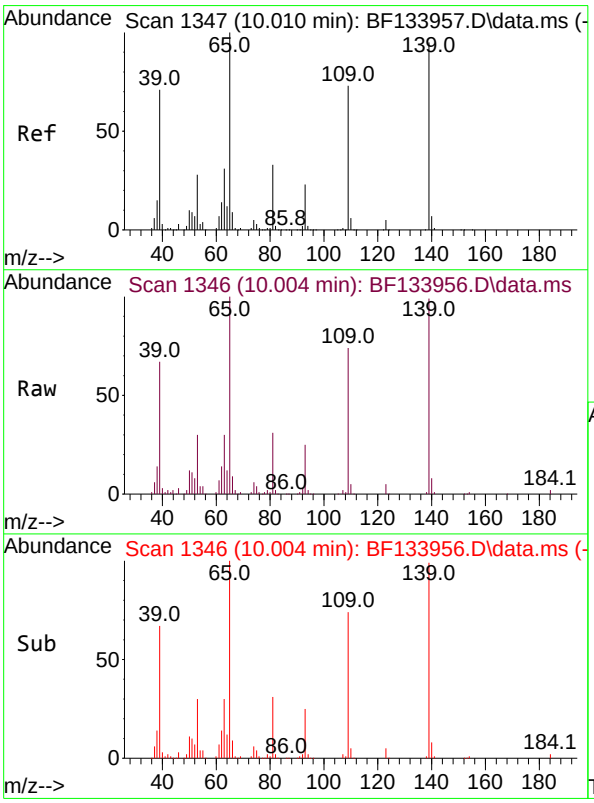
Ion	Ratio	Lower	Upper
168	100		
139	40.3	32.0	48.0
169	13.8	10.6	16.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

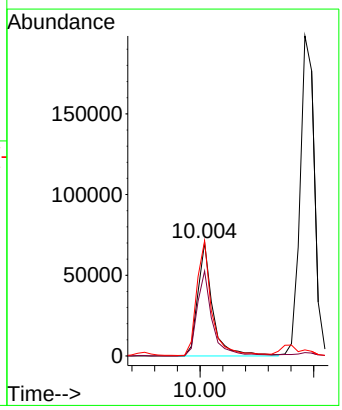
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

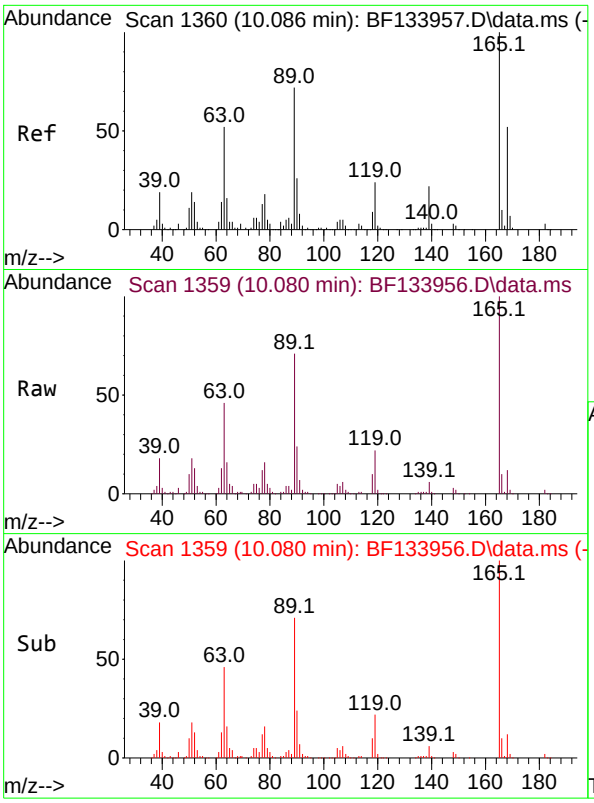


#56
4-Nitrophenol
Concen: 21.310 ng
RT: 10.004 min Scan# 1346
Delta R.T. -0.006 min
Lab File: BF133956.D
Acq: 26 Jun 2023 17:02

Tgt Ion:139 Resp: 64029

Ion	Ratio	Lower	Upper
139	100		
109	74.9	56.8	96.8
65	101.5	86.1	126.1

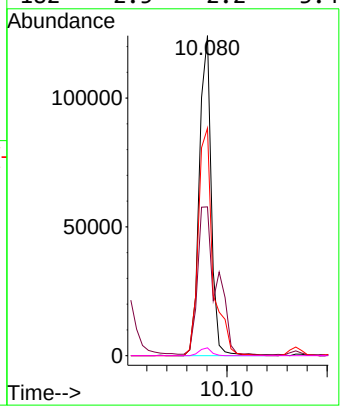




#57
2,4-Dinitrotoluene
Concen: 21.787 ng
RT: 10.080 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF133956.D
Acq: 26 Jun 2023 17:02

Tgt Ion:165 Resp: 10302

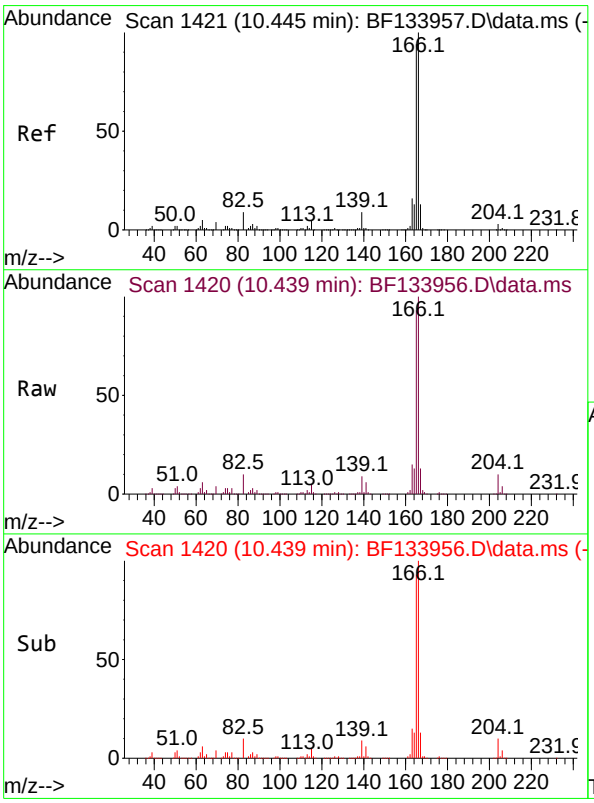
Ion	Ratio	Lower	Upper
165	100		
63	46.5	42.2	63.2
89	71.1	57.4	86.2
182	2.5	2.2	3.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

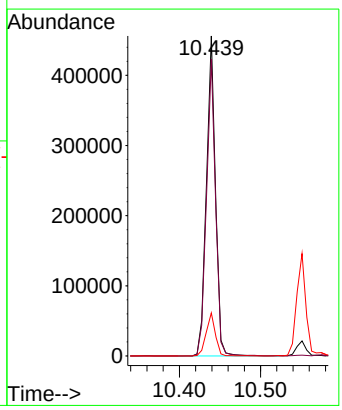
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

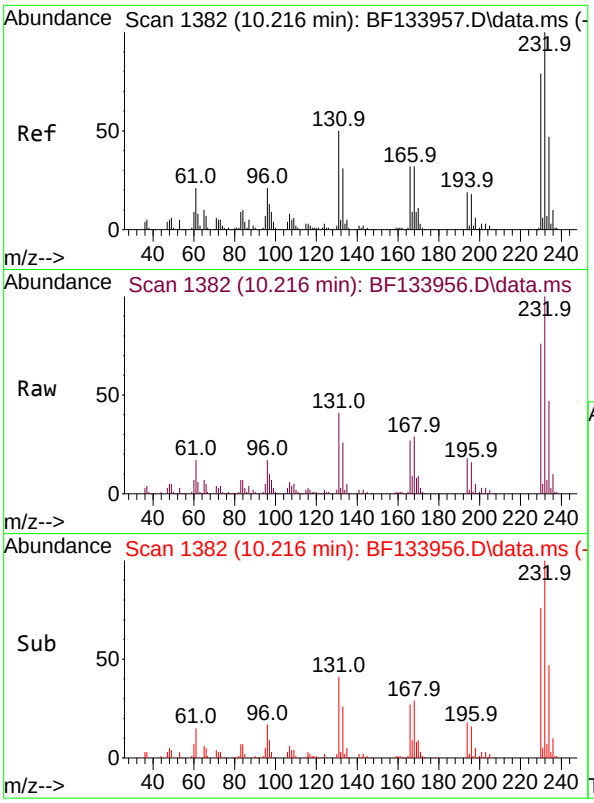


#58
Fluorene
Concen: 21.783 ng
RT: 10.439 min Scan# 1420
Delta R.T. -0.006 min
Lab File: BF133956.D
Acq: 26 Jun 2023 17:02

Tgt Ion:166 Resp: 352872

Ion	Ratio	Lower	Upper
166	100		
165	92.8	75.0	112.4
167	13.5	10.6	15.8

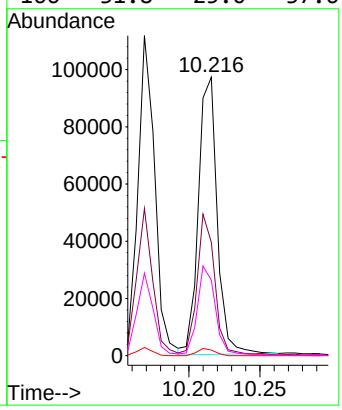




#59
2,3,4,6-Tetrachlorophenol
Concen: 20.859 ng
RT: 10.216 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF133956.D
Acq: 26 Jun 2023 17:02

Tgt Ion:232 Resp: 8939

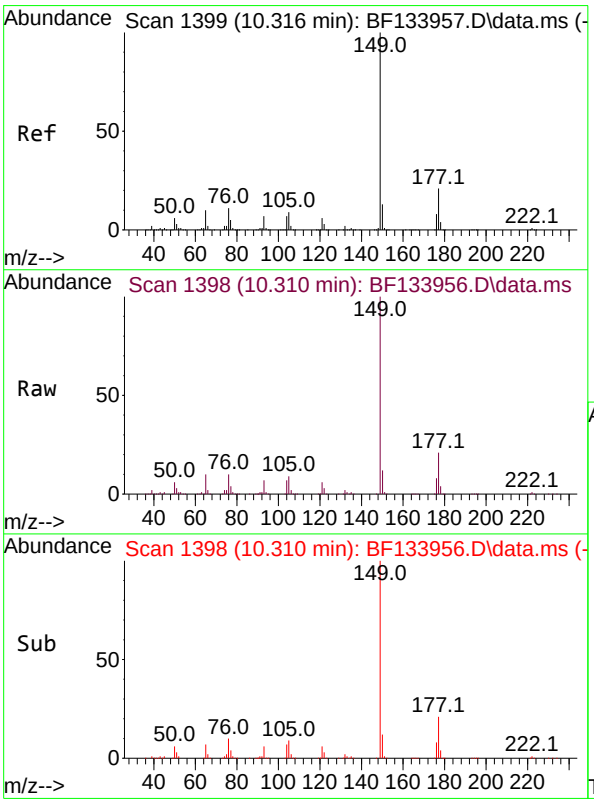
Ion	Ratio	Lower	Upper
232	100		
131	48.5	39.3	58.9
130	2.4	1.8	2.6
166	31.8	25.0	37.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

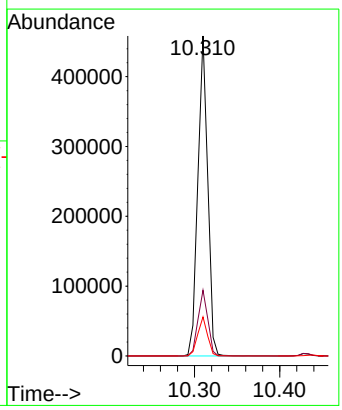
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

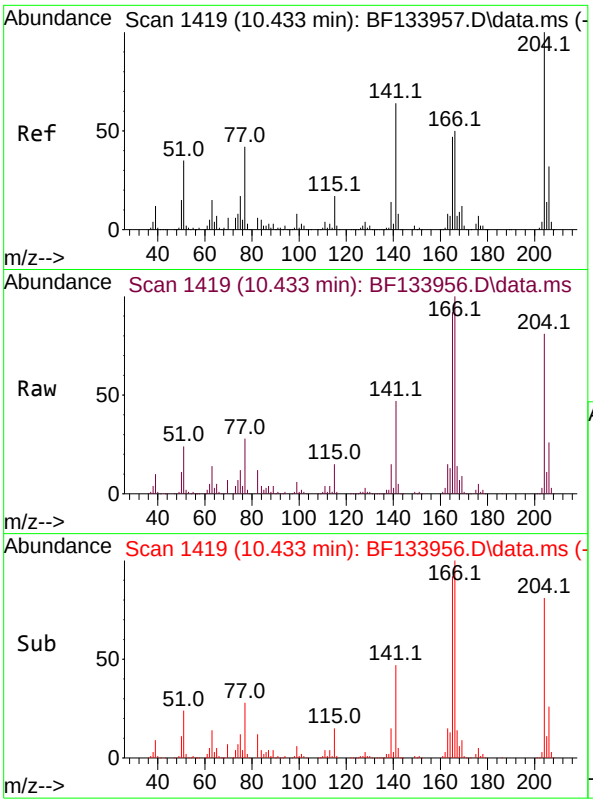


#60
Diethylphthalate
Concen: 21.309 ng
RT: 10.310 min Scan# 1398
Delta R.T. -0.006 min
Lab File: BF133956.D
Acq: 26 Jun 2023 17:02

Tgt Ion:149 Resp: 369078

Ion	Ratio	Lower	Upper
149	100		
177	20.6	17.0	25.6
150	12.2	10.2	15.2

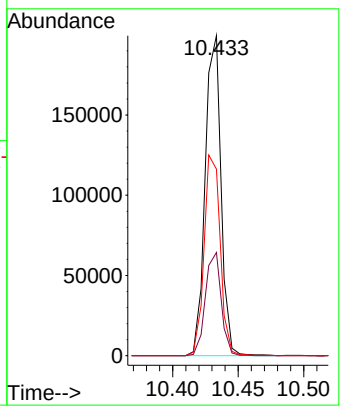




#61
4-Chlorophenyl-phenylether
Concen: 21.511 ng
RT: 10.433 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF133956.D
Acq: 26 Jun 2023 17:02

Tgt Ion:204 Resp: 16793

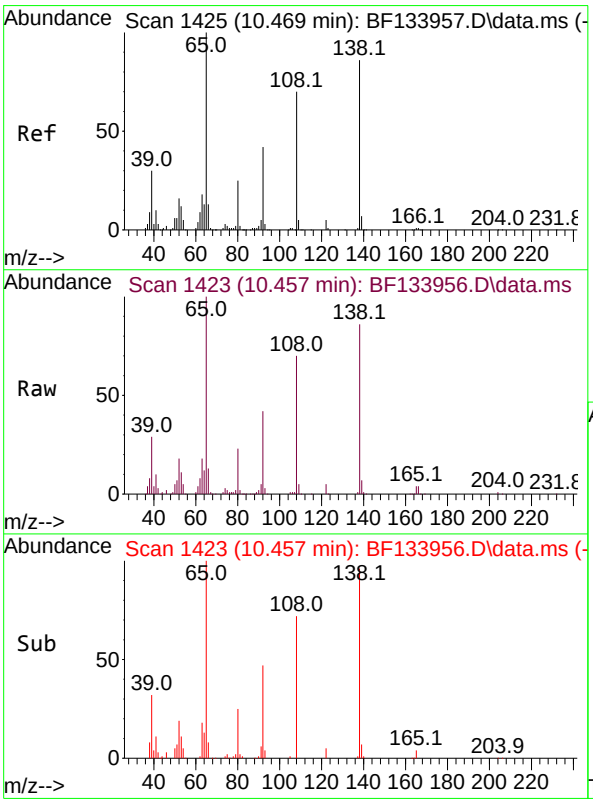
Ion	Ratio	Lower	Upper
204	100		
206	32.2	25.8	38.6
141	58.3	51.5	77.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

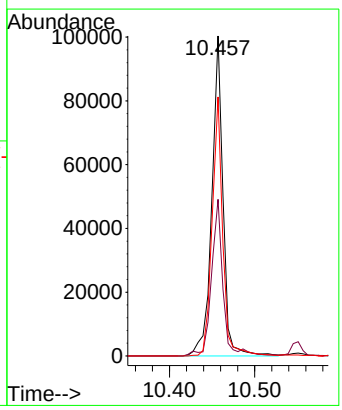
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

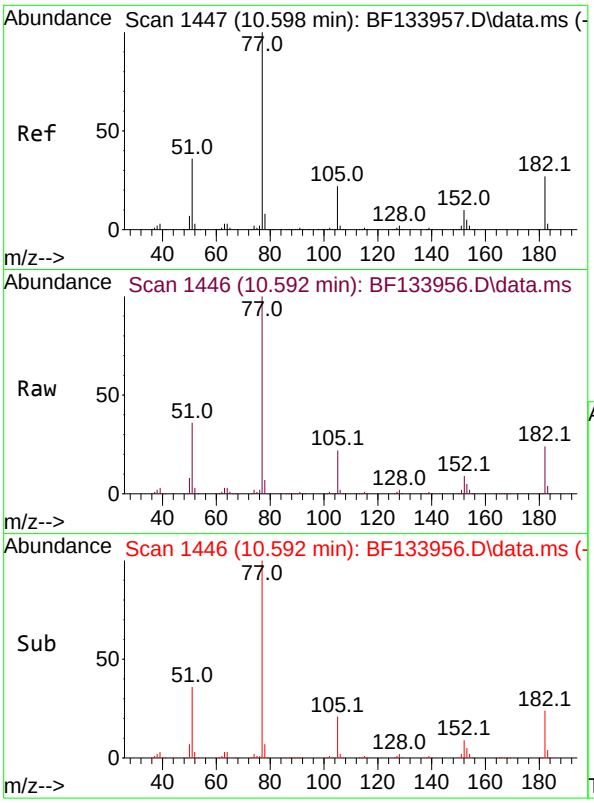


#62
4-Nitroaniline
Concen: 21.252 ng
RT: 10.457 min Scan# 1423
Delta R.T. -0.012 min
Lab File: BF133956.D
Acq: 26 Jun 2023 17:02

Tgt Ion:138 Resp: 92001

Ion	Ratio	Lower	Upper
138	100		
92	48.9	29.7	69.7
108	80.9	62.1	102.1





#63
Azobenzene
Concen: 21.131 ng
RT: 10.592 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF133956.D
Acq: 26 Jun 2023 17:02

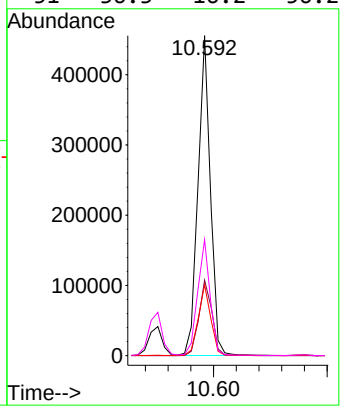
Instrument :
BNA_F
ClientSampleId :
SSTDICC020

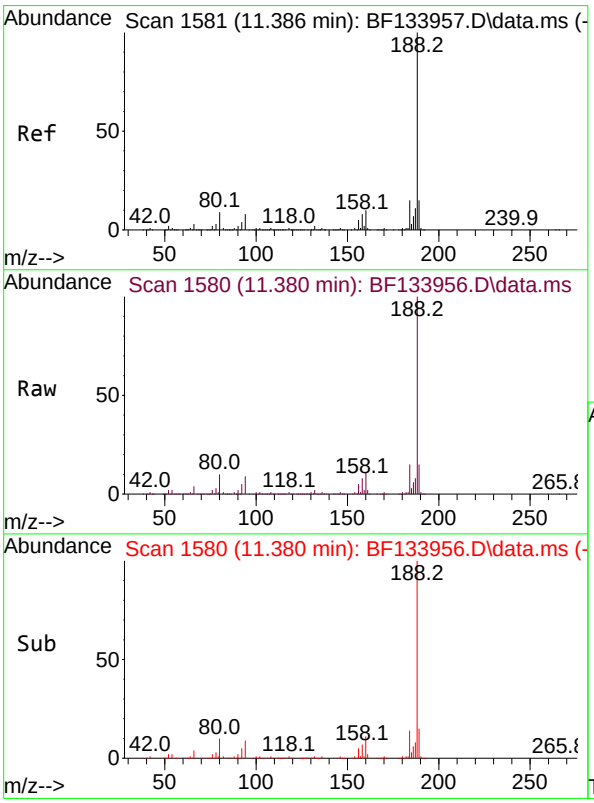
Tgt Ion: 77 Resp: 34619

Ion	Ratio	Lower	Upper
77	100		
182	23.6	6.8	46.8
105	22.2	2.3	42.3
51	36.3	16.2	56.2

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

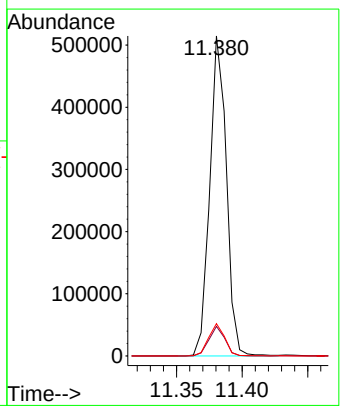


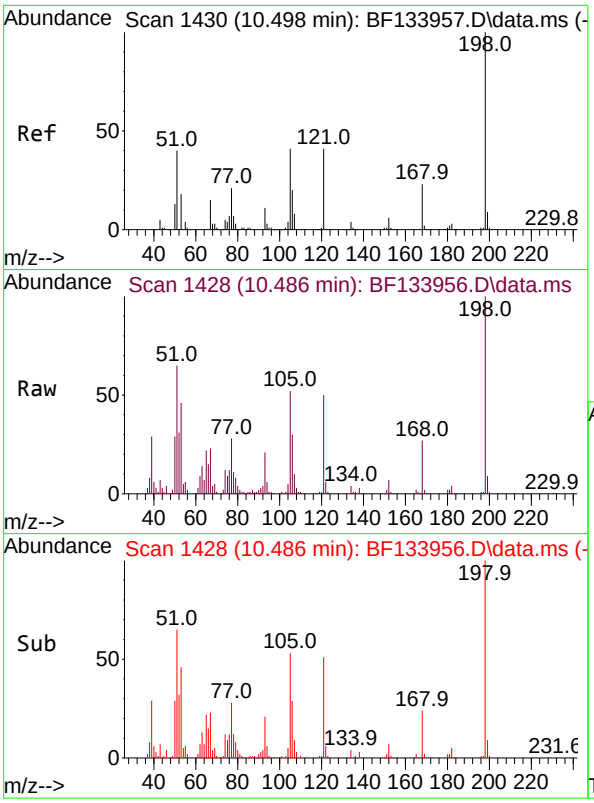


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.380 min Scan# 1580
Delta R.T. -0.006 min
Lab File: BF133956.D
Acq: 26 Jun 2023 17:02

Tgt Ion:188 Resp: 454477

Ion	Ratio	Lower	Upper
188	100		
94	9.3	6.4	9.6
80	10.1	7.3	10.9

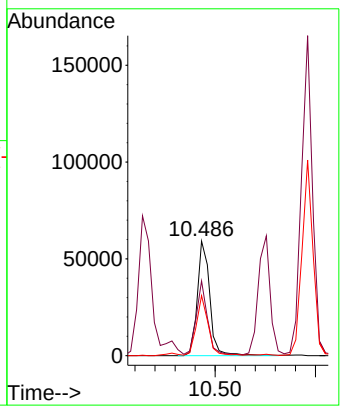




#65
4,6-Dinitro-2-methylphenol
Concen: 20.768 ng
RT: 10.486 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF133956.D
Acq: 26 Jun 2023 17:02

Tgt Ion:198 Resp: 5145

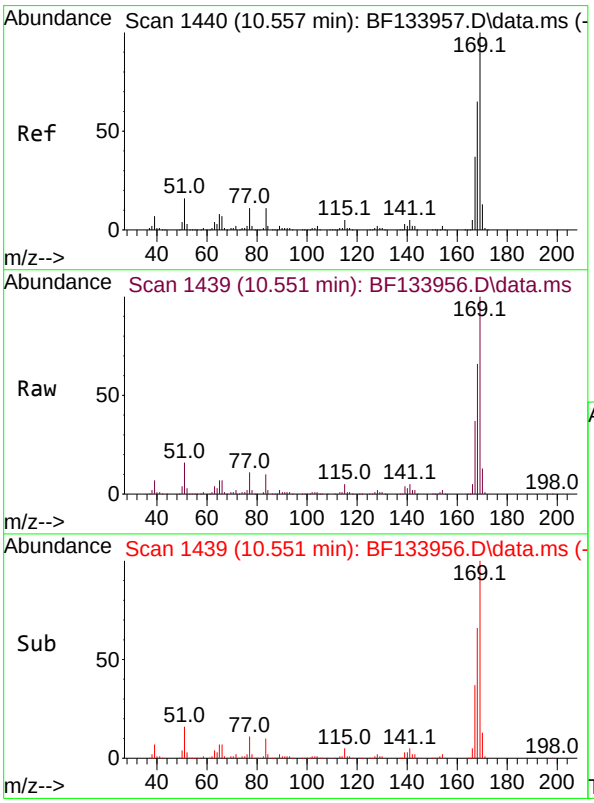
Ion	Ratio	Lower	Upper
198	100		
51	65.2	29.3	69.3
105	52.3	22.4	62.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

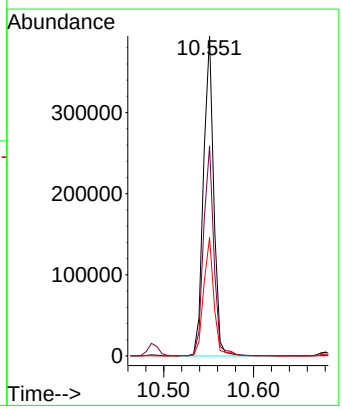
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

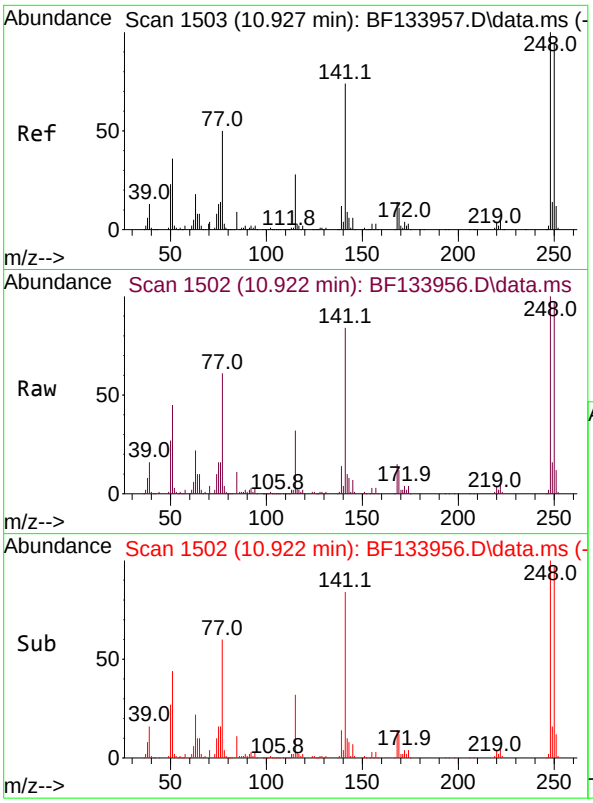


#66
n-Nitrosodiphenylamine
Concen: 21.439 ng
RT: 10.551 min Scan# 1439
Delta R.T. -0.006 min
Lab File: BF133956.D
Acq: 26 Jun 2023 17:02

Tgt Ion:169 Resp: 311312

Ion	Ratio	Lower	Upper
169	100		
168	65.6	52.3	78.5
167	37.0	29.4	44.0

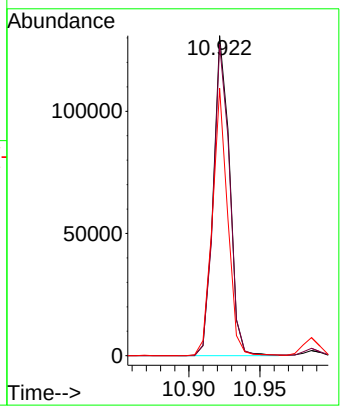




#67
4-Bromophenyl-phenylether
Concen: 21.485 ng
RT: 10.922 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF133956.D
Acq: 26 Jun 2023 17:02

Tgt Ion:248 Resp: 10378

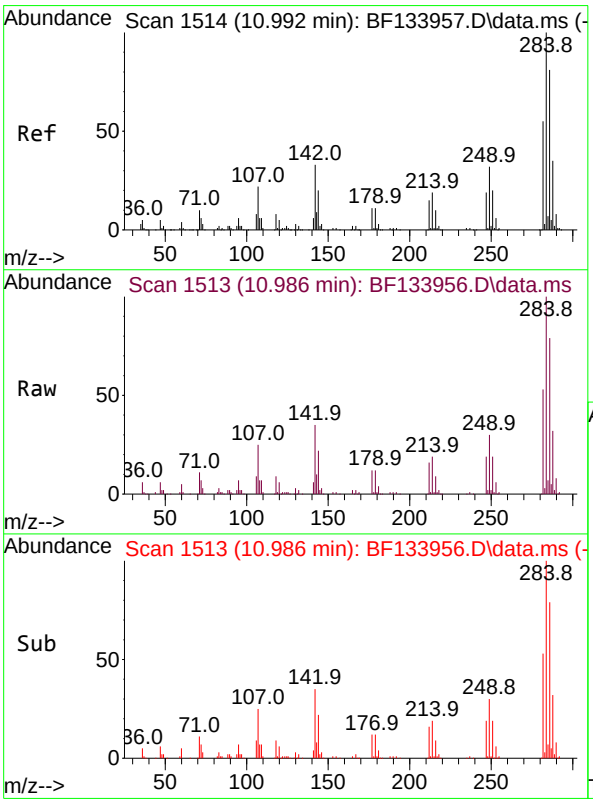
Ion	Ratio	Lower	Upper
248	100		
250	97.3	76.2	114.4
141	83.5	59.0	88.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

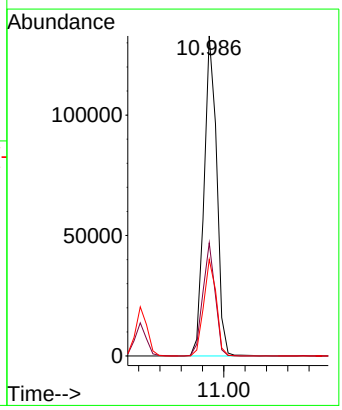
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

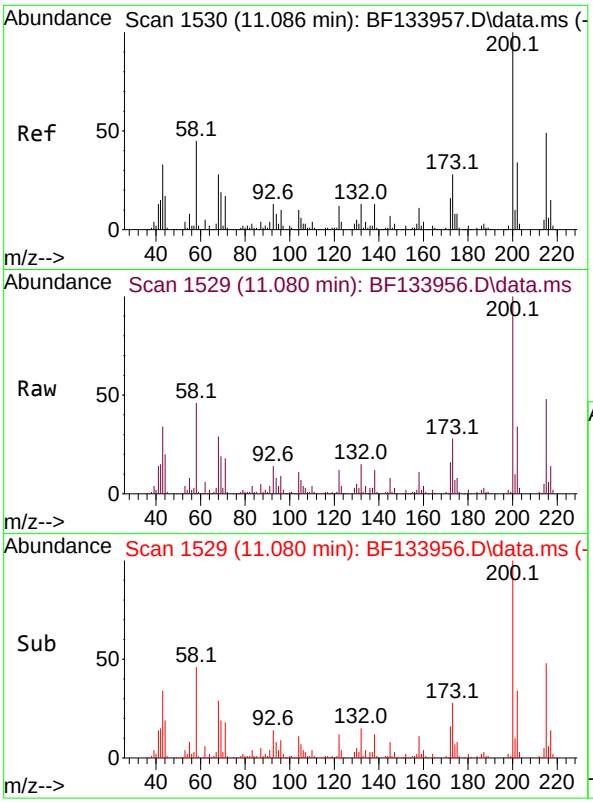


#68
Hexachlorobenzene
Concen: 21.434 ng
RT: 10.986 min Scan# 1513
Delta R.T. -0.006 min
Lab File: BF133956.D
Acq: 26 Jun 2023 17:02

Tgt Ion:284 Resp: 109933

Ion	Ratio	Lower	Upper
284	100		
142	35.4	26.6	40.0
249	30.1	25.5	38.3

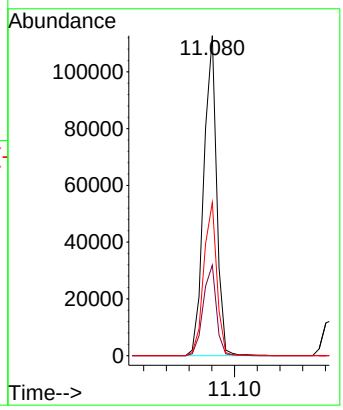




#69
Atrazine
Concen: 22.054 ng
RT: 11.080 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF133956.D
Acq: 26 Jun 2023 17:02

Tgt Ion:200 Resp: 8858

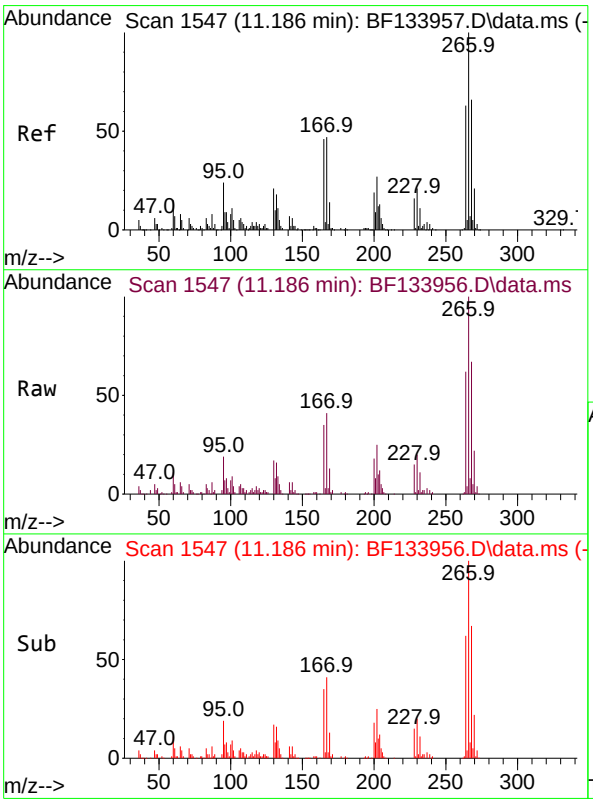
Ion	Ratio	Lower	Upper
200	100		
173	28.3	8.0	48.0
215	47.9	29.3	69.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

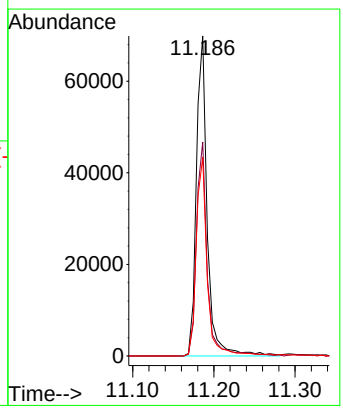
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

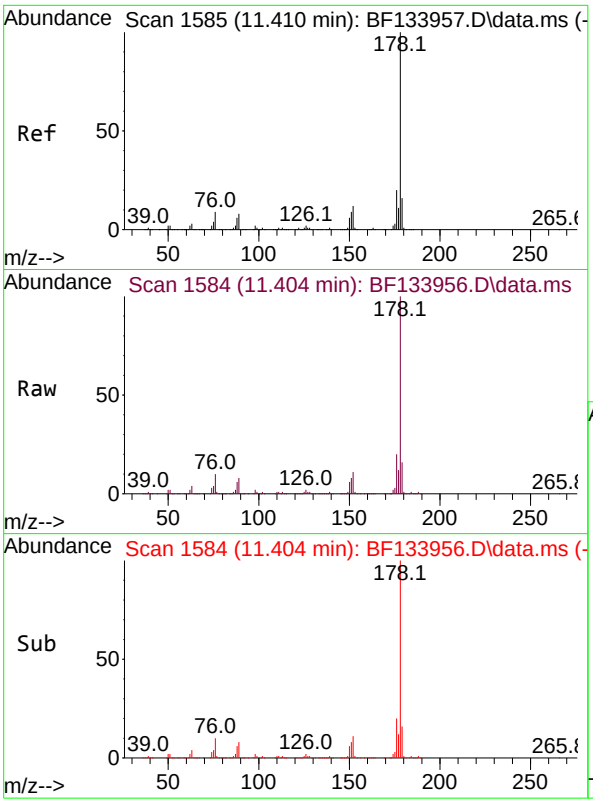


#70
Pentachlorophenol
Concen: 21.307 ng
RT: 11.186 min Scan# 1547
Delta R.T. 0.000 min
Lab File: BF133956.D
Acq: 26 Jun 2023 17:02

Tgt Ion:266 Resp: 65341

Ion	Ratio	Lower	Upper
266	100		
268	66.9	52.6	79.0
264	62.0	50.6	76.0

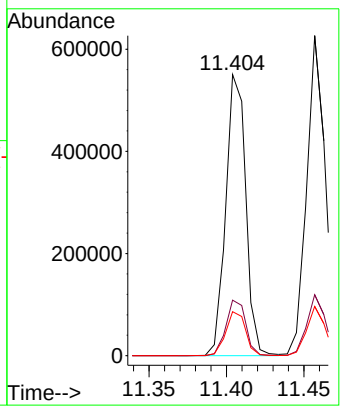




#71
Phenanthrene
Concen: 21.592 ng
RT: 11.404 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF133956.D
Acq: 26 Jun 2023 17:02

Tgt Ion:178 Resp: 49401

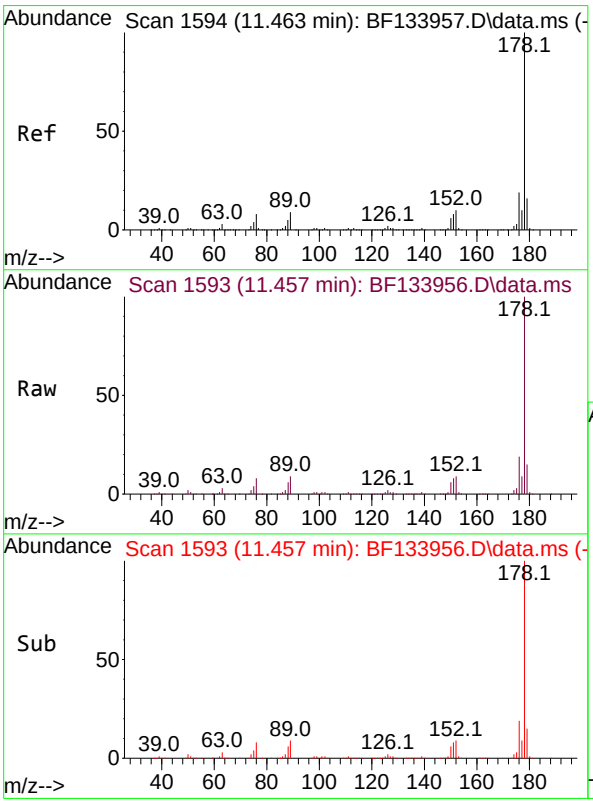
Ion	Ratio	Lower	Upper
178	100		
176	19.7	16.0	24.0
179	15.7	12.4	18.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

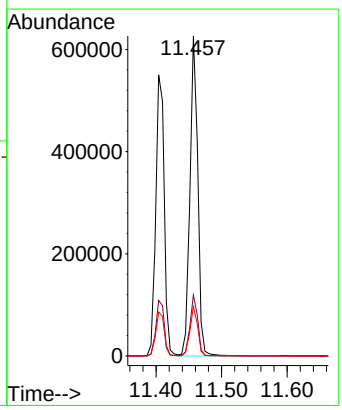
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

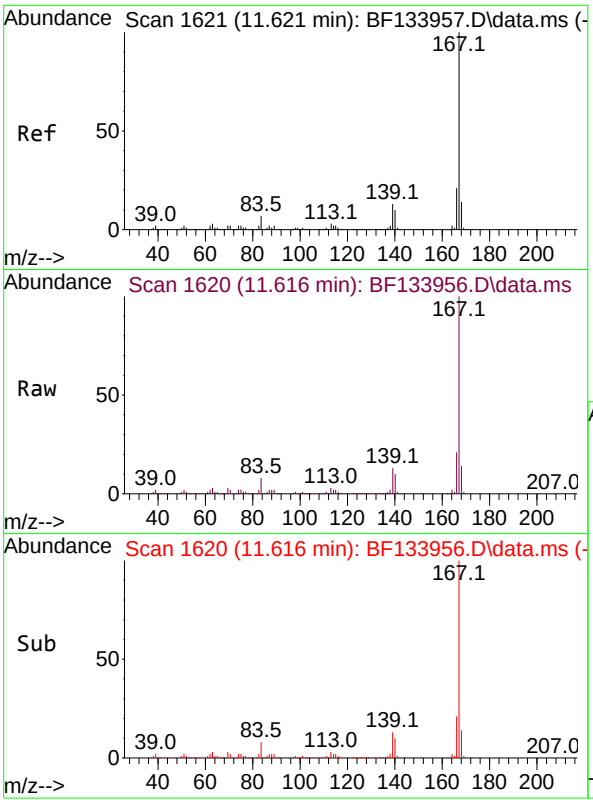


#72
Anthracene
Concen: 21.936 ng
RT: 11.457 min Scan# 1593
Delta R.T. -0.006 min
Lab File: BF133956.D
Acq: 26 Jun 2023 17:02

Tgt Ion:178 Resp: 522010

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.3	22.9
179	15.4	12.4	18.6

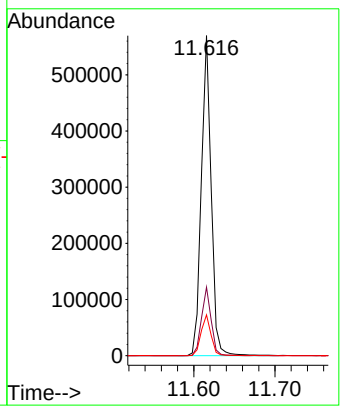




#73
Carbazole
Concen: 22.036 ng
RT: 11.616 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF133956.D
Acq: 26 Jun 2023 17:02

Tgt Ion:167 Resp: 47997

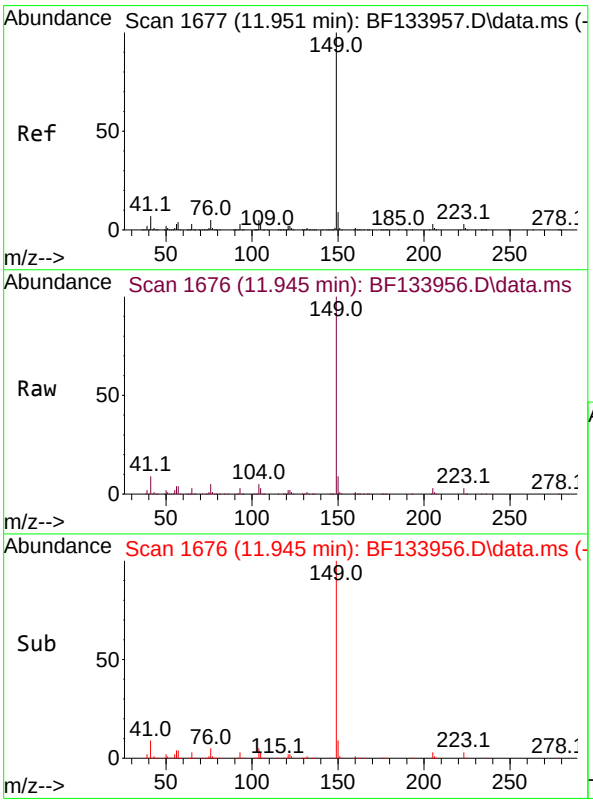
Ion	Ratio	Lower	Upper
167	100		
166	21.4	17.0	25.6
139	12.8	10.4	15.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

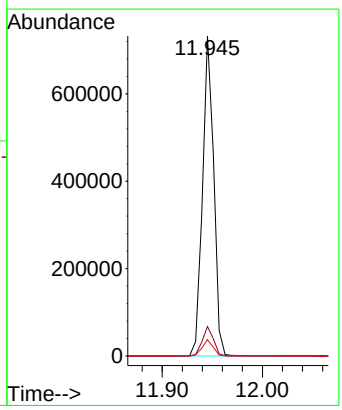
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

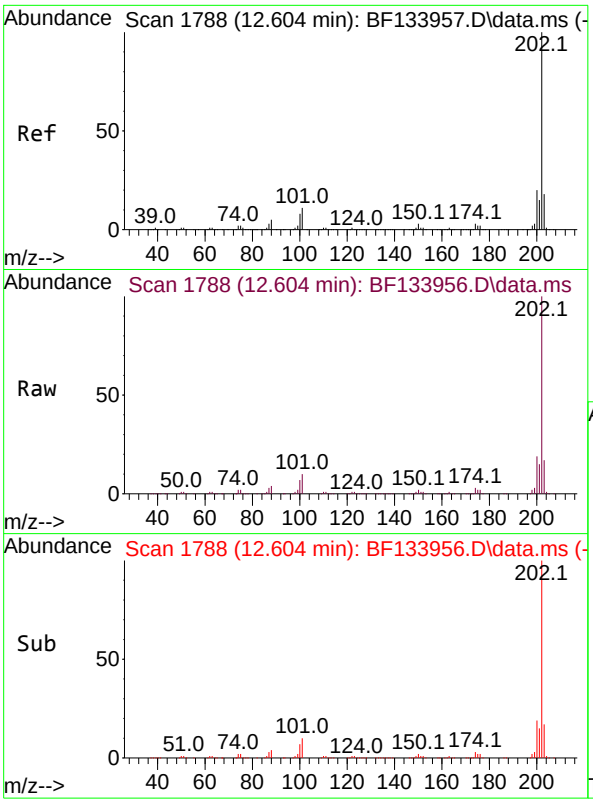


#74
Di-n-butylphthalate
Concen: 21.997 ng
RT: 11.945 min Scan# 1676
Delta R.T. -0.006 min
Lab File: BF133956.D
Acq: 26 Jun 2023 17:02

Tgt Ion:149 Resp: 569784

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.1	10.7
104	5.1	4.0	6.0

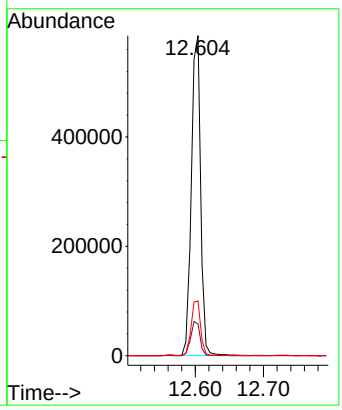




#75
Fluoranthene
Concen: 22.179 ng
RT: 12.604 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF133956.D
Acq: 26 Jun 2023 17:02

Tgt Ion:202 Resp: 54857

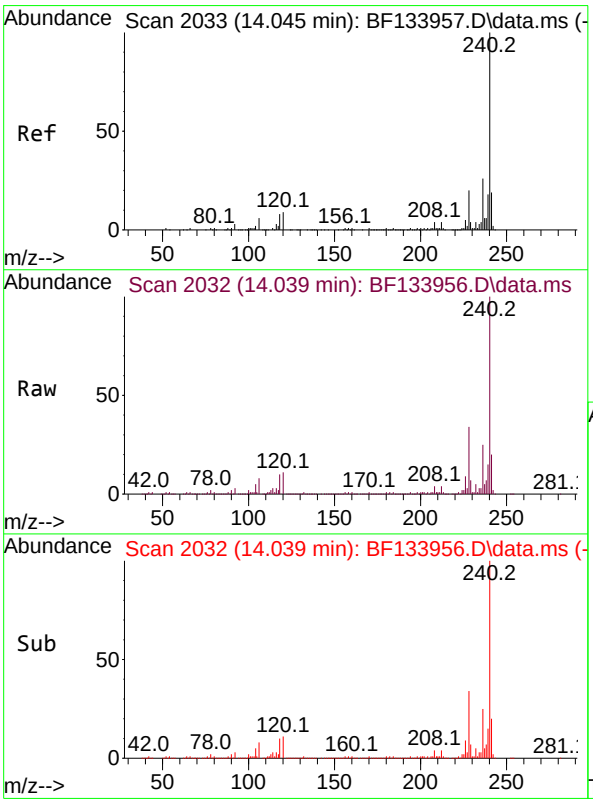
Ion	Ratio	Lower	Upper
202	100		
101	10.0	0.0	31.0
203	17.1	0.0	37.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

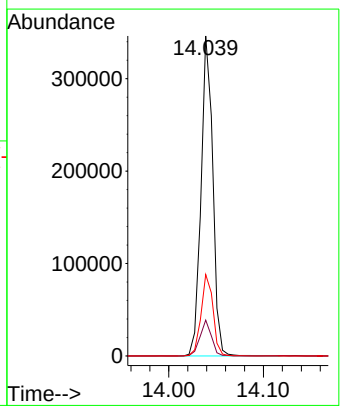
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

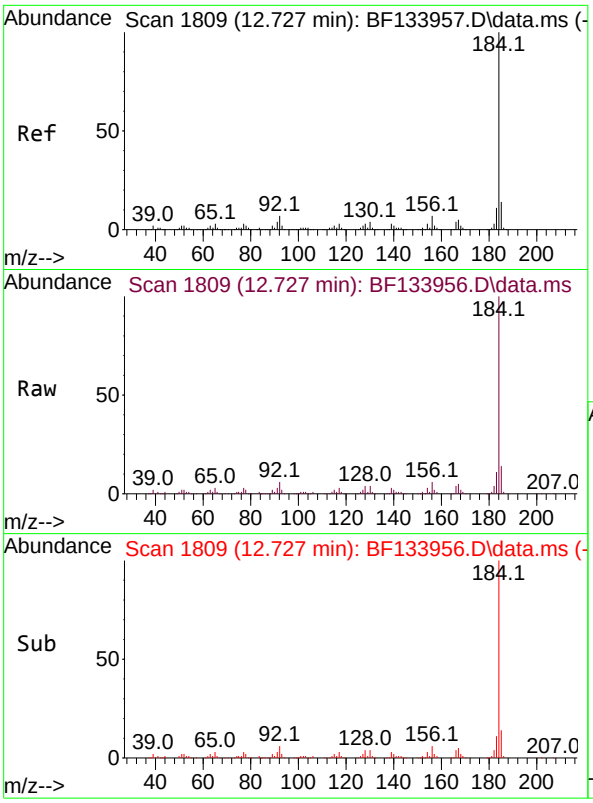


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.039 min Scan# 2032
Delta R.T. -0.006 min
Lab File: BF133956.D
Acq: 26 Jun 2023 17:02

Tgt Ion:240 Resp: 299224

Ion	Ratio	Lower	Upper
240	100		
120	11.2	7.4	11.0#
236	25.4	21.0	31.6

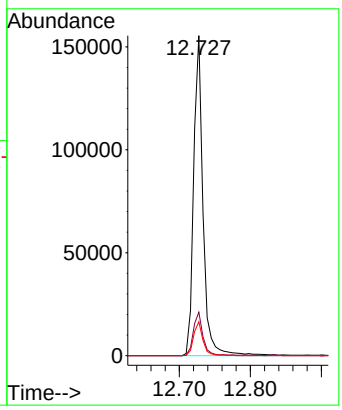




#77
Benzidine
Concen: 20.137 ng
RT: 12.727 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF133956.D
Acq: 26 Jun 2023 17:02

Tgt Ion:184 Resp: 14337

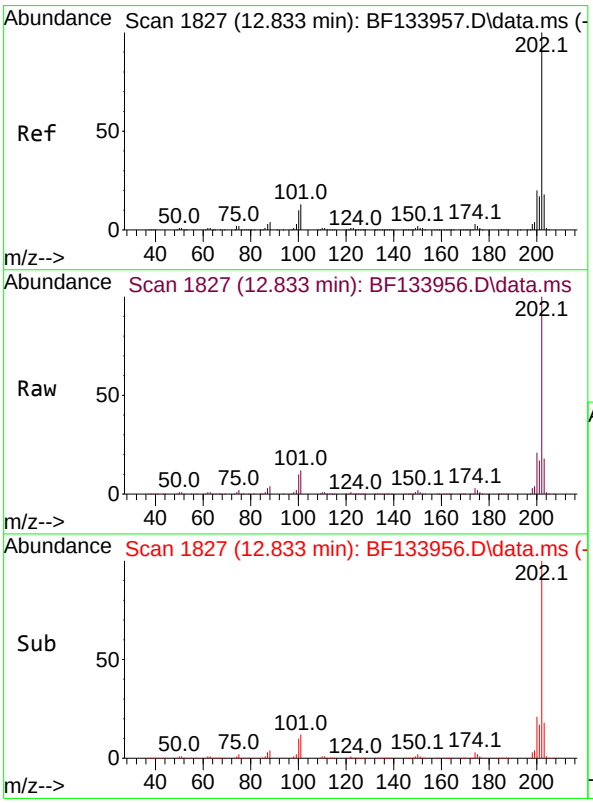
Ion	Ratio	Lower	Upper
184	100		
185	13.6	11.6	17.4
183	10.6	8.8	13.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

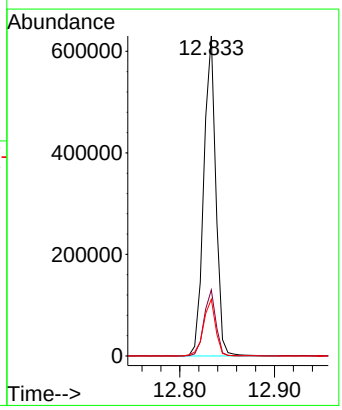
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

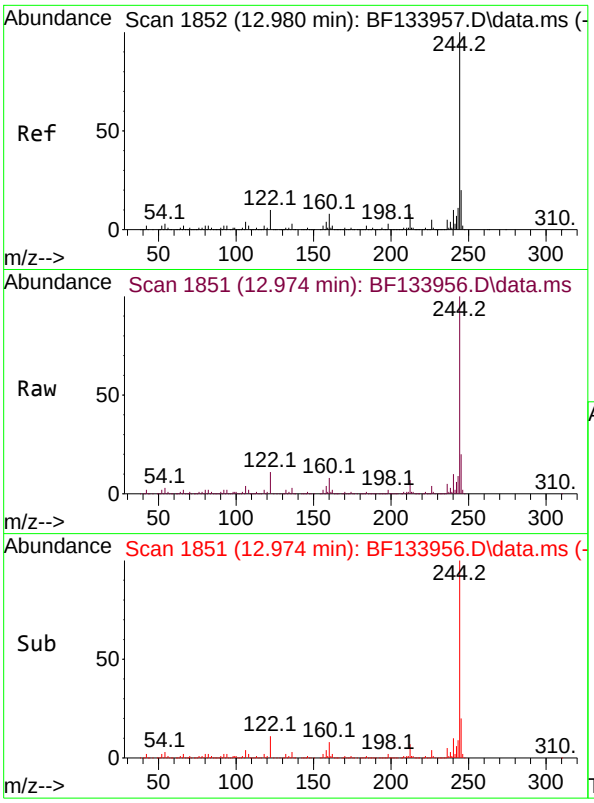


#78
Pyrene
Concen: 20.041 ng
RT: 12.833 min Scan# 1827
Delta R.T. 0.000 min
Lab File: BF133956.D
Acq: 26 Jun 2023 17:02

Tgt Ion:202 Resp: 558069

Ion	Ratio	Lower	Upper
202	100		
200	20.7	16.1	24.1
203	17.7	14.3	21.5

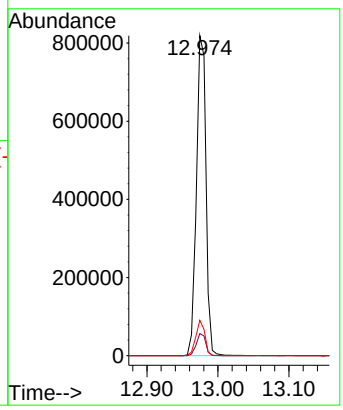




#79
Terphenyl-d14
Concen: 41.332 ng
RT: 12.974 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF133956.D
Acq: 26 Jun 2023 17:02

Tgt Ion:244 Resp: 76845

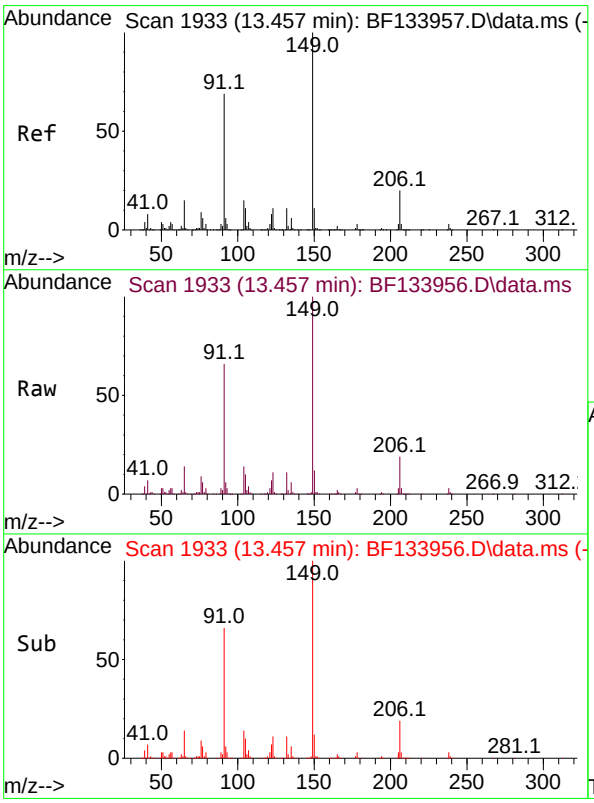
Ion	Ratio	Lower	Upper
244	100		
212	6.9	6.0	9.0
122	11.0	8.3	12.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

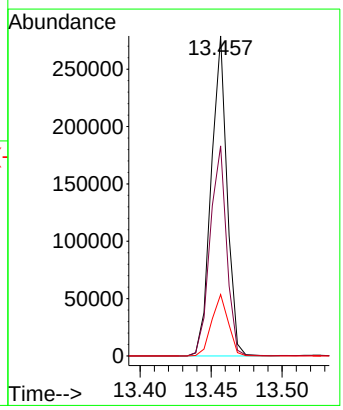
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

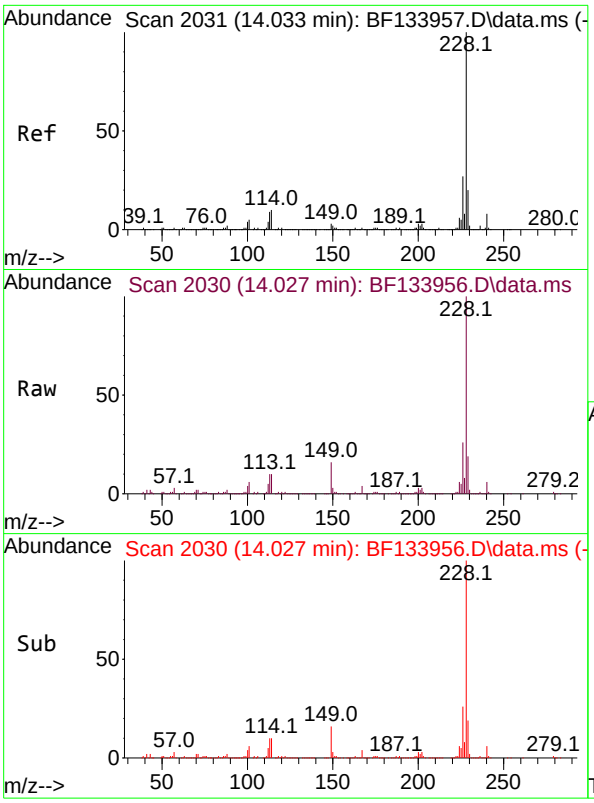


#80
Butylbenzylphthalate
Concen: 20.723 ng
RT: 13.457 min Scan# 1933
Delta R.T. 0.000 min
Lab File: BF133956.D
Acq: 26 Jun 2023 17:02

Tgt Ion:149 Resp: 216431

Ion	Ratio	Lower	Upper
149	100		
91	65.7	55.1	82.7
206	19.2	15.7	23.5

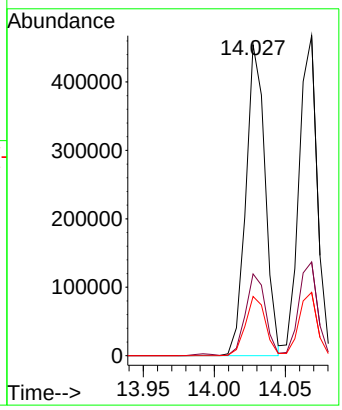




#81
Benzo(a)anthracene
Concen: 20.663 ng
RT: 14.027 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF133956.D
Acq: 26 Jun 2023 17:02

Tgt Ion:228 Resp: 42879

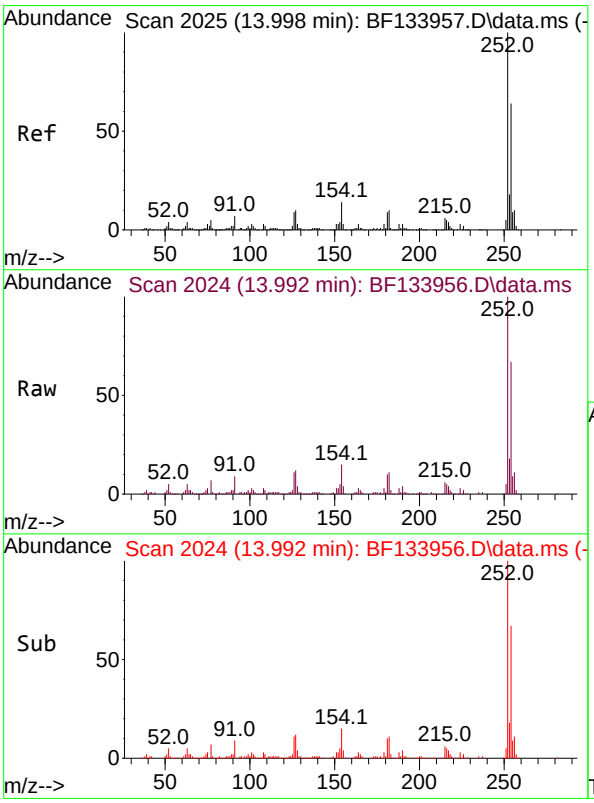
Ion	Ratio	Lower	Upper
228	100		
226	26.3	22.0	33.0
229	19.0	16.3	24.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

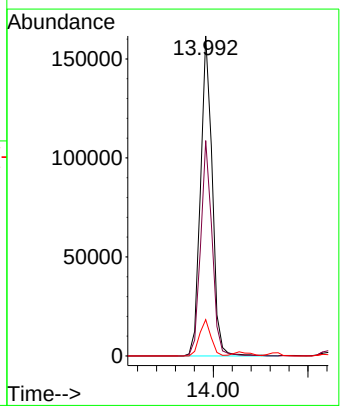
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

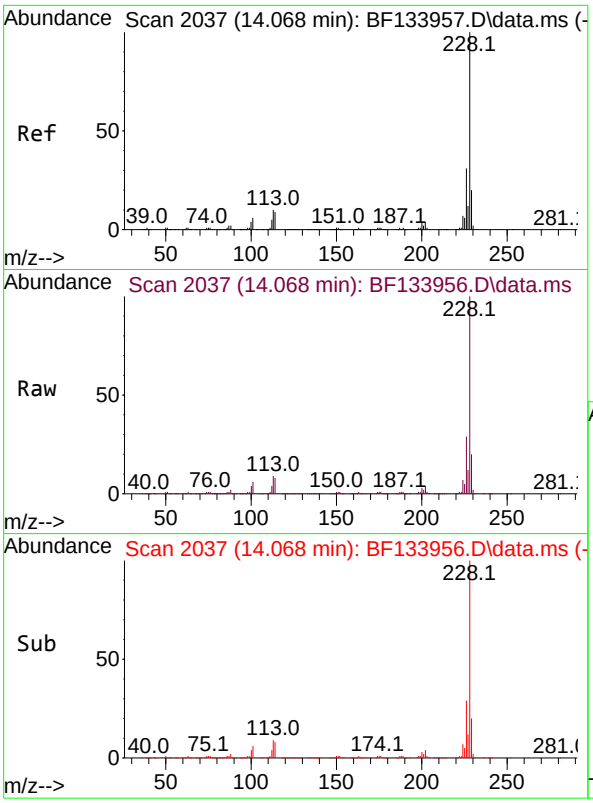


#82
3,3'-Dichlorobenzidine
Concen: 21.169 ng
RT: 13.992 min Scan# 2024
Delta R.T. -0.006 min
Lab File: BF133956.D
Acq: 26 Jun 2023 17:02

Tgt Ion:252 Resp: 139178

Ion	Ratio	Lower	Upper
252	100		
254	67.3	51.4	77.0
126	11.3	7.4	11.2#

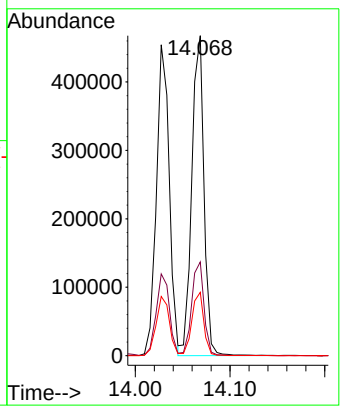




#83
Chrysene
Concen: 20.845 ng
RT: 14.068 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF133956.D
Acq: 26 Jun 2023 17:02

Tgt Ion:228 Resp: 41896

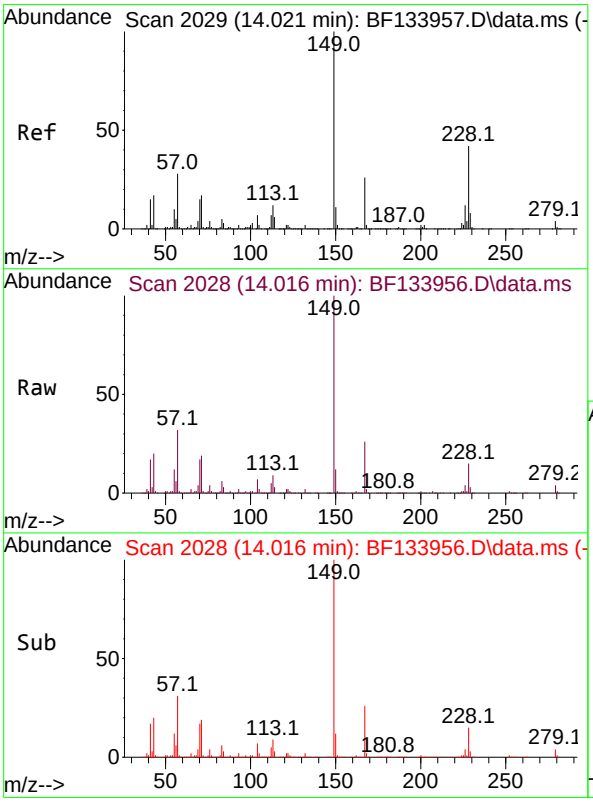
Ion	Ratio	Lower	Upper
228	100		
226	29.3	24.4	36.6
229	19.8	16.1	24.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

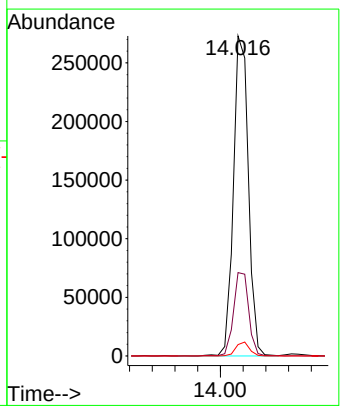
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

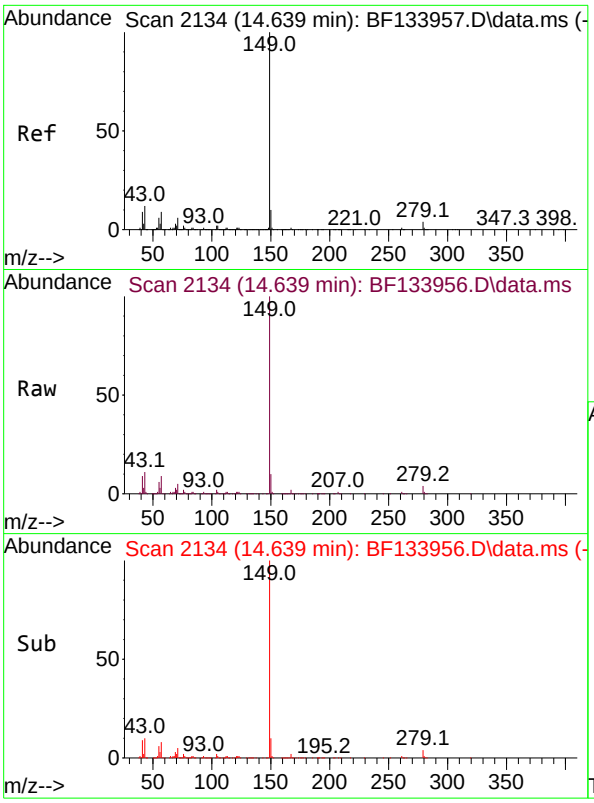


#84
Bis(2-ethylhexyl)phthalate
Concen: 20.744 ng
RT: 14.016 min Scan# 2028
Delta R.T. -0.006 min
Lab File: BF133956.D
Acq: 26 Jun 2023 17:02

Tgt Ion:149 Resp: 248940

Ion	Ratio	Lower	Upper
149	100		
167	26.1	21.0	31.4
279	3.6	3.3	4.9

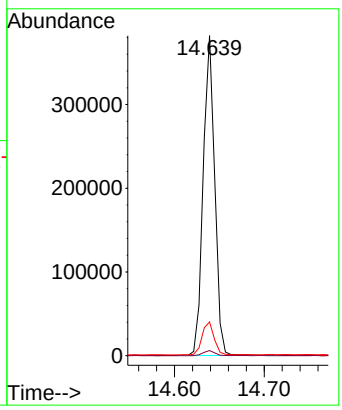




#85
Di-n-octyl phthalate
Concen: 19.296 ng
RT: 14.639 min Scan# 21
Delta R.T. 0.000 min
Lab File: BF133956.D
Acq: 26 Jun 2023 17:02

Tgt Ion:149 Resp: 34024

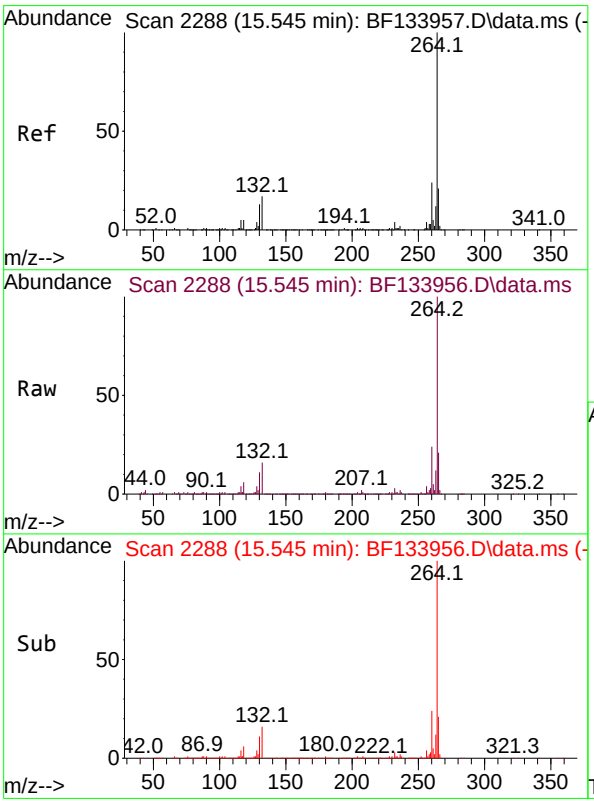
Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	10.8	9.0	13.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

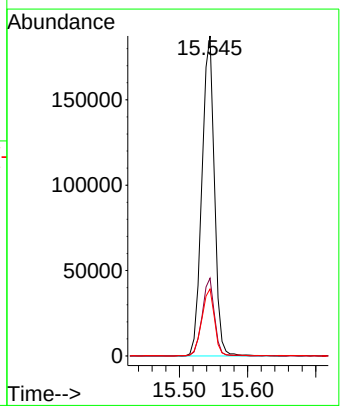
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

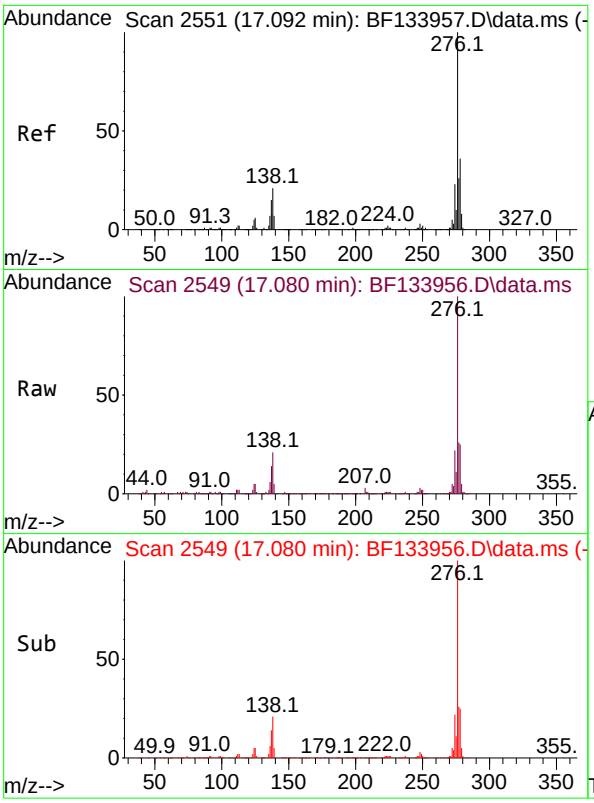


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.545 min Scan# 2288
Delta R.T. 0.000 min
Lab File: BF133956.D
Acq: 26 Jun 2023 17:02

Tgt Ion:264 Resp: 238527

Ion	Ratio	Lower	Upper
264	100		
260	24.3	19.5	29.3
265	21.0	16.6	25.0

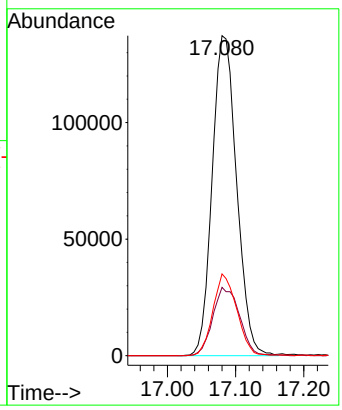




#87
Indeno(1,2,3-cd)pyrene
Concen: 20.684 ng
RT: 17.080 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF133956.D
Acq: 26 Jun 2023 17:02

Tgt Ion:276 Resp: 34235

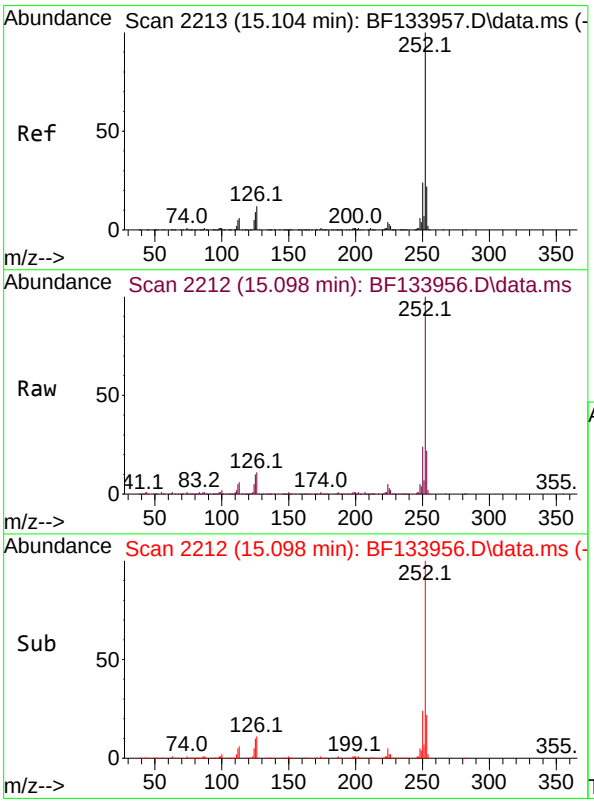
Ion	Ratio	Lower	Upper
276	100		
138	23.5	18.7	28.1
277	25.0	19.9	29.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

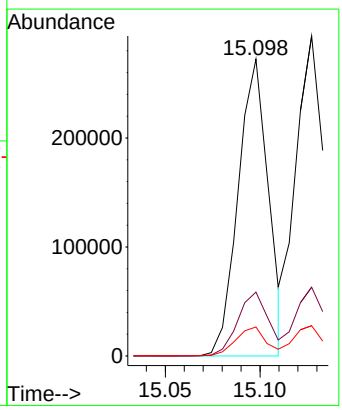
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

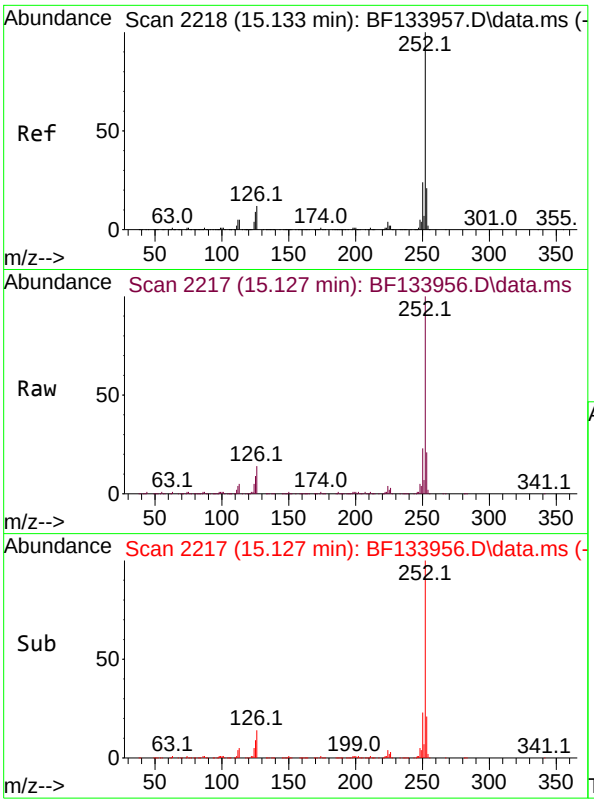


#88
Benzo(b)fluoranthene
Concen: 21.559 ng
RT: 15.098 min Scan# 2212
Delta R.T. -0.006 min
Lab File: BF133956.D
Acq: 26 Jun 2023 17:02

Tgt Ion:252 Resp: 302371

Ion	Ratio	Lower	Upper
252	100		
253	21.5	17.4	26.0
125	9.8	7.1	10.7

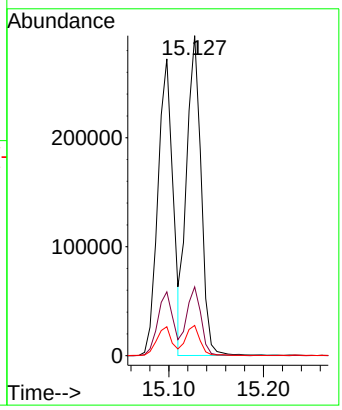




#89
Benzo(k)fluoranthene
Concen: 21.816 ng
RT: 15.127 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF133956.D
Acq: 26 Jun 2023 17:02

Tgt Ion:252 Resp: 31154

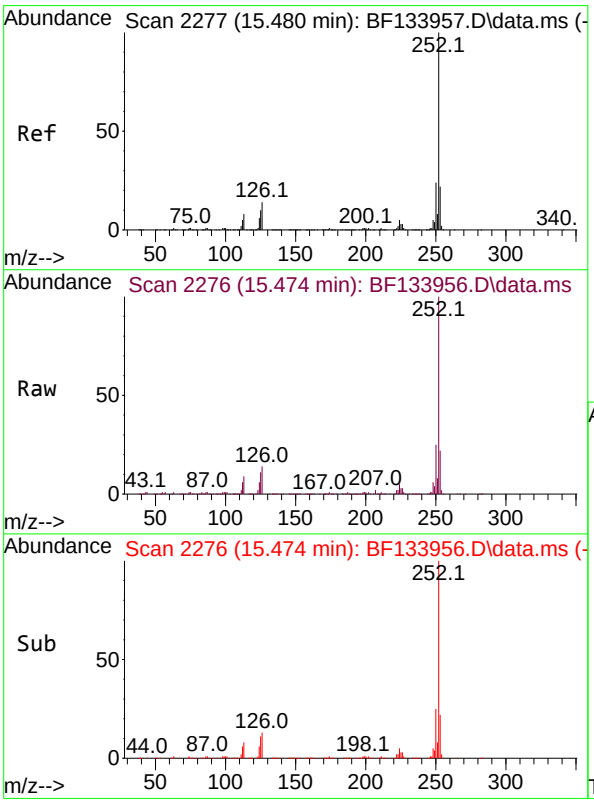
Ion	Ratio	Lower	Upper
252	100		
253	21.5	16.9	25.3
125	9.5	7.4	11.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

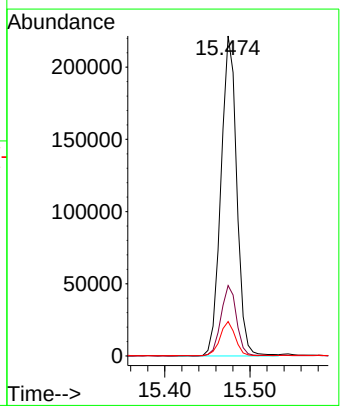
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

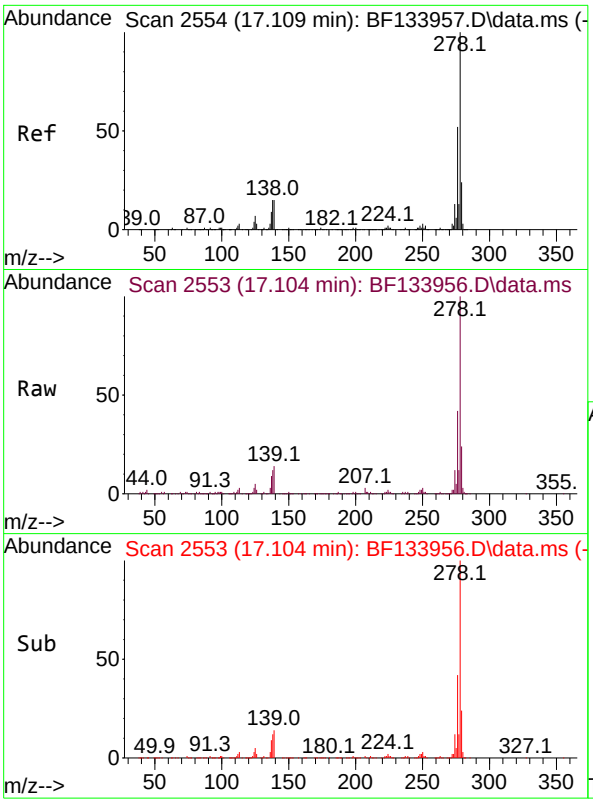


#90
Benzo(a)pyrene
Concen: 21.081 ng
RT: 15.474 min Scan# 2276
Delta R.T. -0.006 min
Lab File: BF133956.D
Acq: 26 Jun 2023 17:02

Tgt Ion:252 Resp: 285918

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.4	26.0
125	10.7	8.4	12.6

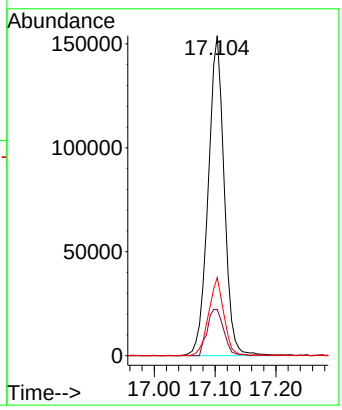




#91
Dibenzo(a,h)anthracene
Concen: 20.832 ng
RT: 17.104 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF133956.D
Acq: 26 Jun 2023 17:02

Tgt Ion:278 Resp: 28162

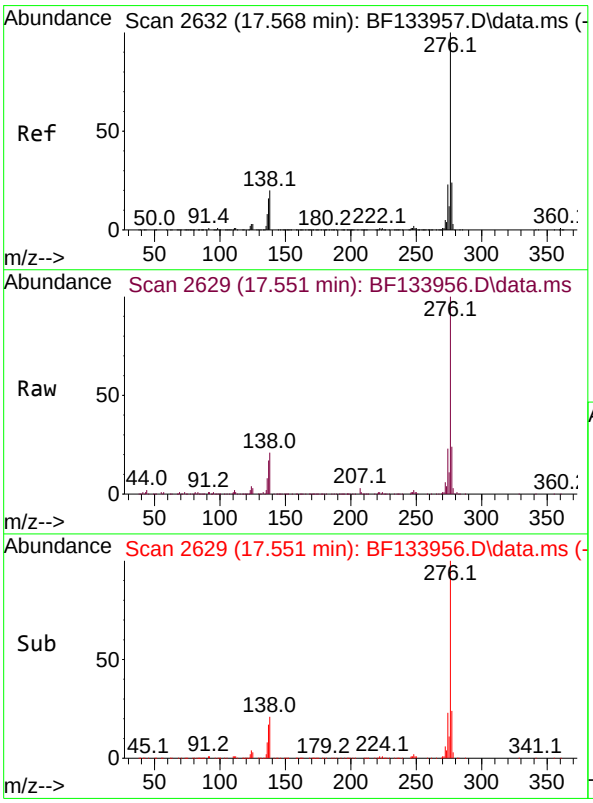
Ion	Ratio	Lower	Upper
278	100		
139	14.4	12.2	18.4
279	24.4	19.4	29.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

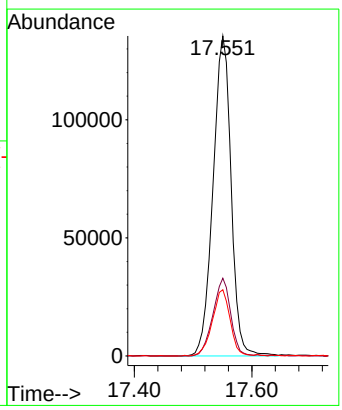
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023



#92
Benzo(g,h,i)perylene
Concen: 20.743 ng
RT: 17.551 min Scan# 2629
Delta R.T. -0.018 min
Lab File: BF133956.D
Acq: 26 Jun 2023 17:02

Tgt Ion:276 Resp: 289189

Ion	Ratio	Lower	Upper
276	100		
277	24.3	19.0	28.6
138	20.7	16.2	24.2



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF062623\
Data File : BF133957.D
Acq On : 26 Jun 2023 17:37
Operator : CG\JU
Sample : SSTDICCC040
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 26 23:04:54 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF062623.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Jun 26 22:39:13 2023
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.851	152	126887	20.000	ng	0.00
21) Naphthalene-d8	8.133	136	465721	20.000	ng	0.00
39) Acenaphthene-d10	9.892	164	236333	20.000	ng	0.00
64) Phenanthrene-d10	11.386	188	467665	20.000	ng	0.00
76) Chrysene-d12	14.045	240	254464	20.000	ng	0.00
86) Perylene-d12	15.545	264	235243	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.481	112	595138	78.458	ng	0.00
7) Phenol-d6	6.492	99	720758	77.263	ng	0.00
23) Nitrobenzene-d5	7.416	82	690294	79.899	ng	0.00
42) 2,4,6-Tribromophenol	10.686	330	234521	79.146	ng	0.00
45) 2-Fluorobiphenyl	9.210	172	1255660	77.247	ng	0.00
79) Terphenyl-d14	12.980	244	1289812	81.577	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.634	88	124727	39.878	ng	100
3) Pyridine	3.416	79	324070	39.646	ng	100
4) n-Nitrosodimethylamine	3.381	42	188539	40.520	ng	100
6) Aniline	6.522	93	453971	39.991	ng	100
8) 2-Chlorophenol	6.639	128	300500	39.025	ng	100
9) Benzaldehyde	6.410	77	205076	40.010	ng	100
10) Phenol	6.504	94	382374	38.985	ng	100
11) bis(2-Chloroethyl)ether	6.592	93	284259	39.365	ng	100
12) 1,3-Dichlorobenzene	6.792	146	321537	39.168	ng	100
13) 1,4-Dichlorobenzene	6.869	146	328019	39.560	ng	100
14) 1,2-Dichlorobenzene	7.022	146	298383	38.424	ng	100
15) Benzyl Alcohol	6.998	79	289645	40.276	ng	100
16) 2,2'-oxybis(1-Chloropr...	7.128	45	502621	39.344	ng	100
17) 2-Methylphenol	7.104	107	273481	39.662	ng	100
18) Hexachloroethane	7.363	117	122369	39.801	ng	100
19) n-Nitroso-di-n-propyla...	7.269	70	225178	38.063	ng	100
20) 3+4-Methylphenols	7.263	107	327318	39.129	ng	100
22) Acetophenone	7.263	105	408898	38.606	ng	100
24) Nitrobenzene	7.439	77	352553	40.382	ng	100
25) Isophorone	7.675	82	615689	39.211	ng	100
26) 2-Nitrophenol	7.751	139	172111	41.094	ng	100
27) 2,4-Dimethylphenol	7.786	122	265878	40.105	ng	100
28) bis(2-Chloroethoxy)met...	7.880	93	364590	40.101	ng	100
29) 2,4-Dichlorophenol	7.992	162	264507	40.235	ng	100
30) 1,2,4-Trichlorobenzene	8.075	180	270031	39.808	ng	100
31) Naphthalene	8.157	128	886027	39.386	ng	100
32) Benzoic acid	7.910	122	213311m	43.786	ng	
33) 4-Chloroaniline	8.204	127	386015	40.114	ng	100
34) Hexachlorobutadiene	8.269	225	170244	39.786	ng	100
35) Caprolactam	8.586	113	87584	40.462	ng	100
36) 4-Chloro-3-methylphenol	8.686	107	293384	39.726	ng	100
37) 2-Methylnaphthalene	8.845	142	620158	38.984	ng	100
38) 1-Methylnaphthalene	8.945	142	573549	38.783	ng	100
40) 1,2,4,5-Tetrachloroben...	9.010	216	276349	39.469	ng	100
41) Hexachlorocyclopentadiene	8.998	237	139206	41.907	ng	100
43) 2,4,6-Trichlorophenol	9.122	196	191122	40.098	ng	100

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF062623\
Data File : BF133957.D
Acq On : 26 Jun 2023 17:37
Operator : CG\JU
Sample : SSTDICCC040
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 26 23:04:54 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF062623.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Jun 26 22:39:13 2023
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.163	196	223598	39.881	ng	100
46) 1,1'-Biphenyl	9.310	154	745049	39.300	ng	100
47) 2-Chloronaphthalene	9.339	162	545525	39.329	ng	100
48) 2-Nitroaniline	9.433	65	203857	40.327	ng	100
49) Acenaphthylene	9.751	152	935197	39.469	ng	100
50) Dimethylphthalate	9.616	163	673727	39.272	ng	100
51) 2,6-Dinitrotoluene	9.680	165	150356	40.692	ng	100
52) Acenaphthene	9.927	154	540093	39.282	ng	100
53) 3-Nitroaniline	9.851	138	177092	39.950	ng	100
54) 2,4-Dinitrophenol	9.957	184	79486	39.314	ng	100
55) Dibenzofuran	10.098	168	851980	39.650	ng	100
56) 4-Nitrophenol	10.010	139	127111	40.995	ng	100
57) 2,4-Dinitrotoluene	10.086	165	197253	40.423	ng	100
58) Fluorene	10.445	166	648880	38.816	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.216	232	174163	39.381	ng	100
60) Diethylphthalate	10.316	149	703590	39.365	ng	100
61) 4-Chlorophenyl-phenyle...	10.433	204	315040	39.105	ng	100
62) 4-Nitroaniline	10.469	138	178179	39.885	ng	100
63) Azobenzene	10.598	77	665555	39.366	ng	100
65) 4,6-Dinitro-2-methylph...	10.498	198	109534	42.960	ng	100
66) n-Nitrosodiphenylamine	10.557	169	587428	39.314	ng	100
67) 4-Bromophenyl-phenylether	10.927	248	199438	40.122	ng	100
68) Hexachlorobenzene	10.992	284	206910	39.204	ng	100
69) Atrazine	11.086	200	156125	37.774	ng	100
70) Pentachlorophenol	11.186	266	131568	41.693	ng	100
71) Phenanthrene	11.410	178	917661	38.978	ng	100
72) Anthracene	11.463	178	948970	38.753	ng	100
73) Carbazole	11.621	167	888414	39.637	ng	100
74) Di-n-butylphthalate	11.951	149	1067648	40.056	ng	100
75) Fluoranthene	12.604	202	985651	38.726	ng	100
77) Benzidine	12.727	184	260760	43.067	ng	100
78) Pyrene	12.833	202	999135	42.191	ng	100
80) Butylbenzylphthalate	13.457	149	367087	41.331	ng	100
81) Benzo(a)anthracene	14.033	228	701787	39.767	ng	100
82) 3,3'-Dichlorobenzidine	13.998	252	218869	39.146	ng	100
83) Chrysene	14.068	228	676271	39.565	ng	100
84) Bis(2-ethylhexyl)phtha...	14.021	149	417864	40.945	ng	100
85) Di-n-octyl phthalate	14.639	149	610110	40.686	ng	100
87) Indeno(1,2,3-cd)pyrene	17.092	276	715327	43.822	ng	100
88) Benzo(b)fluoranthene	15.104	252	555737	40.176	ng	100
89) Benzo(k)fluoranthene	15.133	252	546366	38.795	ng	100
90) Benzo(a)pyrene	15.480	252	535114	40.006	ng	100
91) Dibenzo(a,h)anthracene	17.109	278	583513	43.765	ng	100
92) Benzo(g,h,i)perylene	17.568	276	597174	43.433	ng	100

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

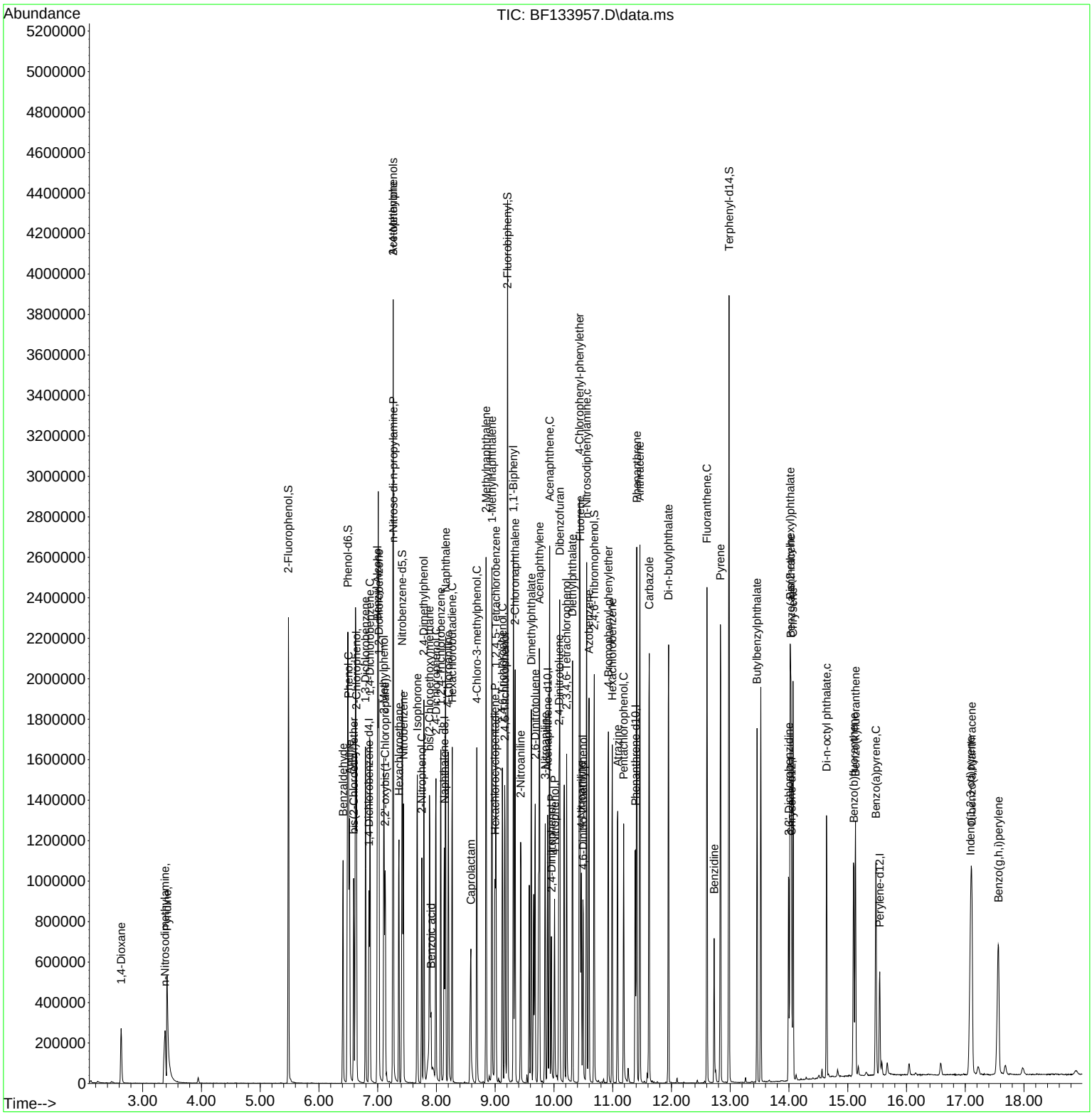
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF062623\
Data File : BF133957.D
Acq On : 26 Jun 2023 17:37
Operator : CG\JU
Sample : SSTDICCC040
Misc :
ALS Vial : 6 Sample Multiplier: 1

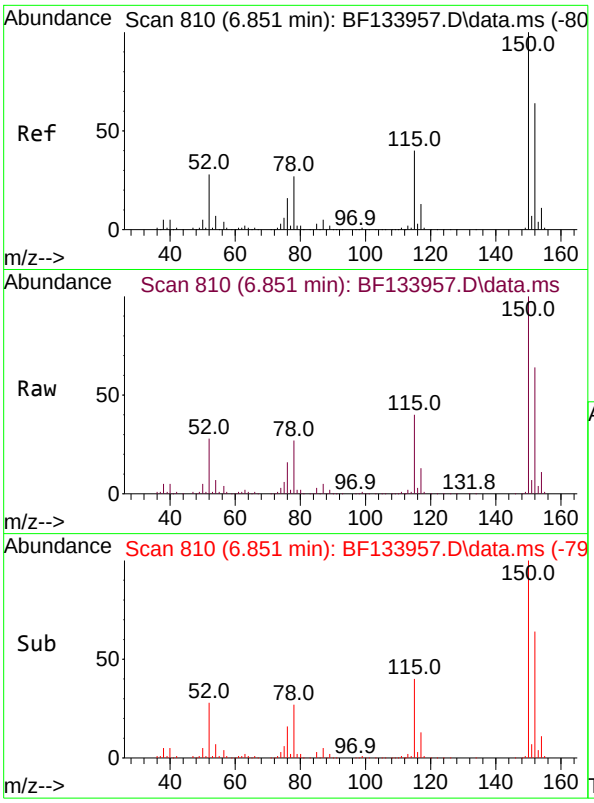
Quant Time: Jun 26 23:04:54 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF062623.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Jun 26 22:39:13 2023
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

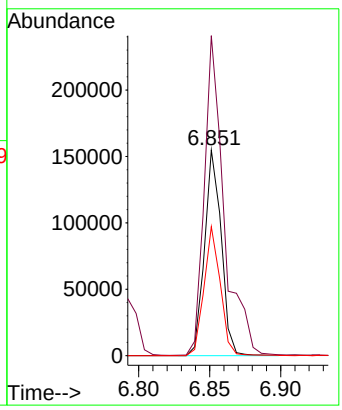




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.851 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF133957.D
Acq: 26 Jun 2023 17:37

Tgt Ion:152 Resp: 12688

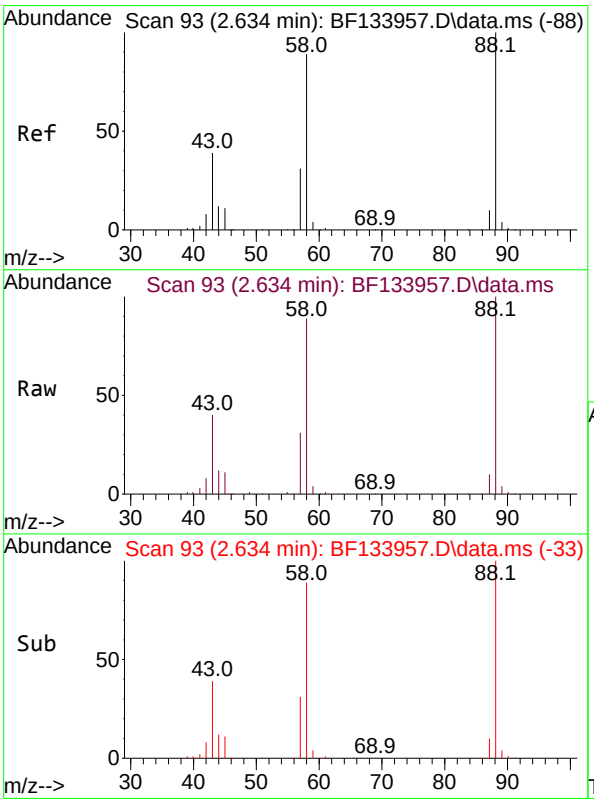
Ion	Ratio	Lower	Upper
152	100		
150	155.6	124.5	186.7
115	62.7	50.2	75.2



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

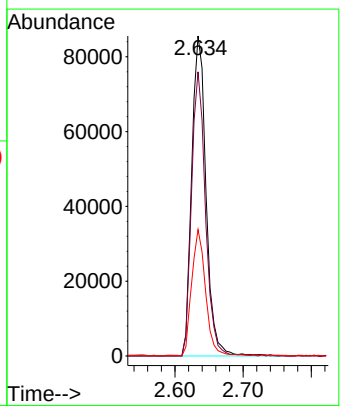
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

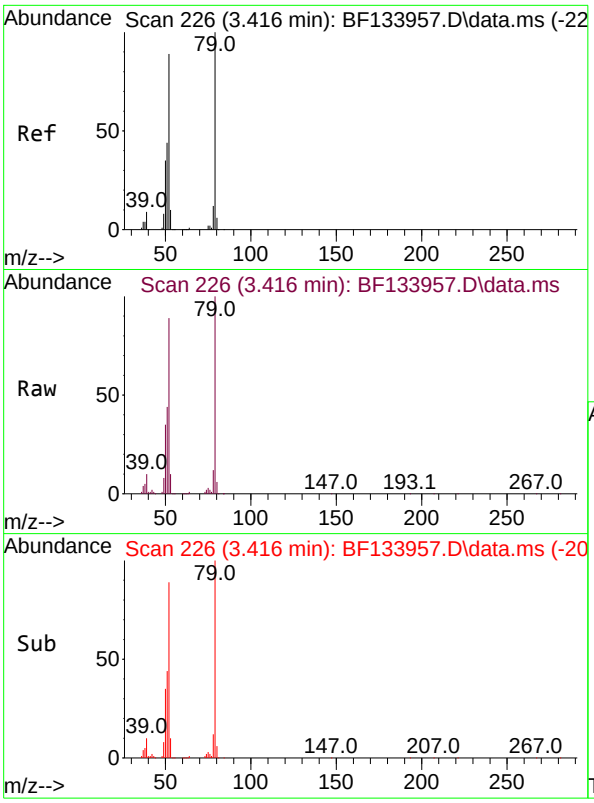


#2
1,4-Dioxane
Concen: 39.878 ng
RT: 2.634 min Scan# 93
Delta R.T. 0.000 min
Lab File: BF133957.D
Acq: 26 Jun 2023 17:37

Tgt Ion: 88 Resp: 124727

Ion	Ratio	Lower	Upper
88	100		
58	86.0	68.8	103.2
43	38.4	30.7	46.1

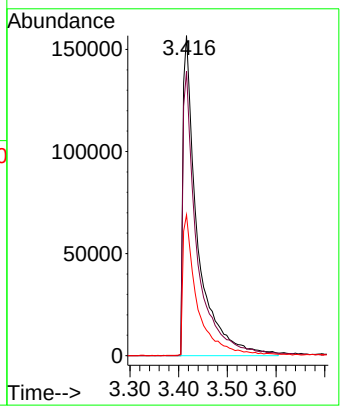




#3
Pyridine
Concen: 39.646 ng
RT: 3.416 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF133957.D
Acq: 26 Jun 2023 17:37

Tgt Ion: 79 Resp: 32407

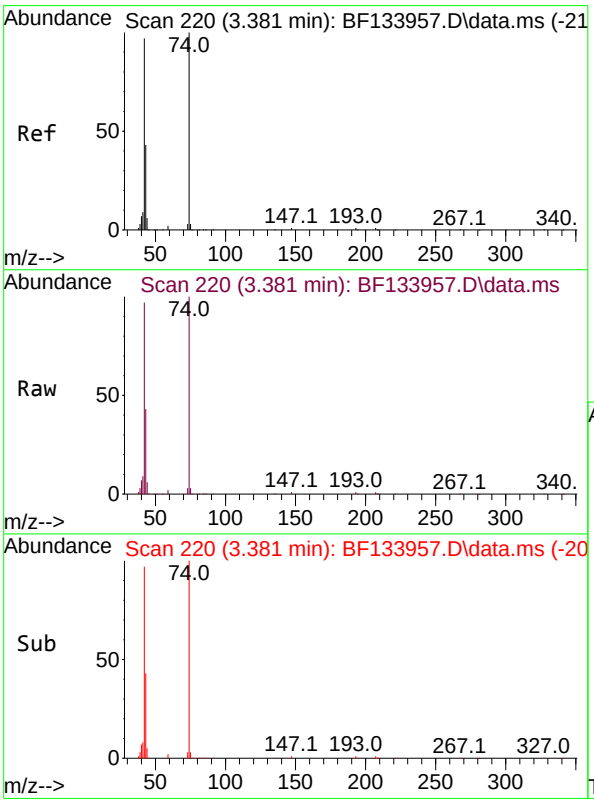
Ion	Ratio	Lower	Upper
79	100		
52	88.9	71.1	106.7
51	44.0	35.2	52.8



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

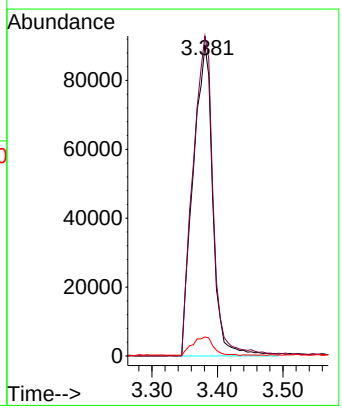
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

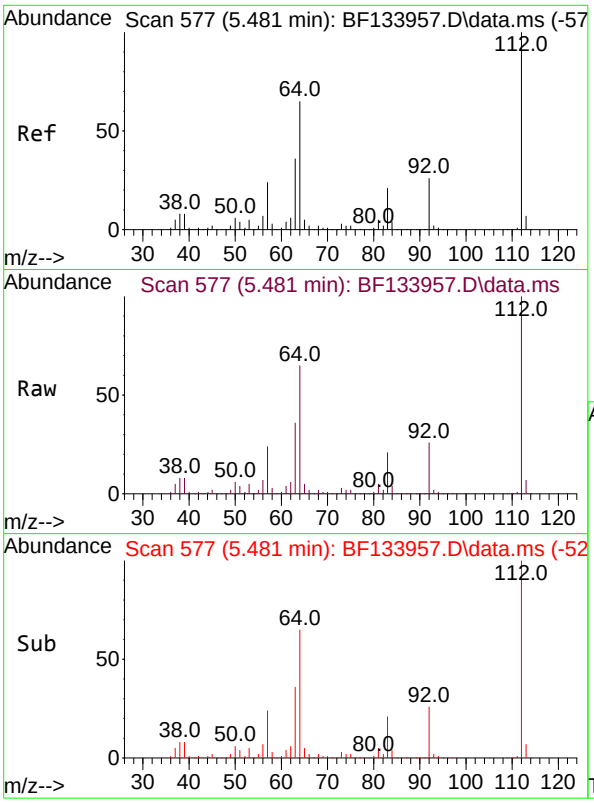


#4
n-Nitrosodimethylamine
Concen: 40.520 ng
RT: 3.381 min Scan# 220
Delta R.T. 0.000 min
Lab File: BF133957.D
Acq: 26 Jun 2023 17:37

Tgt Ion: 42 Resp: 188539

Ion	Ratio	Lower	Upper
42	100		
74	103.0	82.4	123.6
44	6.1	4.9	7.3

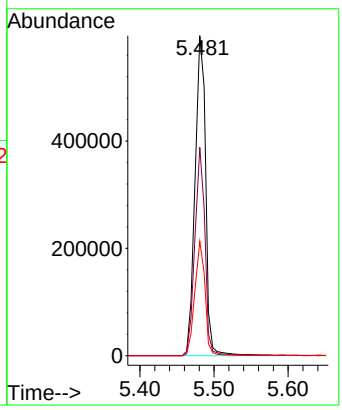




#5
2-Fluorophenol
Concen: 78.458 ng
RT: 5.481 min Scan# 5
Delta R.T. 0.000 min
Lab File: BF133957.D
Acq: 26 Jun 2023 17:37

Tgt Ion:112 Resp: 59513

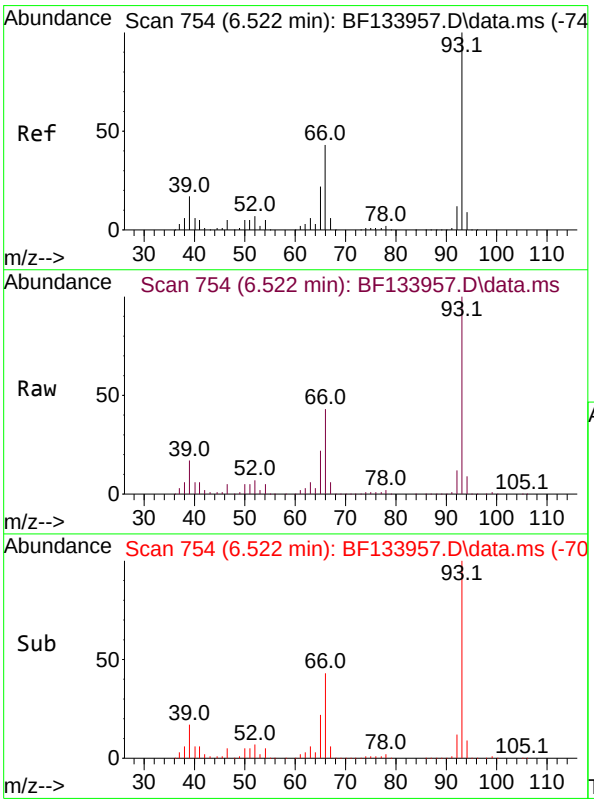
Ion	Ratio	Lower	Upper
112	100		
64	65.1	52.1	78.1
63	35.7	28.6	42.8



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

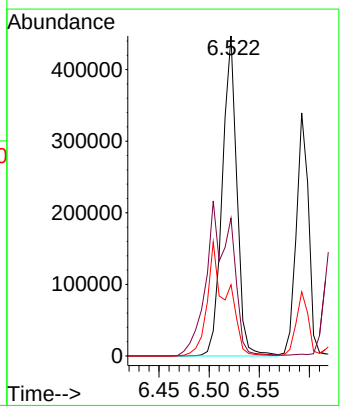
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

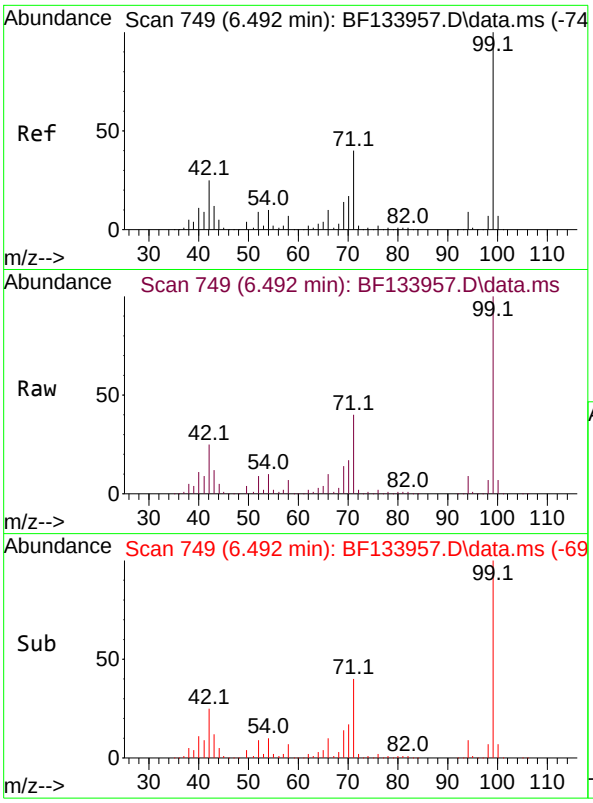


#6
Aniline
Concen: 39.991 ng
RT: 6.522 min Scan# 754
Delta R.T. 0.000 min
Lab File: BF133957.D
Acq: 26 Jun 2023 17:37

Tgt Ion: 93 Resp: 453971

Ion	Ratio	Lower	Upper
93	100		
66	43.1	34.5	51.7
65	22.2	17.8	26.6

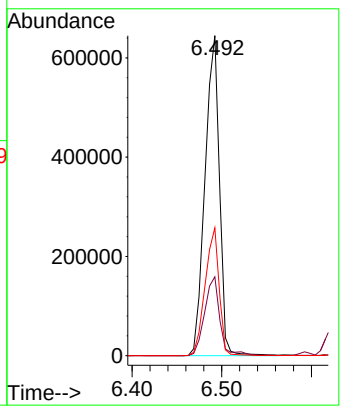




#7
Phenol-d6
Concen: 77.263 ng
RT: 6.492 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF133957.D
Acq: 26 Jun 2023 17:37

Tgt Ion: 99 Resp: 72075

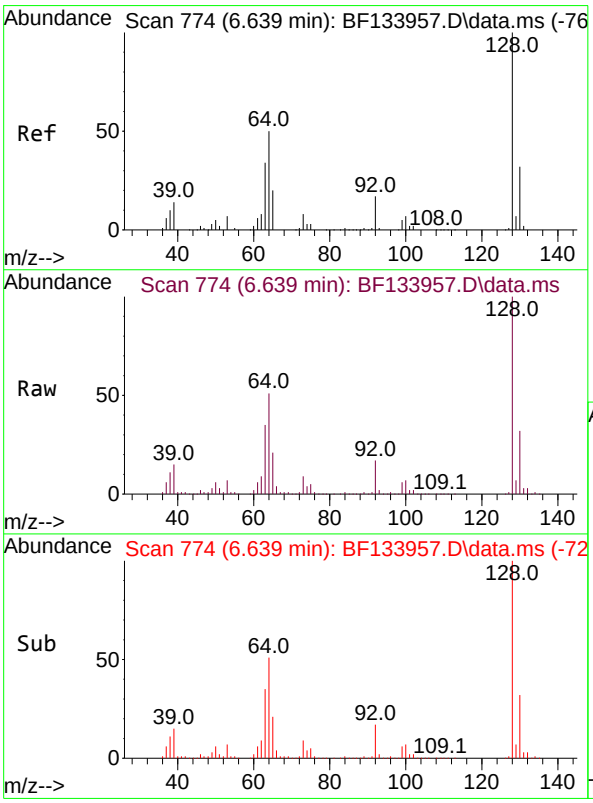
Ion	Ratio	Lower	Upper
99	100		
42	24.7	19.8	29.6
71	39.9	31.9	47.9



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

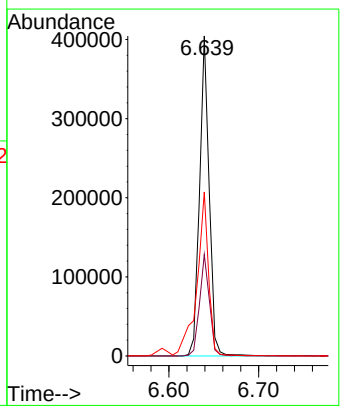
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

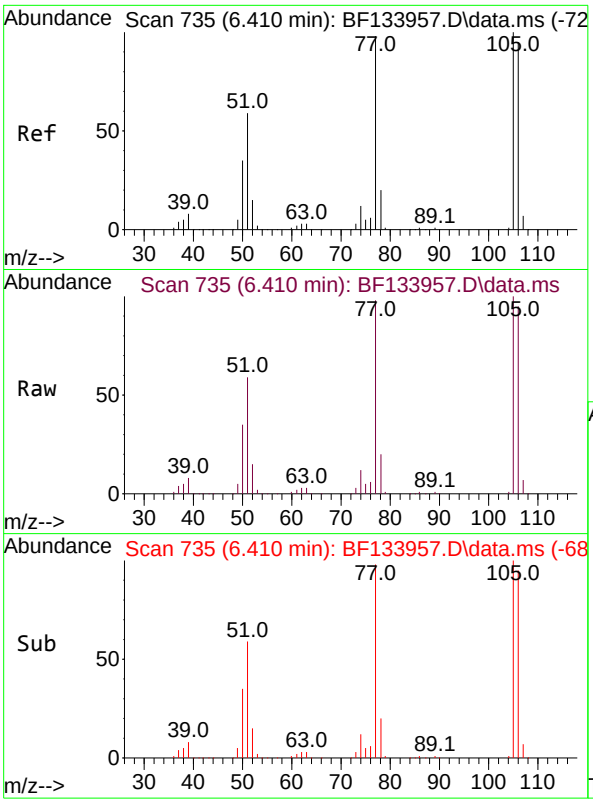


#8
2-Chlorophenol
Concen: 39.025 ng
RT: 6.639 min Scan# 774
Delta R.T. 0.000 min
Lab File: BF133957.D
Acq: 26 Jun 2023 17:37

Tgt Ion:128 Resp: 300500

Ion	Ratio	Lower	Upper
128	100		
130	31.7	11.7	51.7
64	51.3	31.3	71.3

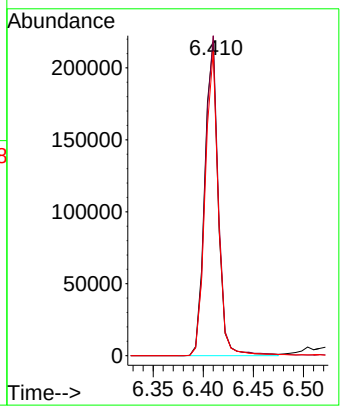




#9
Benzaldehyde
Concen: 40.010 ng
RT: 6.410 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF133957.D
Acq: 26 Jun 2023 17:37

Tgt Ion: 77 Resp: 20507

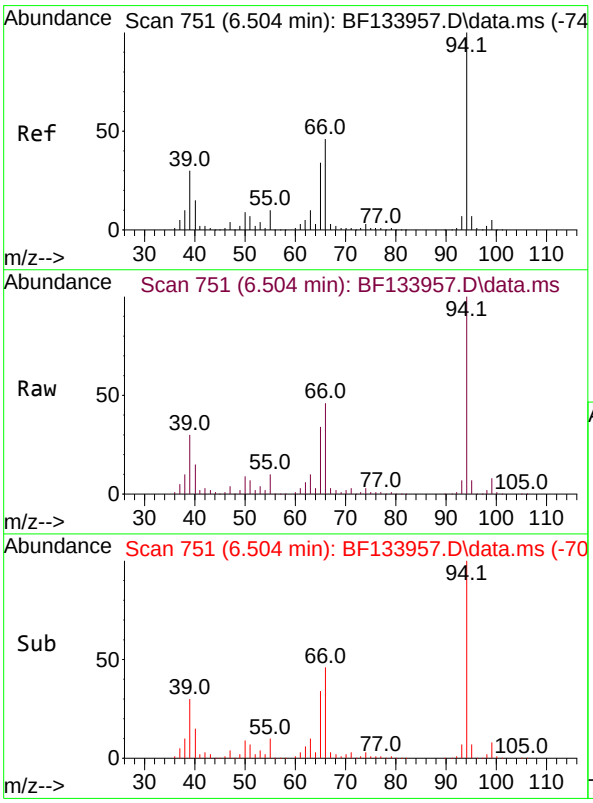
Ion	Ratio	Lower	Upper
77	100		
105	102.0	82.0	122.0
106	96.9	76.9	116.9



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

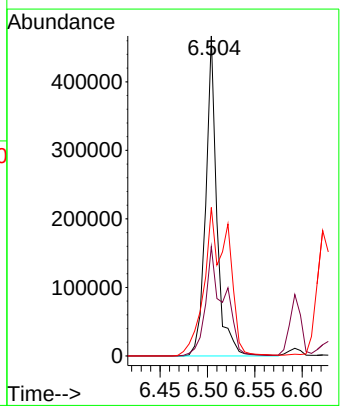
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

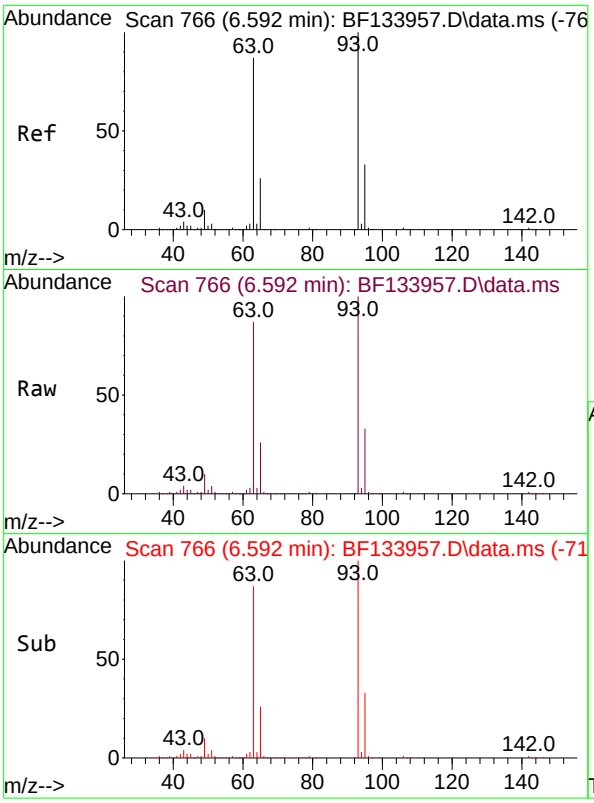


#10
Phenol
Concen: 38.985 ng
RT: 6.504 min Scan# 751
Delta R.T. 0.000 min
Lab File: BF133957.D
Acq: 26 Jun 2023 17:37

Tgt Ion: 94 Resp: 382374

Ion	Ratio	Lower	Upper
94	100		
65	34.2	14.2	54.2
66	46.4	26.4	66.4

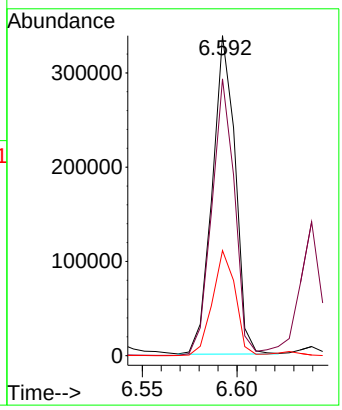




#11
bis(2-Chloroethyl)ether
Concen: 39.365 ng
RT: 6.592 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF133957.D
Acq: 26 Jun 2023 17:37

Tgt Ion: 93 Resp: 28425

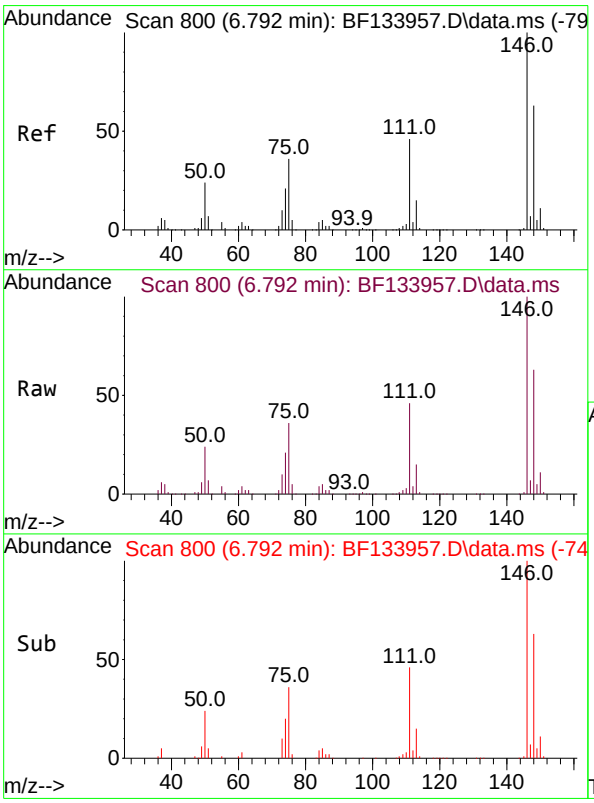
Ion	Ratio	Lower	Upper
93	100		
63	86.5	66.5	106.5
95	32.9	12.9	52.9



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

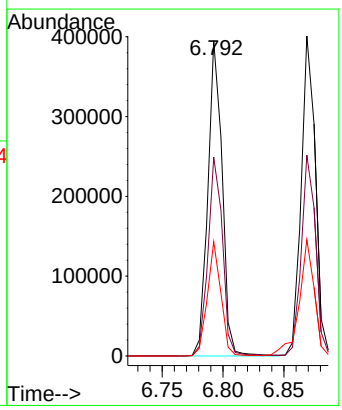
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

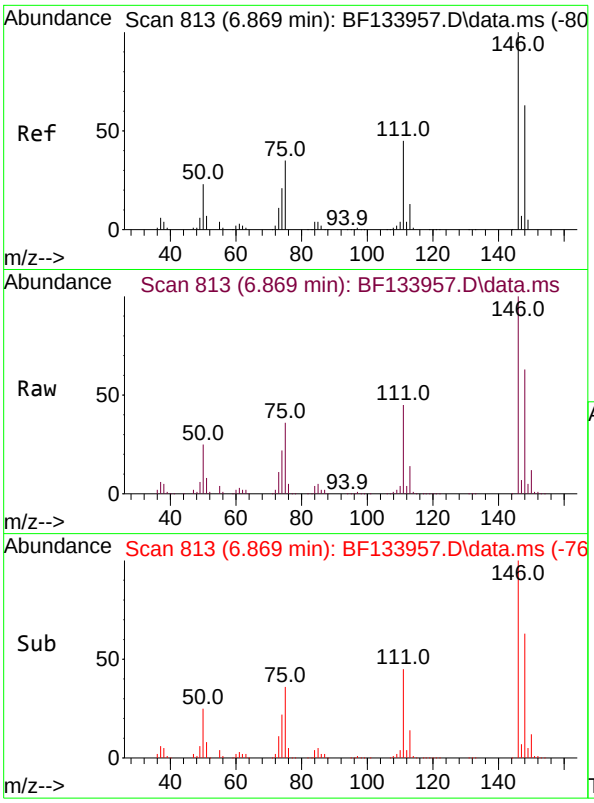


#12
1,3-Dichlorobenzene
Concen: 39.168 ng
RT: 6.792 min Scan# 800
Delta R.T. 0.000 min
Lab File: BF133957.D
Acq: 26 Jun 2023 17:37

Tgt Ion:146 Resp: 321537

Ion	Ratio	Lower	Upper
146	100		
148	63.1	50.5	75.7
75	36.3	29.0	43.6

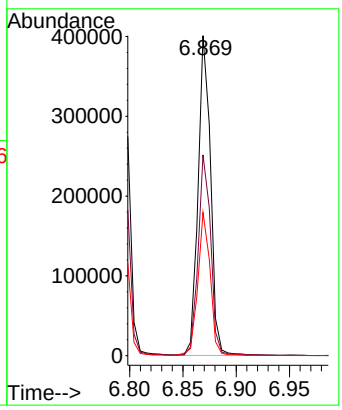




#13
1,4-Dichlorobenzene
Concen: 39.560 ng
RT: 6.869 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF133957.D
Acq: 26 Jun 2023 17:37

Tgt Ion:146 Resp: 32801

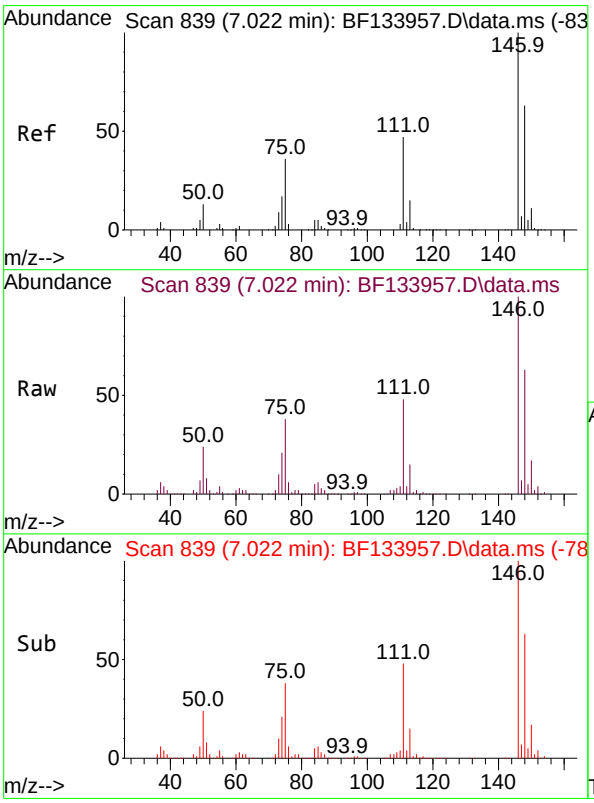
Ion	Ratio	Lower	Upper
146	100		
148	62.7	50.2	75.2
111	44.7	35.8	53.6



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

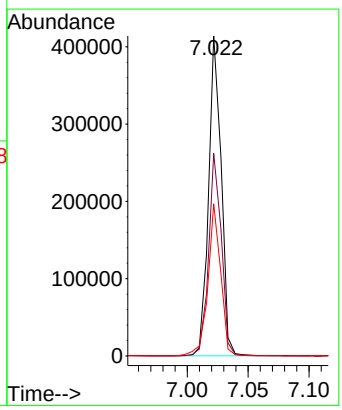
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

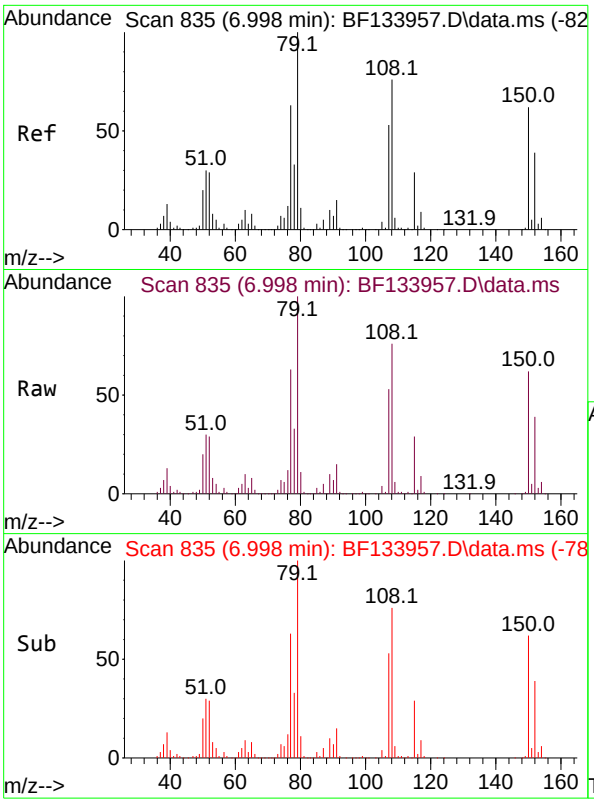


#14
1,2-Dichlorobenzene
Concen: 38.424 ng
RT: 7.022 min Scan# 839
Delta R.T. 0.000 min
Lab File: BF133957.D
Acq: 26 Jun 2023 17:37

Tgt Ion:146 Resp: 298383

Ion	Ratio	Lower	Upper
146	100		
148	63.3	50.6	76.0
111	47.5	38.0	57.0

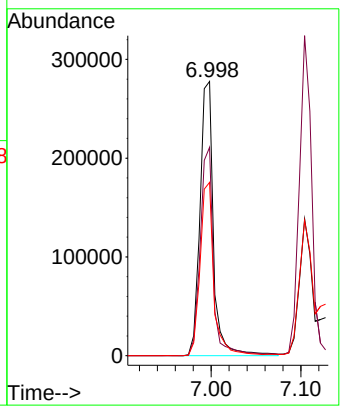




#15
Benzyl Alcohol
Concen: 40.276 ng
RT: 6.998 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF133957.D
Acq: 26 Jun 2023 17:37

Tgt Ion: 79 Resp: 28964

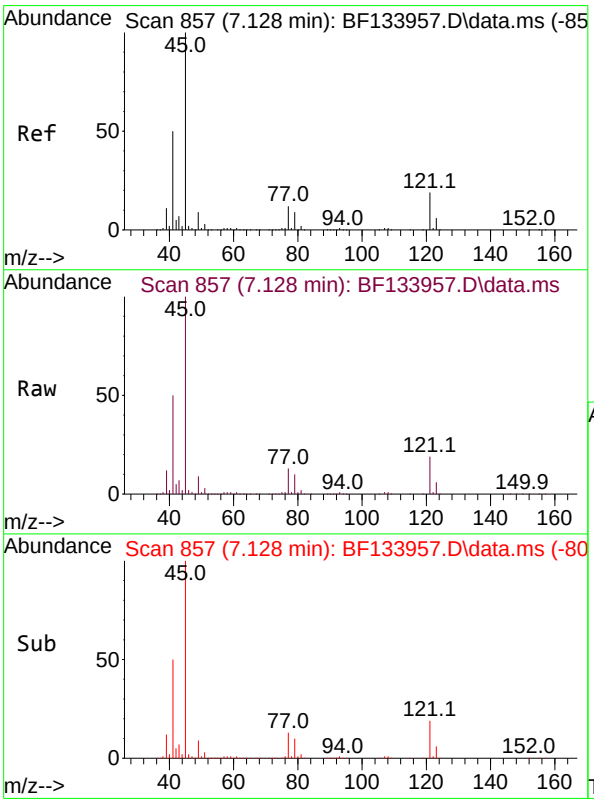
Ion	Ratio	Lower	Upper
79	100		
108	75.9	60.7	91.1
77	63.2	50.6	75.8



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

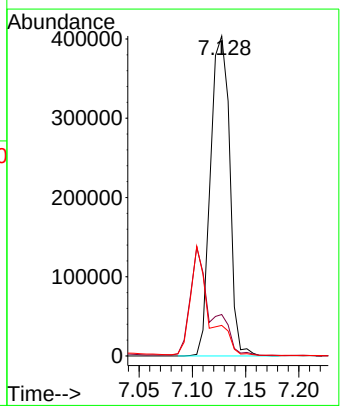
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

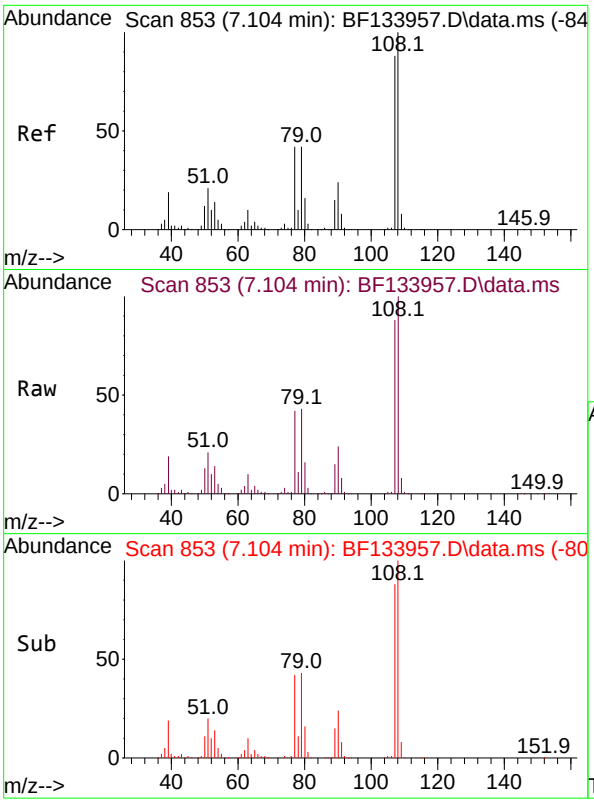


#16
2,2'-oxybis(1-Chloropropane)
Concen: 39.344 ng
RT: 7.128 min Scan# 857
Delta R.T. 0.000 min
Lab File: BF133957.D
Acq: 26 Jun 2023 17:37

Tgt Ion: 45 Resp: 502621

Ion	Ratio	Lower	Upper
45	100		
77	12.9	0.0	32.9
79	9.5	0.0	29.5

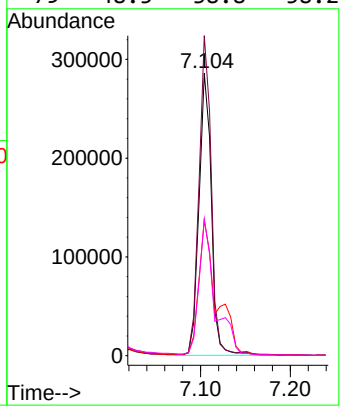




#17
2-Methylphenol
Concen: 39.662 ng
RT: 7.104 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF133957.D
Acq: 26 Jun 2023 17:37

Tgt Ion:107 Resp: 27348

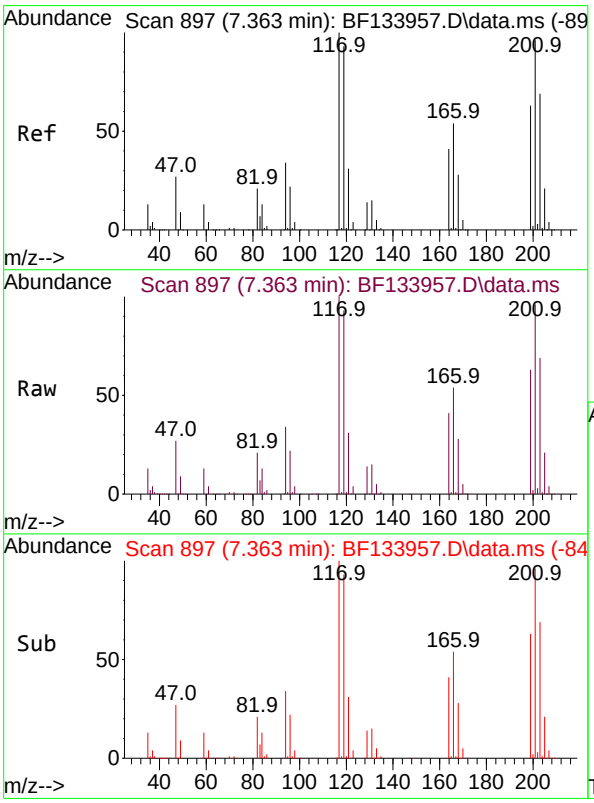
Ion	Ratio	Lower	Upper
107	100		
108	113.3	90.6	136.0
77	47.9	38.3	57.5
79	48.5	38.8	58.2



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

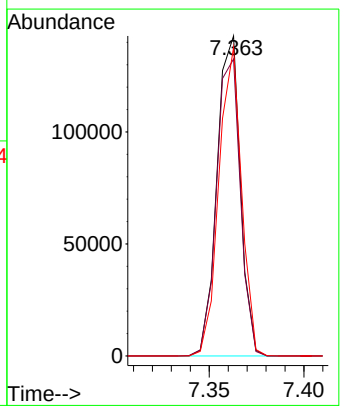
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

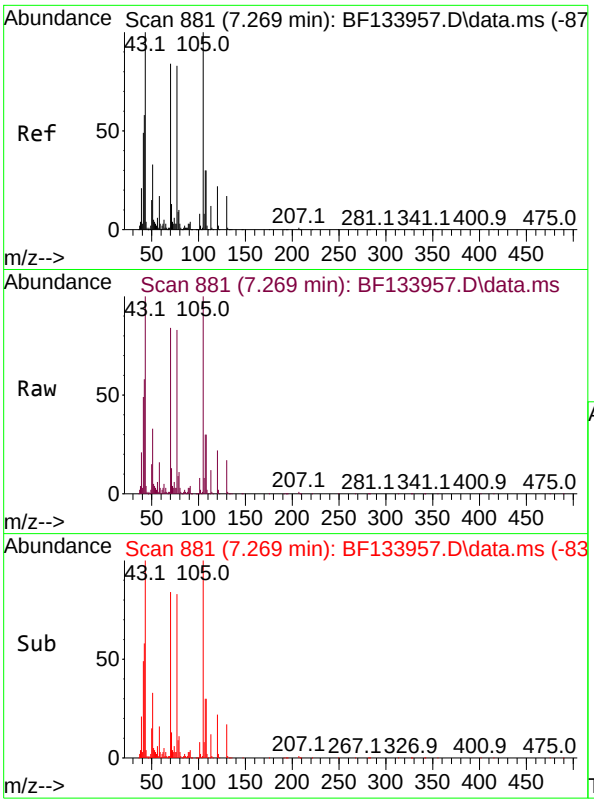


#18
Hexachloroethane
Concen: 39.801 ng
RT: 7.363 min Scan# 897
Delta R.T. 0.000 min
Lab File: BF133957.D
Acq: 26 Jun 2023 17:37

Tgt Ion:117 Resp: 122369

Ion	Ratio	Lower	Upper
117	100		
119	92.8	74.2	111.4
201	96.5	77.2	115.8

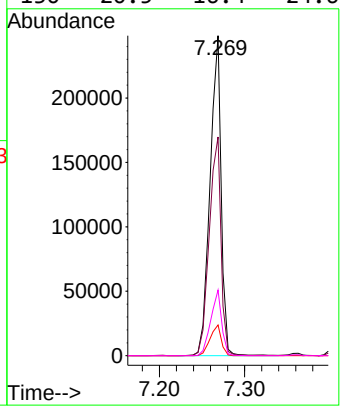




#19
n-Nitroso-di-n-propylamine
Concen: 38.063 ng
RT: 7.269 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF133957.D
Acq: 26 Jun 2023 17:37

Tgt Ion: 70 Resp: 22517

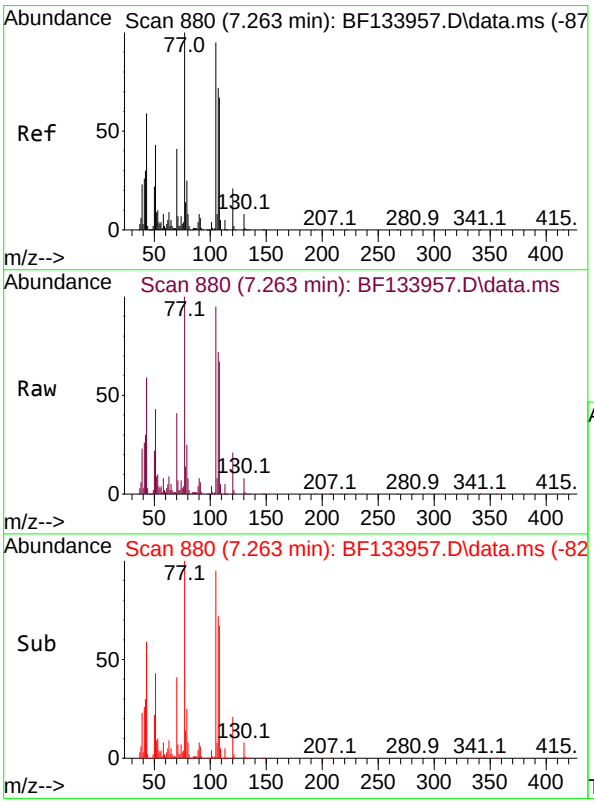
Ion	Ratio	Lower	Upper
70	100		
42	68.4	54.7	82.1
101	9.6	7.7	11.5
130	20.5	16.4	24.6



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

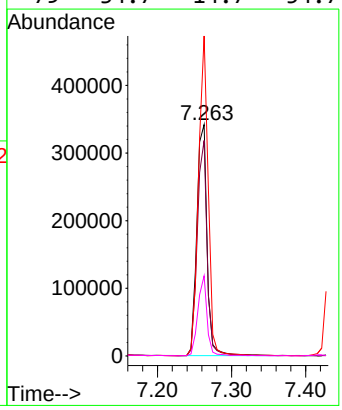
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

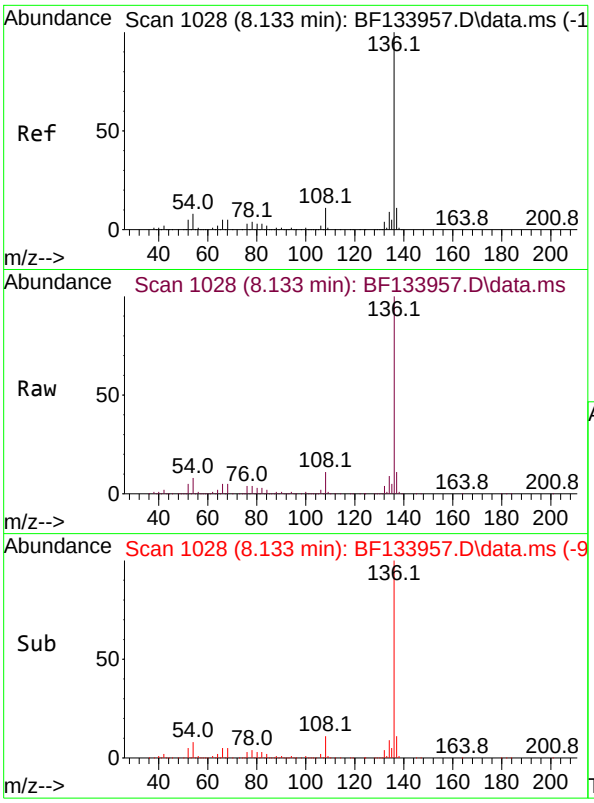


#20
3+4-Methylphenols
Concen: 39.129 ng
RT: 7.263 min Scan# 880
Delta R.T. 0.000 min
Lab File: BF133957.D
Acq: 26 Jun 2023 17:37

Tgt Ion:107 Resp: 327318

Ion	Ratio	Lower	Upper
107	100		
108	93.2	73.2	113.2
77	138.3	118.3	158.3
79	34.7	14.7	54.7

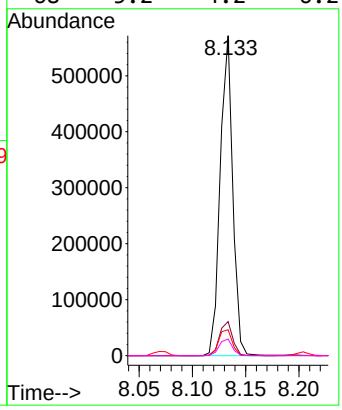




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.133 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF133957.D
Acq: 26 Jun 2023 17:37

Tgt Ion:136 Resp: 46572

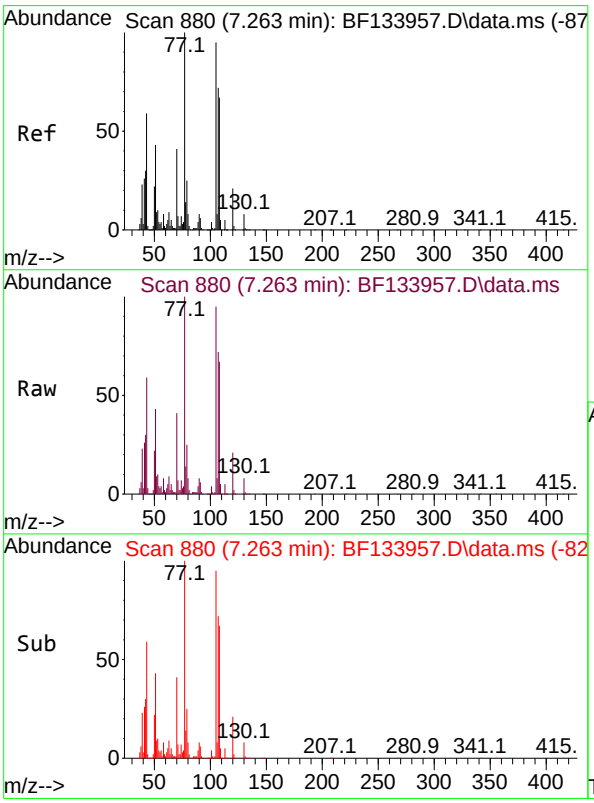
Ion	Ratio	Lower	Upper
136	100		
137	10.7	8.6	12.8
54	8.1	6.5	9.7
68	5.2	4.2	6.2



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

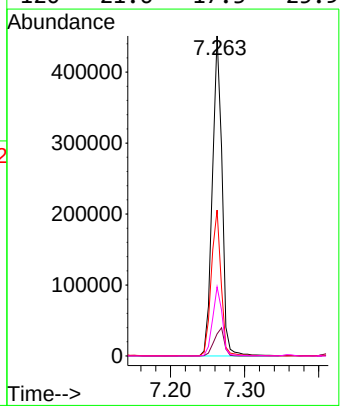
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

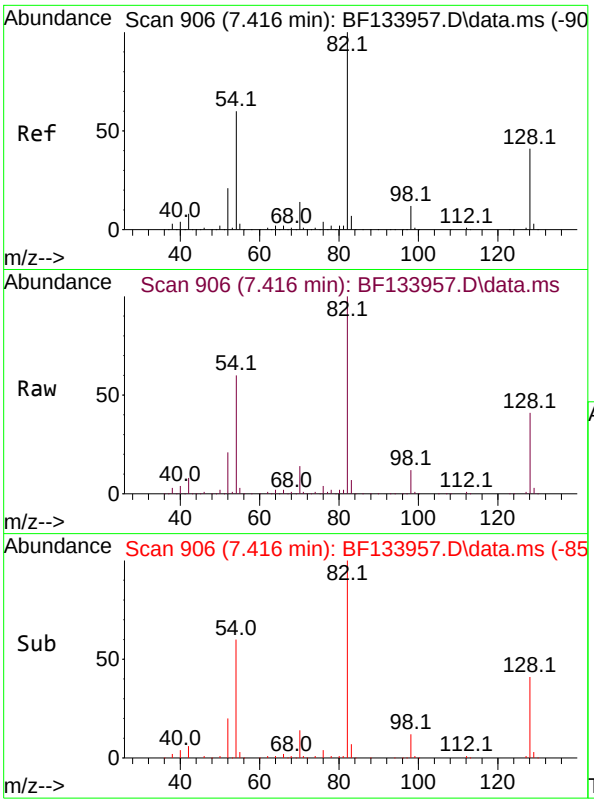


#22
Acetophenone
Concen: 38.606 ng
RT: 7.263 min Scan# 880
Delta R.T. 0.000 min
Lab File: BF133957.D
Acq: 26 Jun 2023 17:37

Tgt Ion:105 Resp: 408898

Ion	Ratio	Lower	Upper
105	100		
71	6.9	5.5	8.3
51	45.6	36.5	54.7
120	21.6	17.3	25.9

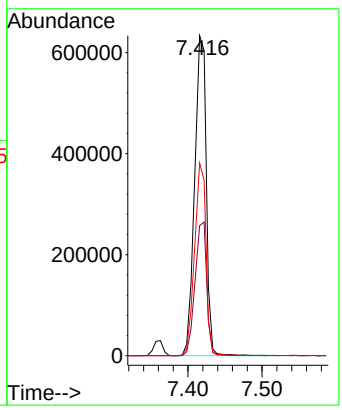




#23
Nitrobenzene-d5
Concen: 79.899 ng
RT: 7.416 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF133957.D
Acq: 26 Jun 2023 17:37

Tgt Ion: 82 Resp: 69029

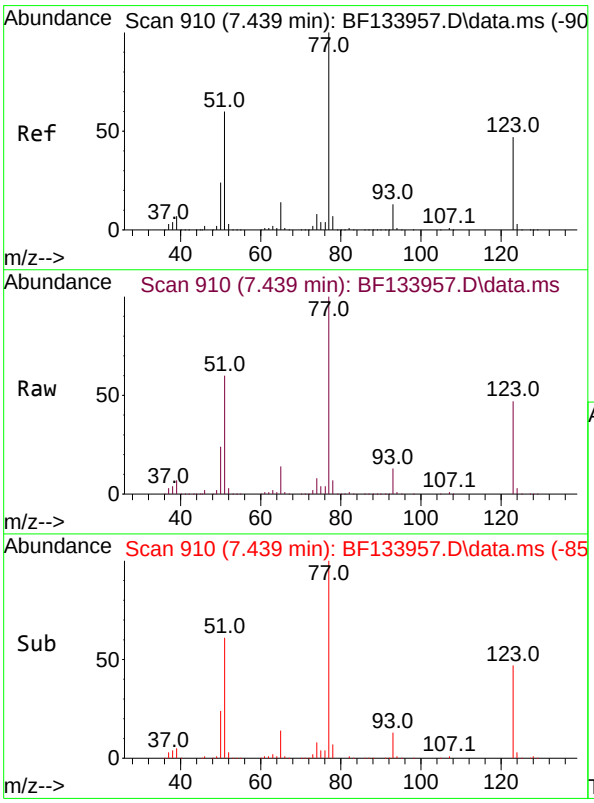
Ion	Ratio	Lower	Upper
82	100		
128	40.6	32.5	48.7
54	60.2	48.2	72.2



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

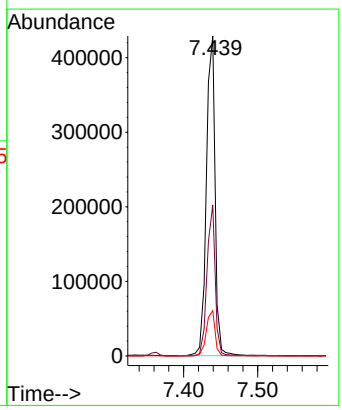
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

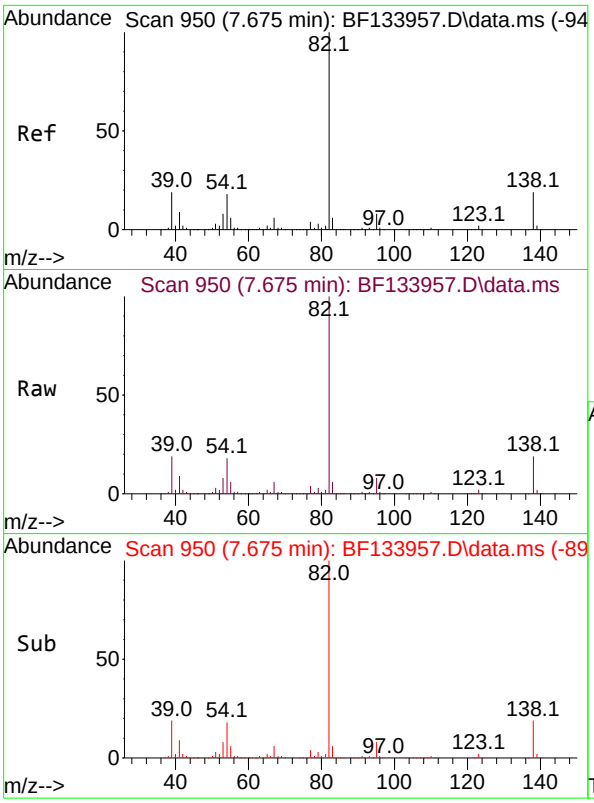


#24
Nitrobenzene
Concen: 40.382 ng
RT: 7.439 min Scan# 910
Delta R.T. 0.000 min
Lab File: BF133957.D
Acq: 26 Jun 2023 17:37

Tgt Ion: 77 Resp: 352553

Ion	Ratio	Lower	Upper
77	100		
123	47.2	37.8	56.6
65	14.1	11.3	16.9

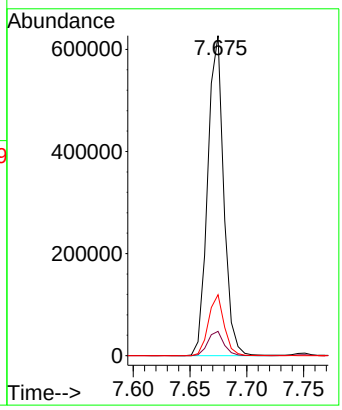




#25
Isophorone
Concen: 39.211 ng
RT: 7.675 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF133957.D
Acq: 26 Jun 2023 17:37

Tgt Ion: 82 Resp: 61568

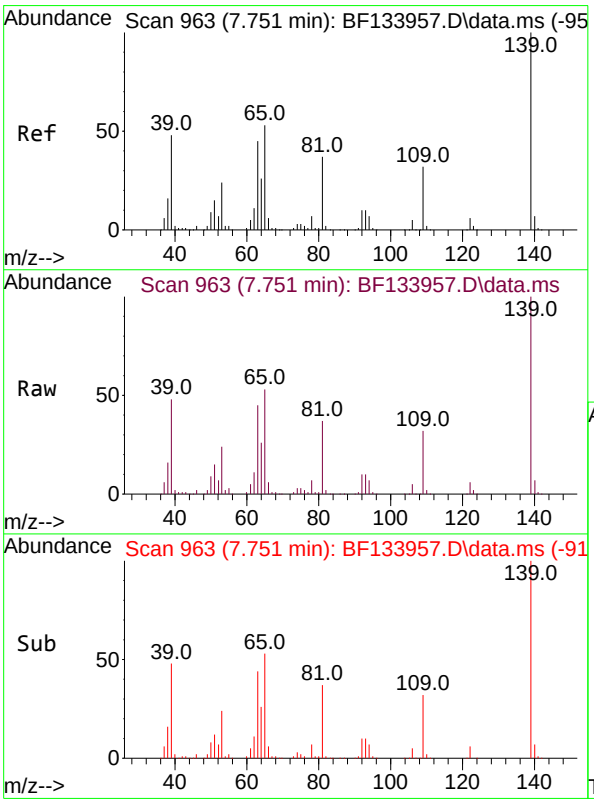
Ion	Ratio	Lower	Upper
82	100		
95	7.6	6.1	9.1
138	19.0	15.2	22.8



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

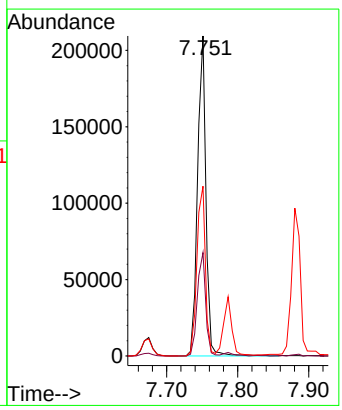
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

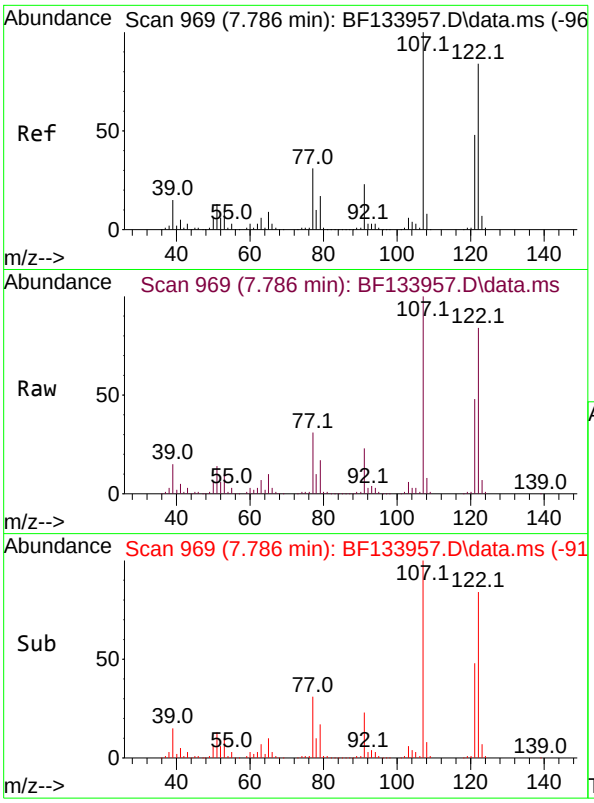


#26
2-Nitrophenol
Concen: 41.094 ng
RT: 7.751 min Scan# 963
Delta R.T. 0.000 min
Lab File: BF133957.D
Acq: 26 Jun 2023 17:37

Tgt Ion:139 Resp: 172111

Ion	Ratio	Lower	Upper
139	100		
109	32.3	25.8	38.8
65	53.0	42.4	63.6

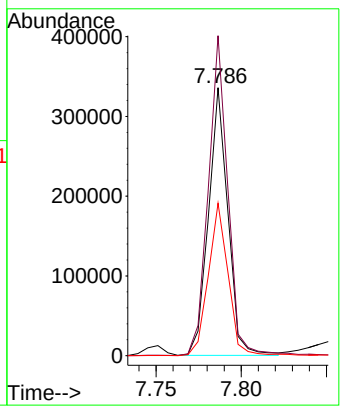




#27
2,4-Dimethylphenol
Concen: 40.105 ng
RT: 7.786 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF133957.D
Acq: 26 Jun 2023 17:37

Tgt Ion:122 Resp: 26587

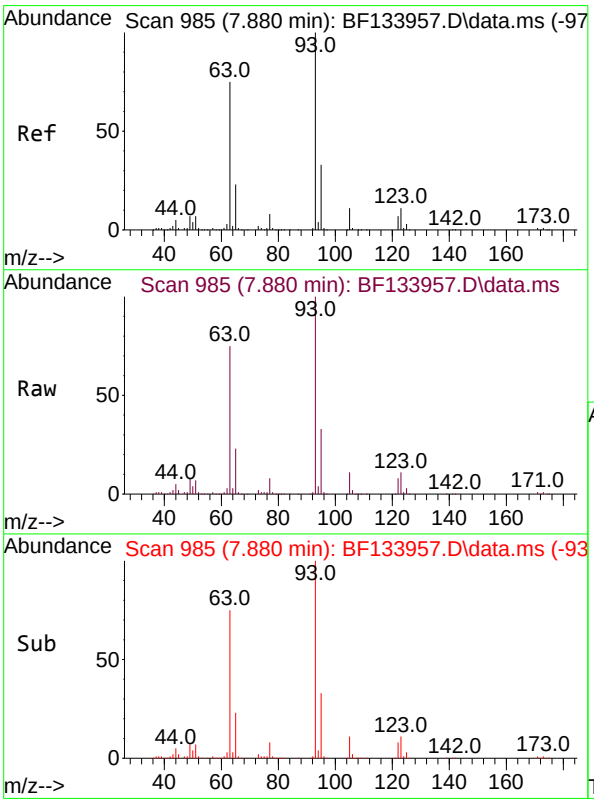
Ion	Ratio	Lower	Upper
122	100		
107	119.4	95.5	143.3
121	56.9	45.5	68.3



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

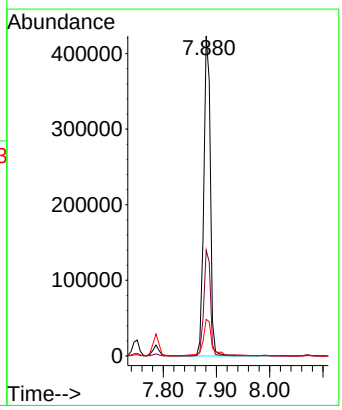
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

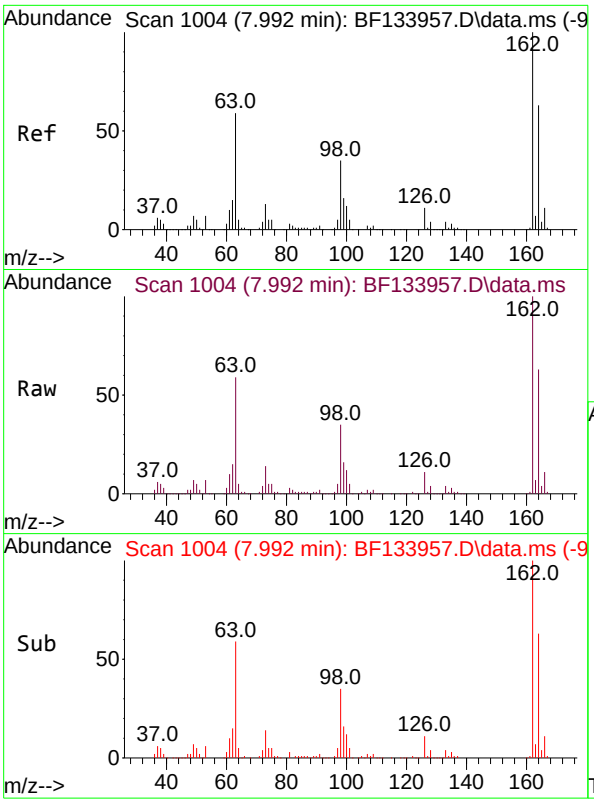


#28
bis(2-Chloroethoxy)methane
Concen: 40.101 ng
RT: 7.880 min Scan# 985
Delta R.T. 0.000 min
Lab File: BF133957.D
Acq: 26 Jun 2023 17:37

Tgt Ion: 93 Resp: 364590

Ion	Ratio	Lower	Upper
93	100		
95	33.1	26.5	39.7
123	11.4	9.1	13.7





#29
2,4-Dichlorophenol
Concen: 40.235 ng
RT: 7.992 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF133957.D
Acq: 26 Jun 2023 17:37

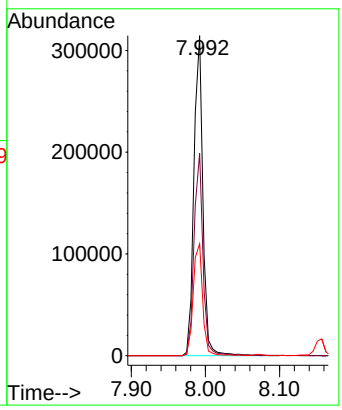
Tgt Ion:162 Resp: 26450

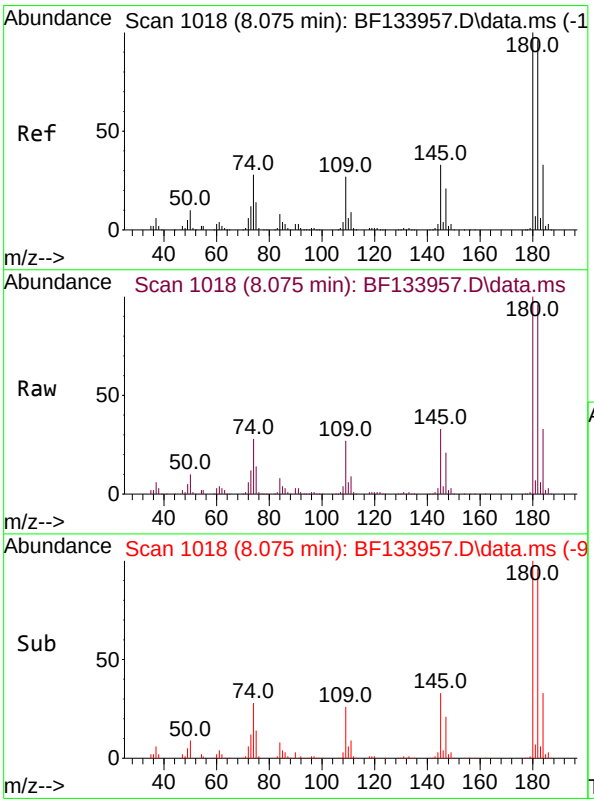
Ion	Ratio	Lower	Upper
162	100		
164	63.2	43.2	83.2
98	34.9	14.9	54.9

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

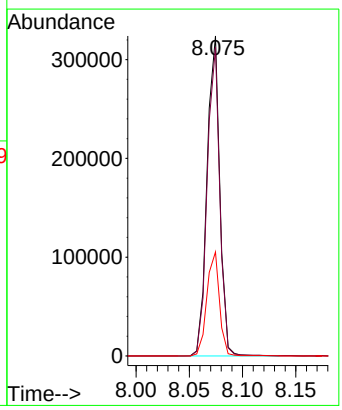


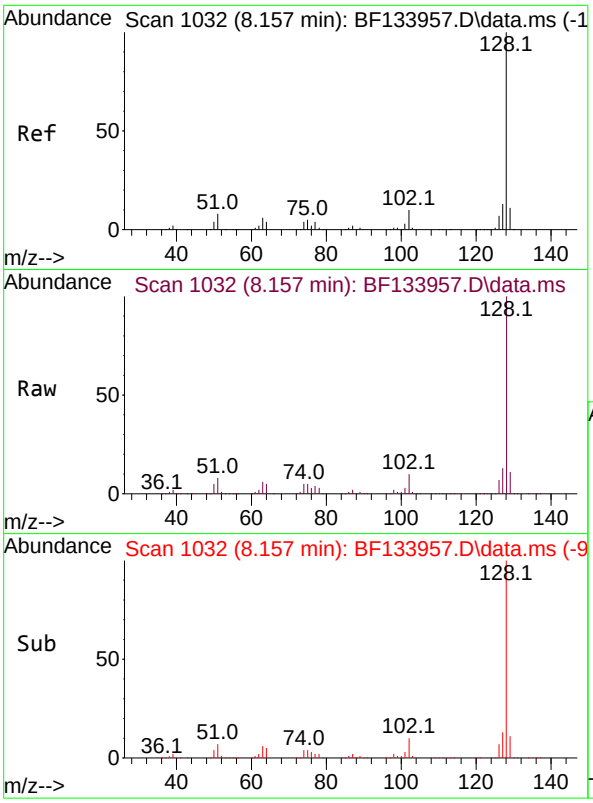


#30
1,2,4-Trichlorobenzene
Concen: 39.808 ng
RT: 8.075 min Scan# 1018
Delta R.T. 0.000 min
Lab File: BF133957.D
Acq: 26 Jun 2023 17:37

Tgt Ion:180 Resp: 270031

Ion	Ratio	Lower	Upper
180	100		
182	96.4	77.1	115.7
145	32.5	26.0	39.0

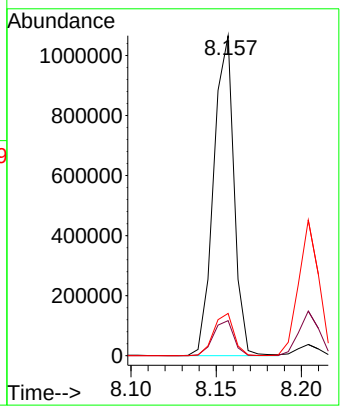




#31
Naphthalene
Concen: 39.386 ng
RT: 8.157 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF133957.D
Acq: 26 Jun 2023 17:37

Tgt Ion:128 Resp: 88602

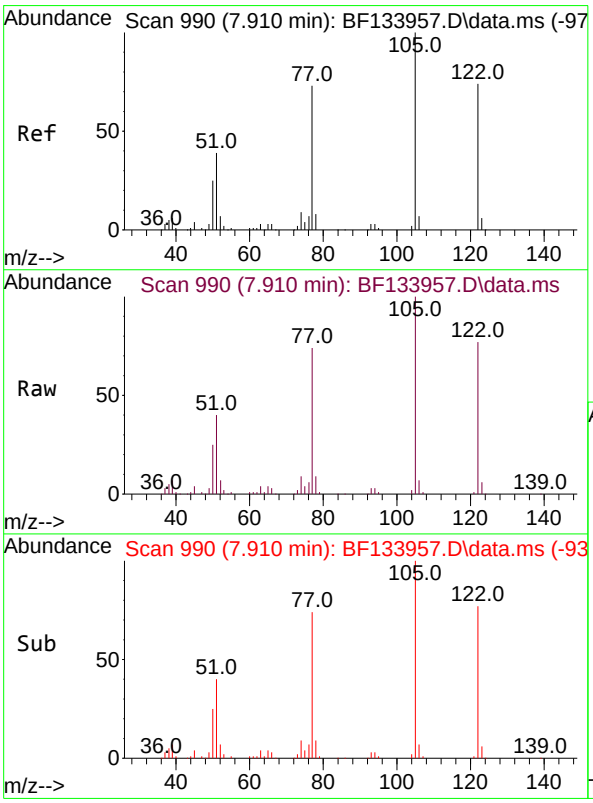
Ion	Ratio	Lower	Upper
128	100		
129	10.9	8.7	13.1
127	13.2	10.6	15.8



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

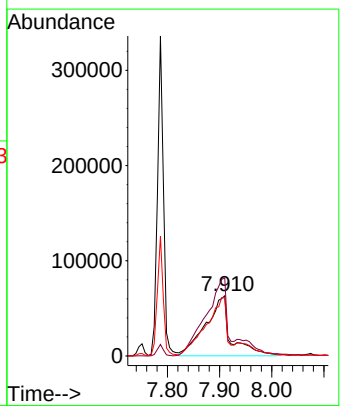
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

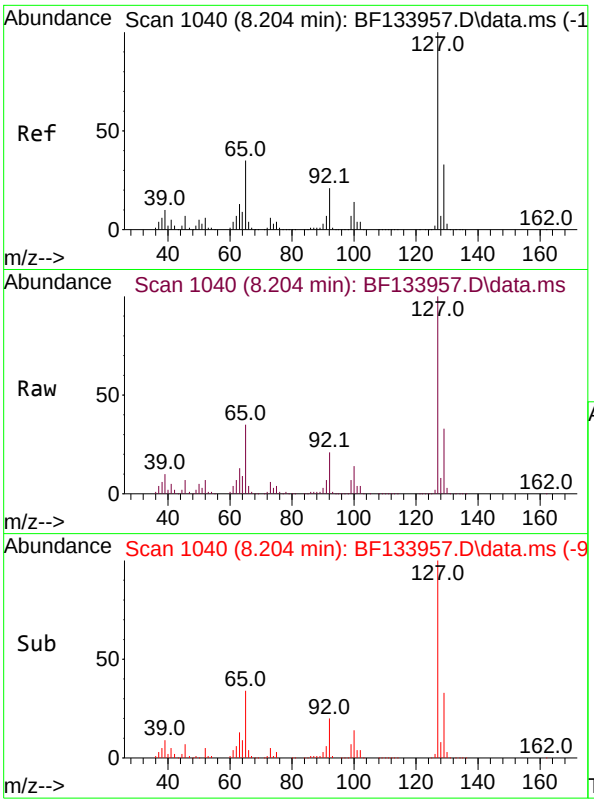


#32
Benzoic acid
Concen: 43.786 ng m
RT: 7.910 min Scan# 990
Delta R.T. 0.000 min
Lab File: BF133957.D
Acq: 26 Jun 2023 17:37

Tgt Ion:122 Resp: 213311

Ion	Ratio	Lower	Upper
122	100		
105	129.7	109.7	149.7
77	96.0	76.0	116.0

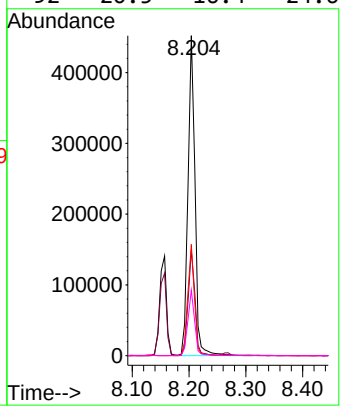




#33
4-Chloroaniline
Concen: 40.114 ng
RT: 8.204 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF133957.D
Acq: 26 Jun 2023 17:37

Tgt Ion:127 Resp: 38601

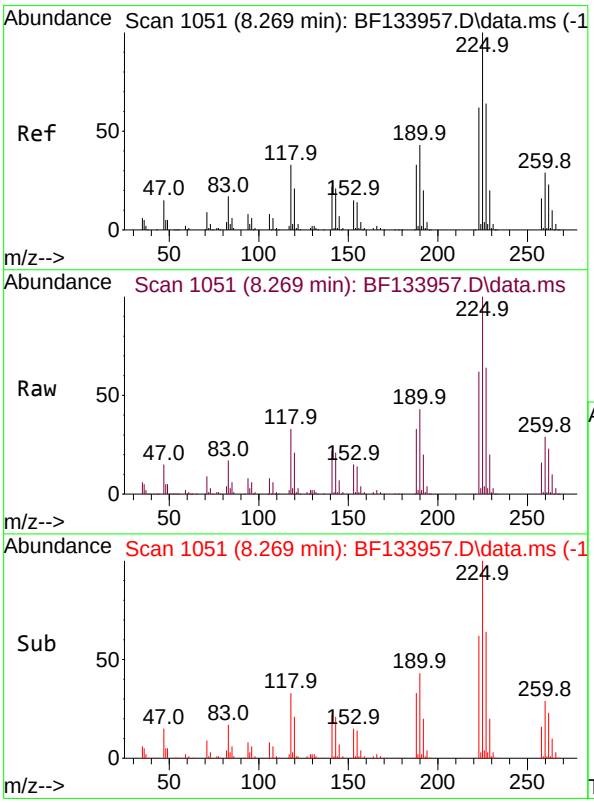
Ion	Ratio	Lower	Upper
127	100		
129	33.0	26.4	39.6
65	34.8	27.8	41.8
92	20.5	16.4	24.6



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

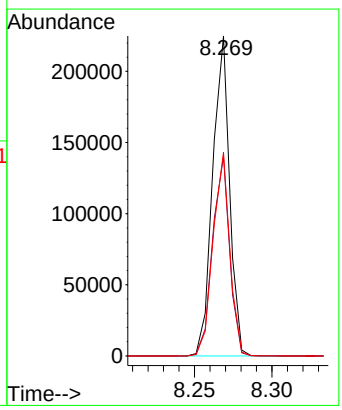
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

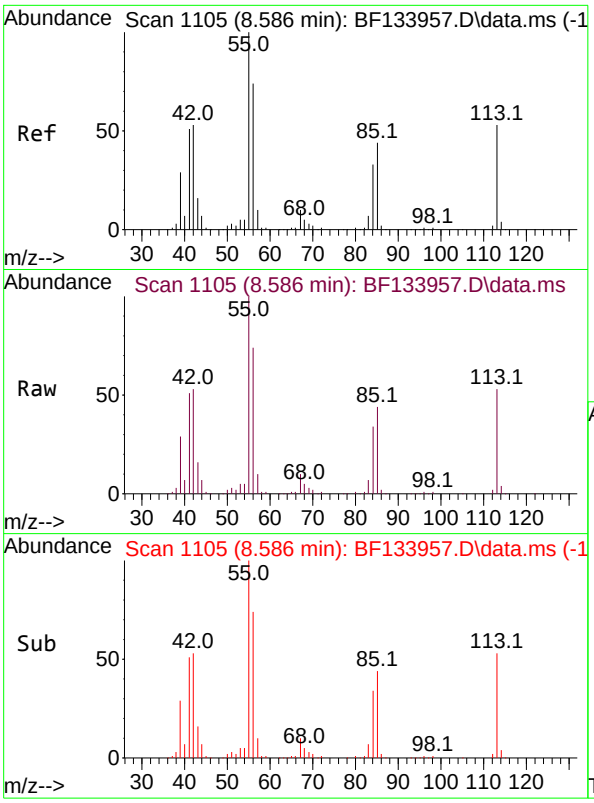


#34
Hexachlorobutadiene
Concen: 39.786 ng
RT: 8.269 min Scan# 1051
Delta R.T. 0.000 min
Lab File: BF133957.D
Acq: 26 Jun 2023 17:37

Tgt Ion:225 Resp: 170244

Ion	Ratio	Lower	Upper
225	100		
223	62.3	49.8	74.8
227	63.7	51.0	76.4

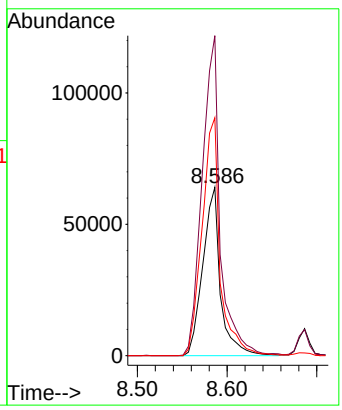




#35
Caprolactam
Concen: 40.462 ng
RT: 8.586 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF133957.D
Acq: 26 Jun 2023 17:37

Tgt Ion:113 Resp: 8758

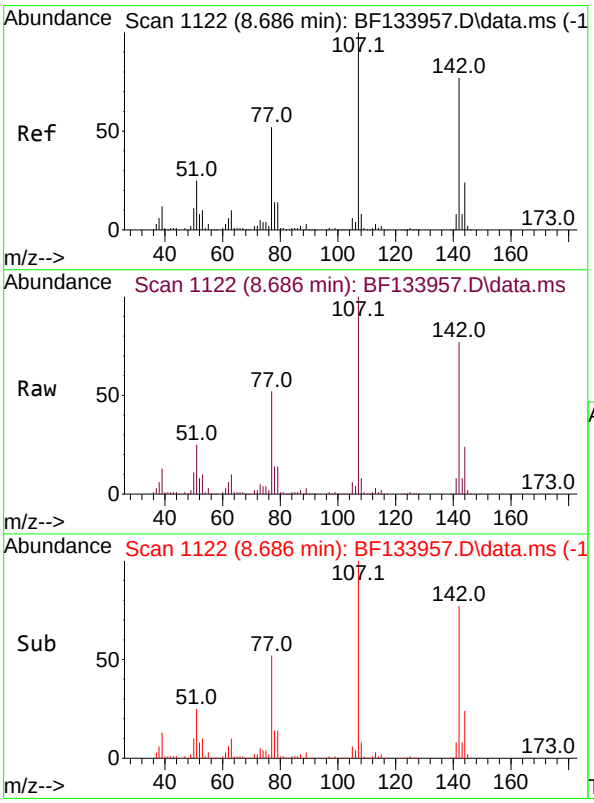
Ion	Ratio	Lower	Upper
113	100		
55	190.2	170.2	210.2
56	141.4	121.4	161.4



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

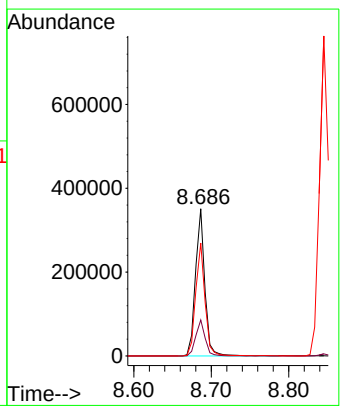
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

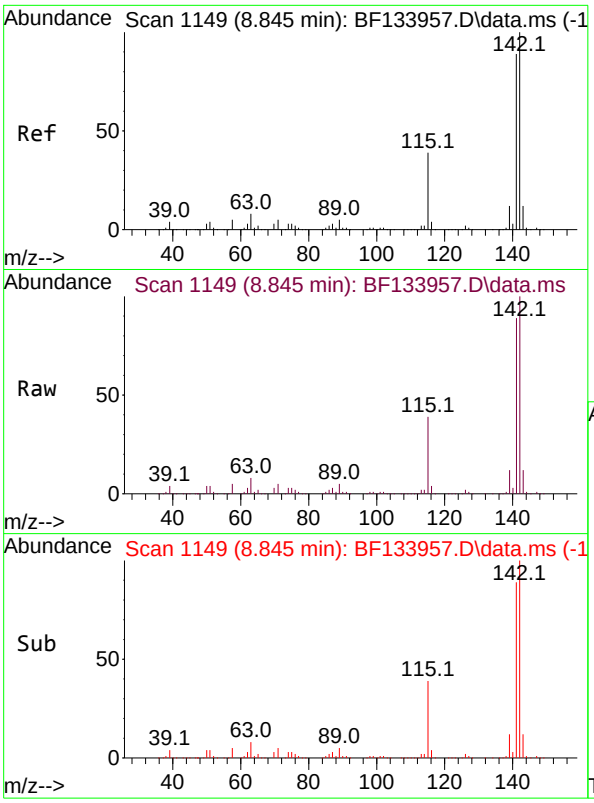


#36
4-Chloro-3-methylphenol
Concen: 39.726 ng
RT: 8.686 min Scan# 1122
Delta R.T. 0.000 min
Lab File: BF133957.D
Acq: 26 Jun 2023 17:37

Tgt Ion:107 Resp: 293384

Ion	Ratio	Lower	Upper
107	100		
144	24.5	19.6	29.4
142	76.8	61.4	92.2

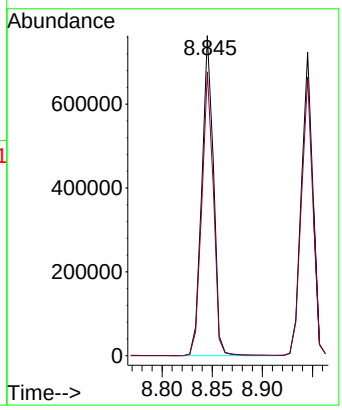




#37
2-Methylnaphthalene
Concen: 38.984 ng
RT: 8.845 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF133957.D
Acq: 26 Jun 2023 17:37

Tgt Ion:142 Resp: 62015

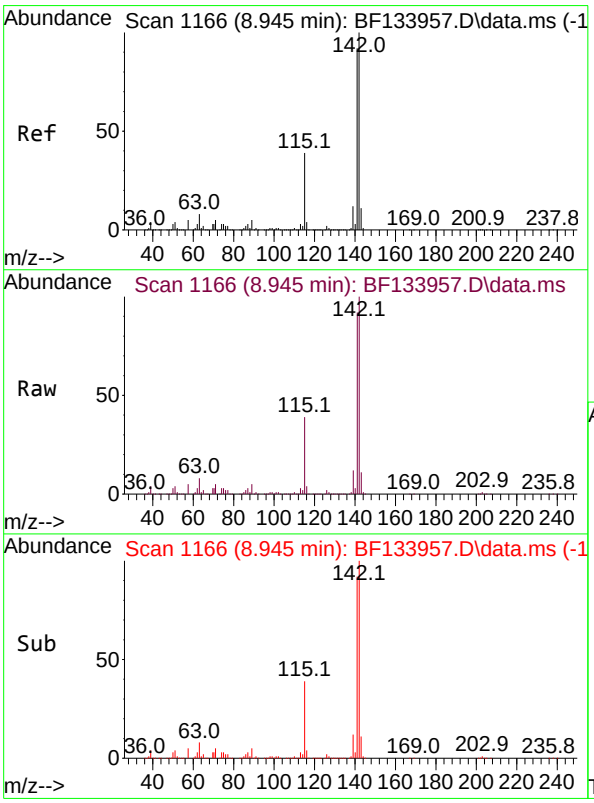
Ion	Ratio	Lower	Upper
142	100		
141	88.7	71.0	106.4



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

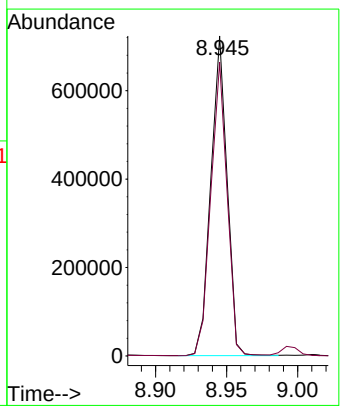
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

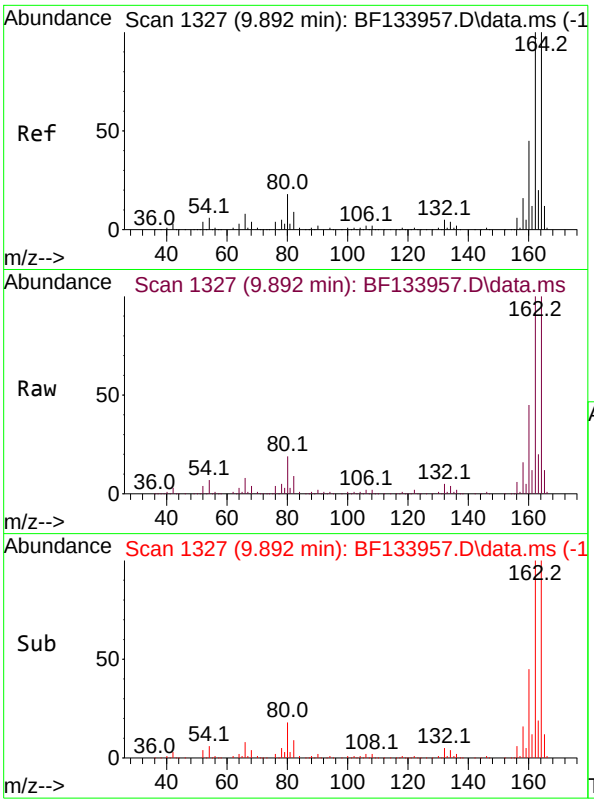


#38
1-Methylnaphthalene
Concen: 38.783 ng
RT: 8.945 min Scan# 1166
Delta R.T. 0.000 min
Lab File: BF133957.D
Acq: 26 Jun 2023 17:37

Tgt Ion:142 Resp: 573549

Ion	Ratio	Lower	Upper
142	100		
141	91.9	73.5	110.3

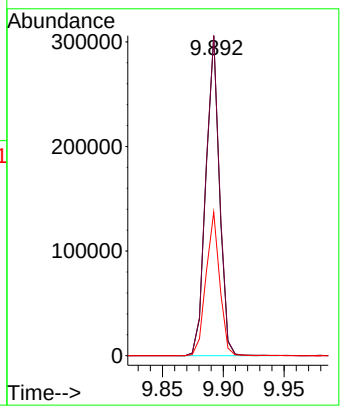




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.892 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF133957.D
Acq: 26 Jun 2023 17:37

Tgt Ion:164 Resp: 23633

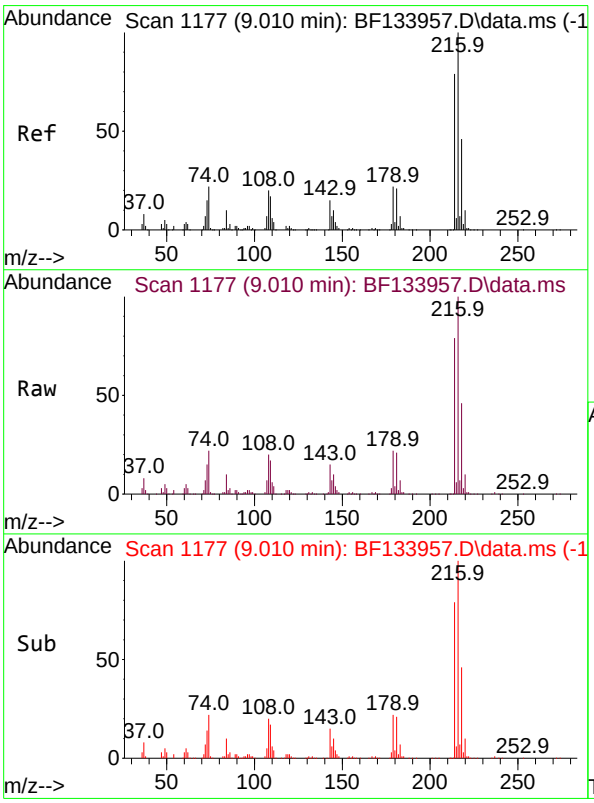
Ion	Ratio	Lower	Upper
164	100		
162	100.0	80.0	120.0
160	44.9	35.9	53.9



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

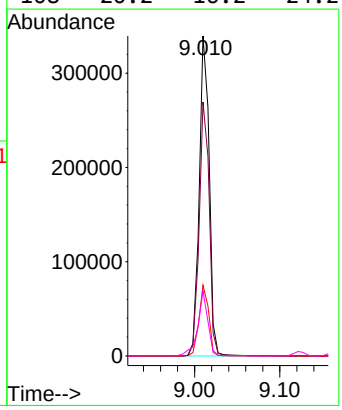
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

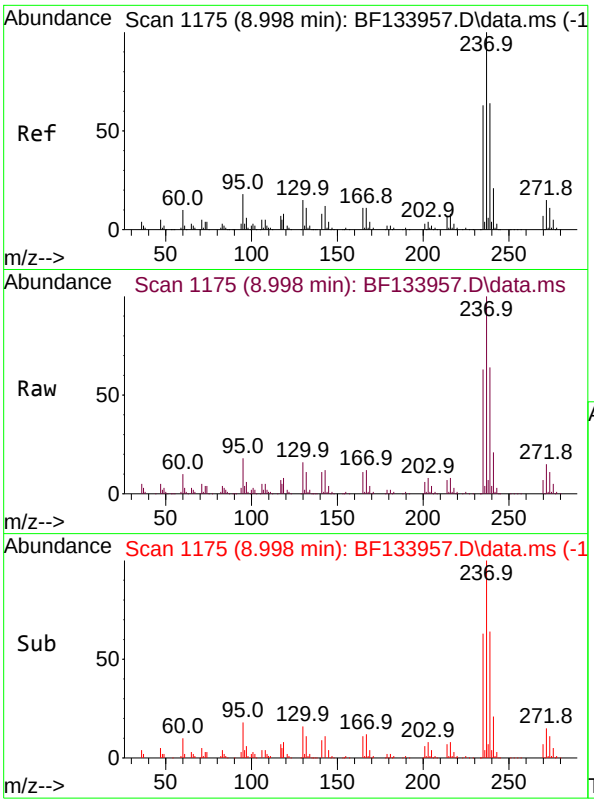


#40
1,2,4,5-Tetrachlorobenzene
Concen: 39.469 ng
RT: 9.010 min Scan# 1177
Delta R.T. 0.000 min
Lab File: BF133957.D
Acq: 26 Jun 2023 17:37

Tgt Ion:216 Resp: 276349

Ion	Ratio	Lower	Upper
216	100		
214	80.1	64.1	96.1
179	21.6	17.3	25.9
108	20.2	16.2	24.2





#41
Hexachlorocyclopentadiene
Concen: 41.907 ng
RT: 8.998 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF133957.D
Acq: 26 Jun 2023 17:37

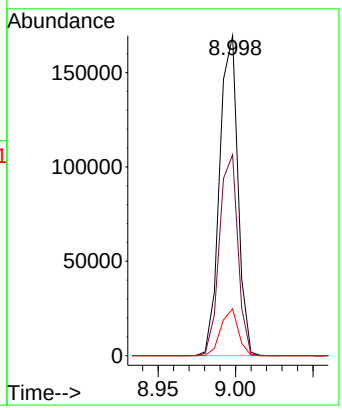
Tgt Ion:237 Resp: 13920

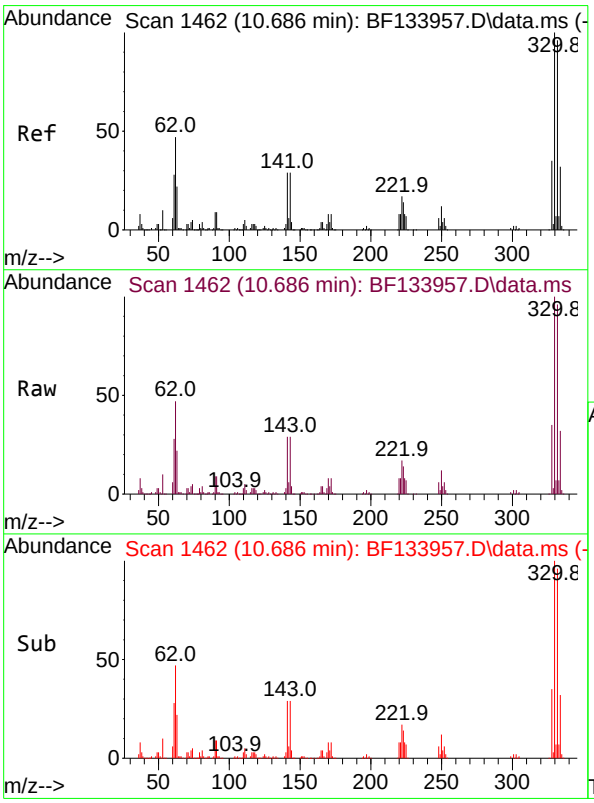
Ion	Ratio	Lower	Upper
237	100		
235	62.8	42.8	82.8
272	14.6	0.0	34.6

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

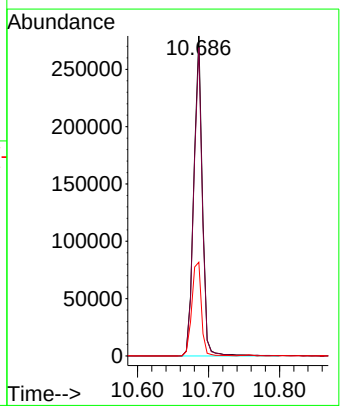


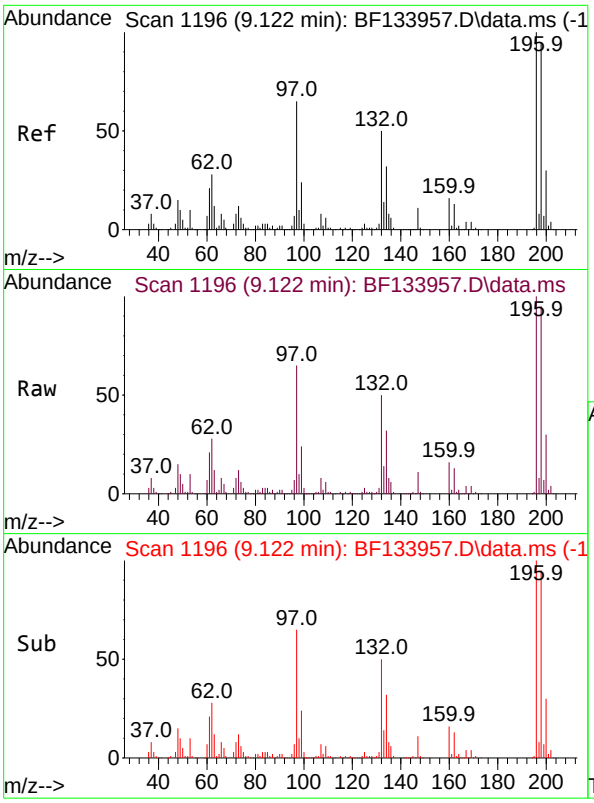


#42
2,4,6-Tribromophenol
Concen: 79.146 ng
RT: 10.686 min Scan# 1462
Delta R.T. 0.000 min
Lab File: BF133957.D
Acq: 26 Jun 2023 17:37

Tgt Ion:330 Resp: 234521

Ion	Ratio	Lower	Upper
330	100		
332	96.3	77.0	115.6
141	32.9	26.3	39.5

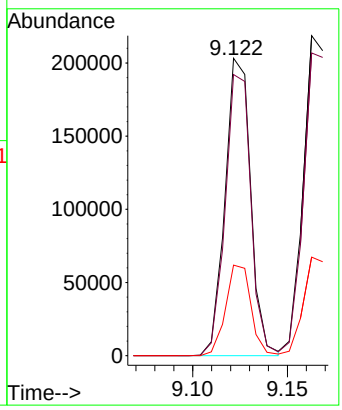




#43
2,4,6-Trichlorophenol
Concen: 40.098 ng
RT: 9.122 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF133957.D
Acq: 26 Jun 2023 17:37

Tgt Ion:196 Resp: 19112

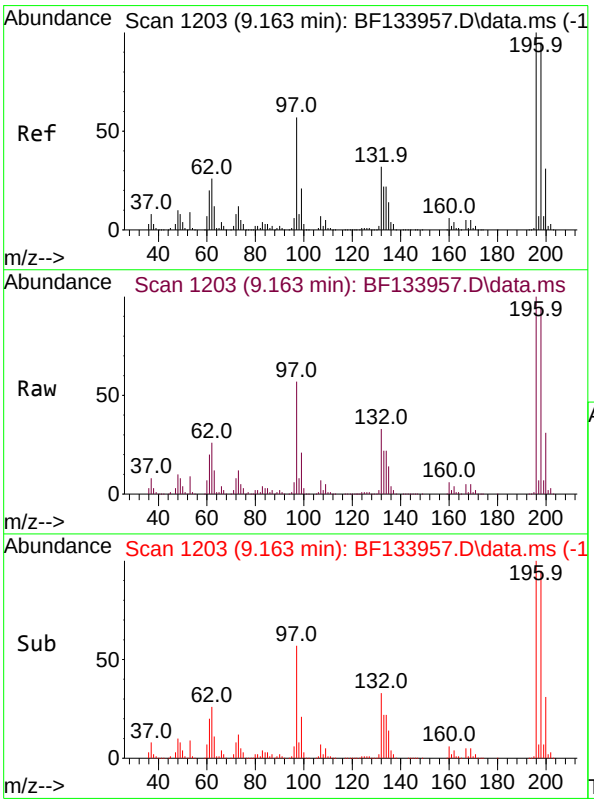
Ion	Ratio	Lower	Upper
196	100		
198	94.5	75.6	113.4
200	30.5	24.4	36.6



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

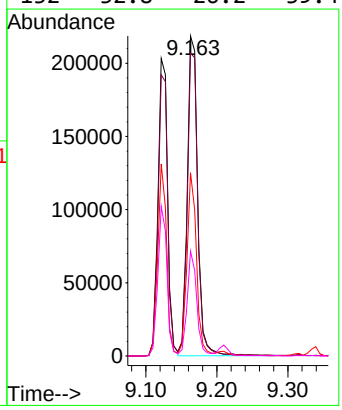
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

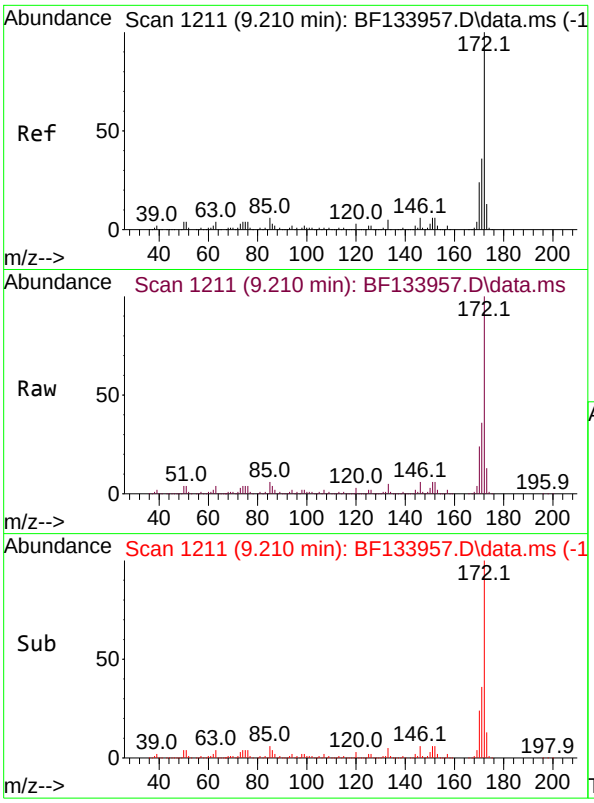


#44
2,4,5-Trichlorophenol
Concen: 39.881 ng
RT: 9.163 min Scan# 1203
Delta R.T. 0.000 min
Lab File: BF133957.D
Acq: 26 Jun 2023 17:37

Tgt Ion:196 Resp: 223598

Ion	Ratio	Lower	Upper
196	100		
198	94.6	75.7	113.5
97	57.2	45.8	68.6
132	32.8	26.2	39.4

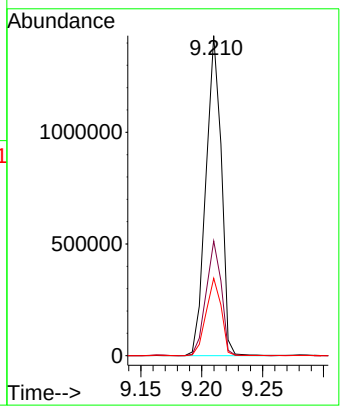




#45
2-Fluorobiphenyl
Concen: 77.247 ng
RT: 9.210 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF133957.D
Acq: 26 Jun 2023 17:37

Tgt Ion:172 Resp: 125566

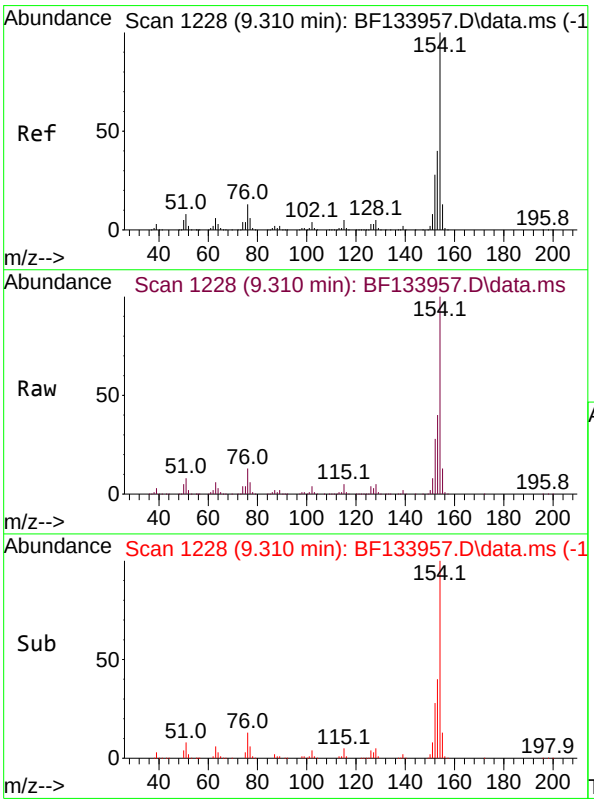
Ion	Ratio	Lower	Upper
172	100		
171	35.8	28.6	43.0
170	24.2	19.4	29.0



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

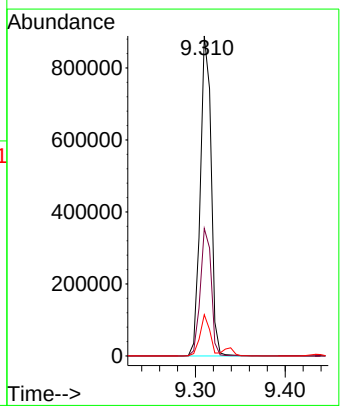
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

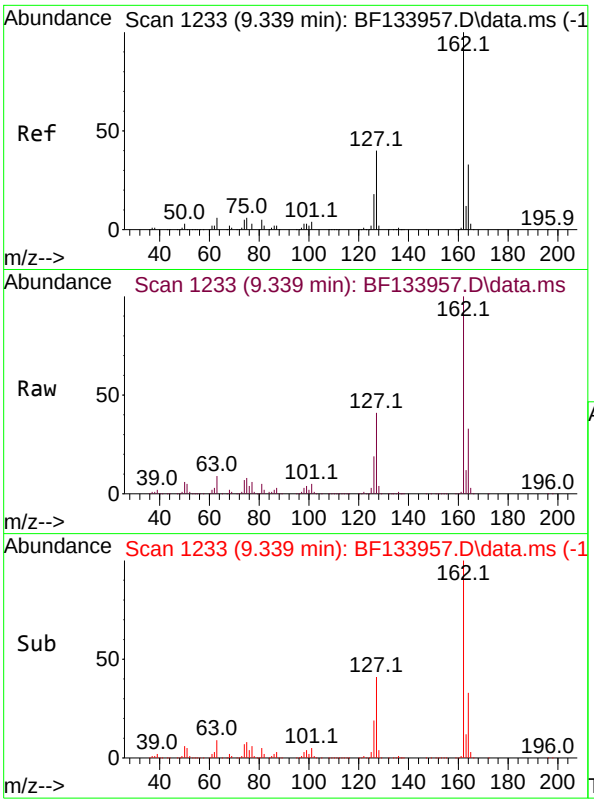


#46
1,1'-Biphenyl
Concen: 39.300 ng
RT: 9.310 min Scan# 1228
Delta R.T. 0.000 min
Lab File: BF133957.D
Acq: 26 Jun 2023 17:37

Tgt Ion:154 Resp: 745049

Ion	Ratio	Lower	Upper
154	100		
153	39.8	19.8	59.8
76	12.9	0.0	32.9

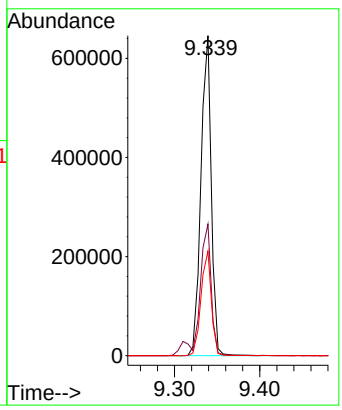




#47
2-Chloronaphthalene
Concen: 39.329 ng
RT: 9.339 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF133957.D
Acq: 26 Jun 2023 17:37

Tgt Ion:162 Resp: 54552

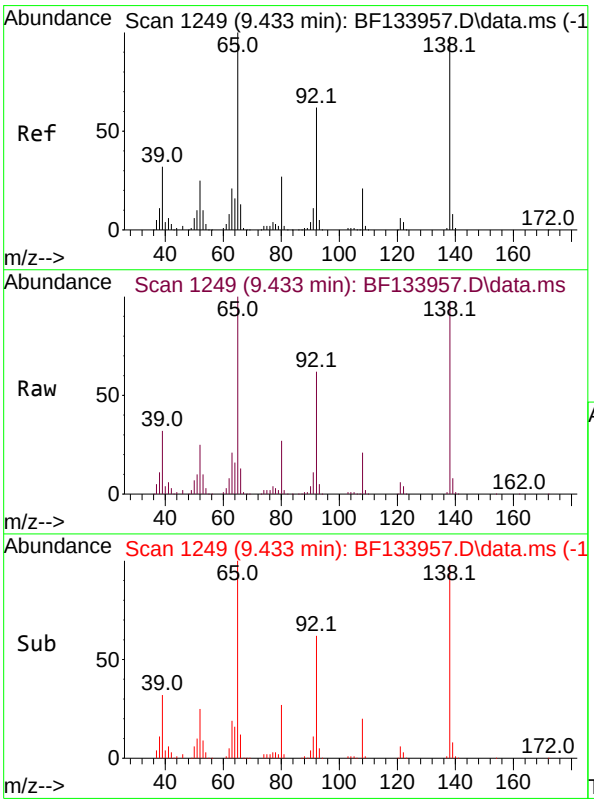
Ion	Ratio	Lower	Upper
162	100		
127	41.1	32.9	49.3
164	32.6	26.1	39.1



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

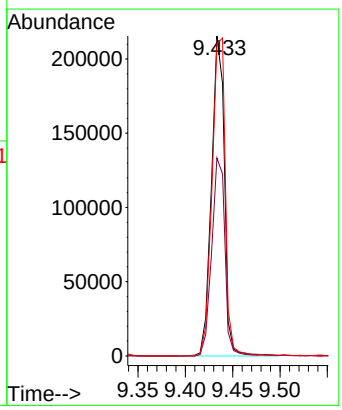
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

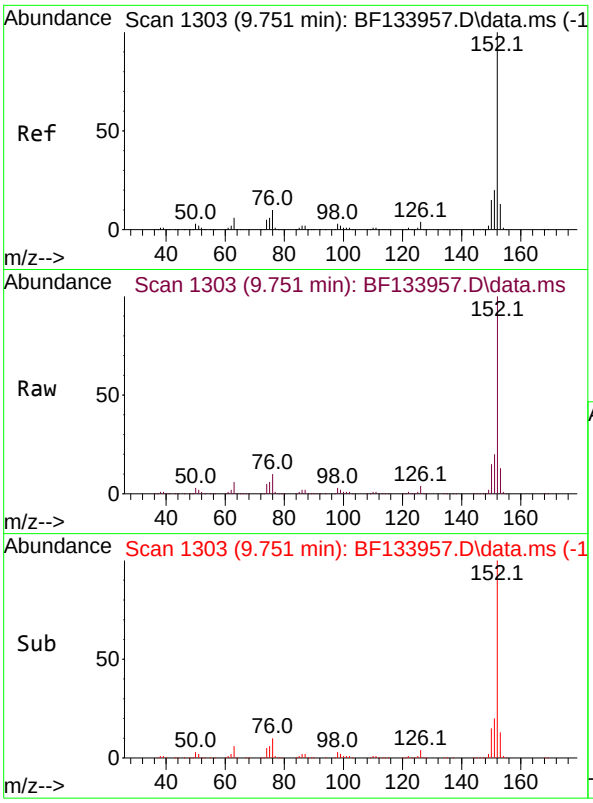


#48
2-Nitroaniline
Concen: 40.327 ng
RT: 9.433 min Scan# 1249
Delta R.T. 0.000 min
Lab File: BF133957.D
Acq: 26 Jun 2023 17:37

Tgt Ion: 65 Resp: 203857

Ion	Ratio	Lower	Upper
65	100		
92	61.9	49.5	74.3
138	97.5	78.0	117.0

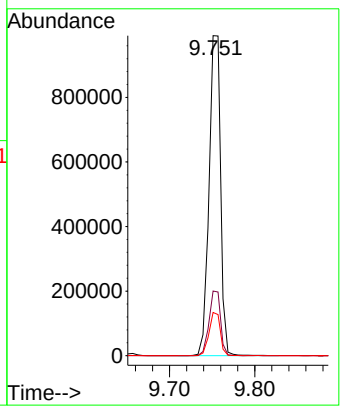




#49
Acenaphthylene
Concen: 39.469 ng
RT: 9.751 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF133957.D
Acq: 26 Jun 2023 17:37

Tgt Ion:152 Resp: 93519

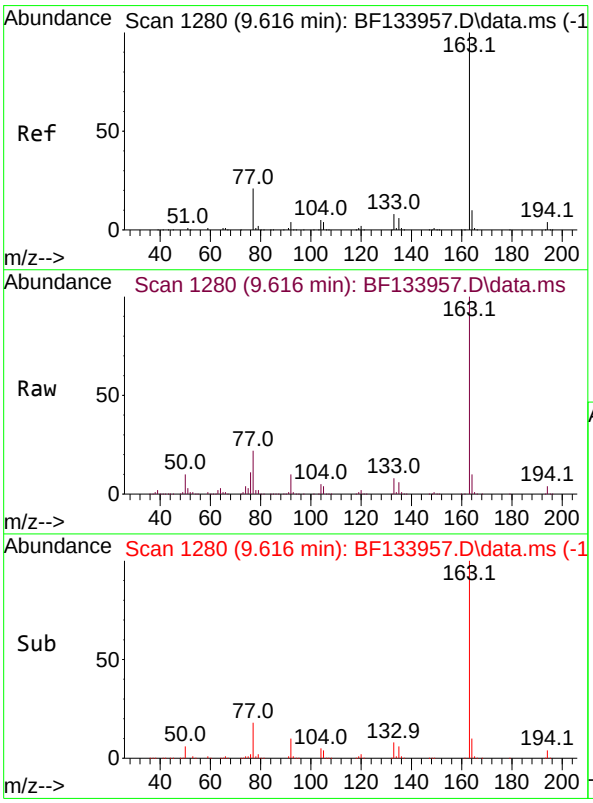
Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.2	24.2
153	13.5	10.8	16.2



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

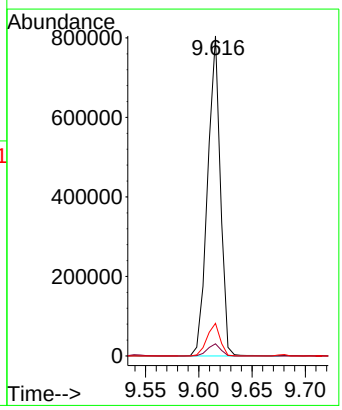
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

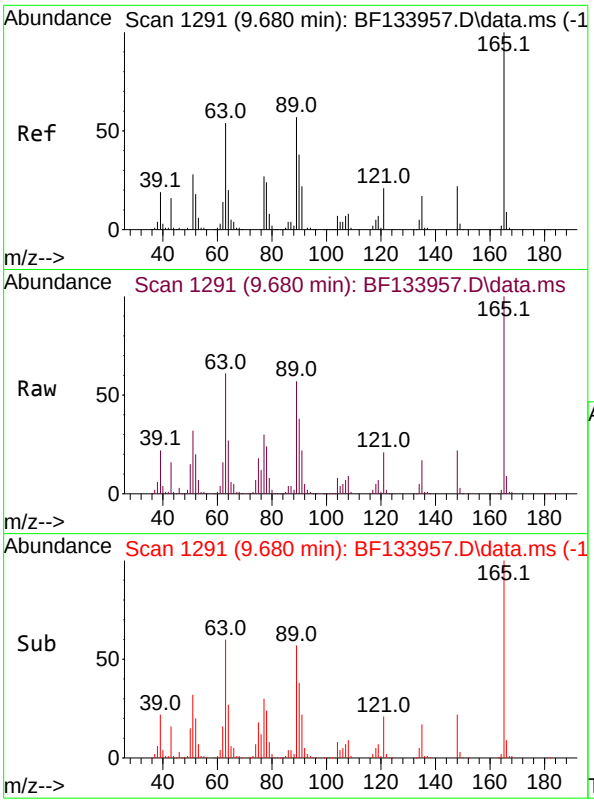


#50
Dimethylphthalate
Concen: 39.272 ng
RT: 9.616 min Scan# 1280
Delta R.T. -0.000 min
Lab File: BF133957.D
Acq: 26 Jun 2023 17:37

Tgt Ion:163 Resp: 673727

Ion	Ratio	Lower	Upper
163	100		
194	3.8	3.0	4.6
164	10.2	8.2	12.2

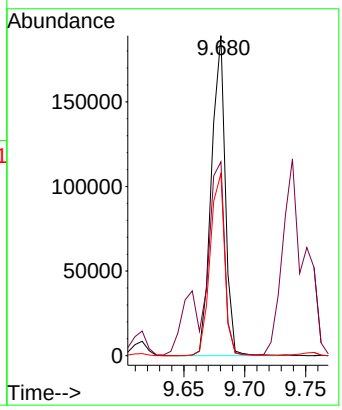




#51
2,6-Dinitrotoluene
Concen: 40.692 ng
RT: 9.680 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF133957.D
Acq: 26 Jun 2023 17:37

Tgt Ion:165 Resp: 15035

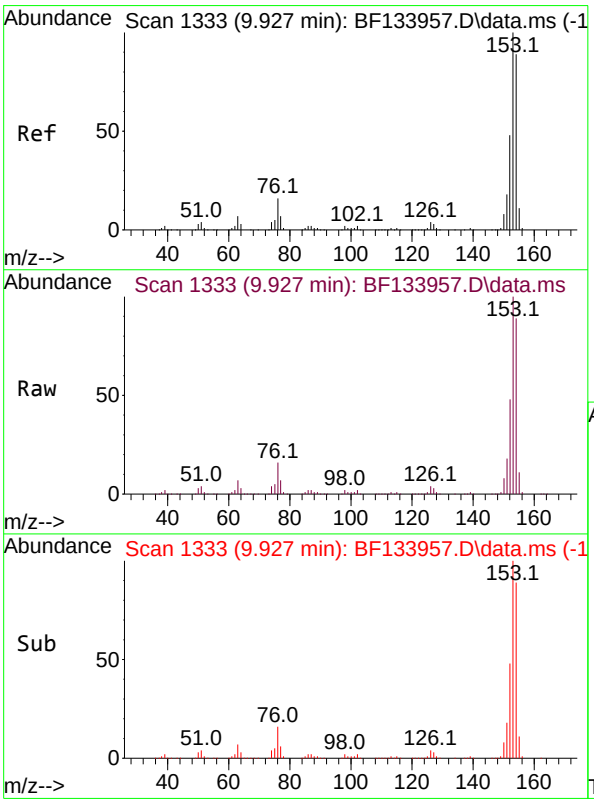
Ion	Ratio	Lower	Upper
165	100		
63	60.6	48.5	72.7
89	56.9	45.5	68.3



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

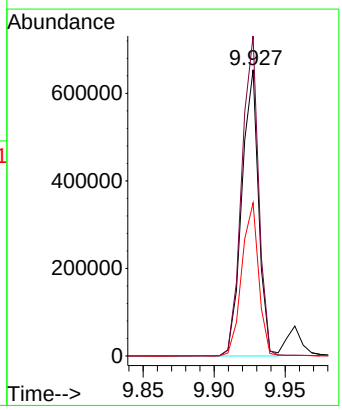
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

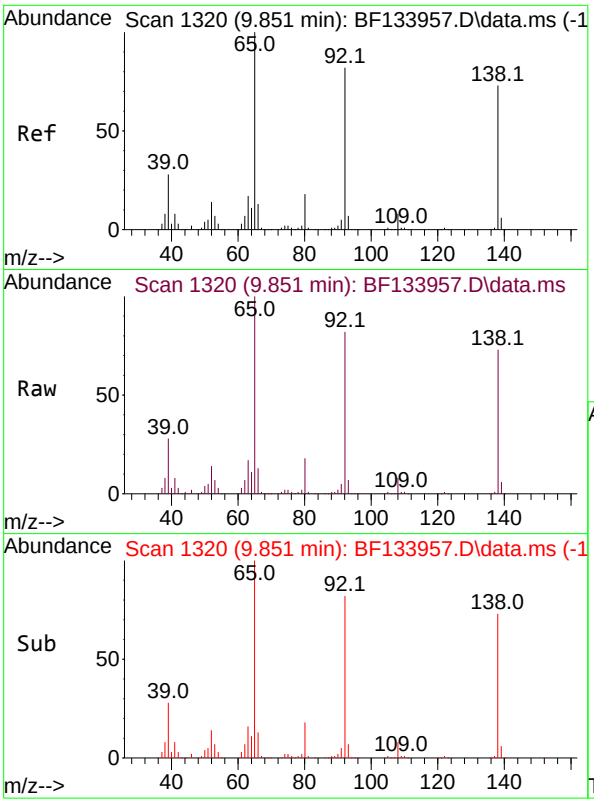


#52
Acenaphthene
Concen: 39.282 ng
RT: 9.927 min Scan# 1333
Delta R.T. 0.000 min
Lab File: BF133957.D
Acq: 26 Jun 2023 17:37

Tgt Ion:154 Resp: 540093

Ion	Ratio	Lower	Upper
154	100		
153	111.8	89.4	134.2
152	53.5	42.8	64.2





#53
3-Nitroaniline
Concen: 39.950 ng
RT: 9.851 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF133957.D
Acq: 26 Jun 2023 17:37

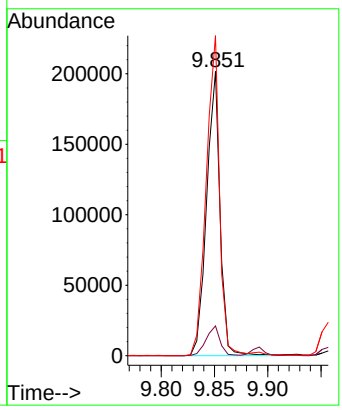
Tgt Ion:138 Resp: 17709

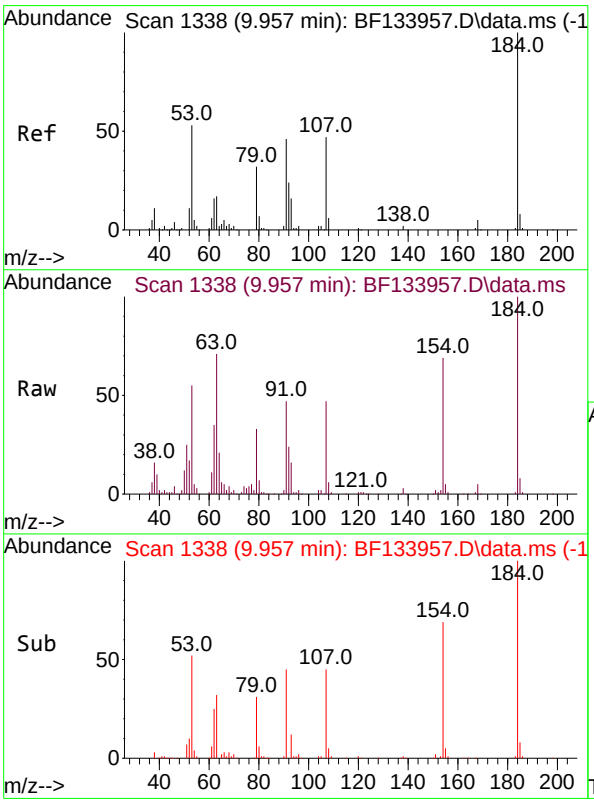
Ion	Ratio	Lower	Upper
138	100		
108	10.5	8.4	12.6
92	112.6	90.1	135.1

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

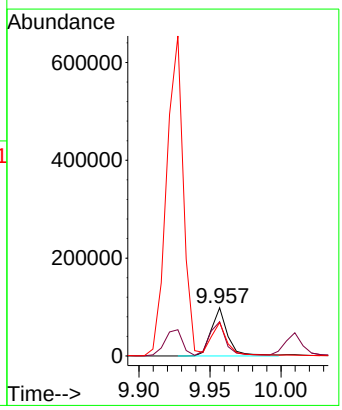


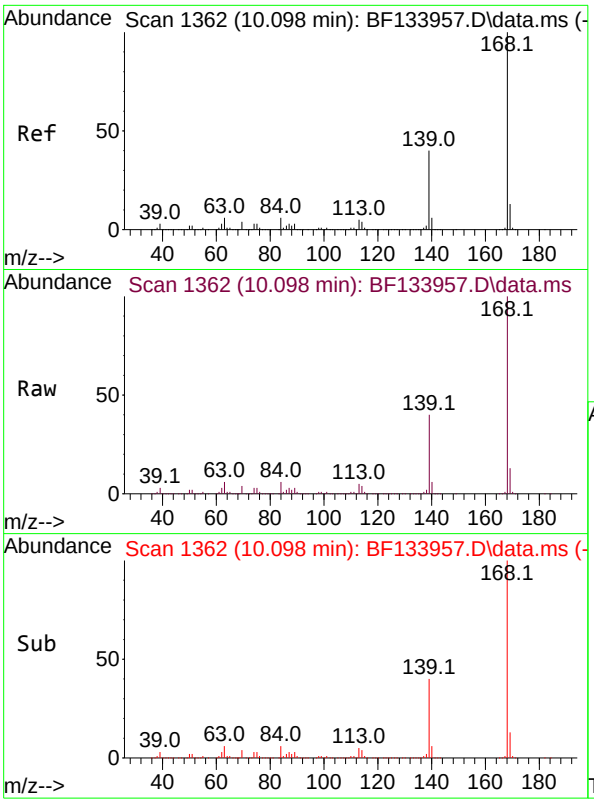


#54
2,4-Dinitrophenol
Concen: 39.314 ng
RT: 9.957 min Scan# 1338
Delta R.T. -0.000 min
Lab File: BF133957.D
Acq: 26 Jun 2023 17:37

Tgt Ion:184 Resp: 79486

Ion	Ratio	Lower	Upper
184	100		
63	71.1	56.9	85.3
154	69.2	55.4	83.0

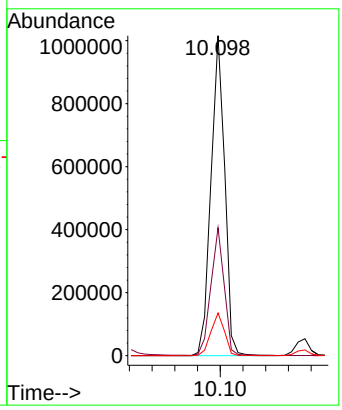




#55
Dibenzofuran
Concen: 39.650 ng
RT: 10.098 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF133957.D
Acq: 26 Jun 2023 17:37

Tgt Ion:168 Resp: 85198

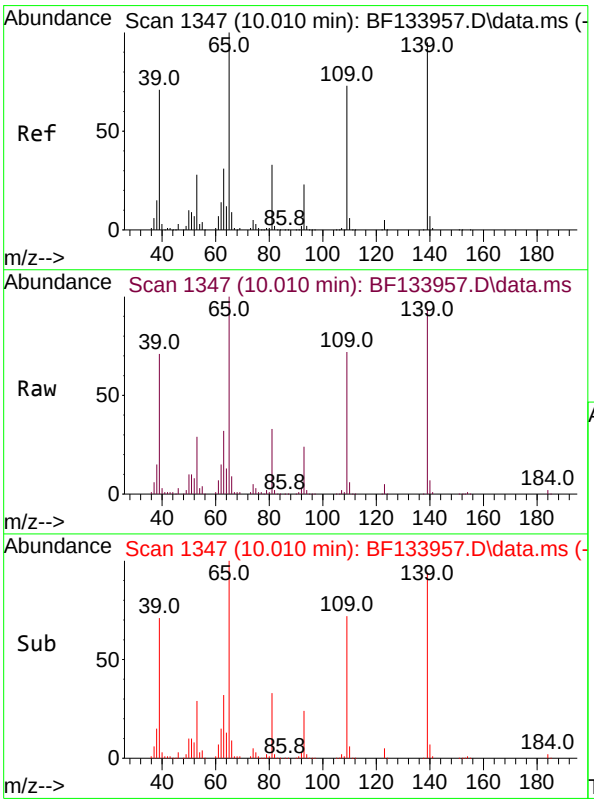
Ion	Ratio	Lower	Upper
168	100		
139	40.0	32.0	48.0
169	13.3	10.6	16.0



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

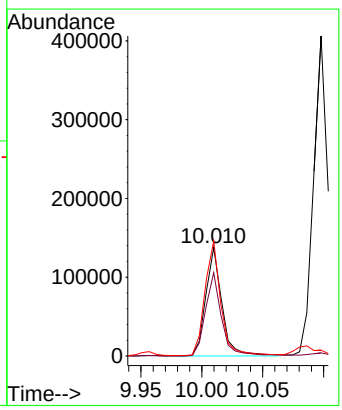
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

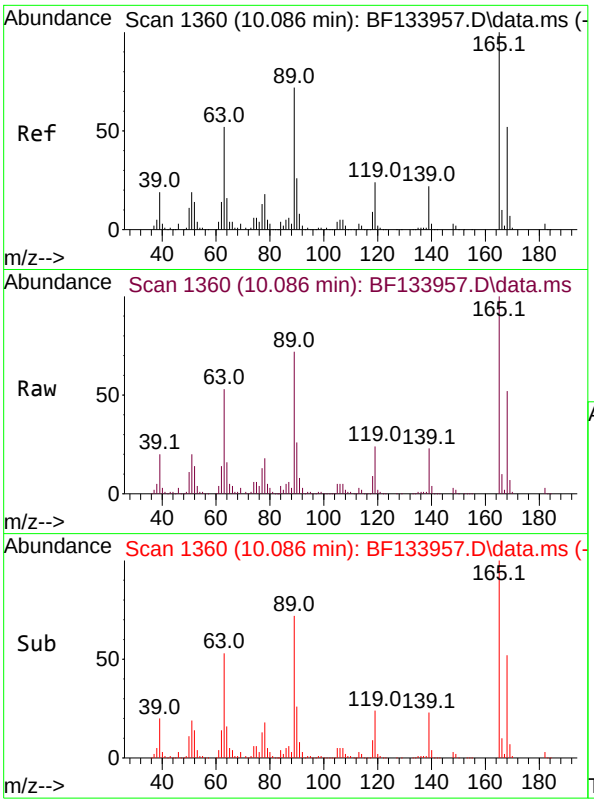


#56
4-Nitrophenol
Concen: 40.995 ng
RT: 10.010 min Scan# 1347
Delta R.T. 0.000 min
Lab File: BF133957.D
Acq: 26 Jun 2023 17:37

Tgt Ion:139 Resp: 127111

Ion	Ratio	Lower	Upper
139	100		
109	76.8	56.8	96.8
65	106.1	86.1	126.1

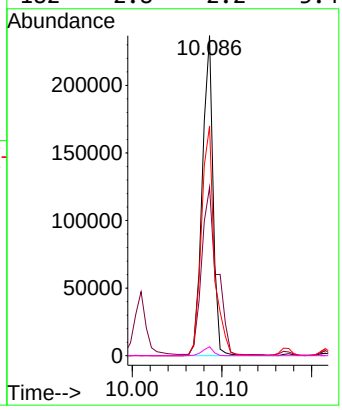




#57
2,4-Dinitrotoluene
Concen: 40.423 ng
RT: 10.086 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF133957.D
Acq: 26 Jun 2023 17:37

Tgt Ion:165 Resp: 19725

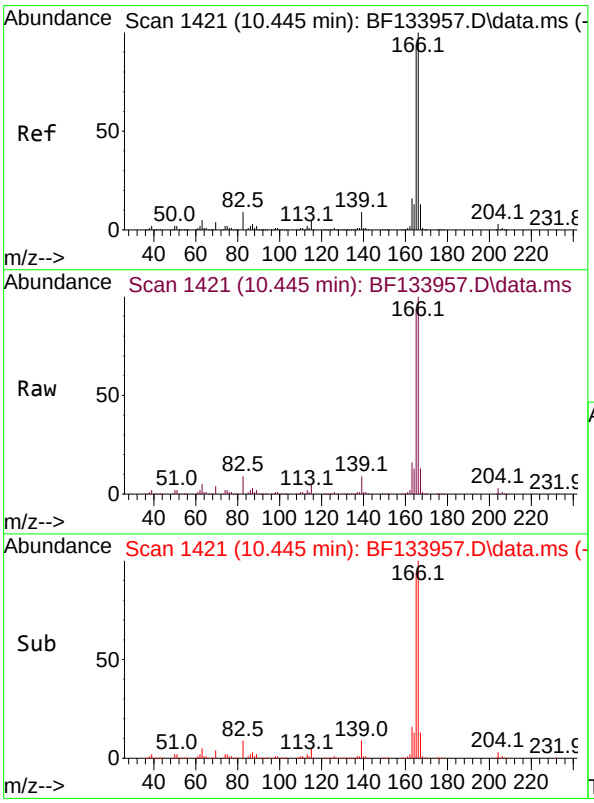
Ion	Ratio	Lower	Upper
165	100		
63	52.7	42.2	63.2
89	71.8	57.4	86.2
182	2.8	2.2	3.4



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

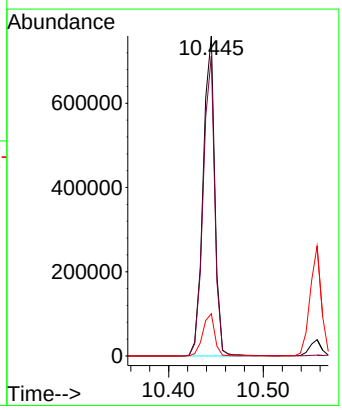
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

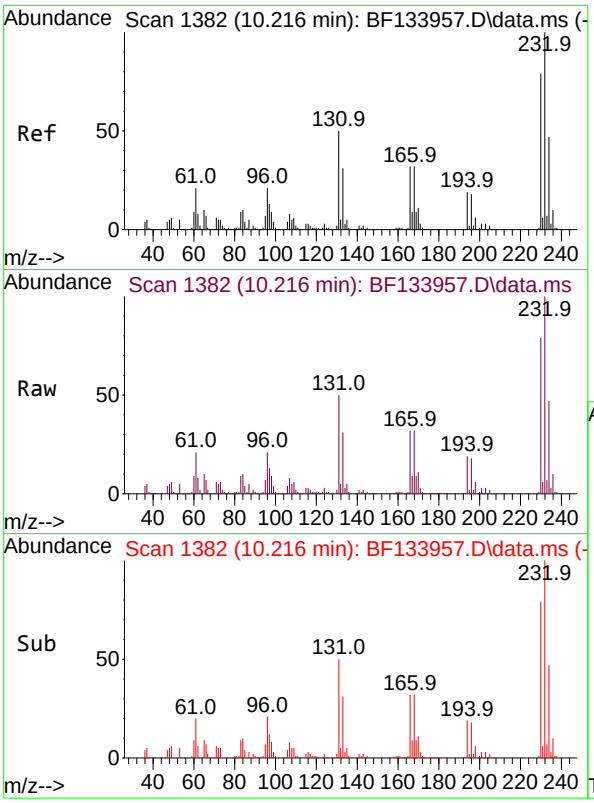


#58
Fluorene
Concen: 38.816 ng
RT: 10.445 min Scan# 1421
Delta R.T. 0.000 min
Lab File: BF133957.D
Acq: 26 Jun 2023 17:37

Tgt Ion:166 Resp: 648880

Ion	Ratio	Lower	Upper
166	100		
165	93.7	75.0	112.4
167	13.2	10.6	15.8

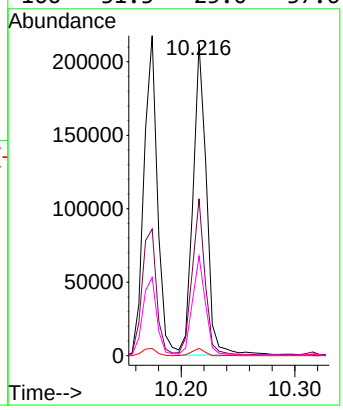




#59
2,3,4,6-Tetrachlorophenol
Concen: 39.381 ng
RT: 10.216 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF133957.D
Acq: 26 Jun 2023 17:37

Tgt Ion:232 Resp: 17416

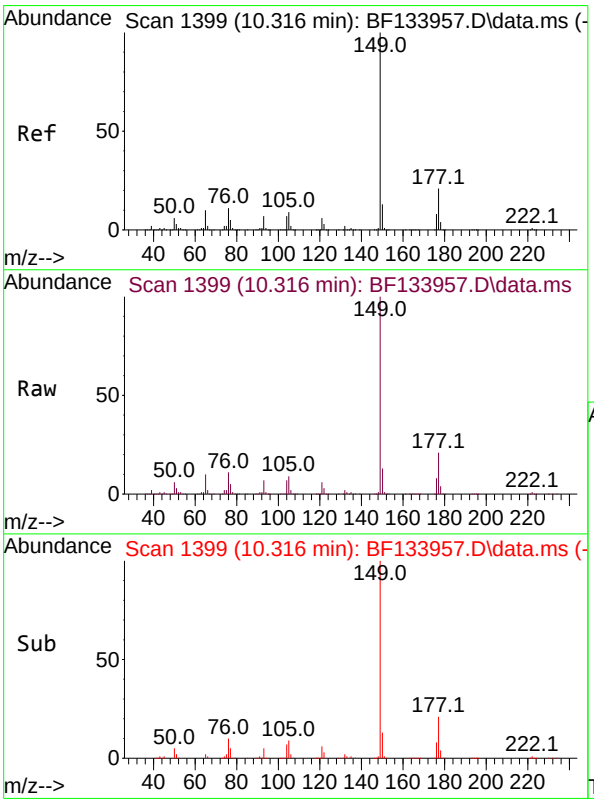
Ion	Ratio	Lower	Upper
232	100		
131	49.1	39.3	58.9
130	2.2	1.8	2.6
166	31.3	25.0	37.6



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

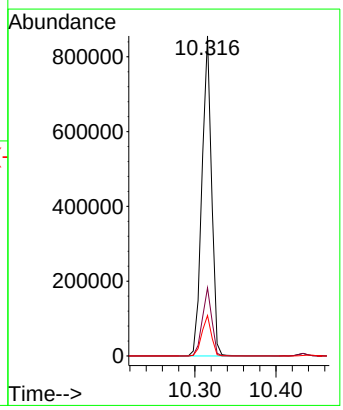
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

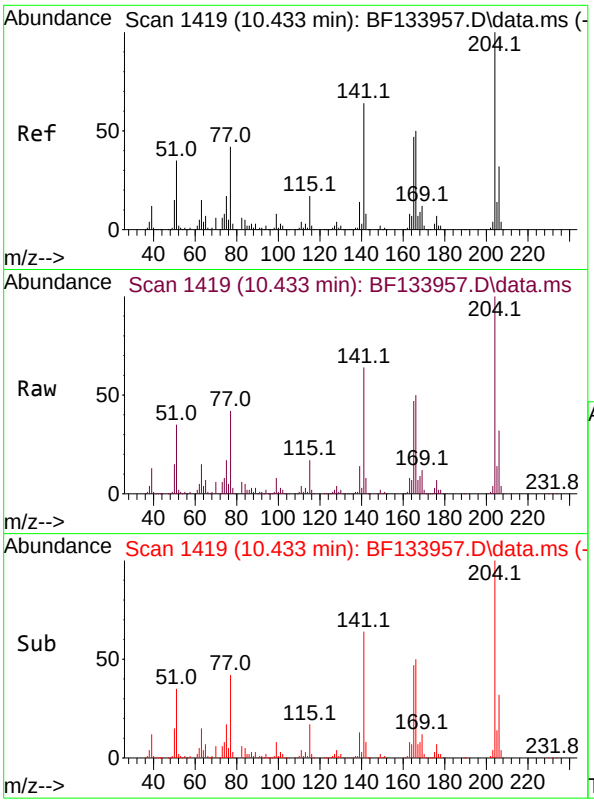


#60
Diethylphthalate
Concen: 39.365 ng
RT: 10.316 min Scan# 1399
Delta R.T. 0.000 min
Lab File: BF133957.D
Acq: 26 Jun 2023 17:37

Tgt Ion:149 Resp: 703590

Ion	Ratio	Lower	Upper
149	100		
177	21.3	17.0	25.6
150	12.7	10.2	15.2

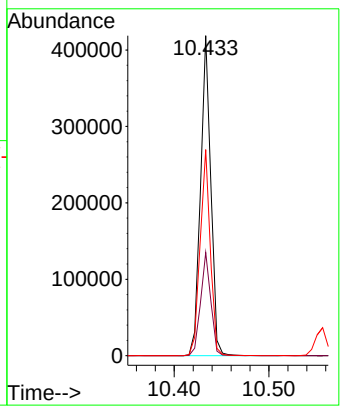




#61
4-Chlorophenyl-phenylether
Concen: 39.105 ng
RT: 10.433 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF133957.D
Acq: 26 Jun 2023 17:37

Tgt Ion:204 Resp: 31504

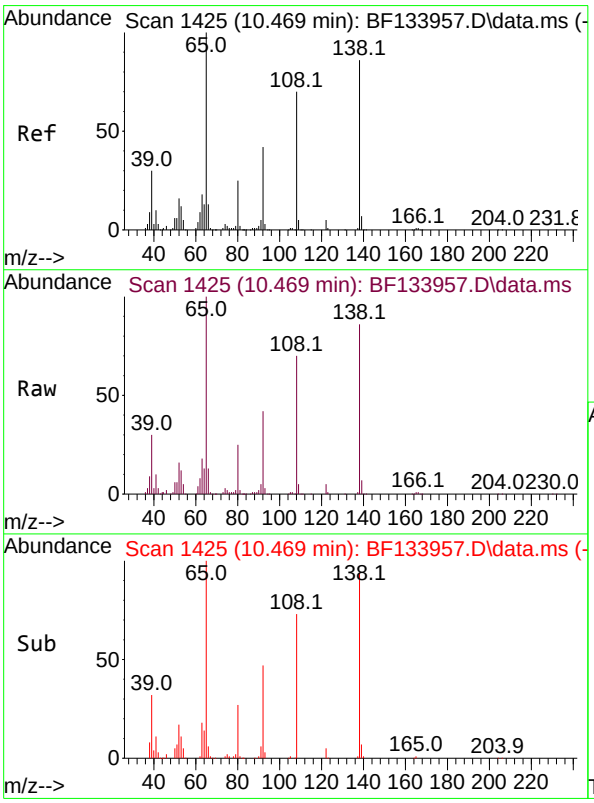
Ion	Ratio	Lower	Upper
204	100		
206	32.2	25.8	38.6
141	64.4	51.5	77.3



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

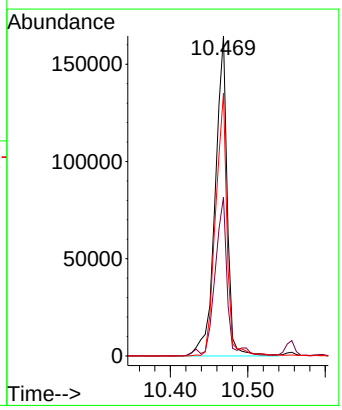
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

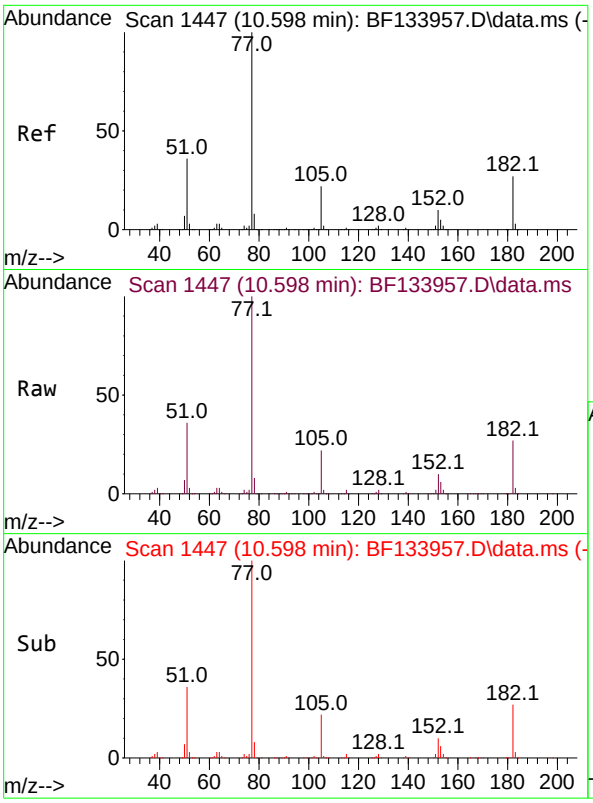


#62
4-Nitroaniline
Concen: 39.885 ng
RT: 10.469 min Scan# 1425
Delta R.T. 0.000 min
Lab File: BF133957.D
Acq: 26 Jun 2023 17:37

Tgt Ion:138 Resp: 178179

Ion	Ratio	Lower	Upper
138	100		
92	49.7	29.7	69.7
108	82.1	62.1	102.1

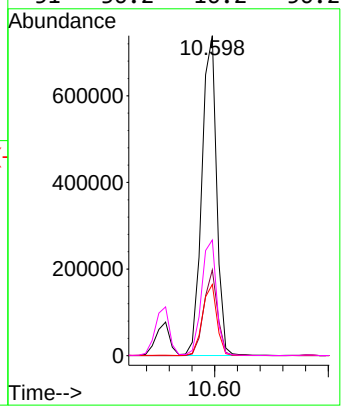




#63
Azobenzene
Concen: 39.366 ng
RT: 10.598 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF133957.D
Acq: 26 Jun 2023 17:37

Tgt Ion: 77 Resp: 66555

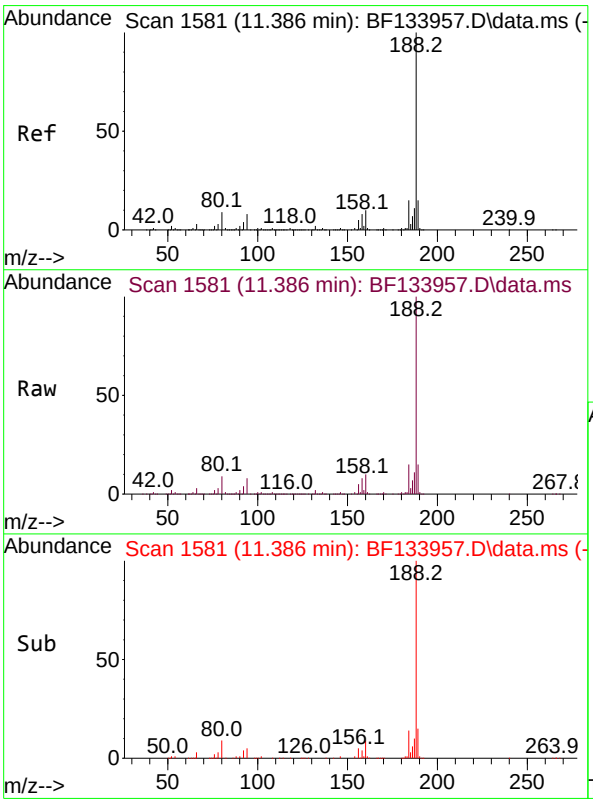
Ion	Ratio	Lower	Upper
77	100		
182	26.8	6.8	46.8
105	22.3	2.3	42.3
51	36.2	16.2	56.2



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

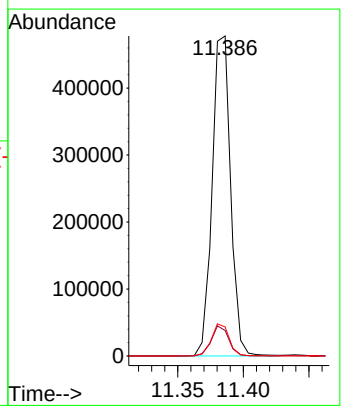
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

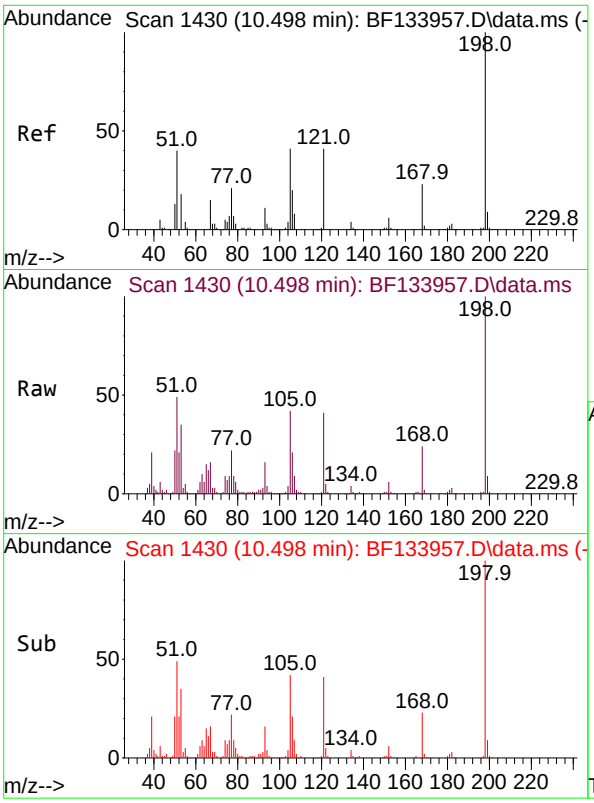


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.386 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BF133957.D
Acq: 26 Jun 2023 17:37

Tgt Ion:188 Resp: 467665

Ion	Ratio	Lower	Upper
188	100		
94	8.0	6.4	9.6
80	9.1	7.3	10.9

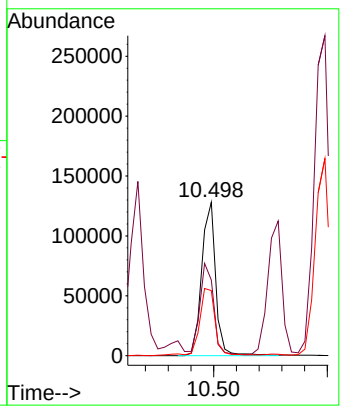




#65
4,6-Dinitro-2-methylphenol
Concen: 42.960 ng
RT: 10.498 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF133957.D
Acq: 26 Jun 2023 17:37

Tgt Ion:198 Resp: 10953

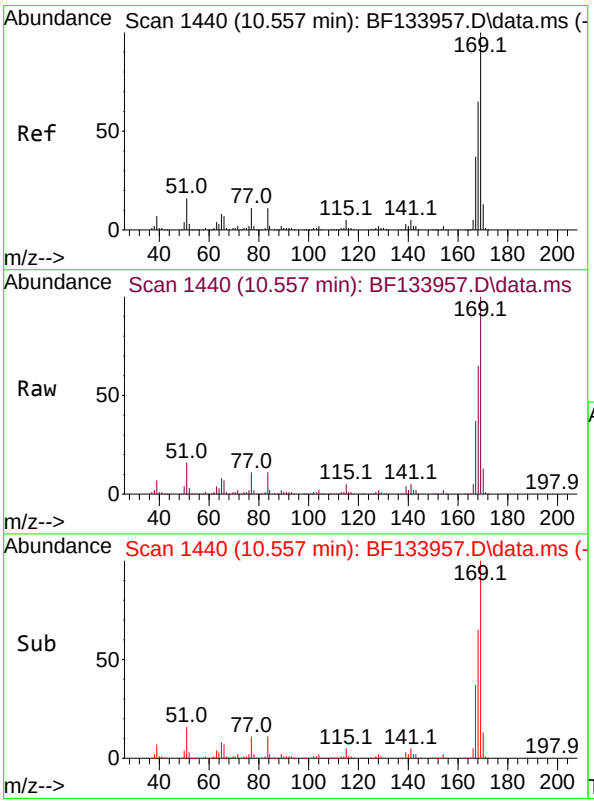
Ion	Ratio	Lower	Upper
198	100		
51	49.3	29.3	69.3
105	42.4	22.4	62.4



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

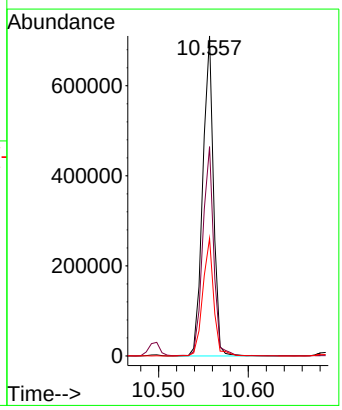
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

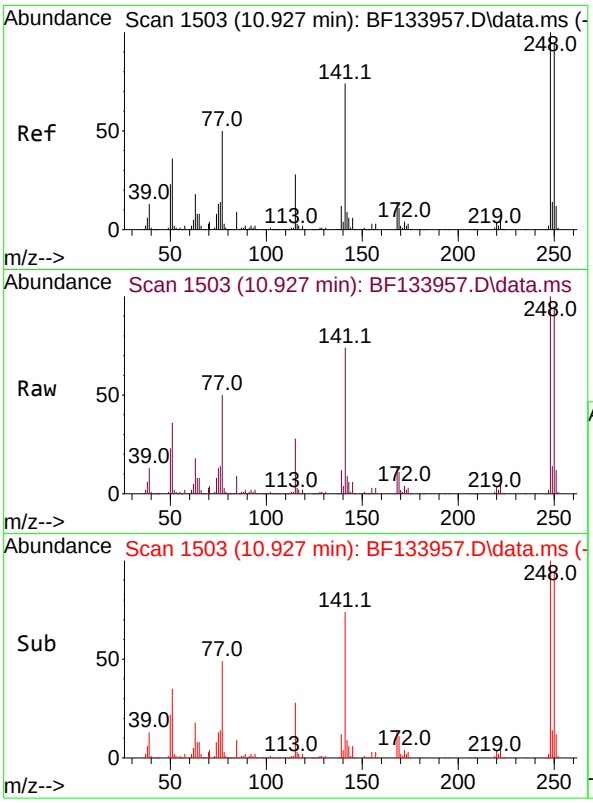


#66
n-Nitrosodiphenylamine
Concen: 39.314 ng
RT: 10.557 min Scan# 1440
Delta R.T. 0.000 min
Lab File: BF133957.D
Acq: 26 Jun 2023 17:37

Tgt Ion:169 Resp: 587428

Ion	Ratio	Lower	Upper
169	100		
168	65.4	52.3	78.5
167	36.7	29.4	44.0

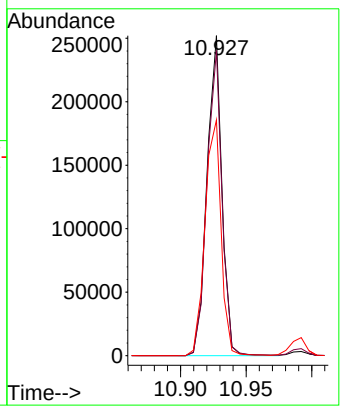




#67
4-Bromophenyl-phenylether
Concen: 40.122 ng
RT: 10.927 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF133957.D
Acq: 26 Jun 2023 17:37

Tgt Ion:248 Resp: 19943

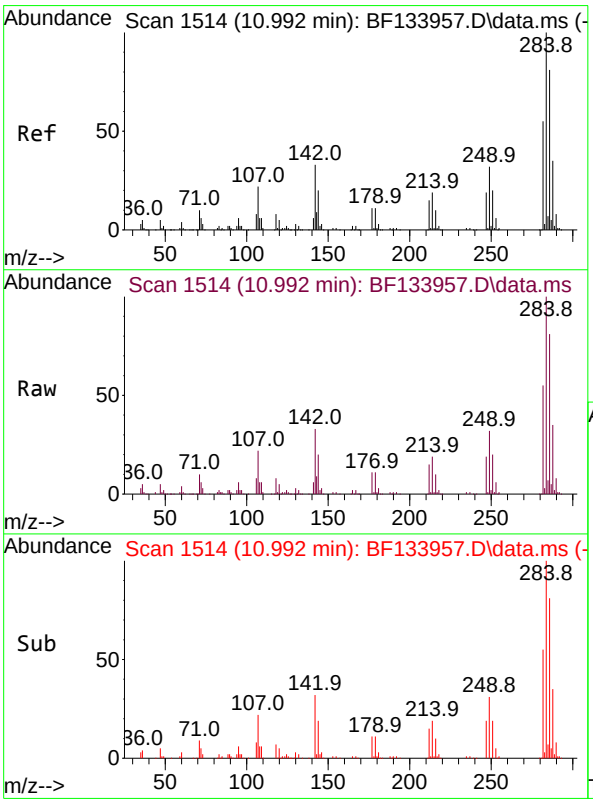
Ion	Ratio	Lower	Upper
248	100		
250	95.3	76.2	114.4
141	73.7	59.0	88.4



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

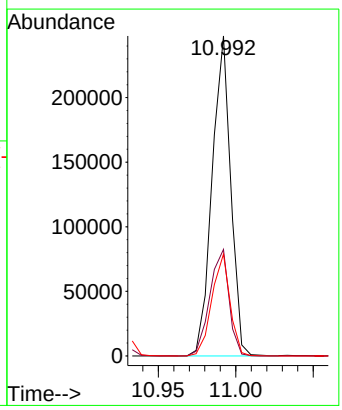
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

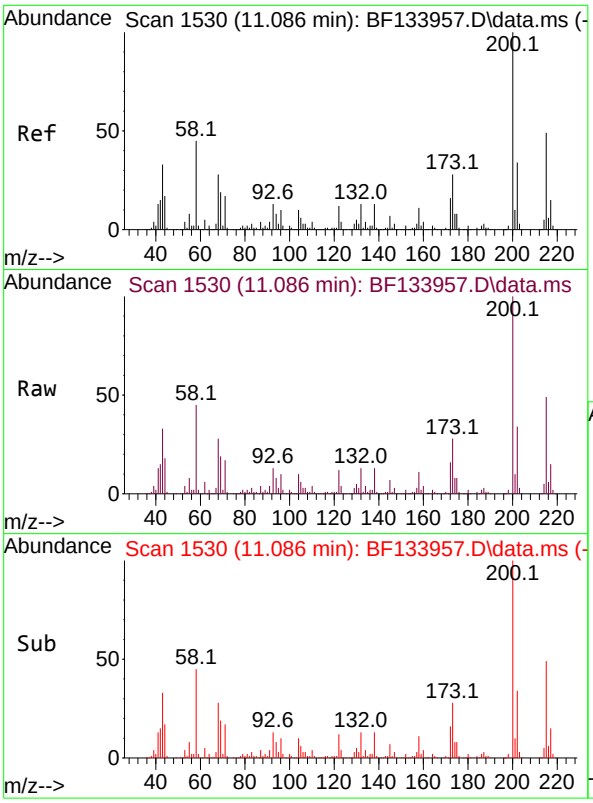


#68
Hexachlorobenzene
Concen: 39.204 ng
RT: 10.992 min Scan# 1514
Delta R.T. 0.000 min
Lab File: BF133957.D
Acq: 26 Jun 2023 17:37

Tgt Ion:284 Resp: 206910

Ion	Ratio	Lower	Upper
284	100		
142	33.3	26.6	40.0
249	31.9	25.5	38.3

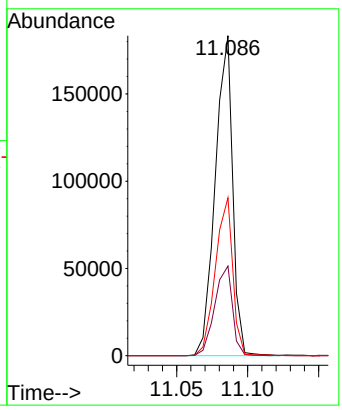




#69
Atrazine
Concen: 37.774 ng
RT: 11.086 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF133957.D
Acq: 26 Jun 2023 17:37

Tgt Ion:200 Resp: 15612

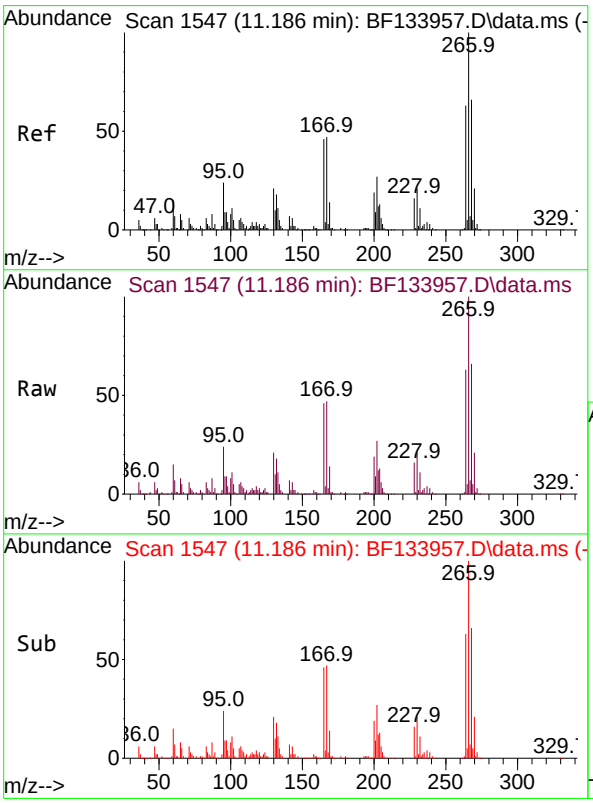
Ion	Ratio	Lower	Upper
200	100		
173	28.0	8.0	48.0
215	49.3	29.3	69.3



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

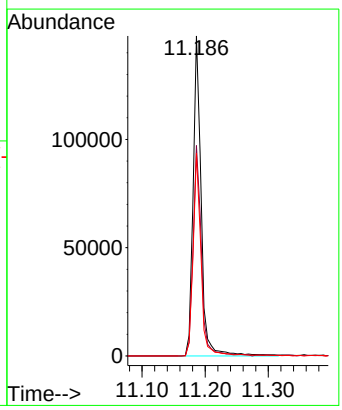
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

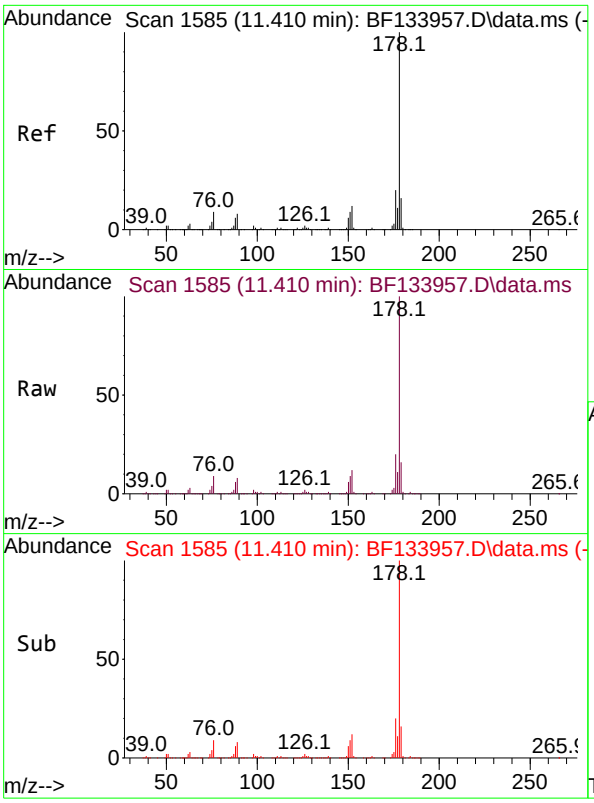


#70
Pentachlorophenol
Concen: 41.693 ng
RT: 11.186 min Scan# 1547
Delta R.T. 0.000 min
Lab File: BF133957.D
Acq: 26 Jun 2023 17:37

Tgt Ion:266 Resp: 131568

Ion	Ratio	Lower	Upper
266	100		
268	65.8	52.6	79.0
264	63.3	50.6	76.0

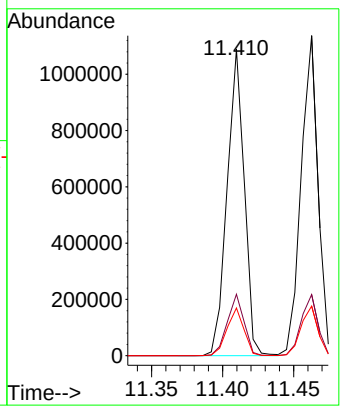




#71
Phenanthrene
Concen: 38.978 ng
RT: 11.410 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF133957.D
Acq: 26 Jun 2023 17:37

Tgt Ion:178 Resp: 91766

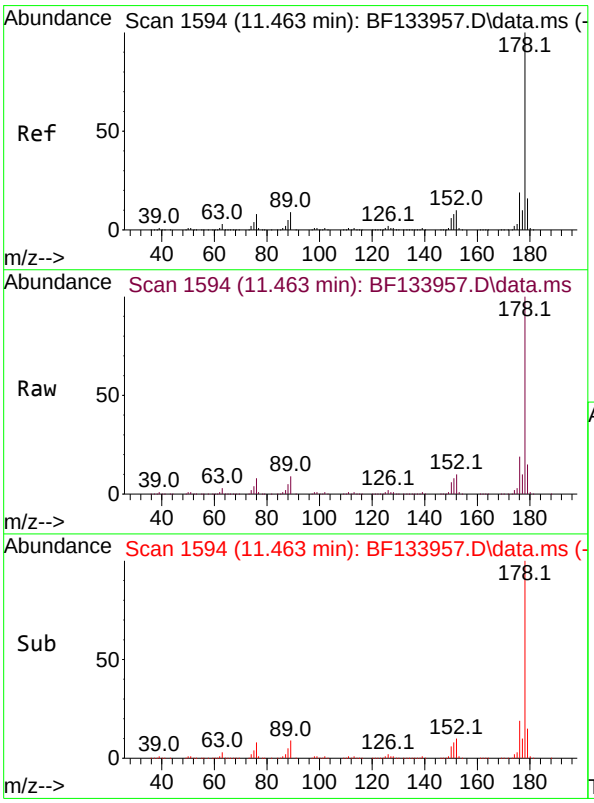
Ion	Ratio	Lower	Upper
178	100		
176	20.0	16.0	24.0
179	15.5	12.4	18.6



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

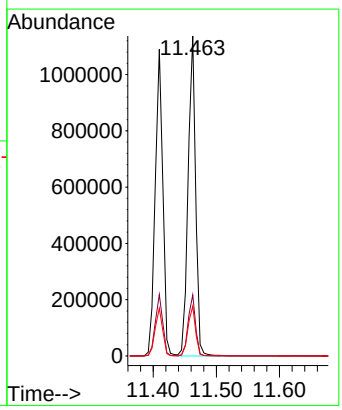
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

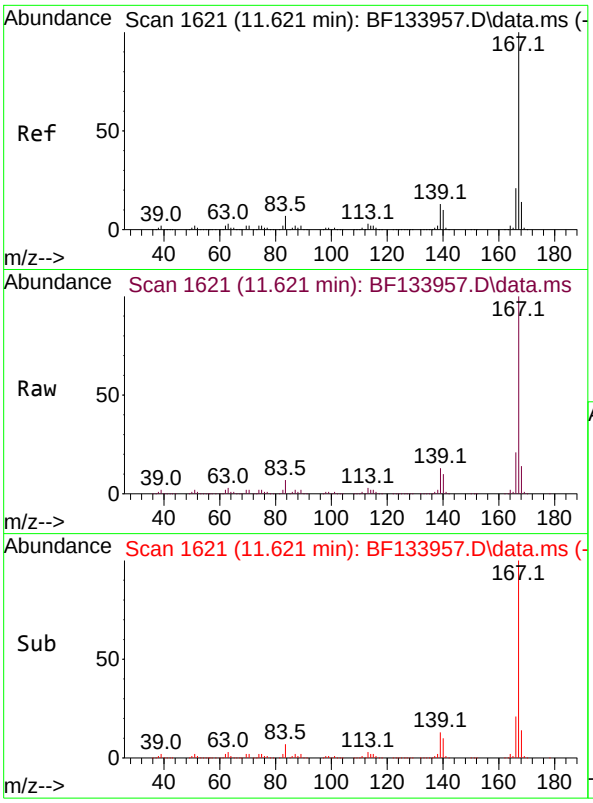


#72
Anthracene
Concen: 38.753 ng
RT: 11.463 min Scan# 1594
Delta R.T. 0.000 min
Lab File: BF133957.D
Acq: 26 Jun 2023 17:37

Tgt Ion:178 Resp: 948970

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.3	22.9
179	15.5	12.4	18.6

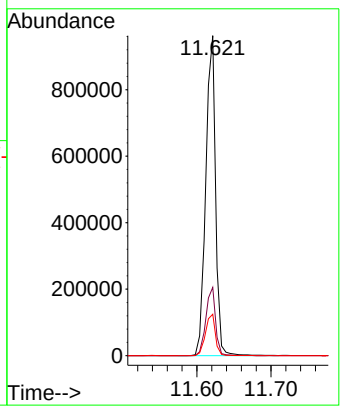




#73
Carbazole
Concen: 39.637 ng
RT: 11.621 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF133957.D
Acq: 26 Jun 2023 17:37

Tgt Ion:167 Resp: 88841

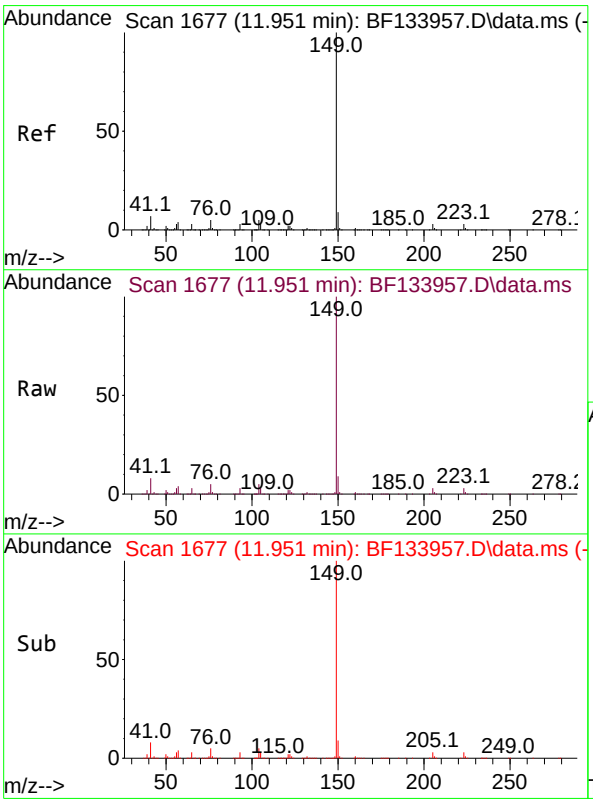
Ion	Ratio	Lower	Upper
167	100		
166	21.3	17.0	25.6
139	13.0	10.4	15.6



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

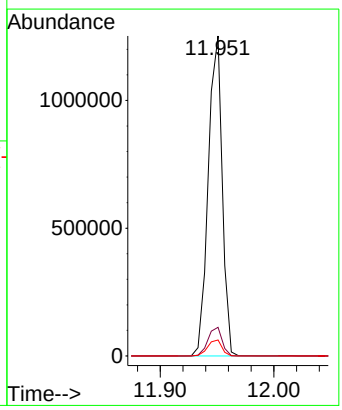
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

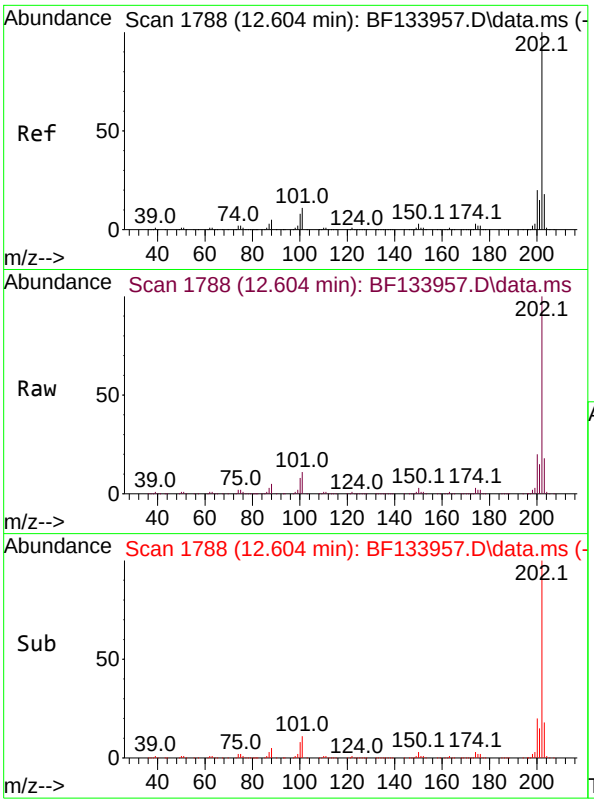


#74
Di-n-butylphthalate
Concen: 40.056 ng
RT: 11.951 min Scan# 1677
Delta R.T. 0.000 min
Lab File: BF133957.D
Acq: 26 Jun 2023 17:37

Tgt Ion:149 Resp: 1067648

Ion	Ratio	Lower	Upper
149	100		
150	8.9	7.1	10.7
104	5.0	4.0	6.0

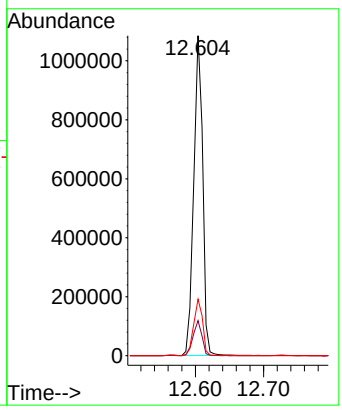




#75
Fluoranthene
Concen: 38.726 ng
RT: 12.604 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF133957.D
Acq: 26 Jun 2023 17:37

Tgt Ion:202 Resp: 98565

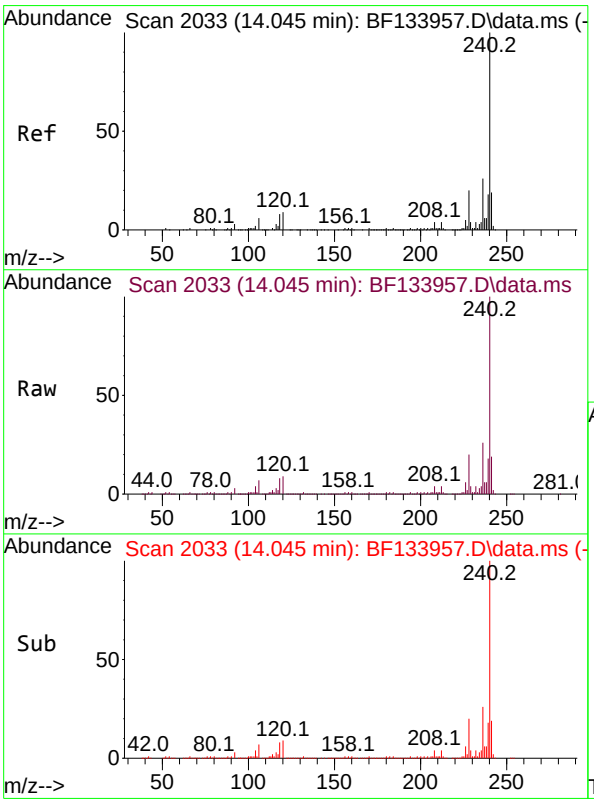
Ion	Ratio	Lower	Upper
202	100		
101	11.0	0.0	31.0
203	17.6	0.0	37.6



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

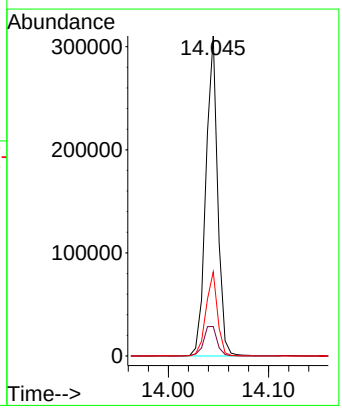
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

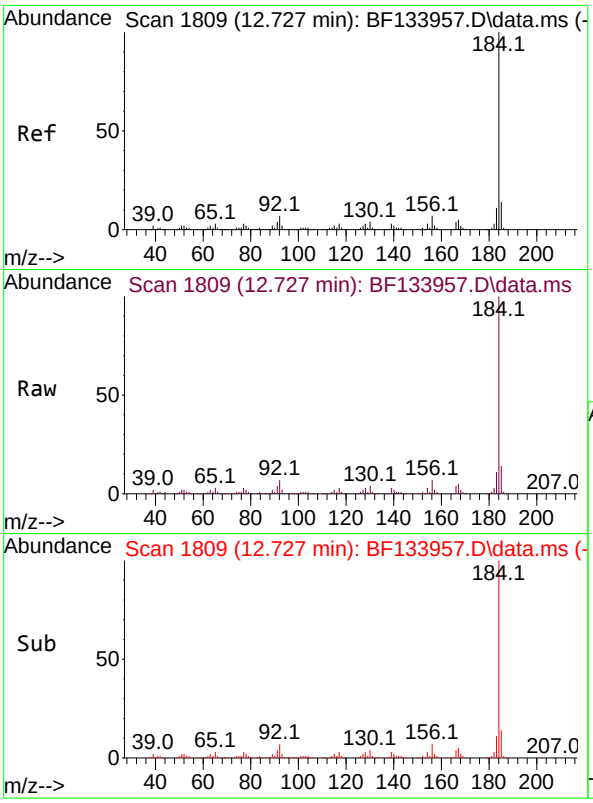


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.045 min Scan# 2033
Delta R.T. 0.000 min
Lab File: BF133957.D
Acq: 26 Jun 2023 17:37

Tgt Ion:240 Resp: 254464

Ion	Ratio	Lower	Upper
240	100		
120	9.2	7.4	11.0
236	26.3	21.0	31.6

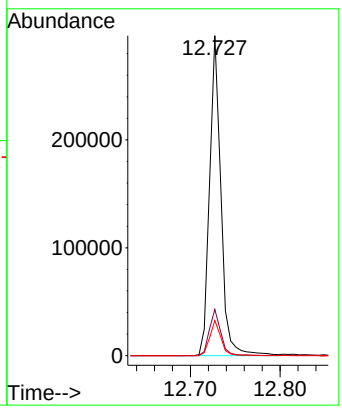




#77
Benzidine
Concen: 43.067 ng
RT: 12.727 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF133957.D
Acq: 26 Jun 2023 17:37

Tgt Ion:184 Resp: 26076

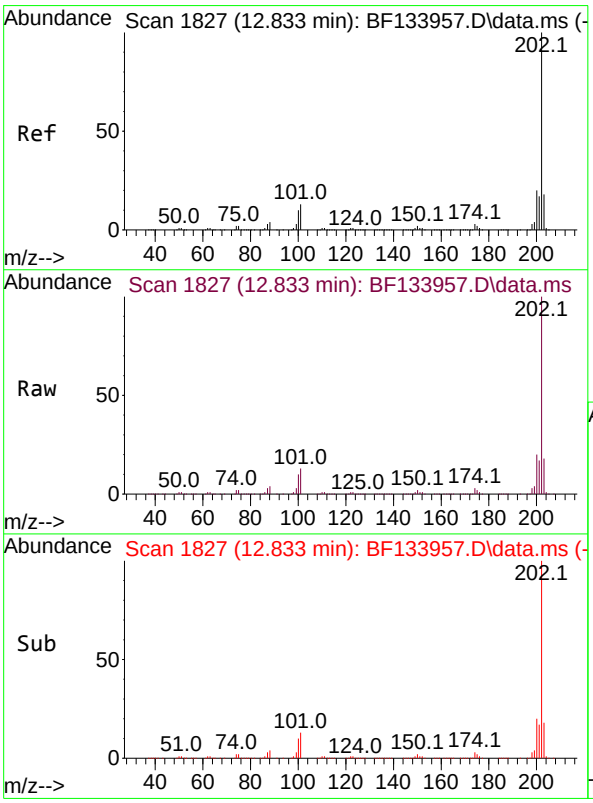
Ion	Ratio	Lower	Upper
184	100		
185	14.5	11.6	17.4
183	11.0	8.8	13.2



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

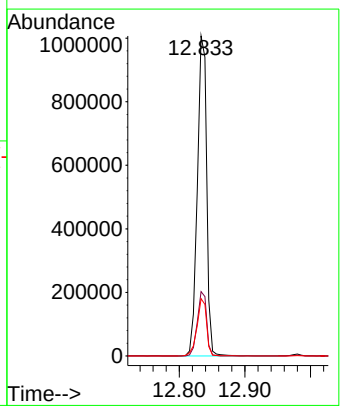
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

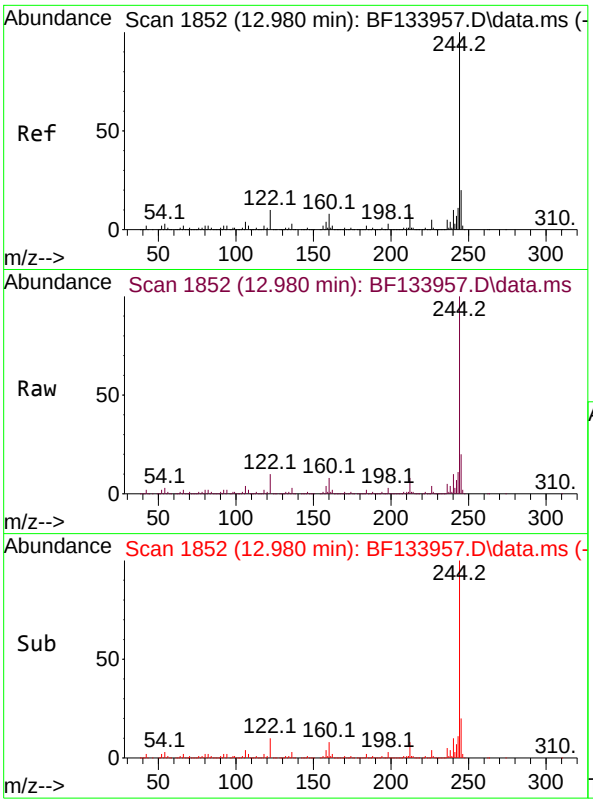


#78
Pyrene
Concen: 42.191 ng
RT: 12.833 min Scan# 1827
Delta R.T. 0.000 min
Lab File: BF133957.D
Acq: 26 Jun 2023 17:37

Tgt Ion:202 Resp: 999135

Ion	Ratio	Lower	Upper
202	100		
200	20.1	16.1	24.1
203	17.9	14.3	21.5

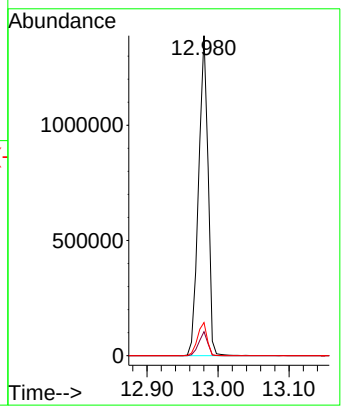




#79
Terphenyl-d14
Concen: 81.577 ng
RT: 12.980 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF133957.D
Acq: 26 Jun 2023 17:37

Tgt Ion:244 Resp: 128981

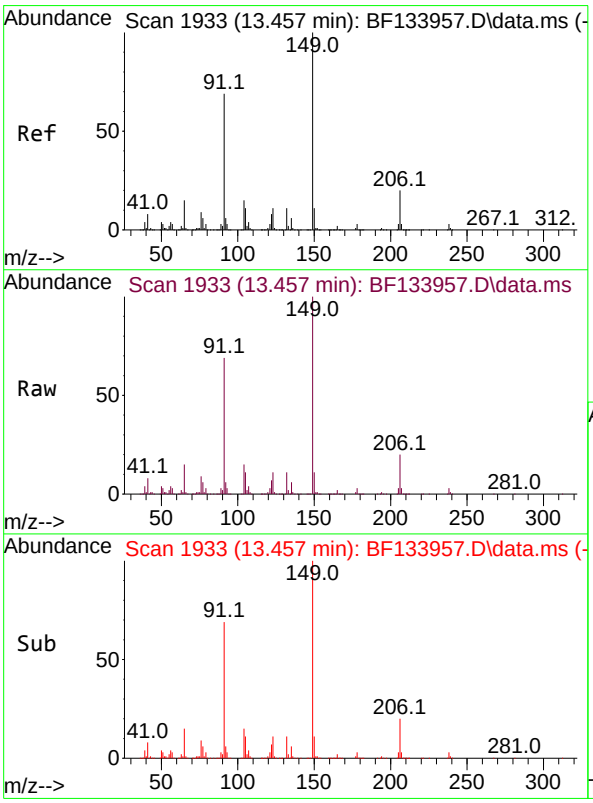
Ion	Ratio	Lower	Upper
244	100		
212	7.5	6.0	9.0
122	10.4	8.3	12.5



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

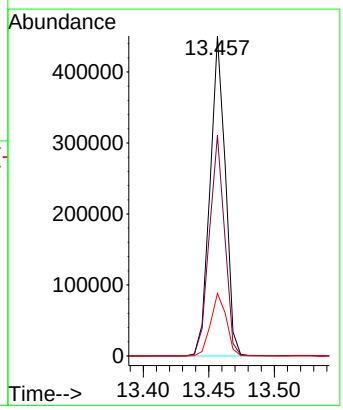
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

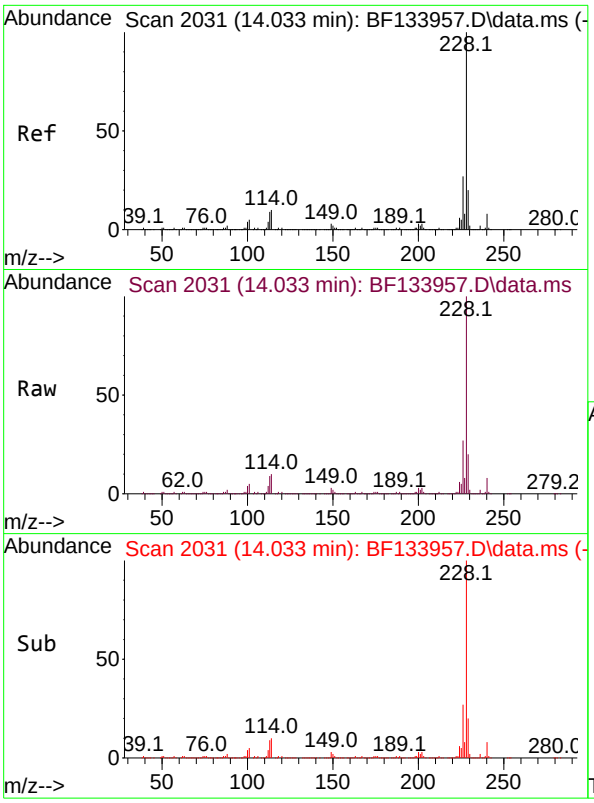


#80
Butylbenzylphthalate
Concen: 41.331 ng
RT: 13.457 min Scan# 1933
Delta R.T. 0.000 min
Lab File: BF133957.D
Acq: 26 Jun 2023 17:37

Tgt Ion:149 Resp: 367087

Ion	Ratio	Lower	Upper
149	100		
91	68.9	55.1	82.7
206	19.6	15.7	23.5

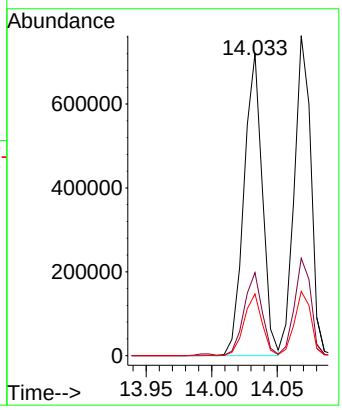




#81
Benzo(a)anthracene
Concen: 39.767 ng
RT: 14.033 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF133957.D
Acq: 26 Jun 2023 17:37

Tgt Ion:228 Resp: 70178

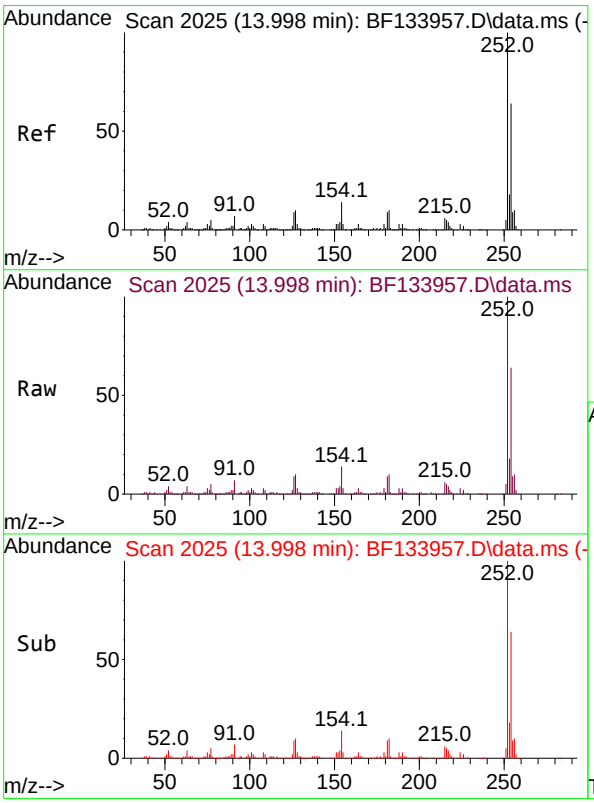
Ion	Ratio	Lower	Upper
228	100		
226	27.5	22.0	33.0
229	20.4	16.3	24.5



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

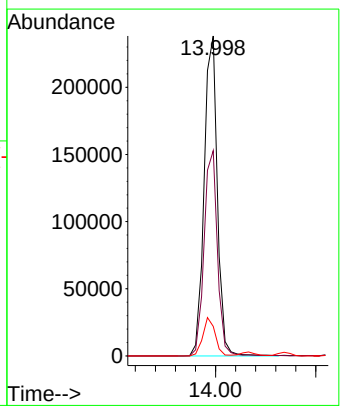
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

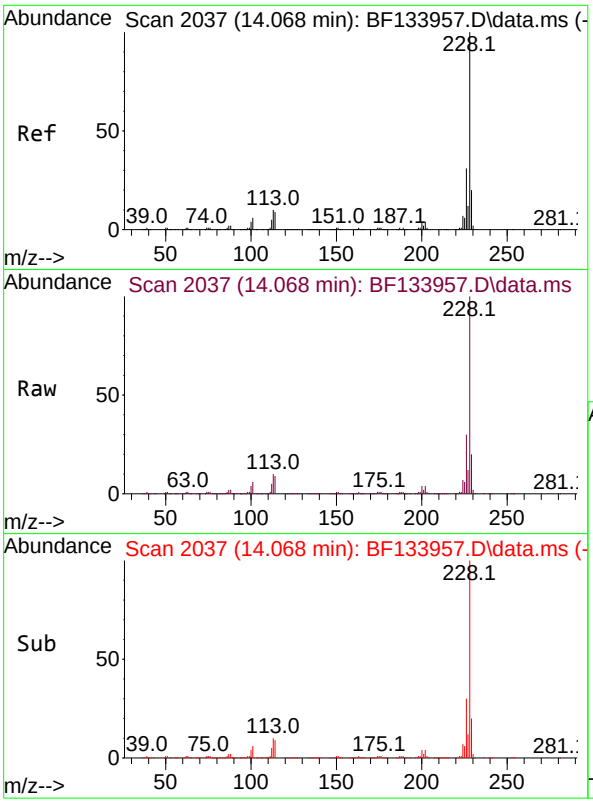


#82
3,3'-Dichlorobenzidine
Concen: 39.146 ng
RT: 13.998 min Scan# 2025
Delta R.T. 0.000 min
Lab File: BF133957.D
Acq: 26 Jun 2023 17:37

Tgt Ion:252 Resp: 218869

Ion	Ratio	Lower	Upper
252	100		
254	64.2	51.4	77.0
126	9.3	7.4	11.2

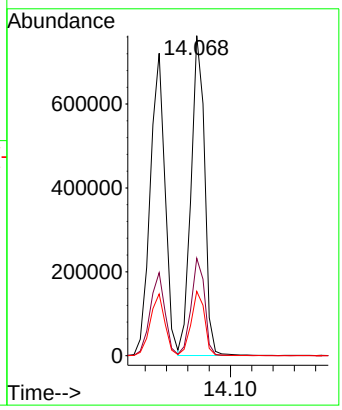




#83
Chrysene
Concen: 39.565 ng
RT: 14.068 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF133957.D
Acq: 26 Jun 2023 17:37

Tgt Ion:228 Resp: 67627

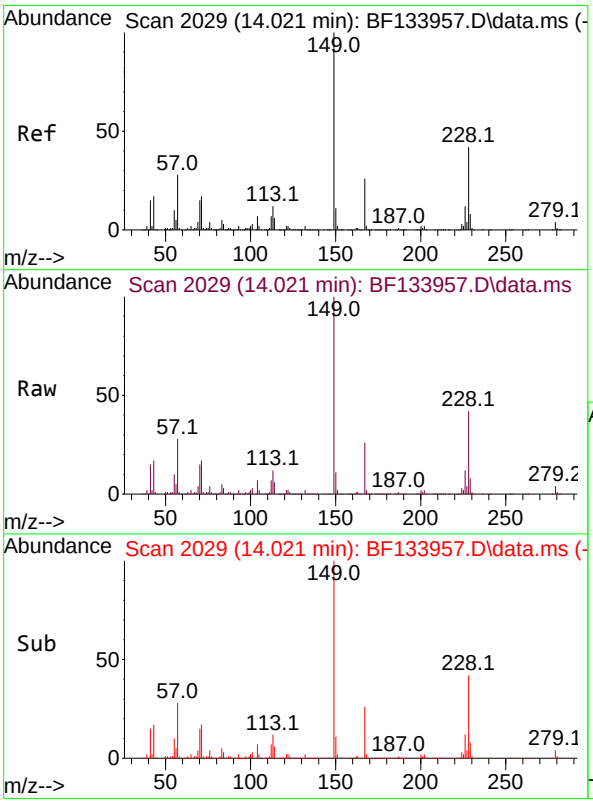
Ion	Ratio	Lower	Upper
228	100		
226	30.5	24.4	36.6
229	20.1	16.1	24.1



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

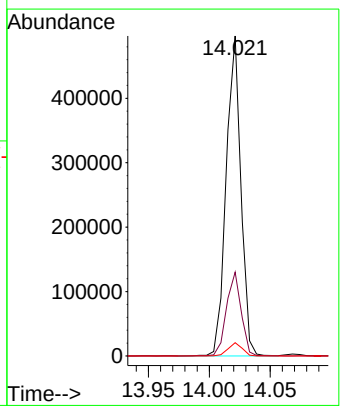
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

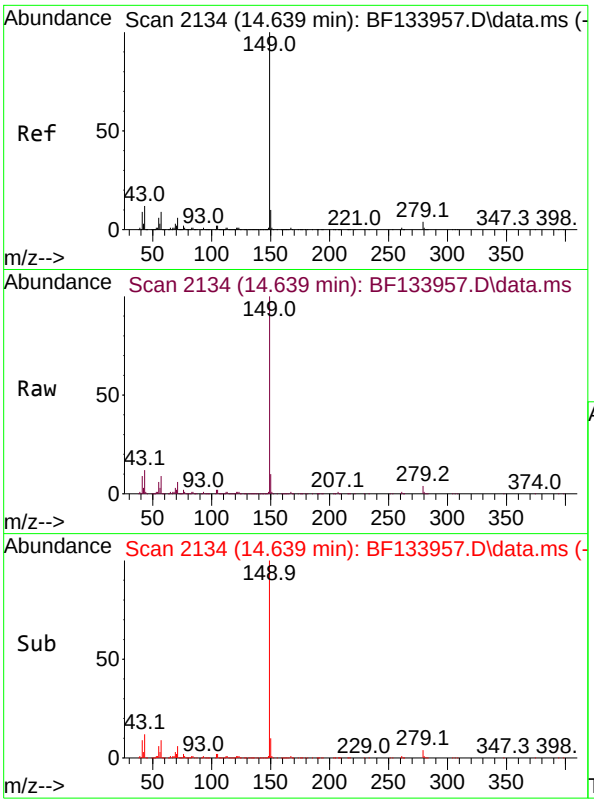


#84
Bis(2-ethylhexyl)phthalate
Concen: 40.945 ng
RT: 14.021 min Scan# 2029
Delta R.T. 0.000 min
Lab File: BF133957.D
Acq: 26 Jun 2023 17:37

Tgt Ion:149 Resp: 417864

Ion	Ratio	Lower	Upper
149	100		
167	26.2	21.0	31.4
279	4.1	3.3	4.9

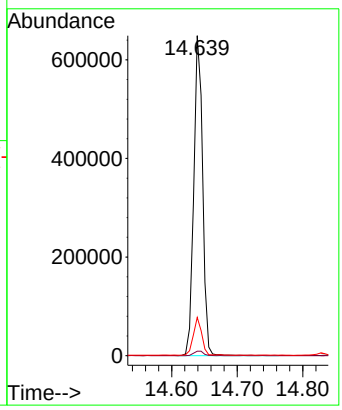




#85
Di-n-octyl phthalate
Concen: 40.686 ng
RT: 14.639 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF133957.D
Acq: 26 Jun 2023 17:37

Tgt Ion:149 Resp: 61011

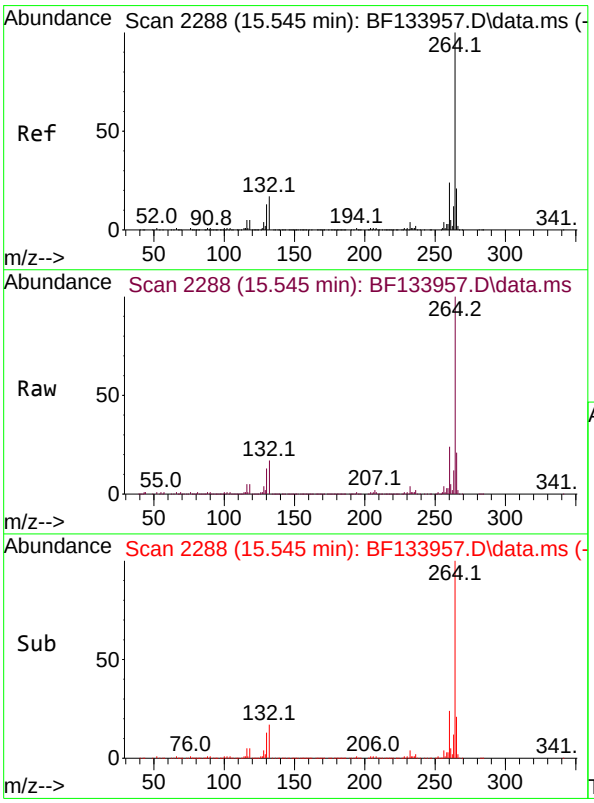
Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	11.2	9.0	13.4



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

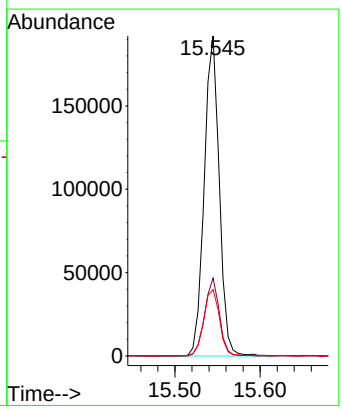
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

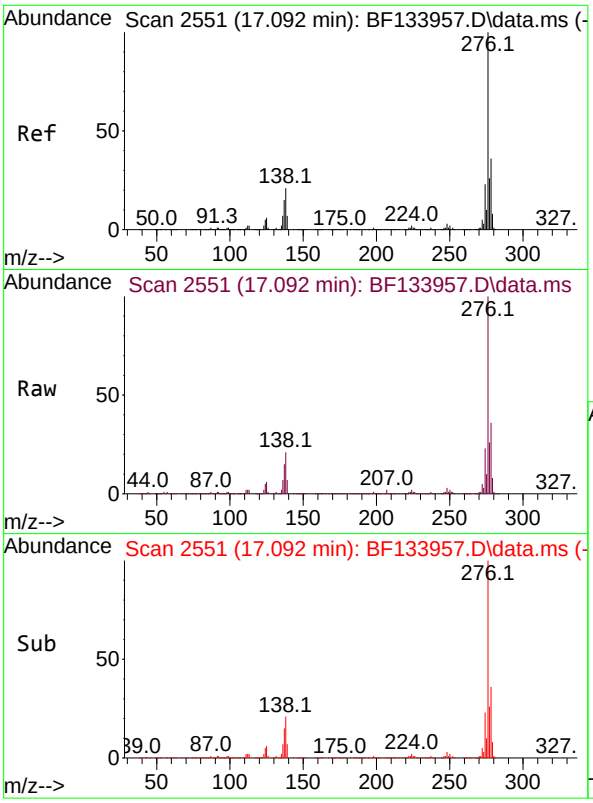


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.545 min Scan# 2288
Delta R.T. 0.000 min
Lab File: BF133957.D
Acq: 26 Jun 2023 17:37

Tgt Ion:264 Resp: 235243

Ion	Ratio	Lower	Upper
264	100		
260	24.3	19.5	29.3
265	20.8	16.6	25.0

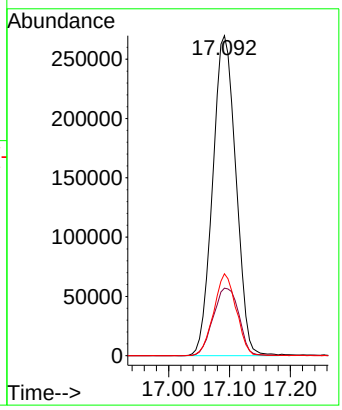




#87
Indeno(1,2,3-cd)pyrene
Concen: 43.822 ng
RT: 17.092 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF133957.D
Acq: 26 Jun 2023 17:37

Tgt Ion:276 Resp: 71532

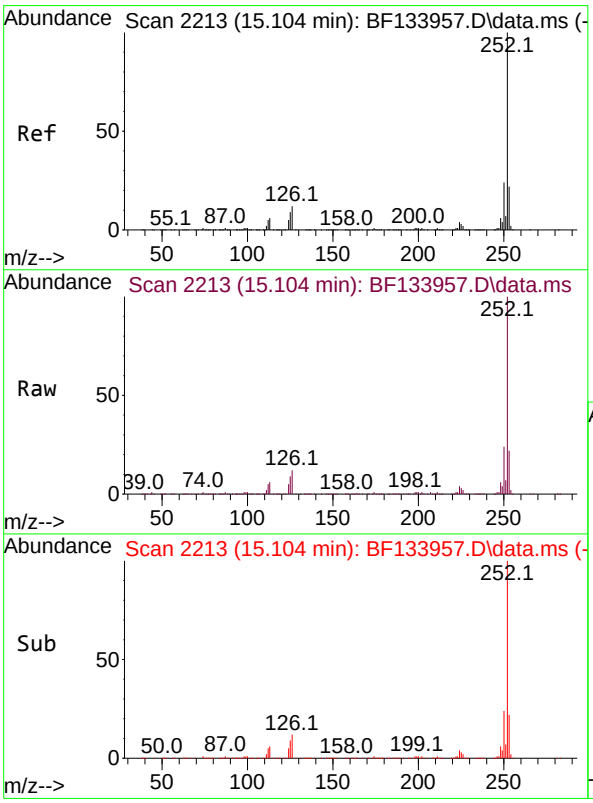
Ion	Ratio	Lower	Upper
276	100		
138	23.4	18.7	28.1
277	24.9	19.9	29.9



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

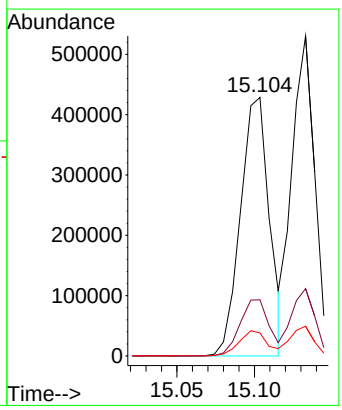
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

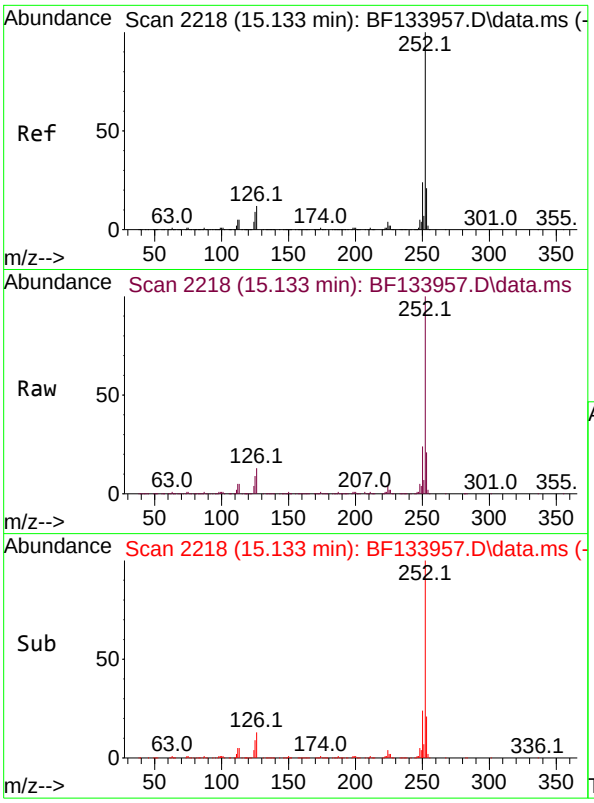


#88
Benzo(b)fluoranthene
Concen: 40.176 ng
RT: 15.104 min Scan# 2213
Delta R.T. 0.000 min
Lab File: BF133957.D
Acq: 26 Jun 2023 17:37

Tgt Ion:252 Resp: 555737

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.4	26.0
125	8.9	7.1	10.7

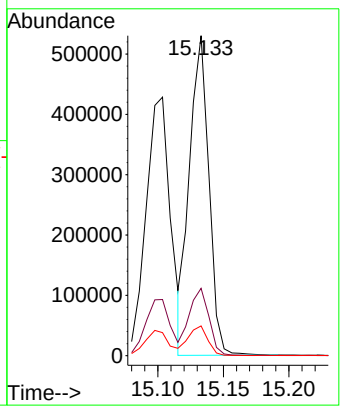




#89
Benzo(k)fluoranthene
Concen: 38.795 ng
RT: 15.133 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF133957.D
Acq: 26 Jun 2023 17:37

Tgt Ion:252 Resp: 54636

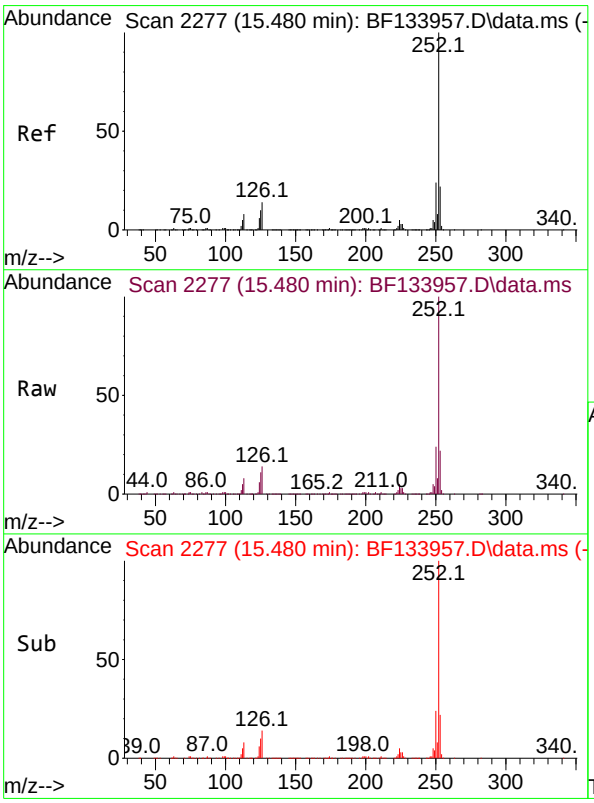
Ion	Ratio	Lower	Upper
252	100		
253	21.1	16.9	25.3
125	9.3	7.4	11.2



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

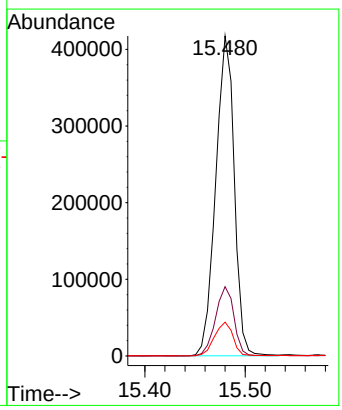
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

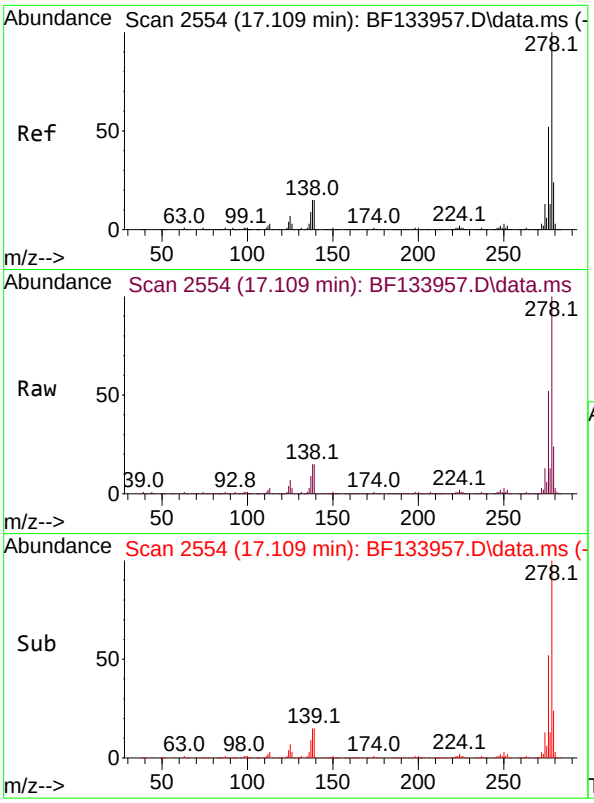


#90
Benzo(a)pyrene
Concen: 40.006 ng
RT: 15.480 min Scan# 2277
Delta R.T. 0.000 min
Lab File: BF133957.D
Acq: 26 Jun 2023 17:37

Tgt Ion:252 Resp: 535114

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.4	26.0
125	10.5	8.4	12.6

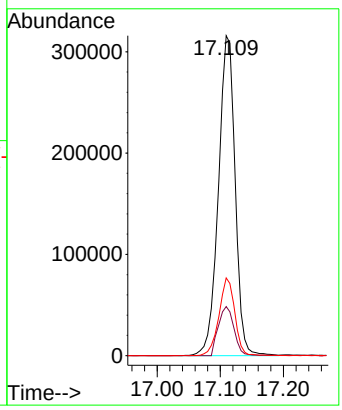




#91
Dibenzo(a,h)anthracene
Concen: 43.765 ng
RT: 17.109 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF133957.D
Acq: 26 Jun 2023 17:37

Tgt Ion:278 Resp: 58351

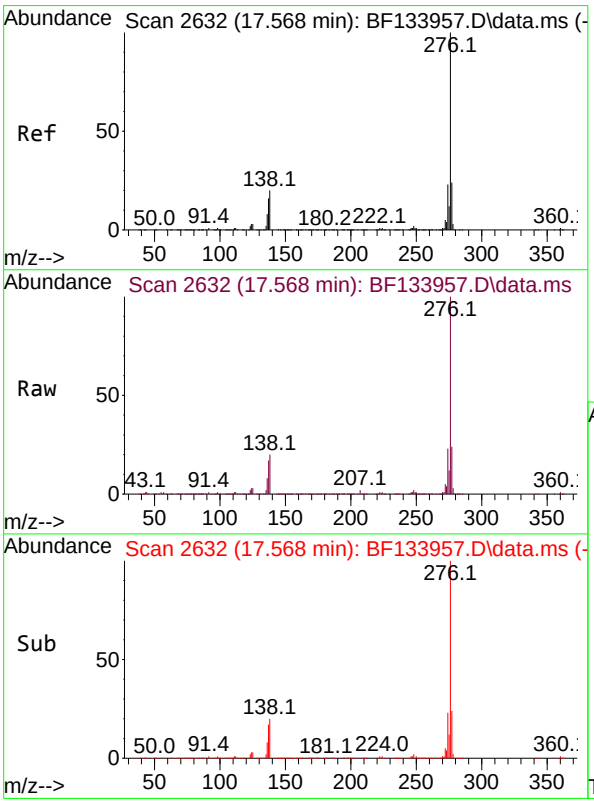
Ion	Ratio	Lower	Upper
278	100		
139	15.3	12.2	18.4
279	24.3	19.4	29.2



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

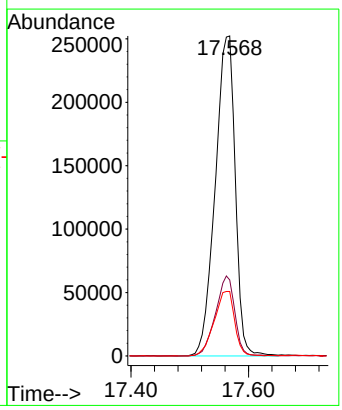
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023



#92
Benzo(g,h,i)perylene
Concen: 43.433 ng
RT: 17.568 min Scan# 2632
Delta R.T. 0.000 min
Lab File: BF133957.D
Acq: 26 Jun 2023 17:37

Tgt Ion:276 Resp: 597174

Ion	Ratio	Lower	Upper
276	100		
277	23.8	19.0	28.6
138	20.2	16.2	24.2



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF062623\
Data File : BF133958.D
Acq On : 26 Jun 2023 18:12
Operator : CG\JU
Sample : SSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 26 23:06:08 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF062623.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Jun 26 22:39:13 2023
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.851	152	138537	20.000	ng	0.00
21) Naphthalene-d8	8.134	136	504202	20.000	ng	0.00
39) Acenaphthene-d10	9.892	164	246704	20.000	ng	0.00
64) Phenanthrene-d10	11.386	188	494791	20.000	ng	0.00
76) Chrysene-d12	14.045	240	242439	20.000	ng	0.00
86) Perylene-d12	15.545	264	244365	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.481	112	745346	89.997	ng	0.00
7) Phenol-d6	6.493	99	929235	91.235	ng	0.00
23) Nitrobenzene-d5	7.422	82	875502	93.602	ng	0.00
42) 2,4,6-Tribromophenol	10.686	330	289295	93.527	ng	0.00
45) 2-Fluorobiphenyl	9.210	172	1532954	90.341	ng	0.00
79) Terphenyl-d14	12.980	244	1471893	97.711	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.634	88	155217	45.453	ng	98
3) Pyridine	3.416	79	418782	46.925	ng	99
4) n-Nitrosodimethylamine	3.387	42	240028	47.248	ng	99
6) Aniline	6.522	93	584685	47.175	ng	99
8) 2-Chlorophenol	6.640	128	389382	46.316	ng	100
9) Benzaldehyde	6.410	77	252697	47.436	ng	99
10) Phenol	6.510	94	489136	45.676	ng	93
11) bis(2-Chloroethyl)ether	6.593	93	367066	46.558	ng	98
12) 1,3-Dichlorobenzene	6.793	146	410049	45.749	ng	99
13) 1,4-Dichlorobenzene	6.869	146	416520	46.009	ng	100
14) 1,2-Dichlorobenzene	7.022	146	386065	45.534	ng	99
15) Benzyl Alcohol	6.998	79	359843	45.829	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.128	45	662535	47.500	ng	98
17) 2-Methylphenol	7.104	107	354966	47.150	ng	99
18) Hexachloroethane	7.363	117	155344	46.278	ng	96
19) n-Nitroso-di-n-propyla...	7.269	70	282376	43.718	ng	96
20) 3+4-Methylphenols	7.263	107	407499	44.617	ng	93
22) Acetophenone	7.263	105	513744	44.803	ng	97
24) Nitrobenzene	7.440	77	443552	46.927	ng	97
25) Isophorone	7.675	82	798262	46.959	ng	99
26) 2-Nitrophenol	7.751	139	221791	48.915	ng	98
27) 2,4-Dimethylphenol	7.787	122	334044	46.541	ng	99
28) bis(2-Chloroethoxy)met...	7.887	93	457550	46.484	ng	99
29) 2,4-Dichlorophenol	7.992	162	332100	46.662	ng	99
30) 1,2,4-Trichlorobenzene	8.075	180	337483	45.955	ng	99
31) Naphthalene	8.157	128	1110159	45.583	ng	99
32) Benzoic acid	7.916	122	275719m	52.277	ng	
33) 4-Chloroaniline	8.204	127	490308	47.064	ng	99
34) Hexachlorobutadiene	8.269	225	217251	46.897	ng	99
35) Caprolactam	8.592	113	111418	47.545	ng	97
36) 4-Chloro-3-methylphenol	8.687	107	369996	46.276	ng	98
37) 2-Methylnaphthalene	8.845	142	767863	44.585	ng	99
38) 1-Methylnaphthalene	8.945	142	713927	44.590	ng	99
40) 1,2,4,5-Tetrachloroben...	9.010	216	346767	47.444	ng	100
41) Hexachlorocyclopentadiene	8.998	237	182942	52.759	ng	99
43) 2,4,6-Trichlorophenol	9.128	196	240876	48.412	ng	98

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF062623\
Data File : BF133958.D
Acq On : 26 Jun 2023 18:12
Operator : CG\JU
Sample : SSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

Quant Time: Jun 26 23:06:08 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF062623.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Jun 26 22:39:13 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.169	196	279946	47.833	ng	94
46) 1,1'-Biphenyl	9.310	154	930032	46.996	ng	99
47) 2-Chloronaphthalene	9.339	162	682302	47.122	ng	99
48) 2-Nitroaniline	9.434	65	260449	49.356	ng	98
49) Acenaphthylene	9.757	152	1172330	47.397	ng	99
50) Dimethylphthalate	9.616	163	847450	47.322	ng	99
51) 2,6-Dinitrotoluene	9.681	165	187146	48.519	ng	96
52) Acenaphthene	9.928	154	671503	46.787	ng	98
53) 3-Nitroaniline	9.851	138	219563	47.449	ng	98
54) 2,4-Dinitrophenol	9.957	184	104235	48.398	ng	97
55) Dibenzofuran	10.098	168	1043456	46.520	ng	100
56) 4-Nitrophenol	10.010	139	163293	50.450	ng	99
57) 2,4-Dinitrotoluene	10.086	165	244199	47.940	ng	97
58) Fluorene	10.445	166	794978	45.556	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.216	232	220483	47.759	ng	98
60) Diethylphthalate	10.316	149	872503	46.764	ng	100
61) 4-Chlorophenyl-phenyle...	10.433	204	384149	45.679	ng	98
62) 4-Nitroaniline	10.469	138	228366	48.970	ng	99
63) Azobenzene	10.598	77	837354	47.446	ng	99
65) 4,6-Dinitro-2-methylph...	10.498	198	139123	51.573	ng	88
66) n-Nitrosodiphenylamine	10.557	169	725318	45.881	ng	99
67) 4-Bromophenyl-phenylether	10.928	248	245576	46.696	ng	97
68) Hexachlorobenzene	10.992	284	261285	46.793	ng	99
69) Atrazine	11.086	200	199180	45.550	ng	99
70) Pentachlorophenol	11.186	266	165958	49.708	ng	99
71) Phenanthrene	11.410	178	1148857	46.123	ng	100
72) Anthracene	11.463	178	1176893	45.426	ng	99
73) Carbazole	11.622	167	1007298	42.478	ng	99
74) Di-n-butylphthalate	11.951	149	1214261	43.059	ng	100
75) Fluoranthene	12.604	202	1136699	42.212	ng	100
77) Benzidine	12.727	184	274181	47.529	ng	98
78) Pyrene	12.839	202	1133825	50.253	ng	100
80) Butylbenzylphthalate	13.457	149	415250	49.073	ng	99
81) Benzo(a)anthracene	14.033	228	795350	47.304	ng	99
82) 3,3'-Dichlorobenzidine	13.998	252	249747	46.884	ng	99
83) Chrysene	14.069	228	763387	46.877	ng	99
84) Bis(2-ethylhexyl)phtha...	14.021	149	475731	48.927	ng	99
85) Di-n-octyl phthalate	14.639	149	720455	50.427	ng	99
87) Indeno(1,2,3-cd)pyrene	17.098	276	943918	55.667	ng	99
88) Benzo(b)fluoranthene	15.104	252	653614	45.488	ng	100
89) Benzo(k)fluoranthene	15.133	252	667469	45.624	ng	99
90) Benzo(a)pyrene	15.486	252	654769	47.124	ng	99
91) Dibenzo(a,h)anthracene	17.115	278	766526	55.345	ng	99
92) Benzo(g,h,i)perylene	17.574	276	791765	55.436	ng	100

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

ICAL Form

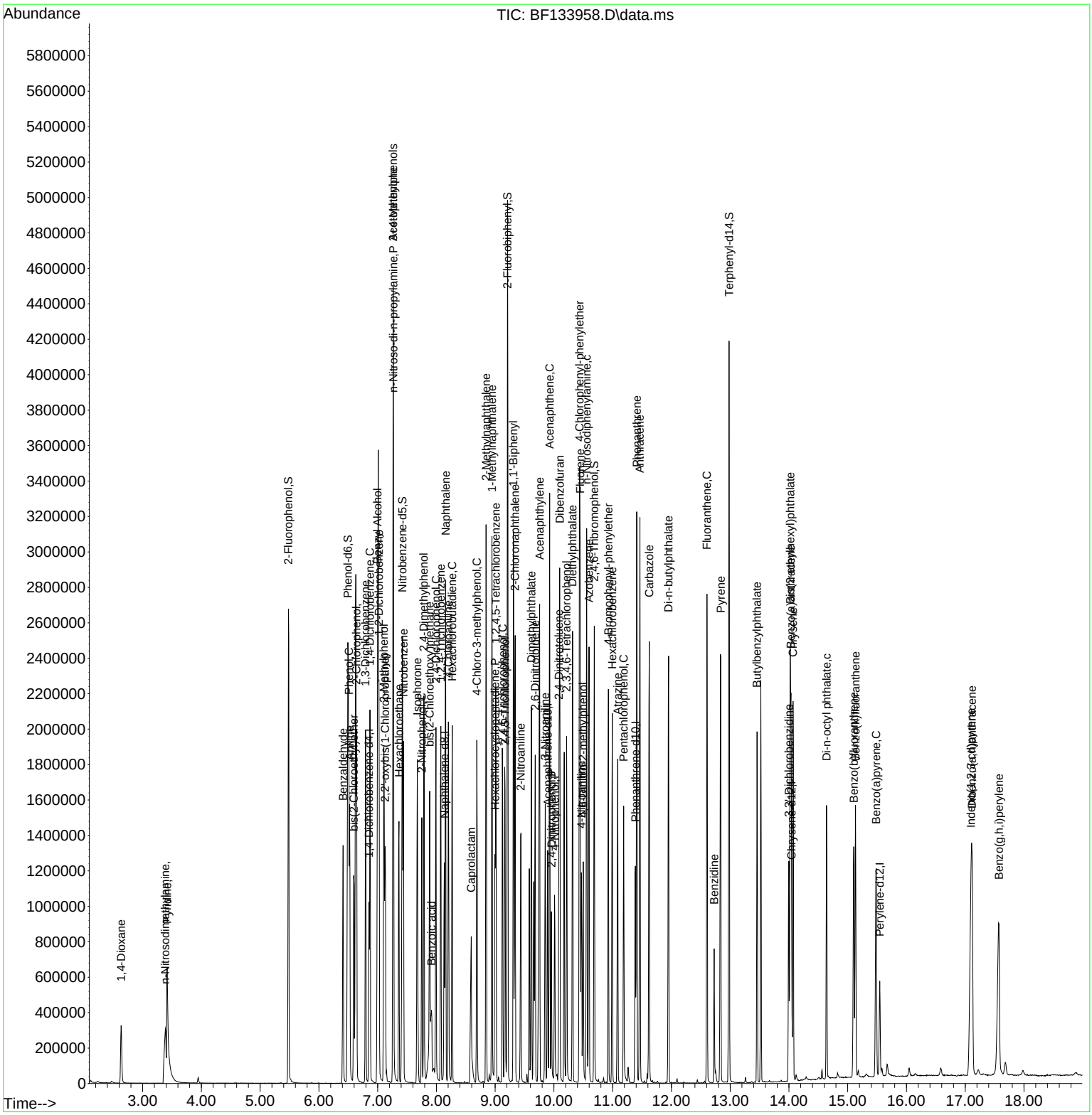
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF062623\
Data File : BF133958.D
Acq On : 26 Jun 2023 18:12
Operator : CG\JU
Sample : SSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

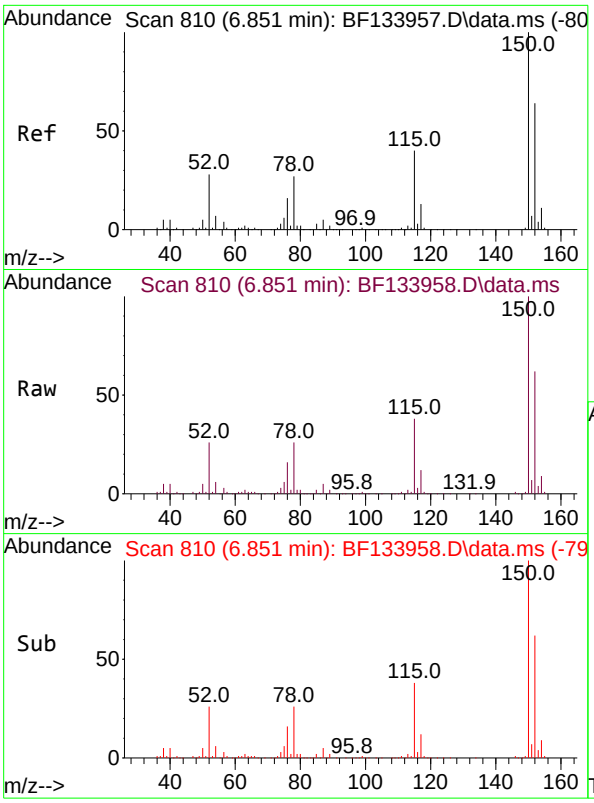
Quant Time: Jun 26 23:06:08 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF062623.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Jun 26 22:39:13 2023
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

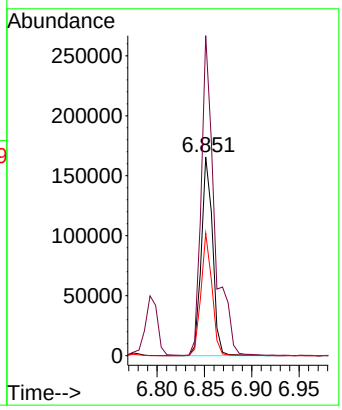




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.851 min Scan# 81
Delta R.T. 0.000 min
Lab File: BF133958.D
Acq: 26 Jun 2023 18:12

Tgt Ion:152 Resp: 13853

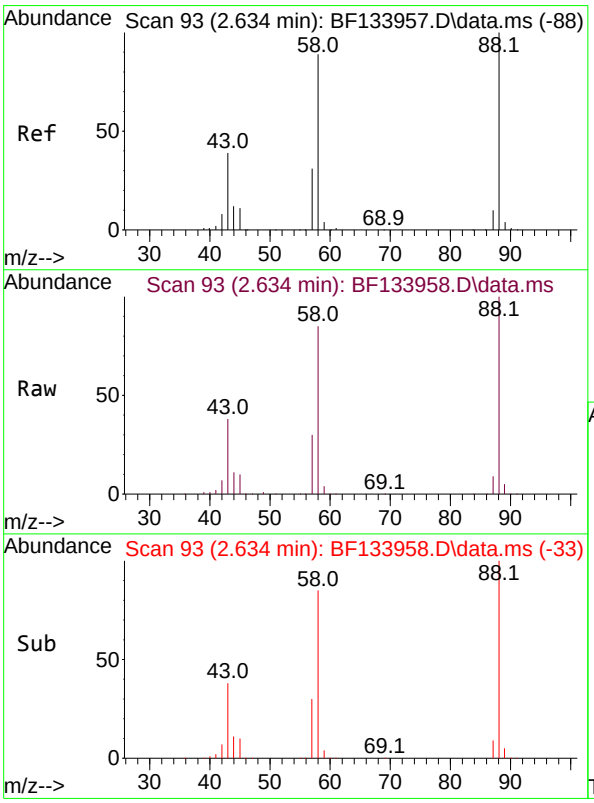
Ion	Ratio	Lower	Upper
152	100		
150	161.1	124.5	186.7
115	61.6	50.2	75.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

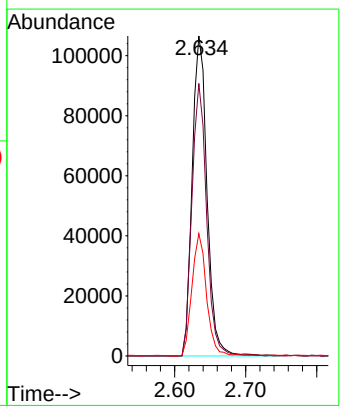
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

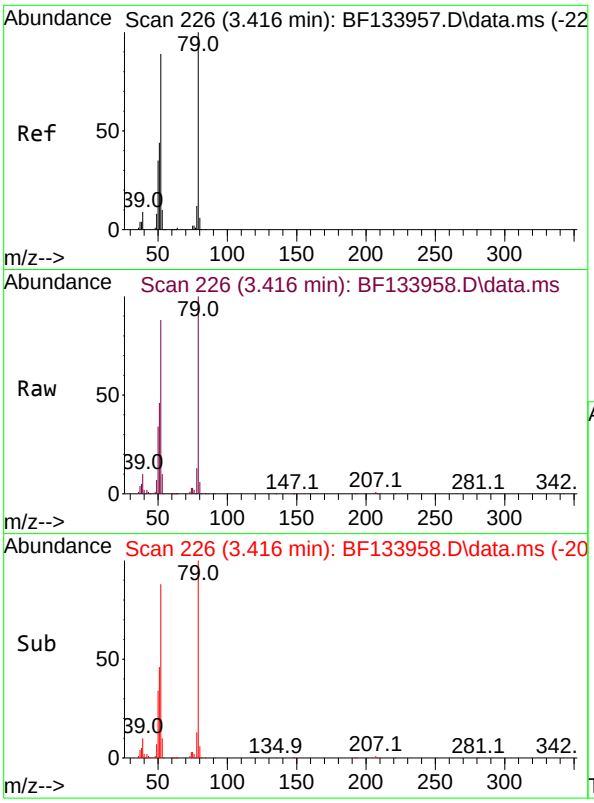


#2
1,4-Dioxane
Concen: 45.453 ng
RT: 2.634 min Scan# 93
Delta R.T. 0.000 min
Lab File: BF133958.D
Acq: 26 Jun 2023 18:12

Tgt Ion: 88 Resp: 155217

Ion	Ratio	Lower	Upper
88	100		
58	84.0	68.8	103.2
43	37.9	30.7	46.1

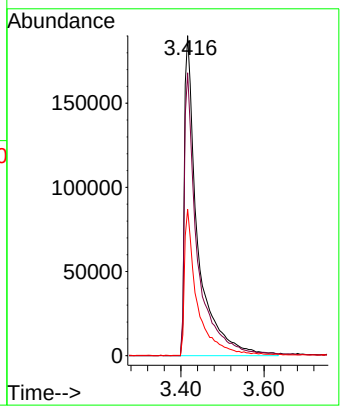




#3
Pyridine
Concen: 46.925 ng
RT: 3.416 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF133958.D
Acq: 26 Jun 2023 18:12

Tgt Ion: 79 Resp: 41878

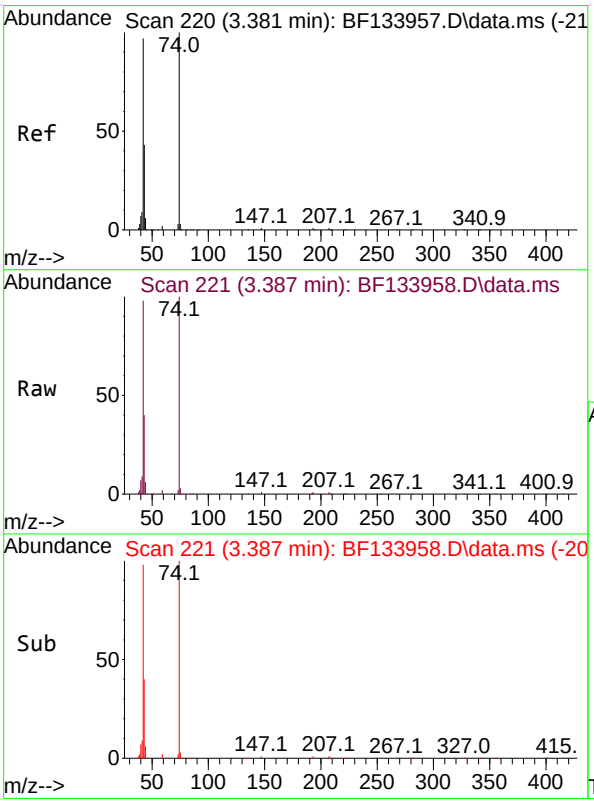
Ion	Ratio	Lower	Upper
79	100		
52	88.4	71.1	106.7
51	45.7	35.2	52.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

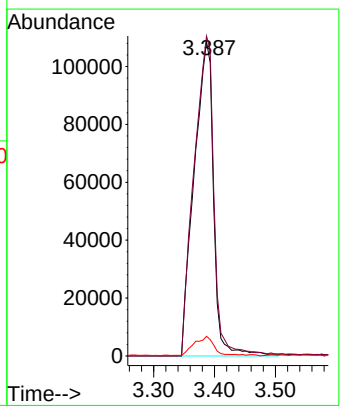
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

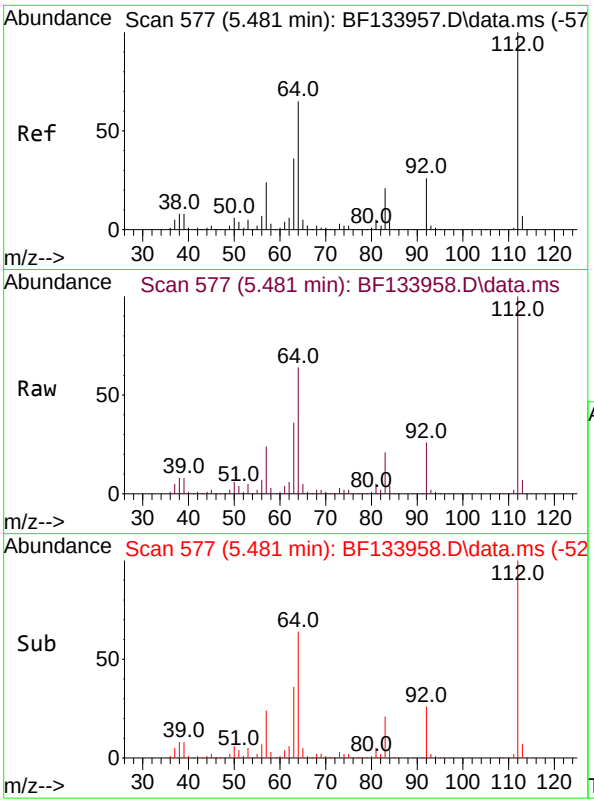


#4
n-Nitrosodimethylamine
Concen: 47.248 ng
RT: 3.387 min Scan# 221
Delta R.T. 0.006 min
Lab File: BF133958.D
Acq: 26 Jun 2023 18:12

Tgt Ion: 42 Resp: 240028

Ion	Ratio	Lower	Upper
42	100		
74	101.8	82.4	123.6
44	6.2	4.9	7.3





#5
2-Fluorophenol
Concen: 89.997 ng
RT: 5.481 min Scan# 5
Delta R.T. 0.000 min
Lab File: BF133958.D
Acq: 26 Jun 2023 18:12

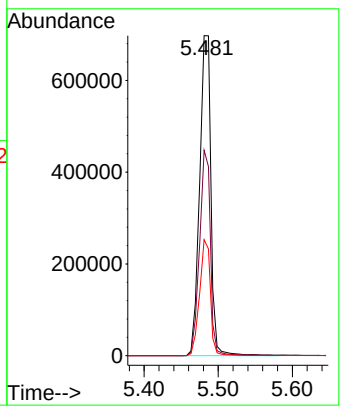
Tgt Ion:112 Resp: 74534

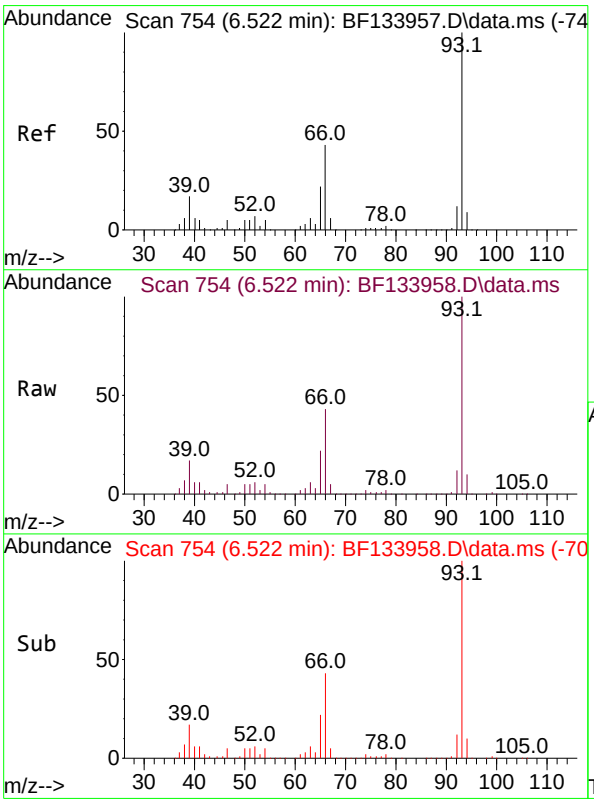
Ion	Ratio	Lower	Upper
112	100		
64	64.2	52.1	78.1
63	36.2	28.6	42.8

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

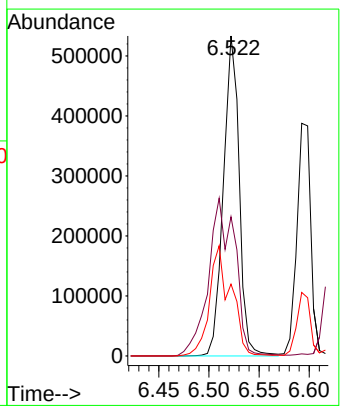


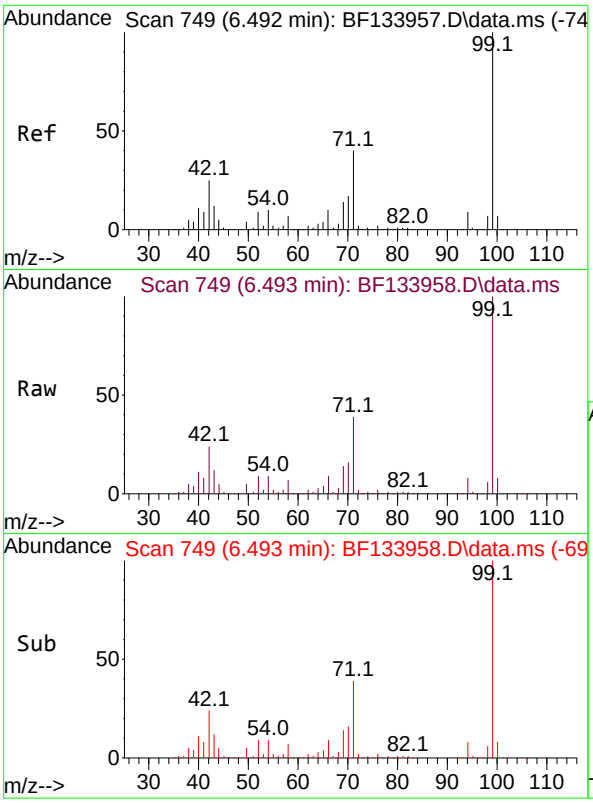


#6
Aniline
Concen: 47.175 ng
RT: 6.522 min Scan# 754
Delta R.T. 0.000 min
Lab File: BF133958.D
Acq: 26 Jun 2023 18:12

Tgt Ion: 93 Resp: 584685

Ion	Ratio	Lower	Upper
93	100		
66	43.5	34.5	51.7
65	22.4	17.8	26.6

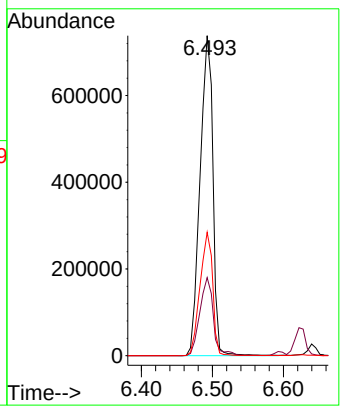




#7
Phenol-d6
Concen: 91.235 ng
RT: 6.493 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF133958.D
Acq: 26 Jun 2023 18:12

Tgt Ion: 99 Resp: 92923

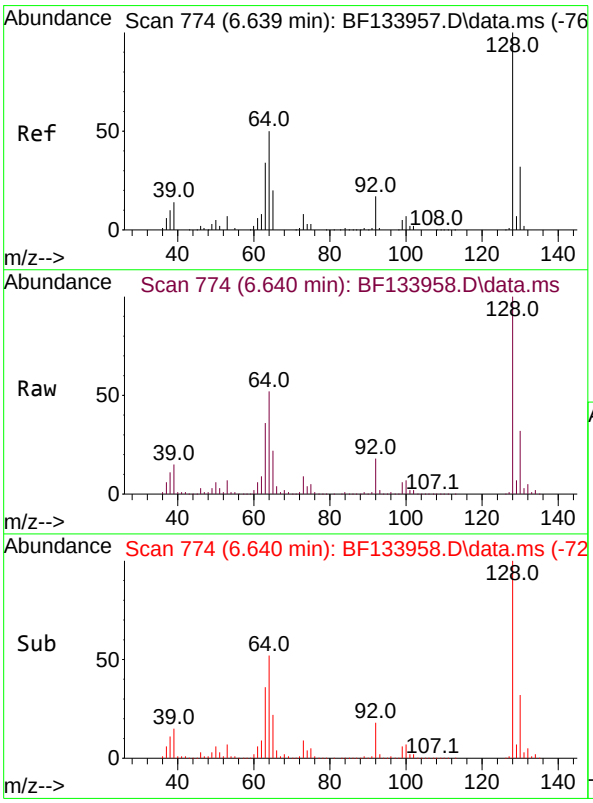
Ion	Ratio	Lower	Upper
99	100		
42	24.4	19.8	29.6
71	38.6	31.9	47.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

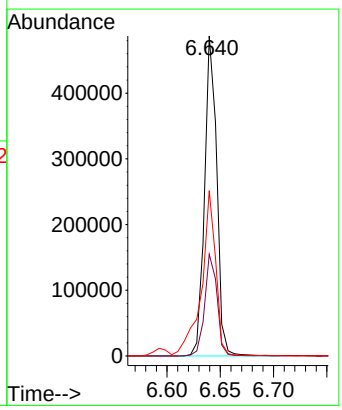
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

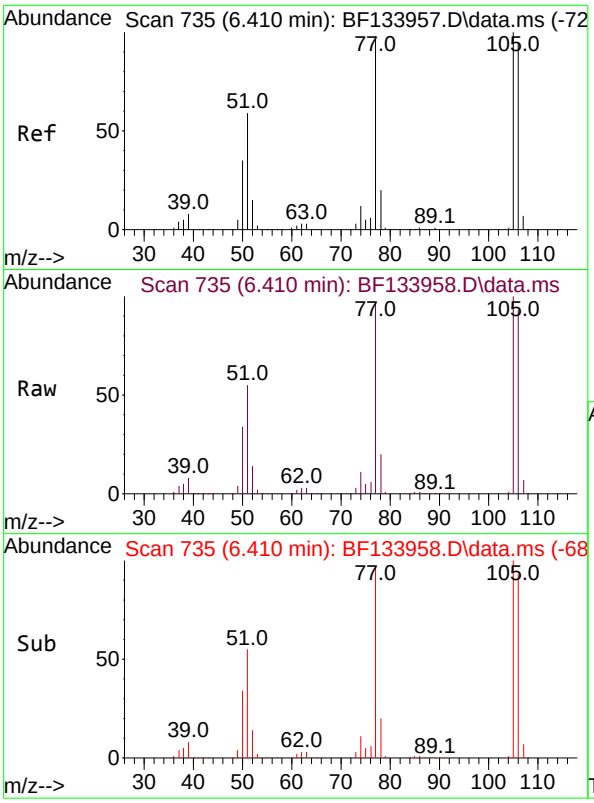


#8
2-Chlorophenol
Concen: 46.316 ng
RT: 6.640 min Scan# 774
Delta R.T. 0.000 min
Lab File: BF133958.D
Acq: 26 Jun 2023 18:12

Tgt Ion:128 Resp: 389382

Ion	Ratio	Lower	Upper
128	100		
130	31.8	11.7	51.7
64	51.7	31.3	71.3

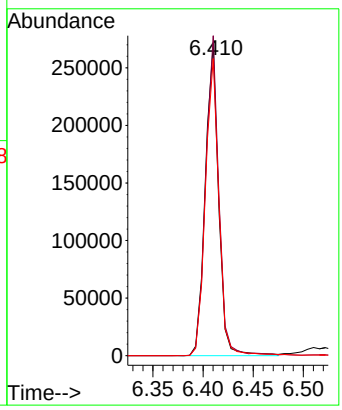




#9
Benzaldehyde
Concen: 47.436 ng
RT: 6.410 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF133958.D
Acq: 26 Jun 2023 18:12

Tgt Ion: 77 Resp: 25269

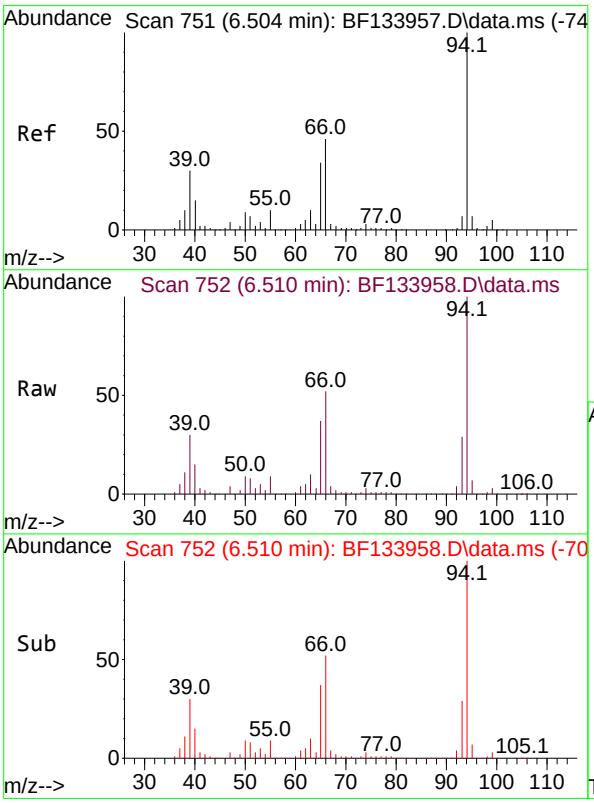
Ion	Ratio	Lower	Upper
77	100		
105	102.9	82.0	122.0
106	95.5	76.9	116.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

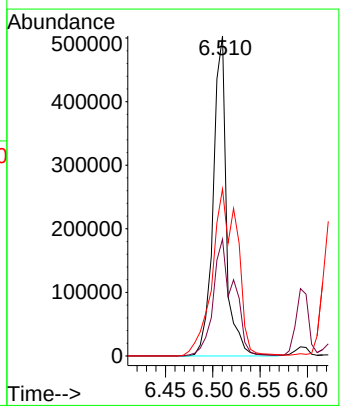
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

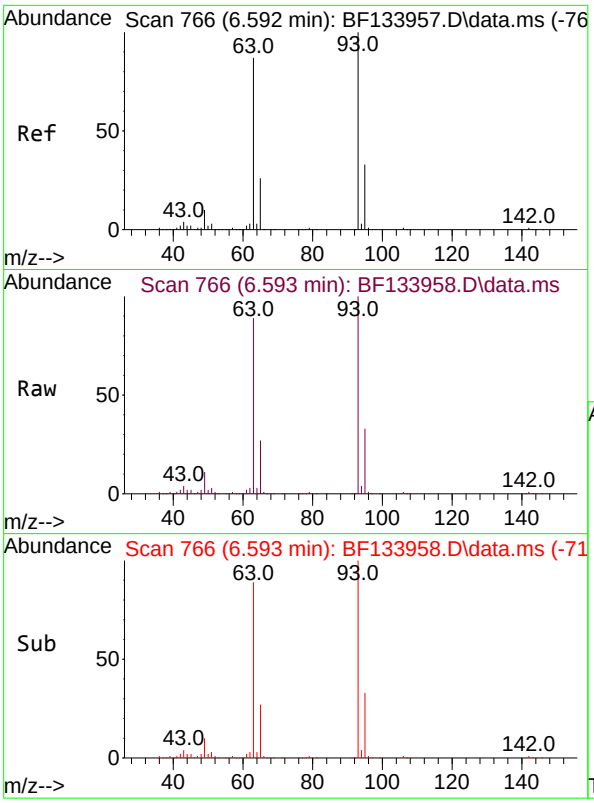


#10
Phenol
Concen: 45.676 ng
RT: 6.510 min Scan# 752
Delta R.T. 0.006 min
Lab File: BF133958.D
Acq: 26 Jun 2023 18:12

Tgt Ion: 94 Resp: 489136

Ion	Ratio	Lower	Upper
94	100		
65	36.5	14.2	54.2
66	52.2	26.4	66.4

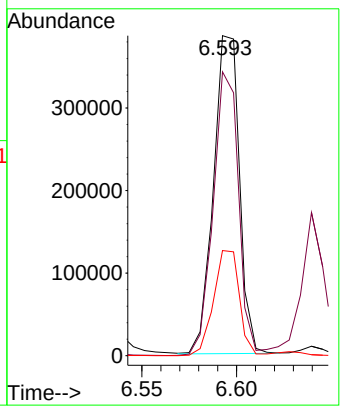




#11
bis(2-Chloroethyl)ether
Concen: 46.558 ng
RT: 6.593 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF133958.D
Acq: 26 Jun 2023 18:12

Tgt Ion: 93 Resp: 36706

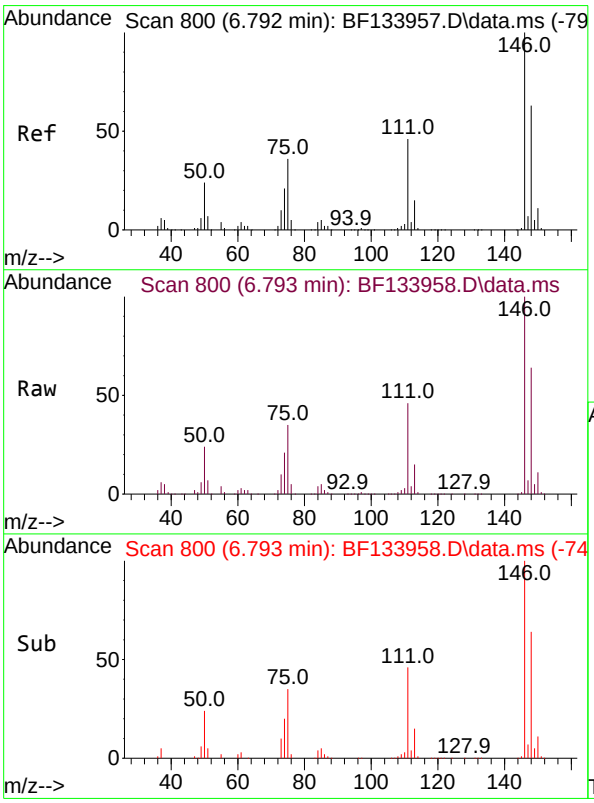
Ion	Ratio	Lower	Upper
93	100		
63	88.7	66.5	106.5
95	32.9	12.9	52.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

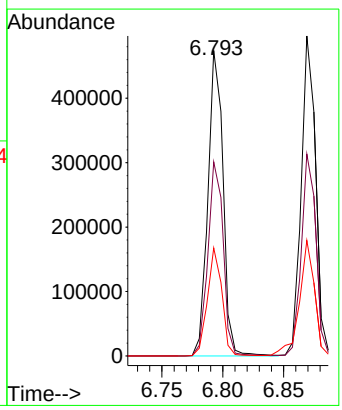
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

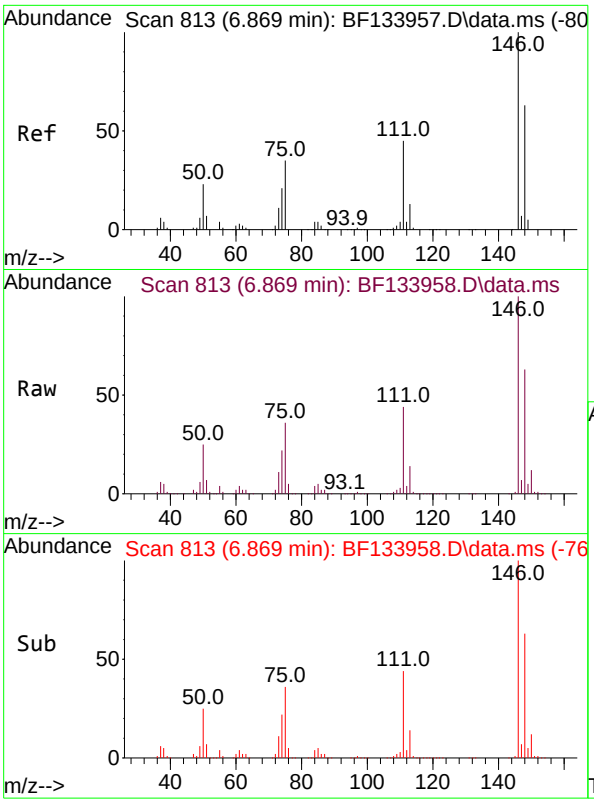


#12
1,3-Dichlorobenzene
Concen: 45.749 ng
RT: 6.793 min Scan# 800
Delta R.T. 0.000 min
Lab File: BF133958.D
Acq: 26 Jun 2023 18:12

Tgt Ion:146 Resp: 410049

Ion	Ratio	Lower	Upper
146	100		
148	63.6	50.5	75.7
75	35.4	29.0	43.6

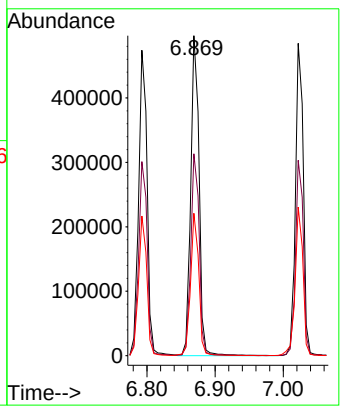




#13
1,4-Dichlorobenzene
Concen: 46.009 ng
RT: 6.869 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF133958.D
Acq: 26 Jun 2023 18:12

Tgt Ion:146 Resp: 41652

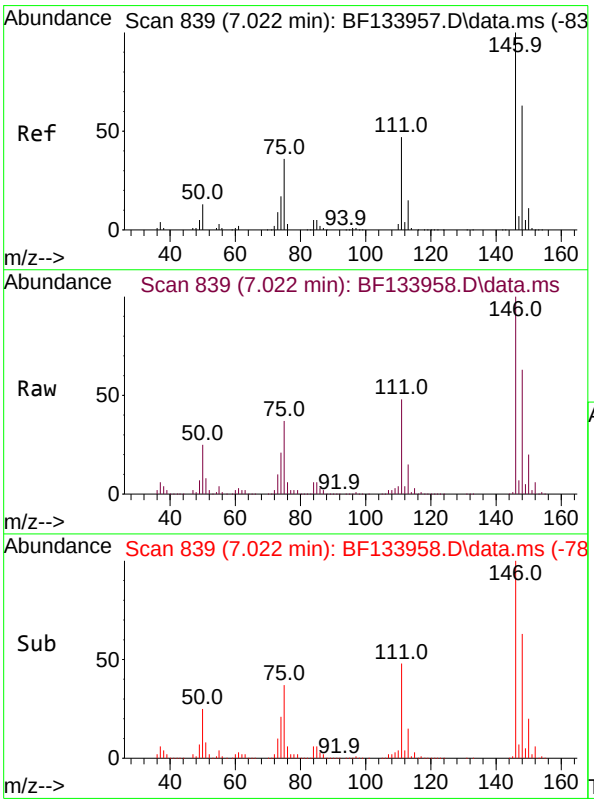
Ion	Ratio	Lower	Upper
146	100		
148	63.1	50.2	75.2
111	44.5	35.8	53.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

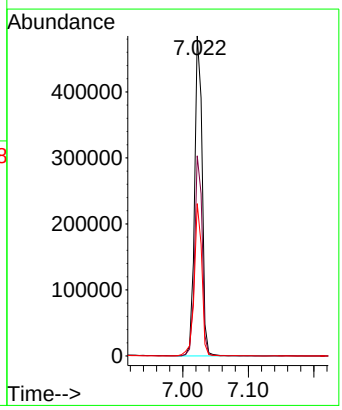
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

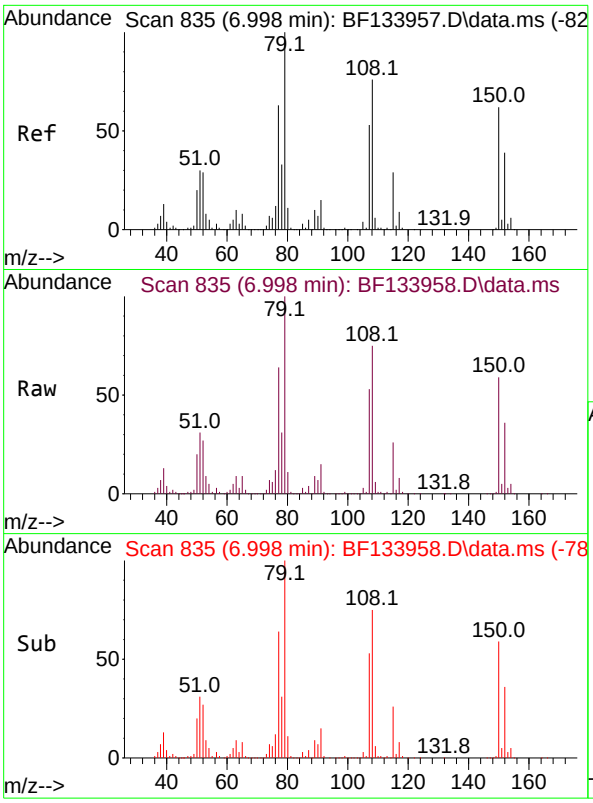


#14
1,2-Dichlorobenzene
Concen: 45.534 ng
RT: 7.022 min Scan# 839
Delta R.T. 0.000 min
Lab File: BF133958.D
Acq: 26 Jun 2023 18:12

Tgt Ion:146 Resp: 386065

Ion	Ratio	Lower	Upper
146	100		
148	62.5	50.6	76.0
111	47.6	38.0	57.0

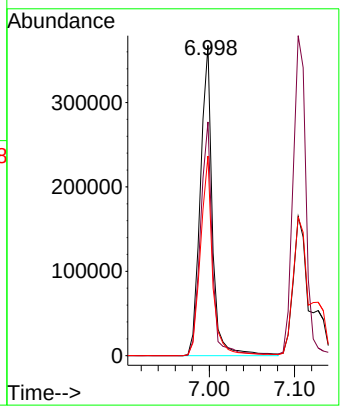




#15
Benzyl Alcohol
Concen: 45.829 ng
RT: 6.998 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF133958.D
Acq: 26 Jun 2023 18:12

Tgt Ion: 79 Resp: 35984

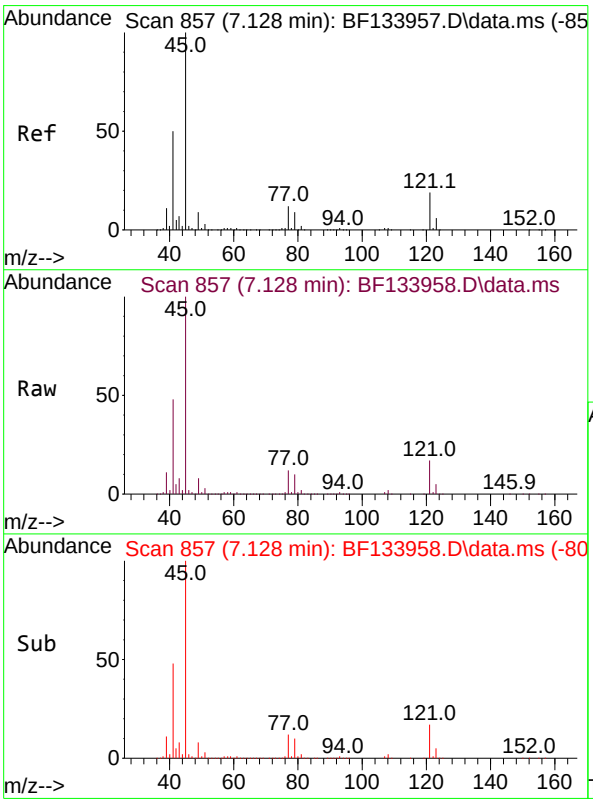
Ion	Ratio	Lower	Upper
79	100		
108	75.3	60.7	91.1
77	64.3	50.6	75.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

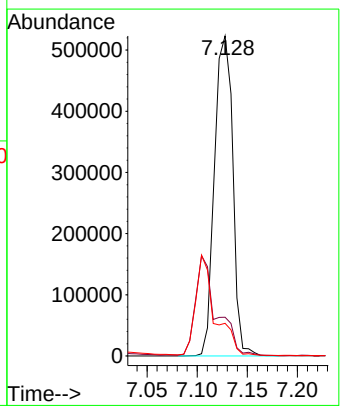
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

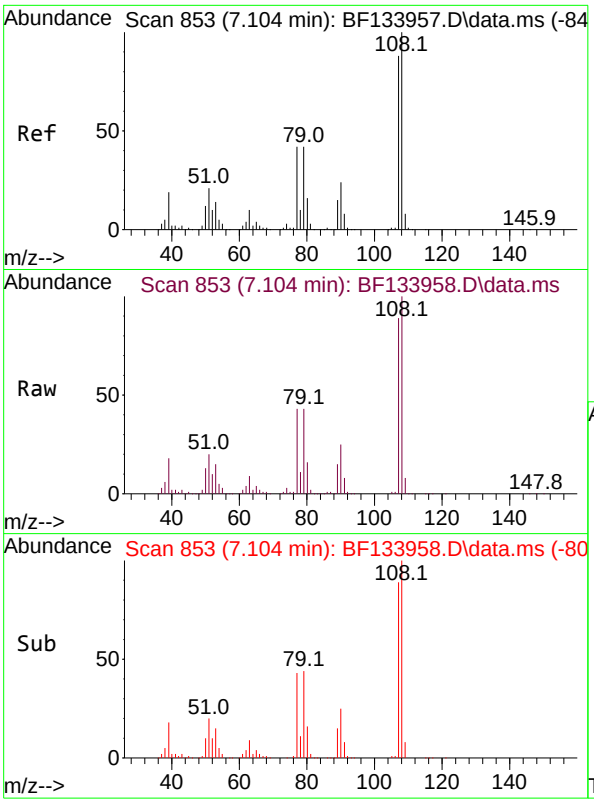


#16
2,2'-oxybis(1-Chloropropane)
Concen: 47.500 ng
RT: 7.128 min Scan# 857
Delta R.T. 0.000 min
Lab File: BF133958.D
Acq: 26 Jun 2023 18:12

Tgt Ion: 45 Resp: 662535

Ion	Ratio	Lower	Upper
45	100		
77	12.1	0.0	32.9
79	10.2	0.0	29.5

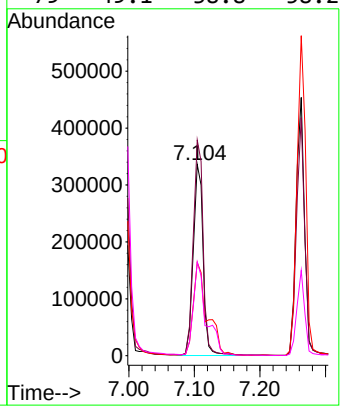




#17
2-Methylphenol
Concen: 47.150 ng
RT: 7.104 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF133958.D
Acq: 26 Jun 2023 18:12

Tgt Ion:107 Resp: 35496

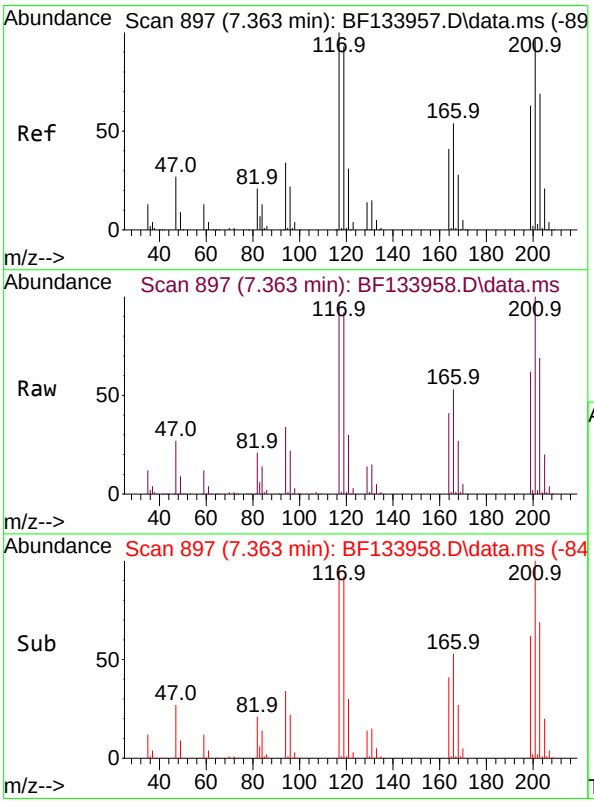
Ion	Ratio	Lower	Upper
107	100		
108	112.8	90.6	136.0
77	48.8	38.3	57.5
79	49.1	38.8	58.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

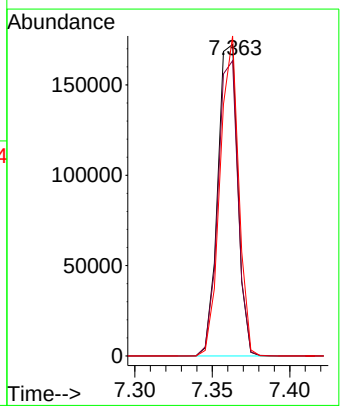
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

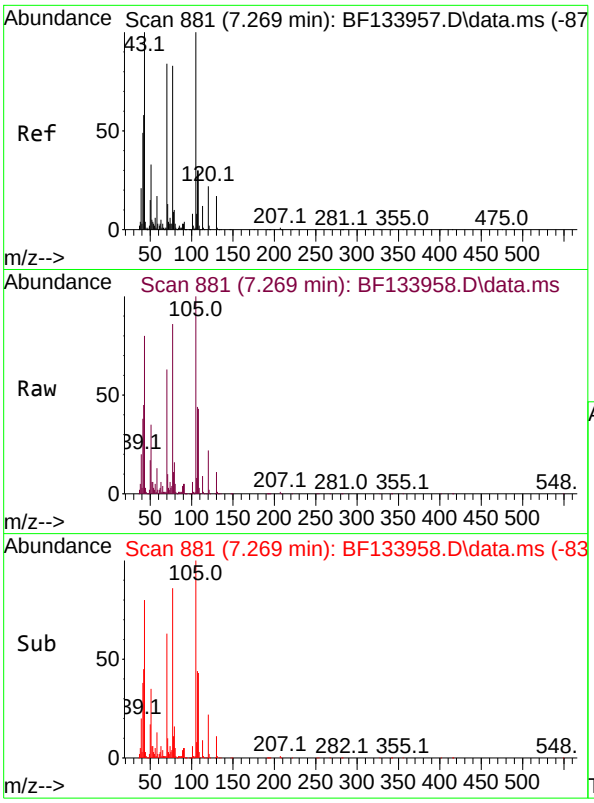


#18
Hexachloroethane
Concen: 46.278 ng
RT: 7.363 min Scan# 897
Delta R.T. 0.000 min
Lab File: BF133958.D
Acq: 26 Jun 2023 18:12

Tgt Ion:117 Resp: 155344

Ion	Ratio	Lower	Upper
117	100		
119	94.7	74.2	111.4
201	102.7	77.2	115.8

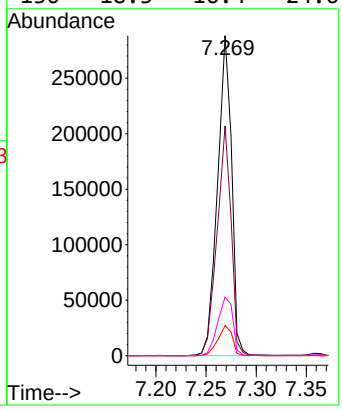




#19
n-Nitroso-di-n-propylamine
Concen: 43.718 ng
RT: 7.269 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF133958.D
Acq: 26 Jun 2023 18:12

Tgt Ion: 70 Resp: 28237

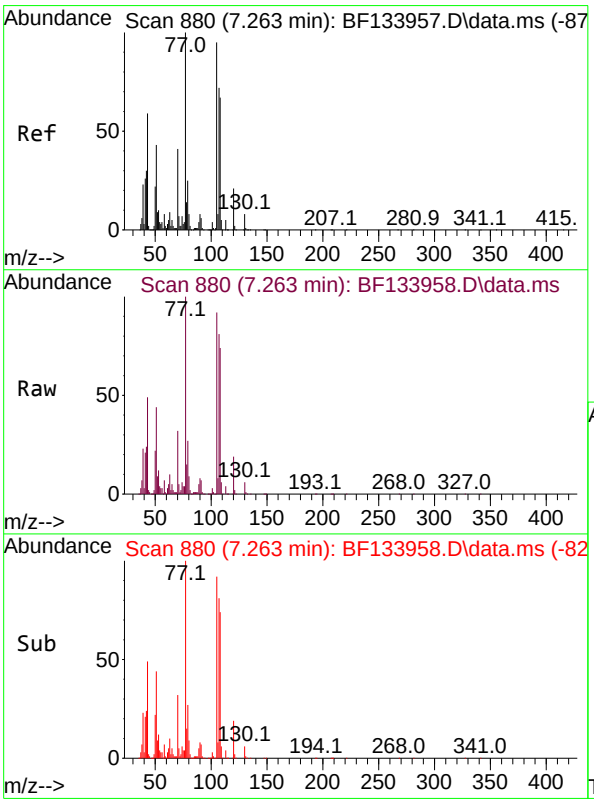
Ion	Ratio	Lower	Upper
70	100		
42	71.8	54.7	82.1
101	9.4	7.7	11.5
130	18.3	16.4	24.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

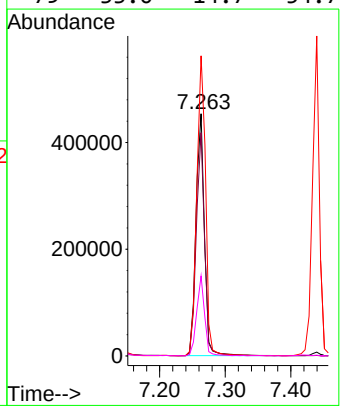
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

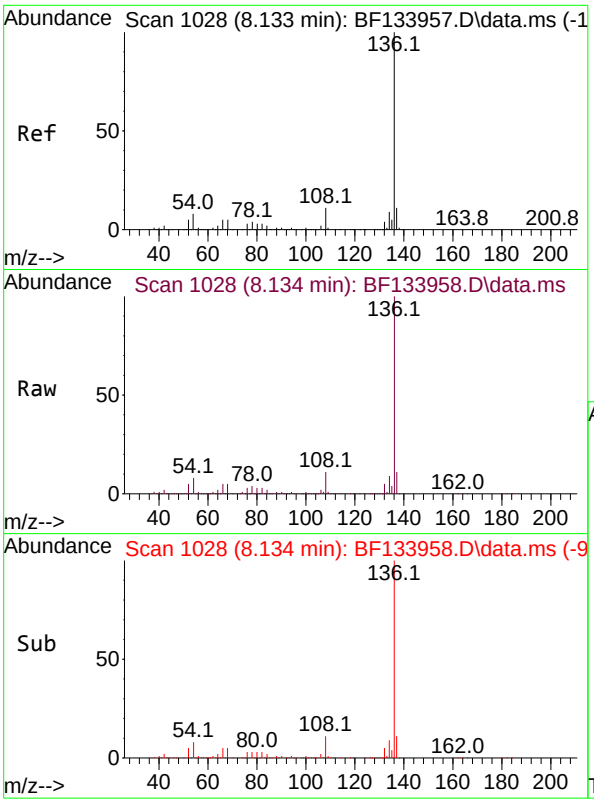


#20
3+4-Methylphenols
Concen: 44.617 ng
RT: 7.263 min Scan# 880
Delta R.T. 0.000 min
Lab File: BF133958.D
Acq: 26 Jun 2023 18:12

Tgt Ion:107 Resp: 407499

Ion	Ratio	Lower	Upper
107	100		
108	92.2	73.2	113.2
77	123.9	118.3	158.3
79	33.0	14.7	54.7

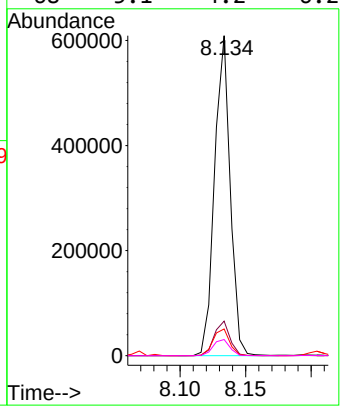




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.134 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF133958.D
Acq: 26 Jun 2023 18:12

Tgt Ion:136 Resp: 50420

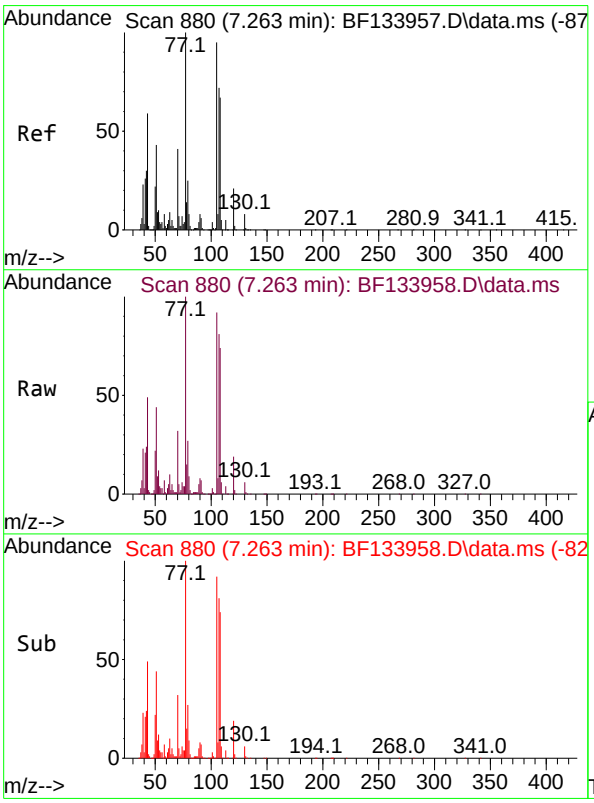
Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.6	12.8
54	8.3	6.5	9.7
68	5.1	4.2	6.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

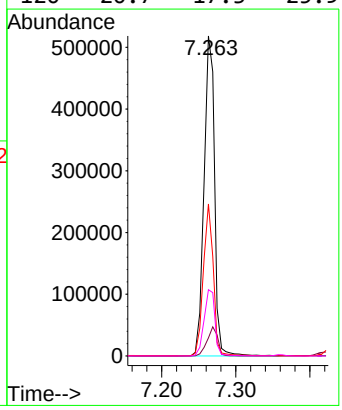
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

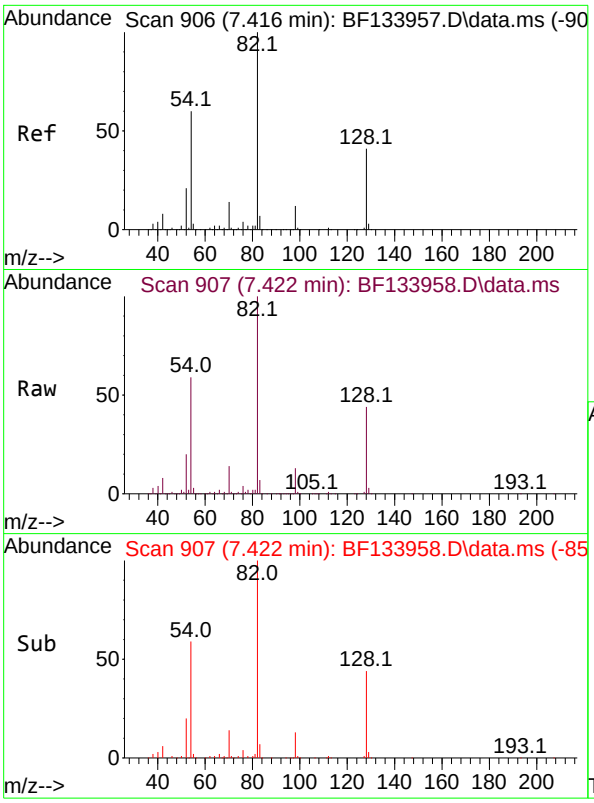


#22
Acetophenone
Concen: 44.803 ng
RT: 7.263 min Scan# 880
Delta R.T. 0.000 min
Lab File: BF133958.D
Acq: 26 Jun 2023 18:12

Tgt Ion:105 Resp: 513744

Ion	Ratio	Lower	Upper
105	100		
71	5.7	5.5	8.3
51	47.5	36.5	54.7
120	20.7	17.3	25.9





#23
Nitrobenzene-d5
Concen: 93.602 ng
RT: 7.422 min Scan# 9
Delta R.T. 0.006 min
Lab File: BF133958.D
Acq: 26 Jun 2023 18:12

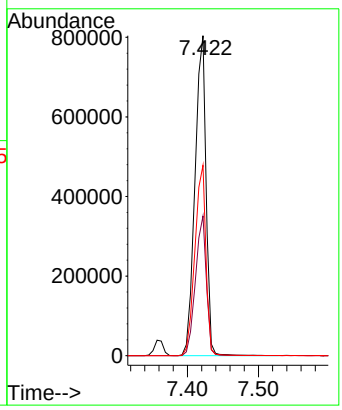
Tgt Ion: 82 Resp: 87550

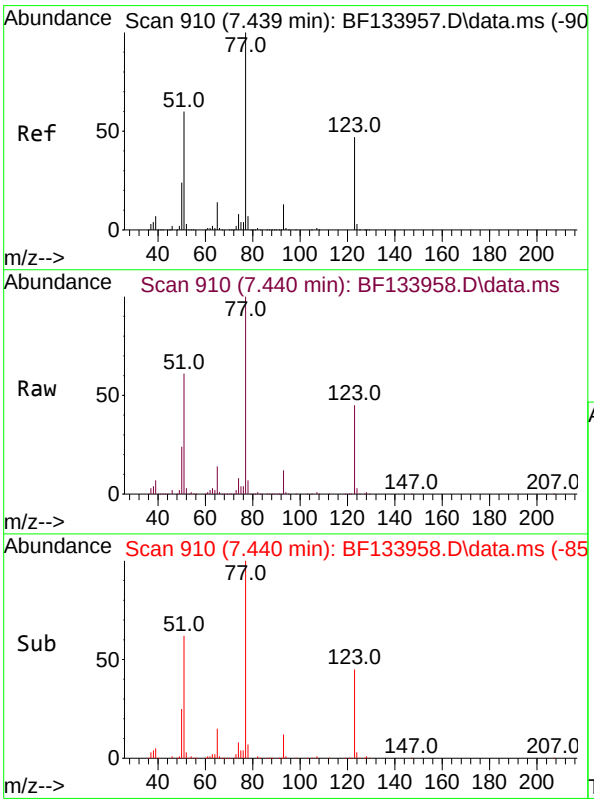
Ion	Ratio	Lower	Upper
82	100		
128	43.6	32.5	48.7
54	59.5	48.2	72.2

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

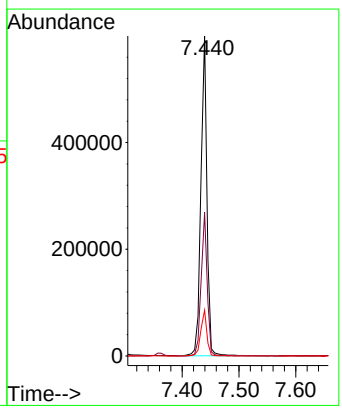


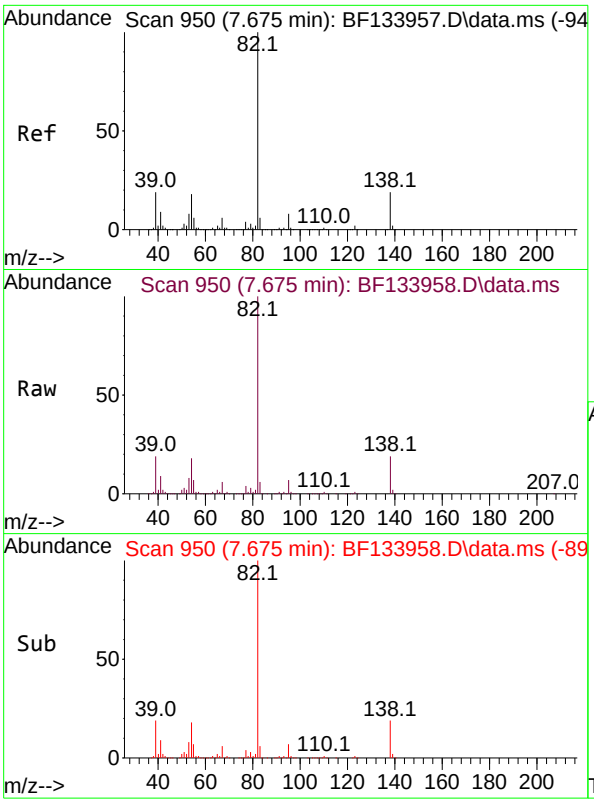


#24
Nitrobenzene
Concen: 46.927 ng
RT: 7.440 min Scan# 910
Delta R.T. 0.000 min
Lab File: BF133958.D
Acq: 26 Jun 2023 18:12

Tgt Ion: 77 Resp: 443552

Ion	Ratio	Lower	Upper
77	100		
123	44.9	37.8	56.6
65	14.3	11.3	16.9

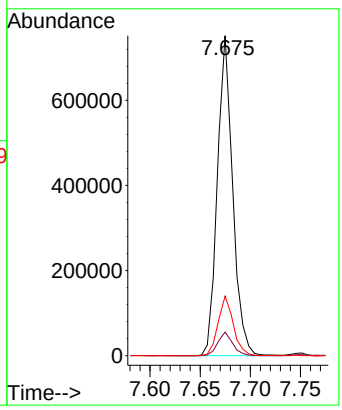




#25
Isophorone
Concen: 46.959 ng
RT: 7.675 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF133958.D
Acq: 26 Jun 2023 18:12

Tgt Ion: 82 Resp: 79826

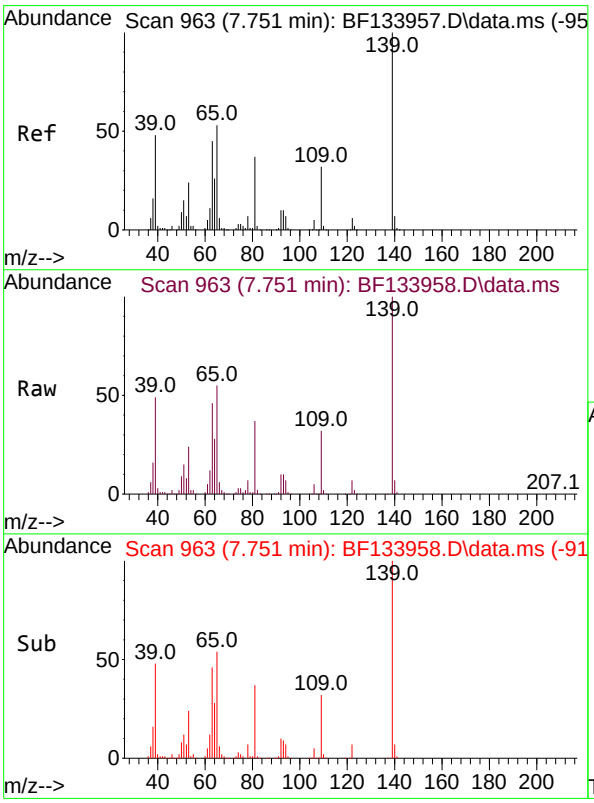
Ion	Ratio	Lower	Upper
82	100		
95	7.4	6.1	9.1
138	18.6	15.2	22.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

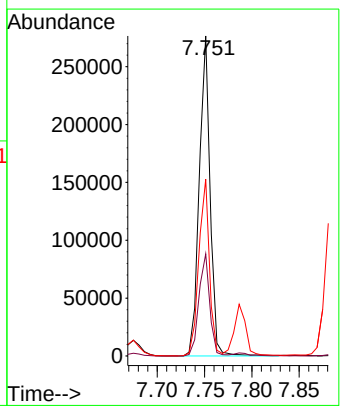
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

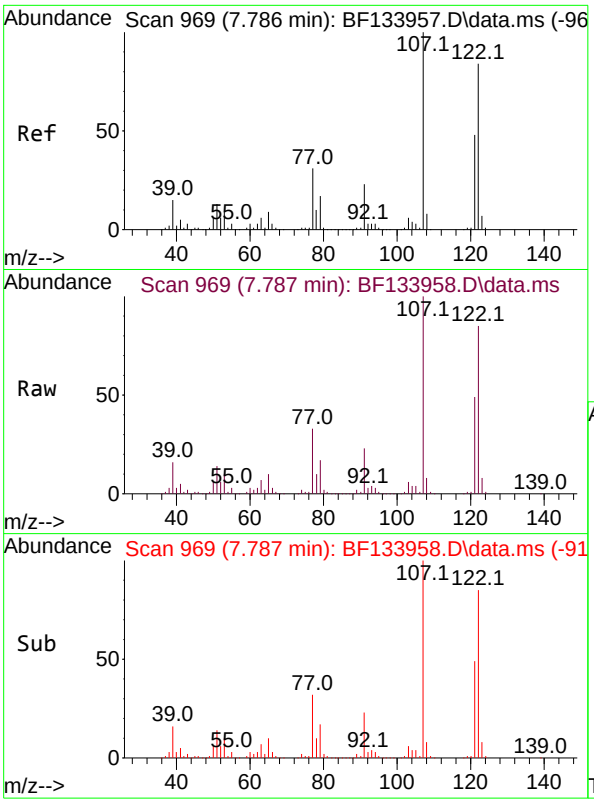


#26
2-Nitrophenol
Concen: 48.915 ng
RT: 7.751 min Scan# 963
Delta R.T. 0.000 min
Lab File: BF133958.D
Acq: 26 Jun 2023 18:12

Tgt Ion:139 Resp: 221791

Ion	Ratio	Lower	Upper
139	100		
109	31.9	25.8	38.8
65	55.3	42.4	63.6

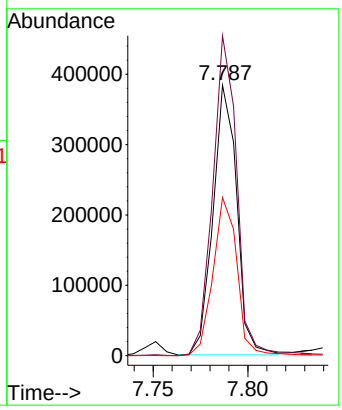




#27
2,4-Dimethylphenol
Concen: 46.541 ng
RT: 7.787 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF133958.D
Acq: 26 Jun 2023 18:12

Tgt Ion:122 Resp: 33404

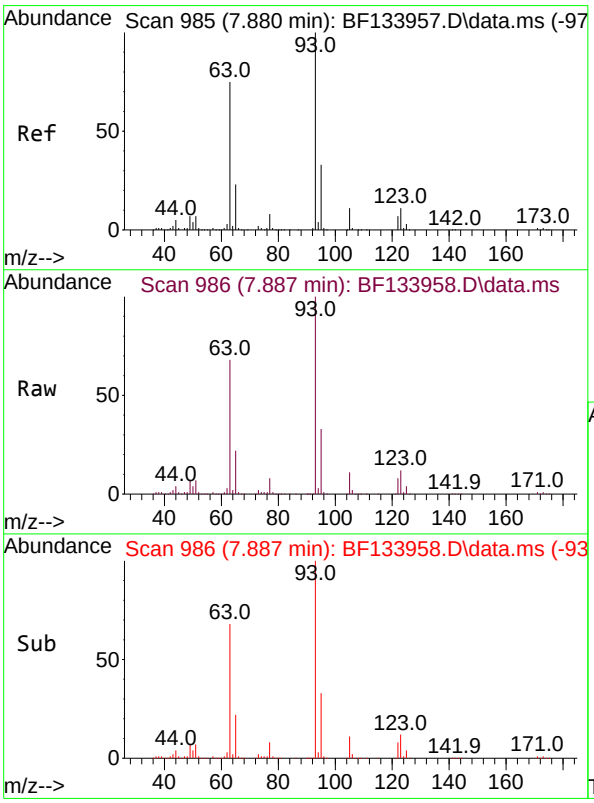
Ion	Ratio	Lower	Upper
122	100		
107	118.3	95.5	143.3
121	58.5	45.5	68.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

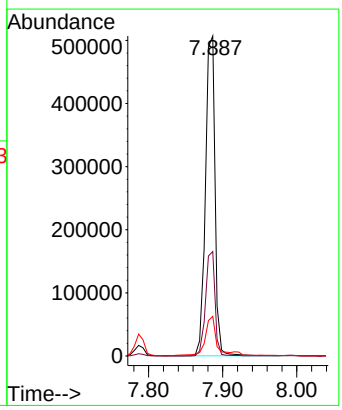
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

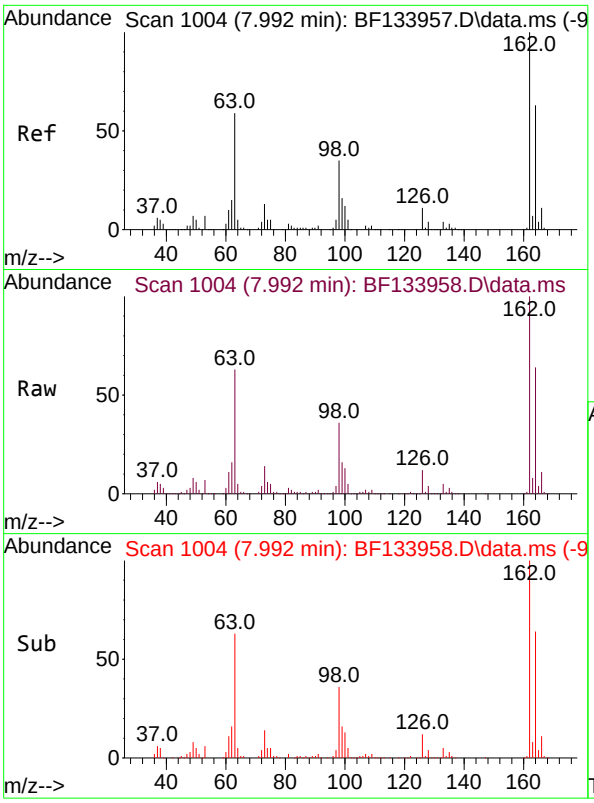


#28
bis(2-Chloroethoxy)methane
Concen: 46.484 ng
RT: 7.887 min Scan# 986
Delta R.T. 0.006 min
Lab File: BF133958.D
Acq: 26 Jun 2023 18:12

Tgt Ion: 93 Resp: 457550

Ion	Ratio	Lower	Upper
93	100		
95	32.6	26.5	39.7
123	12.4	9.1	13.7

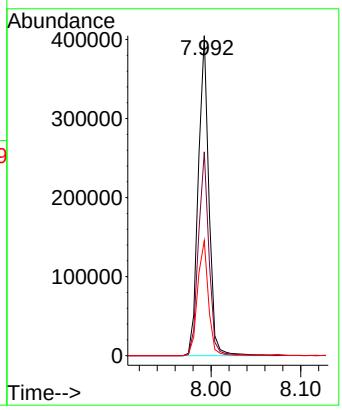




#29
2,4-Dichlorophenol
Concen: 46.662 ng
RT: 7.992 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF133958.D
Acq: 26 Jun 2023 18:12

Tgt Ion:162 Resp: 33210

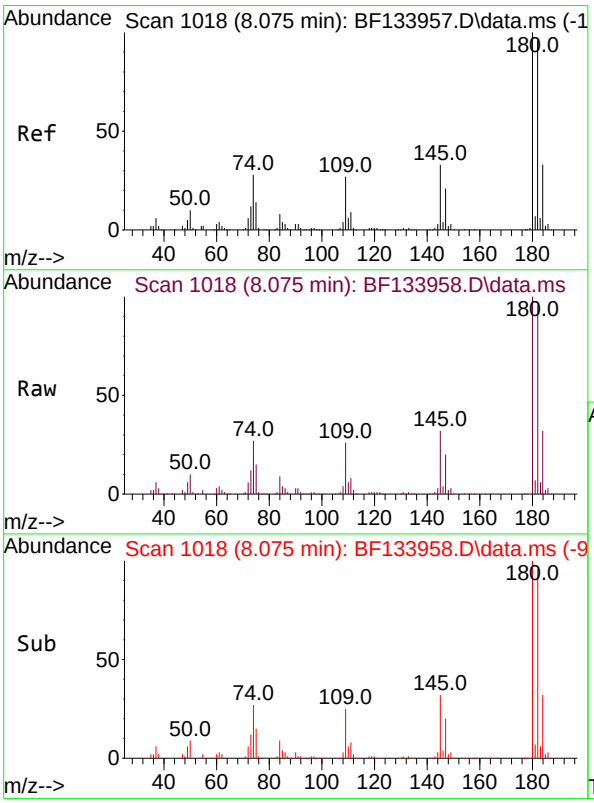
Ion	Ratio	Lower	Upper
162	100		
164	63.7	43.2	83.2
98	35.9	14.9	54.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

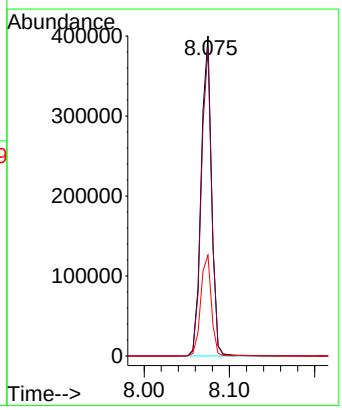
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

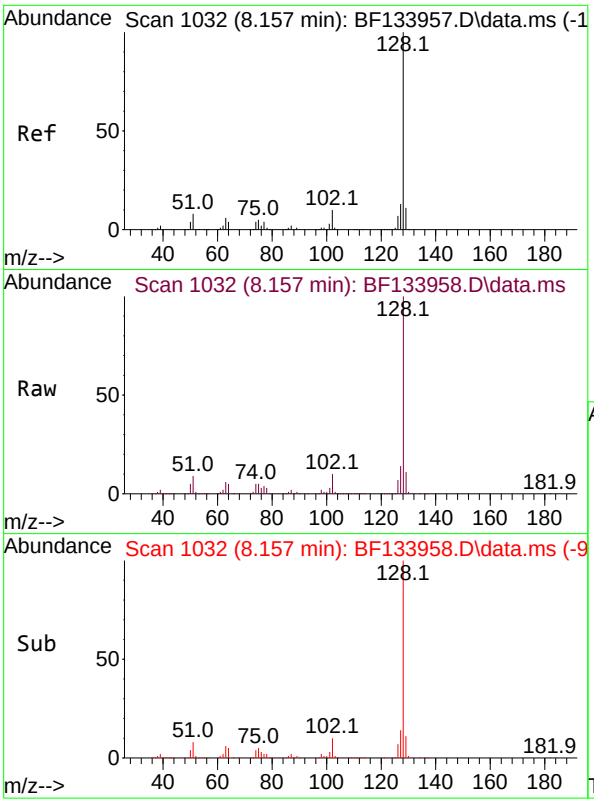


#30
1,2,4-Trichlorobenzene
Concen: 45.955 ng
RT: 8.075 min Scan# 1018
Delta R.T. 0.000 min
Lab File: BF133958.D
Acq: 26 Jun 2023 18:12

Tgt Ion:180 Resp: 337483

Ion	Ratio	Lower	Upper
180	100		
182	96.0	77.1	115.7
145	31.5	26.0	39.0

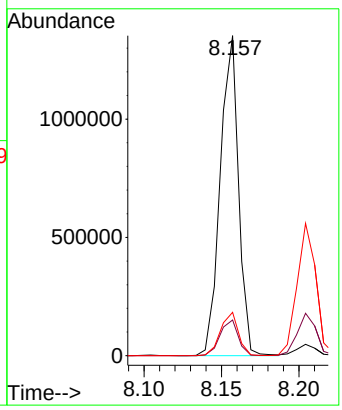




#31
Naphthalene
Concen: 45.583 ng
RT: 8.157 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF133958.D
Acq: 26 Jun 2023 18:12

Tgt Ion:128 Resp: 111015

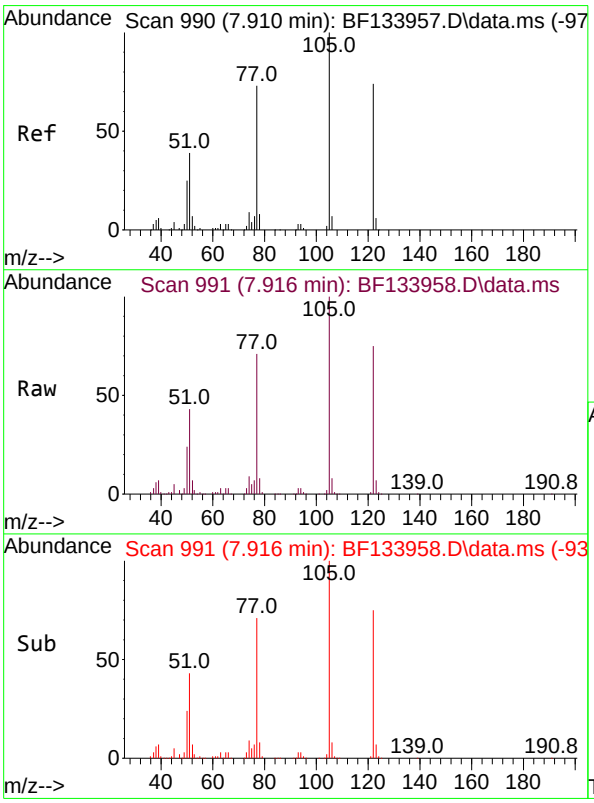
Ion	Ratio	Lower	Upper
128	100		
129	11.2	8.7	13.1
127	13.5	10.6	15.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

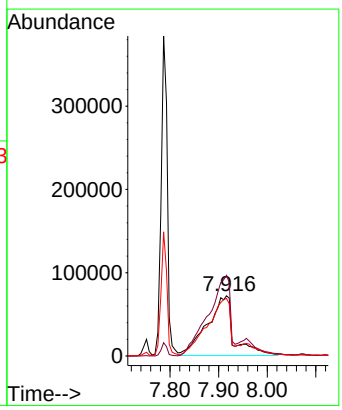
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

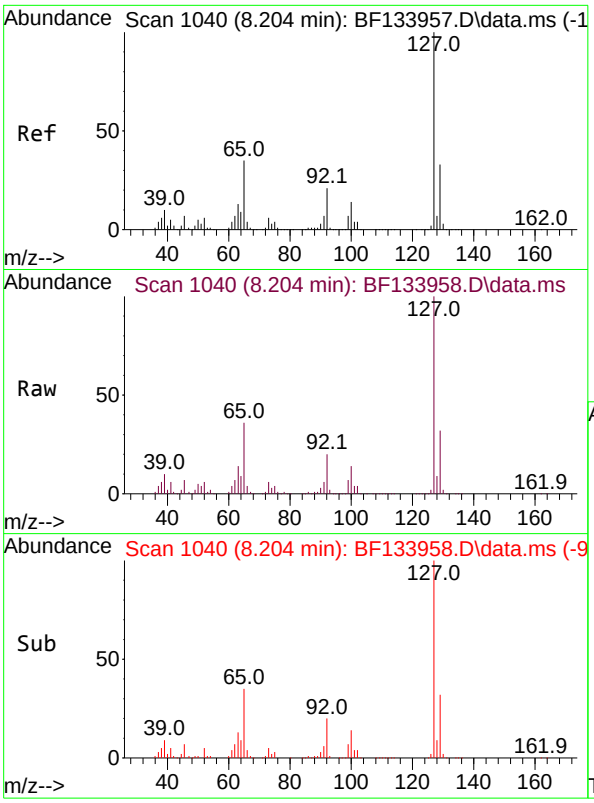


#32
Benzoic acid
Concen: 52.277 ng m
RT: 7.916 min Scan# 991
Delta R.T. 0.006 min
Lab File: BF133958.D
Acq: 26 Jun 2023 18:12

Tgt Ion:122 Resp: 275719

Ion	Ratio	Lower	Upper
122	100		
105	133.9	109.7	149.7
77	95.4	76.0	116.0

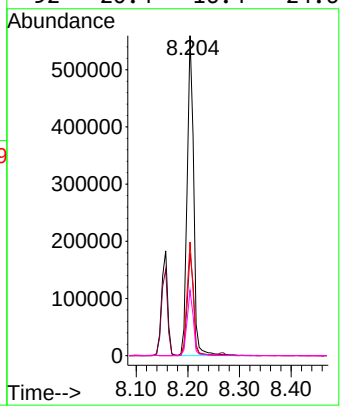




#33
4-Chloroaniline
Concen: 47.064 ng
RT: 8.204 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF133958.D
Acq: 26 Jun 2023 18:12

Tgt Ion:127 Resp: 49030

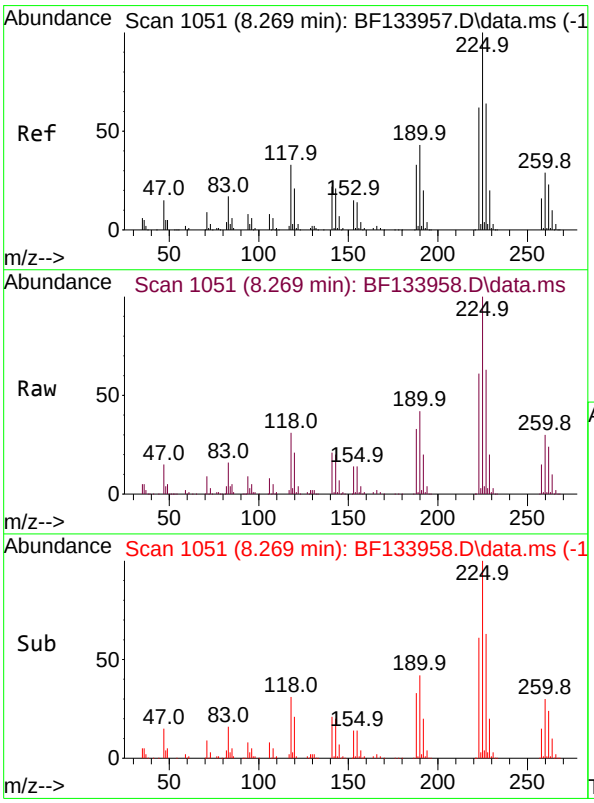
Ion	Ratio	Lower	Upper
127	100		
129	32.0	26.4	39.6
65	35.5	27.8	41.8
92	20.4	16.4	24.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

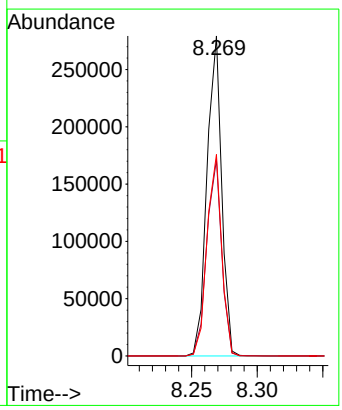
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

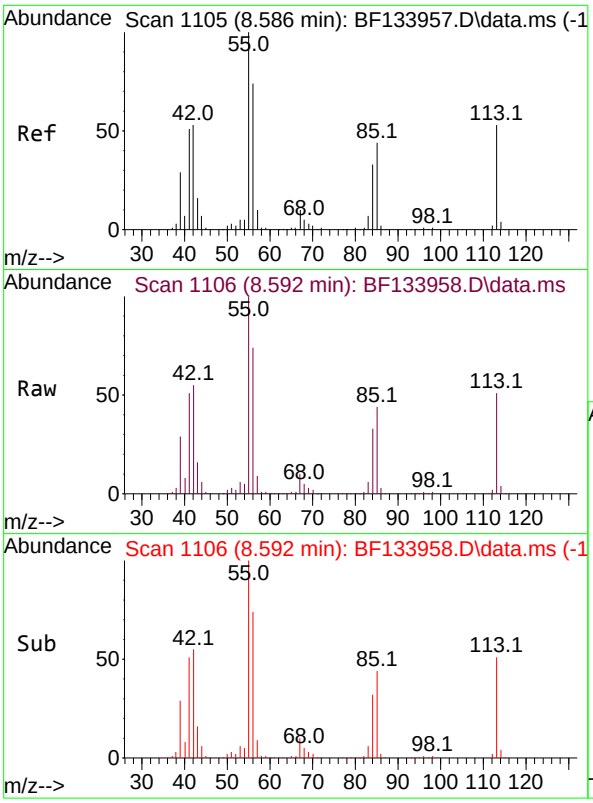


#34
Hexachlorobutadiene
Concen: 46.897 ng
RT: 8.269 min Scan# 1051
Delta R.T. 0.000 min
Lab File: BF133958.D
Acq: 26 Jun 2023 18:12

Tgt Ion:225 Resp: 217251

Ion	Ratio	Lower	Upper
225	100		
223	61.4	49.8	74.8
227	62.9	51.0	76.4

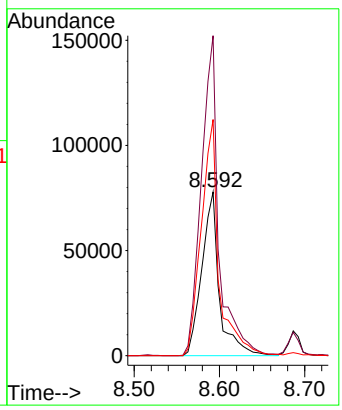




#35
Caprolactam
Concen: 47.545 ng
RT: 8.592 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF133958.D
Acq: 26 Jun 2023 18:12

Tgt Ion:113 Resp: 11141

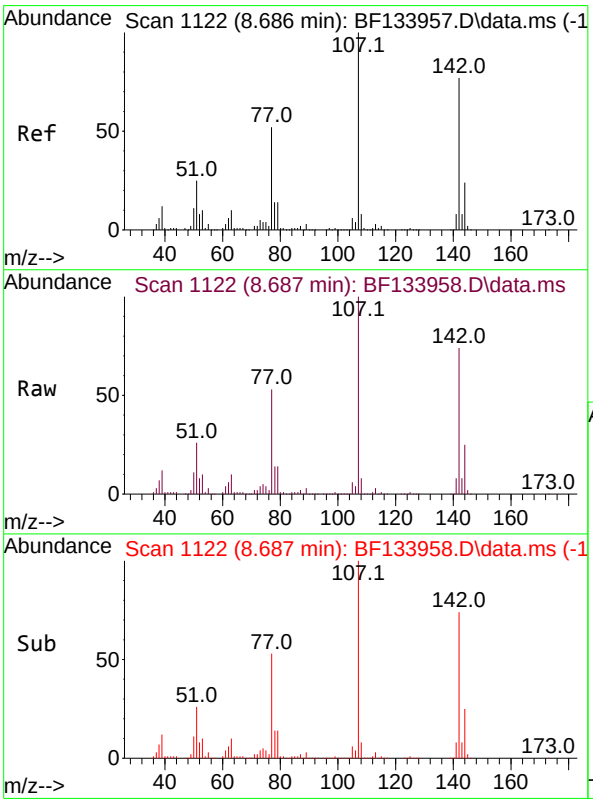
Ion	Ratio	Lower	Upper
113	100		
55	195.5	170.2	210.2
56	144.3	121.4	161.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

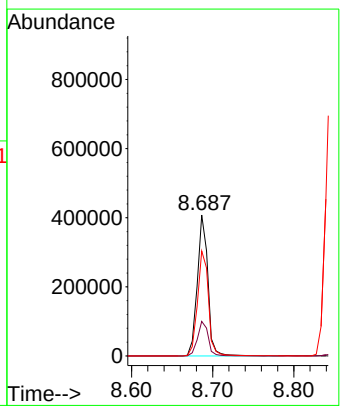
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

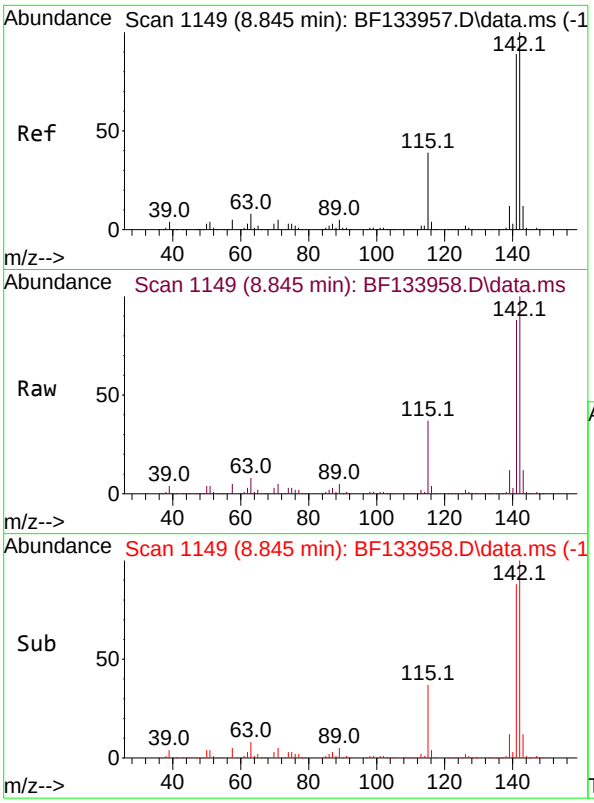


#36
4-Chloro-3-methylphenol
Concen: 46.276 ng
RT: 8.687 min Scan# 1122
Delta R.T. 0.000 min
Lab File: BF133958.D
Acq: 26 Jun 2023 18:12

Tgt Ion:107 Resp: 369996

Ion	Ratio	Lower	Upper
107	100		
144	24.6	19.6	29.4
142	74.5	61.4	92.2

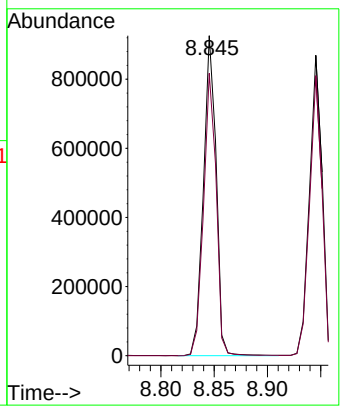




#37
2-Methylnaphthalene
Concen: 44.585 ng
RT: 8.845 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF133958.D
Acq: 26 Jun 2023 18:12

Tgt Ion:142 Resp: 76786

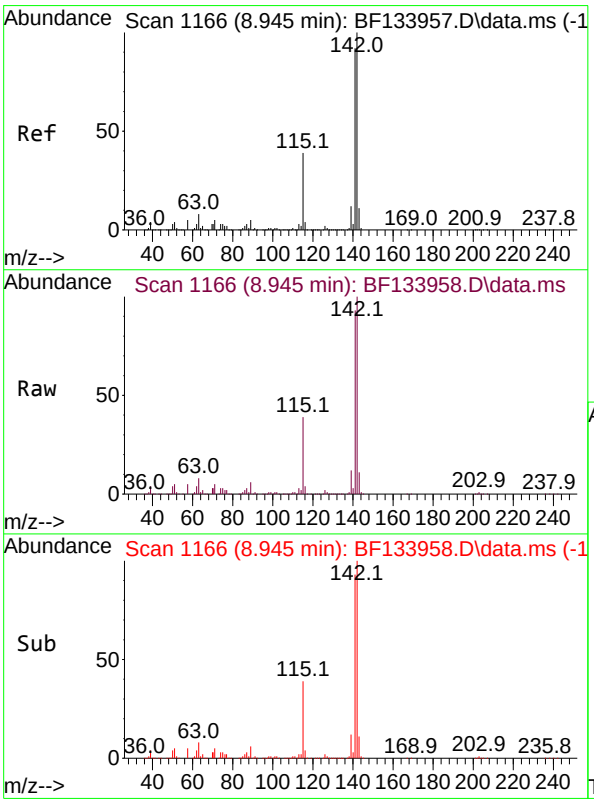
Ion	Ratio	Lower	Upper
142	100		
141	88.2	71.0	106.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

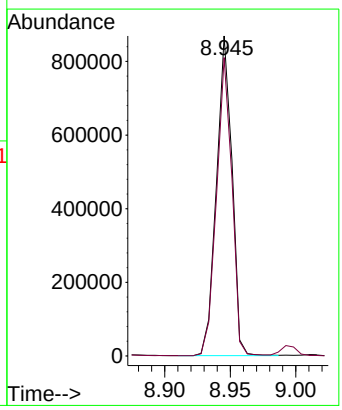
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

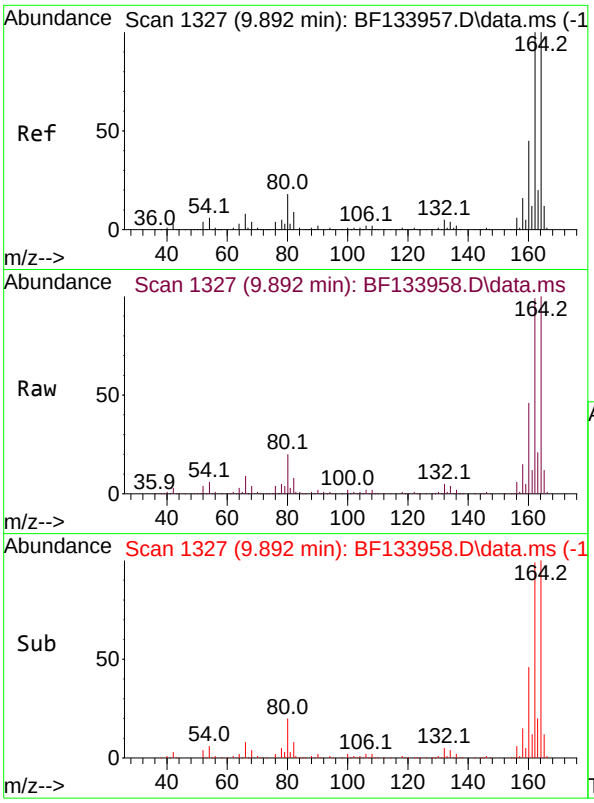


#38
1-Methylnaphthalene
Concen: 44.590 ng
RT: 8.945 min Scan# 1166
Delta R.T. 0.000 min
Lab File: BF133958.D
Acq: 26 Jun 2023 18:12

Tgt Ion:142 Resp: 713927

Ion	Ratio	Lower	Upper
142	100		
141	93.2	73.5	110.3

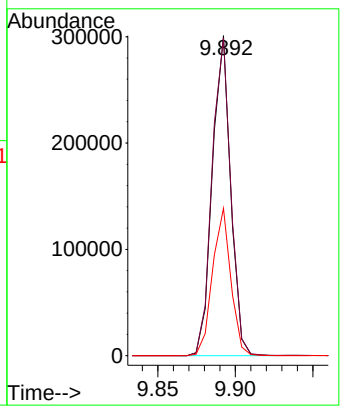




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.892 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF133958.D
Acq: 26 Jun 2023 18:12

Tgt Ion:164 Resp: 24670

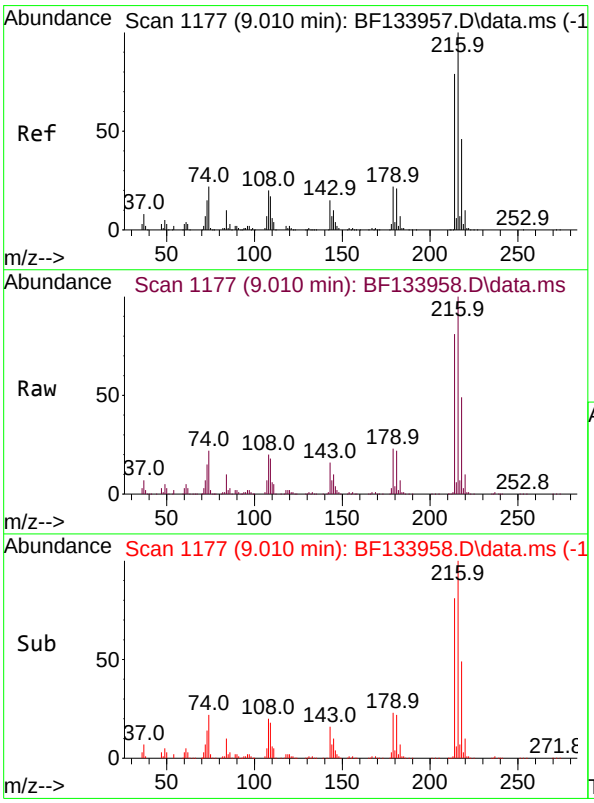
Ion	Ratio	Lower	Upper
164	100		
162	99.3	80.0	120.0
160	46.1	35.9	53.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

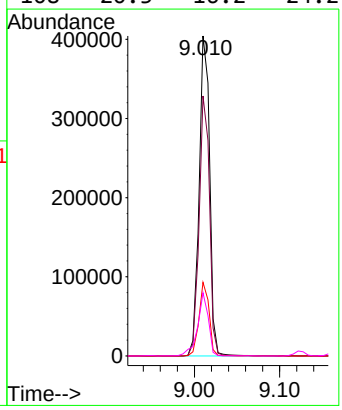
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

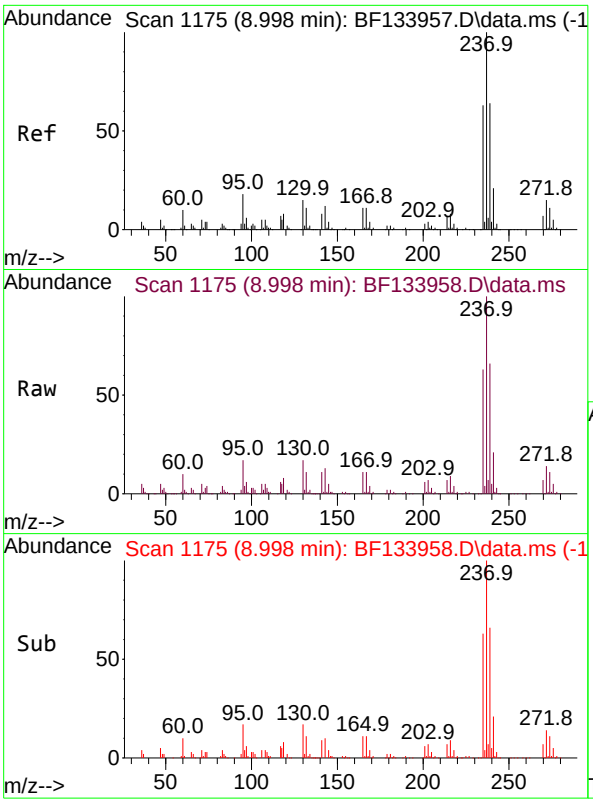


#40
1,2,4,5-Tetrachlorobenzene
Concen: 47.444 ng
RT: 9.010 min Scan# 1177
Delta R.T. 0.000 min
Lab File: BF133958.D
Acq: 26 Jun 2023 18:12

Tgt Ion:216 Resp: 346767

Ion	Ratio	Lower	Upper
216	100		
214	80.3	64.1	96.1
179	22.1	17.3	25.9
108	20.3	16.2	24.2





#41
Hexachlorocyclopentadiene
Concen: 52.759 ng
RT: 8.998 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF133958.D
Acq: 26 Jun 2023 18:12

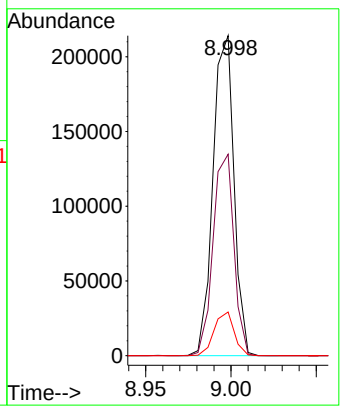
Tgt Ion:237 Resp: 18294

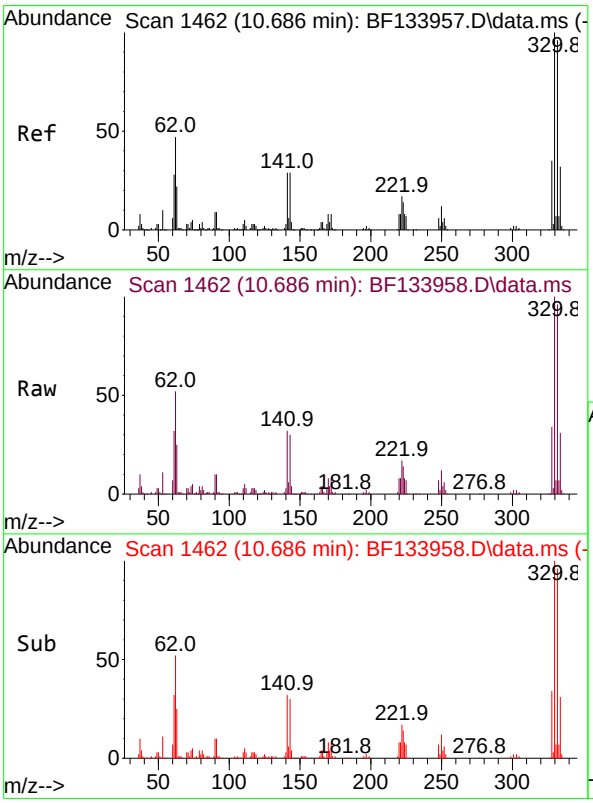
Ion	Ratio	Lower	Upper
237	100		
235	62.9	42.8	82.8
272	13.6	0.0	34.6

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

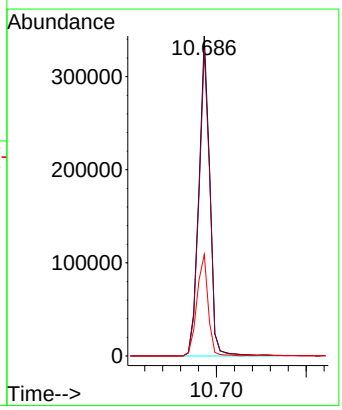


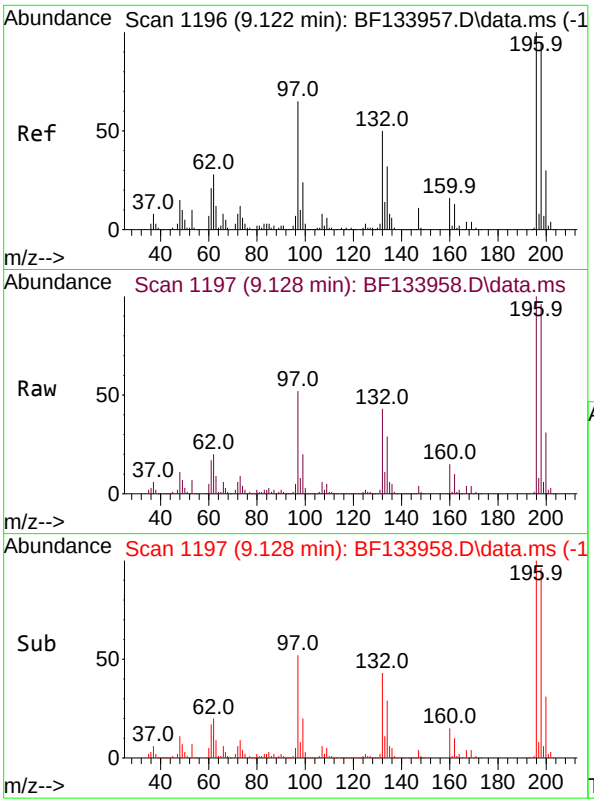


#42
2,4,6-Tribromophenol
Concen: 93.527 ng
RT: 10.686 min Scan# 1462
Delta R.T. 0.000 min
Lab File: BF133958.D
Acq: 26 Jun 2023 18:12

Tgt Ion:330 Resp: 289295

Ion	Ratio	Lower	Upper
330	100		
332	96.6	77.0	115.6
141	32.4	26.3	39.5

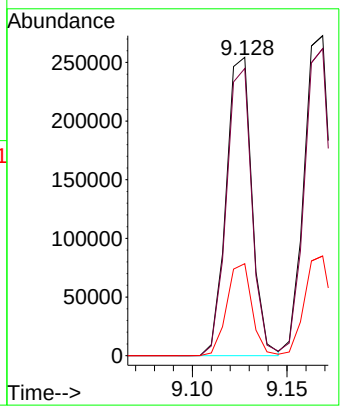




#43
2,4,6-Trichlorophenol
Concen: 48.412 ng
RT: 9.128 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF133958.D
Acq: 26 Jun 2023 18:12

Tgt Ion:196 Resp: 24087

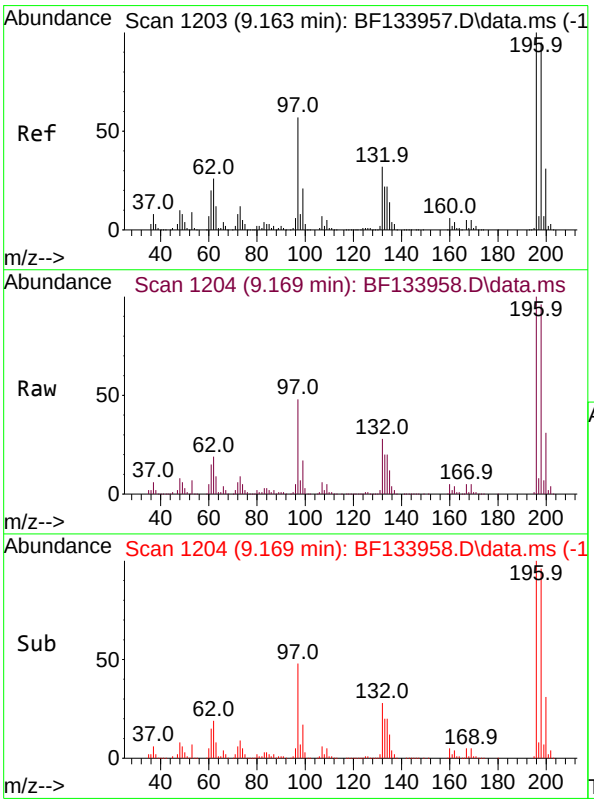
Ion	Ratio	Lower	Upper
196	100		
198	96.3	75.6	113.4
200	30.8	24.4	36.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

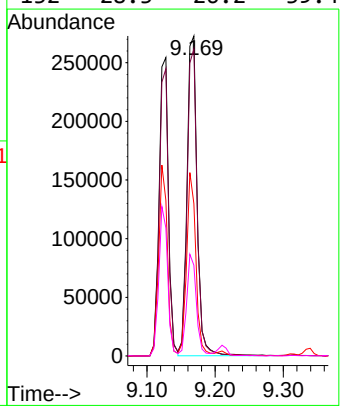
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

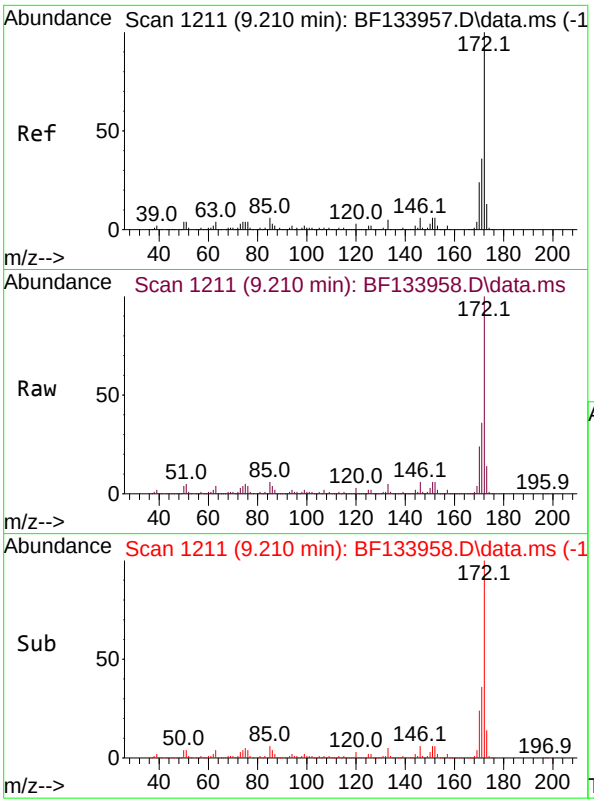


#44
2,4,5-Trichlorophenol
Concen: 47.833 ng
RT: 9.169 min Scan# 1204
Delta R.T. 0.006 min
Lab File: BF133958.D
Acq: 26 Jun 2023 18:12

Tgt Ion:196 Resp: 279946

Ion	Ratio	Lower	Upper
196	100		
198	95.9	75.7	113.5
97	47.6	45.8	68.6
132	28.3	26.2	39.4

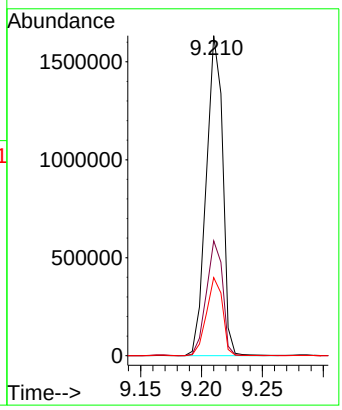




#45
2-Fluorobiphenyl
Concen: 90.341 ng
RT: 9.210 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF133958.D
Acq: 26 Jun 2023 18:12

Tgt Ion:172 Resp: 153295

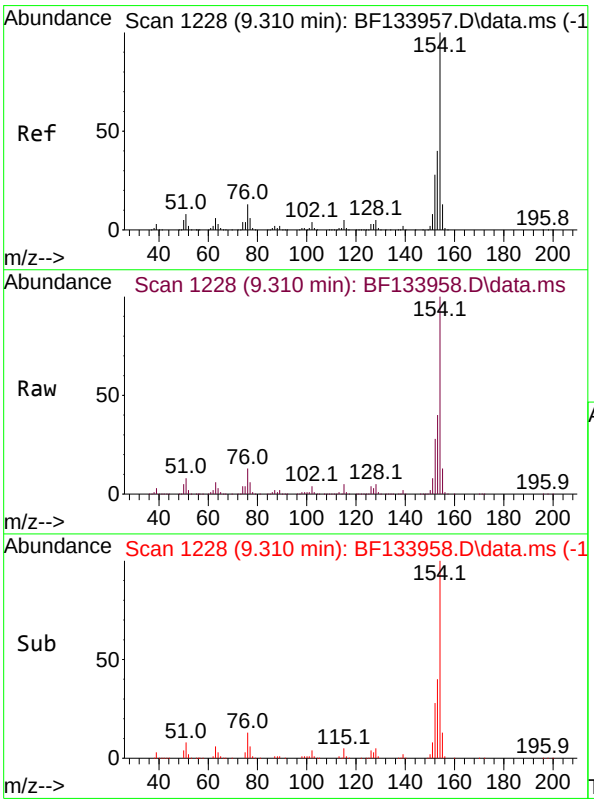
Ion	Ratio	Lower	Upper
172	100		
171	35.9	28.6	43.0
170	24.4	19.4	29.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

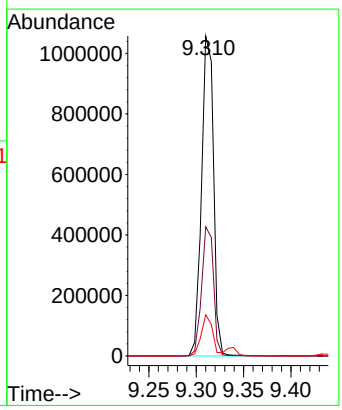
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

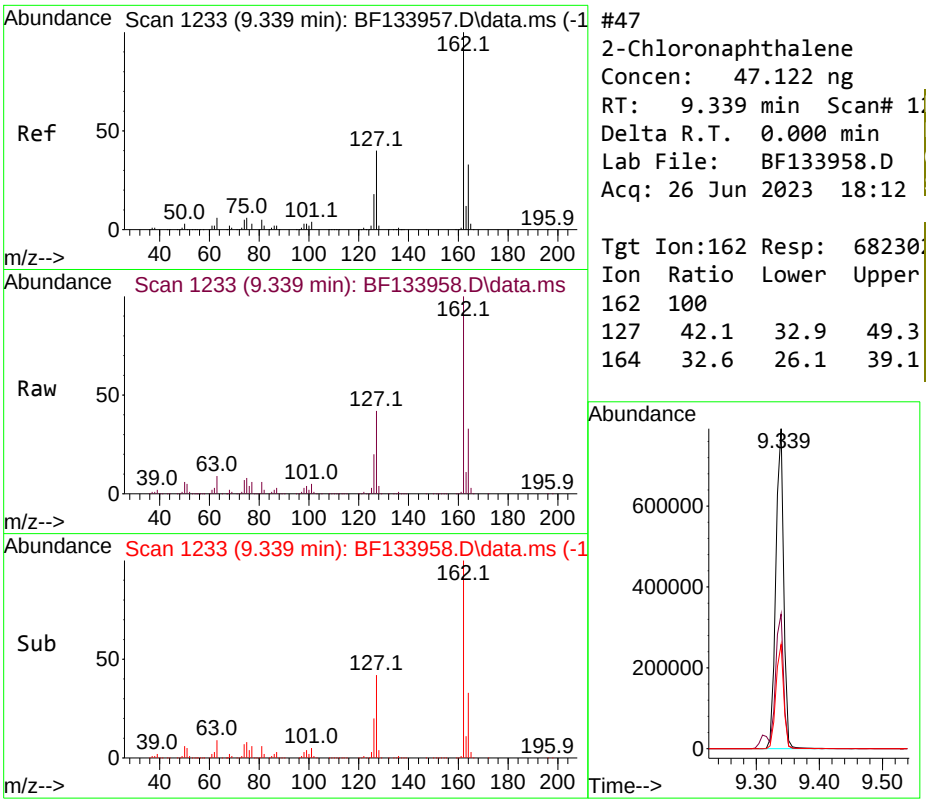


#46
1,1'-Biphenyl
Concen: 46.996 ng
RT: 9.310 min Scan# 1228
Delta R.T. 0.000 min
Lab File: BF133958.D
Acq: 26 Jun 2023 18:12

Tgt Ion:154 Resp: 930032

Ion	Ratio	Lower	Upper
154	100		
153	40.4	19.8	59.8
76	12.8	0.0	32.9





#47
2-Chloronaphthalene
Concen: 47.122 ng
RT: 9.339 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF133958.D
Acq: 26 Jun 2023 18:12

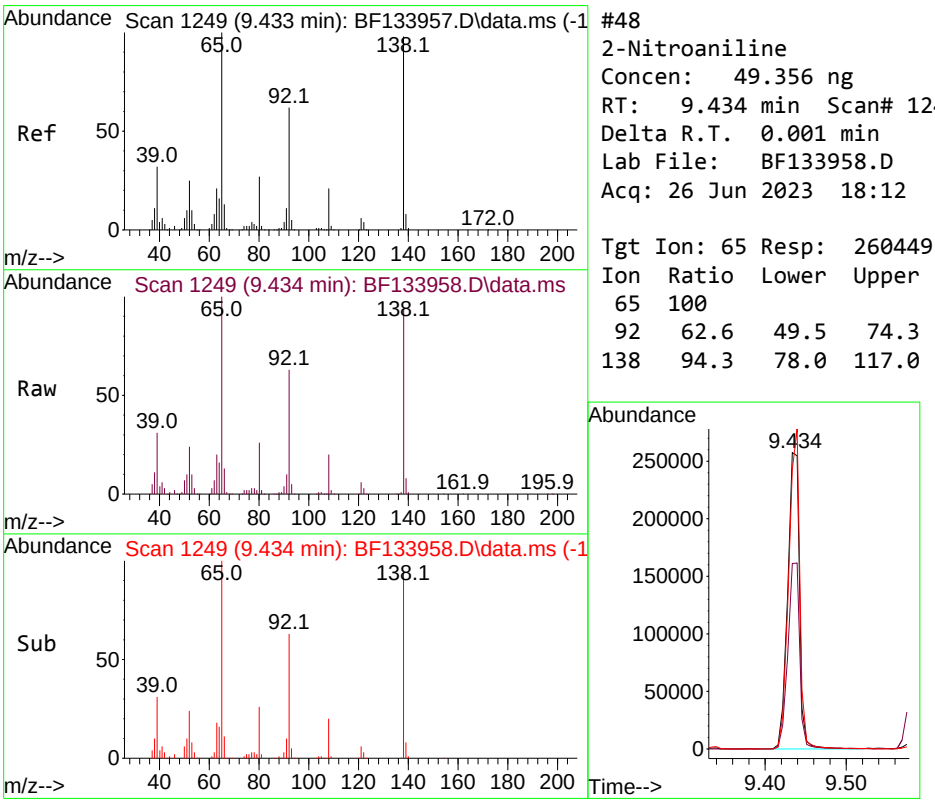
Tgt Ion:162 Resp: 68230

Ion	Ratio	Lower	Upper
162	100		
127	42.1	32.9	49.3
164	32.6	26.1	39.1

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

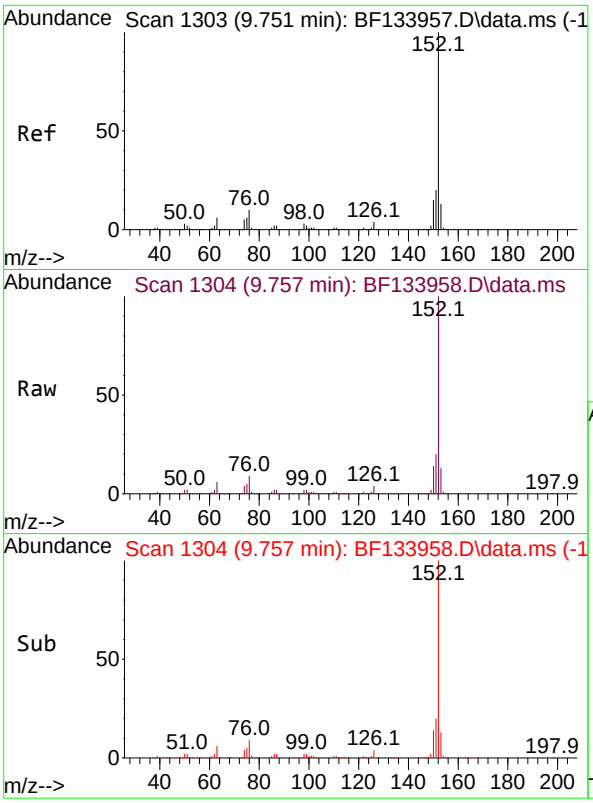
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023



#48
2-Nitroaniline
Concen: 49.356 ng
RT: 9.434 min Scan# 1249
Delta R.T. 0.001 min
Lab File: BF133958.D
Acq: 26 Jun 2023 18:12

Tgt Ion: 65 Resp: 260449

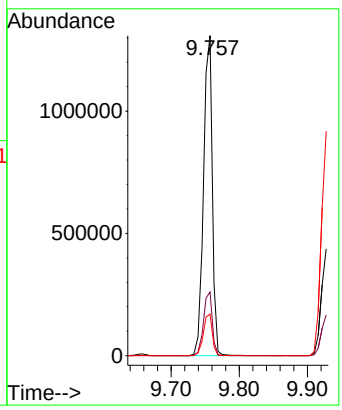
Ion	Ratio	Lower	Upper
65	100		
92	62.6	49.5	74.3
138	94.3	78.0	117.0



#49
Acenaphthylene
Concen: 47.397 ng
RT: 9.757 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF133958.D
Acq: 26 Jun 2023 18:12

Tgt Ion:152 Resp: 117233

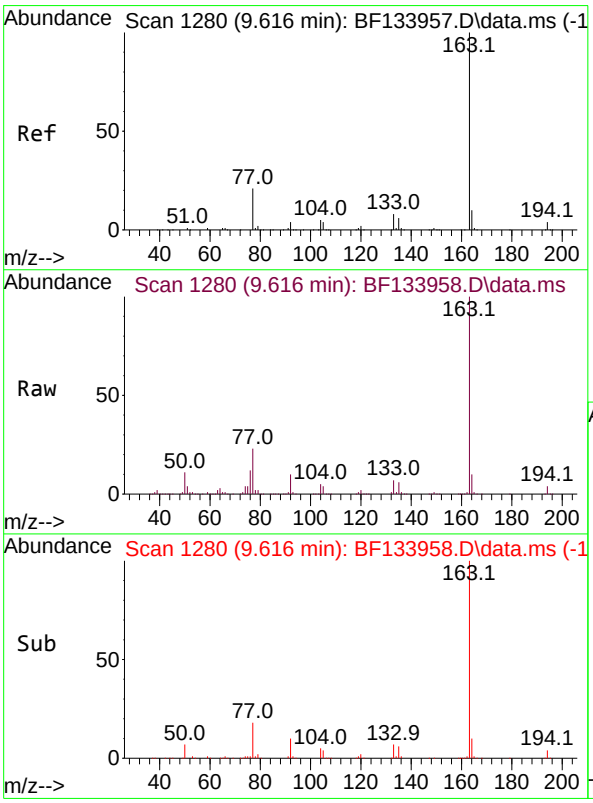
Ion	Ratio	Lower	Upper
152	100		
151	19.9	16.2	24.2
153	13.0	10.8	16.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

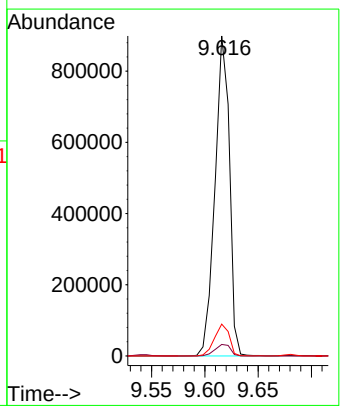
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

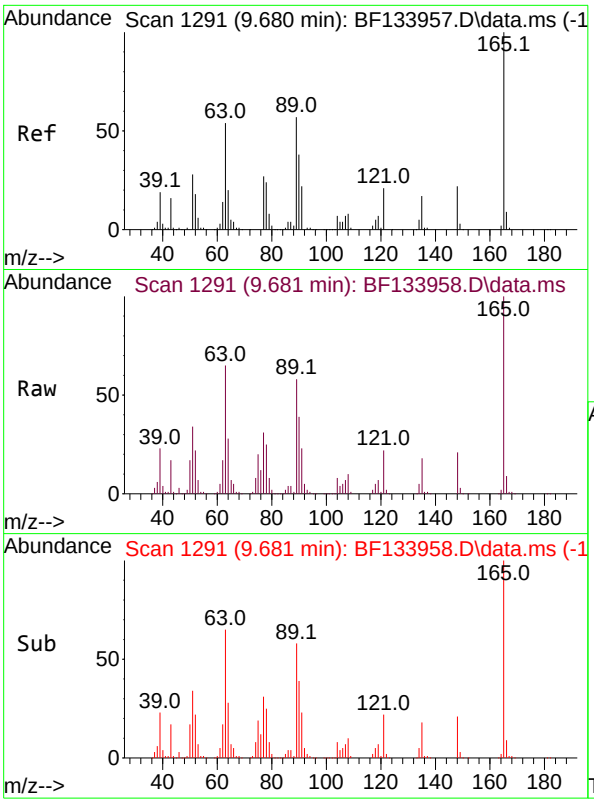


#50
Dimethylphthalate
Concen: 47.322 ng
RT: 9.616 min Scan# 1280
Delta R.T. -0.000 min
Lab File: BF133958.D
Acq: 26 Jun 2023 18:12

Tgt Ion:163 Resp: 847450

Ion	Ratio	Lower	Upper
163	100		
194	3.6	3.0	4.6
164	9.9	8.2	12.2

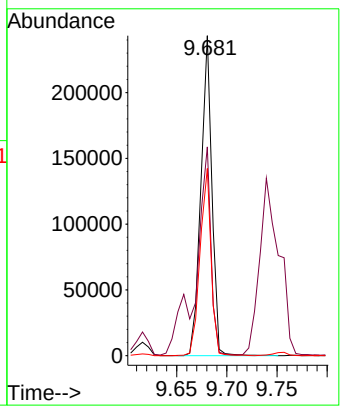




#51
2,6-Dinitrotoluene
Concen: 48.519 ng
RT: 9.681 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF133958.D
Acq: 26 Jun 2023 18:12

Tgt Ion:165 Resp: 18714

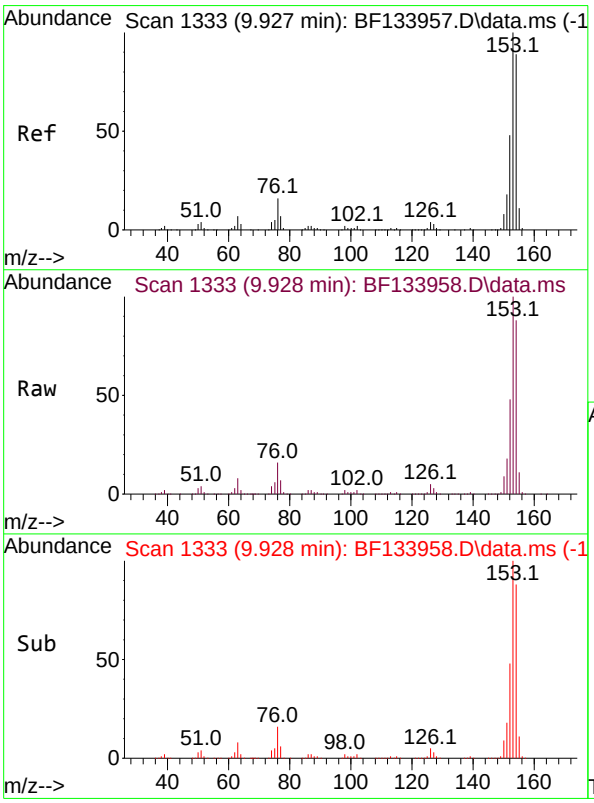
Ion	Ratio	Lower	Upper
165	100		
63	65.3	48.5	72.7
89	58.5	45.5	68.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

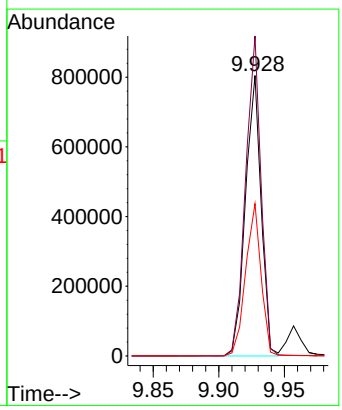
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

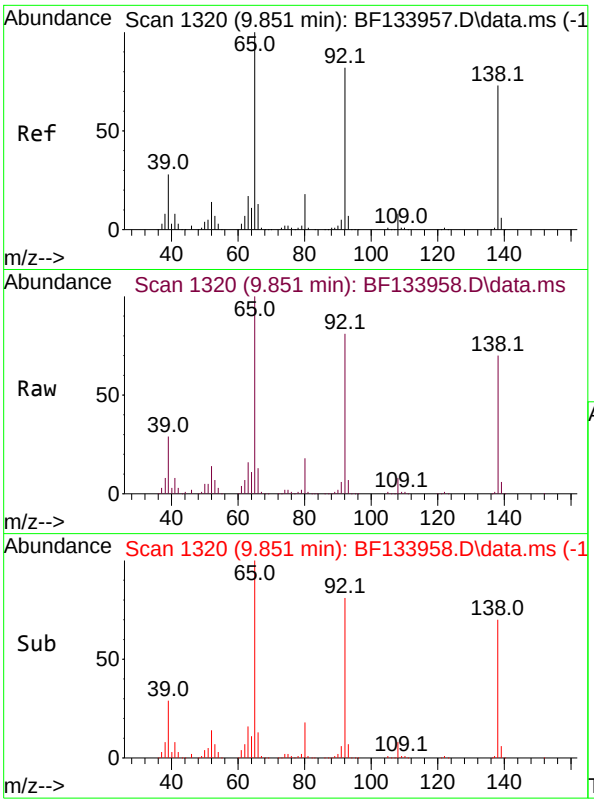


#52
Acenaphthene
Concen: 46.787 ng
RT: 9.928 min Scan# 1333
Delta R.T. 0.001 min
Lab File: BF133958.D
Acq: 26 Jun 2023 18:12

Tgt Ion:154 Resp: 671503

Ion	Ratio	Lower	Upper
154	100		
153	114.1	89.4	134.2
152	54.3	42.8	64.2





#53
3-Nitroaniline
Concen: 47.449 ng
RT: 9.851 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF133958.D
Acq: 26 Jun 2023 18:12

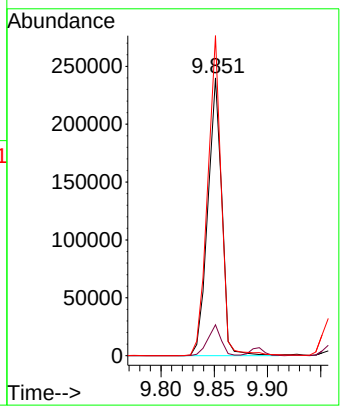
Tgt Ion:138 Resp: 21956

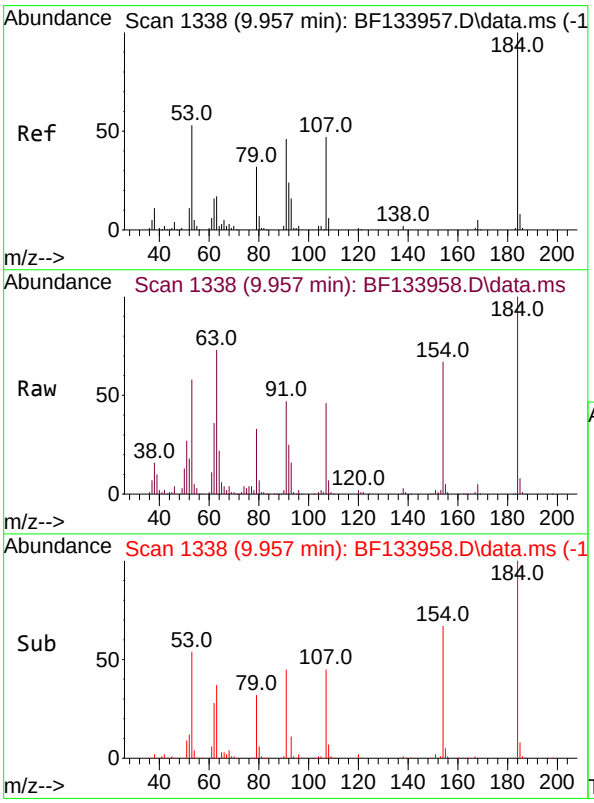
Ion	Ratio	Lower	Upper
138	100		
108	11.1	8.4	12.6
92	115.2	90.1	135.1

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

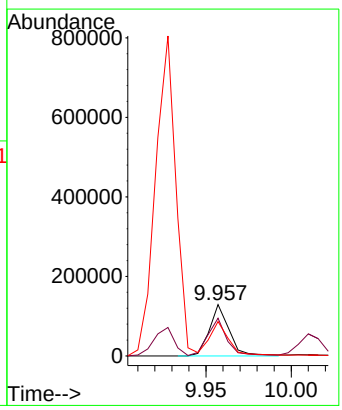


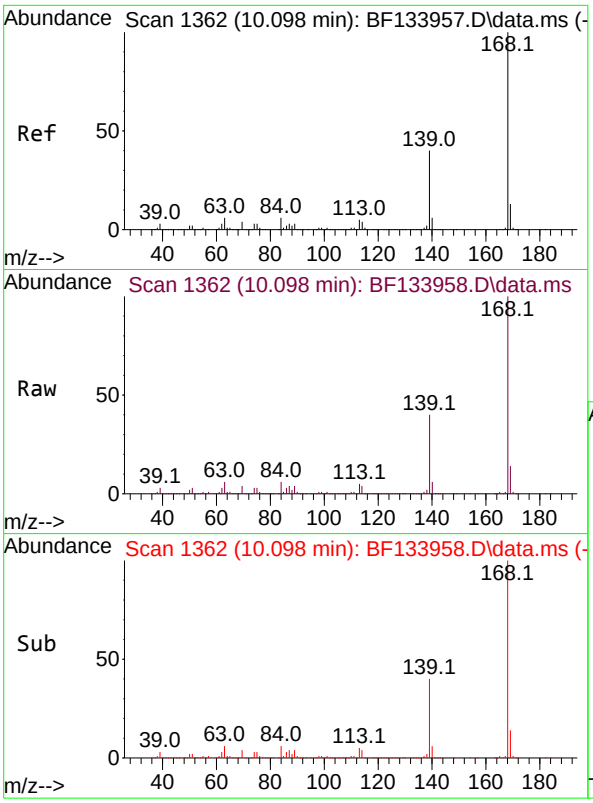


#54
2,4-Dinitrophenol
Concen: 48.398 ng
RT: 9.957 min Scan# 1338
Delta R.T. 0.000 min
Lab File: BF133958.D
Acq: 26 Jun 2023 18:12

Tgt Ion:184 Resp: 104235

Ion	Ratio	Lower	Upper
184	100		
63	73.3	56.9	85.3
154	66.9	55.4	83.0

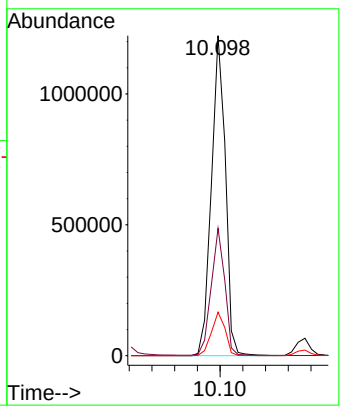




#55
Dibenzofuran
Concen: 46.520 ng
RT: 10.098 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF133958.D
Acq: 26 Jun 2023 18:12

Tgt Ion:168 Resp: 104345

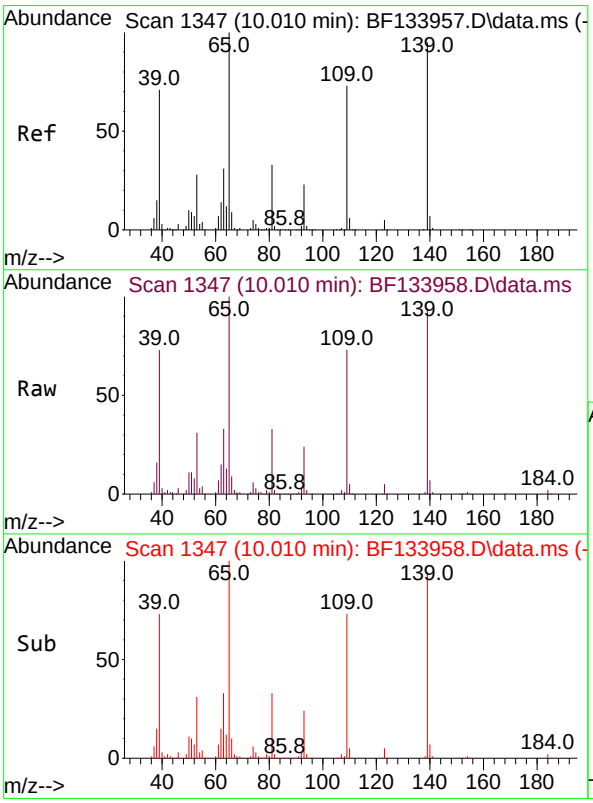
Ion	Ratio	Lower	Upper
168	100		
139	39.8	32.0	48.0
169	13.6	10.6	16.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

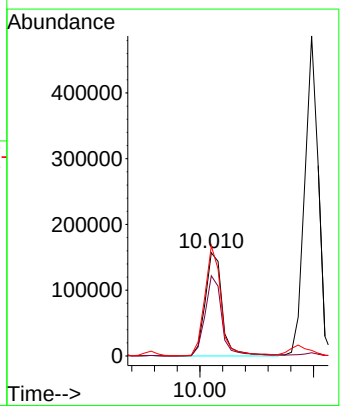
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

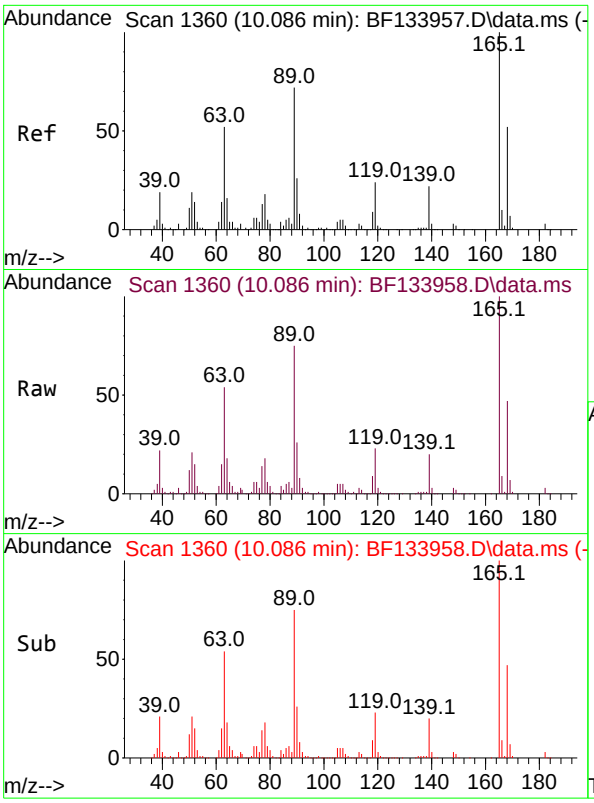


#56
4-Nitrophenol
Concen: 50.450 ng
RT: 10.010 min Scan# 1347
Delta R.T. 0.000 min
Lab File: BF133958.D
Acq: 26 Jun 2023 18:12

Tgt Ion:139 Resp: 163293

Ion	Ratio	Lower	Upper
139	100		
109	77.8	56.8	96.8
65	106.8	86.1	126.1

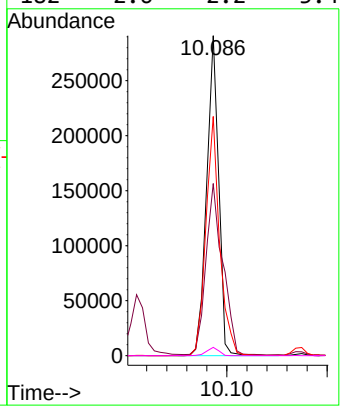




#57
2,4-Dinitrotoluene
Concen: 47.940 ng
RT: 10.086 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF133958.D
Acq: 26 Jun 2023 18:12

Tgt Ion:165 Resp: 24419

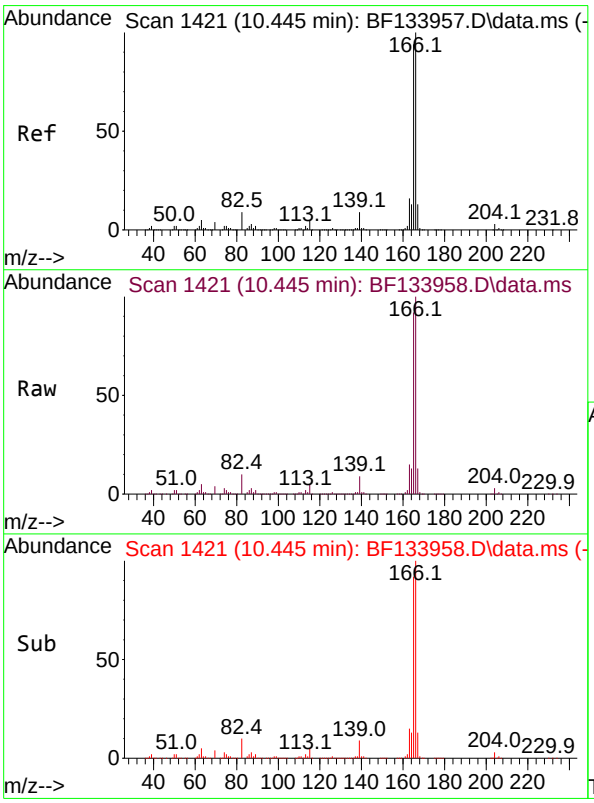
Ion	Ratio	Lower	Upper
165	100		
63	53.8	42.2	63.2
89	74.8	57.4	86.2
182	2.6	2.2	3.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

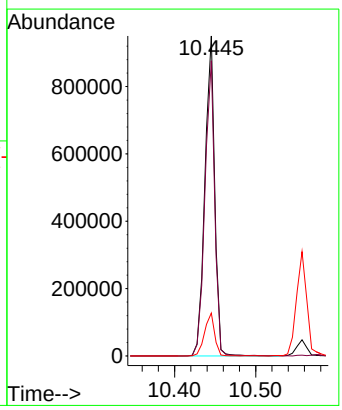
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

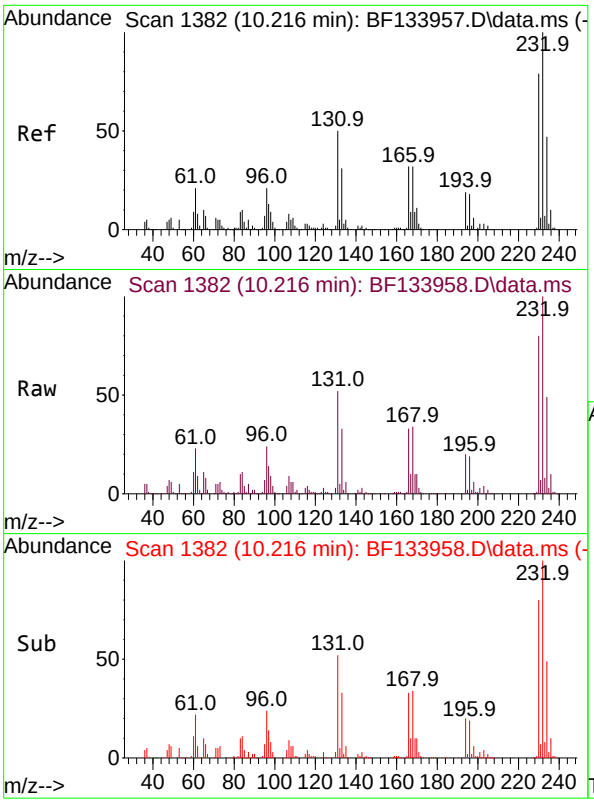


#58
Fluorene
Concen: 45.556 ng
RT: 10.445 min Scan# 1421
Delta R.T. 0.000 min
Lab File: BF133958.D
Acq: 26 Jun 2023 18:12

Tgt Ion:166 Resp: 794978

Ion	Ratio	Lower	Upper
166	100		
165	92.2	75.0	112.4
167	13.4	10.6	15.8

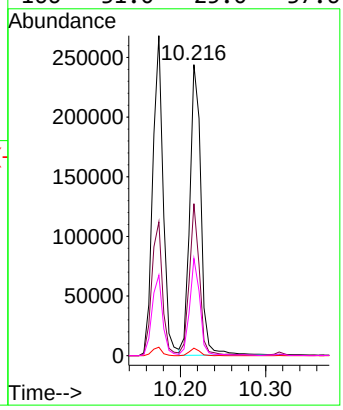




#59
2,3,4,6-Tetrachlorophenol
Concen: 47.759 ng
RT: 10.216 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF133958.D
Acq: 26 Jun 2023 18:12

Tgt Ion:232 Resp: 22048

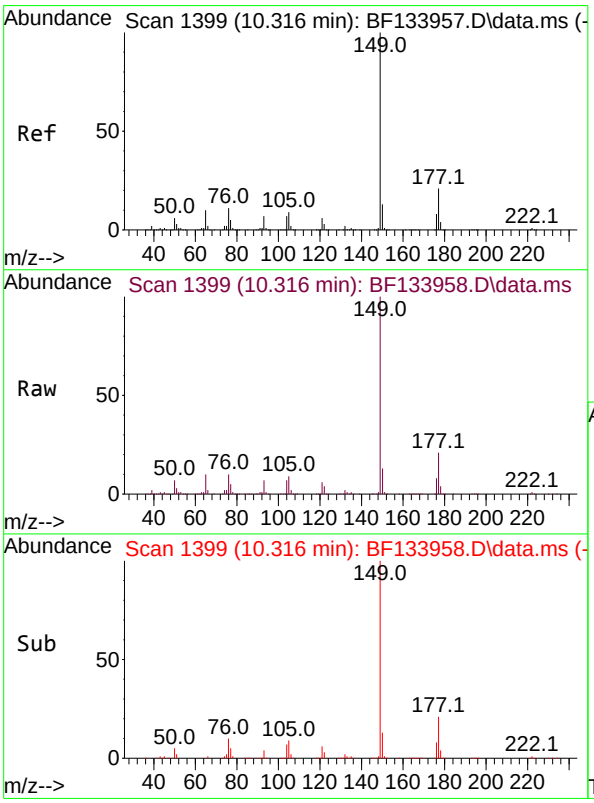
Ion	Ratio	Lower	Upper
232	100		
131	47.4	39.3	58.9
130	2.4	1.8	2.6
166	31.0	25.0	37.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

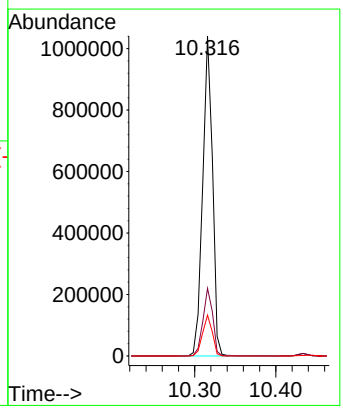
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

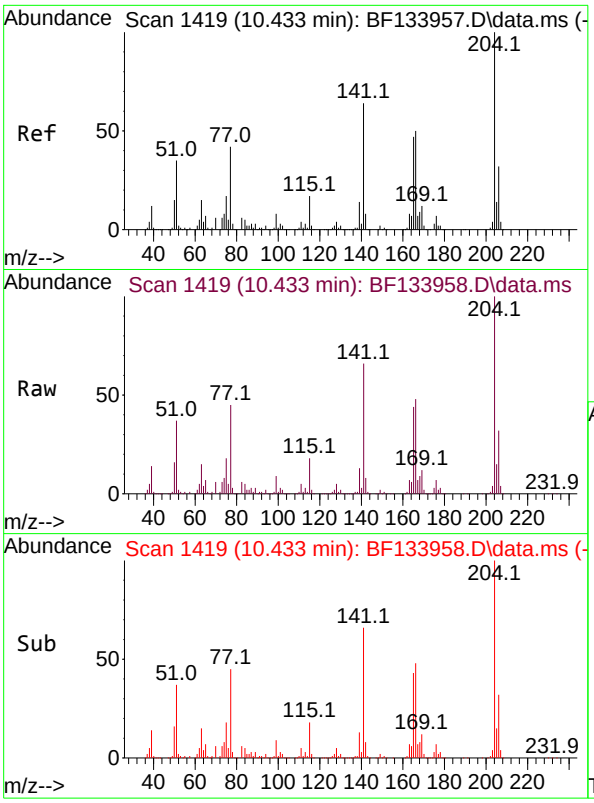


#60
Diethylphthalate
Concen: 46.764 ng
RT: 10.316 min Scan# 1399
Delta R.T. 0.000 min
Lab File: BF133958.D
Acq: 26 Jun 2023 18:12

Tgt Ion:149 Resp: 872503

Ion	Ratio	Lower	Upper
149	100		
177	21.2	17.0	25.6
150	12.8	10.2	15.2

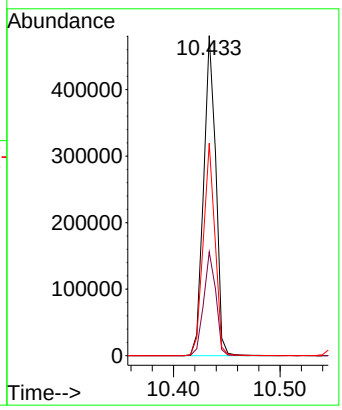




#61
4-Chlorophenyl-phenylether
Concen: 45.679 ng
RT: 10.433 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF133958.D
Acq: 26 Jun 2023 18:12

Tgt Ion:204 Resp: 384149

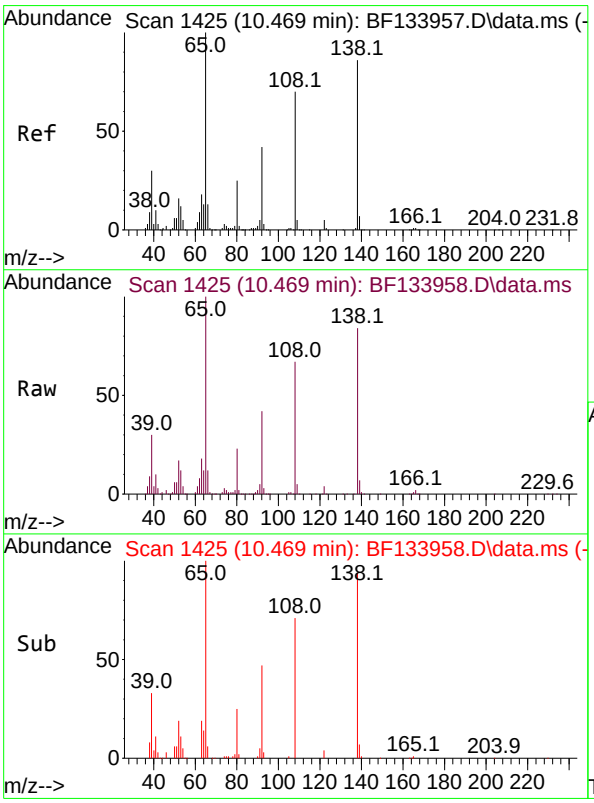
Ion	Ratio	Lower	Upper
204	100		
206	32.4	25.8	38.6
141	66.4	51.5	77.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

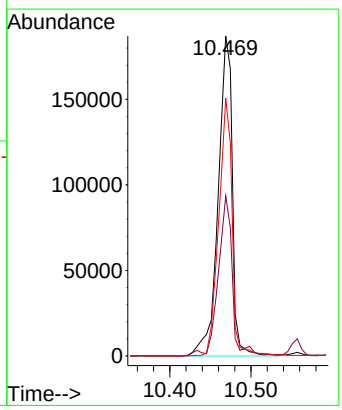
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

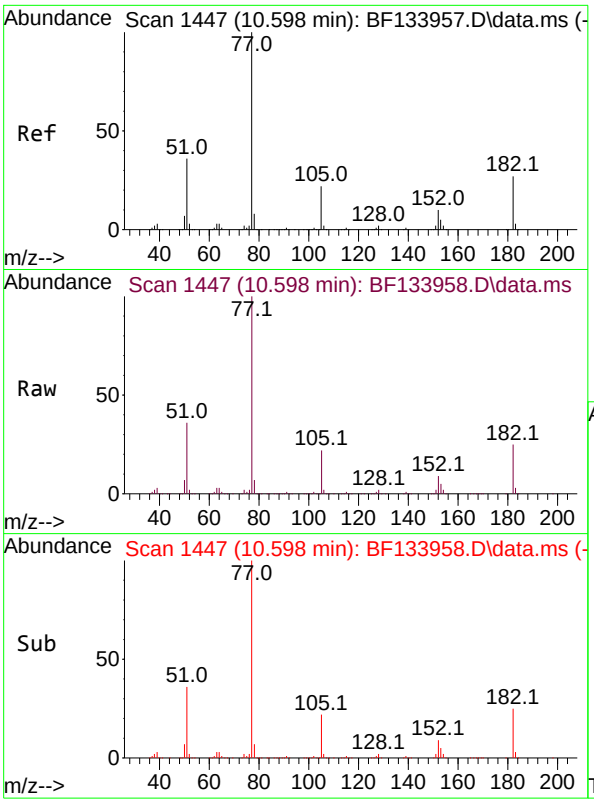


#62
4-Nitroaniline
Concen: 48.970 ng
RT: 10.469 min Scan# 1425
Delta R.T. 0.000 min
Lab File: BF133958.D
Acq: 26 Jun 2023 18:12

Tgt Ion:138 Resp: 228366

Ion	Ratio	Lower	Upper
138	100		
92	50.0	29.7	69.7
108	80.6	62.1	102.1

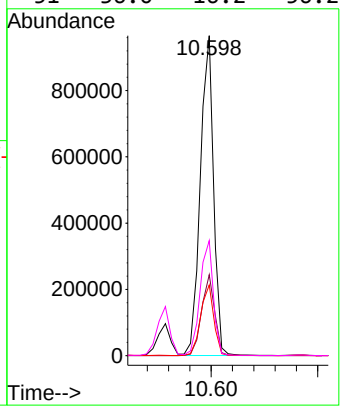




#63
Azobenzene
Concen: 47.446 ng
RT: 10.598 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF133958.D
Acq: 26 Jun 2023 18:12

Tgt Ion: 77 Resp: 83735

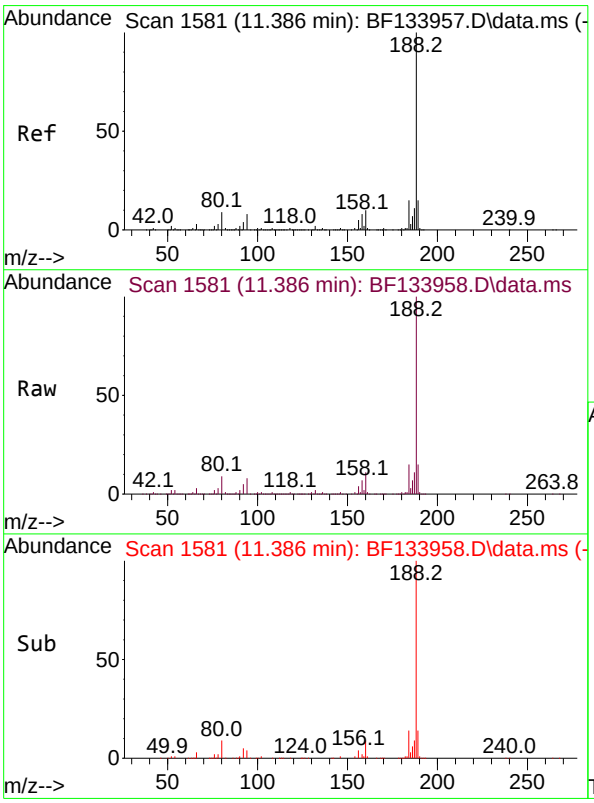
Ion	Ratio	Lower	Upper
77	100		
182	25.3	6.8	46.8
105	22.1	2.3	42.3
51	36.0	16.2	56.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

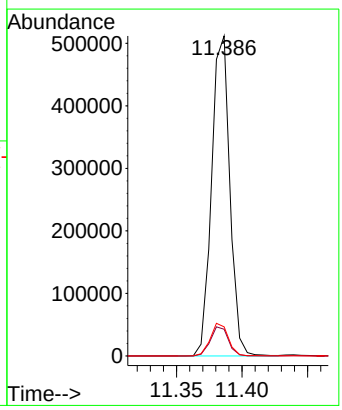
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

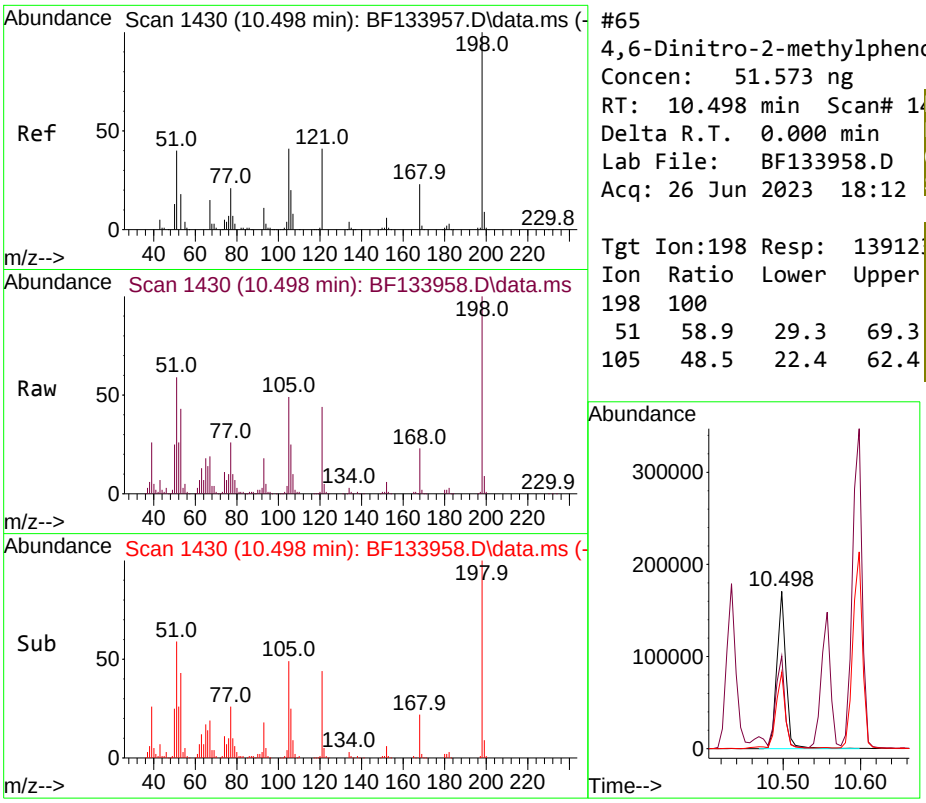


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.386 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BF133958.D
Acq: 26 Jun 2023 18:12

Tgt Ion:188 Resp: 494791

Ion	Ratio	Lower	Upper
188	100		
94	8.4	6.4	9.6
80	9.1	7.3	10.9





#65
4,6-Dinitro-2-methylphenol
Concen: 51.573 ng
RT: 10.498 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF133958.D
Acq: 26 Jun 2023 18:12

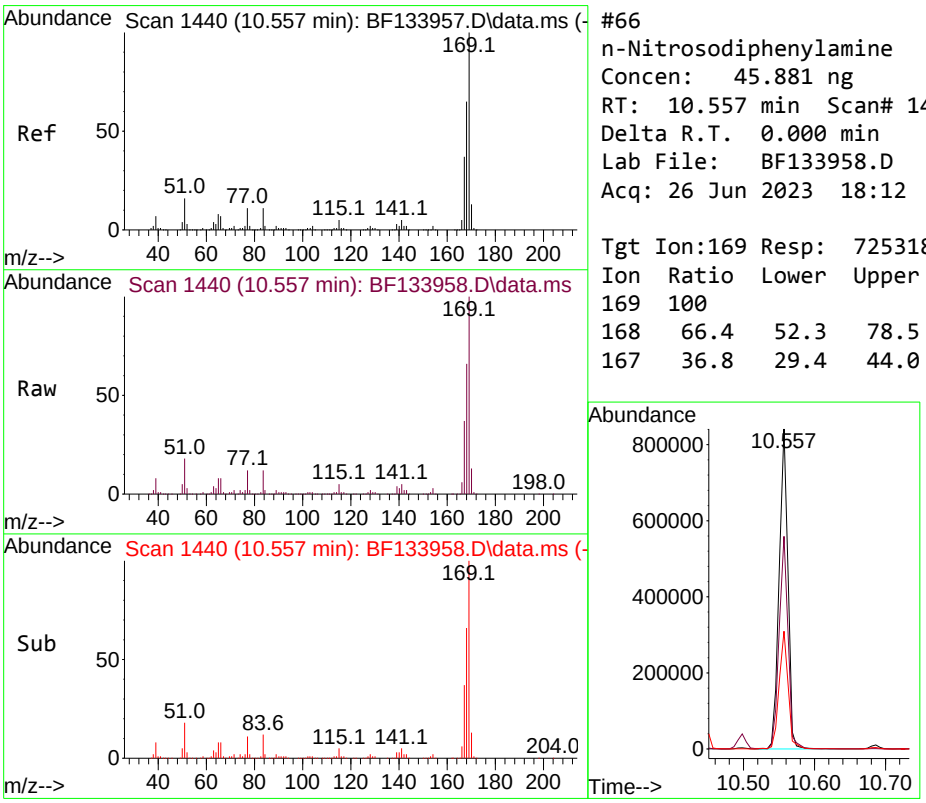
Tgt Ion:198 Resp: 13912

Ion	Ratio	Lower	Upper
198	100		
51	58.9	29.3	69.3
105	48.5	22.4	62.4

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

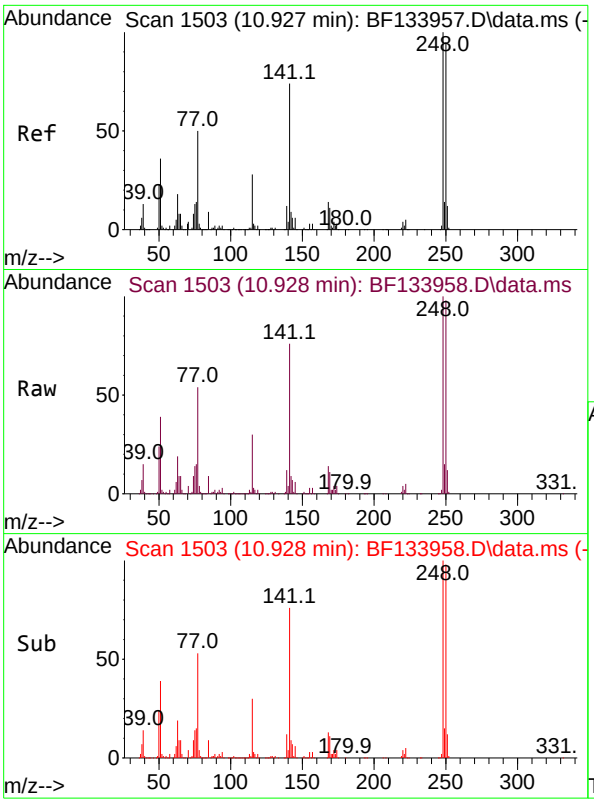
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023



#66
n-Nitrosodiphenylamine
Concen: 45.881 ng
RT: 10.557 min Scan# 1440
Delta R.T. 0.000 min
Lab File: BF133958.D
Acq: 26 Jun 2023 18:12

Tgt Ion:169 Resp: 725318

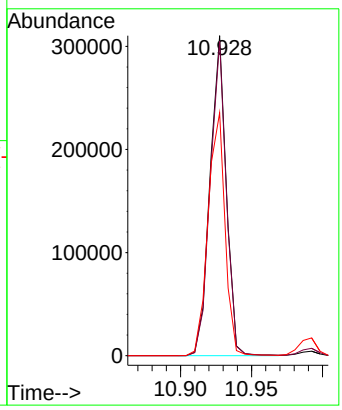
Ion	Ratio	Lower	Upper
169	100		
168	66.4	52.3	78.5
167	36.8	29.4	44.0



#67
4-Bromophenyl-phenylether
Concen: 46.696 ng
RT: 10.928 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF133958.D
Acq: 26 Jun 2023 18:12

Tgt Ion:248 Resp: 24557

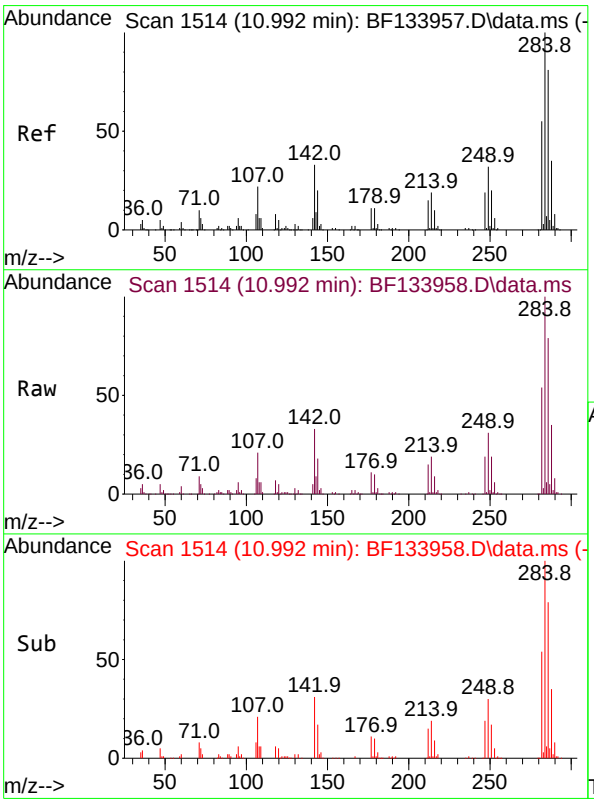
Ion	Ratio	Lower	Upper
248	100		
250	98.4	76.2	114.4
141	75.9	59.0	88.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

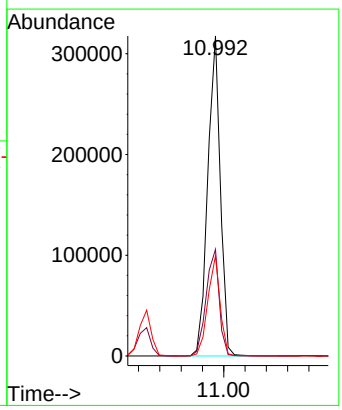
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

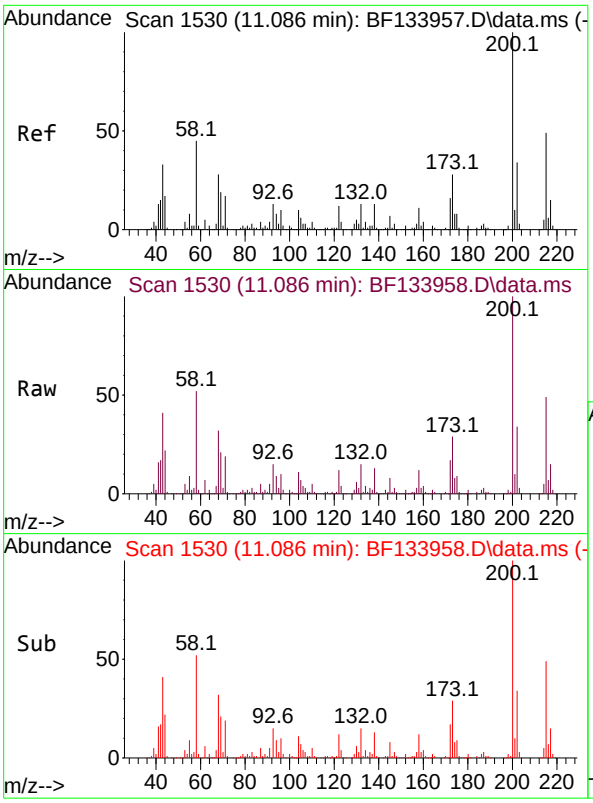


#68
Hexachlorobenzene
Concen: 46.793 ng
RT: 10.992 min Scan# 1514
Delta R.T. 0.000 min
Lab File: BF133958.D
Acq: 26 Jun 2023 18:12

Tgt Ion:284 Resp: 261285

Ion	Ratio	Lower	Upper
284	100		
142	33.3	26.6	40.0
249	31.3	25.5	38.3

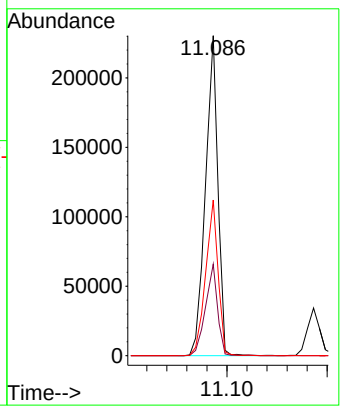




#69
Atrazine
Concen: 45.550 ng
RT: 11.086 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF133958.D
Acq: 26 Jun 2023 18:12

Tgt Ion:200 Resp: 19918

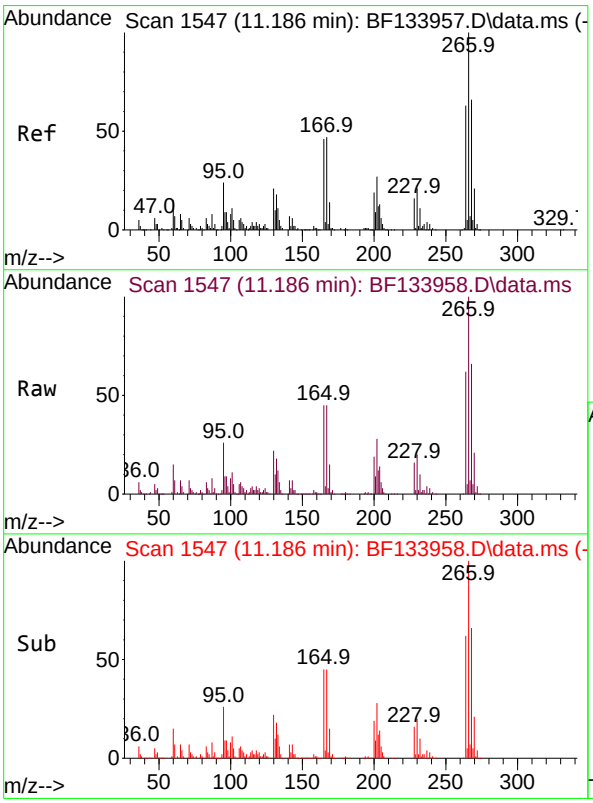
Ion	Ratio	Lower	Upper
200	100		
173	28.6	8.0	48.0
215	48.6	29.3	69.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

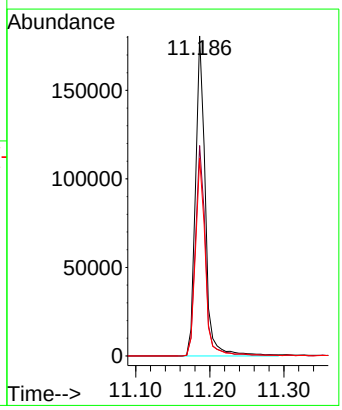
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

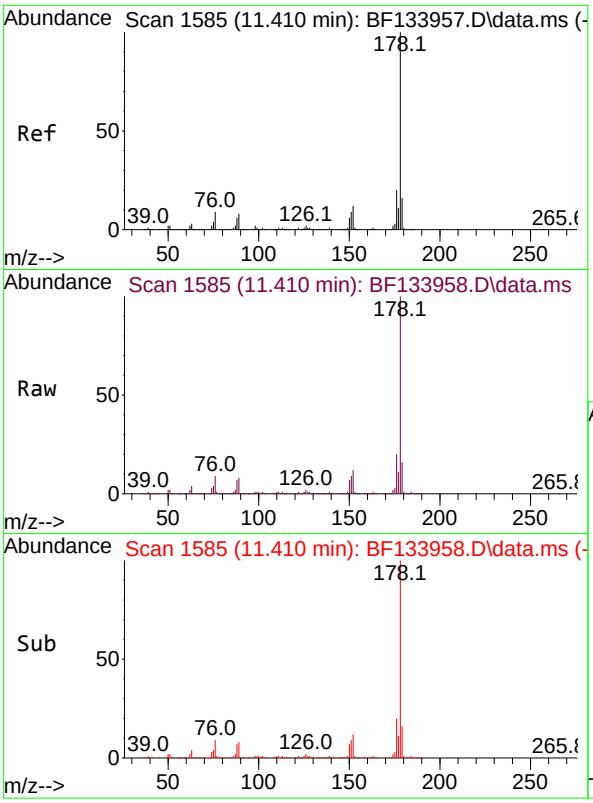


#70
Pentachlorophenol
Concen: 49.708 ng
RT: 11.186 min Scan# 1547
Delta R.T. 0.000 min
Lab File: BF133958.D
Acq: 26 Jun 2023 18:12

Tgt Ion:266 Resp: 165958

Ion	Ratio	Lower	Upper
266	100		
268	65.8	52.6	79.0
264	61.7	50.6	76.0

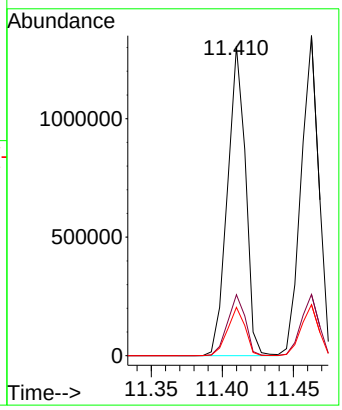




#71
Phenanthrene
Concen: 46.123 ng
RT: 11.410 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF133958.D
Acq: 26 Jun 2023 18:12

Tgt Ion:178 Resp: 114885

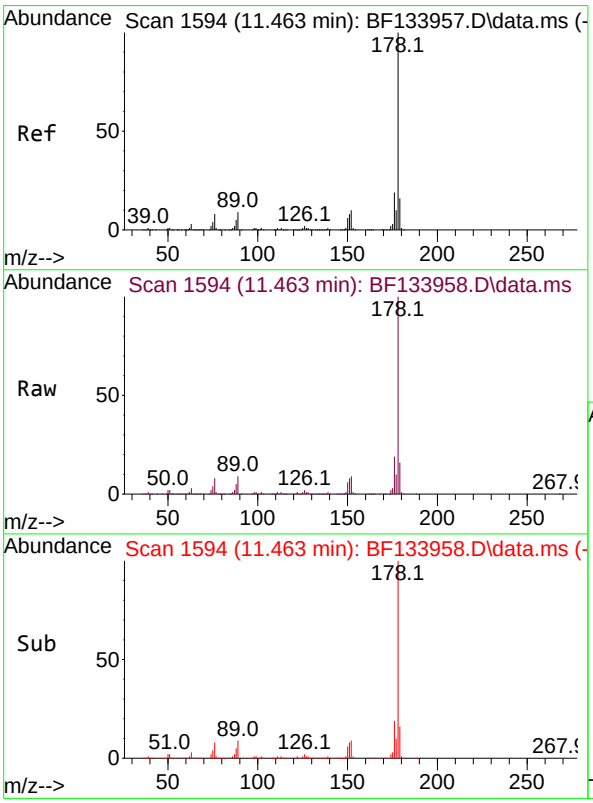
Ion	Ratio	Lower	Upper
178	100		
176	19.7	16.0	24.0
179	15.6	12.4	18.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

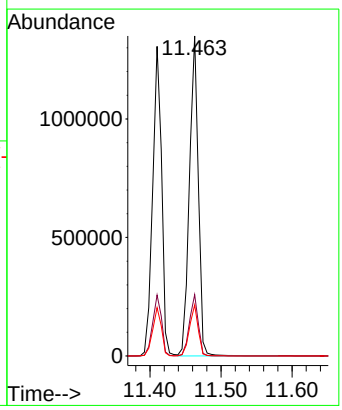
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

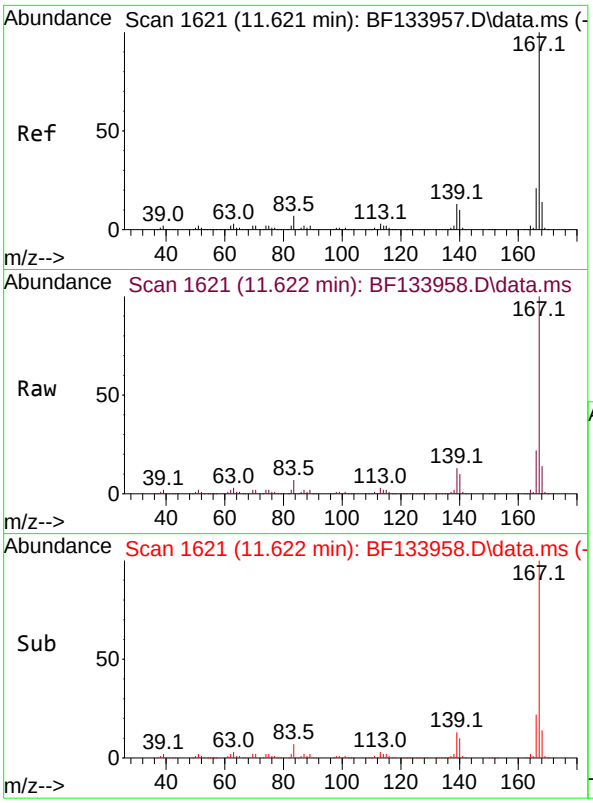


#72
Anthracene
Concen: 45.426 ng
RT: 11.463 min Scan# 1594
Delta R.T. 0.000 min
Lab File: BF133958.D
Acq: 26 Jun 2023 18:12

Tgt Ion:178 Resp: 1176893

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.3	22.9
179	16.0	12.4	18.6

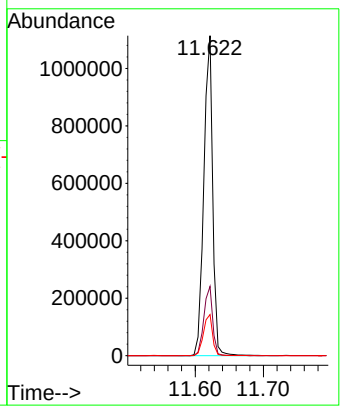




#73
Carbazole
Concen: 42.478 ng
RT: 11.622 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF133958.D
Acq: 26 Jun 2023 18:12

Tgt Ion:167 Resp: 100729

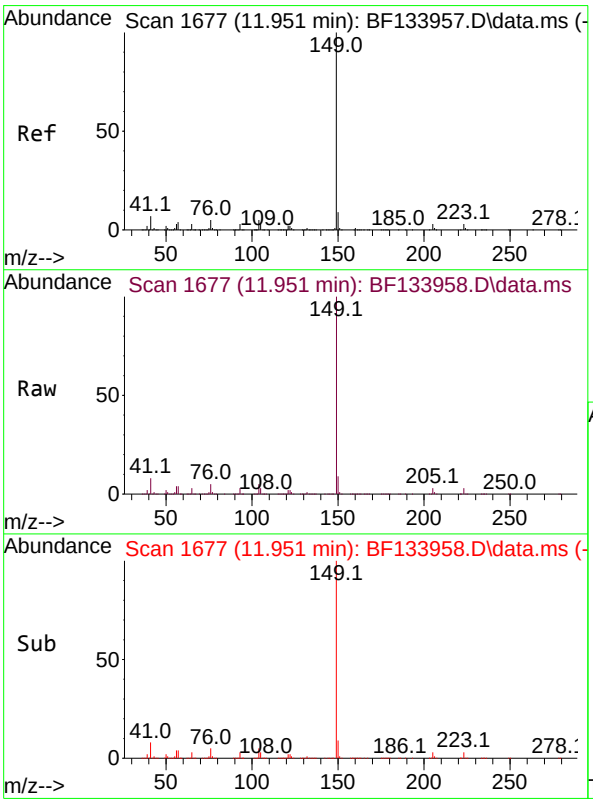
Ion	Ratio	Lower	Upper
167	100		
166	21.7	17.0	25.6
139	12.9	10.4	15.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

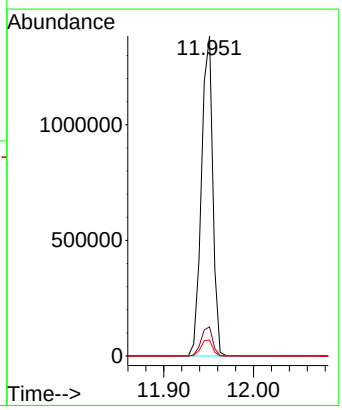
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

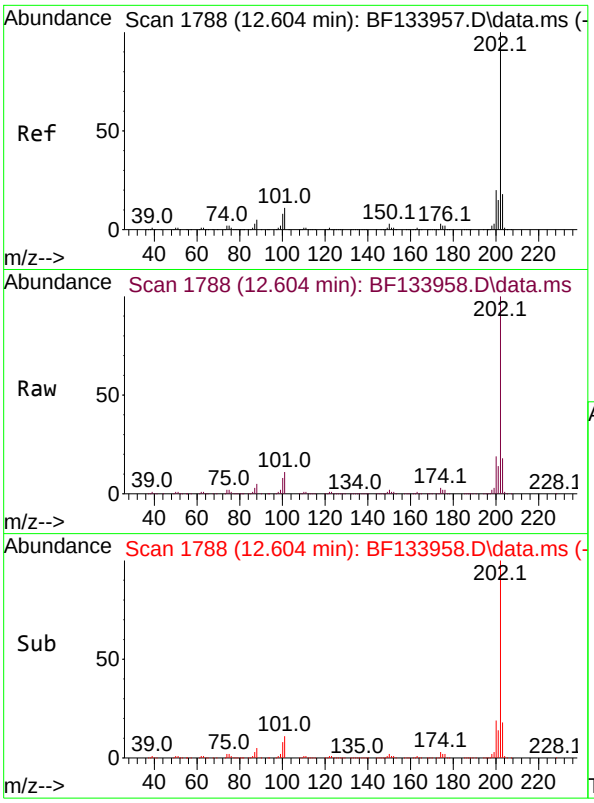


#74
Di-n-butylphthalate
Concen: 43.059 ng
RT: 11.951 min Scan# 1677
Delta R.T. 0.000 min
Lab File: BF133958.D
Acq: 26 Jun 2023 18:12

Tgt Ion:149 Resp: 1214261

Ion	Ratio	Lower	Upper
149	100		
150	9.1	7.1	10.7
104	5.0	4.0	6.0

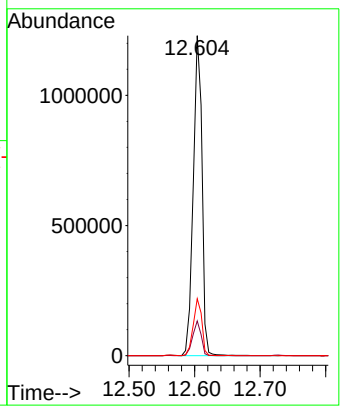




#75
Fluoranthene
Concen: 42.212 ng
RT: 12.604 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF133958.D
Acq: 26 Jun 2023 18:12

Tgt Ion:202 Resp: 113669

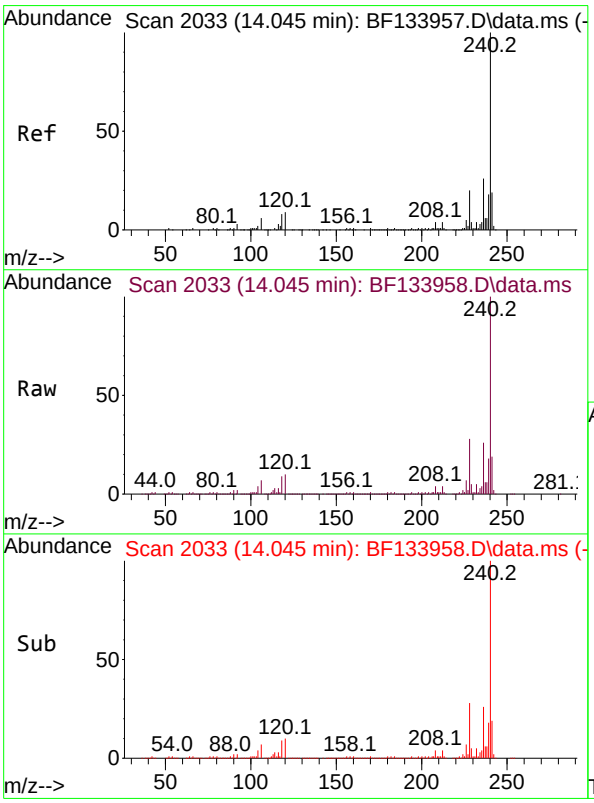
Ion	Ratio	Lower	Upper
202	100		
101	10.9	0.0	31.0
203	17.8	0.0	37.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

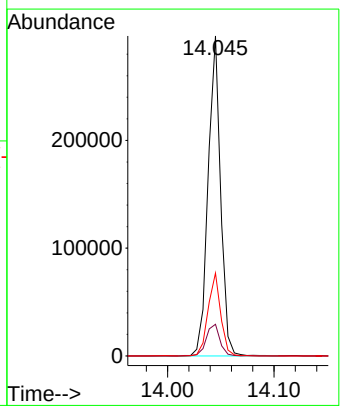
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

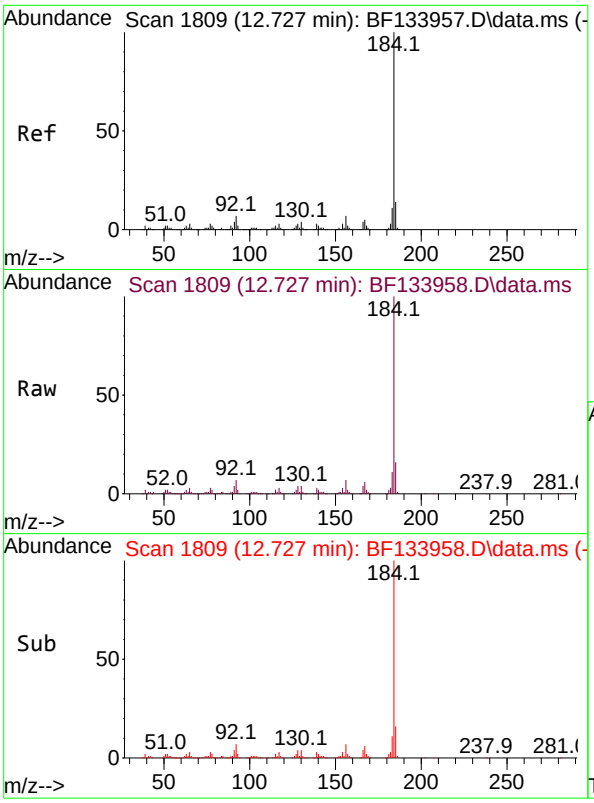


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.045 min Scan# 2033
Delta R.T. 0.000 min
Lab File: BF133958.D
Acq: 26 Jun 2023 18:12

Tgt Ion:240 Resp: 242439

Ion	Ratio	Lower	Upper
240	100		
120	9.9	7.4	11.0
236	25.9	21.0	31.6

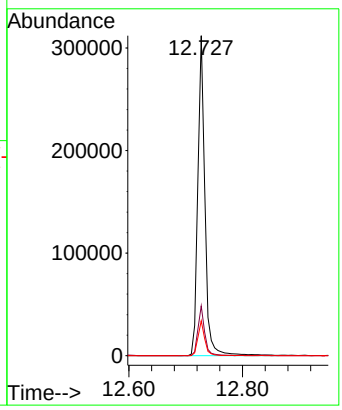




#77
Benzidine
Concen: 47.529 ng
RT: 12.727 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF133958.D
Acq: 26 Jun 2023 18:12

Tgt Ion:184 Resp: 27418

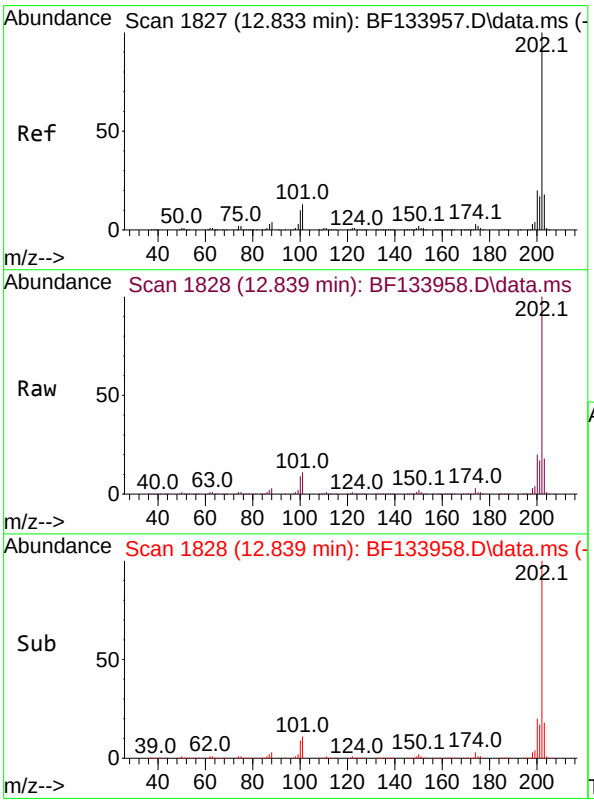
Ion	Ratio	Lower	Upper
184	100		
185	15.6	11.6	17.4
183	10.9	8.8	13.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

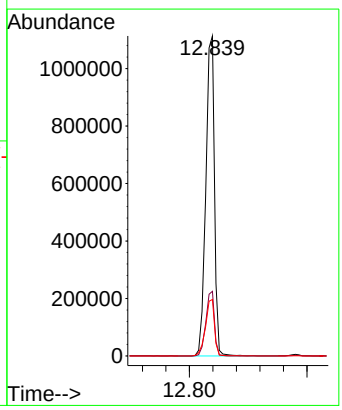
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

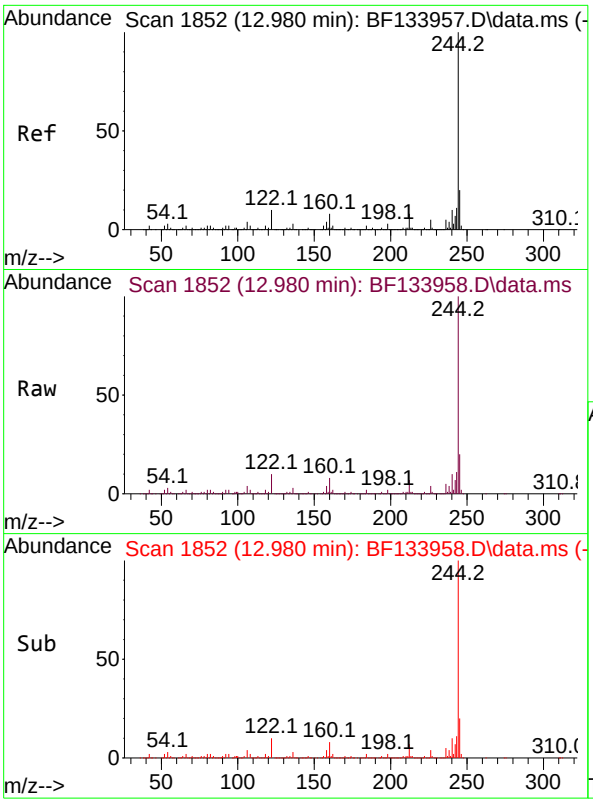


#78
Pyrene
Concen: 50.253 ng
RT: 12.839 min Scan# 1828
Delta R.T. 0.006 min
Lab File: BF133958.D
Acq: 26 Jun 2023 18:12

Tgt Ion:202 Resp: 1133825

Ion	Ratio	Lower	Upper
202	100		
200	20.2	16.1	24.1
203	17.6	14.3	21.5

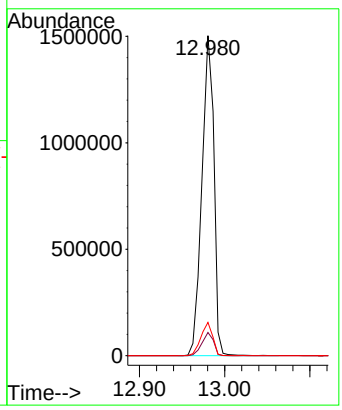




#79
Terphenyl-d14
Concen: 97.711 ng
RT: 12.980 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF133958.D
Acq: 26 Jun 2023 18:12

Tgt Ion:244 Resp: 147189

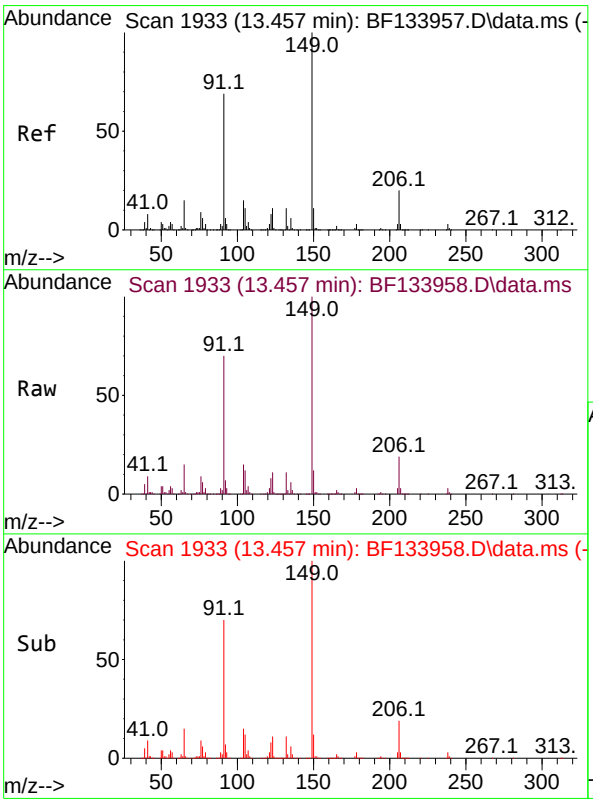
Ion	Ratio	Lower	Upper
244	100		
212	7.2	6.0	9.0
122	10.4	8.3	12.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

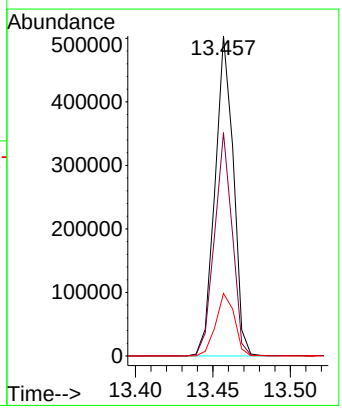
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

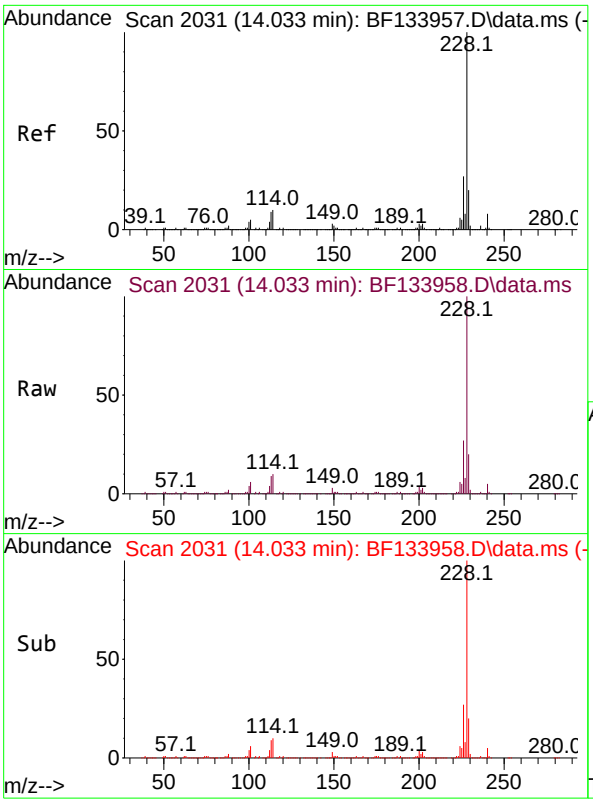


#80
Butylbenzylphthalate
Concen: 49.073 ng
RT: 13.457 min Scan# 1933
Delta R.T. 0.000 min
Lab File: BF133958.D
Acq: 26 Jun 2023 18:12

Tgt Ion:149 Resp: 415250

Ion	Ratio	Lower	Upper
149	100		
91	69.8	55.1	82.7
206	19.5	15.7	23.5

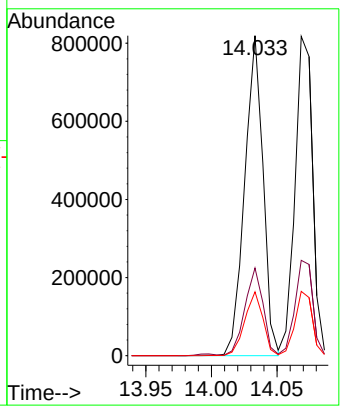




#81
Benzo(a)anthracene
Concen: 47.304 ng
RT: 14.033 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF133958.D
Acq: 26 Jun 2023 18:12

Tgt Ion:228 Resp: 79535

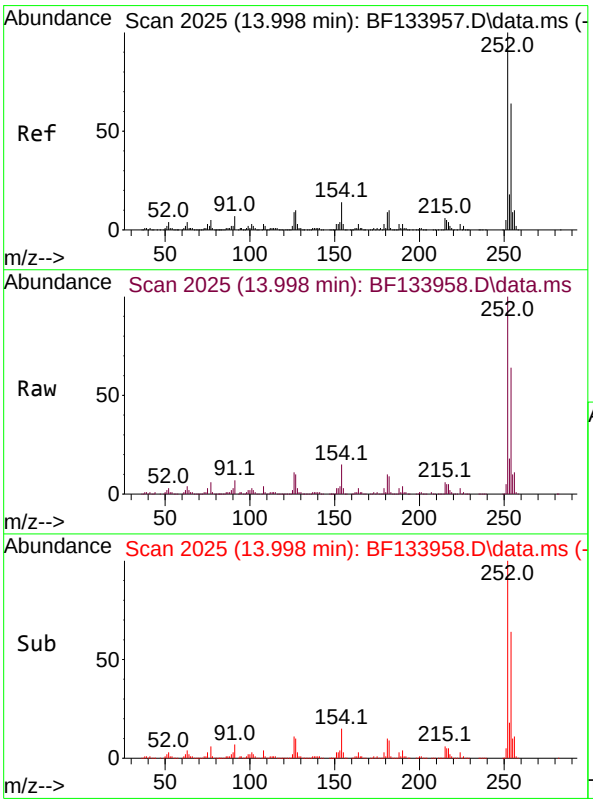
Ion	Ratio	Lower	Upper
228	100		
226	27.4	22.0	33.0
229	19.9	16.3	24.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

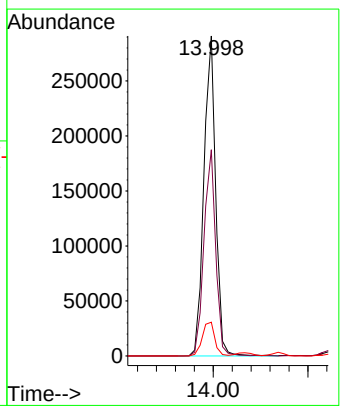
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

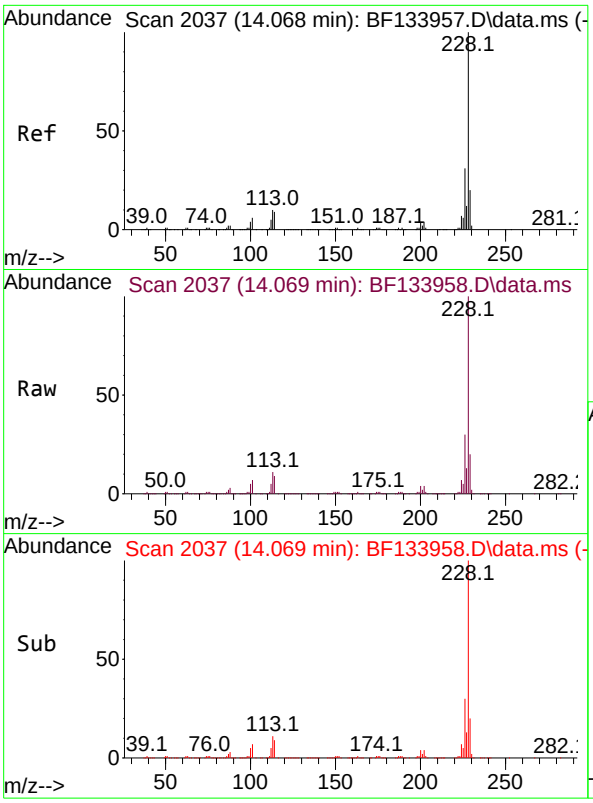


#82
3,3'-Dichlorobenzidine
Concen: 46.884 ng
RT: 13.998 min Scan# 2025
Delta R.T. 0.000 min
Lab File: BF133958.D
Acq: 26 Jun 2023 18:12

Tgt Ion:252 Resp: 249747

Ion	Ratio	Lower	Upper
252	100		
254	64.5	51.4	77.0
126	10.6	7.4	11.2

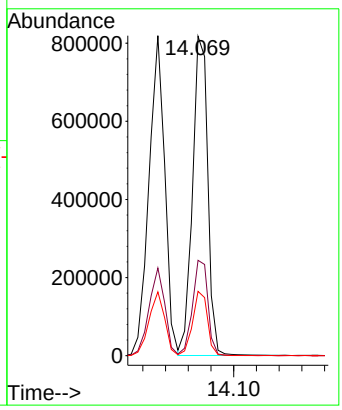




#83
Chrysene
Concen: 46.877 ng
RT: 14.069 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF133958.D
Acq: 26 Jun 2023 18:12

Tgt Ion:228 Resp: 76338

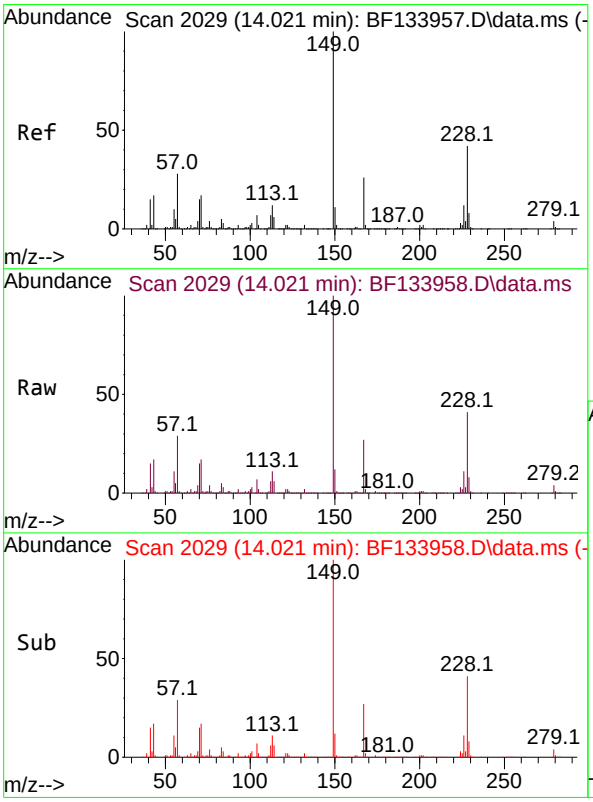
Ion	Ratio	Lower	Upper
228	100		
226	29.9	24.4	36.6
229	20.2	16.1	24.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

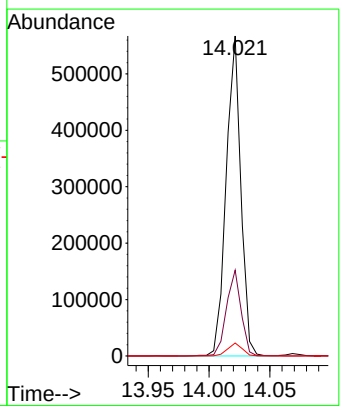
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

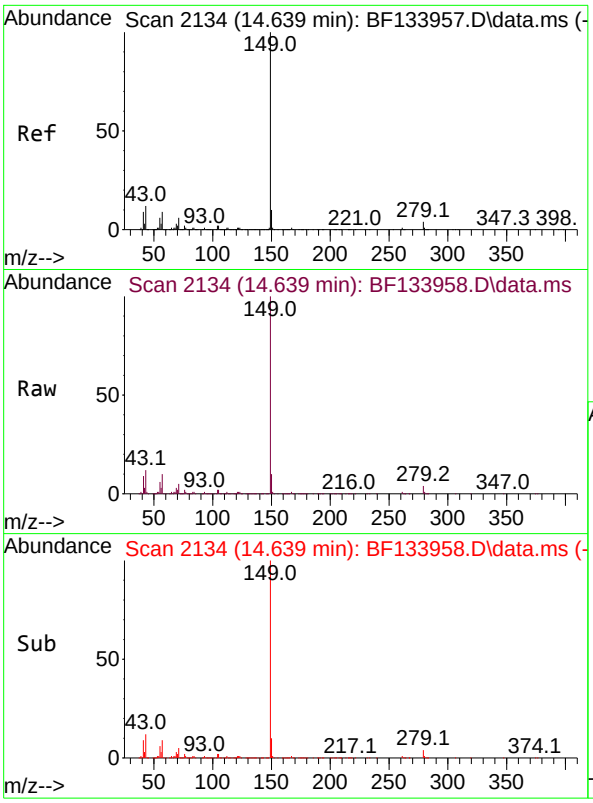


#84
Bis(2-ethylhexyl)phthalate
Concen: 48.927 ng
RT: 14.021 min Scan# 2029
Delta R.T. 0.000 min
Lab File: BF133958.D
Acq: 26 Jun 2023 18:12

Tgt Ion:149 Resp: 475731

Ion	Ratio	Lower	Upper
149	100		
167	26.8	21.0	31.4
279	4.1	3.3	4.9

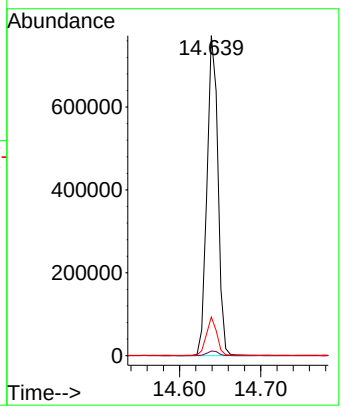




#85
Di-n-octyl phthalate
Concen: 50.427 ng
RT: 14.639 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF133958.D
Acq: 26 Jun 2023 18:12

Tgt Ion:149 Resp: 72045

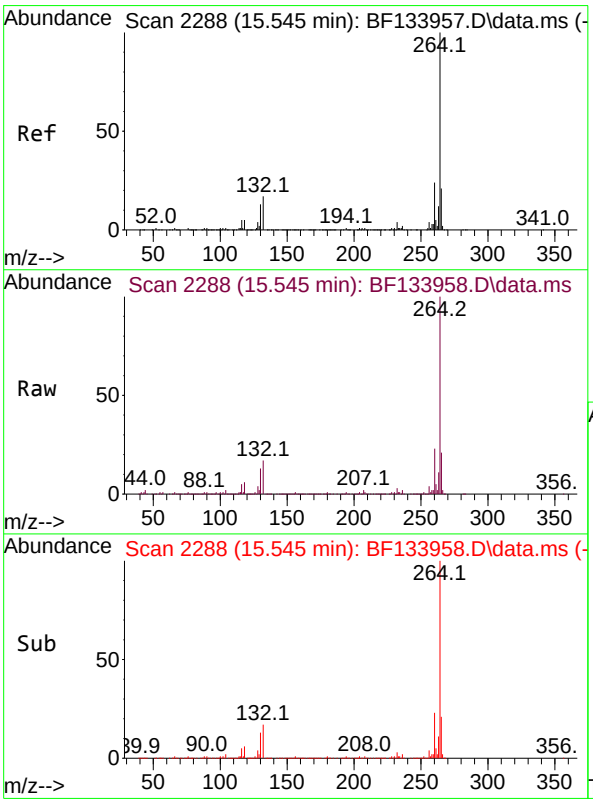
Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	11.5	9.0	13.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

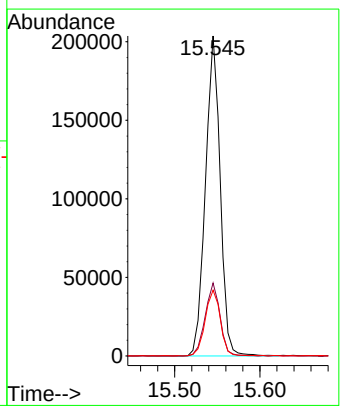
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

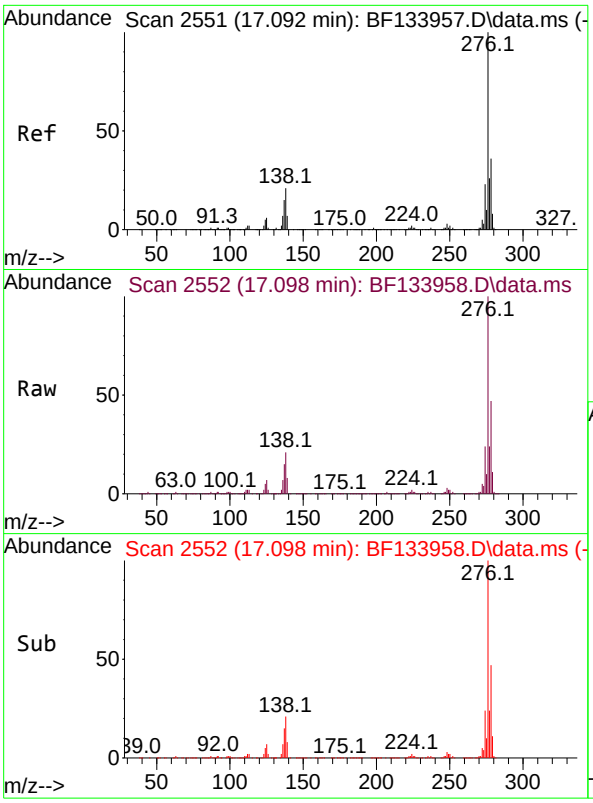


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.545 min Scan# 2288
Delta R.T. 0.000 min
Lab File: BF133958.D
Acq: 26 Jun 2023 18:12

Tgt Ion:264 Resp: 244365

Ion	Ratio	Lower	Upper
264	100		
260	22.8	19.5	29.3
265	20.6	16.6	25.0

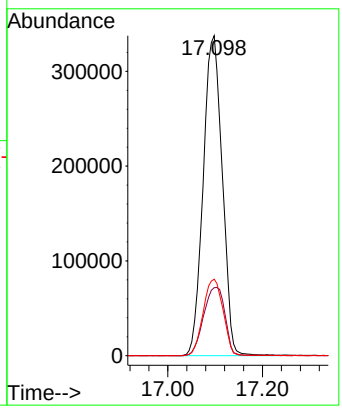




#87
Indeno(1,2,3-cd)pyrene
Concen: 55.667 ng
RT: 17.098 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF133958.D
Acq: 26 Jun 2023 18:12

Tgt Ion:276 Resp: 94391

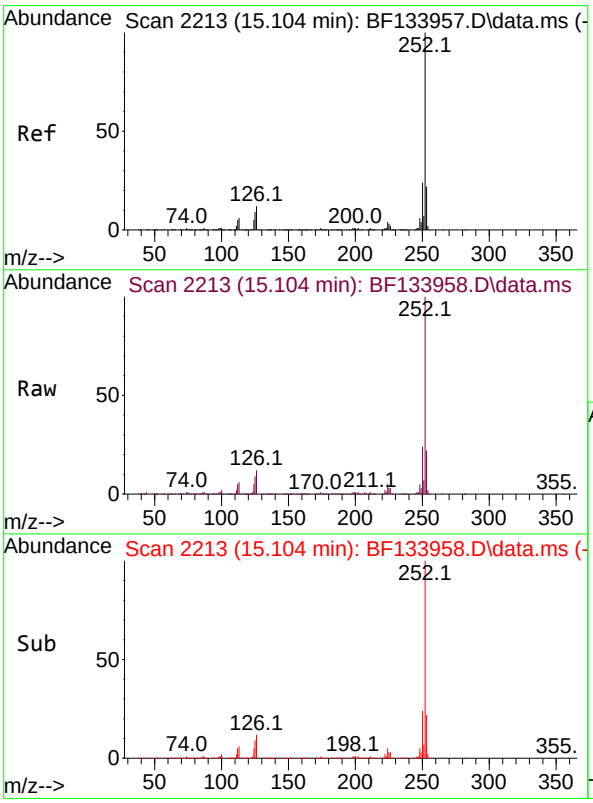
Ion	Ratio	Lower	Upper
276	100		
138	23.9	18.7	28.1
277	25.0	19.9	29.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

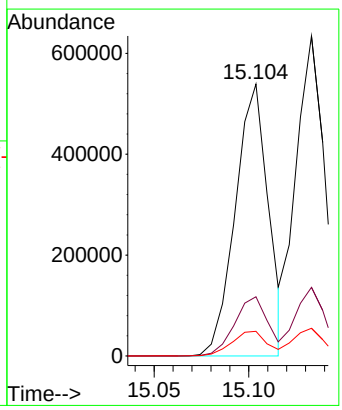
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

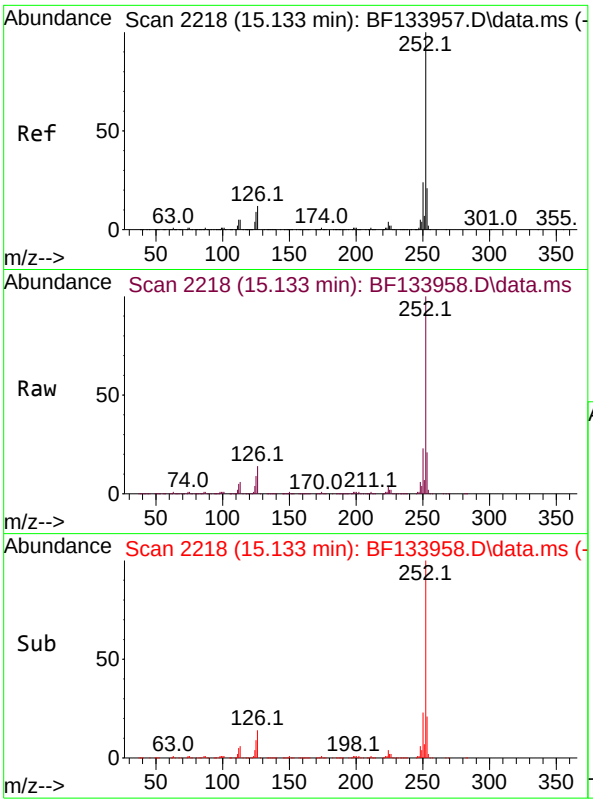


#88
Benzo(b)fluoranthene
Concen: 45.488 ng
RT: 15.104 min Scan# 2213
Delta R.T. 0.000 min
Lab File: BF133958.D
Acq: 26 Jun 2023 18:12

Tgt Ion:252 Resp: 653614

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.4	26.0
125	9.1	7.1	10.7

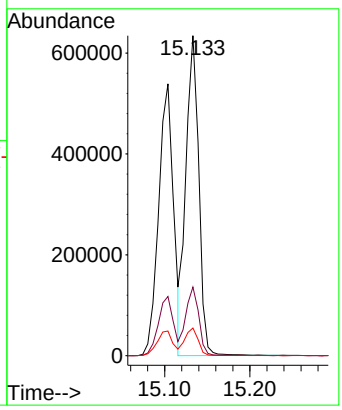




#89
Benzo(k)fluoranthene
Concen: 45.624 ng
RT: 15.133 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF133958.D
Acq: 26 Jun 2023 18:12

Tgt Ion:252 Resp: 66746

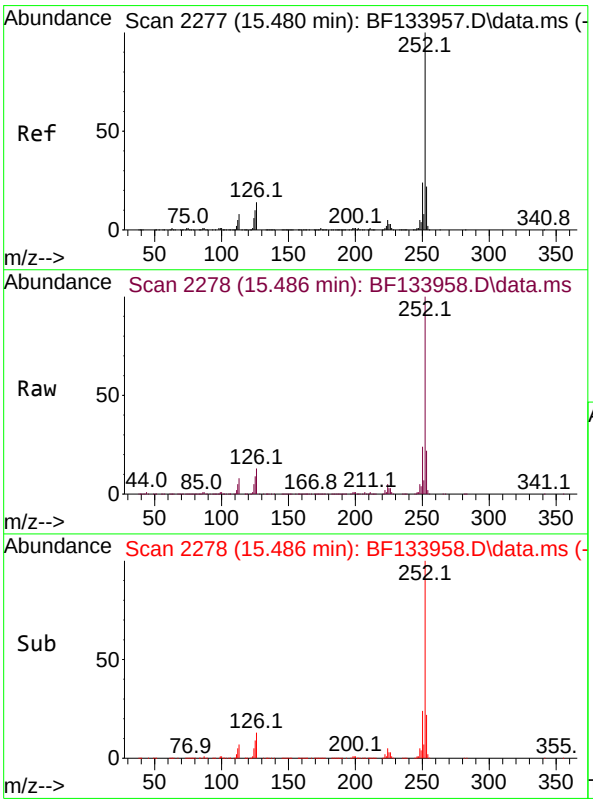
Ion	Ratio	Lower	Upper
252	100		
253	21.5	16.9	25.3
125	8.7	7.4	11.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

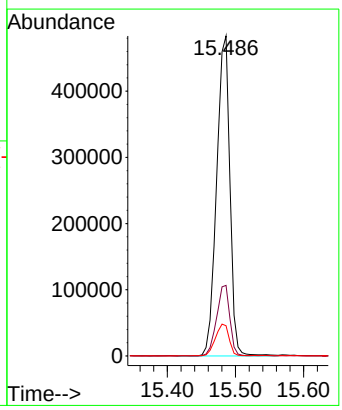
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

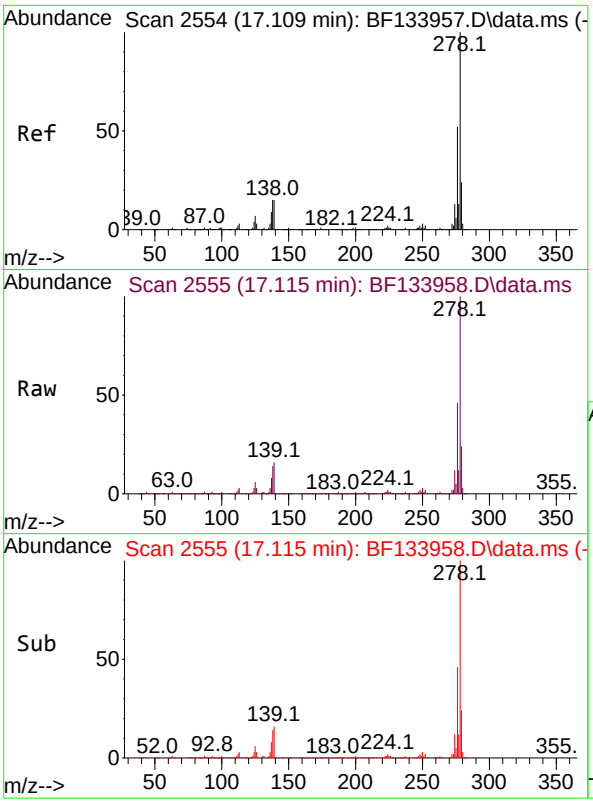


#90
Benzo(a)pyrene
Concen: 47.124 ng
RT: 15.486 min Scan# 2278
Delta R.T. 0.006 min
Lab File: BF133958.D
Acq: 26 Jun 2023 18:12

Tgt Ion:252 Resp: 654769

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.4	26.0
125	9.4	8.4	12.6

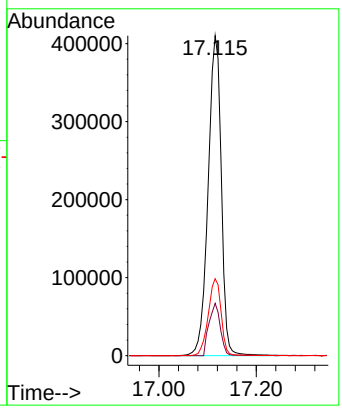




#91
Dibenzo(a,h)anthracene
Concen: 55.345 ng
RT: 17.115 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF133958.D
Acq: 26 Jun 2023 18:12

Tgt Ion:278 Resp: 76652

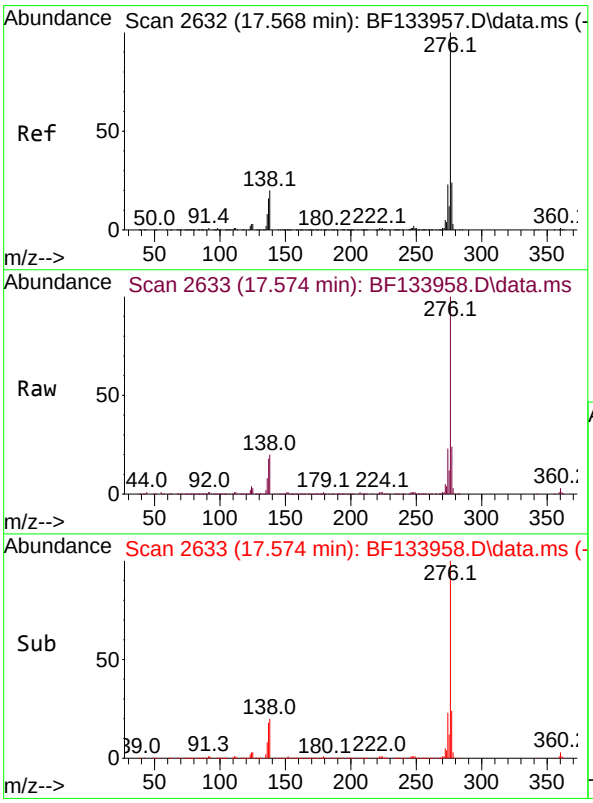
Ion	Ratio	Lower	Upper
278	100		
139	16.4	12.2	18.4
279	24.1	19.4	29.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

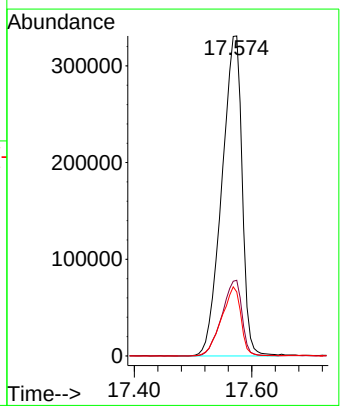
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023



#92
Benzo(g,h,i)perylene
Concen: 55.436 ng
RT: 17.574 min Scan# 2633
Delta R.T. 0.006 min
Lab File: BF133958.D
Acq: 26 Jun 2023 18:12

Tgt Ion:276 Resp: 791765

Ion	Ratio	Lower	Upper
276	100		
277	23.6	19.0	28.6
138	20.0	16.2	24.2



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF062623\
Data File : BF133959.D
Acq On : 26 Jun 2023 18:47
Operator : CG\JU
Sample : SSTDICC060
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

Quant Time: Jun 26 23:07:21 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF062623.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Jun 26 22:39:13 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.851	152	116719	20.000	ng	0.00
21) Naphthalene-d8	8.133	136	415345	20.000	ng	0.00
39) Acenaphthene-d10	9.892	164	208721	20.000	ng	0.00
64) Phenanthrene-d10	11.386	188	414540	20.000	ng	0.00
76) Chrysene-d12	14.045	240	217263	20.000	ng	0.00
86) Perylene-d12	15.545	264	222512	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.487	112	784331	112.407	ng	0.00
7) Phenol-d6	6.498	99	964339	112.380	ng	0.00
23) Nitrobenzene-d5	7.422	82	920153	119.422	ng	0.00
42) 2,4,6-Tribromophenol	10.686	330	304770	116.460	ng	0.00
45) 2-Fluorobiphenyl	9.216	172	1583598	110.309	ng	0.00
79) Terphenyl-d14	12.986	244	1633405	120.998	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.634	88	167544	58.234	ng	99
3) Pyridine	3.416	79	459645	61.131	ng	98
4) n-Nitrosodimethylamine	3.393	42	264913	61.894	ng	97
6) Aniline	6.528	93	598403	57.307	ng	100
8) 2-Chlorophenol	6.645	128	392298	55.385	ng	95
9) Benzaldehyde	6.410	77	251839	62.038	ng	97
10) Phenol	6.510	94	499860	55.402	ng	92
11) bis(2-Chloroethyl)ether	6.598	93	378557	56.991	ng	99
12) 1,3-Dichlorobenzene	6.798	146	429059	56.818	ng	96
13) 1,4-Dichlorobenzene	6.869	146	430939	56.500	ng	98
14) 1,2-Dichlorobenzene	7.028	146	394778	55.266	ng	98
15) Benzyl Alcohol	6.998	79	379617	57.385	ng	98
16) 2,2'-oxybis(1-Chloropr...	7.134	45	664550	56.551	ng	99
17) 2-Methylphenol	7.110	107	356380	56.187	ng	97
18) Hexachloroethane	7.363	117	162248	57.370	ng	99
19) n-Nitroso-di-n-propyla...	7.275	70	297367	54.645	ng	100
20) 3+4-Methylphenols	7.263	107	420161	54.603	ng	90
22) Acetophenone	7.269	105	533128	56.440	ng	99
24) Nitrobenzene	7.439	77	466861	59.960	ng	94
25) Isophorone	7.675	82	831700	59.393	ng	98
26) 2-Nitrophenol	7.751	139	225985	60.502	ng	93
27) 2,4-Dimethylphenol	7.792	122	344298	58.233	ng	99
28) bis(2-Chloroethoxy)met...	7.886	93	465936	57.463	ng	99
29) 2,4-Dichlorophenol	7.992	162	340945	58.153	ng	96
30) 1,2,4-Trichlorobenzene	8.075	180	356092	58.862	ng	99
31) Naphthalene	8.157	128	1150728	57.357	ng	99
32) Benzoic acid	7.928	122	283269m	65.199	ng	
33) 4-Chloroaniline	8.210	127	499877	58.247	ng	98
34) Hexachlorobutadiene	8.269	225	224064	58.715	ng	99
35) Caprolactam	8.598	113	116579	60.390	ng	97
36) 4-Chloro-3-methylphenol	8.692	107	385941	58.597	ng	100
37) 2-Methylnaphthalene	8.845	142	797206	56.191	ng	100
38) 1-Methylnaphthalene	8.945	142	745307	56.509	ng	99
40) 1,2,4,5-Tetrachloroben...	9.016	216	359458	58.130	ng	99
41) Hexachlorocyclopentadiene	8.998	237	193831	66.071	ng	99
43) 2,4,6-Trichlorophenol	9.128	196	246624	58.587	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF062623\
Data File : BF133959.D
Acq On : 26 Jun 2023 18:47
Operator : CG\JU
Sample : SSTDICC060
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 26 23:07:21 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF062623.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Jun 26 22:39:13 2023
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.169	196	292482	59.069	ng		97
46) 1,1'-Biphenyl	9.316	154	955258	57.055	ng		98
47) 2-Chloronaphthalene	9.339	162	703274	57.409	ng		98
48) 2-Nitroaniline	9.439	65	270736	60.641	ng		98
49) Acenaphthylene	9.757	152	1195218	57.116	ng		100
50) Dimethylphthalate	9.622	163	881908	58.207	ng		100
51) 2,6-Dinitrotoluene	9.680	165	197317	60.466	ng	#	85
52) Acenaphthene	9.927	154	702729	57.873	ng		99
53) 3-Nitroaniline	9.857	138	234365	59.865	ng		96
54) 2,4-Dinitrophenol	9.963	184	120321	64.625	ng		95
55) Dibenzofuran	10.098	168	1064882	56.114	ng		97
56) 4-Nitrophenol	10.016	139	170417	62.232	ng		96
57) 2,4-Dinitrotoluene	10.092	165	255148	59.204	ng		94
58) Fluorene	10.445	166	825647	55.923	ng		99
59) 2,3,4,6-Tetrachlorophenol	10.222	232	232746	59.590	ng		98
60) Diethylphthalate	10.316	149	906406	57.422	ng		97
61) 4-Chlorophenyl-phenyle...	10.433	204	399771	56.187	ng		94
62) 4-Nitroaniline	10.475	138	236762	60.010	ng		96
63) Azobenzene	10.598	77	860233	57.612	ng		97
65) 4,6-Dinitro-2-methylph...	10.504	198	148206	65.577	ng		98
66) n-Nitrosodiphenylamine	10.557	169	750313	56.650	ng		98
67) 4-Bromophenyl-phenylether	10.927	248	252818	57.379	ng		94
68) Hexachlorobenzene	10.992	284	275891	58.974	ng		98
69) Atrazine	11.086	200	208175	56.823	ng		98
70) Pentachlorophenol	11.186	266	170583	60.984	ng		97
71) Phenanthrene	11.410	178	1182887	56.683	ng		99
72) Anthracene	11.463	178	1229139	56.627	ng		100
73) Carbazole	11.621	167	1121871	56.468	ng		98
74) Di-n-butylphthalate	11.951	149	1347856	57.049	ng		99
75) Fluoranthene	12.610	202	1258196	55.769	ng		98
77) Benzidine	12.727	184	267259	51.698	ng		99
78) Pyrene	12.839	202	1260659	62.349	ng		99
80) Butylbenzylphthalate	13.457	149	469390	61.899	ng		96
81) Benzo(a)anthracene	14.033	228	883750	58.652	ng		99
82) 3,3'-Dichlorobenzidine	13.998	252	268725	56.293	ng		99
83) Chrysene	14.074	228	850993	58.311	ng		100
84) Bis(2-ethylhexyl)phtha...	14.021	149	535762	61.486	ng		100
85) Di-n-octyl phthalate	14.645	149	823554	64.323	ng		100
87) Indeno(1,2,3-cd)pyrene	17.098	276	993029	64.315	ng		99
88) Benzo(b)fluoranthene	15.104	252	743760	56.846	ng		98
89) Benzo(k)fluoranthene	15.139	252	771681	57.928	ng		98
90) Benzo(a)pyrene	15.486	252	749975	59.277	ng		99
91) Dibenzo(a,h)anthracene	17.121	278	801030	63.517	ng		98
92) Benzo(g,h,i)perylene	17.574	276	832374	64.003	ng		99

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

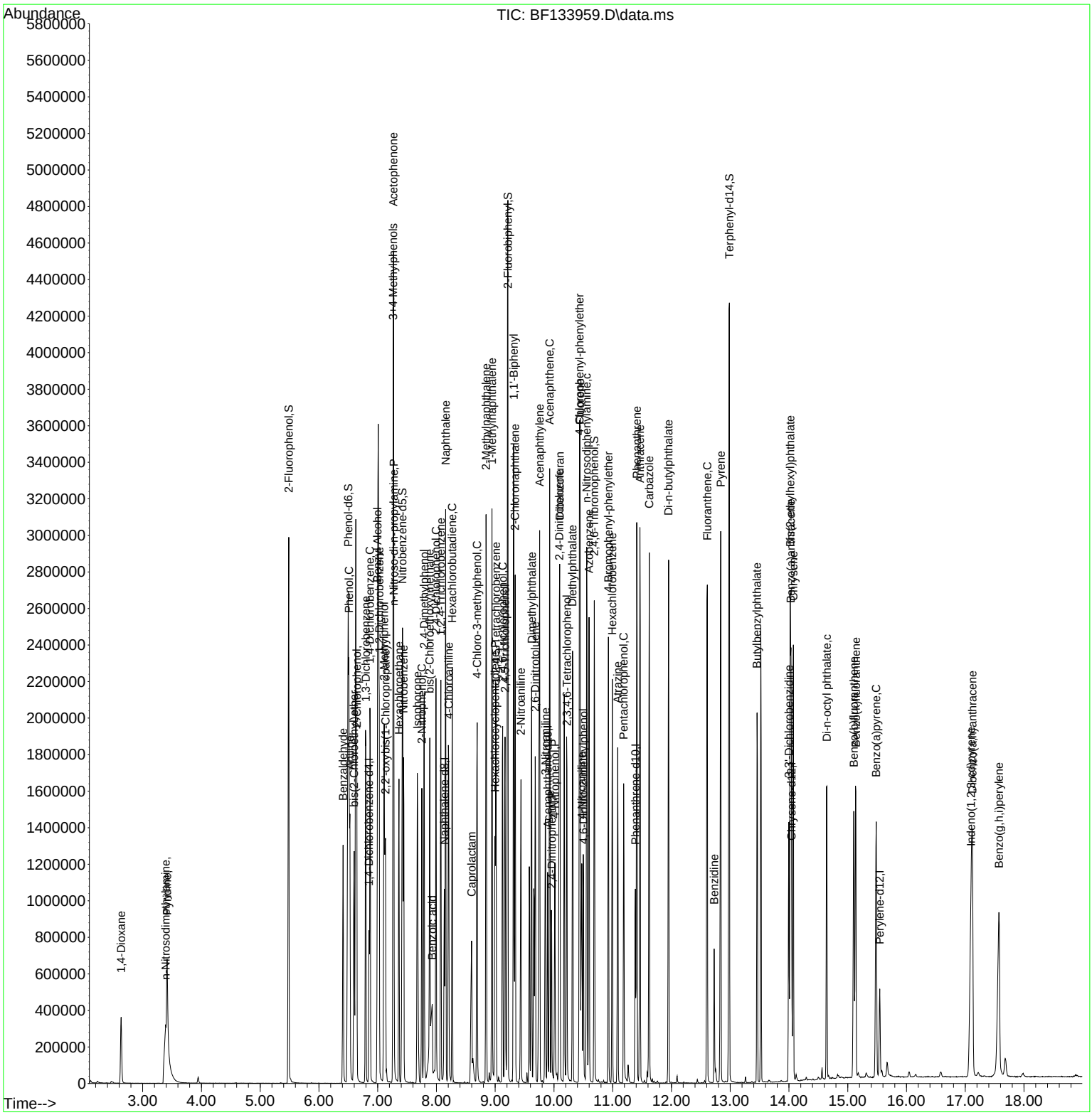
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF062623\
Data File : BF133959.D
Acq On : 26 Jun 2023 18:47
Operator : CG\JU
Sample : SSTDICC060
Misc :
ALS Vial : 8 Sample Multiplier: 1

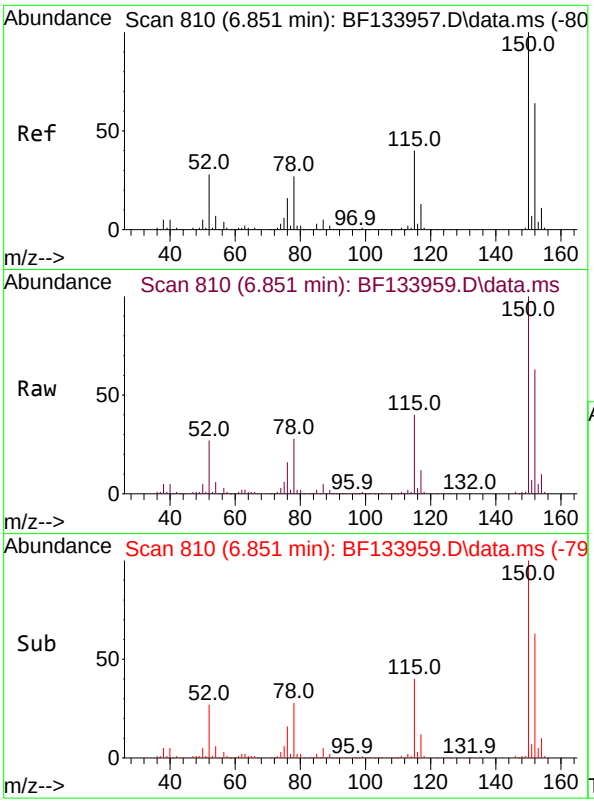
Quant Time: Jun 26 23:07:21 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF062623.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Jun 26 22:39:13 2023
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

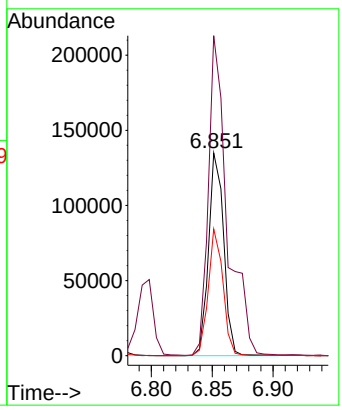




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.851 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF133959.D
Acq: 26 Jun 2023 18:47

Tgt Ion:152 Resp: 11671

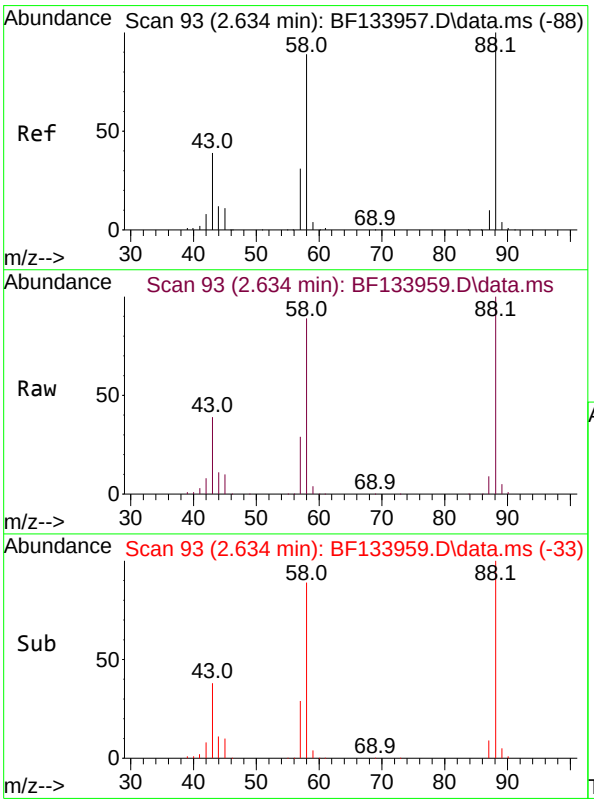
Ion	Ratio	Lower	Upper
152	100		
150	157.8	124.5	186.7
115	62.5	50.2	75.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

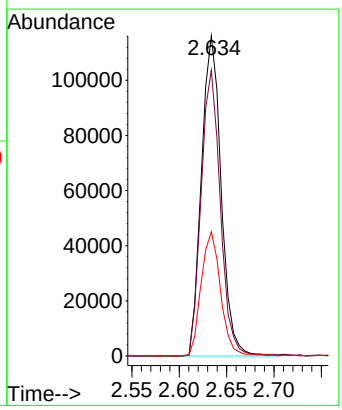
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

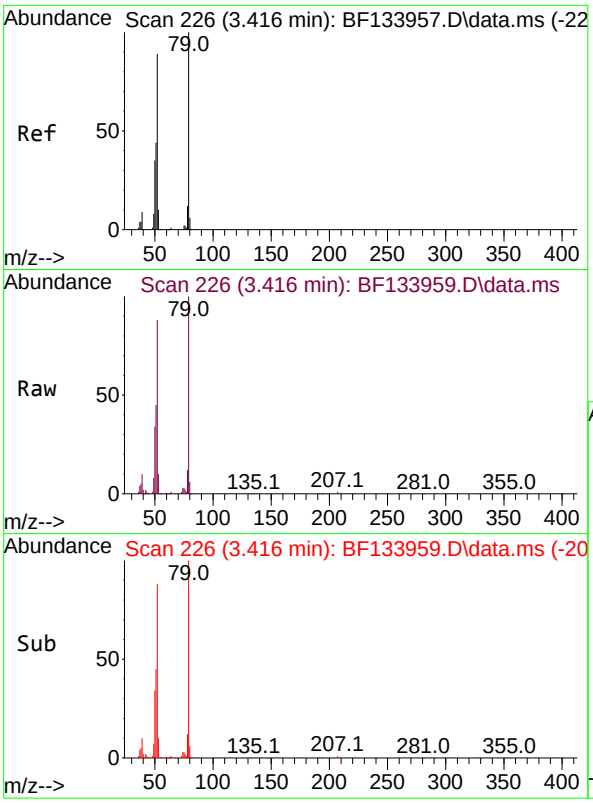


#2
1,4-Dioxane
Concen: 58.234 ng
RT: 2.634 min Scan# 93
Delta R.T. 0.000 min
Lab File: BF133959.D
Acq: 26 Jun 2023 18:47

Tgt Ion: 88 Resp: 167544

Ion	Ratio	Lower	Upper
88	100		
58	86.9	68.8	103.2
43	38.4	30.7	46.1

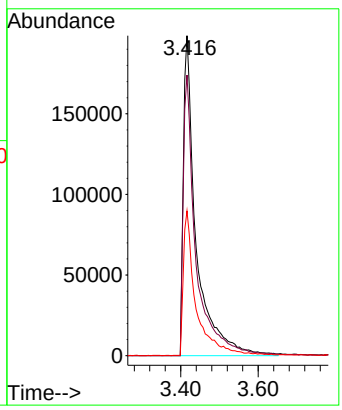




#3
Pyridine
Concen: 61.131 ng
RT: 3.416 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF133959.D
Acq: 26 Jun 2023 18:47

Tgt Ion: 79 Resp: 45964

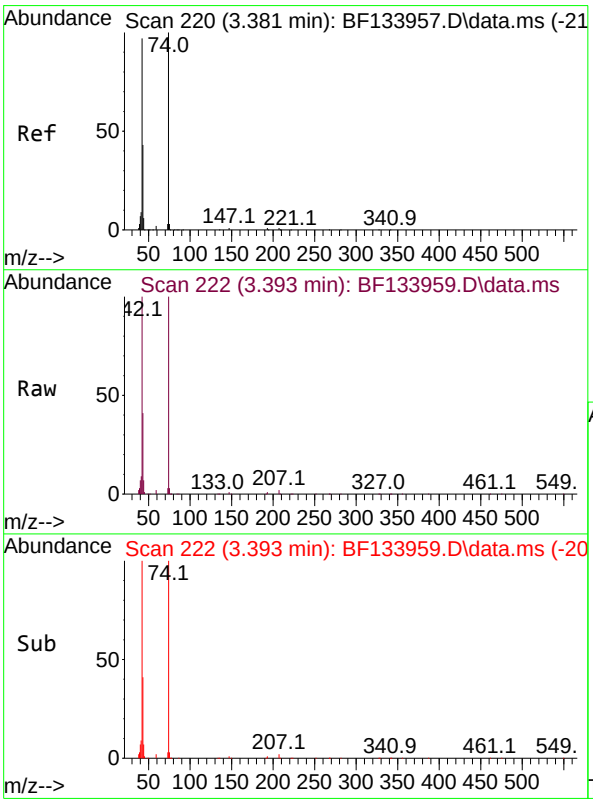
Ion	Ratio	Lower	Upper
79	100		
52	87.7	71.1	106.7
51	45.2	35.2	52.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

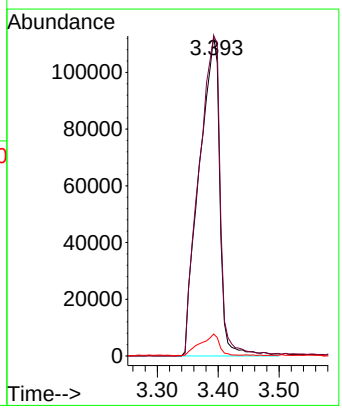
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

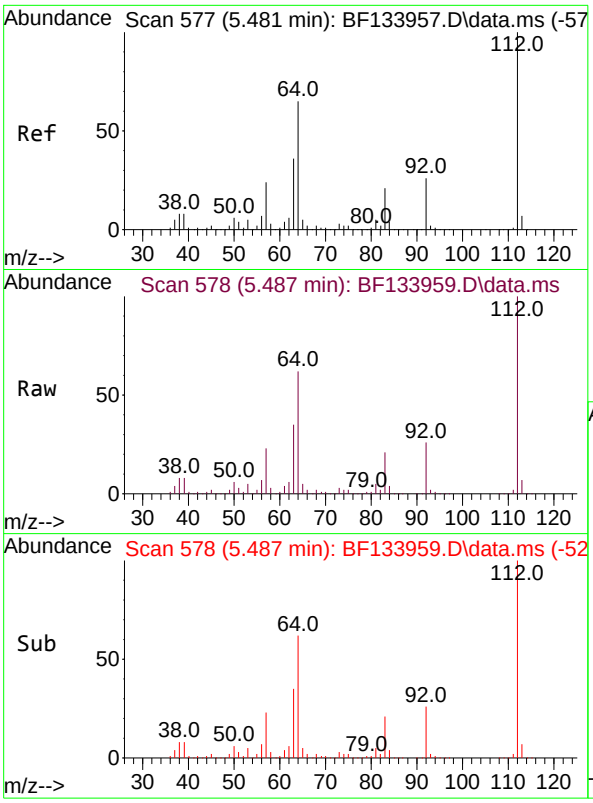


#4
n-Nitrosodimethylamine
Concen: 61.894 ng
RT: 3.393 min Scan# 222
Delta R.T. 0.012 min
Lab File: BF133959.D
Acq: 26 Jun 2023 18:47

Tgt Ion: 42 Resp: 264913

Ion	Ratio	Lower	Upper
42	100		
74	100.2	82.4	123.6
44	6.9	4.9	7.3

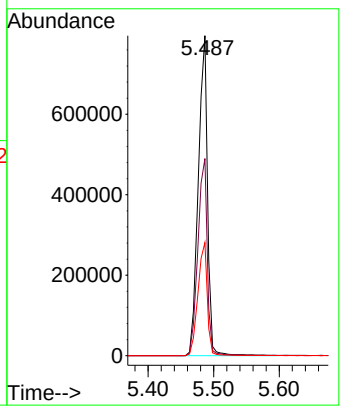




#5
2-Fluorophenol
Concen: 112.407 ng
RT: 5.487 min Scan# 5
Delta R.T. 0.006 min
Lab File: BF133959.D
Acq: 26 Jun 2023 18:47

Tgt Ion:112 Resp: 78433

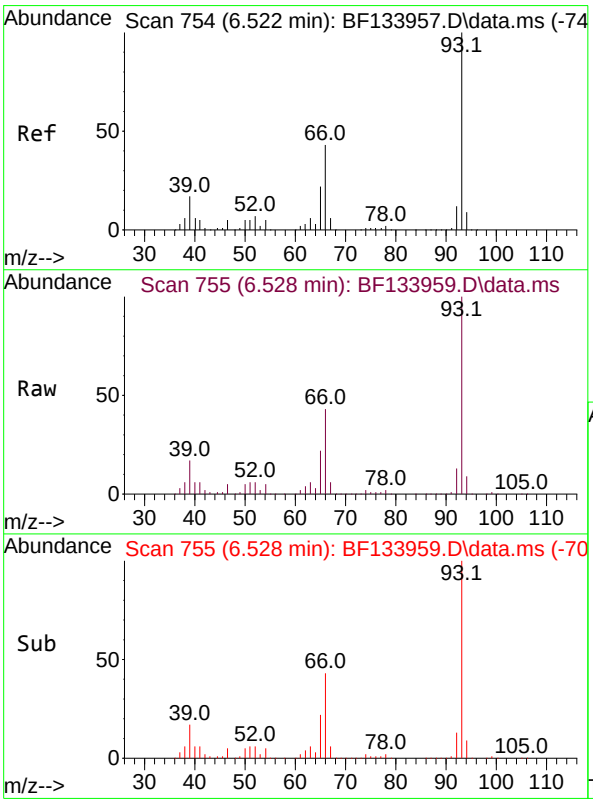
Ion	Ratio	Lower	Upper
112	100		
64	61.6	52.1	78.1
63	35.3	28.6	42.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

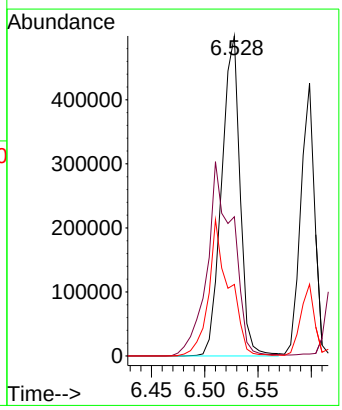
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

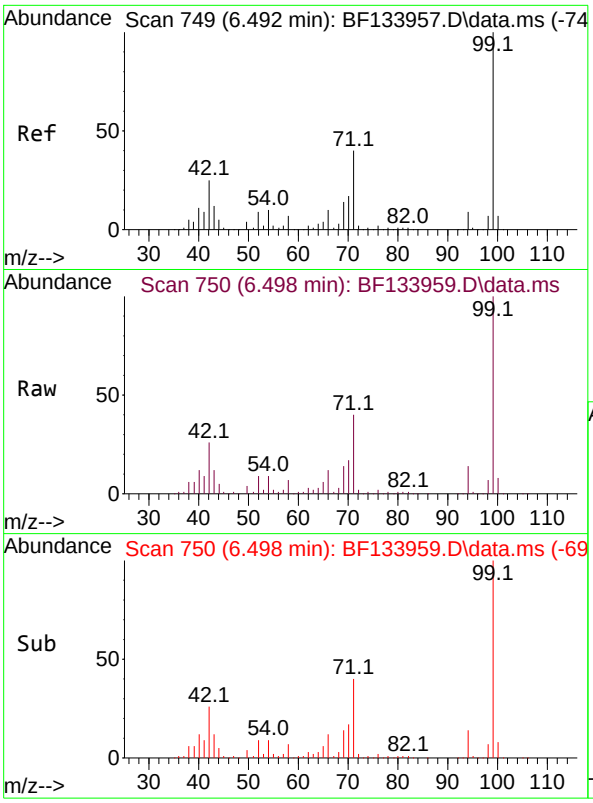


#6
Aniline
Concen: 57.307 ng
RT: 6.528 min Scan# 755
Delta R.T. 0.006 min
Lab File: BF133959.D
Acq: 26 Jun 2023 18:47

Tgt Ion: 93 Resp: 598403

Ion	Ratio	Lower	Upper
93	100		
66	43.5	34.5	51.7
65	22.3	17.8	26.6

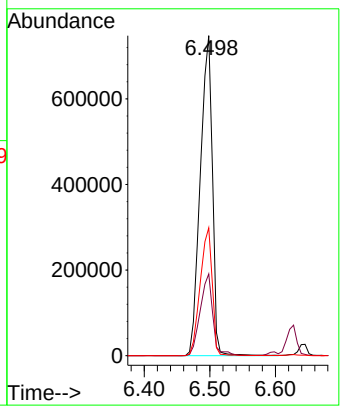




#7
Phenol-d6
Concen: 112.380 ng
RT: 6.498 min Scan# 7
Delta R.T. 0.006 min
Lab File: BF133959.D
Acq: 26 Jun 2023 18:47

Tgt Ion: 99 Resp: 96433

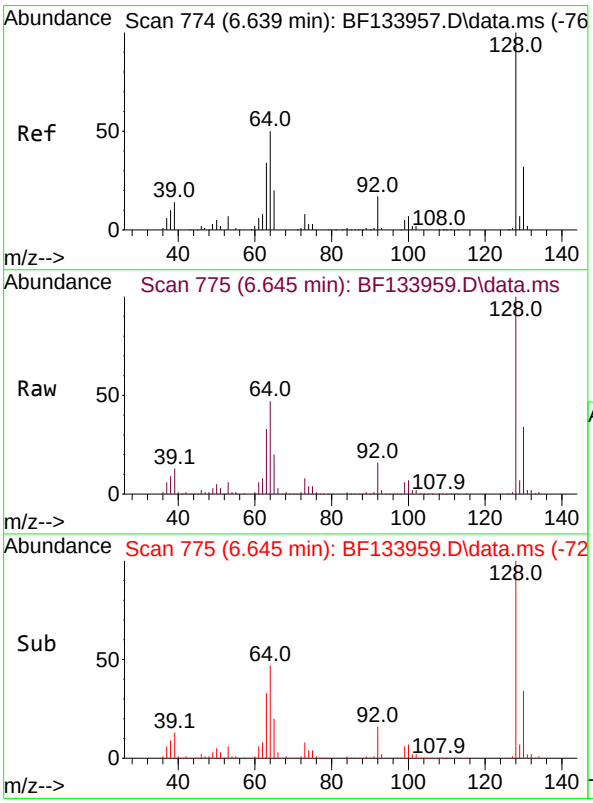
Ion	Ratio	Lower	Upper
99	100		
42	25.5	19.8	29.6
71	40.0	31.9	47.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

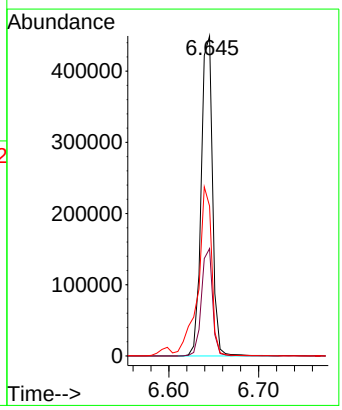
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

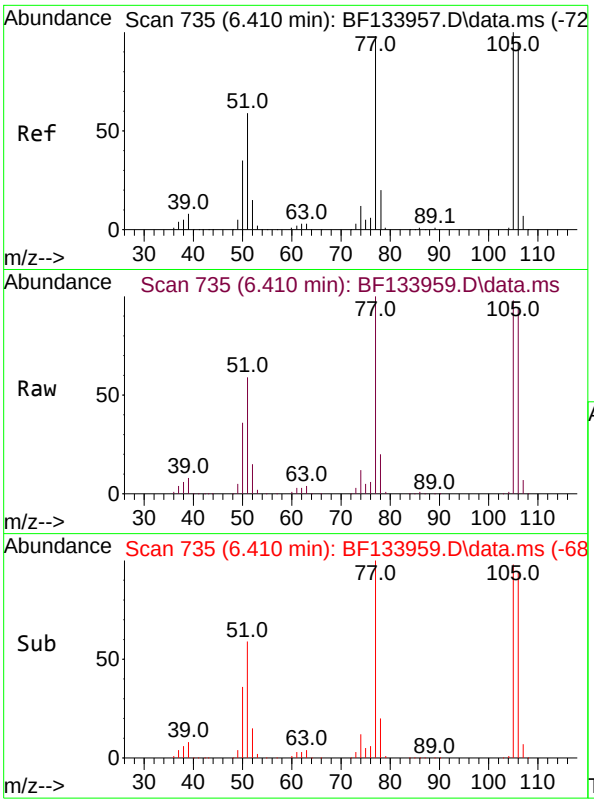


#8
2-Chlorophenol
Concen: 55.385 ng
RT: 6.645 min Scan# 775
Delta R.T. 0.006 min
Lab File: BF133959.D
Acq: 26 Jun 2023 18:47

Tgt Ion:128 Resp: 392298

Ion	Ratio	Lower	Upper
128	100		
130	33.6	11.7	51.7
64	46.9	31.3	71.3

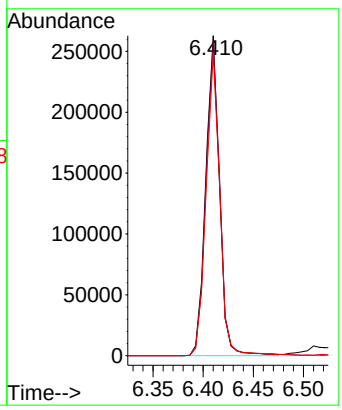




#9
Benzaldehyde
Concen: 62.038 ng
RT: 6.410 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF133959.D
Acq: 26 Jun 2023 18:47

Tgt Ion: 77 Resp: 25183

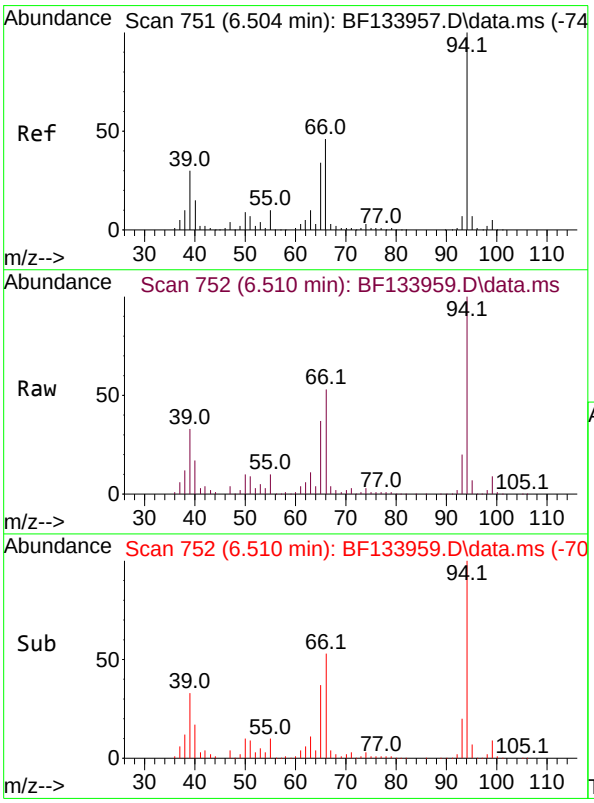
Ion	Ratio	Lower	Upper
77	100		
105	98.1	82.0	122.0
106	94.2	76.9	116.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

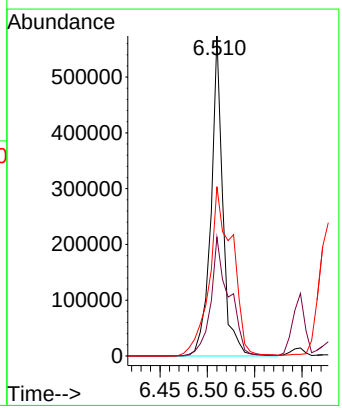
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

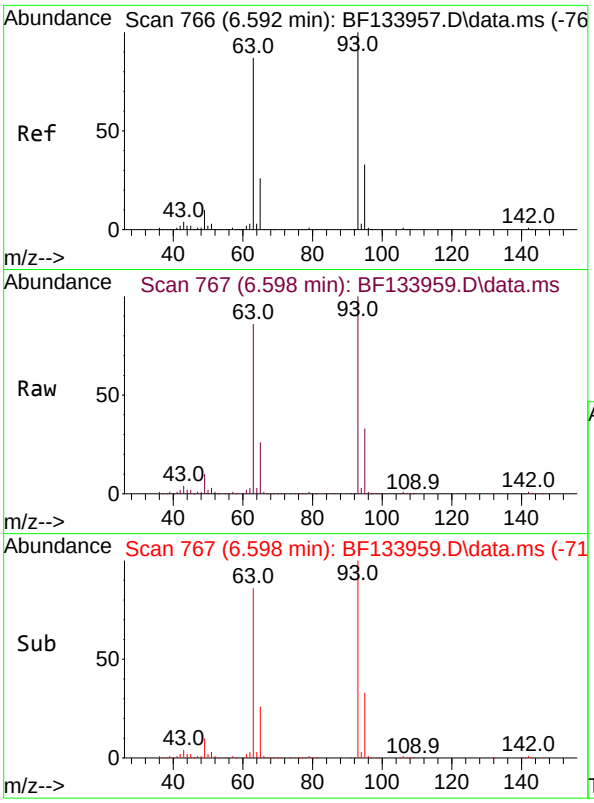


#10
Phenol
Concen: 55.402 ng
RT: 6.510 min Scan# 752
Delta R.T. 0.006 min
Lab File: BF133959.D
Acq: 26 Jun 2023 18:47

Tgt Ion: 94 Resp: 499860

Ion	Ratio	Lower	Upper
94	100		
65	37.1	14.2	54.2
66	52.9	26.4	66.4

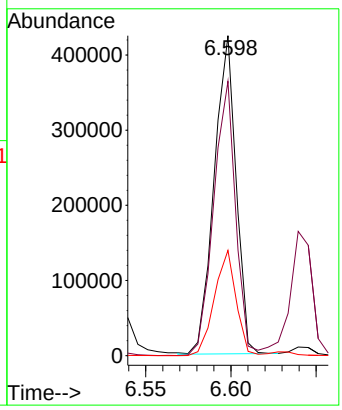




#11
bis(2-Chloroethyl)ether
Concen: 56.991 ng
RT: 6.598 min Scan# 7
Delta R.T. 0.006 min
Lab File: BF133959.D
Acq: 26 Jun 2023 18:47

Tgt Ion: 93 Resp: 37855

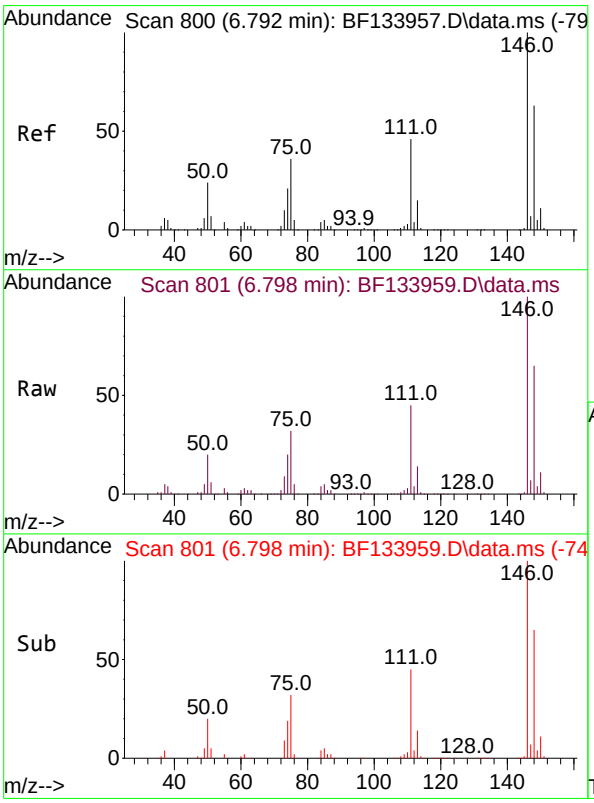
Ion	Ratio	Lower	Upper
93	100		
63	85.7	66.5	106.5
95	32.9	12.9	52.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

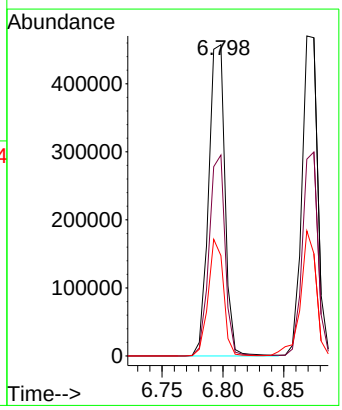
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

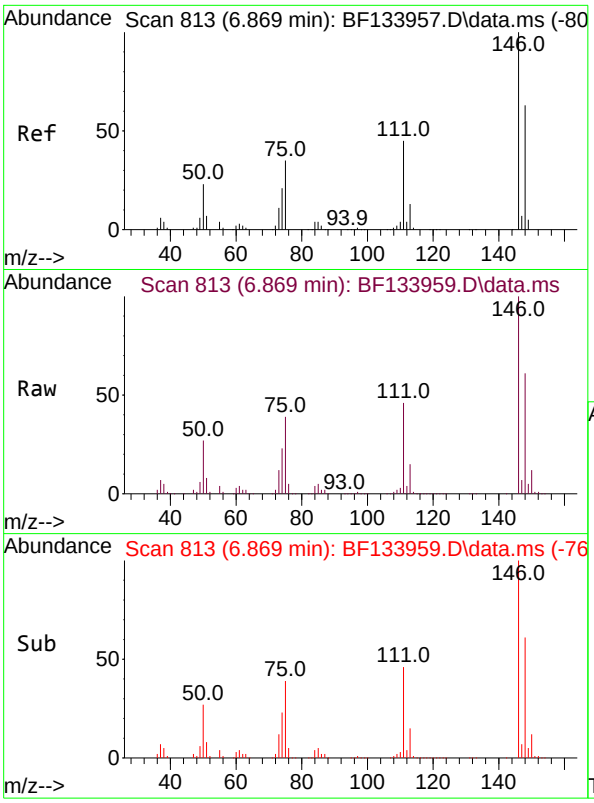


#12
1,3-Dichlorobenzene
Concen: 56.818 ng
RT: 6.798 min Scan# 801
Delta R.T. 0.006 min
Lab File: BF133959.D
Acq: 26 Jun 2023 18:47

Tgt Ion:146 Resp: 429059

Ion	Ratio	Lower	Upper
146	100		
148	64.6	50.5	75.7
75	32.2	29.0	43.6

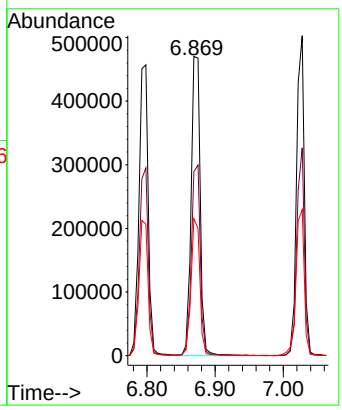




#13
1,4-Dichlorobenzene
Concen: 56.500 ng
RT: 6.869 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF133959.D
Acq: 26 Jun 2023 18:47

Tgt Ion:146 Resp: 43093

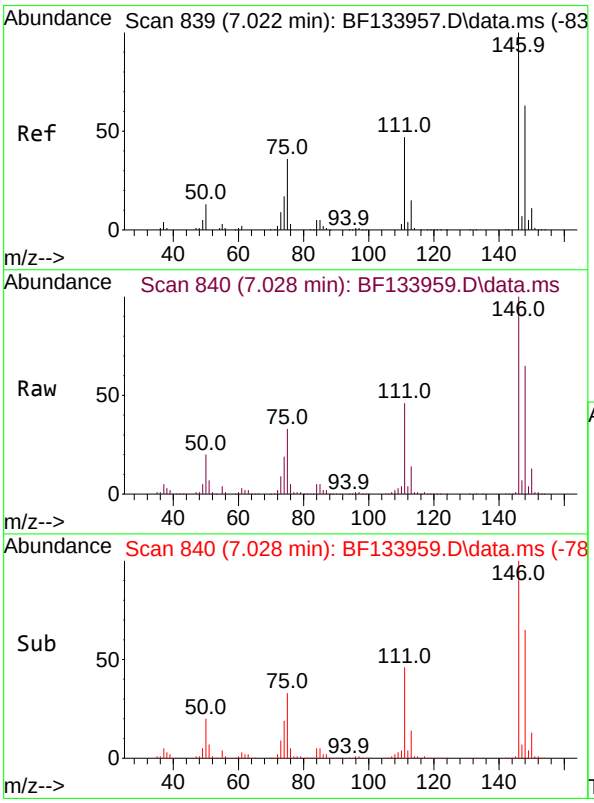
Ion	Ratio	Lower	Upper
146	100		
148	61.5	50.2	75.2
111	45.8	35.8	53.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

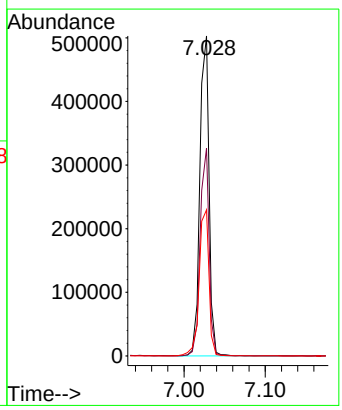
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

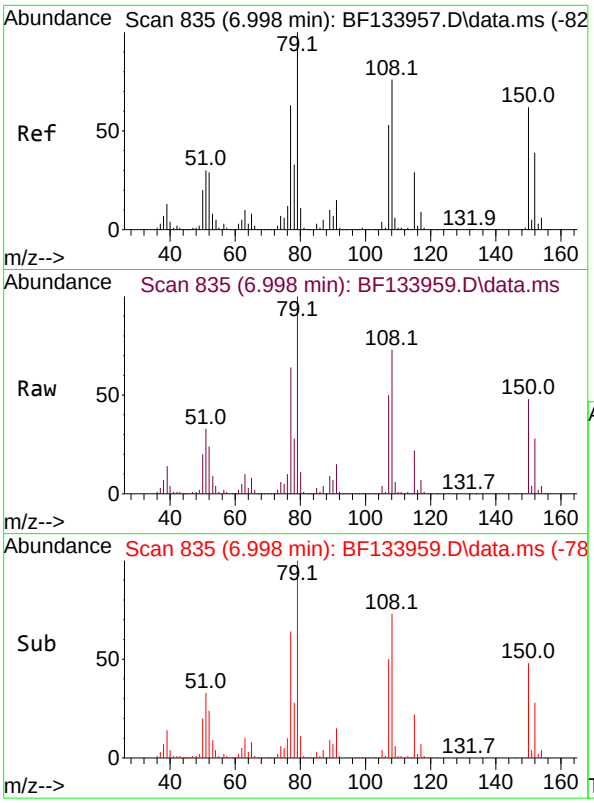


#14
1,2-Dichlorobenzene
Concen: 55.266 ng
RT: 7.028 min Scan# 840
Delta R.T. 0.006 min
Lab File: BF133959.D
Acq: 26 Jun 2023 18:47

Tgt Ion:146 Resp: 394778

Ion	Ratio	Lower	Upper
146	100		
148	64.9	50.6	76.0
111	45.6	38.0	57.0





#15
Benzyl Alcohol
Concen: 57.385 ng
RT: 6.998 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF133959.D
Acq: 26 Jun 2023 18:47

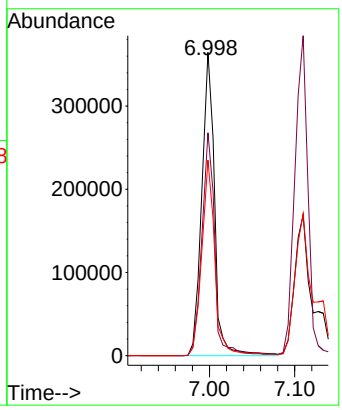
Tgt Ion: 79 Resp: 37961

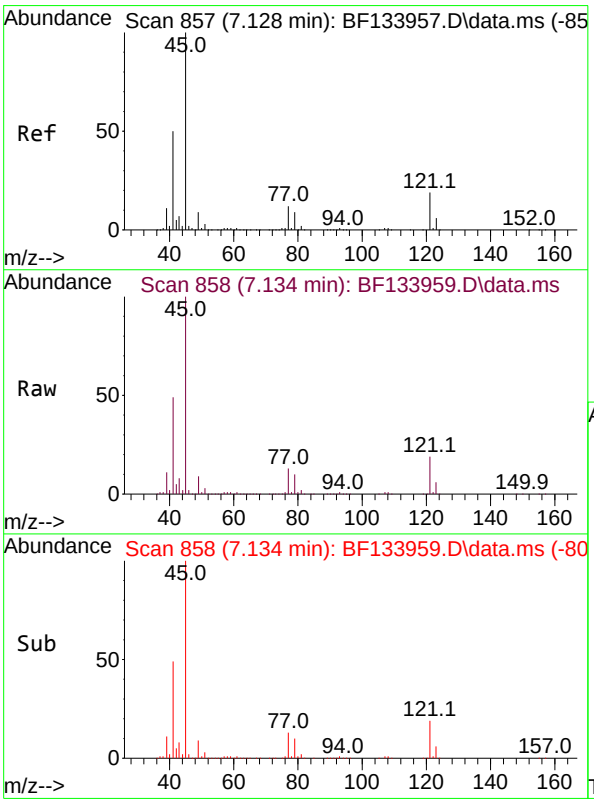
Ion	Ratio	Lower	Upper
79	100		
108	73.5	60.7	91.1
77	64.4	50.6	75.8

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

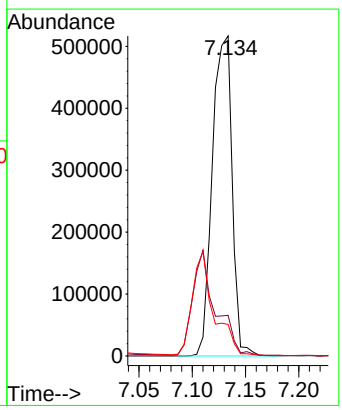


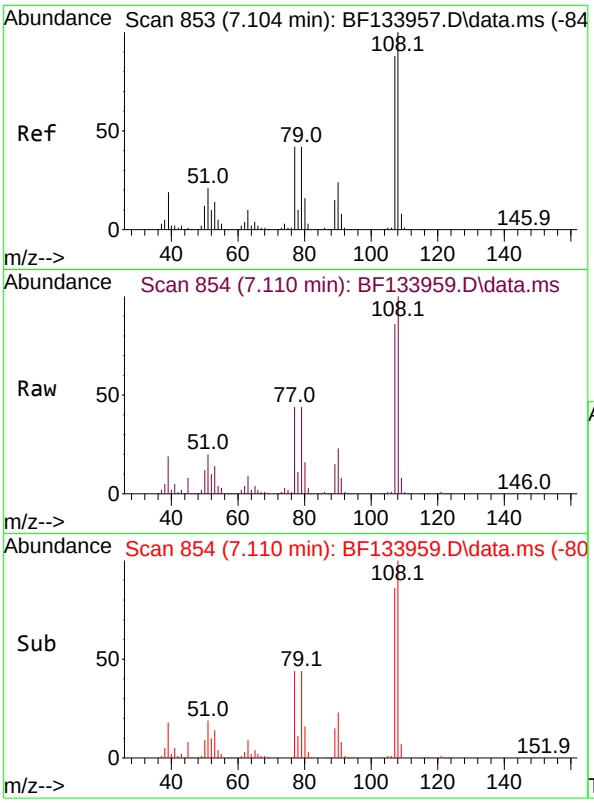


#16
2,2'-oxybis(1-Chloropropane)
Concen: 56.551 ng
RT: 7.134 min Scan# 858
Delta R.T. 0.006 min
Lab File: BF133959.D
Acq: 26 Jun 2023 18:47

Tgt Ion: 45 Resp: 664550

Ion	Ratio	Lower	Upper
45	100		
77	12.7	0.0	32.9
79	9.9	0.0	29.5

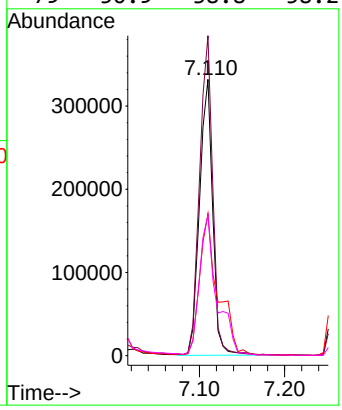




#17
2-Methylphenol
Concen: 56.187 ng
RT: 7.110 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF133959.D
Acq: 26 Jun 2023 18:47

Tgt Ion:107 Resp: 35638

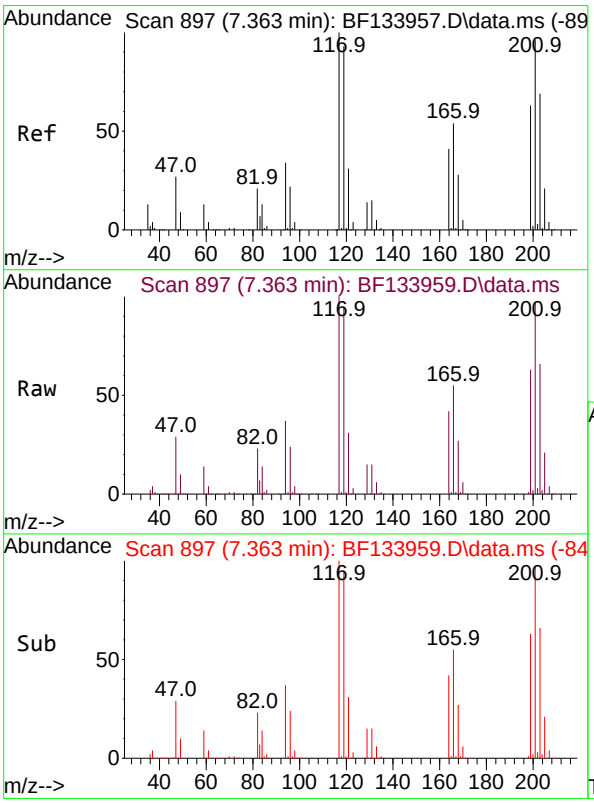
Ion	Ratio	Lower	Upper
107	100		
108	115.8	90.6	136.0
77	51.4	38.3	57.5
79	50.9	38.8	58.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

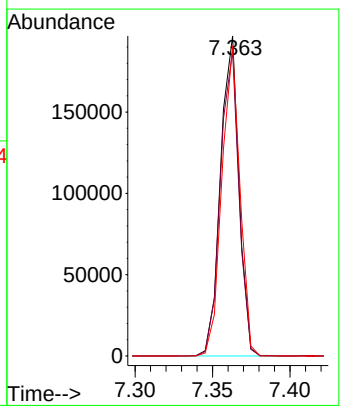
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

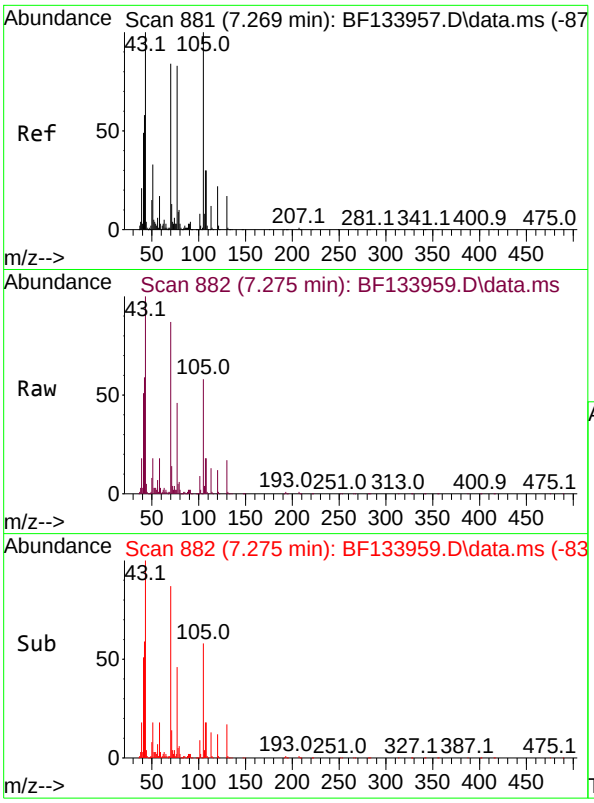


#18
Hexachloroethane
Concen: 57.370 ng
RT: 7.363 min Scan# 897
Delta R.T. 0.000 min
Lab File: BF133959.D
Acq: 26 Jun 2023 18:47

Tgt Ion:117 Resp: 162248

Ion	Ratio	Lower	Upper
117	100		
119	95.3	74.2	111.4
201	96.9	77.2	115.8

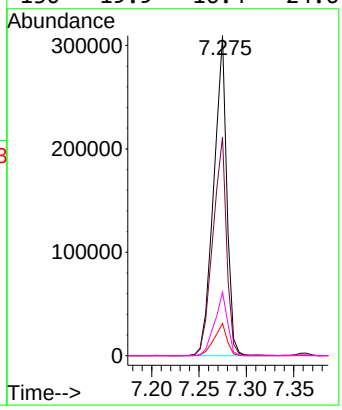




#19
n-Nitroso-di-n-propylamine
Concen: 54.645 ng
RT: 7.275 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF133959.D
Acq: 26 Jun 2023 18:47

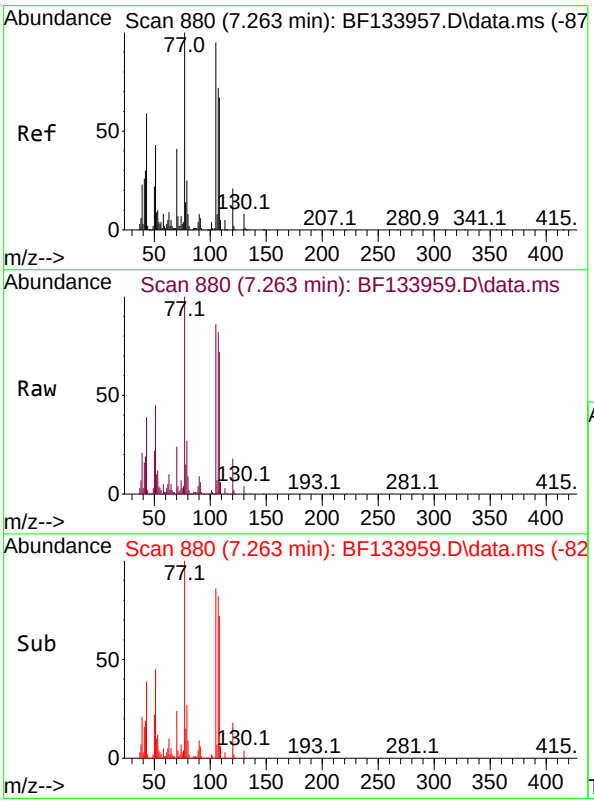
Tgt Ion: 70 Resp: 29736

Ion	Ratio	Lower	Upper
70	100		
42	68.3	54.7	82.1
101	10.1	7.7	11.5
130	19.9	16.4	24.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

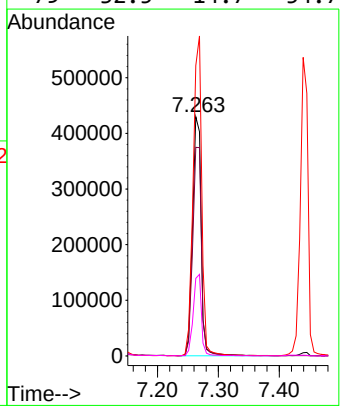
Manual Integrations APPROVED
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

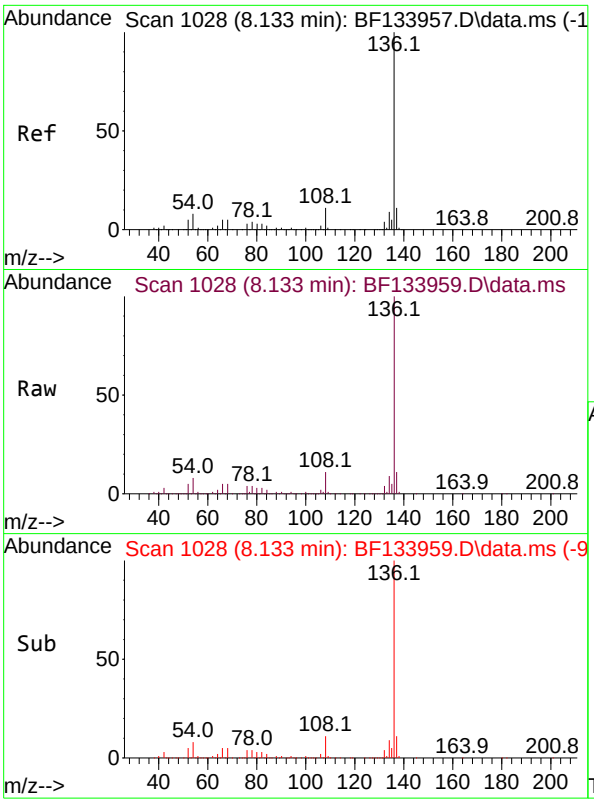


#20
3+4-Methylphenols
Concen: 54.603 ng
RT: 7.263 min Scan# 880
Delta R.T. 0.000 min
Lab File: BF133959.D
Acq: 26 Jun 2023 18:47

Tgt Ion:107 Resp: 420161

Ion	Ratio	Lower	Upper
107	100		
108	87.2	73.2	113.2
77	121.4	118.3	158.3
79	32.5	14.7	54.7

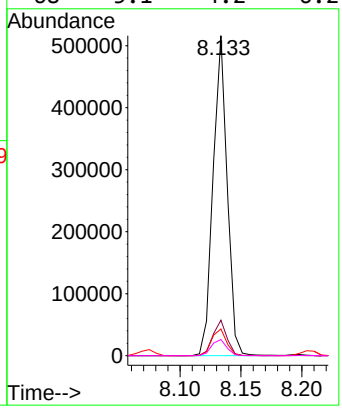




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.133 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF133959.D
Acq: 26 Jun 2023 18:47

Tgt Ion:136 Resp: 41534

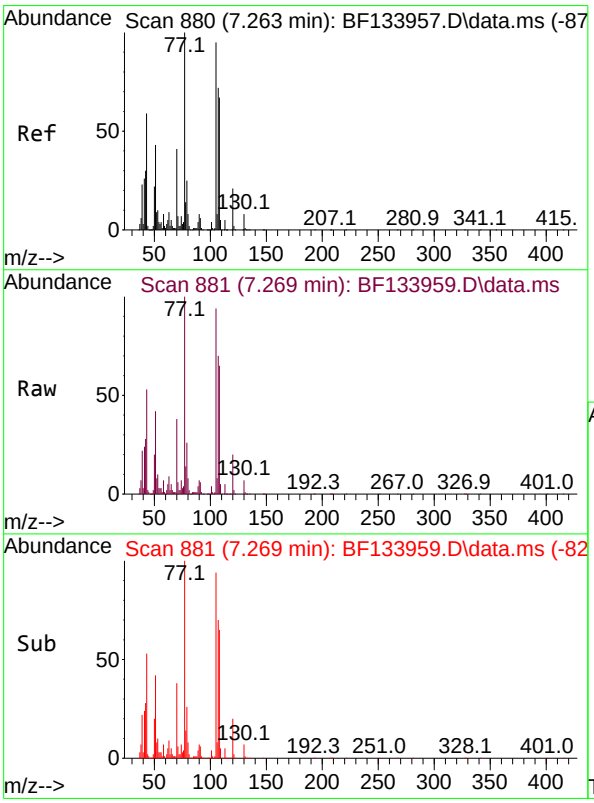
Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.6	12.8
54	8.3	6.5	9.7
68	5.1	4.2	6.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

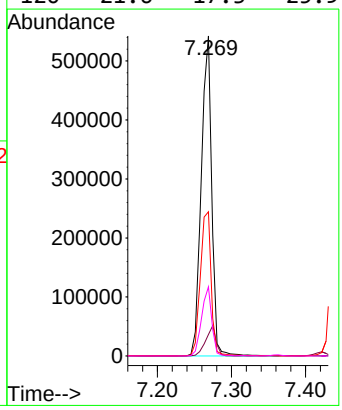
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

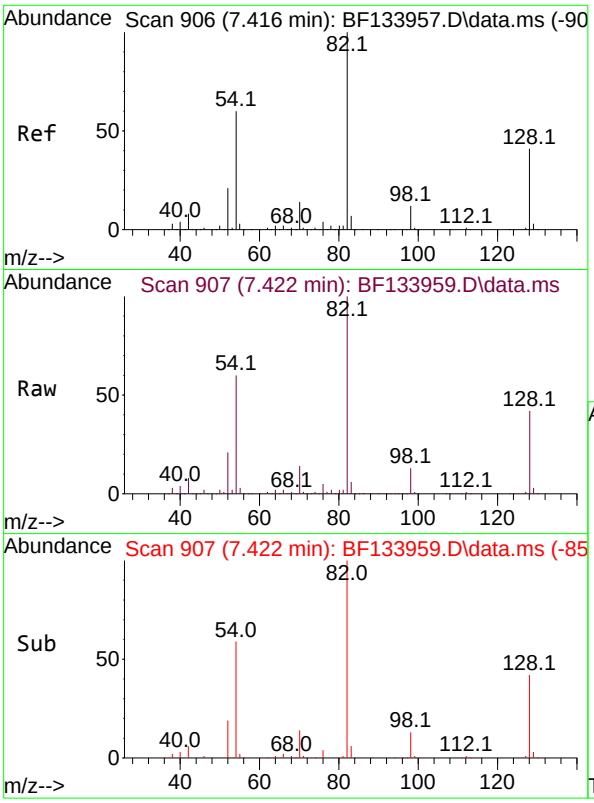


#22
Acetophenone
Concen: 56.440 ng
RT: 7.269 min Scan# 881
Delta R.T. 0.006 min
Lab File: BF133959.D
Acq: 26 Jun 2023 18:47

Tgt Ion:105 Resp: 533128

Ion	Ratio	Lower	Upper
105	100		
71	6.7	5.5	8.3
51	45.1	36.5	54.7
120	21.6	17.3	25.9

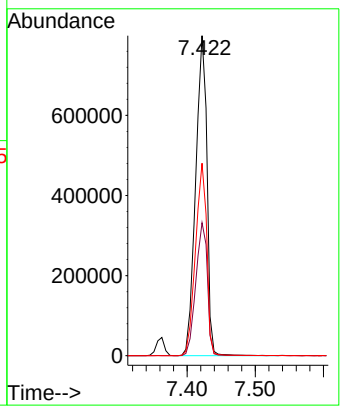




#23
Nitrobenzene-d5
Concen: 119.422 ng
RT: 7.422 min Scan# 9
Delta R.T. 0.006 min
Lab File: BF133959.D
Acq: 26 Jun 2023 18:47

Tgt Ion: 82 Resp: 92015

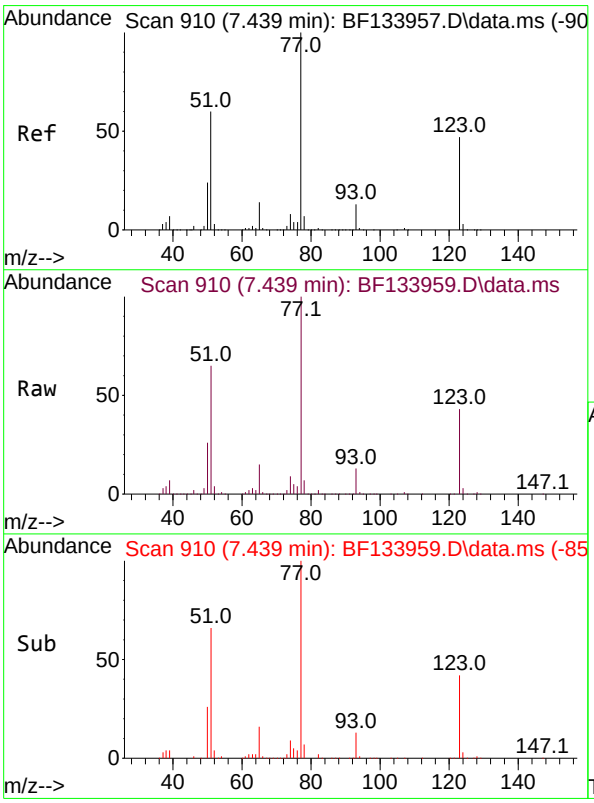
Ion	Ratio	Lower	Upper
82	100		
128	41.6	32.5	48.7
54	60.1	48.2	72.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

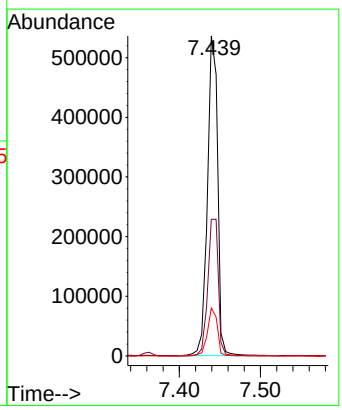
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

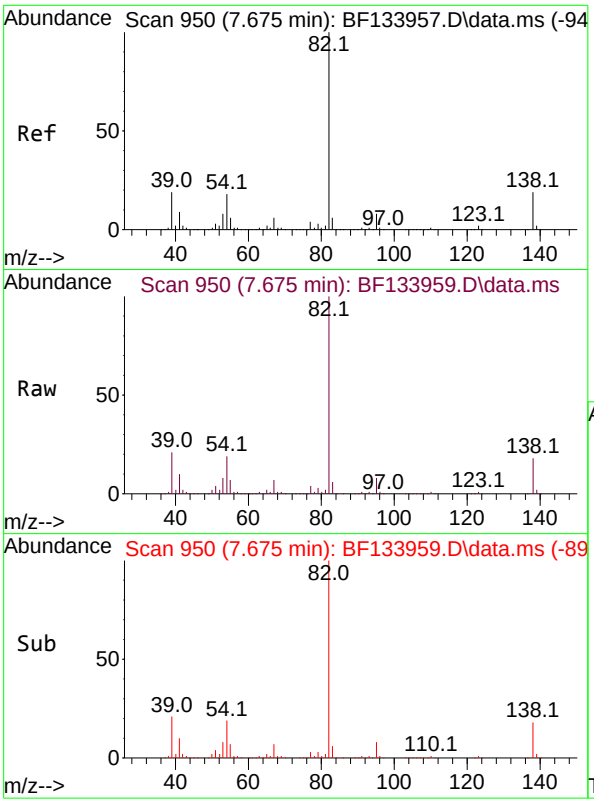


#24
Nitrobenzene
Concen: 59.960 ng
RT: 7.439 min Scan# 910
Delta R.T. 0.000 min
Lab File: BF133959.D
Acq: 26 Jun 2023 18:47

Tgt Ion: 77 Resp: 466861

Ion	Ratio	Lower	Upper
77	100		
123	42.7	37.8	56.6
65	15.0	11.3	16.9

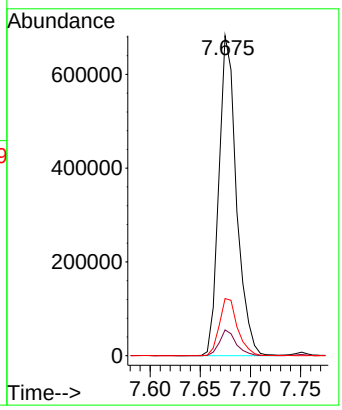




#25
Isophorone
Concen: 59.393 ng
RT: 7.675 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF133959.D
Acq: 26 Jun 2023 18:47

Tgt Ion: 82 Resp: 83170

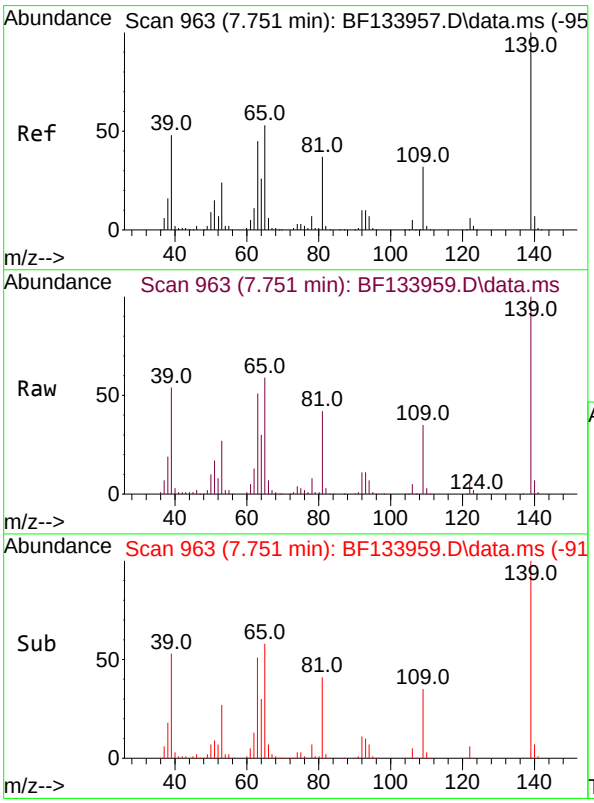
Ion	Ratio	Lower	Upper
82	100		
95	8.1	6.1	9.1
138	17.9	15.2	22.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

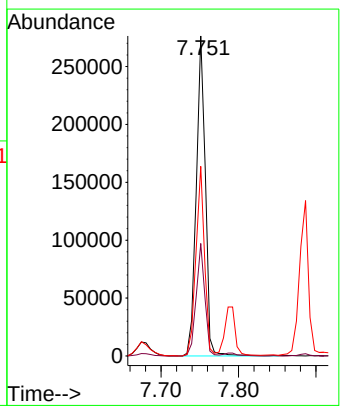
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

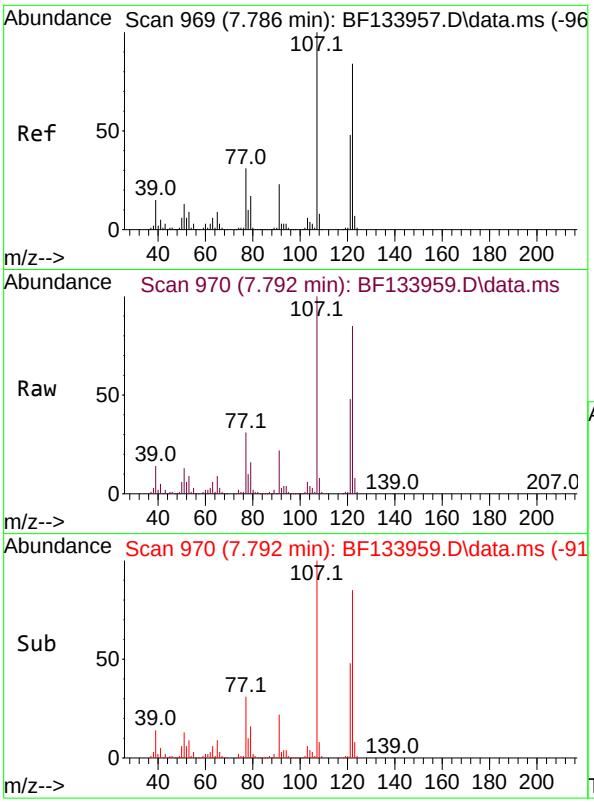


#26
2-Nitrophenol
Concen: 60.502 ng
RT: 7.751 min Scan# 963
Delta R.T. 0.000 min
Lab File: BF133959.D
Acq: 26 Jun 2023 18:47

Tgt Ion:139 Resp: 225985

Ion	Ratio	Lower	Upper
139	100		
109	35.2	25.8	38.8
65	59.3	42.4	63.6

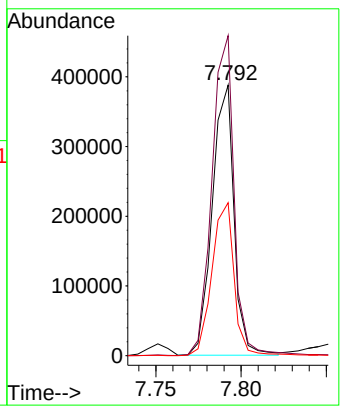




#27
2,4-Dimethylphenol
Concen: 58.233 ng
RT: 7.792 min Scan# 9
Delta R.T. 0.006 min
Lab File: BF133959.D
Acq: 26 Jun 2023 18:47

Tgt Ion:122 Resp: 34429

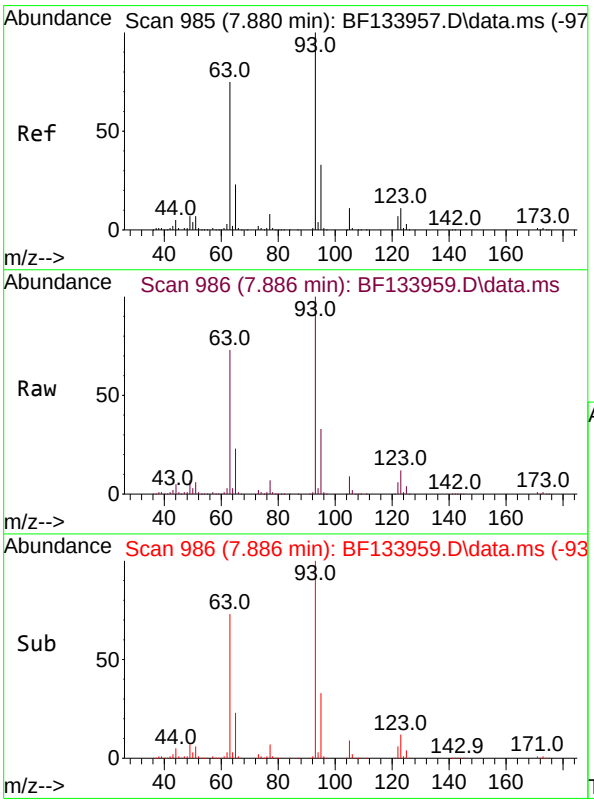
Ion	Ratio	Lower	Upper
122	100		
107	118.3	95.5	143.3
121	56.5	45.5	68.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

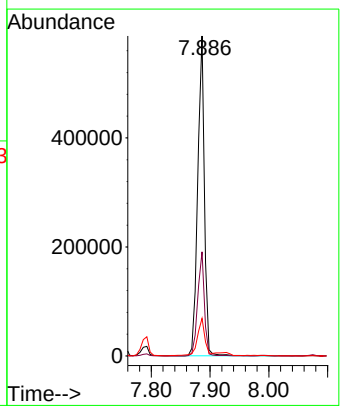
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

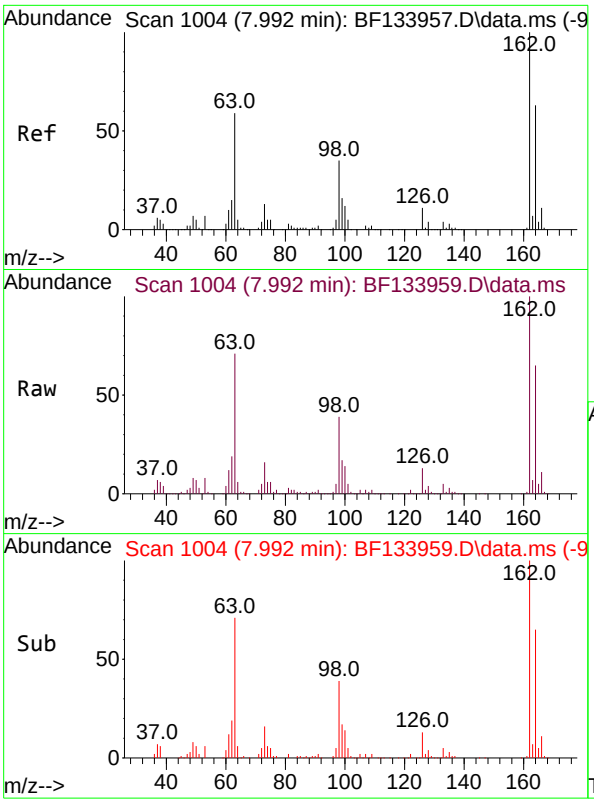


#28
bis(2-Chloroethoxy)methane
Concen: 57.463 ng
RT: 7.886 min Scan# 986
Delta R.T. 0.006 min
Lab File: BF133959.D
Acq: 26 Jun 2023 18:47

Tgt Ion: 93 Resp: 465936

Ion	Ratio	Lower	Upper
93	100		
95	32.5	26.5	39.7
123	11.7	9.1	13.7

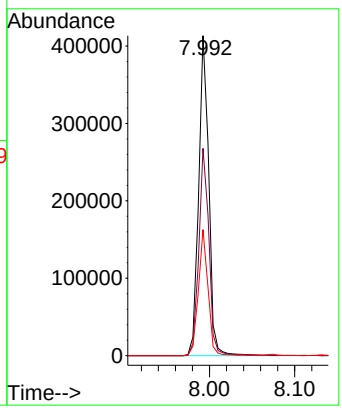




#29
2,4-Dichlorophenol
Concen: 58.153 ng
RT: 7.992 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF133959.D
Acq: 26 Jun 2023 18:47

Tgt Ion:162 Resp: 34094

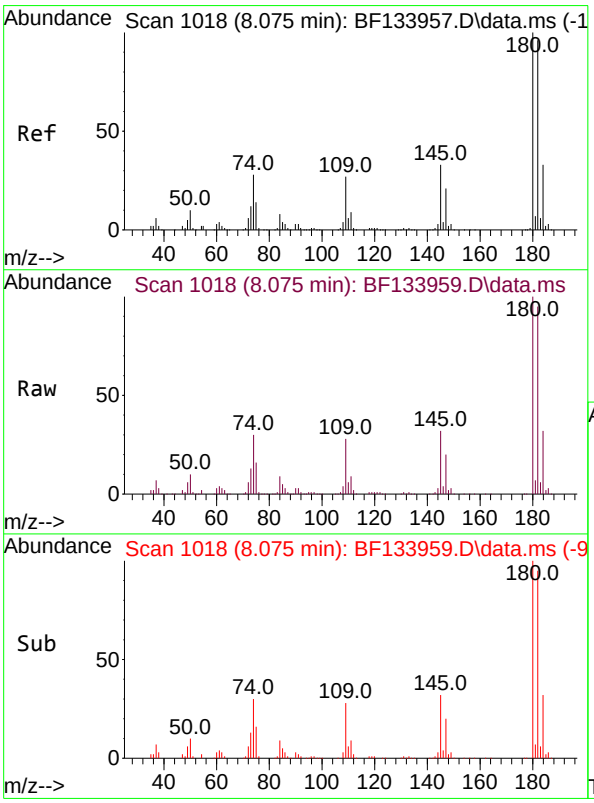
Ion	Ratio	Lower	Upper
162	100		
164	64.8	43.2	83.2
98	39.4	14.9	54.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

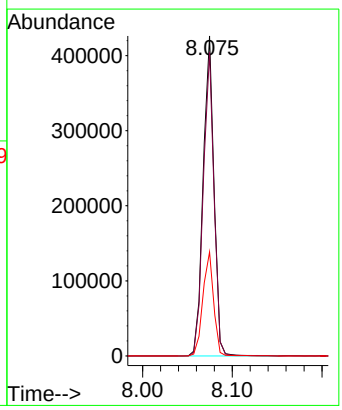
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

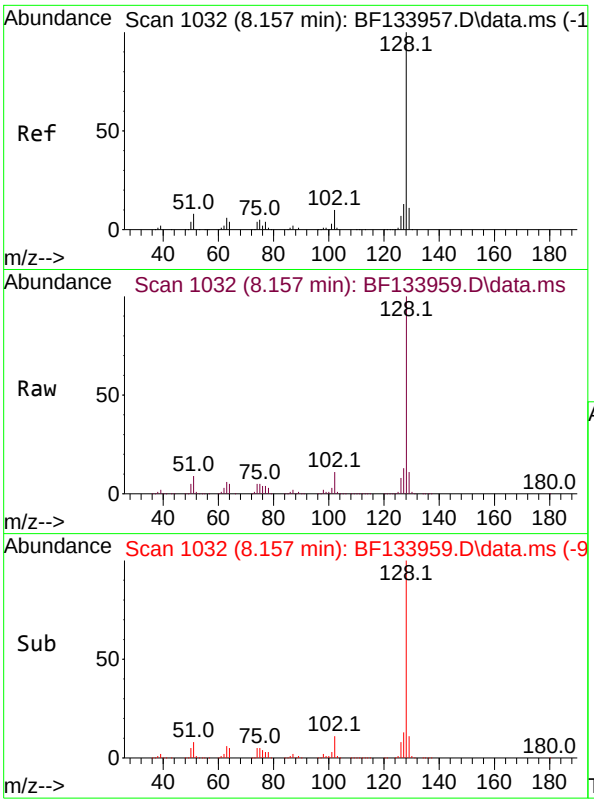


#30
1,2,4-Trichlorobenzene
Concen: 58.862 ng
RT: 8.075 min Scan# 1018
Delta R.T. 0.000 min
Lab File: BF133959.D
Acq: 26 Jun 2023 18:47

Tgt Ion:180 Resp: 356092

Ion	Ratio	Lower	Upper
180	100		
182	94.9	77.1	115.7
145	32.5	26.0	39.0

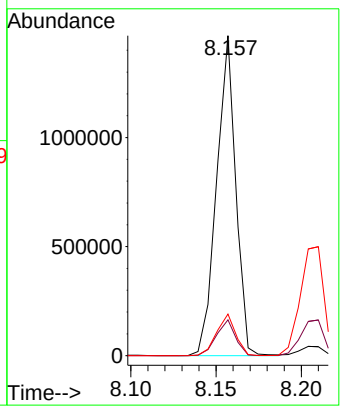




#31
Naphthalene
Concen: 57.357 ng
RT: 8.157 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF133959.D
Acq: 26 Jun 2023 18:47

Tgt Ion:128 Resp: 115072

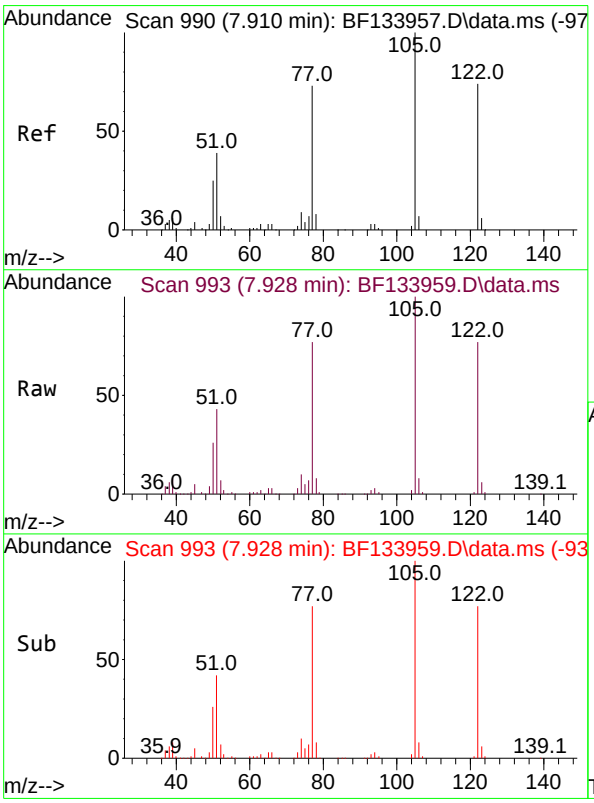
Ion	Ratio	Lower	Upper
128	100		
129	11.2	8.7	13.1
127	13.0	10.6	15.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

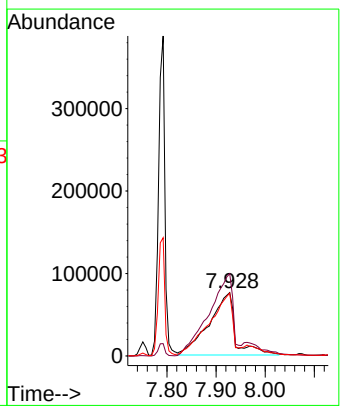
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

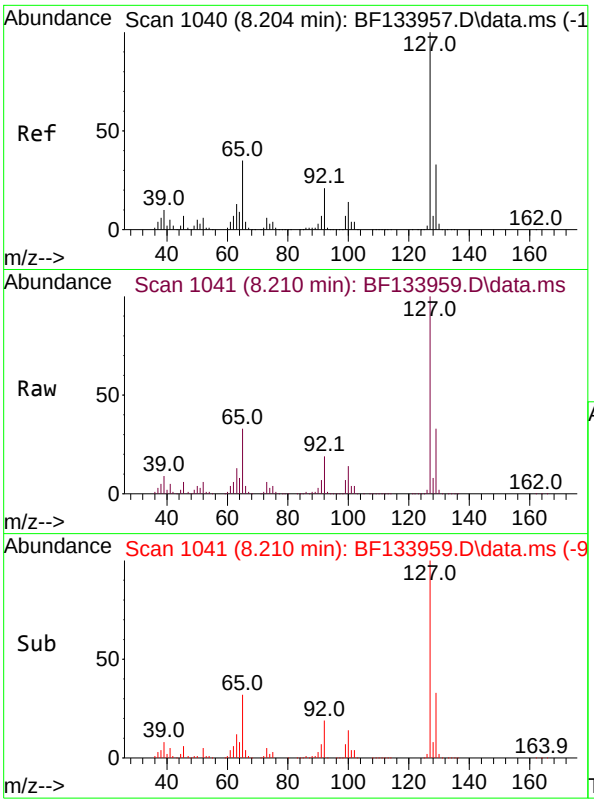


#32
Benzoic acid
Concen: 65.199 ng m
RT: 7.928 min Scan# 993
Delta R.T. 0.018 min
Lab File: BF133959.D
Acq: 26 Jun 2023 18:47

Tgt Ion:122 Resp: 283269

Ion	Ratio	Lower	Upper
122	100		
105	129.6	109.7	149.7
77	99.3	76.0	116.0

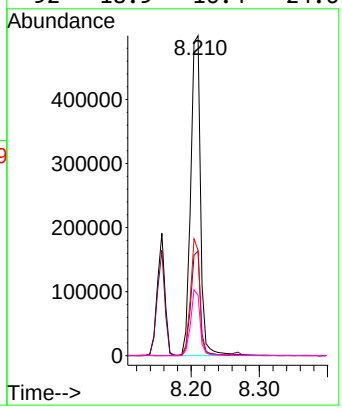




#33
4-Chloroaniline
Concen: 58.247 ng
RT: 8.210 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF133959.D
Acq: 26 Jun 2023 18:47

Tgt Ion:127 Resp: 49987

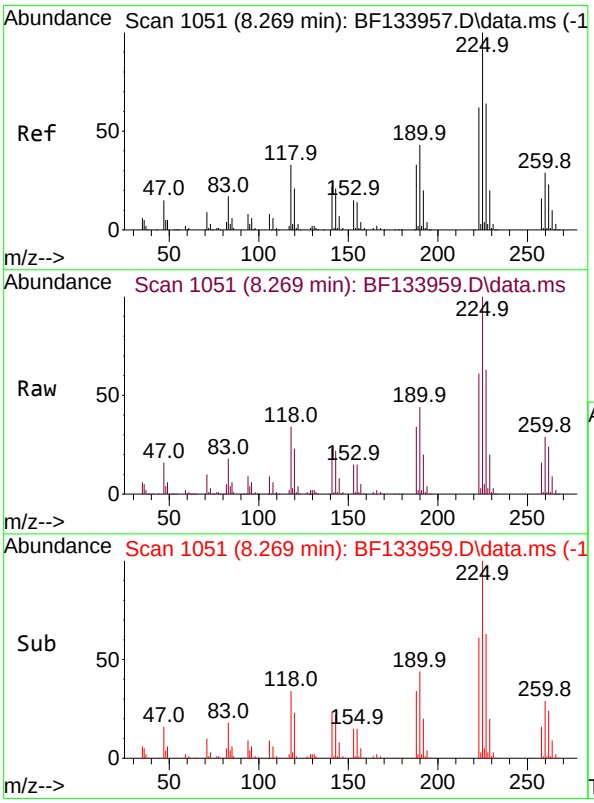
Ion	Ratio	Lower	Upper
127	100		
129	32.7	26.4	39.6
65	33.0	27.8	41.8
92	18.9	16.4	24.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

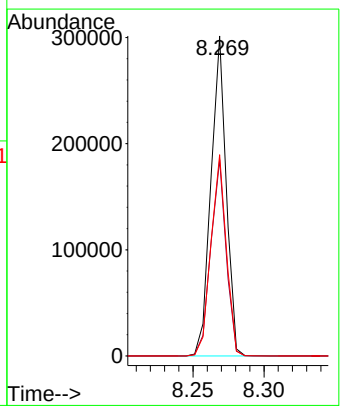
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

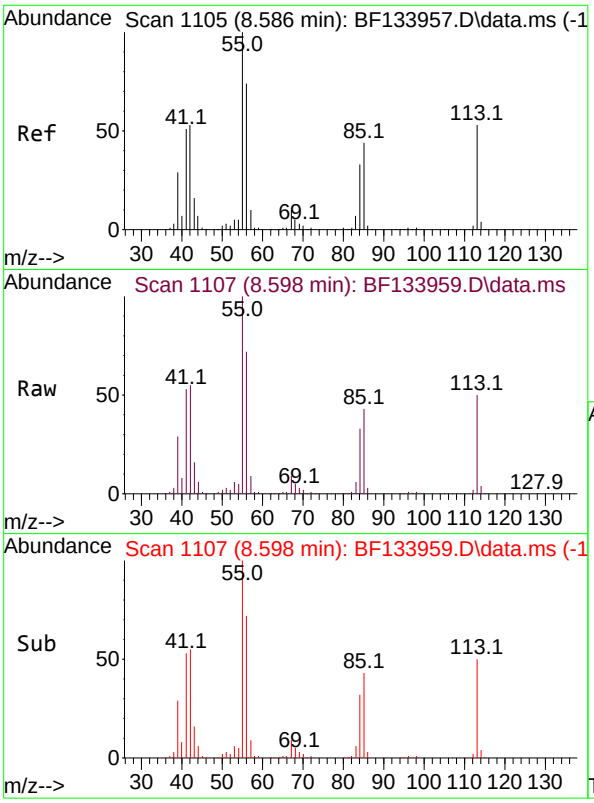


#34
Hexachlorobutadiene
Concen: 58.715 ng
RT: 8.269 min Scan# 1051
Delta R.T. 0.000 min
Lab File: BF133959.D
Acq: 26 Jun 2023 18:47

Tgt Ion:225 Resp: 224064

Ion	Ratio	Lower	Upper
225	100		
223	61.3	49.8	74.8
227	62.9	51.0	76.4

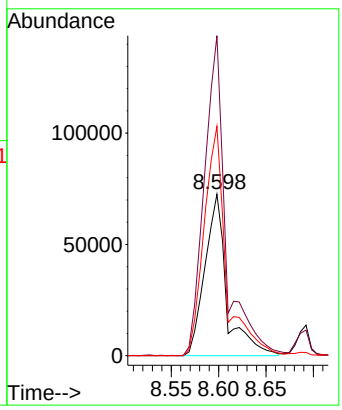




#35
Caprolactam
Concen: 60.390 ng
RT: 8.598 min Scan# 11
Delta R.T. 0.012 min
Lab File: BF133959.D
Acq: 26 Jun 2023 18:47

Tgt Ion:113 Resp: 11657

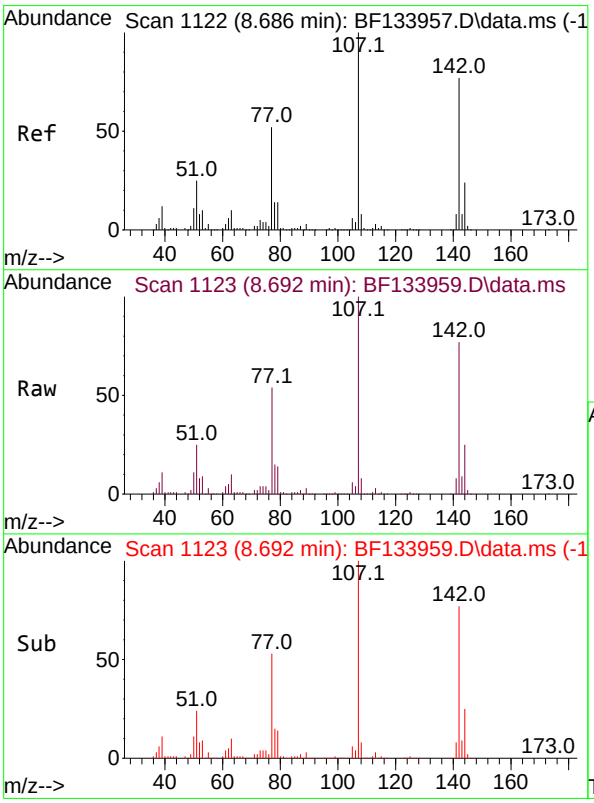
Ion	Ratio	Lower	Upper
113	100		
55	198.2	170.2	210.2
56	142.0	121.4	161.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

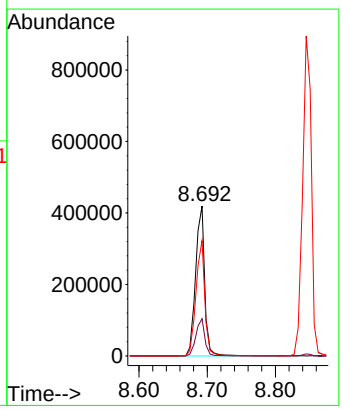
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

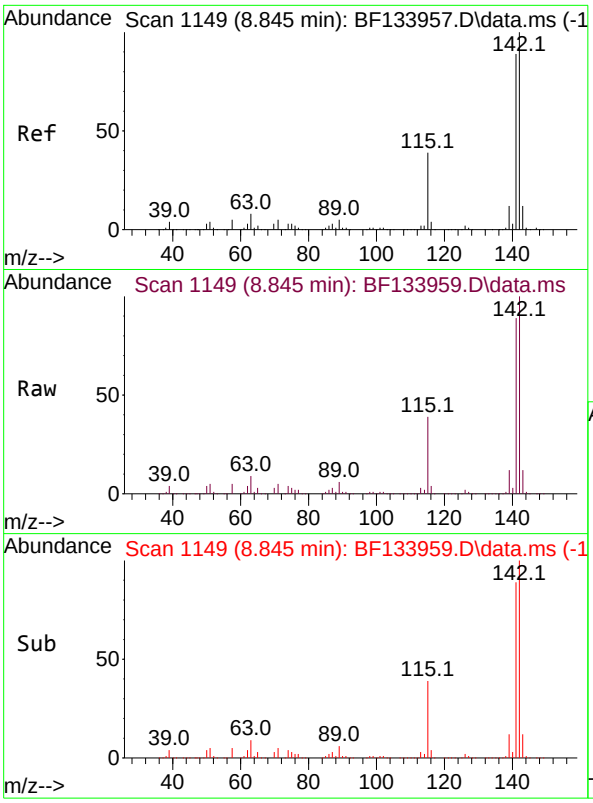


#36
4-Chloro-3-methylphenol
Concen: 58.597 ng
RT: 8.692 min Scan# 1123
Delta R.T. 0.006 min
Lab File: BF133959.D
Acq: 26 Jun 2023 18:47

Tgt Ion:107 Resp: 385941

Ion	Ratio	Lower	Upper
107	100		
144	24.9	19.6	29.4
142	76.9	61.4	92.2

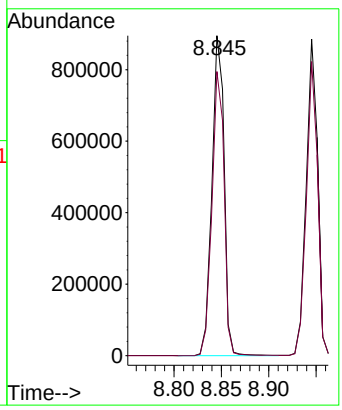




#37
2-Methylnaphthalene
Concen: 56.191 ng
RT: 8.845 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF133959.D
Acq: 26 Jun 2023 18:47

Tgt Ion:142 Resp: 79720

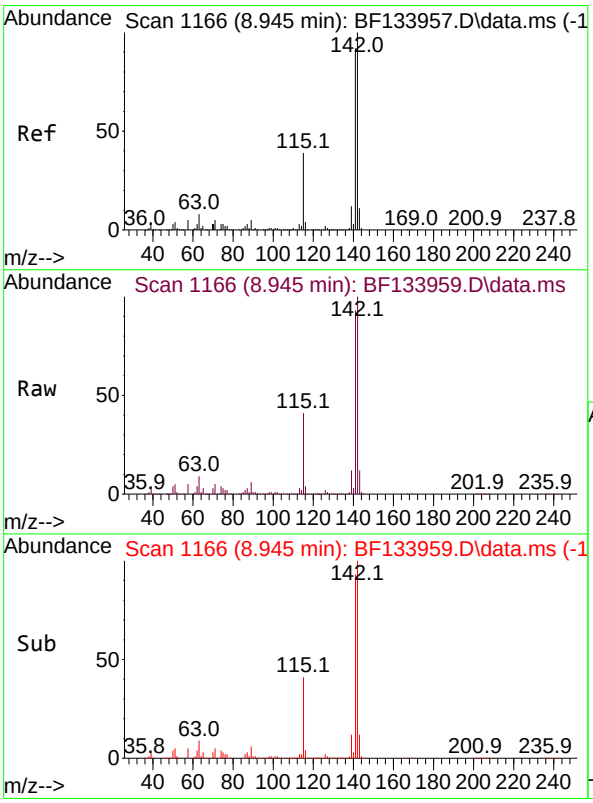
Ion	Ratio	Lower	Upper
142	100		
141	88.8	71.0	106.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

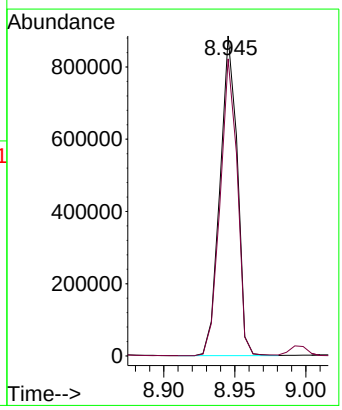
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

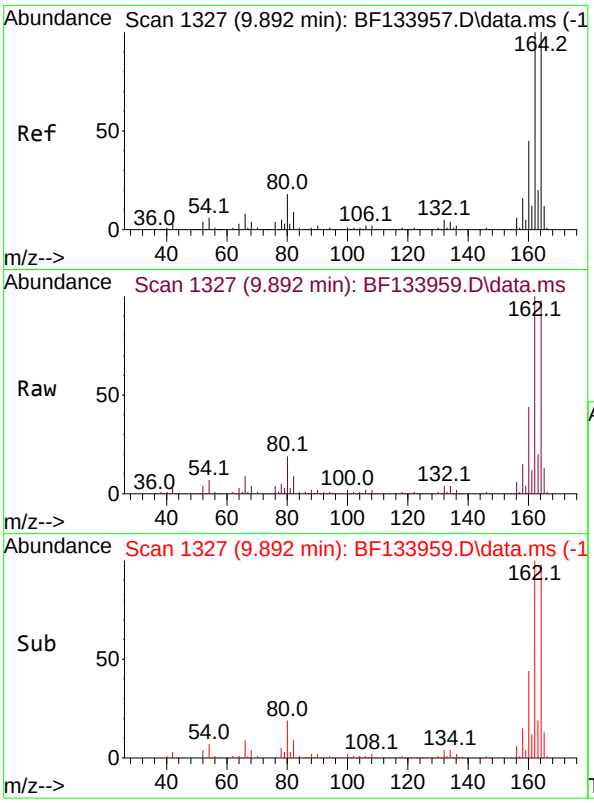


#38
1-Methylnaphthalene
Concen: 56.509 ng
RT: 8.945 min Scan# 1166
Delta R.T. 0.000 min
Lab File: BF133959.D
Acq: 26 Jun 2023 18:47

Tgt Ion:142 Resp: 745307

Ion	Ratio	Lower	Upper
142	100		
141	92.9	73.5	110.3

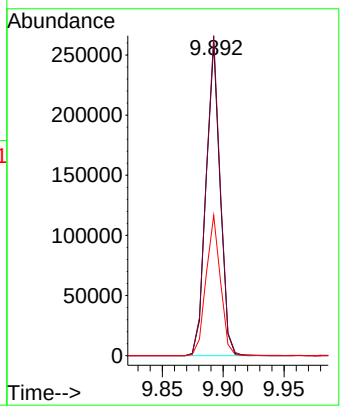




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.892 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF133959.D
Acq: 26 Jun 2023 18:47

Tgt Ion:164 Resp: 20872

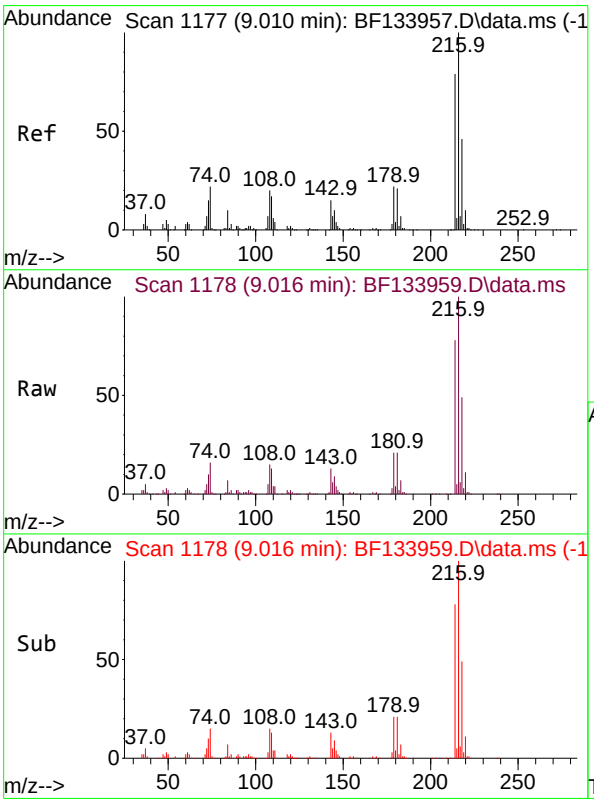
Ion	Ratio	Lower	Upper
164	100		
162	102.4	80.0	120.0
160	44.9	35.9	53.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

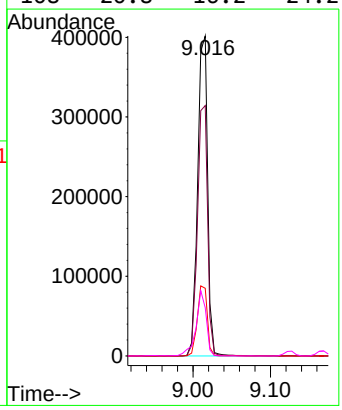
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

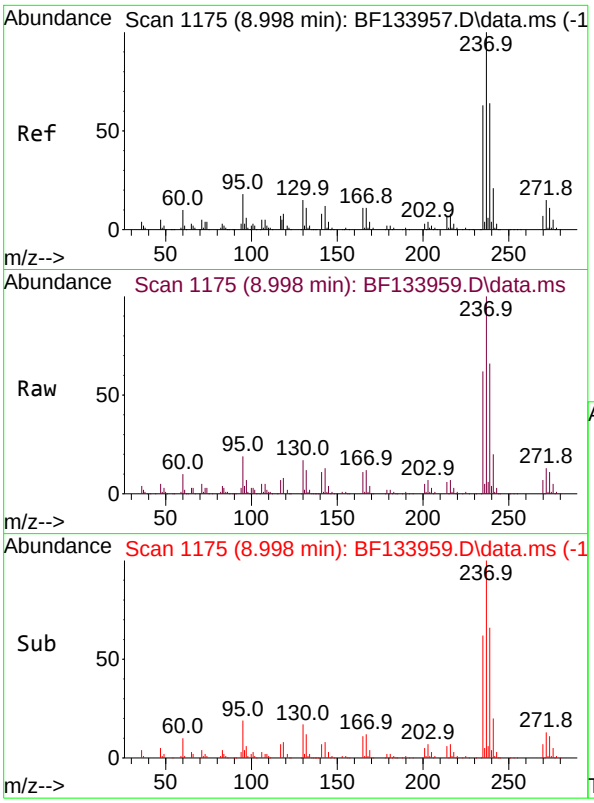


#40
1,2,4,5-Tetrachlorobenzene
Concen: 58.130 ng
RT: 9.016 min Scan# 1178
Delta R.T. 0.006 min
Lab File: BF133959.D
Acq: 26 Jun 2023 18:47

Tgt Ion:216 Resp: 359458

Ion	Ratio	Lower	Upper
216	100		
214	79.5	64.1	96.1
179	21.8	17.3	25.9
108	20.8	16.2	24.2





#41
Hexachlorocyclopentadiene
Concen: 66.071 ng
RT: 8.998 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF133959.D
Acq: 26 Jun 2023 18:47

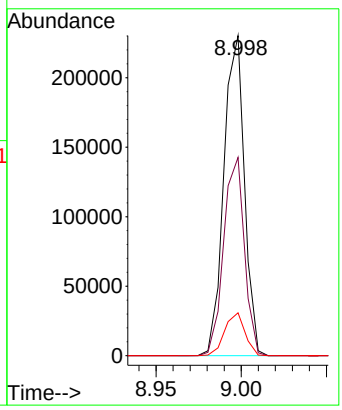
Instrument :
BNA_F
ClientSampleId :
SSTDICC060

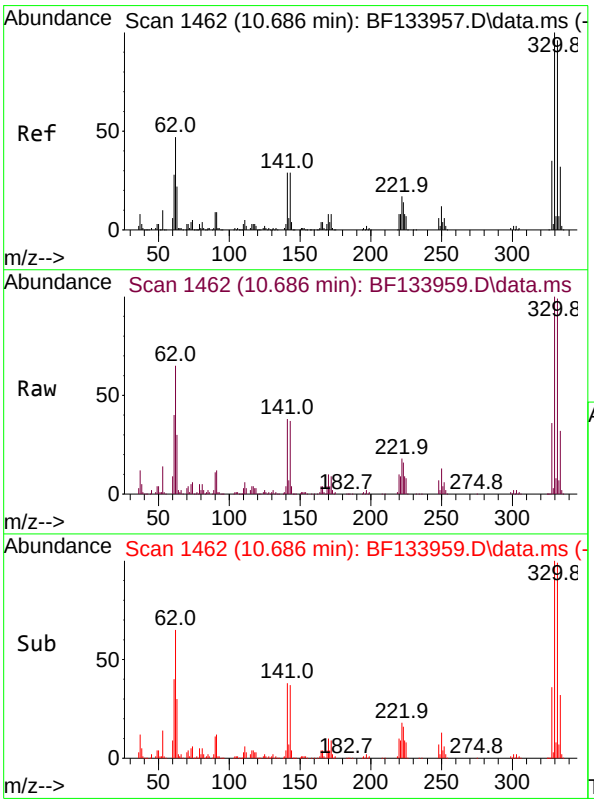
Tgt Ion:237 Resp: 19383

Ion	Ratio	Lower	Upper
237	100		
235	62.0	42.8	82.8
272	13.4	0.0	34.6

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

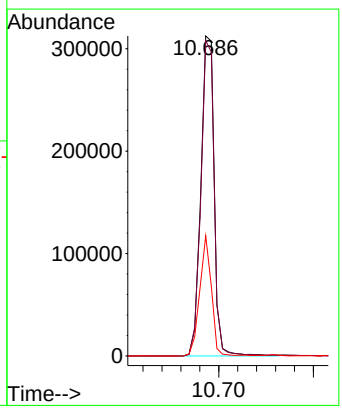


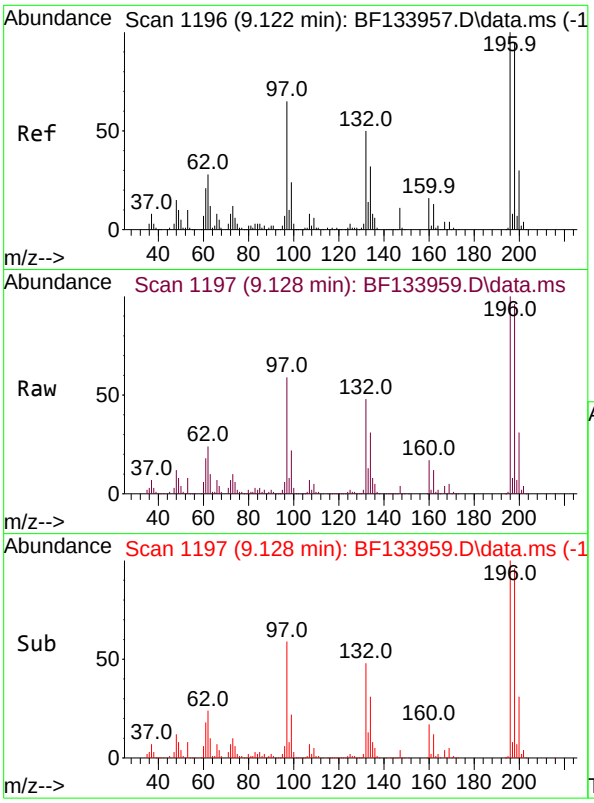


#42
2,4,6-Tribromophenol
Concen: 116.460 ng
RT: 10.686 min Scan# 1462
Delta R.T. 0.000 min
Lab File: BF133959.D
Acq: 26 Jun 2023 18:47

Tgt Ion:330 Resp: 304770

Ion	Ratio	Lower	Upper
330	100		
332	98.2	77.0	115.6
141	33.1	26.3	39.5

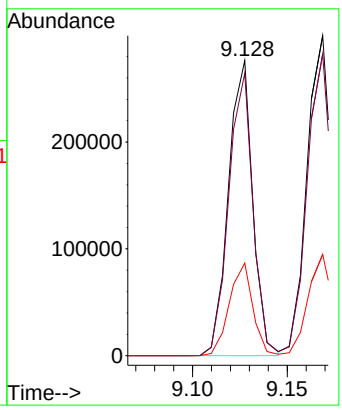




#43
2,4,6-Trichlorophenol
Concen: 58.587 ng
RT: 9.128 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF133959.D
Acq: 26 Jun 2023 18:47

Tgt Ion:196 Resp: 24662

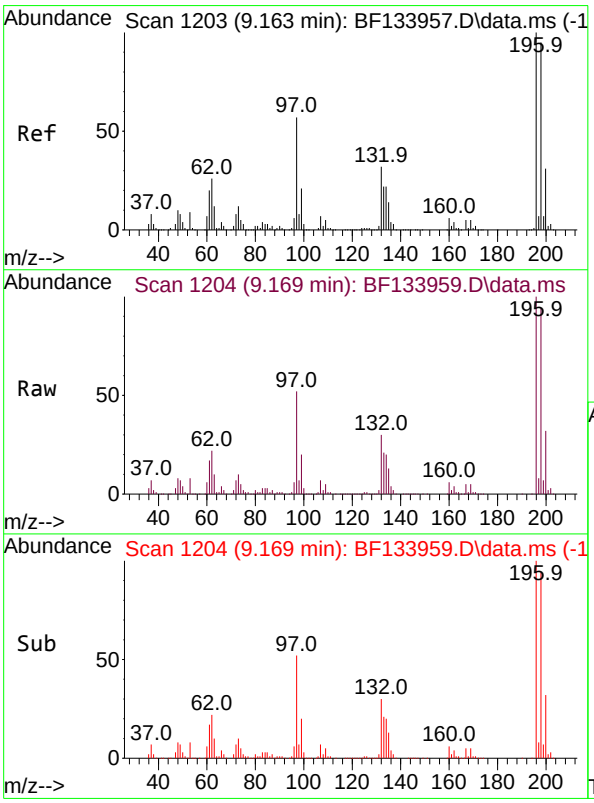
Ion	Ratio	Lower	Upper
196	100		
198	95.7	75.6	113.4
200	31.4	24.4	36.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

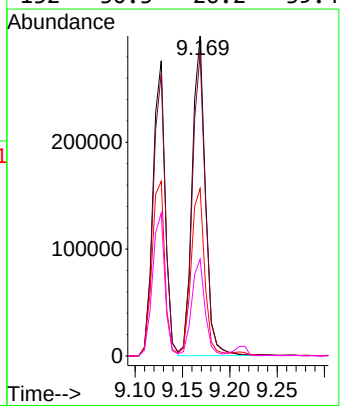
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

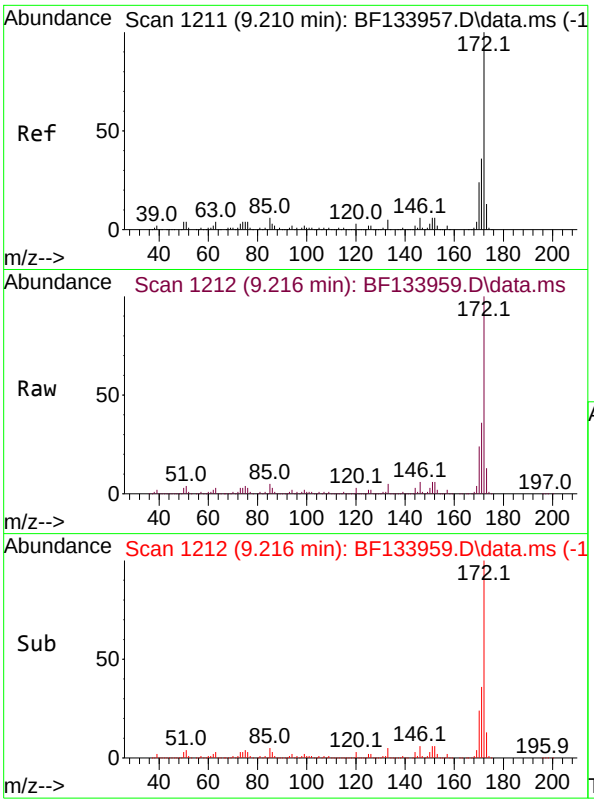


#44
2,4,5-Trichlorophenol
Concen: 59.069 ng
RT: 9.169 min Scan# 1204
Delta R.T. 0.006 min
Lab File: BF133959.D
Acq: 26 Jun 2023 18:47

Tgt Ion:196 Resp: 292482

Ion	Ratio	Lower	Upper
196	100		
198	94.2	75.7	113.5
97	52.3	45.8	68.6
132	30.3	26.2	39.4

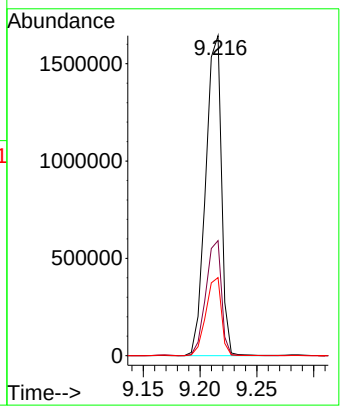




#45
2-Fluorobiphenyl
Concen: 110.309 ng
RT: 9.216 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF133959.D
Acq: 26 Jun 2023 18:47

Tgt Ion:172 Resp: 158359

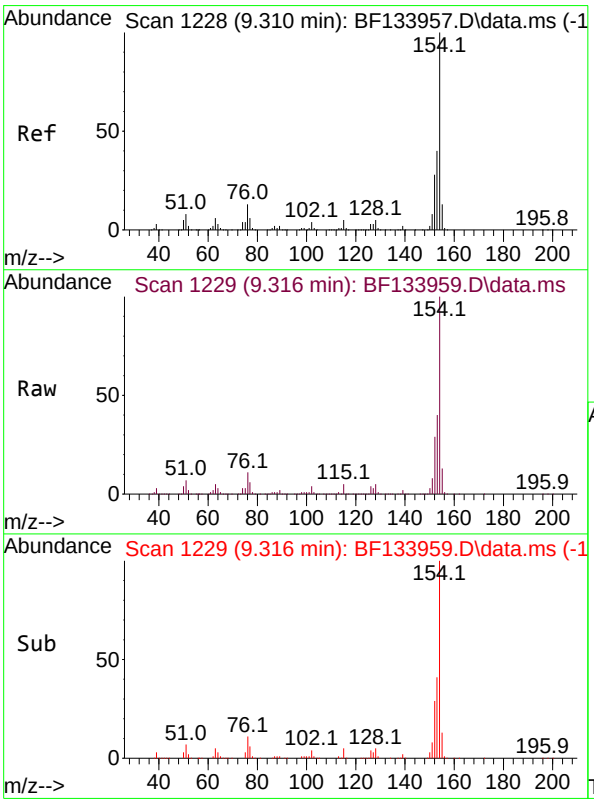
Ion	Ratio	Lower	Upper
172	100		
171	35.9	28.6	43.0
170	24.4	19.4	29.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

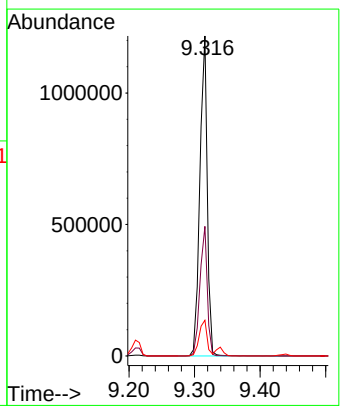
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

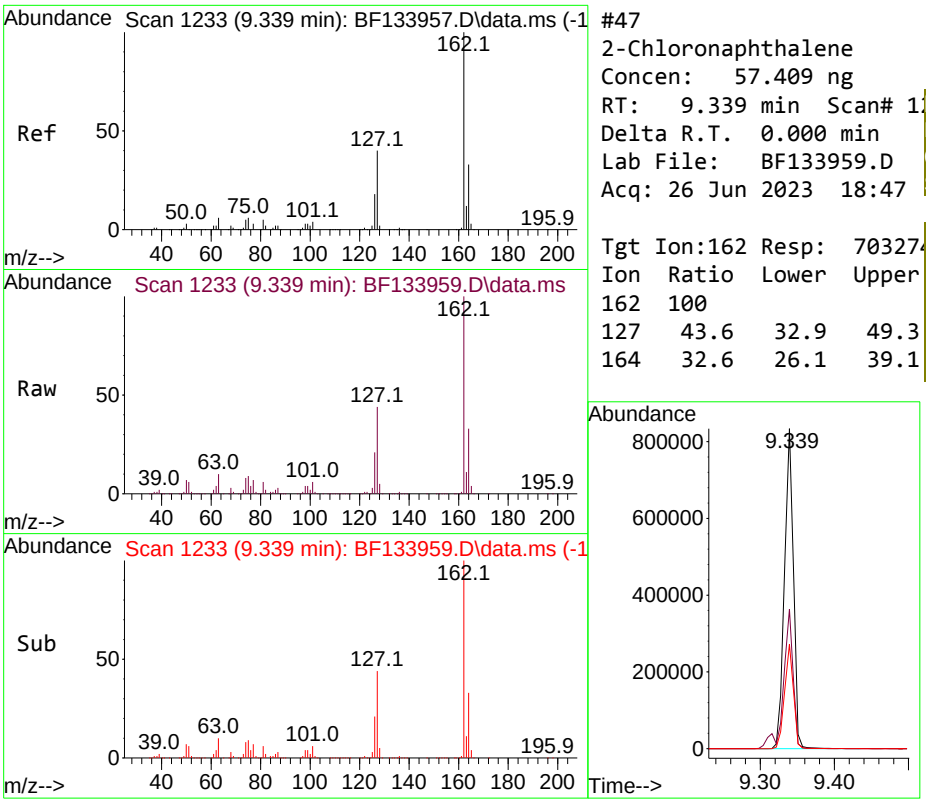


#46
1,1'-Biphenyl
Concen: 57.055 ng
RT: 9.316 min Scan# 1229
Delta R.T. 0.006 min
Lab File: BF133959.D
Acq: 26 Jun 2023 18:47

Tgt Ion:154 Resp: 955258

Ion	Ratio	Lower	Upper
154	100		
153	40.5	19.8	59.8
76	11.2	0.0	32.9





#47
2-Chloronaphthalene
Concen: 57.409 ng
RT: 9.339 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF133959.D
Acq: 26 Jun 2023 18:47

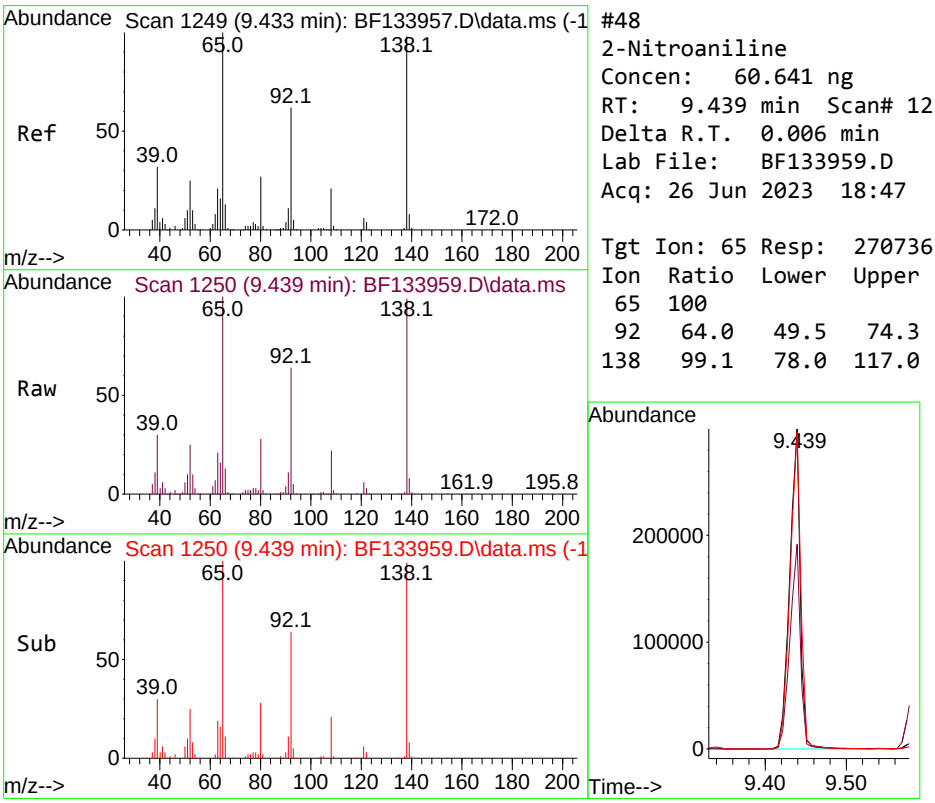
Tgt Ion:162 Resp: 70327

Ion	Ratio	Lower	Upper
162	100		
127	43.6	32.9	49.3
164	32.6	26.1	39.1

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

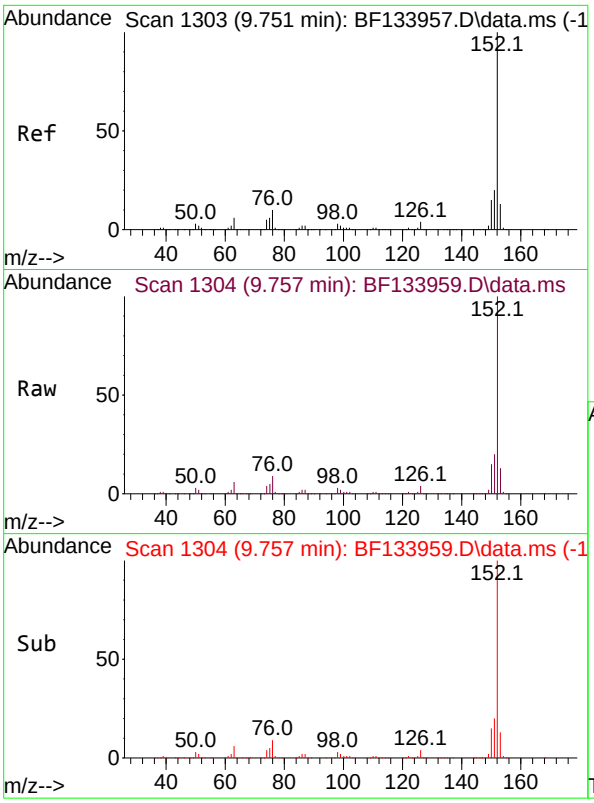
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023



#48
2-Nitroaniline
Concen: 60.641 ng
RT: 9.439 min Scan# 1250
Delta R.T. 0.006 min
Lab File: BF133959.D
Acq: 26 Jun 2023 18:47

Tgt Ion: 65 Resp: 270736

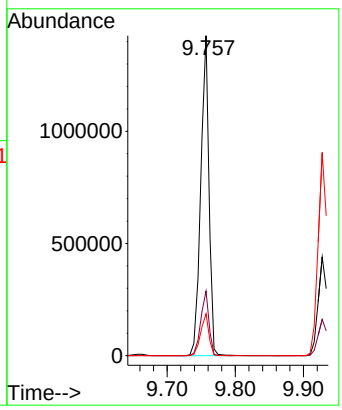
Ion	Ratio	Lower	Upper
65	100		
92	64.0	49.5	74.3
138	99.1	78.0	117.0



#49
Acenaphthylene
Concen: 57.116 ng
RT: 9.757 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF133959.D
Acq: 26 Jun 2023 18:47

Tgt Ion:152 Resp: 119521

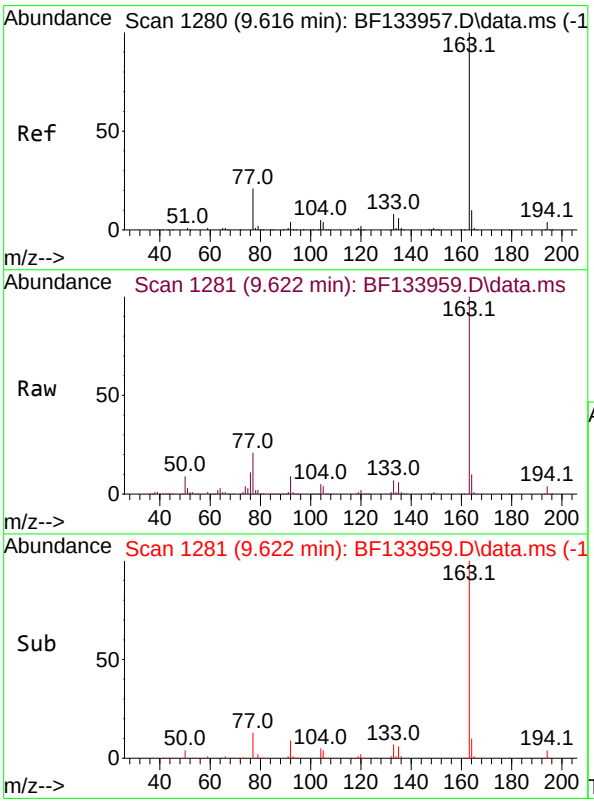
Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.2	24.2
153	13.1	10.8	16.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

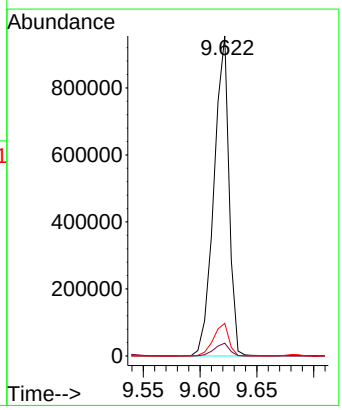
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

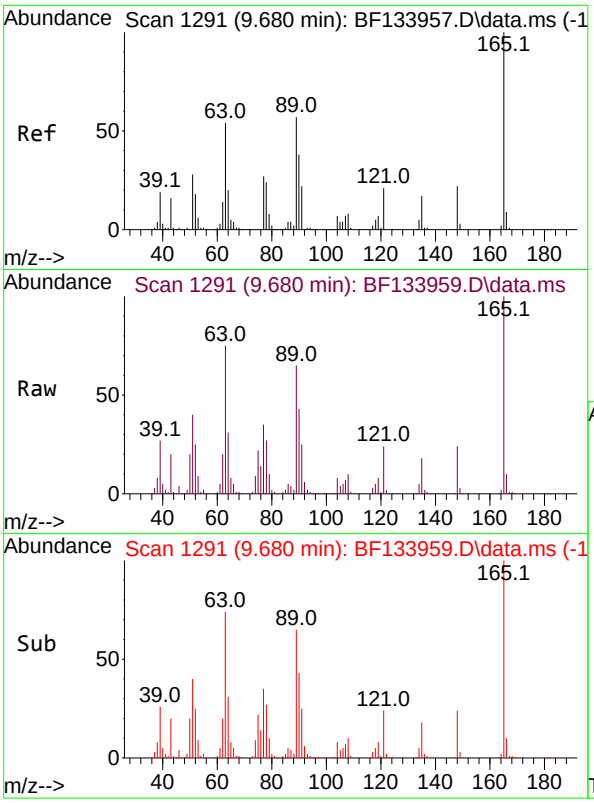


#50
Dimethylphthalate
Concen: 58.207 ng
RT: 9.622 min Scan# 1281
Delta R.T. 0.006 min
Lab File: BF133959.D
Acq: 26 Jun 2023 18:47

Tgt Ion:163 Resp: 881908

Ion	Ratio	Lower	Upper
163	100		
194	4.0	3.0	4.6
164	10.2	8.2	12.2





#51
2,6-Dinitrotoluene
Concen: 60.466 ng
RT: 9.680 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF133959.D
Acq: 26 Jun 2023 18:47

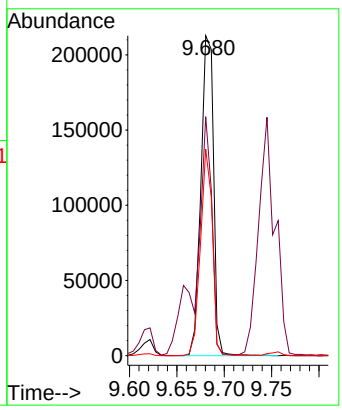
Tgt Ion:165 Resp: 19731

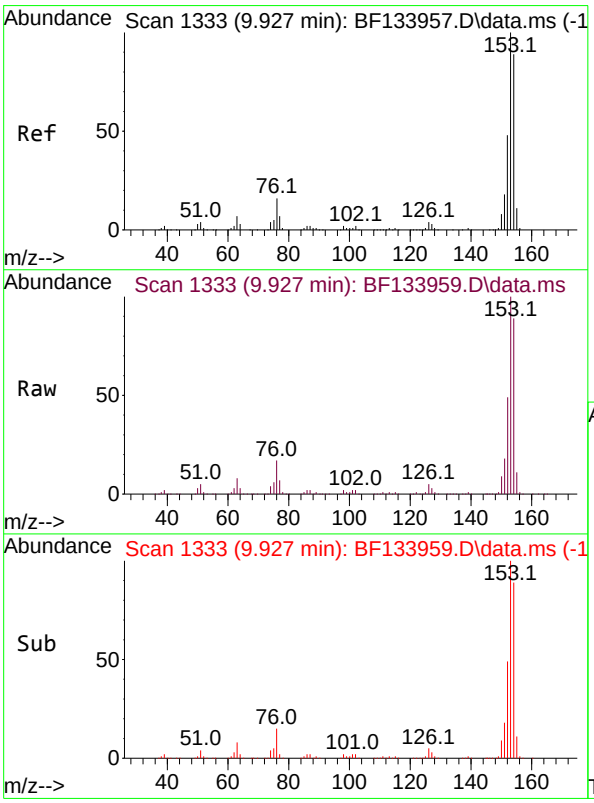
Ion	Ratio	Lower	Upper
165	100		
63	74.7	48.5	72.7#
89	64.5	45.5	68.3

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

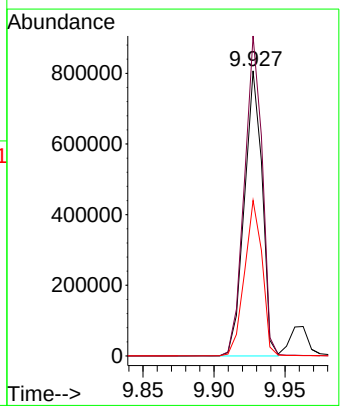


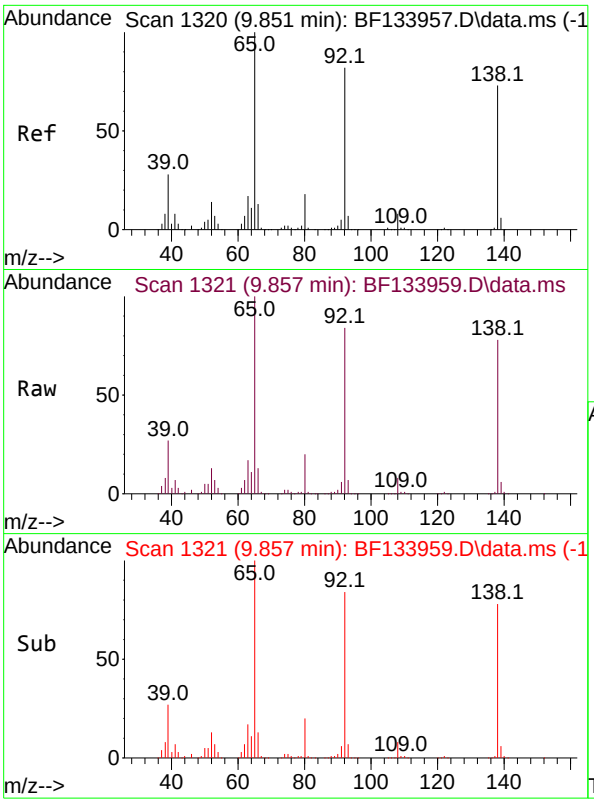


#52
Acenaphthene
Concen: 57.873 ng
RT: 9.927 min Scan# 1333
Delta R.T. 0.000 min
Lab File: BF133959.D
Acq: 26 Jun 2023 18:47

Tgt Ion:154 Resp: 702729

Ion	Ratio	Lower	Upper
154	100		
153	112.3	89.4	134.2
152	54.6	42.8	64.2

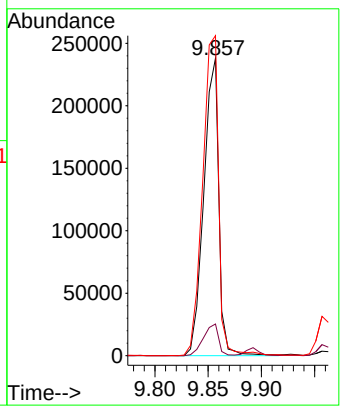




#53
3-Nitroaniline
Concen: 59.865 ng
RT: 9.857 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF133959.D
Acq: 26 Jun 2023 18:47

Tgt Ion:138 Resp: 23436

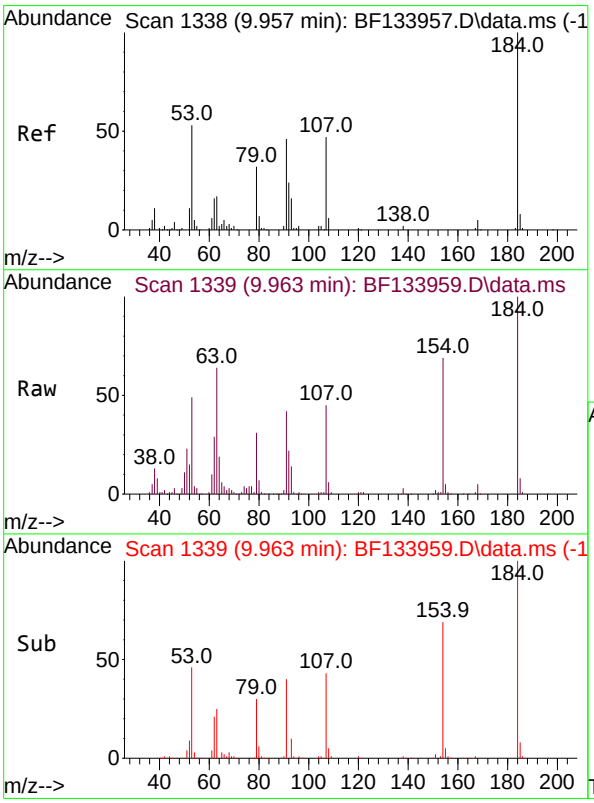
Ion	Ratio	Lower	Upper
138	100		
108	10.7	8.4	12.6
92	107.6	90.1	135.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

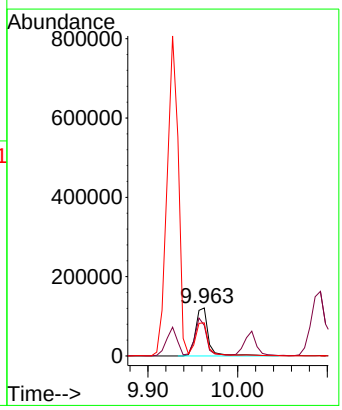
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

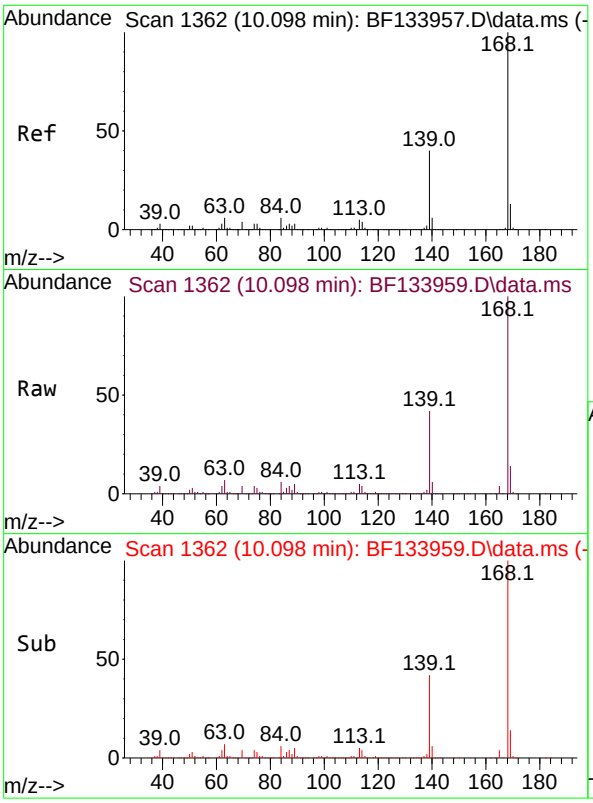


#54
2,4-Dinitrophenol
Concen: 64.625 ng
RT: 9.963 min Scan# 1339
Delta R.T. 0.006 min
Lab File: BF133959.D
Acq: 26 Jun 2023 18:47

Tgt Ion:184 Resp: 120321

Ion	Ratio	Lower	Upper
184	100		
63	63.7	56.9	85.3
154	69.0	55.4	83.0

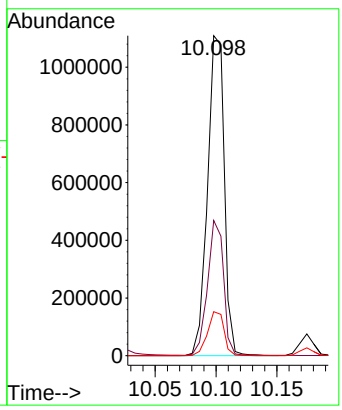




#55
Dibenzofuran
Concen: 56.114 ng
RT: 10.098 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF133959.D
Acq: 26 Jun 2023 18:47

Tgt Ion:168 Resp: 106488

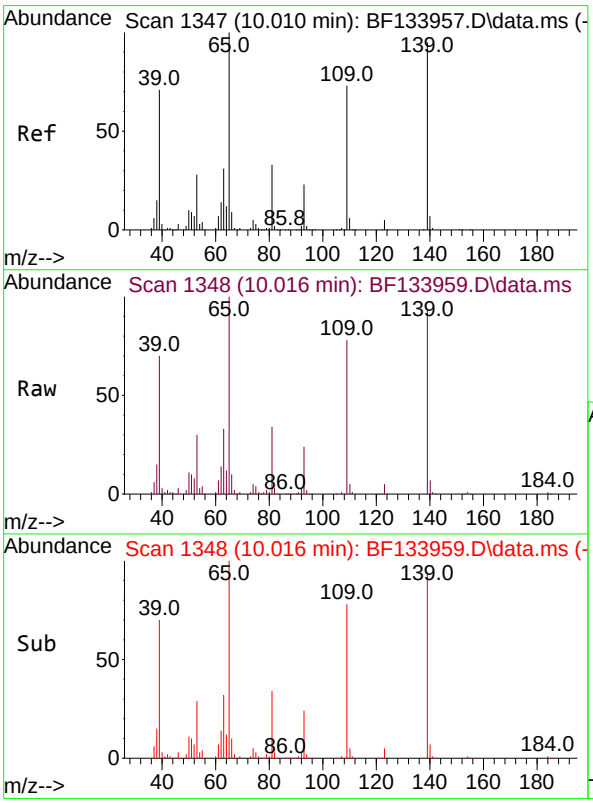
Ion	Ratio	Lower	Upper
168	100		
139	42.2	32.0	48.0
169	13.7	10.6	16.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

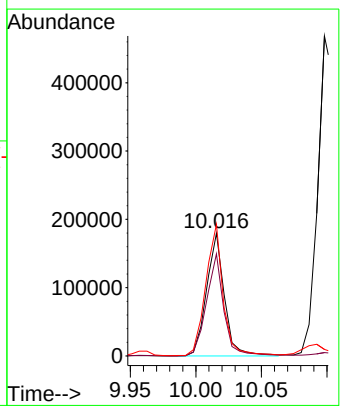
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

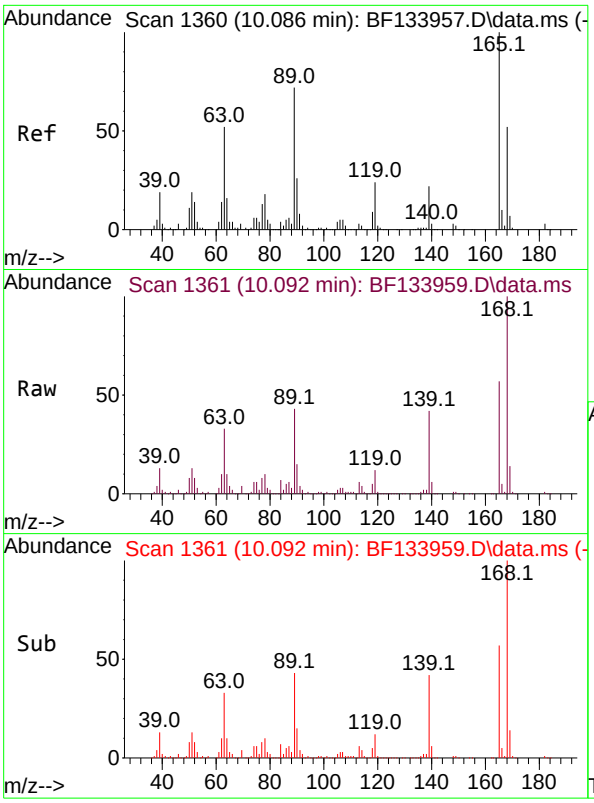


#56
4-Nitrophenol
Concen: 62.232 ng
RT: 10.016 min Scan# 1348
Delta R.T. 0.006 min
Lab File: BF133959.D
Acq: 26 Jun 2023 18:47

Tgt Ion:139 Resp: 170417

Ion	Ratio	Lower	Upper
139	100		
109	83.2	56.8	96.8
65	107.2	86.1	126.1

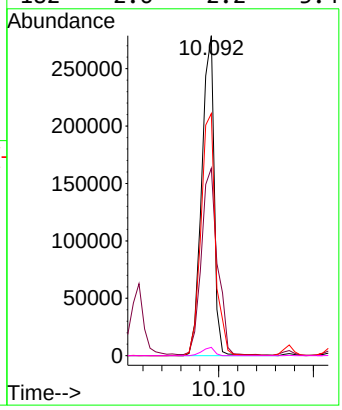




#57
2,4-Dinitrotoluene
Concen: 59.204 ng
RT: 10.092 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF133959.D
Acq: 26 Jun 2023 18:47

Tgt Ion:165 Resp: 25514

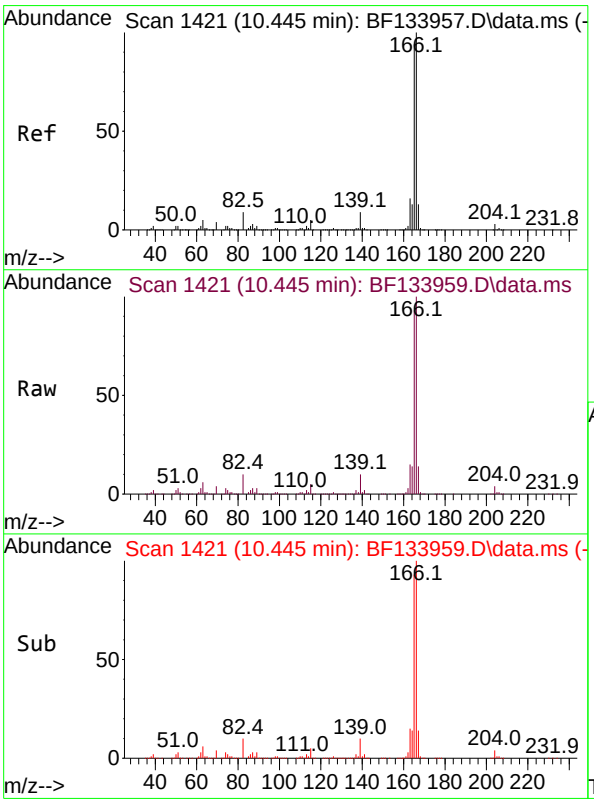
Ion	Ratio	Lower	Upper
165	100		
63	58.5	42.2	63.2
89	75.7	57.4	86.2
182	2.6	2.2	3.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

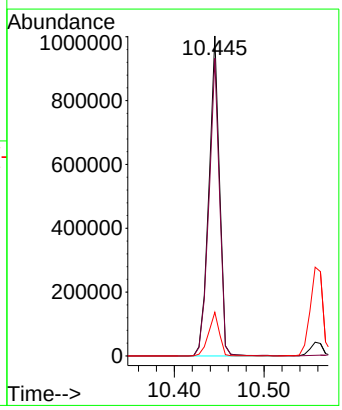
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

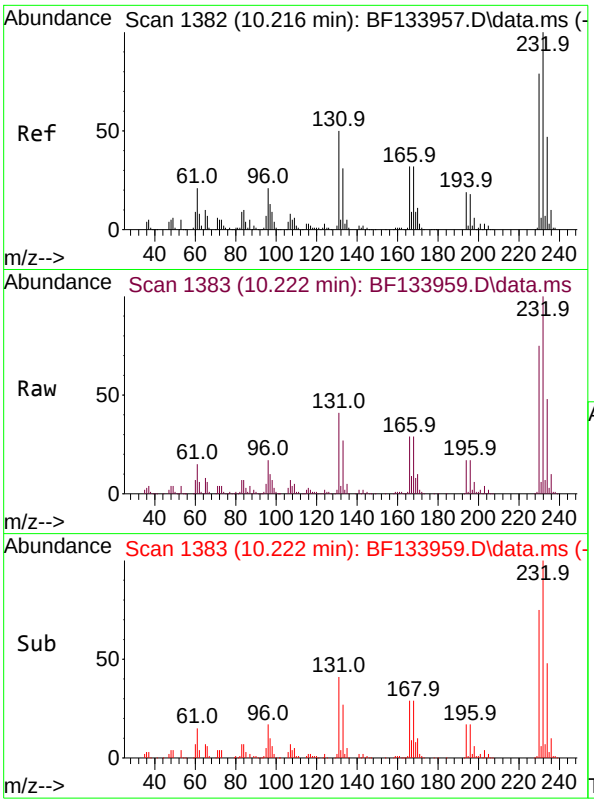


#58
Fluorene
Concen: 55.923 ng
RT: 10.445 min Scan# 1421
Delta R.T. 0.000 min
Lab File: BF133959.D
Acq: 26 Jun 2023 18:47

Tgt Ion:166 Resp: 825647

Ion	Ratio	Lower	Upper
166	100		
165	93.0	75.0	112.4
167	13.7	10.6	15.8

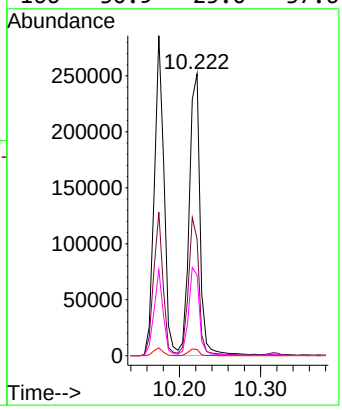




#59
2,3,4,6-Tetrachlorophenol
Concen: 59.590 ng
RT: 10.222 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF133959.D
Acq: 26 Jun 2023 18:47

Tgt Ion:232 Resp: 23274

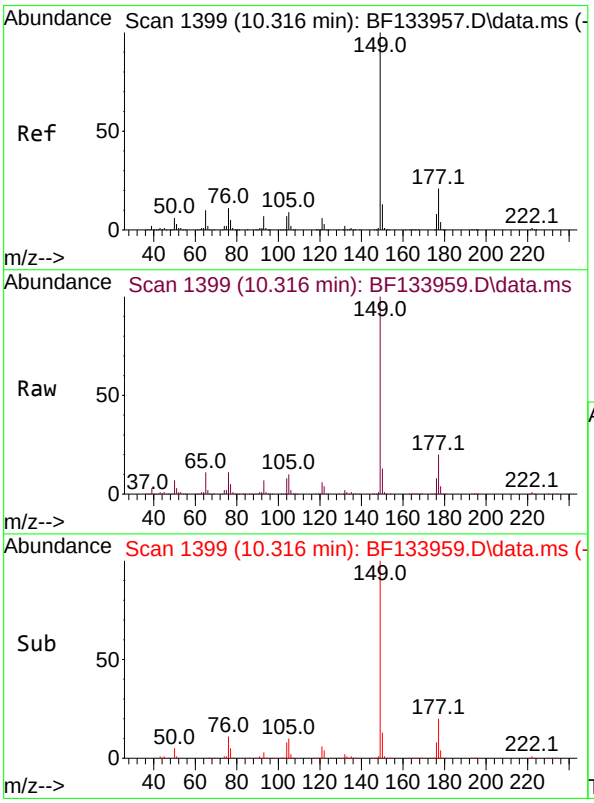
Ion	Ratio	Lower	Upper
232	100		
131	47.3	39.3	58.9
130	2.4	1.8	2.6
166	30.9	25.0	37.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

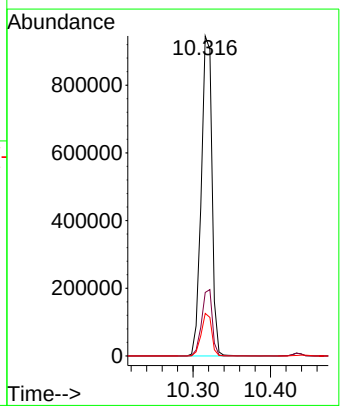
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

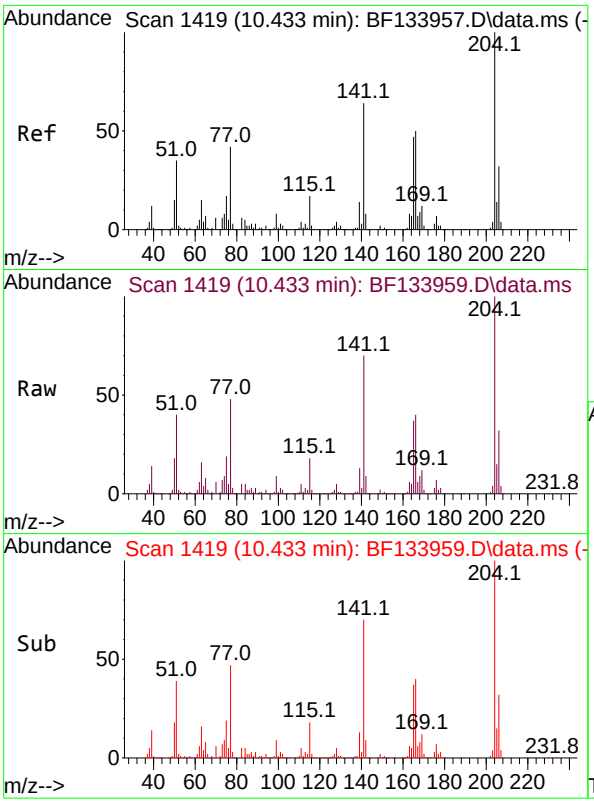


#60
Diethylphthalate
Concen: 57.422 ng
RT: 10.316 min Scan# 1399
Delta R.T. 0.000 min
Lab File: BF133959.D
Acq: 26 Jun 2023 18:47

Tgt Ion:149 Resp: 906406

Ion	Ratio	Lower	Upper
149	100		
177	19.8	17.0	25.6
150	13.3	10.2	15.2





#61
4-Chlorophenyl-phenylether
Concen: 56.187 ng
RT: 10.433 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF133959.D
Acq: 26 Jun 2023 18:47

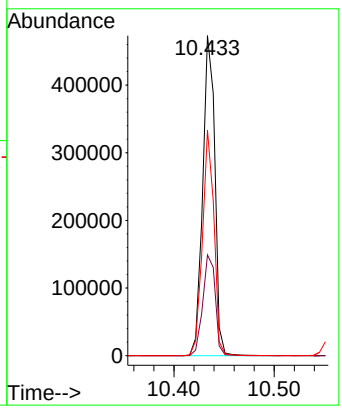
Tgt Ion:204 Resp: 39977

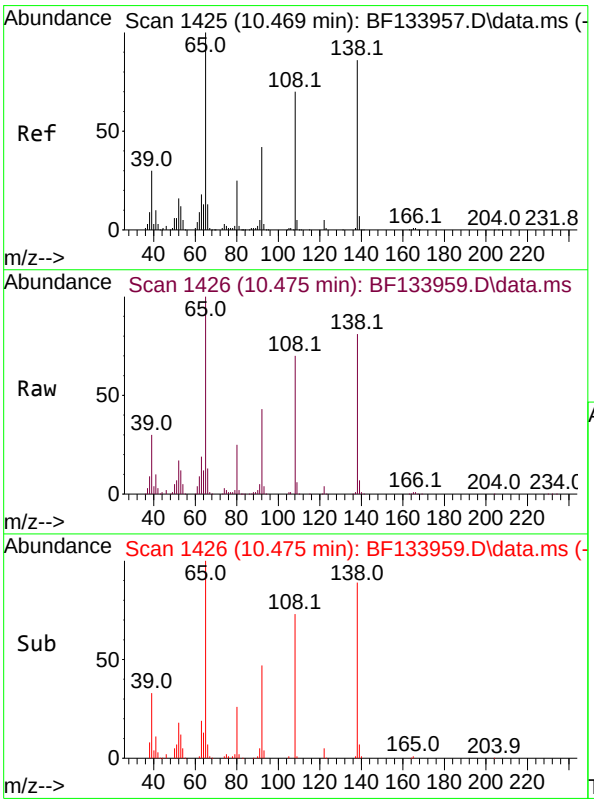
Ion	Ratio	Lower	Upper
204	100		
206	31.5	25.8	38.6
141	70.4	51.5	77.3

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

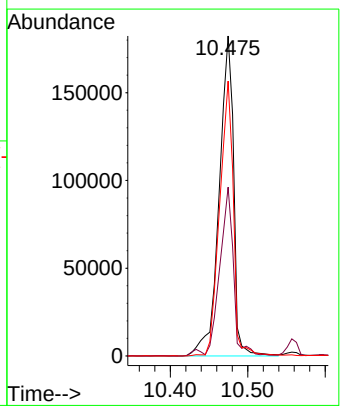


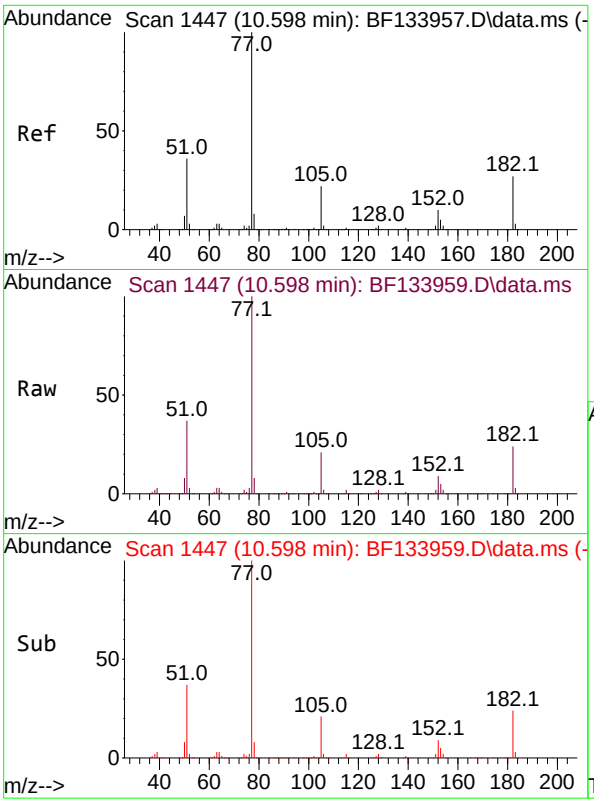


#62
4-Nitroaniline
Concen: 60.010 ng
RT: 10.475 min Scan# 1426
Delta R.T. 0.006 min
Lab File: BF133959.D
Acq: 26 Jun 2023 18:47

Tgt Ion:138 Resp: 236762

Ion	Ratio	Lower	Upper
138	100		
92	52.7	29.7	69.7
108	85.9	62.1	102.1

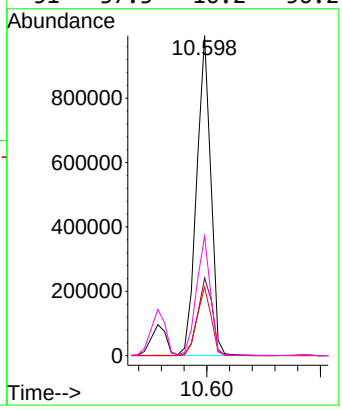




#63
Azobenzene
Concen: 57.612 ng
RT: 10.598 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF133959.D
Acq: 26 Jun 2023 18:47

Tgt Ion: 77 Resp: 86023

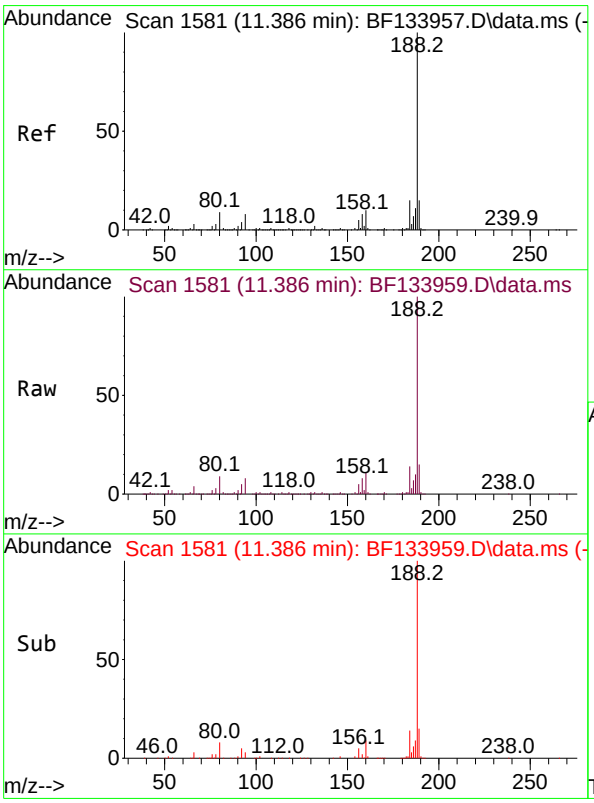
Ion	Ratio	Lower	Upper
77	100		
182	24.3	6.8	46.8
105	21.4	2.3	42.3
51	37.3	16.2	56.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

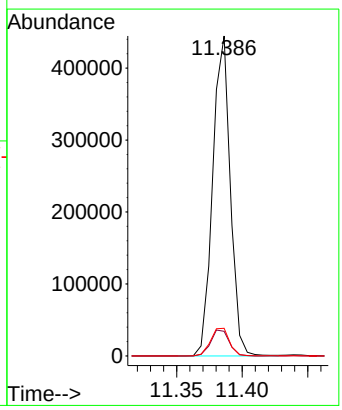
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

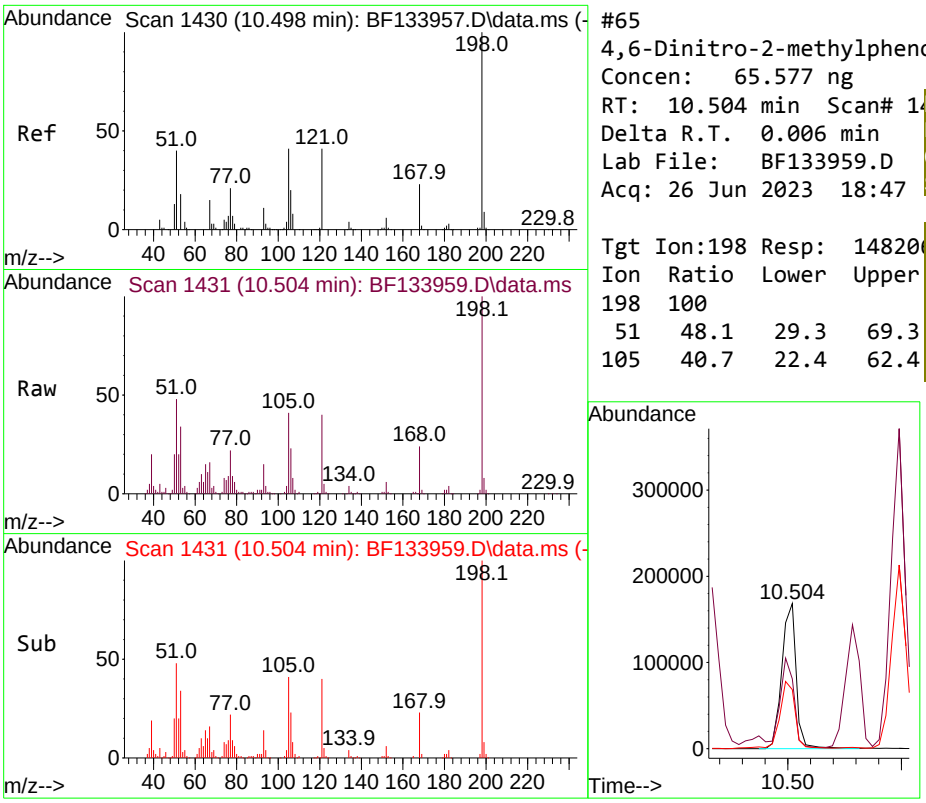


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.386 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BF133959.D
Acq: 26 Jun 2023 18:47

Tgt Ion:188 Resp: 414540

Ion	Ratio	Lower	Upper
188	100		
94	7.7	6.4	9.6
80	8.7	7.3	10.9





#65
4,6-Dinitro-2-methylphenol
Concen: 65.577 ng
RT: 10.504 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF133959.D
Acq: 26 Jun 2023 18:47

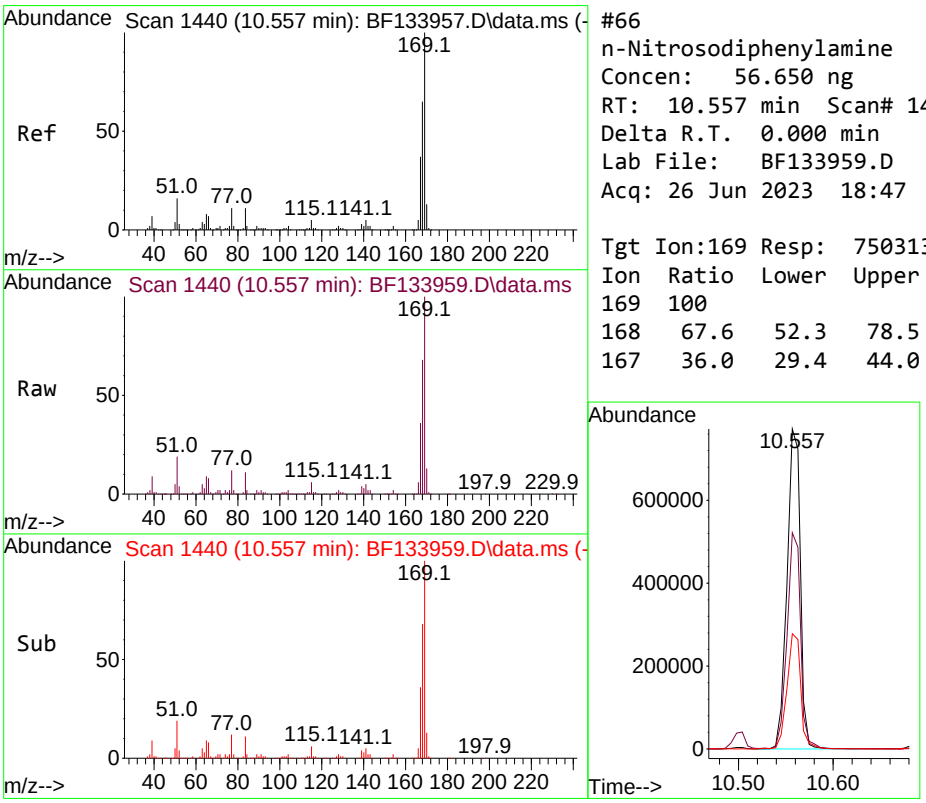
Tgt Ion:198 Resp: 14820

Ion	Ratio	Lower	Upper
198	100		
51	48.1	29.3	69.3
105	40.7	22.4	62.4

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

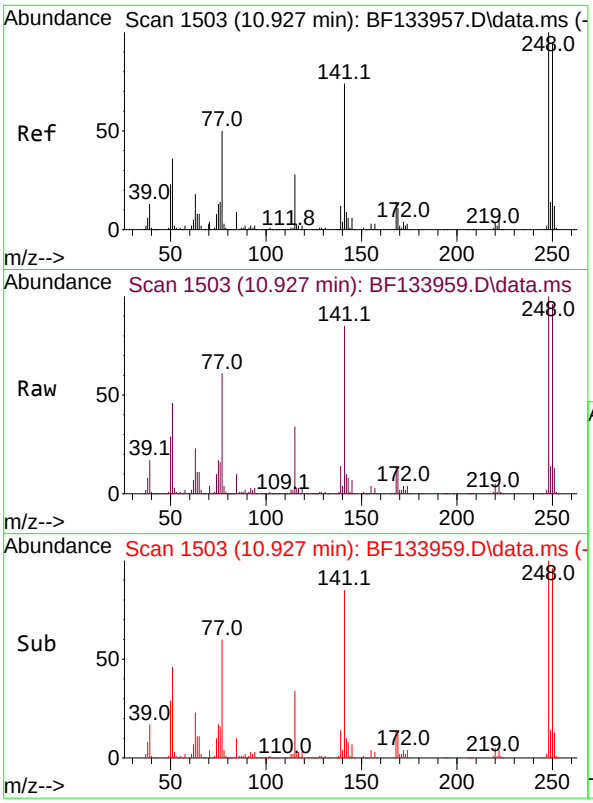
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023



#66
n-Nitrosodiphenylamine
Concen: 56.650 ng
RT: 10.557 min Scan# 1440
Delta R.T. 0.000 min
Lab File: BF133959.D
Acq: 26 Jun 2023 18:47

Tgt Ion:169 Resp: 750313

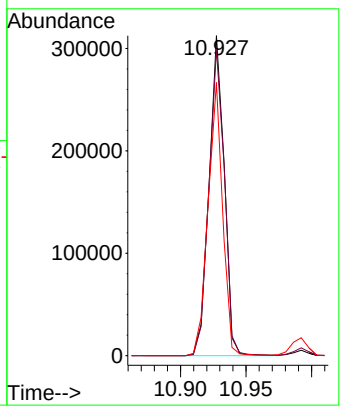
Ion	Ratio	Lower	Upper
169	100		
168	67.6	52.3	78.5
167	36.0	29.4	44.0



#67
4-Bromophenyl-phenylether
Concen: 57.379 ng
RT: 10.927 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF133959.D
Acq: 26 Jun 2023 18:47

Tgt Ion:248 Resp: 25281

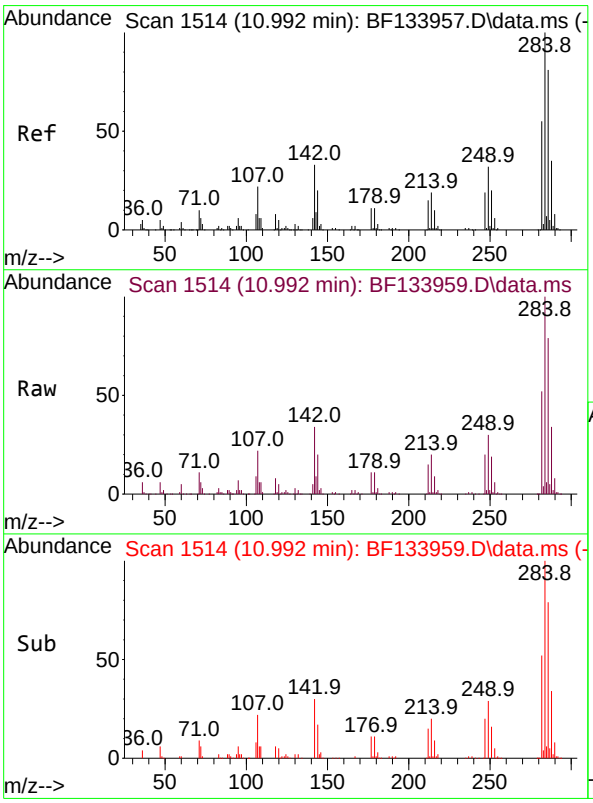
Ion	Ratio	Lower	Upper
248	100		
250	95.8	76.2	114.4
141	85.4	59.0	88.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

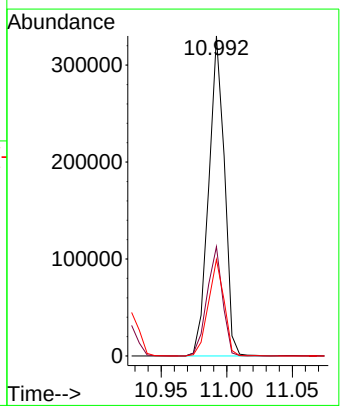
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

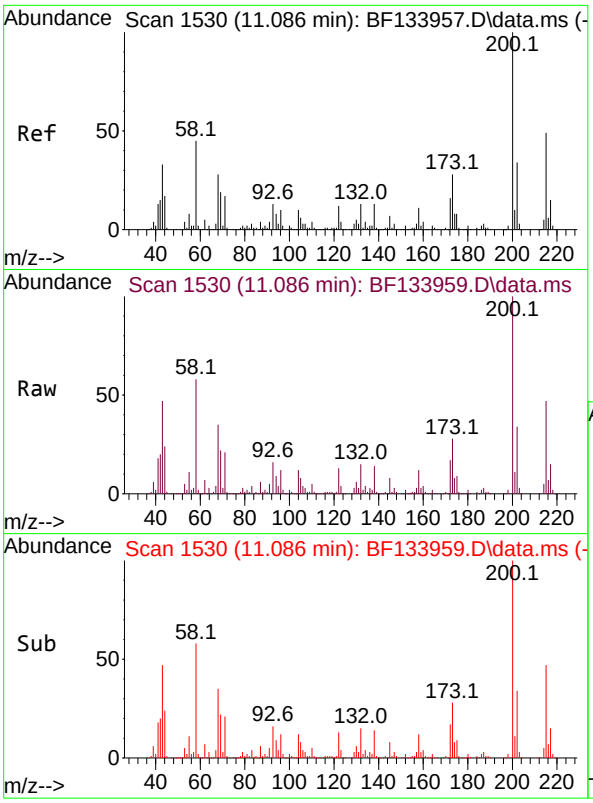


#68
Hexachlorobenzene
Concen: 58.974 ng
RT: 10.992 min Scan# 1514
Delta R.T. 0.000 min
Lab File: BF133959.D
Acq: 26 Jun 2023 18:47

Tgt Ion:284 Resp: 275891

Ion	Ratio	Lower	Upper
284	100		
142	34.1	26.6	40.0
249	30.2	25.5	38.3

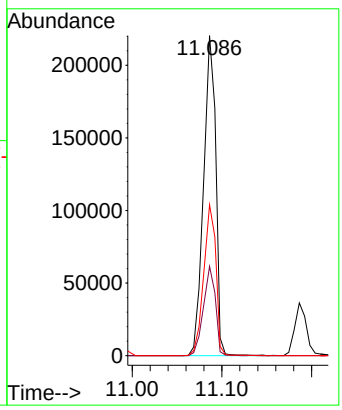




#69
Atrazine
Concen: 56.823 ng
RT: 11.086 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF133959.D
Acq: 26 Jun 2023 18:47

Tgt Ion:200 Resp: 20817

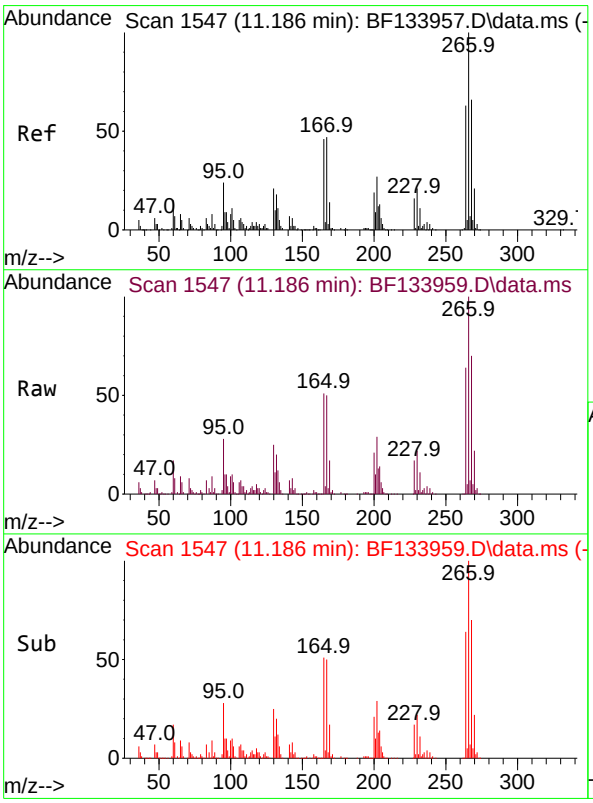
Ion	Ratio	Lower	Upper
200	100		
173	27.9	8.0	48.0
215	47.2	29.3	69.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

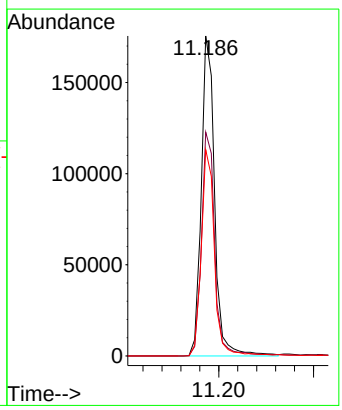
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

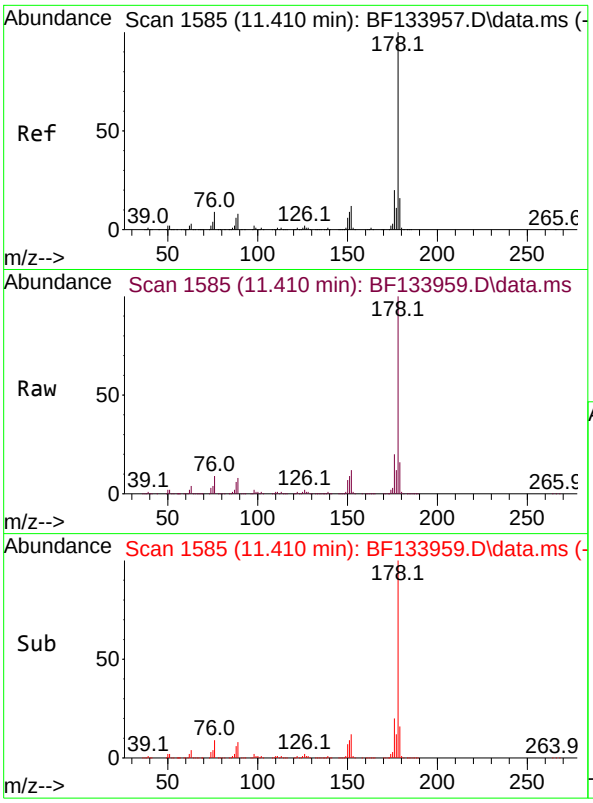


#70
Pentachlorophenol
Concen: 60.984 ng
RT: 11.186 min Scan# 1547
Delta R.T. 0.000 min
Lab File: BF133959.D
Acq: 26 Jun 2023 18:47

Tgt Ion:266 Resp: 170583

Ion	Ratio	Lower	Upper
266	100		
268	70.0	52.6	79.0
264	64.4	50.6	76.0

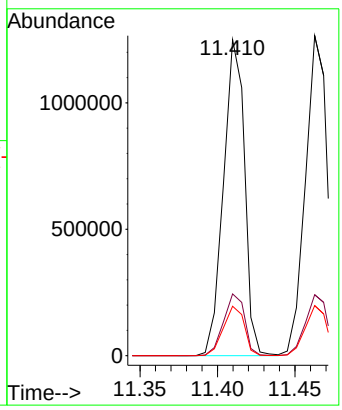




#71
Phenanthrene
Concen: 56.683 ng
RT: 11.410 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF133959.D
Acq: 26 Jun 2023 18:47

Tgt Ion:178 Resp: 118288

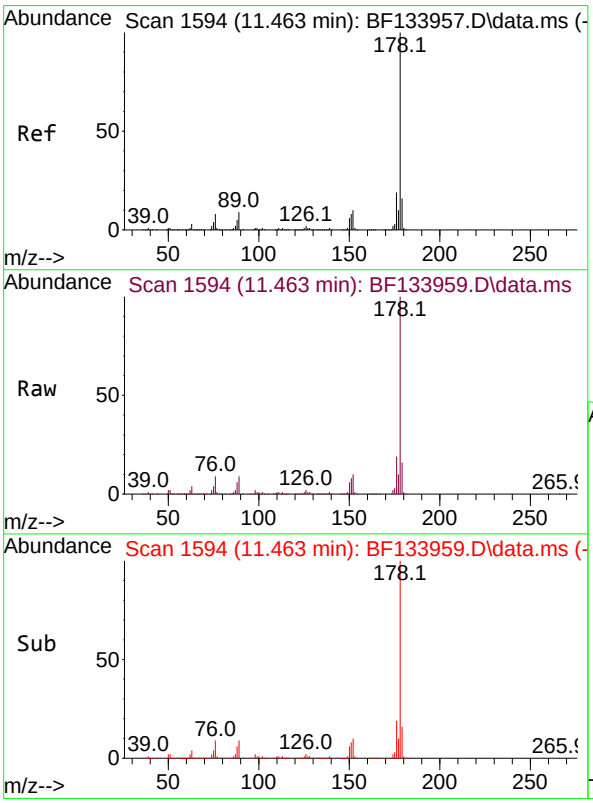
Ion	Ratio	Lower	Upper
178	100		
176	19.6	16.0	24.0
179	15.7	12.4	18.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

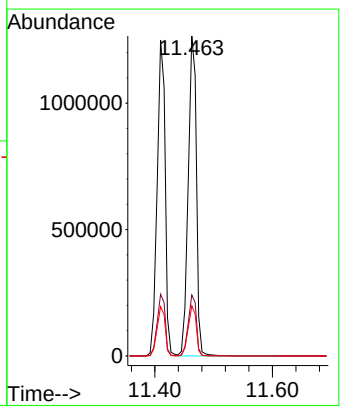
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

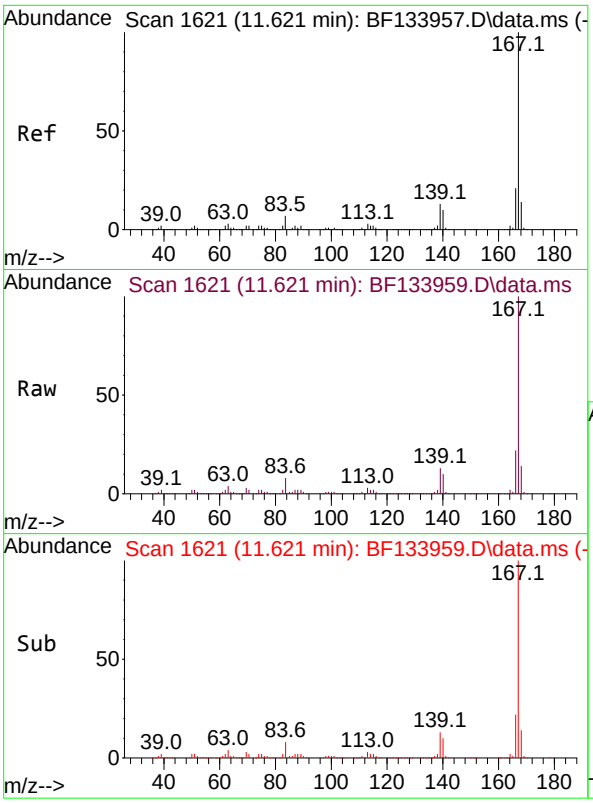


#72
Anthracene
Concen: 56.627 ng
RT: 11.463 min Scan# 1594
Delta R.T. 0.000 min
Lab File: BF133959.D
Acq: 26 Jun 2023 18:47

Tgt Ion:178 Resp: 1229139

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.3	22.9
179	15.6	12.4	18.6

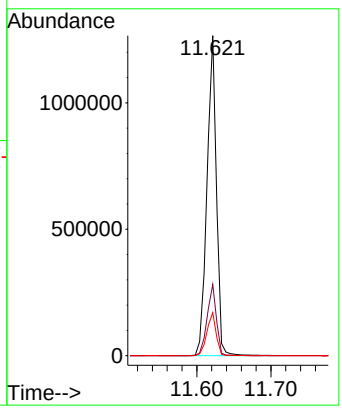




#73
Carbazole
Concen: 56.468 ng
RT: 11.621 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF133959.D
Acq: 26 Jun 2023 18:47

Tgt Ion:167 Resp: 112187

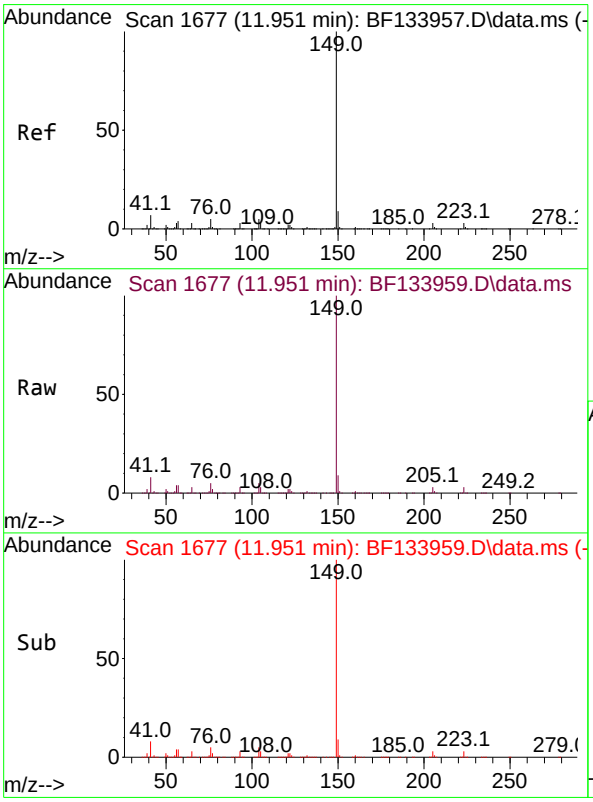
Ion	Ratio	Lower	Upper
167	100		
166	22.2	17.0	25.6
139	13.5	10.4	15.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

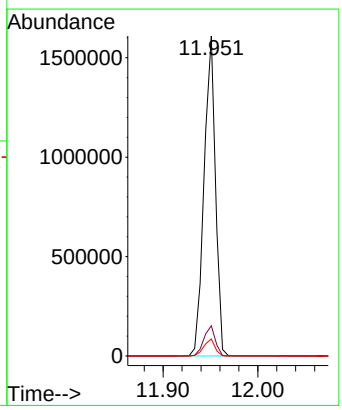
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

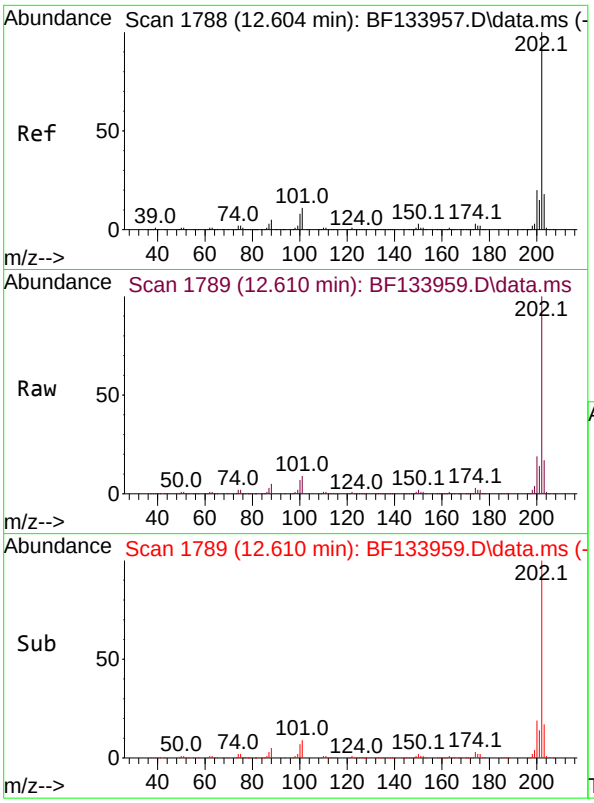


#74
Di-n-butylphthalate
Concen: 57.049 ng
RT: 11.951 min Scan# 1677
Delta R.T. 0.000 min
Lab File: BF133959.D
Acq: 26 Jun 2023 18:47

Tgt Ion:149 Resp: 1347856

Ion	Ratio	Lower	Upper
149	100		
150	9.5	7.1	10.7
104	5.3	4.0	6.0

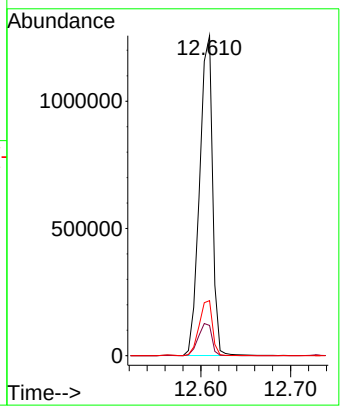




#75
Fluoranthene
Concen: 55.769 ng
RT: 12.610 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF133959.D
Acq: 26 Jun 2023 18:47

Tgt Ion:202 Resp: 125819

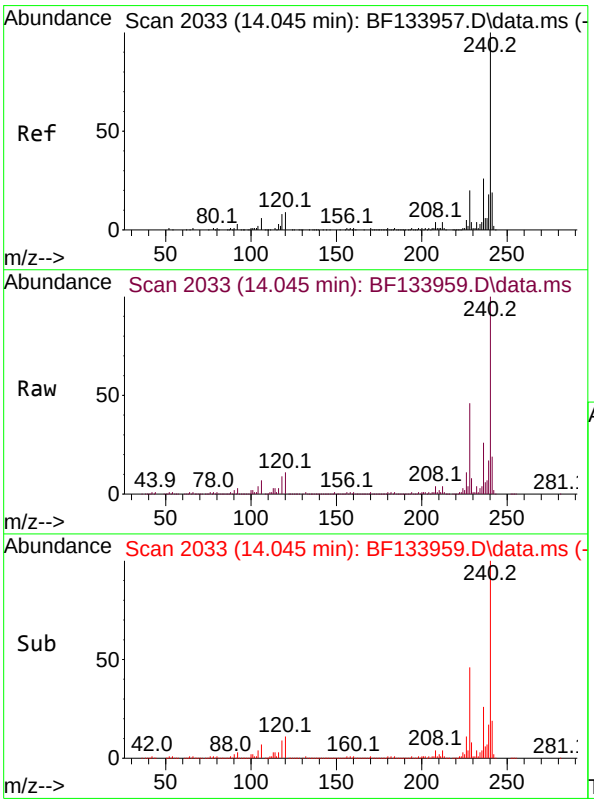
Ion	Ratio	Lower	Upper
202	100		
101	9.5	0.0	31.0
203	17.2	0.0	37.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

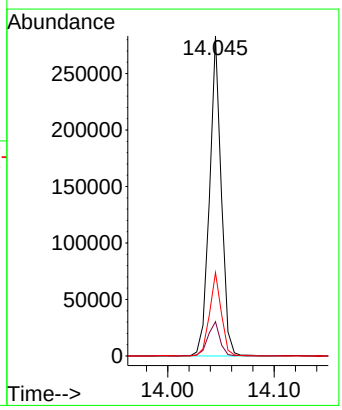
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

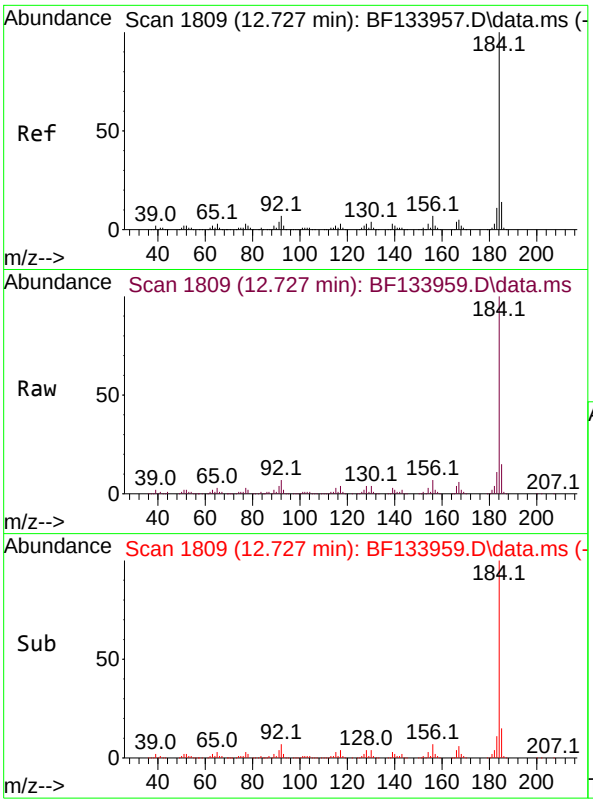


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.045 min Scan# 2033
Delta R.T. 0.000 min
Lab File: BF133959.D
Acq: 26 Jun 2023 18:47

Tgt Ion:240 Resp: 217263

Ion	Ratio	Lower	Upper
240	100		
120	10.7	7.4	11.0
236	26.1	21.0	31.6

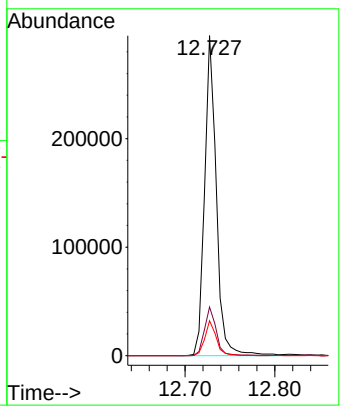




#77
Benzidine
Concen: 51.698 ng
RT: 12.727 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF133959.D
Acq: 26 Jun 2023 18:47

Tgt Ion:184 Resp: 26725

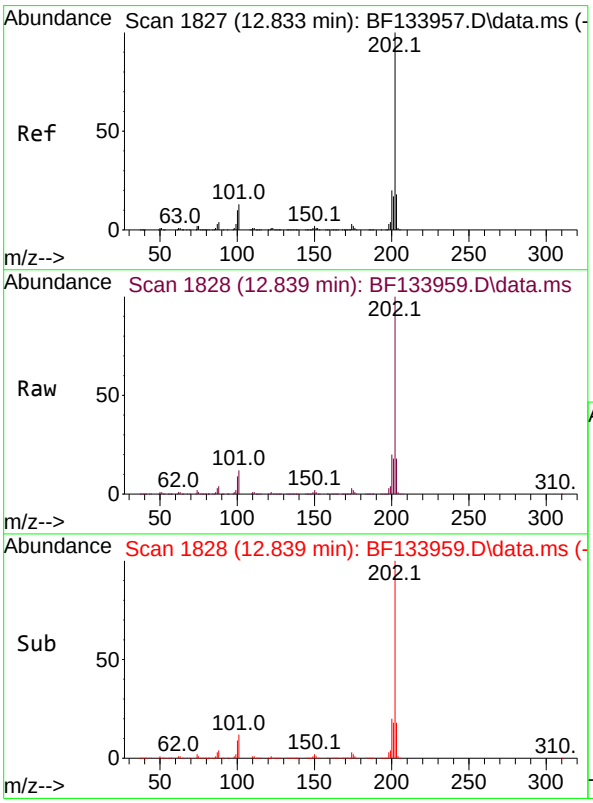
Ion	Ratio	Lower	Upper
184	100		
185	15.2	11.6	17.4
183	10.9	8.8	13.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

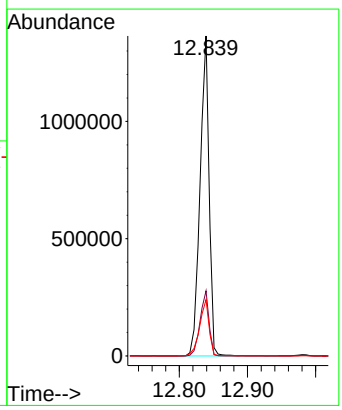
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

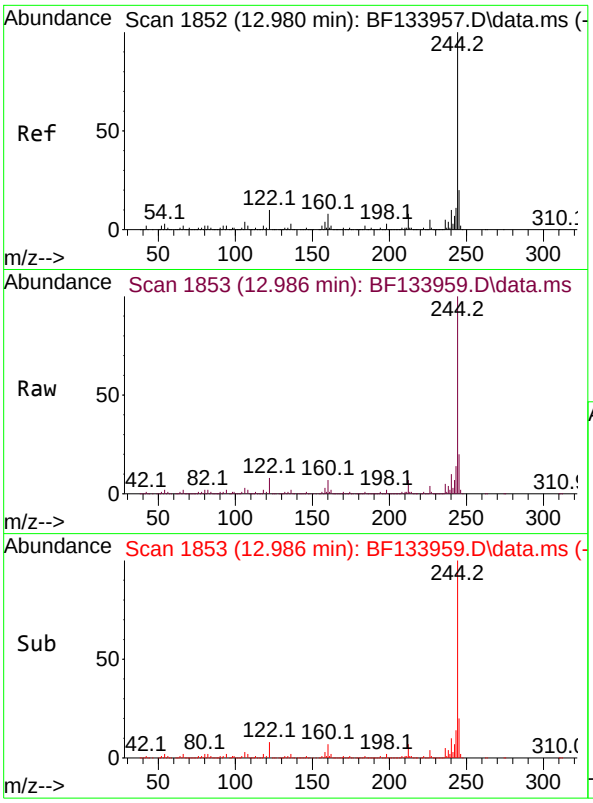


#78
Pyrene
Concen: 62.349 ng
RT: 12.839 min Scan# 1828
Delta R.T. 0.006 min
Lab File: BF133959.D
Acq: 26 Jun 2023 18:47

Tgt Ion:202 Resp: 1260659

Ion	Ratio	Lower	Upper
202	100		
200	20.4	16.1	24.1
203	17.6	14.3	21.5

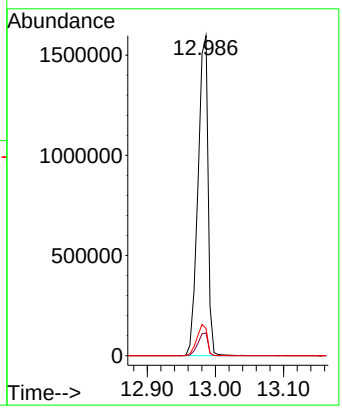




#79
Terphenyl-d14
Concen: 120.998 ng
RT: 12.986 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF133959.D
Acq: 26 Jun 2023 18:47

Tgt Ion:244 Resp: 163405

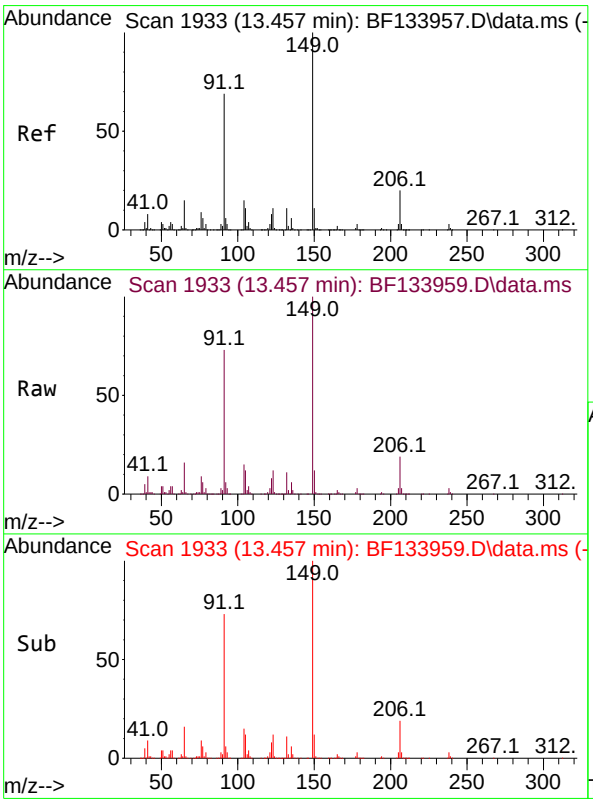
Ion	Ratio	Lower	Upper
244	100		
212	7.1	6.0	9.0
122	8.5	8.3	12.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

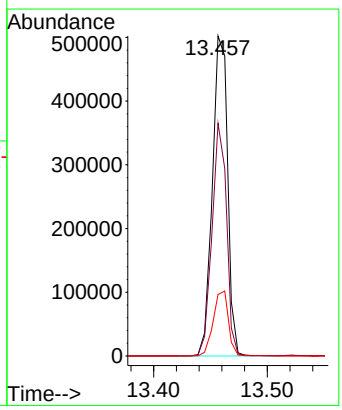
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

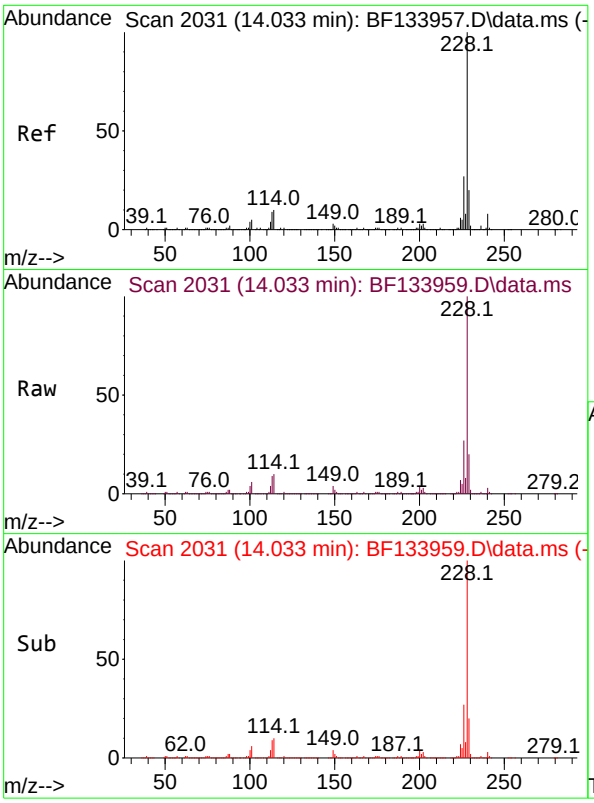


#80
Butylbenzylphthalate
Concen: 61.899 ng
RT: 13.457 min Scan# 1933
Delta R.T. 0.000 min
Lab File: BF133959.D
Acq: 26 Jun 2023 18:47

Tgt Ion:149 Resp: 469390

Ion	Ratio	Lower	Upper
149	100		
91	72.7	55.1	82.7
206	19.2	15.7	23.5

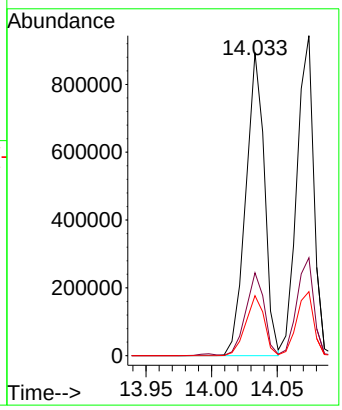




#81
Benzo(a)anthracene
Concen: 58.652 ng
RT: 14.033 min Scan# 2(
Delta R.T. 0.000 min
Lab File: BF133959.D
Acq: 26 Jun 2023 18:47

Tgt Ion:228 Resp: 88375(

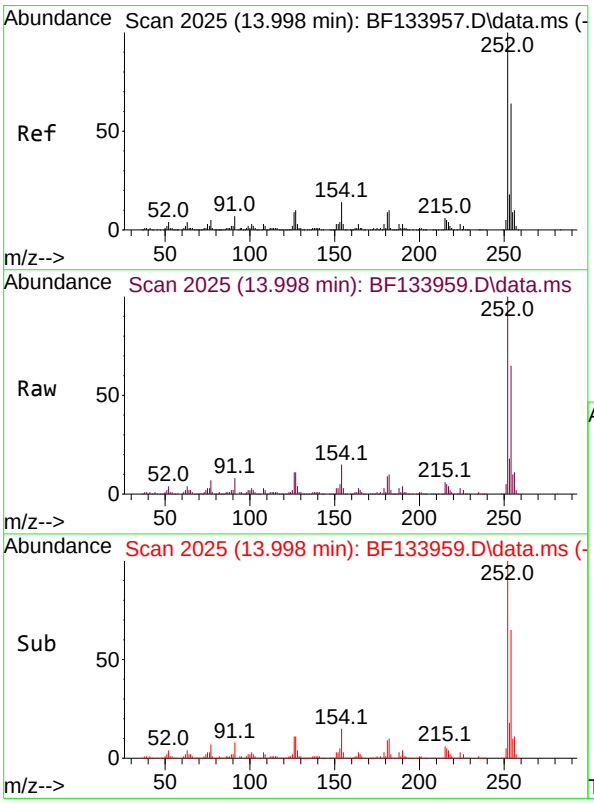
Ion	Ratio	Lower	Upper
228	100		
226	27.3	22.0	33.0
229	19.8	16.3	24.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

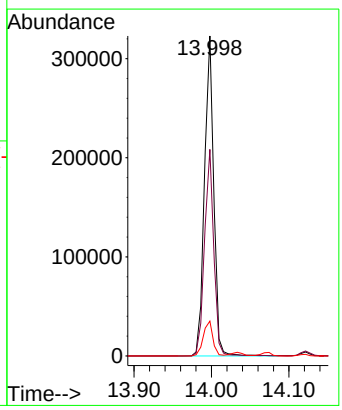
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

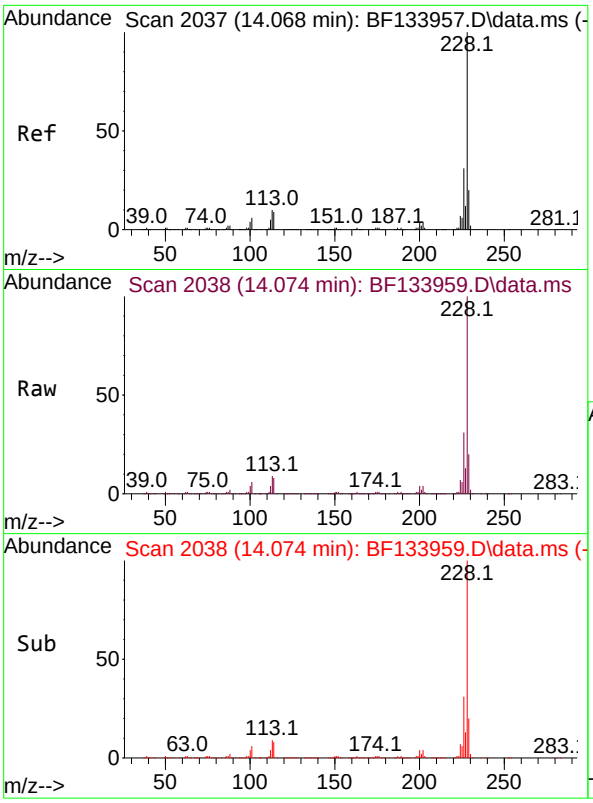


#82
3,3'-Dichlorobenzidine
Concen: 56.293 ng
RT: 13.998 min Scan# 2025
Delta R.T. 0.000 min
Lab File: BF133959.D
Acq: 26 Jun 2023 18:47

Tgt Ion:252 Resp: 268725

Ion	Ratio	Lower	Upper
252	100		
254	64.5	51.4	77.0
126	10.9	7.4	11.2

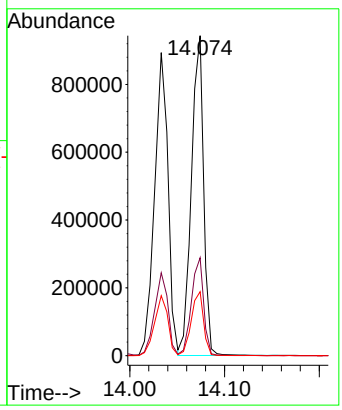




#83
Chrysene
Concen: 58.311 ng
RT: 14.074 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF133959.D
Acq: 26 Jun 2023 18:47

Tgt Ion:228 Resp: 85099

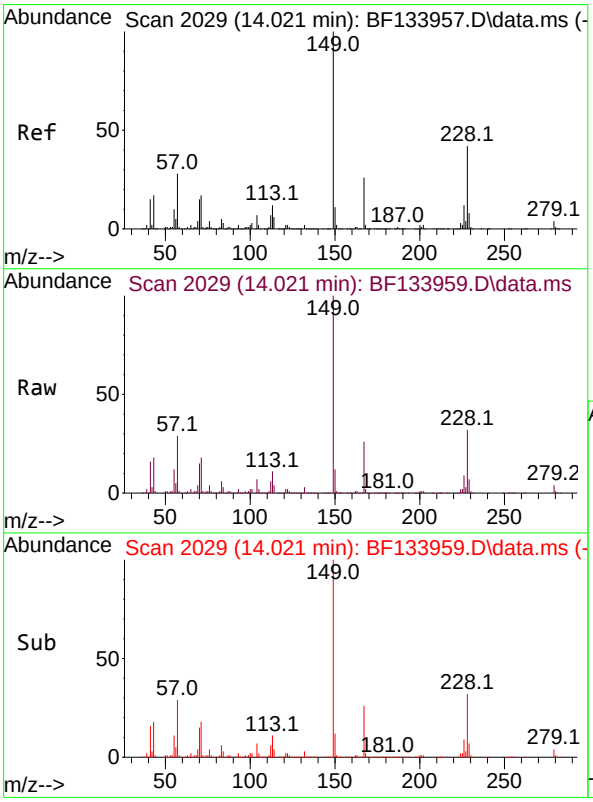
Ion	Ratio	Lower	Upper
228	100		
226	30.6	24.4	36.6
229	20.0	16.1	24.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

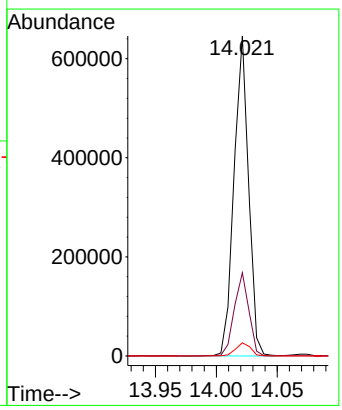
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

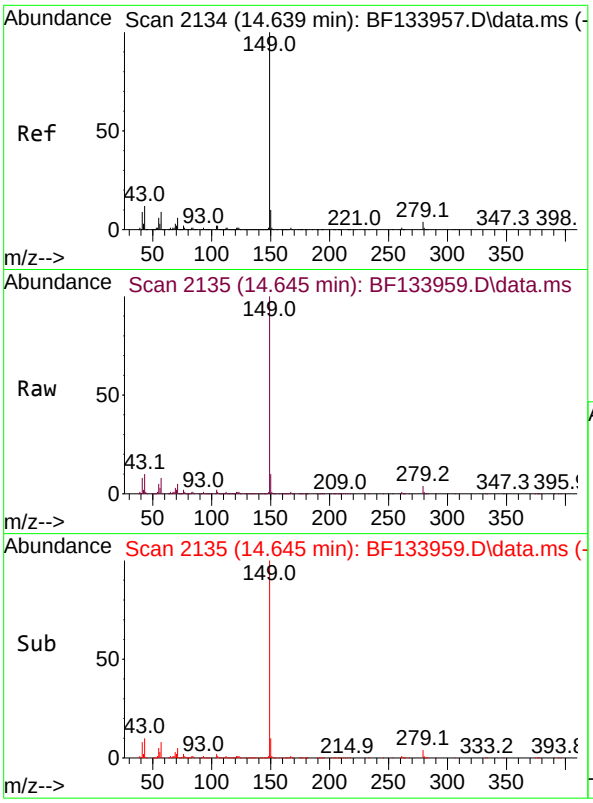


#84
Bis(2-ethylhexyl)phthalate
Concen: 61.486 ng
RT: 14.021 min Scan# 2029
Delta R.T. 0.000 min
Lab File: BF133959.D
Acq: 26 Jun 2023 18:47

Tgt Ion:149 Resp: 535762

Ion	Ratio	Lower	Upper
149	100		
167	26.0	21.0	31.4
279	4.1	3.3	4.9

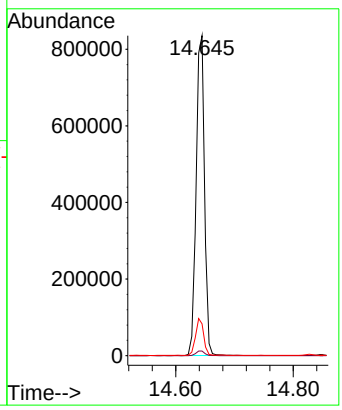




#85
Di-n-octyl phthalate
Concen: 64.323 ng
RT: 14.645 min Scan# 21
Delta R.T. 0.006 min
Lab File: BF133959.D
Acq: 26 Jun 2023 18:47

Tgt Ion:149 Resp: 82355

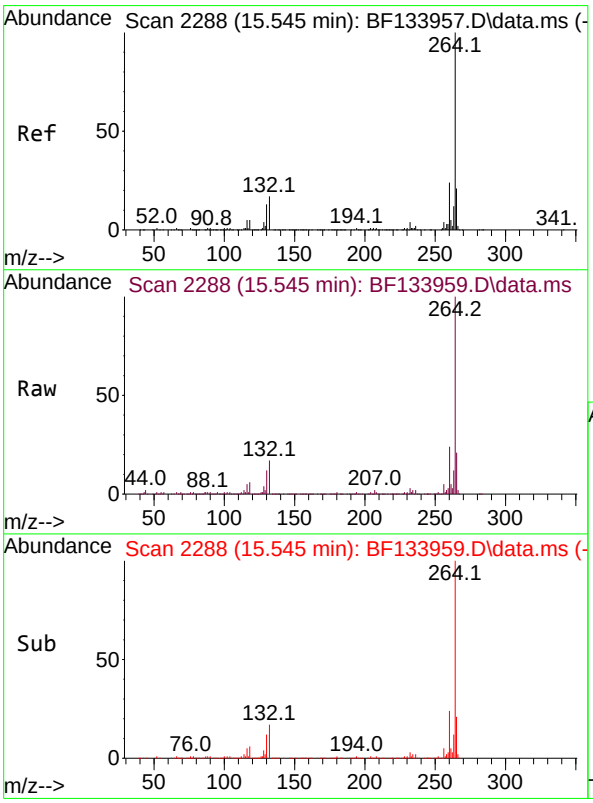
Ion	Ratio	Lower	Upper
149	100		
167	1.5	1.3	1.9
43	11.1	9.0	13.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

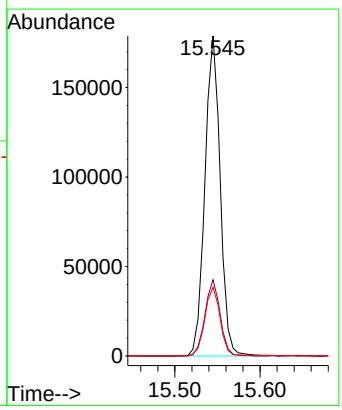
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

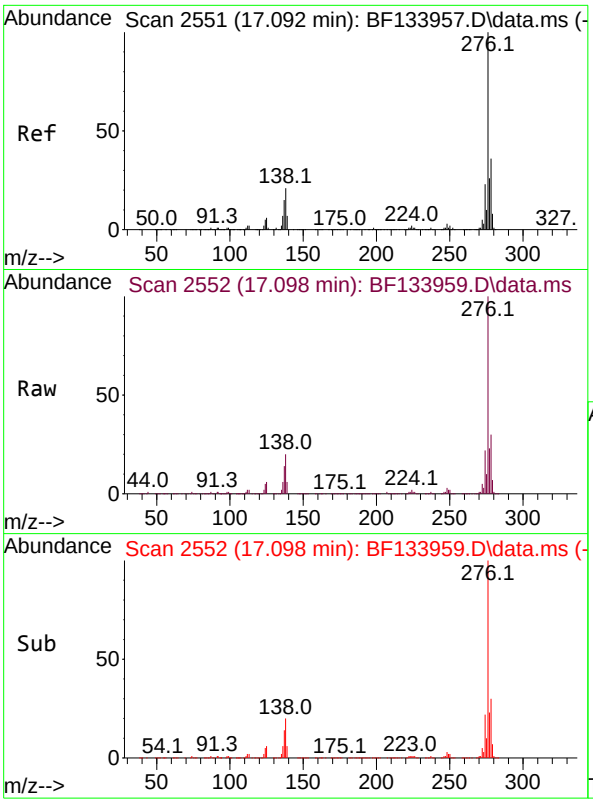


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.545 min Scan# 2288
Delta R.T. 0.000 min
Lab File: BF133959.D
Acq: 26 Jun 2023 18:47

Tgt Ion:264 Resp: 222512

Ion	Ratio	Lower	Upper
264	100		
260	23.8	19.5	29.3
265	21.5	16.6	25.0

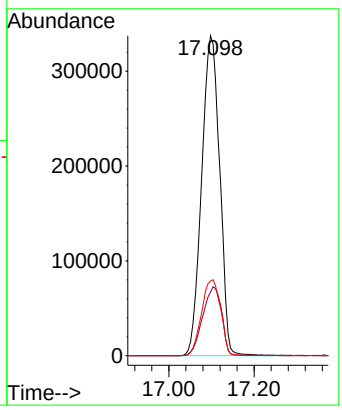




#87
Indeno(1,2,3-cd)pyrene
Concen: 64.315 ng
RT: 17.098 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF133959.D
Acq: 26 Jun 2023 18:47

Tgt Ion:276 Resp: 99302

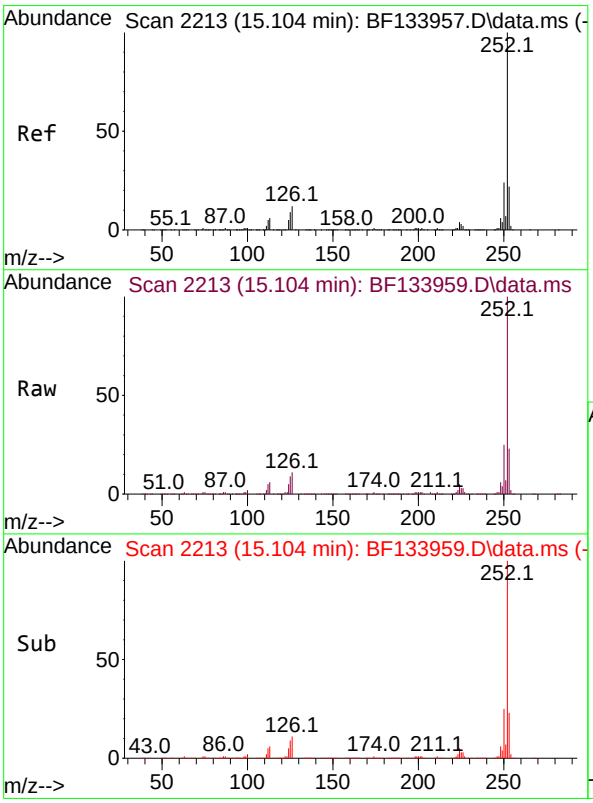
Ion	Ratio	Lower	Upper
276	100		
138	22.6	18.7	28.1
277	25.0	19.9	29.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

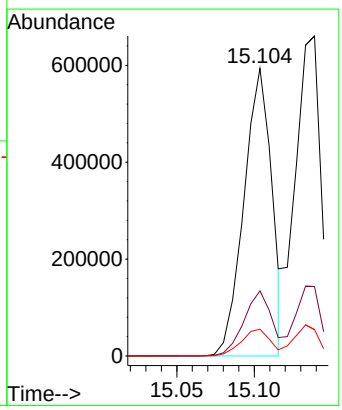
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

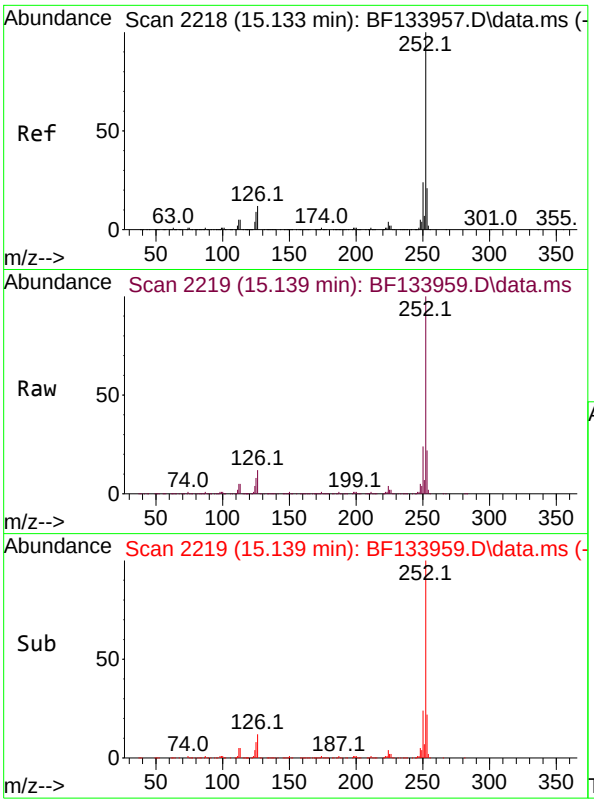


#88
Benzo(b)fluoranthene
Concen: 56.846 ng
RT: 15.104 min Scan# 2213
Delta R.T. 0.000 min
Lab File: BF133959.D
Acq: 26 Jun 2023 18:47

Tgt Ion:252 Resp: 743760

Ion	Ratio	Lower	Upper
252	100		
253	22.7	17.4	26.0
125	9.3	7.1	10.7

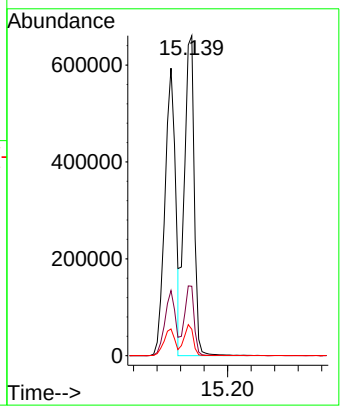




#89
Benzo(k)fluoranthene
Concen: 57.928 ng
RT: 15.139 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF133959.D
Acq: 26 Jun 2023 18:47

Tgt Ion:252 Resp: 77168

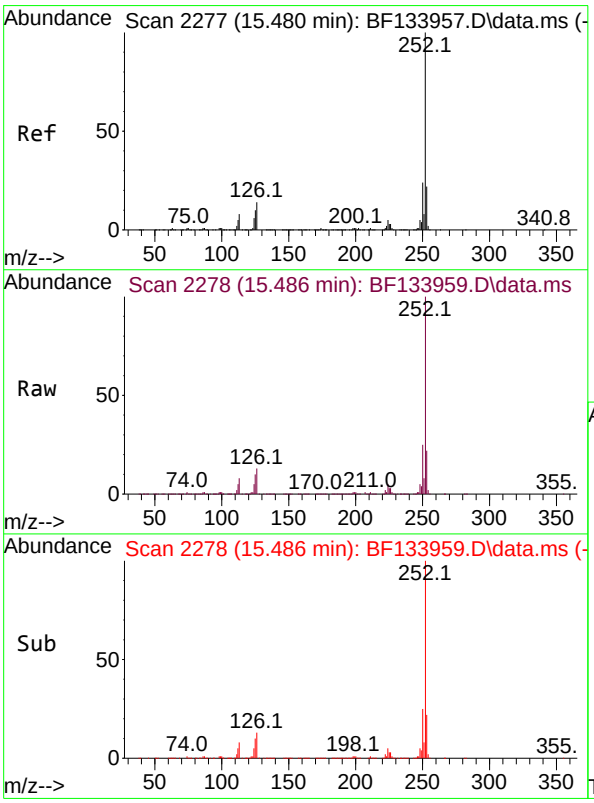
Ion	Ratio	Lower	Upper
252	100		
253	21.7	16.9	25.3
125	8.2	7.4	11.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

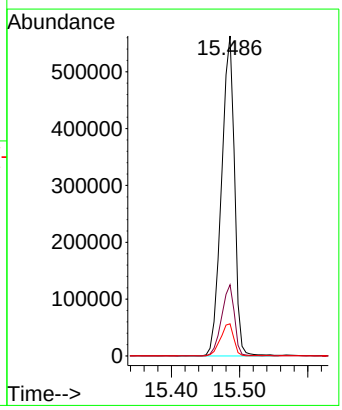
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

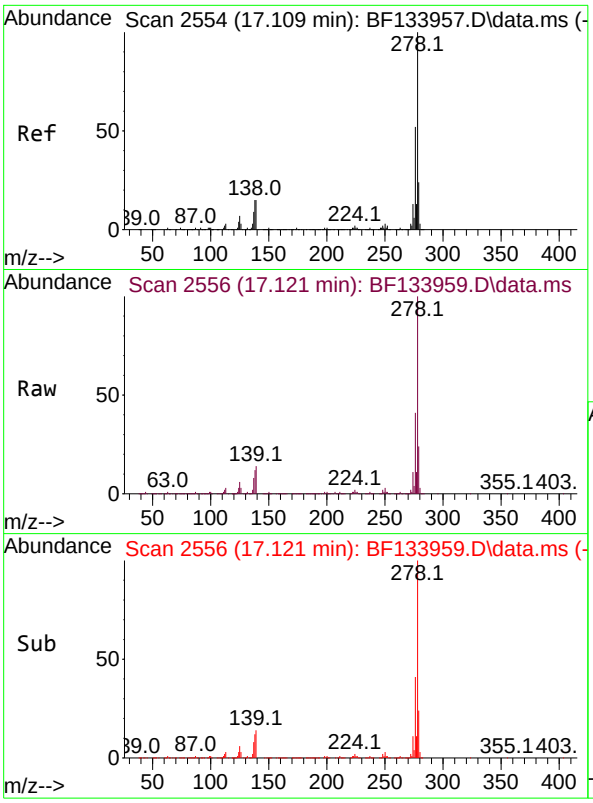


#90
Benzo(a)pyrene
Concen: 59.277 ng
RT: 15.486 min Scan# 2278
Delta R.T. 0.006 min
Lab File: BF133959.D
Acq: 26 Jun 2023 18:47

Tgt Ion:252 Resp: 749975

Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.4	26.0
125	10.1	8.4	12.6

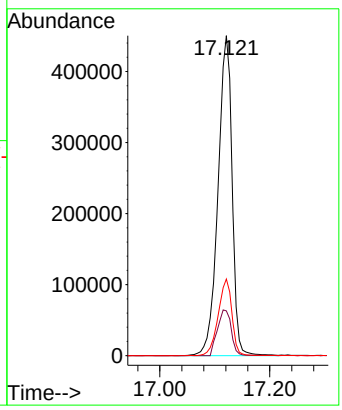




#91
Dibenzo(a,h)anthracene
Concen: 63.517 ng
RT: 17.121 min Scan# 2
Delta R.T. 0.012 min
Lab File: BF133959.D
Acq: 26 Jun 2023 18:47

Tgt Ion:278 Resp: 80103

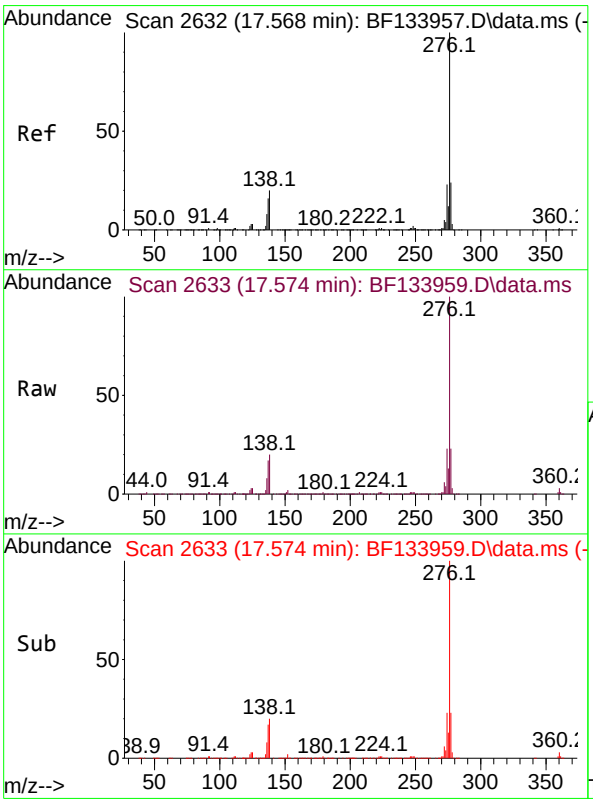
Ion	Ratio	Lower	Upper
278	100		
139	14.0	12.2	18.4
279	24.0	19.4	29.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

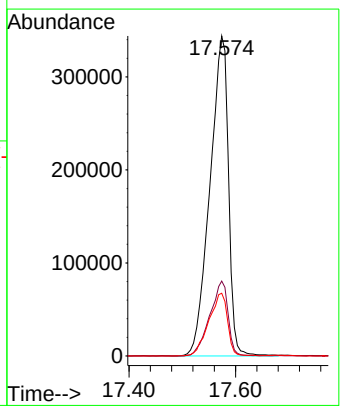
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023



#92
Benzo(g,h,i)perylene
Concen: 64.003 ng
RT: 17.574 min Scan# 2633
Delta R.T. 0.006 min
Lab File: BF133959.D
Acq: 26 Jun 2023 18:47

Tgt Ion:276 Resp: 832374

Ion	Ratio	Lower	Upper
276	100		
277	23.4	19.0	28.6
138	19.6	16.2	24.2



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF062623\
Data File : BF133960.D
Acq On : 26 Jun 2023 19:21
Operator : CG\JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 26 23:08:42 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF062623.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Jun 26 22:39:13 2023
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.851	152	123745	20.000	ng		0.00
21) Naphthalene-d8	8.134	136	439759	20.000	ng		0.00
39) Acenaphthene-d10	9.892	164	219649	20.000	ng		0.00
64) Phenanthrene-d10	11.386	188	421294	20.000	ng		0.00
76) Chrysene-d12	14.045	240	211616	20.000	ng		0.00
86) Perylene-d12	15.545	264	240271	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.487	112	1023930	138.413	ng		0.00
7) Phenol-d6	6.504	99	1262165	138.736	ng		0.01
23) Nitrobenzene-d5	7.428	82	1188822	145.725	ng		0.01
42) 2,4,6-Tribromophenol	10.692	330	396104	143.831	ng		0.00
45) 2-Fluorobiphenyl	9.216	172	2010526	133.080	ng		0.00
79) Terphenyl-d14	12.986	244	1957634	148.885	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.628	88	222344	72.893	ng		99
3) Pyridine	3.416	79	619162	77.670	ng		98
4) n-Nitrosodimethylamine	3.399	42	353019	77.796	ng		95
6) Aniline	6.534	93	787974	71.177	ng		100
8) 2-Chlorophenol	6.645	128	512944	68.306	ng		100
10) Phenol	6.516	94	642005	67.117	ng		86
11) bis(2-Chloroethyl)ether	6.598	93	498504	70.787	ng		100
12) 1,3-Dichlorobenzene	6.798	146	560242	69.978	ng		97
13) 1,4-Dichlorobenzene	6.875	146	557211	68.907	ng		98
14) 1,2-Dichlorobenzene	7.028	146	503621	66.500	ng		100
15) Benzyl Alcohol	7.004	79	485424	69.213	ng		98
16) 2,2'-oxybis(1-Chloropr...	7.134	45	862672	69.243	ng		99
17) 2-Methylphenol	7.110	107	480788	71.497	ng		98
18) Hexachloroethane	7.363	117	211576	70.564	ng		97
19) n-Nitroso-di-n-propyla...	7.281	70	389989	67.596	ng		99
20) 3+4-Methylphenols	7.269	107	530120	64.981	ng		94
22) Acetophenone	7.269	105	684856	68.477	ng	#	96
24) Nitrobenzene	7.445	77	602240	73.053	ng		95
25) Isophorone	7.681	82	1106905	74.657	ng		99
26) 2-Nitrophenol	7.751	139	303768	76.812	ng		94
27) 2,4-Dimethylphenol	7.792	122	453400	72.428	ng		97
28) bis(2-Chloroethoxy)met...	7.886	93	616566	71.819	ng		100
29) 2,4-Dichlorophenol	7.998	162	445522	71.771	ng		97
30) 1,2,4-Trichlorobenzene	8.075	180	460595	71.910	ng		99
31) Naphthalene	8.157	128	1468561	69.136	ng		99
32) Benzoic acid	7.945	122	395741m	86.030	ng		
33) 4-Chloroaniline	8.210	127	647849	71.299	ng		99
34) Hexachlorobutadiene	8.269	225	287456	71.145	ng		98
35) Caprolactam	8.610	113	155369m	76.016	ng		
36) 4-Chloro-3-methylphenol	8.698	107	509026	72.994	ng		98
37) 2-Methylnaphthalene	8.851	142	1029791	68.556	ng		99
38) 1-Methylnaphthalene	8.951	142	956305	68.481	ng		99
40) 1,2,4,5-Tetrachloroben...	9.016	216	463542	71.232	ng		99
41) Hexachlorocyclopentadiene	8.998	237	270008	87.459	ng		99
43) 2,4,6-Trichlorophenol	9.128	196	322403	72.779	ng		99
44) 2,4,5-Trichlorophenol	9.169	196	378609	72.659	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF062623\
Data File : BF133960.D
Acq On : 26 Jun 2023 19:21
Operator : CG\JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 26 23:08:42 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF062623.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Jun 26 22:39:13 2023
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) 1,1'-Biphenyl	9.316	154	1211668	68.769	ng		98
47) 2-Chloronaphthalene	9.339	162	904542	70.166	ng		96
48) 2-Nitroaniline	9.439	65	356553	75.890	ng		99
49) Acenaphthylene	9.757	152	1495956	67.930	ng		99
50) Dimethylphthalate	9.628	163	1149283	72.081	ng		99
51) 2,6-Dinitrotoluene	9.686	165	250101	72.828	ng	#	87
52) Acenaphthene	9.933	154	894241	69.981	ng		99
53) 3-Nitroaniline	9.857	138	307824	74.717	ng		98
54) 2,4-Dinitrophenol	9.963	184	154482	77.995	ng		97
55) Dibenzofuran	10.104	168	1330615	66.629	ng		99
56) 4-Nitrophenol	10.022	139	222158	77.090	ng		94
57) 2,4-Dinitrotoluene	10.092	165	319832	70.521	ng	#	84
58) Fluorene	10.451	166	1041383	67.027	ng		99
59) 2,3,4,6-Tetrachlorophenol	10.222	232	297908	72.479	ng		98
60) Diethylphthalate	10.322	149	1144865	68.920	ng		100
61) 4-Chlorophenyl-phenyle...	10.439	204	502170	67.068	ng		98
62) 4-Nitroaniline	10.480	138	301617	72.645	ng		99
63) Azobenzene	10.598	77	1123914	71.527	ng		95
65) 4,6-Dinitro-2-methylph...	10.504	198	193590	84.284	ng		79
66) n-Nitrosodiphenylamine	10.563	169	963438	71.575	ng		99
67) 4-Bromophenyl-phenylether	10.927	248	330523	73.813	ng		92
68) Hexachlorobenzene	10.998	284	348030	73.201	ng		93
69) Atrazine	11.092	200	256413	68.868	ng		98
70) Pentachlorophenol	11.192	266	227788	80.129	ng		97
71) Phenanthrene	11.416	178	1475753	69.583	ng		100
72) Anthracene	11.469	178	1513696	68.619	ng		100
73) Carbazole	11.622	167	1406753	69.672	ng		99
74) Di-n-butylphthalate	11.951	149	1667024	69.427	ng		98
75) Fluoranthene	12.610	202	1511710	65.931	ng		99
77) Benzidine	12.727	184	353863	70.277	ng		98
78) Pyrene	12.839	202	1525478	77.460	ng		99
80) Butylbenzylphthalate	13.463	149	563950	76.353	ng		94
81) Benzo(a)anthracene	14.033	228	1072359	73.069	ng		99
82) 3,3'-Dichlorobenzidine	13.998	252	325254	69.952	ng	#	97
83) Chrysene	14.074	228	1044236	73.462	ng		100
84) Bis(2-ethylhexyl)phtha...	14.021	149	651991	76.822	ng		99
85) Di-n-octyl phthalate	14.645	149	1080705	86.660	ng		100
87) Indeno(1,2,3-cd)pyrene	17.104	276	1393036	83.553	ng		99
88) Benzo(b)fluoranthene	15.104	252	1054653	74.649	ng		98
89) Benzo(k)fluoranthene	15.139	252	984683	68.454	ng		98
90) Benzo(a)pyrene	15.486	252	1022180	74.821	ng		98
91) Dibenzo(a,h)anthracene	17.133	278	1108556	81.405	ng		98
92) Benzo(g,h,i)perylene	17.586	276	1167023	83.102	ng		99

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

ICAL Form

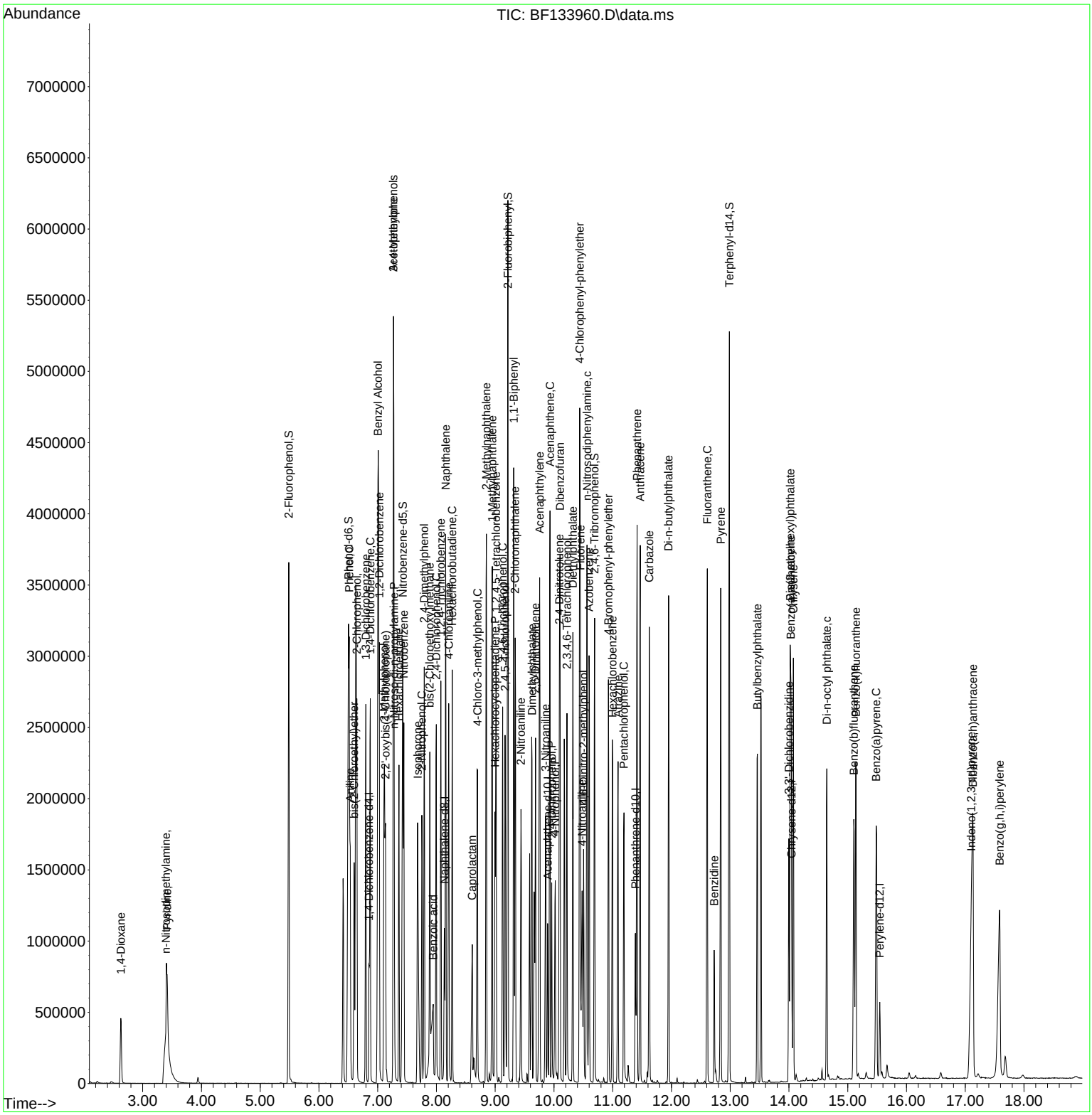
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF062623\
Data File : BF133960.D
Acq On : 26 Jun 2023 19:21
Operator : CG\JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

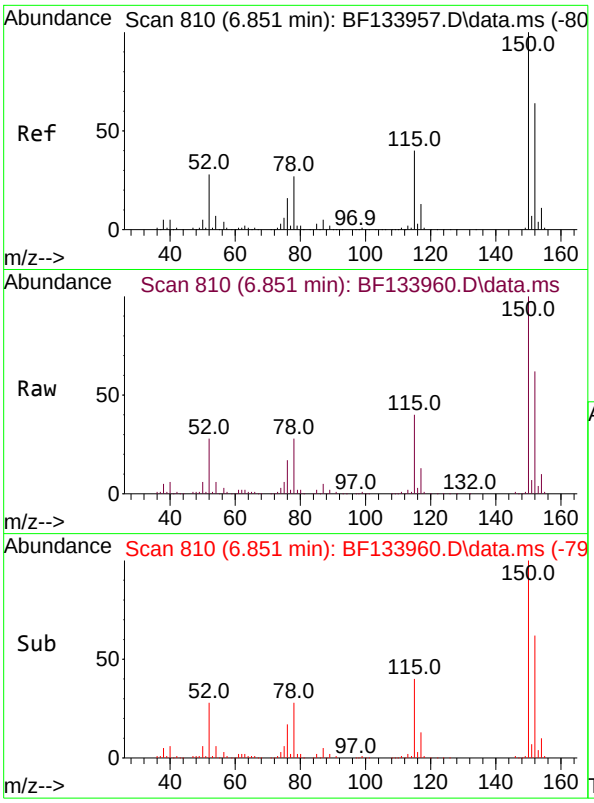
Quant Time: Jun 26 23:08:42 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF062623.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Jun 26 22:39:13 2023
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

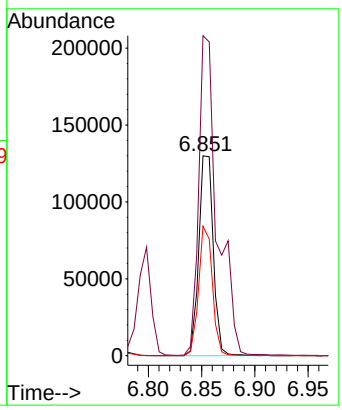




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.851 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF133960.D
Acq: 26 Jun 2023 19:21

Tgt Ion:152 Resp: 12374

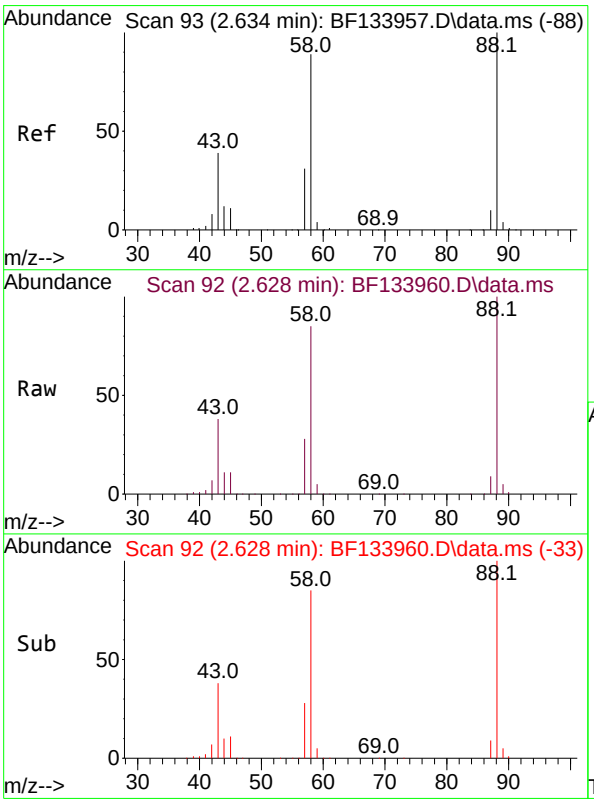
Ion	Ratio	Lower	Upper
152	100		
150	160.1	124.5	186.7
115	64.8	50.2	75.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

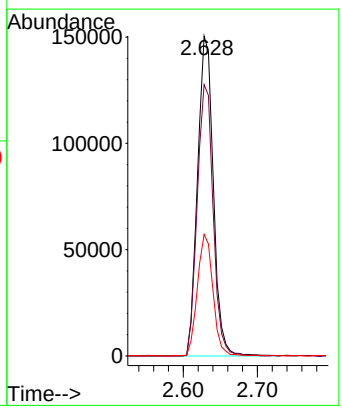
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

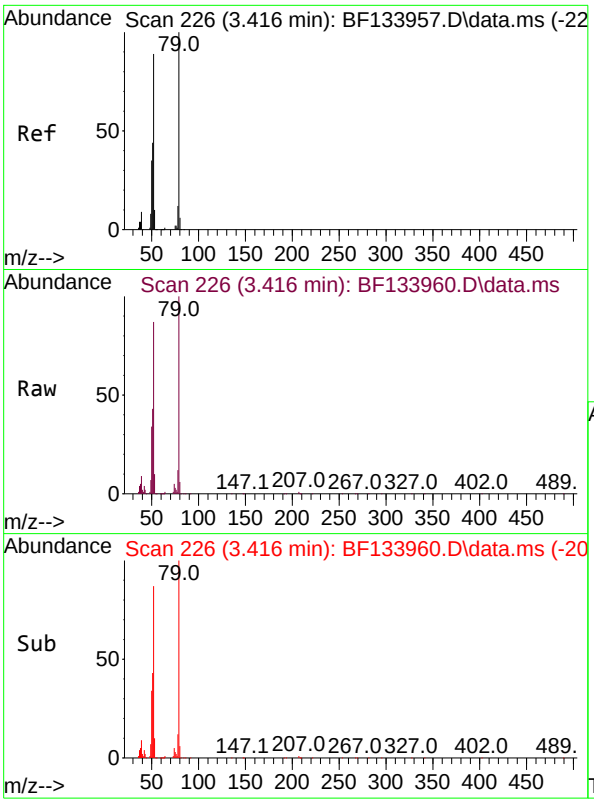


#2
1,4-Dioxane
Concen: 72.893 ng
RT: 2.628 min Scan# 92
Delta R.T. -0.006 min
Lab File: BF133960.D
Acq: 26 Jun 2023 19:21

Tgt Ion: 88 Resp: 222344

Ion	Ratio	Lower	Upper
88	100		
58	85.7	68.8	103.2
43	37.7	30.7	46.1

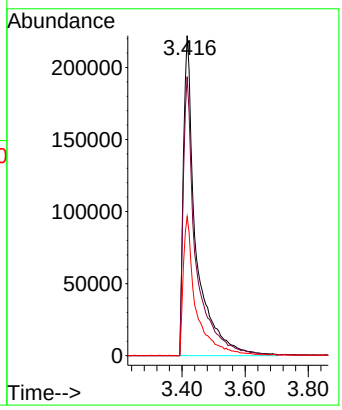




#3
Pyridine
Concen: 77.670 ng
RT: 3.416 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF133960.D
Acq: 26 Jun 2023 19:21

Tgt Ion: 79 Resp: 61916

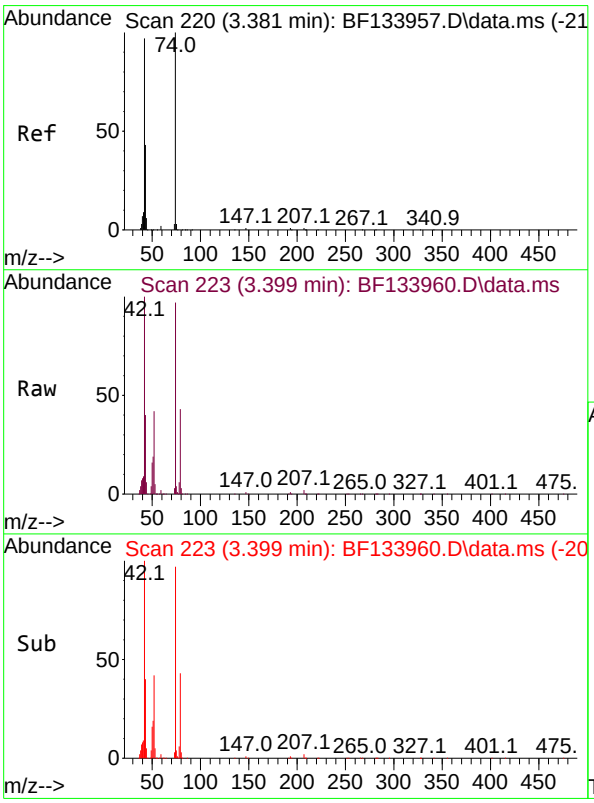
Ion	Ratio	Lower	Upper
79	100		
52	87.2	71.1	106.7
51	43.4	35.2	52.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

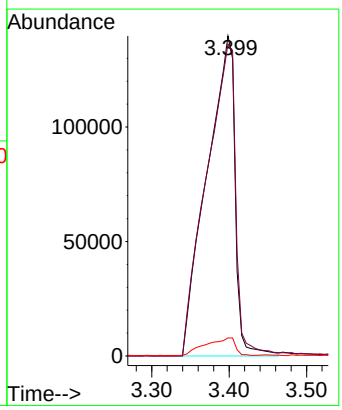
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

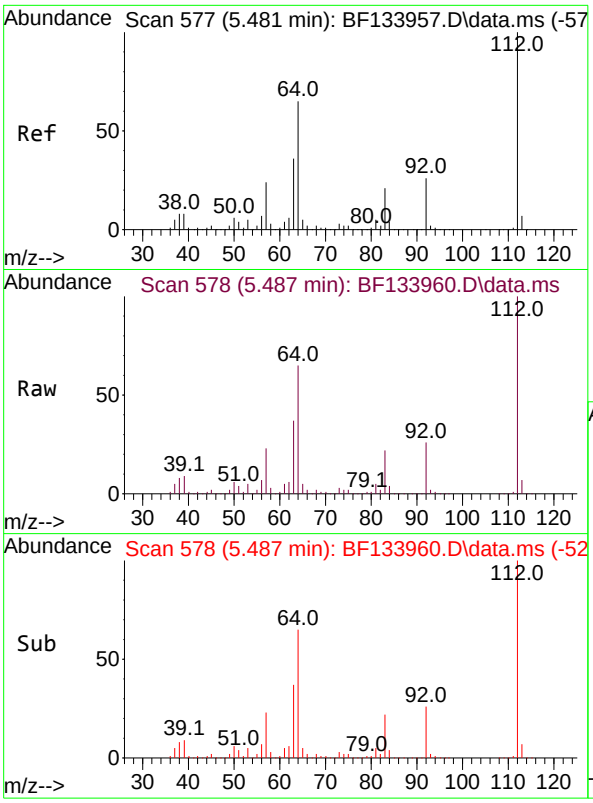


#4
n-Nitrosodimethylamine
Concen: 77.796 ng
RT: 3.399 min Scan# 223
Delta R.T. 0.018 min
Lab File: BF133960.D
Acq: 26 Jun 2023 19:21

Tgt Ion: 42 Resp: 353019

Ion	Ratio	Lower	Upper
42	100		
74	97.5	82.4	123.6
44	5.6	4.9	7.3

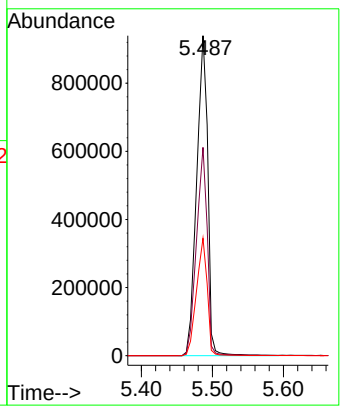




#5
2-Fluorophenol
Concen: 138.413 ng
RT: 5.487 min Scan# 5
Delta R.T. 0.006 min
Lab File: BF133960.D
Acq: 26 Jun 2023 19:21

Tgt Ion:112 Resp: 102393

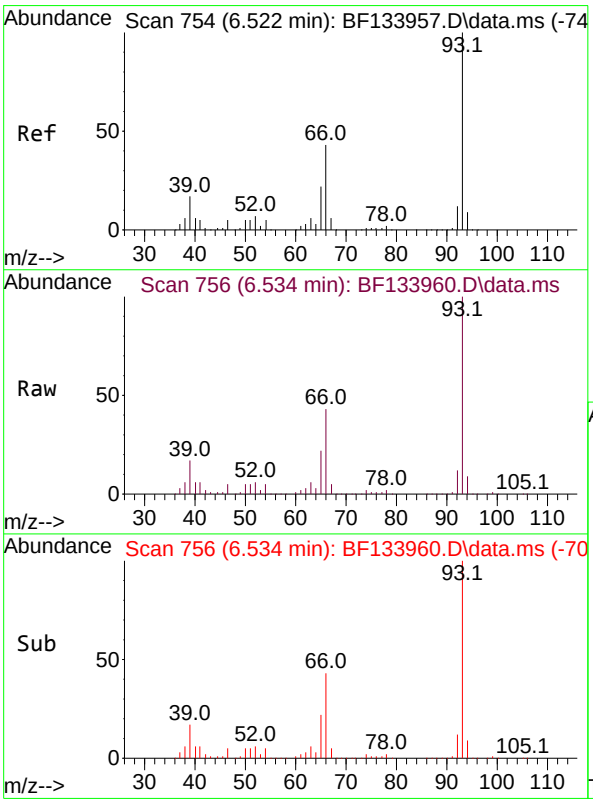
Ion	Ratio	Lower	Upper
112	100		
64	65.1	52.1	78.1
63	36.7	28.6	42.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

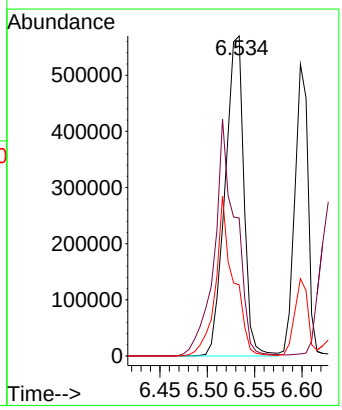
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

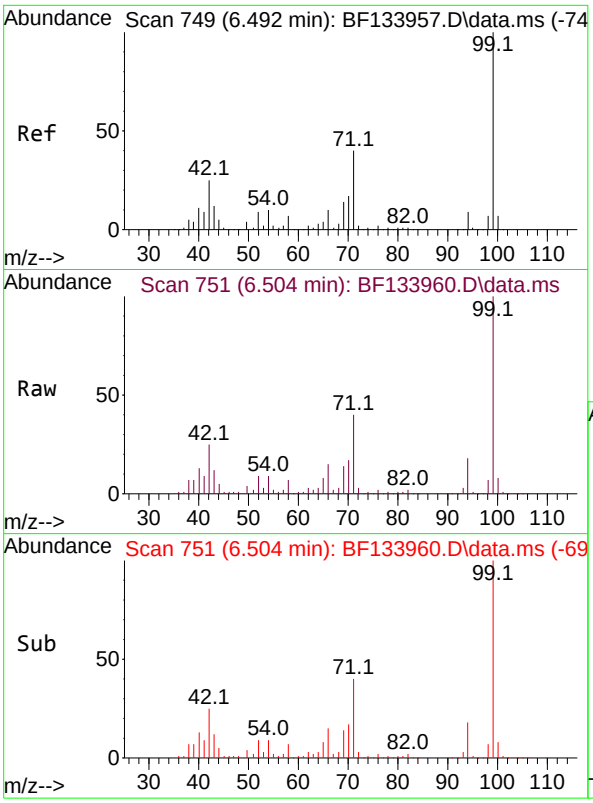


#6
Aniline
Concen: 71.177 ng
RT: 6.534 min Scan# 756
Delta R.T. 0.012 min
Lab File: BF133960.D
Acq: 26 Jun 2023 19:21

Tgt Ion: 93 Resp: 787974

Ion	Ratio	Lower	Upper
93	100		
66	43.1	34.5	51.7
65	22.2	17.8	26.6

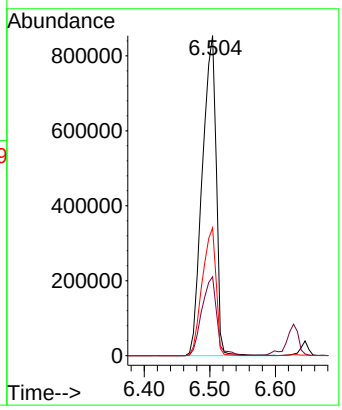




#7
Phenol-d6
Concen: 138.736 ng
RT: 6.504 min Scan# 7
Delta R.T. 0.012 min
Lab File: BF133960.D
Acq: 26 Jun 2023 19:21

Tgt Ion: 99 Resp: 126216

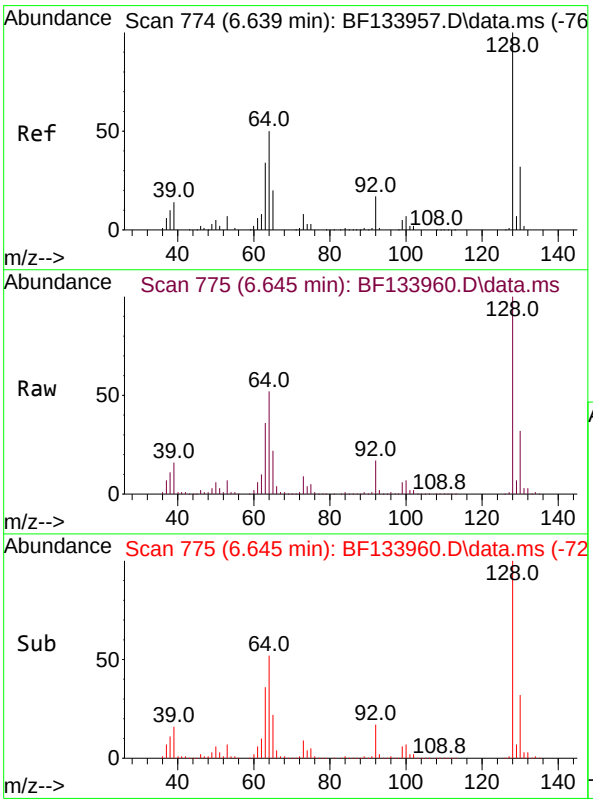
Ion	Ratio	Lower	Upper
99	100		
42	24.7	19.8	29.6
71	39.9	31.9	47.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

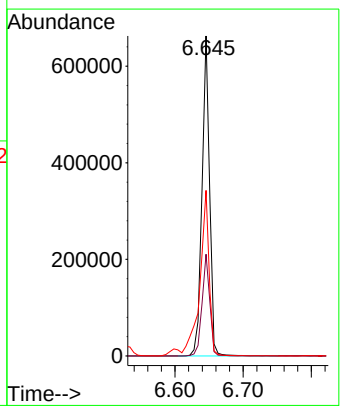
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

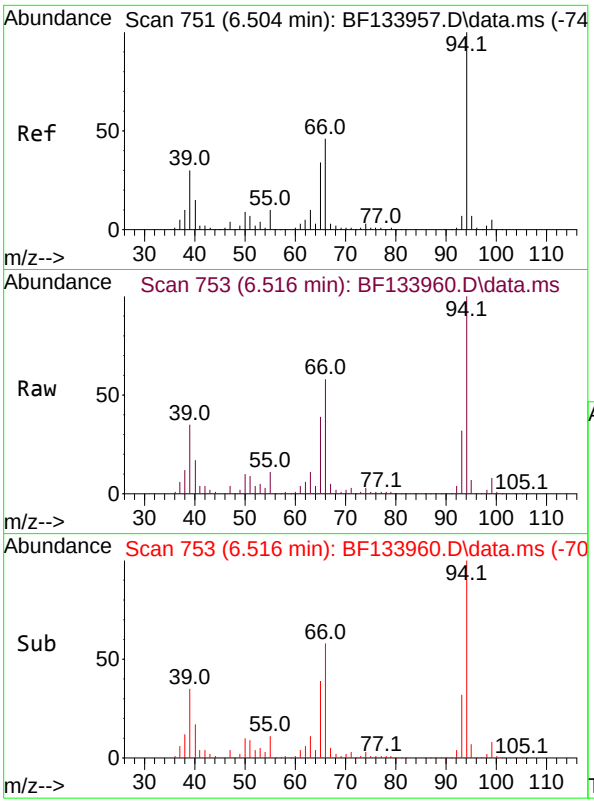


#8
2-Chlorophenol
Concen: 68.306 ng
RT: 6.645 min Scan# 775
Delta R.T. 0.006 min
Lab File: BF133960.D
Acq: 26 Jun 2023 19:21

Tgt Ion:128 Resp: 512944

Ion	Ratio	Lower	Upper
128	100		
130	31.8	11.7	51.7
64	51.8	31.3	71.3

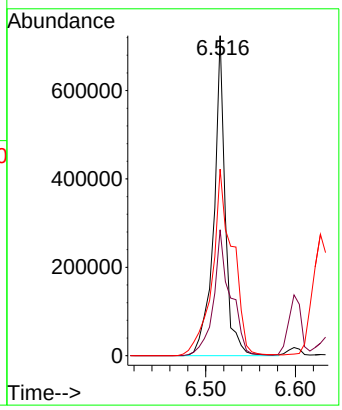




#10
Phenol
Concen: 67.117 ng
RT: 6.516 min Scan# 7
Delta R.T. 0.012 min
Lab File: BF133960.D
Acq: 26 Jun 2023 19:21

Tgt Ion: 94 Resp: 64200

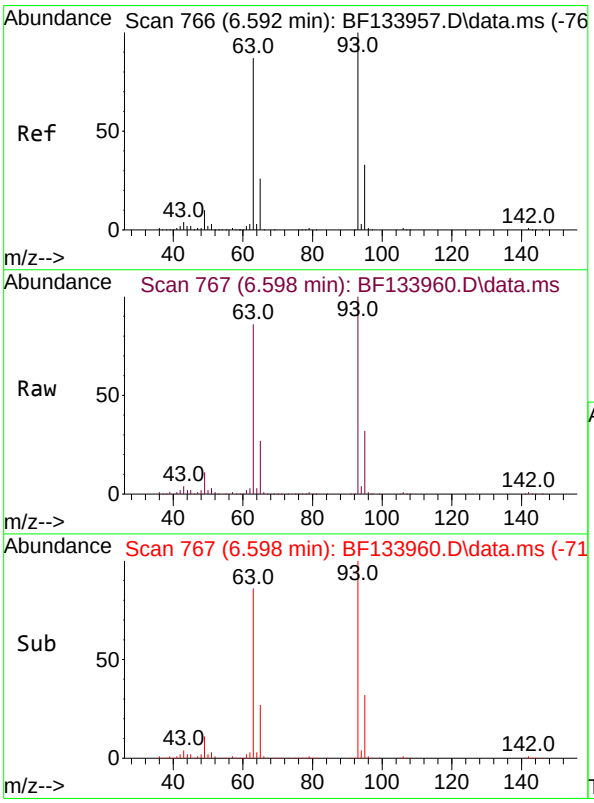
Ion	Ratio	Lower	Upper
94	100		
65	39.4	14.2	54.2
66	58.3	26.4	66.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

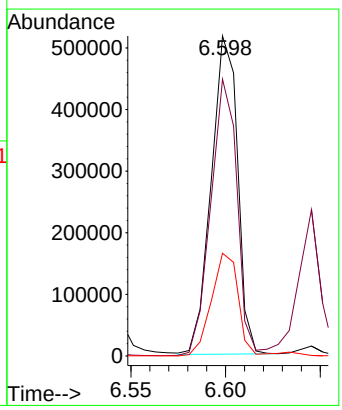
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

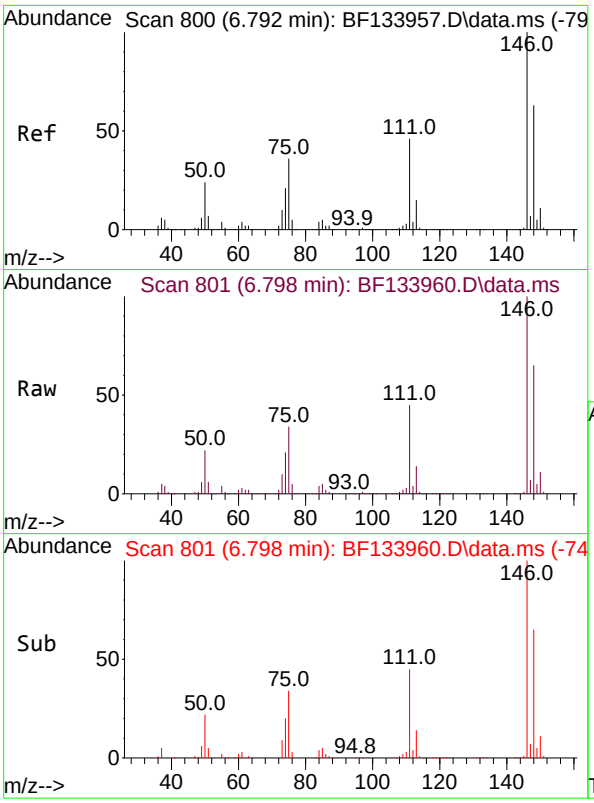


#11
bis(2-Chloroethyl)ether
Concen: 70.787 ng
RT: 6.598 min Scan# 767
Delta R.T. 0.006 min
Lab File: BF133960.D
Acq: 26 Jun 2023 19:21

Tgt Ion: 93 Resp: 498504

Ion	Ratio	Lower	Upper
93	100		
63	86.5	66.5	106.5
95	32.1	12.9	52.9

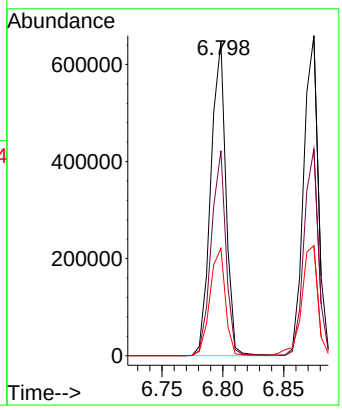




#12
1,3-Dichlorobenzene
Concen: 69.978 ng
RT: 6.798 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF133960.D
Acq: 26 Jun 2023 19:21

Tgt Ion:146 Resp: 56024

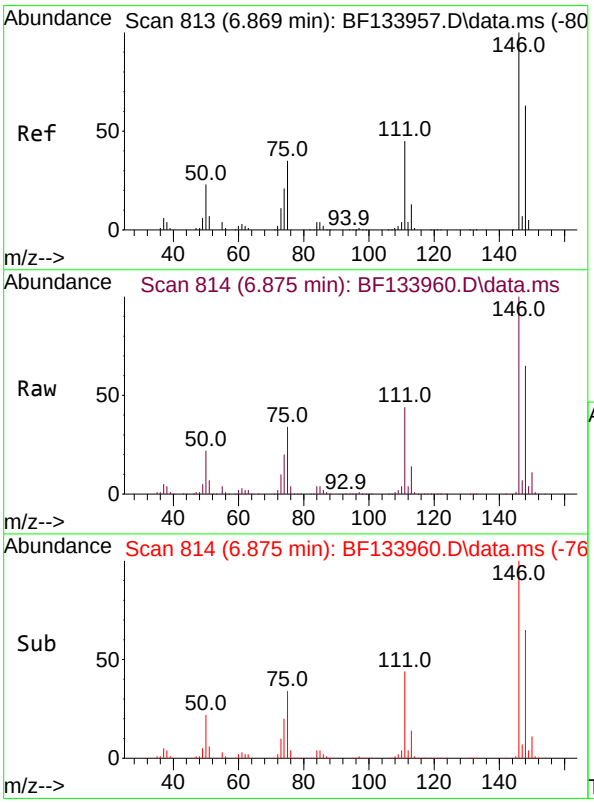
Ion	Ratio	Lower	Upper
146	100		
148	65.2	50.5	75.7
75	34.1	29.0	43.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

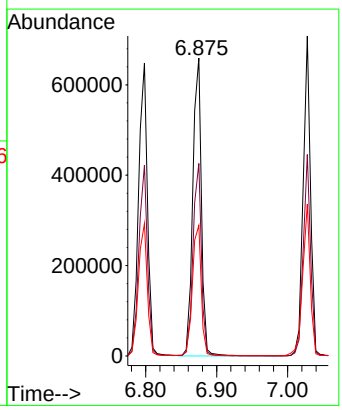
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

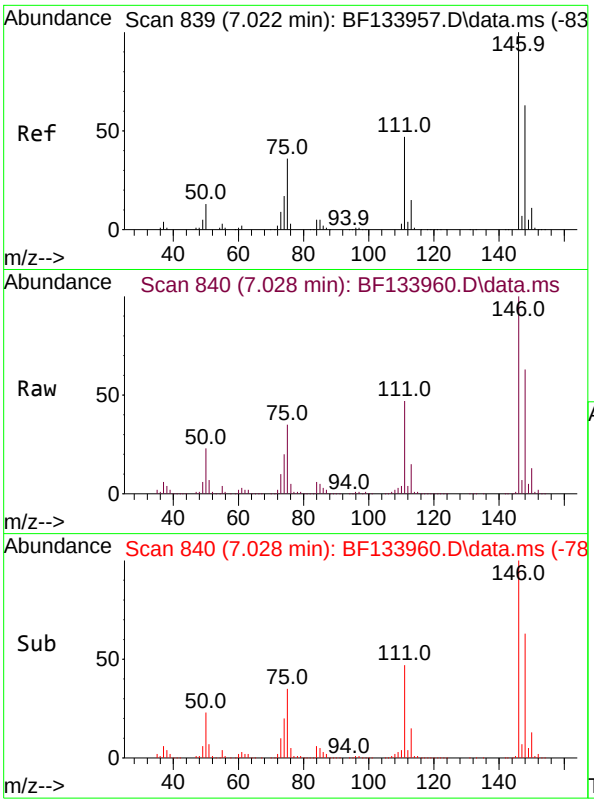


#13
1,4-Dichlorobenzene
Concen: 68.907 ng
RT: 6.875 min Scan# 814
Delta R.T. 0.006 min
Lab File: BF133960.D
Acq: 26 Jun 2023 19:21

Tgt Ion:146 Resp: 557211

Ion	Ratio	Lower	Upper
146	100		
148	64.6	50.2	75.2
111	43.8	35.8	53.6

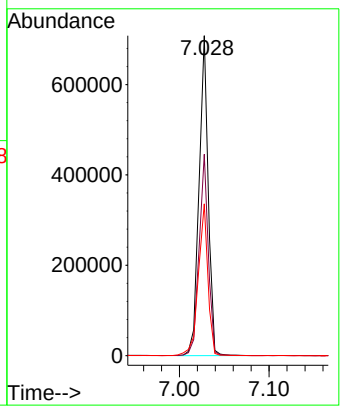




#14
1,2-Dichlorobenzene
Concen: 66.500 ng
RT: 7.028 min Scan# 84
Delta R.T. 0.006 min
Lab File: BF133960.D
Acq: 26 Jun 2023 19:21

Tgt Ion:146 Resp: 50362

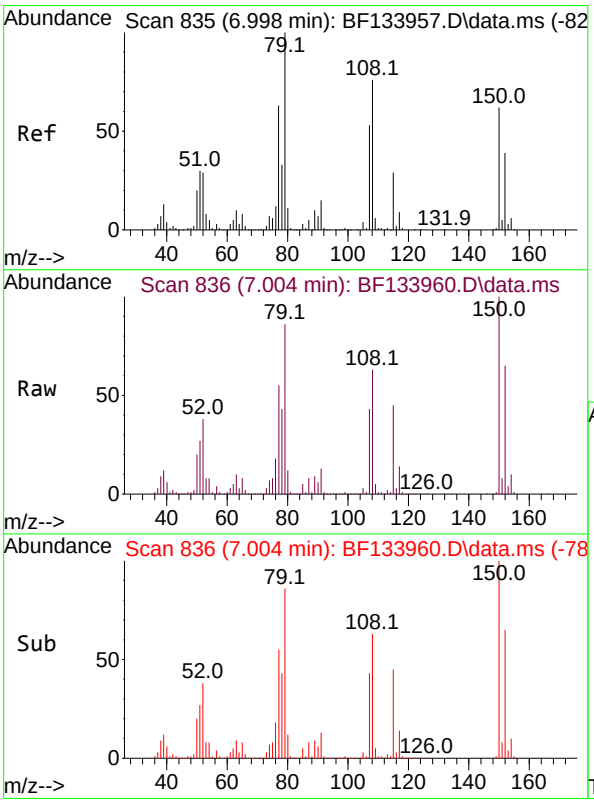
Ion	Ratio	Lower	Upper
146	100		
148	63.0	50.6	76.0
111	47.5	38.0	57.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

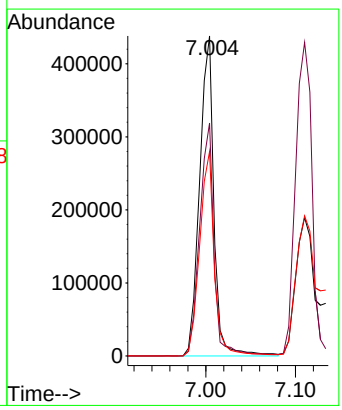
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

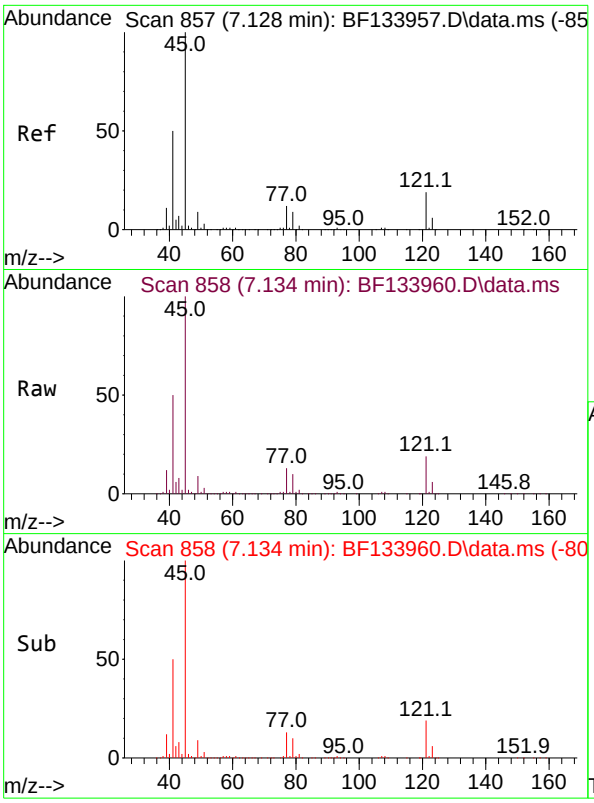


#15
Benzyl Alcohol
Concen: 69.213 ng
RT: 7.004 min Scan# 836
Delta R.T. 0.006 min
Lab File: BF133960.D
Acq: 26 Jun 2023 19:21

Tgt Ion: 79 Resp: 485424

Ion	Ratio	Lower	Upper
79	100		
108	72.8	60.7	91.1
77	63.9	50.6	75.8





#16
2,2'-oxybis(1-Chloropropane)
Concen: 69.243 ng
RT: 7.134 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF133960.D
Acq: 26 Jun 2023 19:21

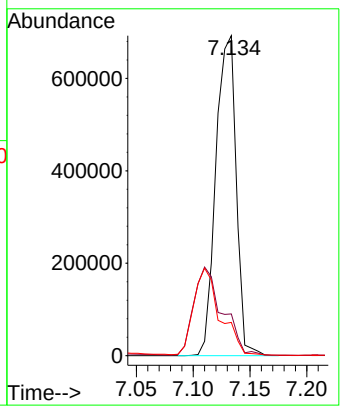
Tgt Ion: 45 Resp: 86267

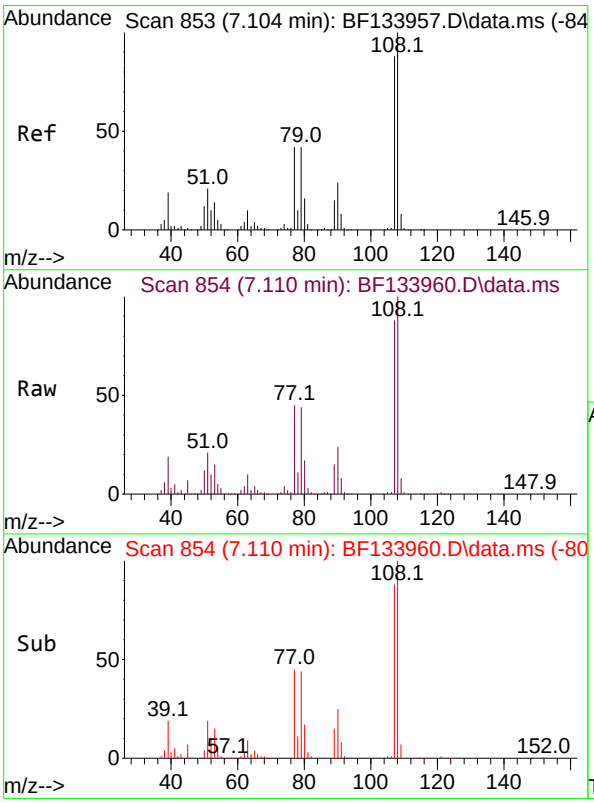
Ion	Ratio	Lower	Upper
45	100		
77	13.0	0.0	32.9
79	10.4	0.0	29.5

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

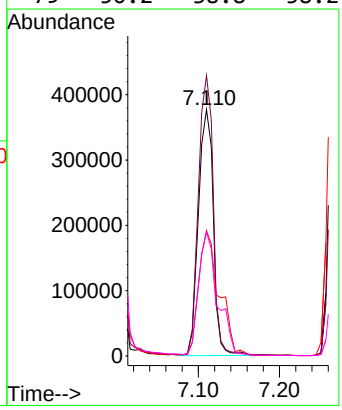


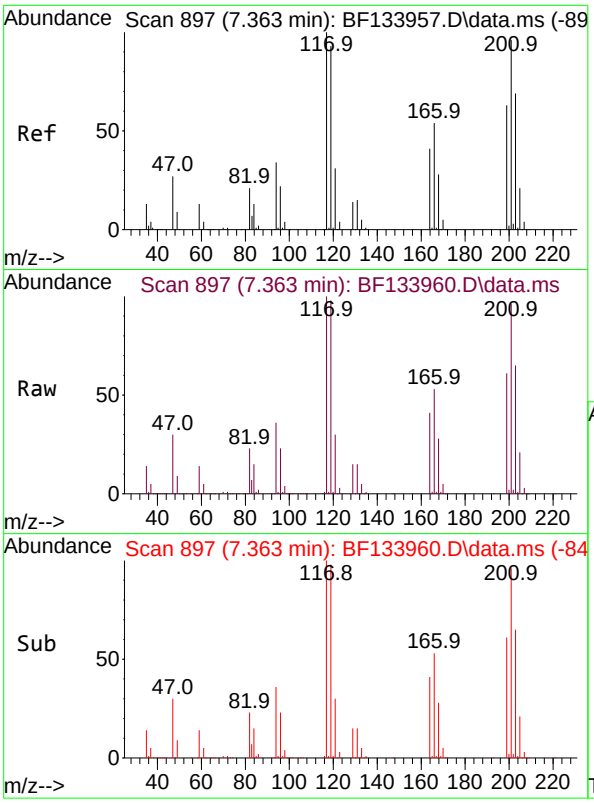


#17
2-Methylphenol
Concen: 71.497 ng
RT: 7.110 min Scan# 854
Delta R.T. 0.006 min
Lab File: BF133960.D
Acq: 26 Jun 2023 19:21

Tgt Ion:107 Resp: 480788

Ion	Ratio	Lower	Upper
107	100		
108	113.8	90.6	136.0
77	50.9	38.3	57.5
79	50.2	38.8	58.2

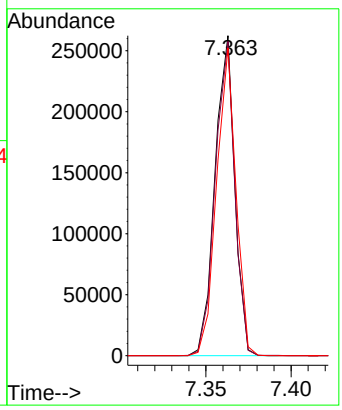




#18
Hexachloroethane
Concen: 70.564 ng
RT: 7.363 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF133960.D
Acq: 26 Jun 2023 19:21

Tgt Ion:117 Resp: 21157

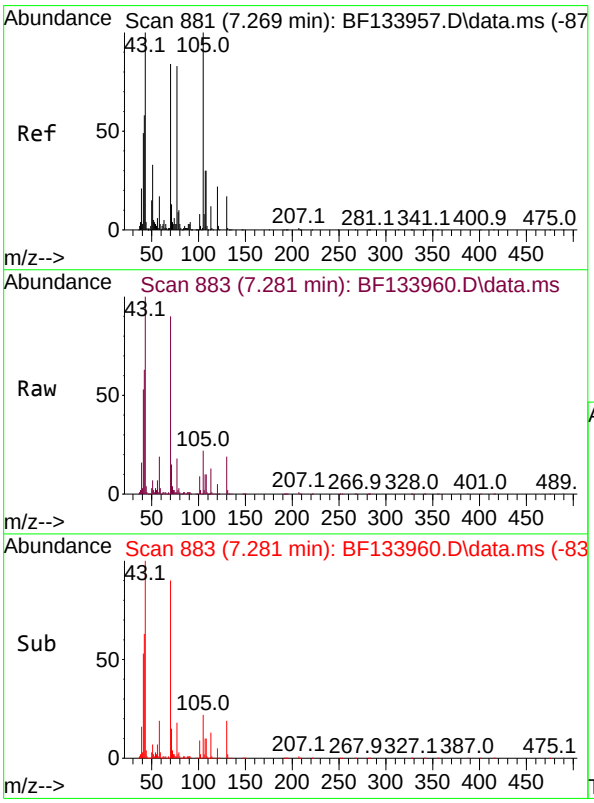
Ion	Ratio	Lower	Upper
117	100		
119	98.2	74.2	111.4
201	96.2	77.2	115.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

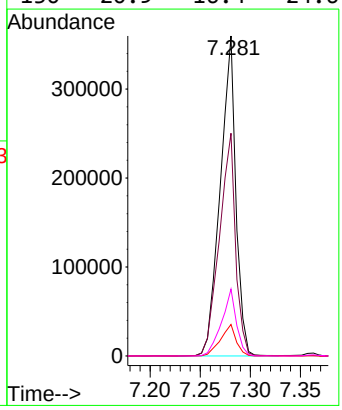
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

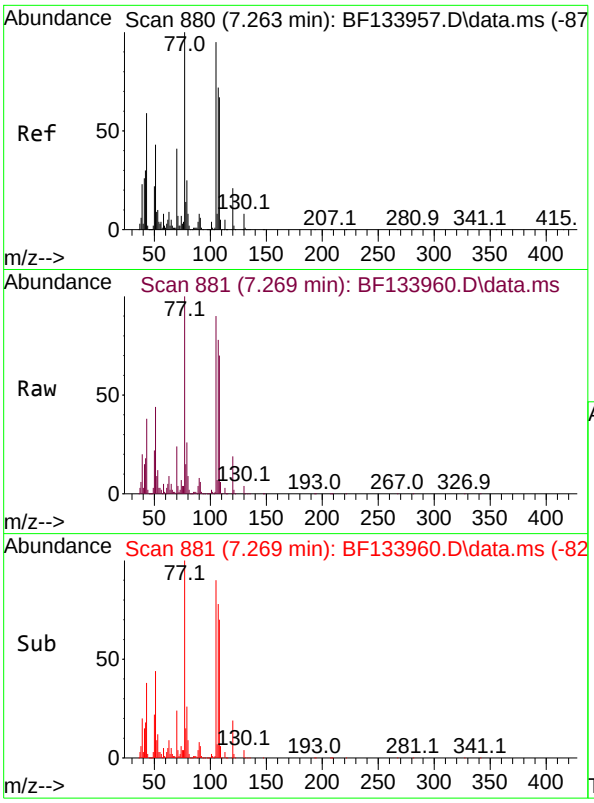


#19
n-Nitroso-di-n-propylamine
Concen: 67.596 ng
RT: 7.281 min Scan# 883
Delta R.T. 0.012 min
Lab File: BF133960.D
Acq: 26 Jun 2023 19:21

Tgt Ion: 70 Resp: 389989

Ion	Ratio	Lower	Upper
70	100		
42	69.6	54.7	82.1
101	9.8	7.7	11.5
130	20.9	16.4	24.6

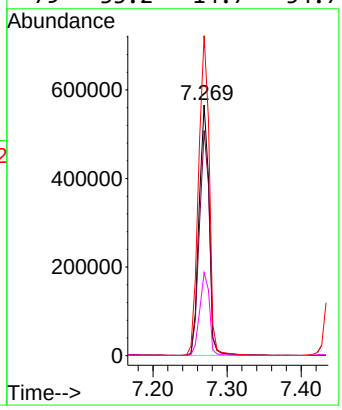




#20
3+4-Methylphenols
Concen: 64.981 ng
RT: 7.269 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF133960.D
Acq: 26 Jun 2023 19:21

Tgt Ion:107 Resp: 53012

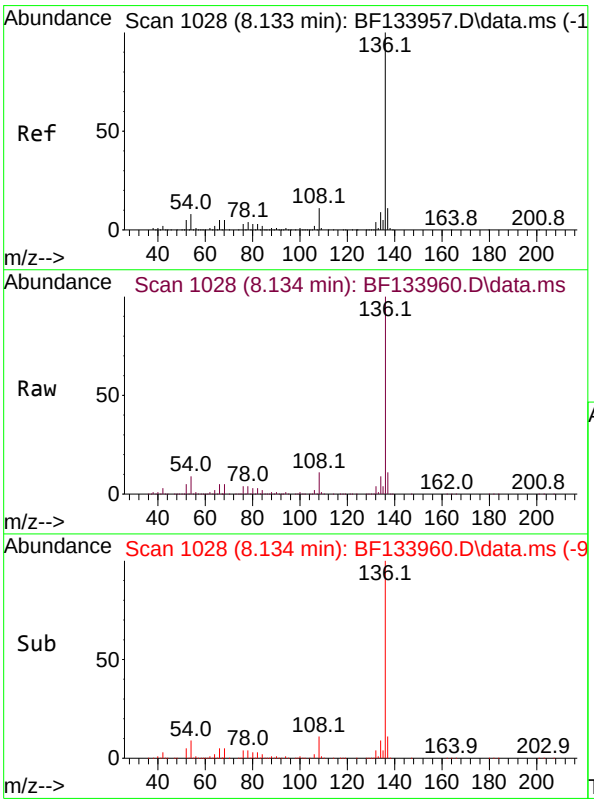
Ion	Ratio	Lower	Upper
107	100		
108	89.9	73.2	113.2
77	127.7	118.3	158.3
79	33.2	14.7	54.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

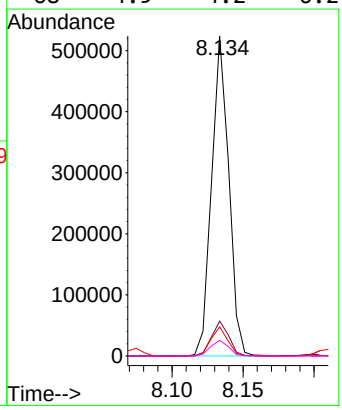
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

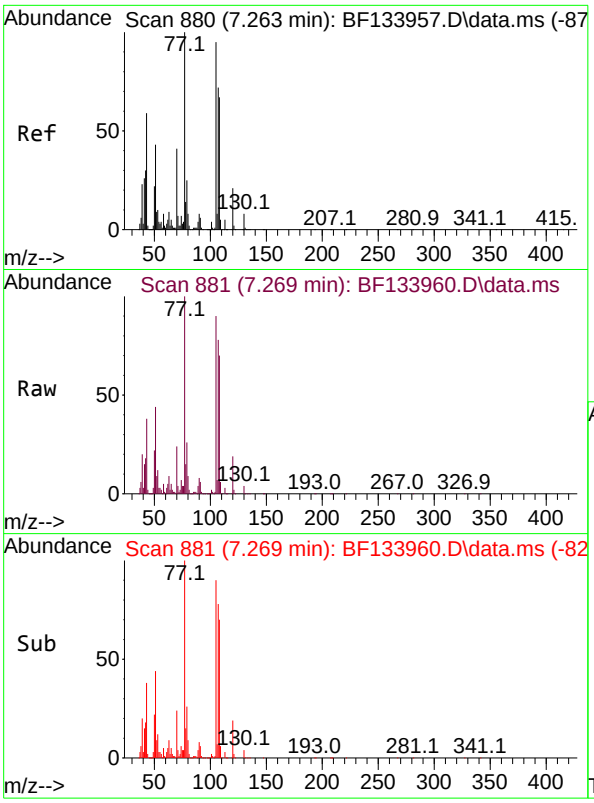


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.134 min Scan# 1028
Delta R.T. 0.000 min
Lab File: BF133960.D
Acq: 26 Jun 2023 19:21

Tgt Ion:136 Resp: 439759

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.6	12.8
54	9.1	6.5	9.7
68	4.9	4.2	6.2

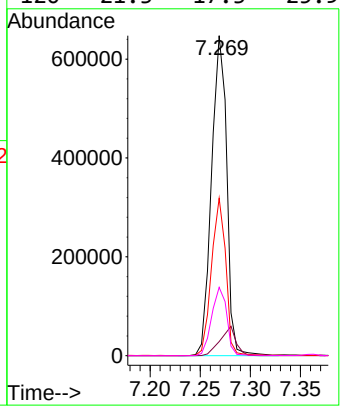




#22
Acetophenone
Concen: 68.477 ng
RT: 7.269 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF133960.D
Acq: 26 Jun 2023 19:21

Tgt Ion:105 Resp: 68485

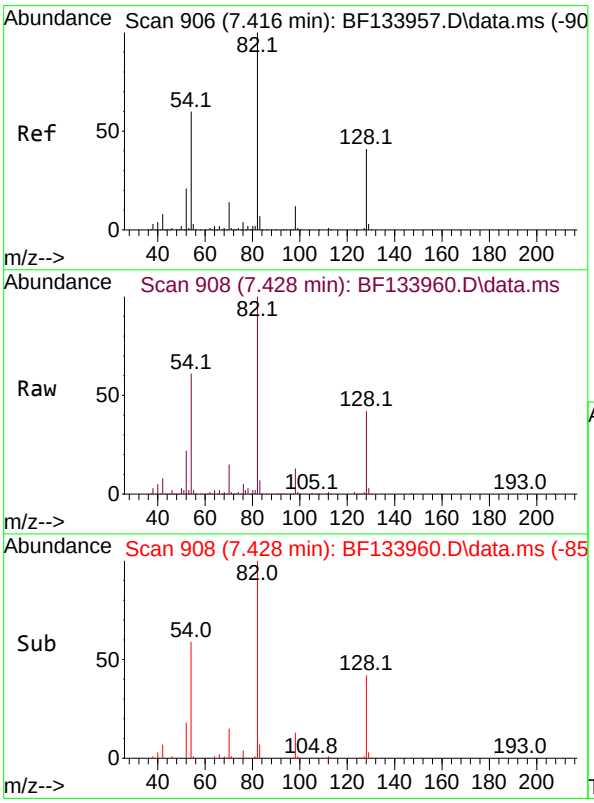
Ion	Ratio	Lower	Upper
105	100		
71	4.4	5.5	8.3#
51	49.2	36.5	54.7
120	21.3	17.3	25.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

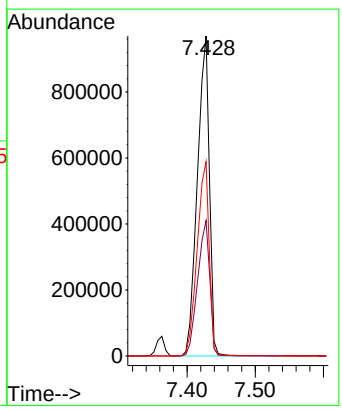
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

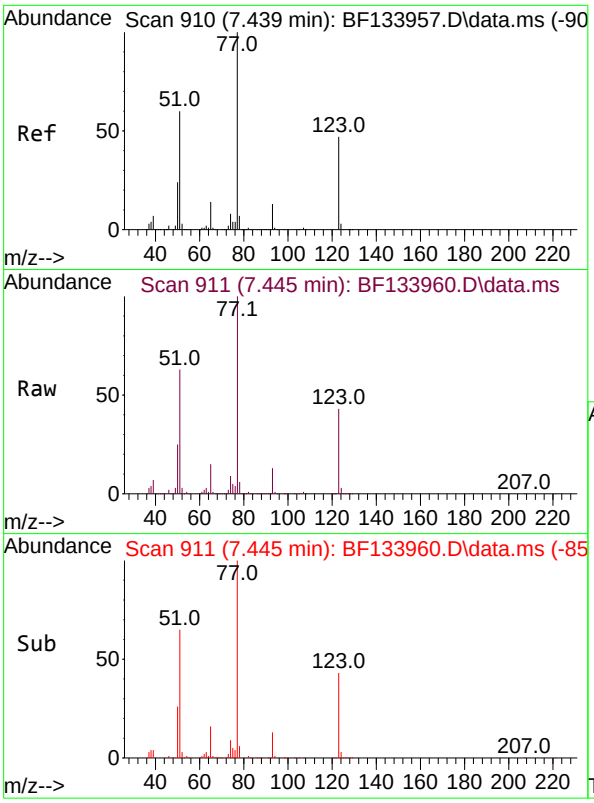


#23
Nitrobenzene-d5
Concen: 145.725 ng
RT: 7.428 min Scan# 908
Delta R.T. 0.012 min
Lab File: BF133960.D
Acq: 26 Jun 2023 19:21

Tgt Ion: 82 Resp: 1188822

Ion	Ratio	Lower	Upper
82	100		
128	42.3	32.5	48.7
54	60.7	48.2	72.2

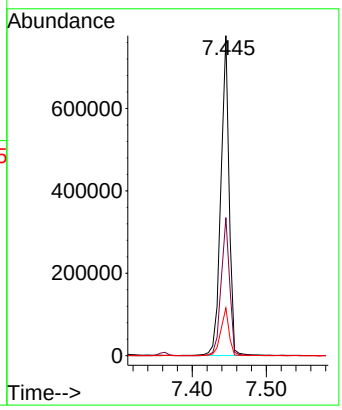




#24
Nitrobenzene
Concen: 73.053 ng
RT: 7.445 min Scan# 9
Delta R.T. 0.006 min
Lab File: BF133960.D
Acq: 26 Jun 2023 19:21

Tgt Ion: 77 Resp: 60224

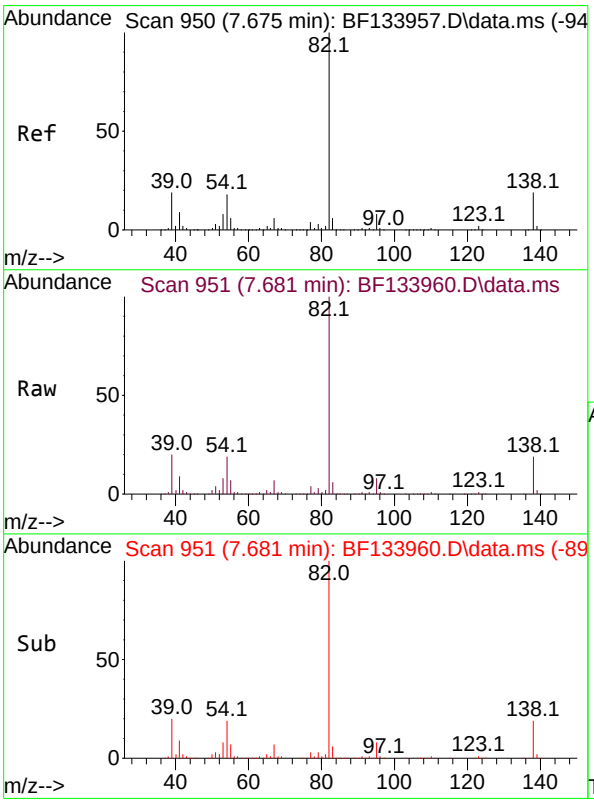
Ion	Ratio	Lower	Upper
77	100		
123	43.1	37.8	56.6
65	14.9	11.3	16.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

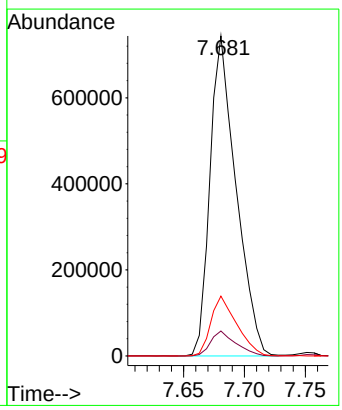
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

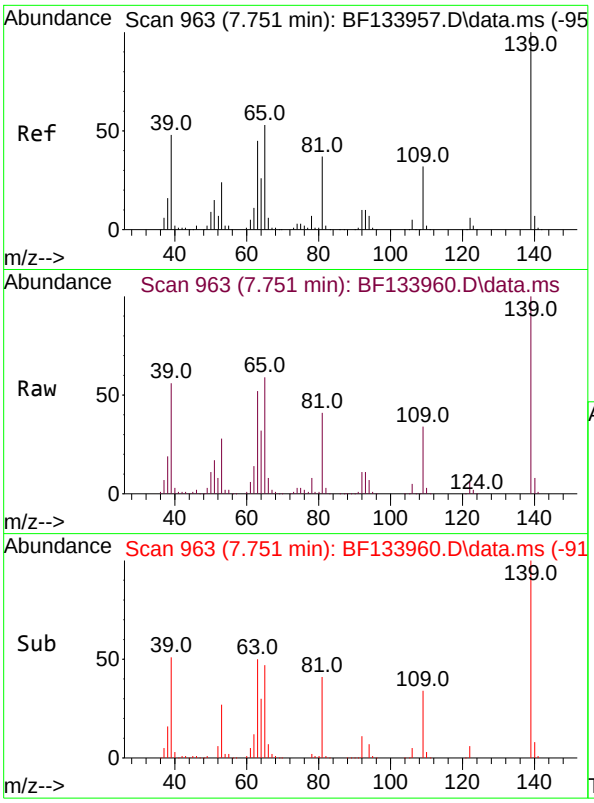


#25
Isophorone
Concen: 74.657 ng
RT: 7.681 min Scan# 951
Delta R.T. 0.006 min
Lab File: BF133960.D
Acq: 26 Jun 2023 19:21

Tgt Ion: 82 Resp: 1106905

Ion	Ratio	Lower	Upper
82	100		
95	7.8	6.1	9.1
138	18.7	15.2	22.8

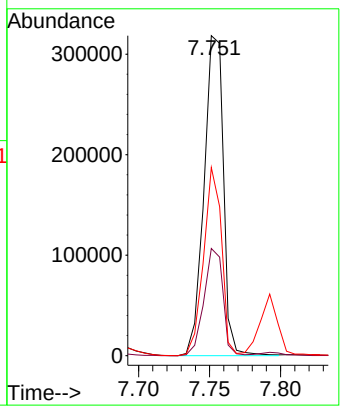




#26
2-Nitrophenol
Concen: 76.812 ng
RT: 7.751 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF133960.D
Acq: 26 Jun 2023 19:21

Tgt Ion:139 Resp: 30376

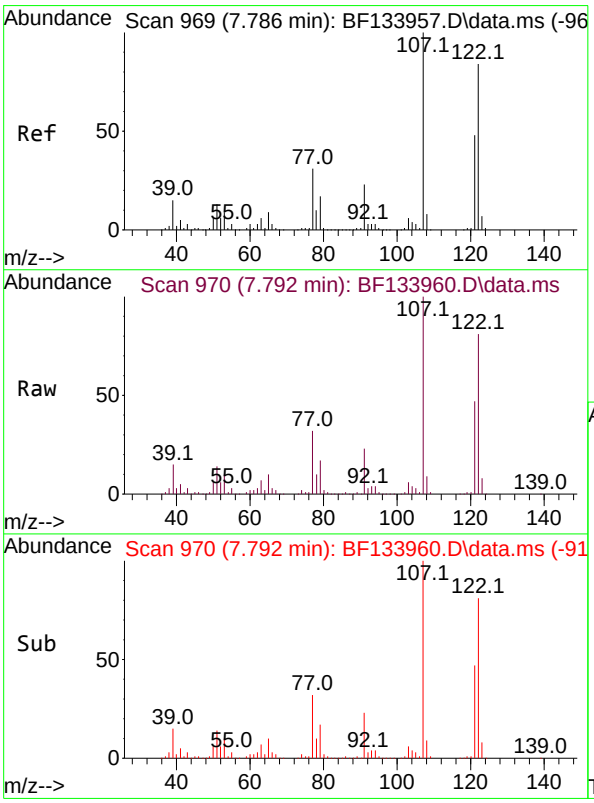
Ion	Ratio	Lower	Upper
139	100		
109	33.5	25.8	38.8
65	58.8	42.4	63.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

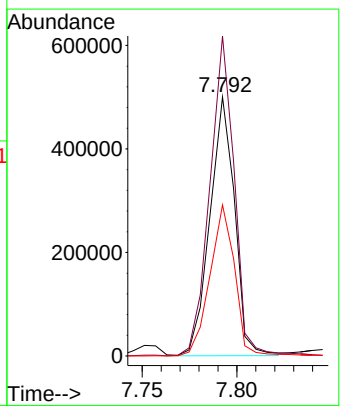
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

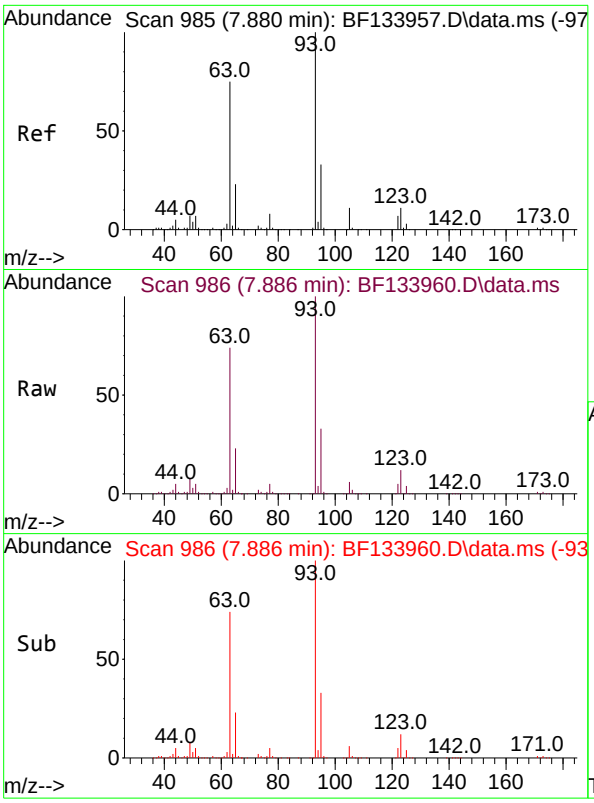


#27
2,4-Dimethylphenol
Concen: 72.428 ng
RT: 7.792 min Scan# 970
Delta R.T. 0.006 min
Lab File: BF133960.D
Acq: 26 Jun 2023 19:21

Tgt Ion:122 Resp: 453400

Ion	Ratio	Lower	Upper
122	100		
107	123.5	95.5	143.3
121	58.3	45.5	68.3





#28
bis(2-Chloroethoxy)methane
Concen: 71.819 ng
RT: 7.886 min Scan# 9
Delta R.T. 0.006 min
Lab File: BF133960.D
Acq: 26 Jun 2023 19:21

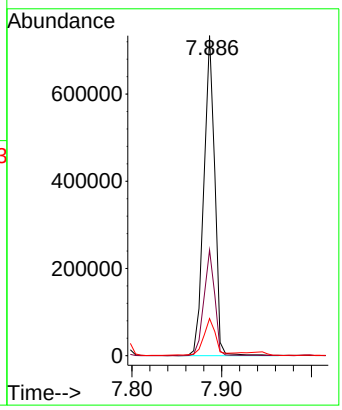
Tgt Ion: 93 Resp: 61656

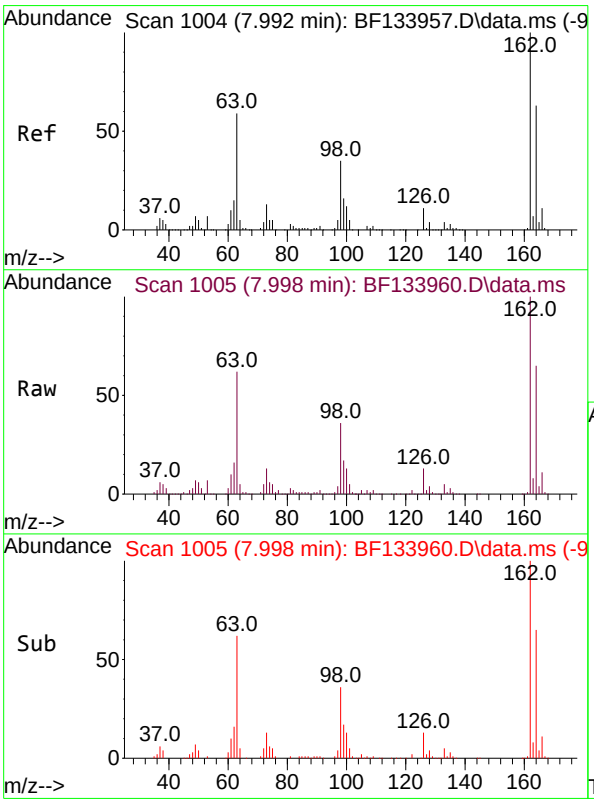
Ion	Ratio	Lower	Upper
93	100		
95	33.0	26.5	39.7
123	11.6	9.1	13.7

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

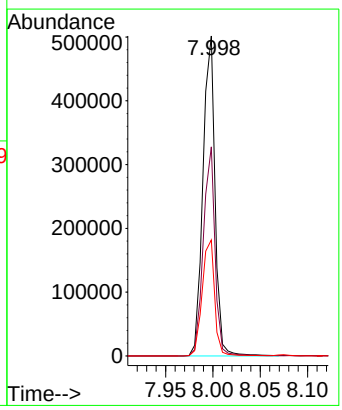


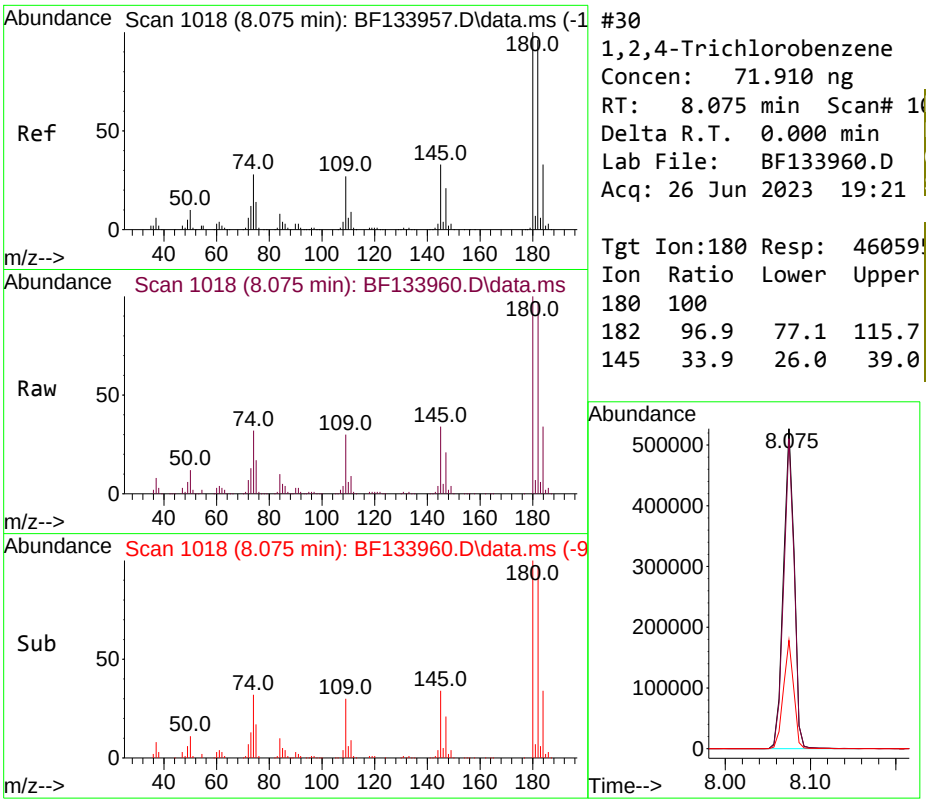


#29
2,4-Dichlorophenol
Concen: 71.771 ng
RT: 7.998 min Scan# 1005
Delta R.T. 0.006 min
Lab File: BF133960.D
Acq: 26 Jun 2023 19:21

Tgt Ion:162 Resp: 445522

Ion	Ratio	Lower	Upper
162	100		
164	65.4	43.2	83.2
98	36.2	14.9	54.9





#30
1,2,4-Trichlorobenzene
Concen: 71.910 ng
RT: 8.075 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF133960.D
Acq: 26 Jun 2023 19:21

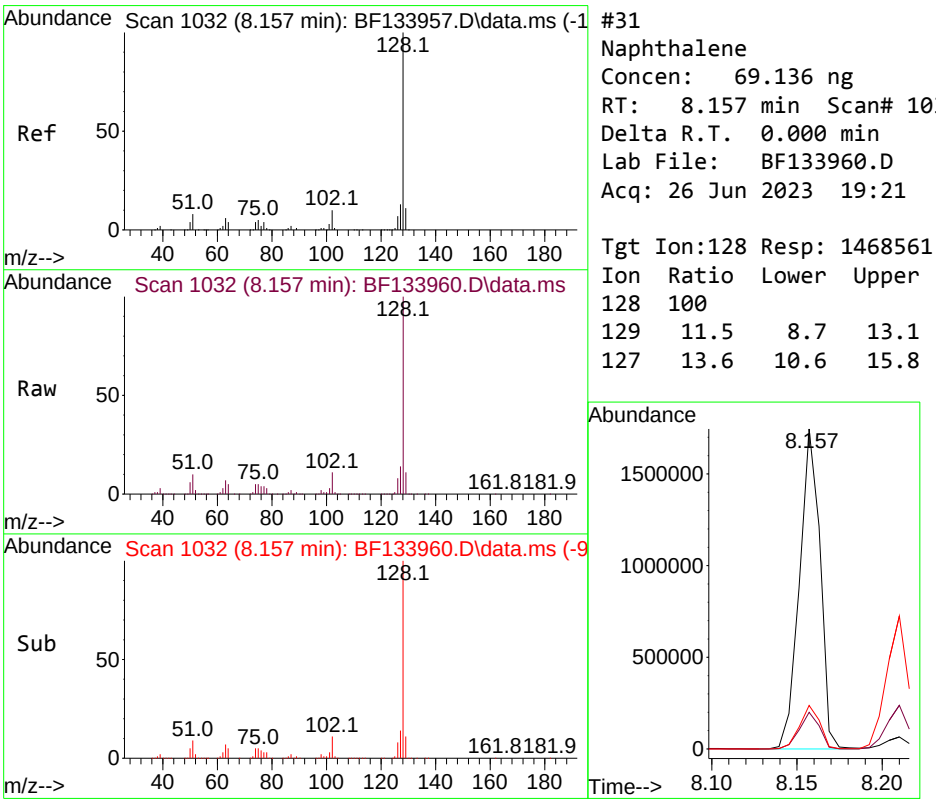
Tgt Ion:180 Resp: 46059

Ion	Ratio	Lower	Upper
180	100		
182	96.9	77.1	115.7
145	33.9	26.0	39.0

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

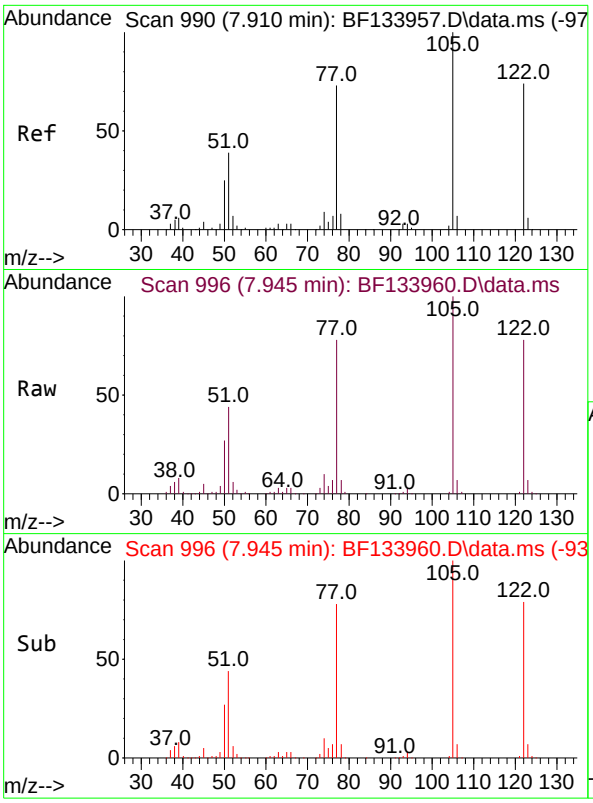
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023



#31
Naphthalene
Concen: 69.136 ng
RT: 8.157 min Scan# 1032
Delta R.T. 0.000 min
Lab File: BF133960.D
Acq: 26 Jun 2023 19:21

Tgt Ion:128 Resp: 1468561

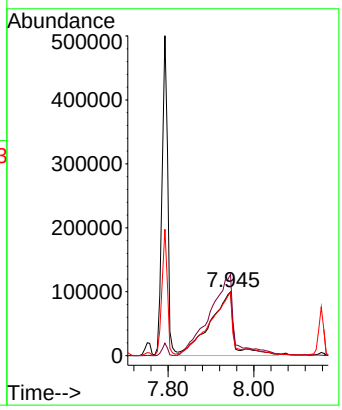
Ion	Ratio	Lower	Upper
128	100		
129	11.5	8.7	13.1
127	13.6	10.6	15.8



#32
Benzoic acid
Concen: 86.030 ng m
RT: 7.945 min Scan# 9
Delta R.T. 0.035 min
Lab File: BF133960.D
Acq: 26 Jun 2023 19:21

Tgt Ion:122 Resp: 39574

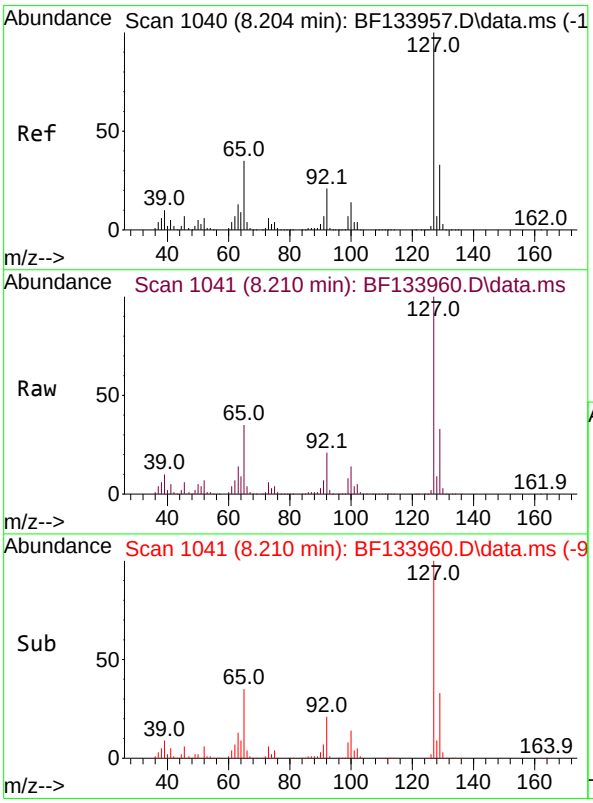
Ion	Ratio	Lower	Upper
122	100		
105	127.4	109.7	149.7
77	99.3	76.0	116.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

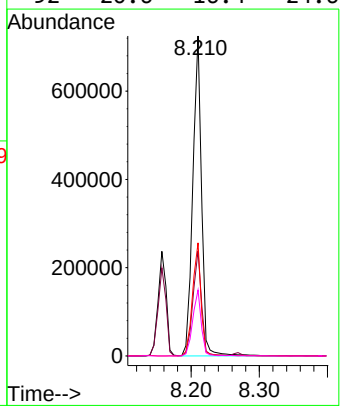
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

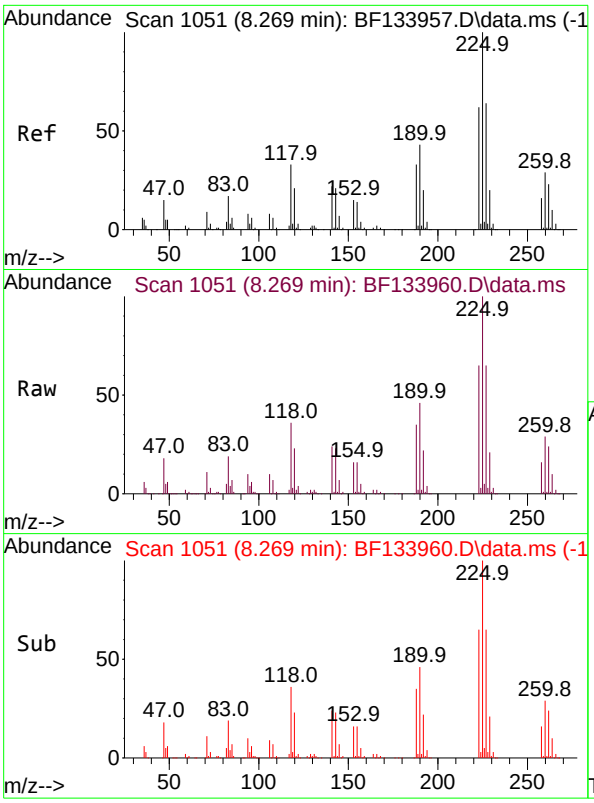


#33
4-Chloroaniline
Concen: 71.299 ng
RT: 8.210 min Scan# 1041
Delta R.T. 0.006 min
Lab File: BF133960.D
Acq: 26 Jun 2023 19:21

Tgt Ion:127 Resp: 647849

Ion	Ratio	Lower	Upper
127	100		
129	32.8	26.4	39.6
65	35.3	27.8	41.8
92	20.6	16.4	24.6

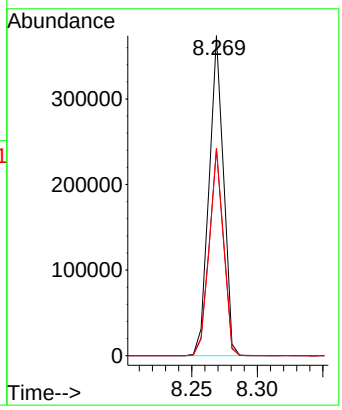




#34
Hexachlorobutadiene
Concen: 71.145 ng
RT: 8.269 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF133960.D
Acq: 26 Jun 2023 19:21

Tgt Ion:225 Resp: 28745

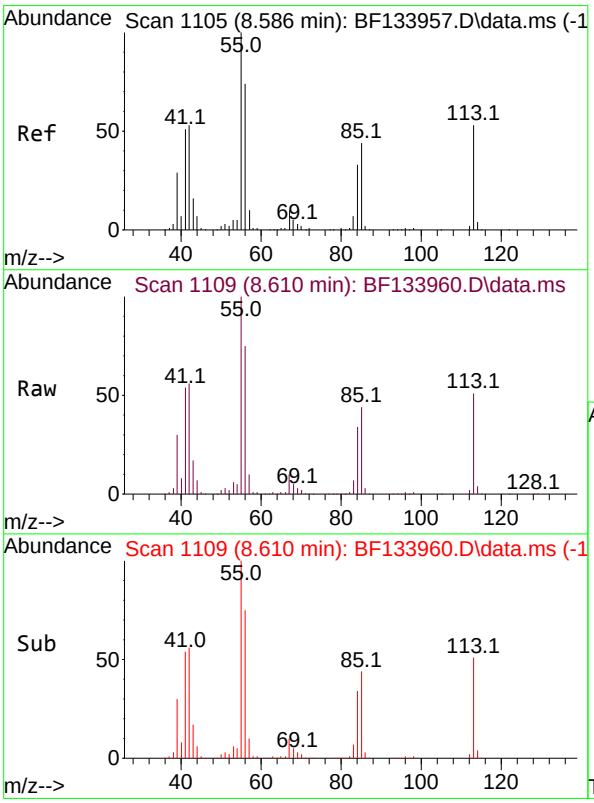
Ion	Ratio	Lower	Upper
225	100		
223	64.6	49.8	74.8
227	64.8	51.0	76.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

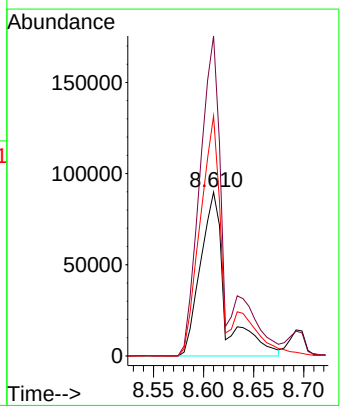
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

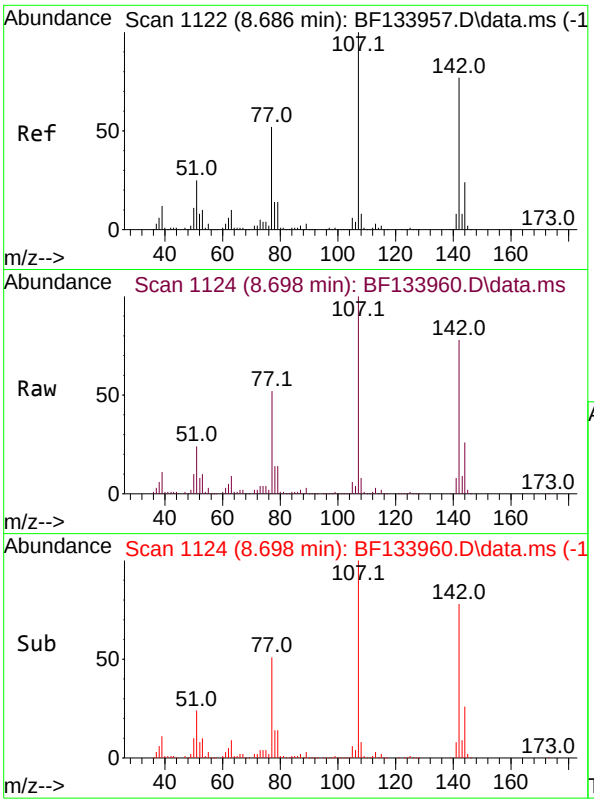


#35
Caprolactam
Concen: 76.016 ng m
RT: 8.610 min Scan# 1109
Delta R.T. 0.024 min
Lab File: BF133960.D
Acq: 26 Jun 2023 19:21

Tgt Ion:113 Resp: 155369

Ion	Ratio	Lower	Upper
113	100		
55	195.3	170.2	210.2
56	146.5	121.4	161.4

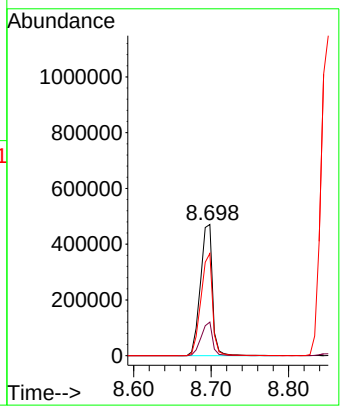




#36
4-Chloro-3-methylphenol
Concen: 72.994 ng
RT: 8.698 min Scan# 11
Delta R.T. 0.012 min
Lab File: BF133960.D
Acq: 26 Jun 2023 19:21

Tgt Ion:107 Resp: 50902

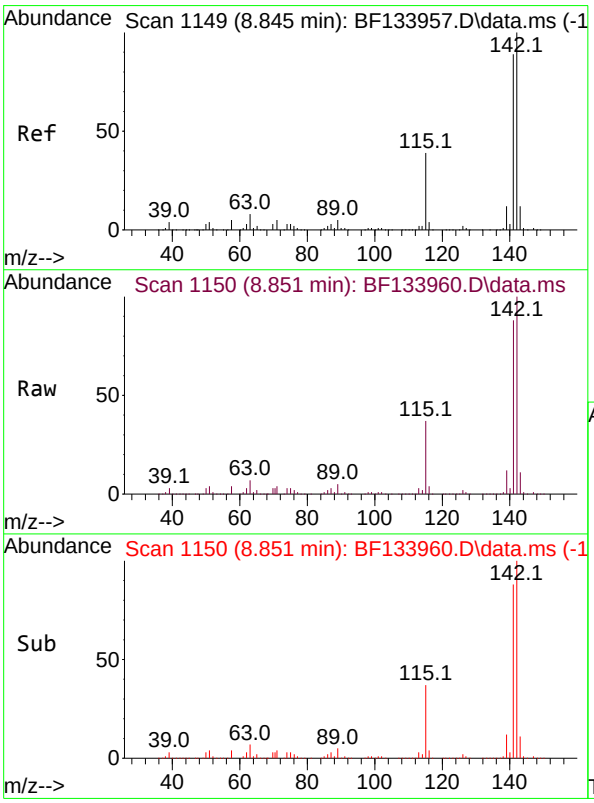
Ion	Ratio	Lower	Upper
107	100		
144	25.6	19.6	29.4
142	78.0	61.4	92.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

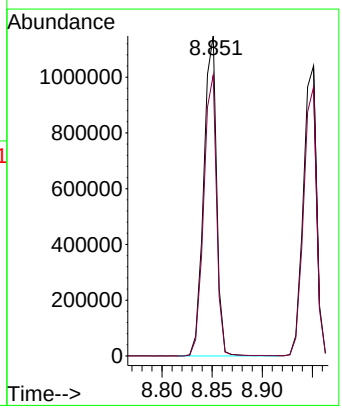
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

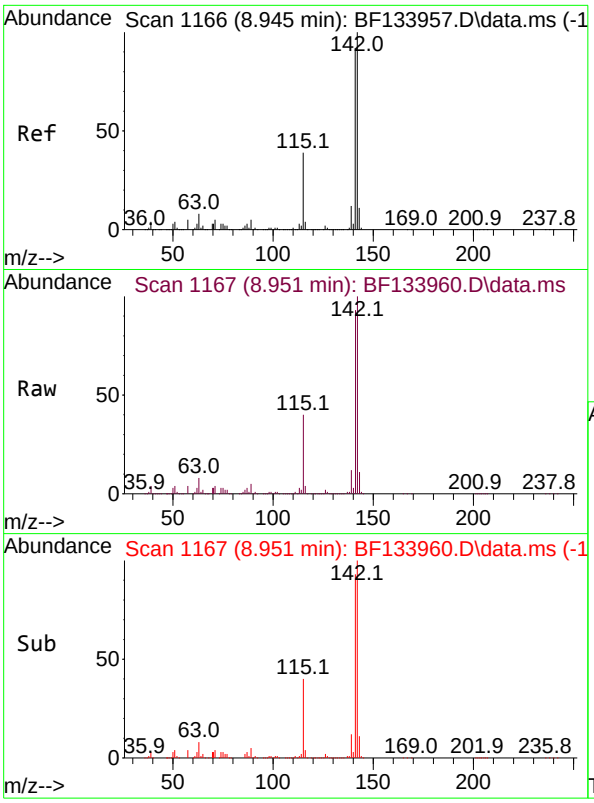


#37
2-Methylnaphthalene
Concen: 68.556 ng
RT: 8.851 min Scan# 1150
Delta R.T. 0.006 min
Lab File: BF133960.D
Acq: 26 Jun 2023 19:21

Tgt Ion:142 Resp: 1029791

Ion	Ratio	Lower	Upper
142	100		
141	87.8	71.0	106.4

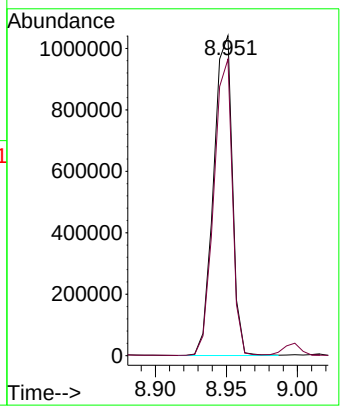




#38
1-Methylnaphthalene
Concen: 68.481 ng
RT: 8.951 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF133960.D
Acq: 26 Jun 2023 19:21

Tgt Ion:142 Resp: 95630

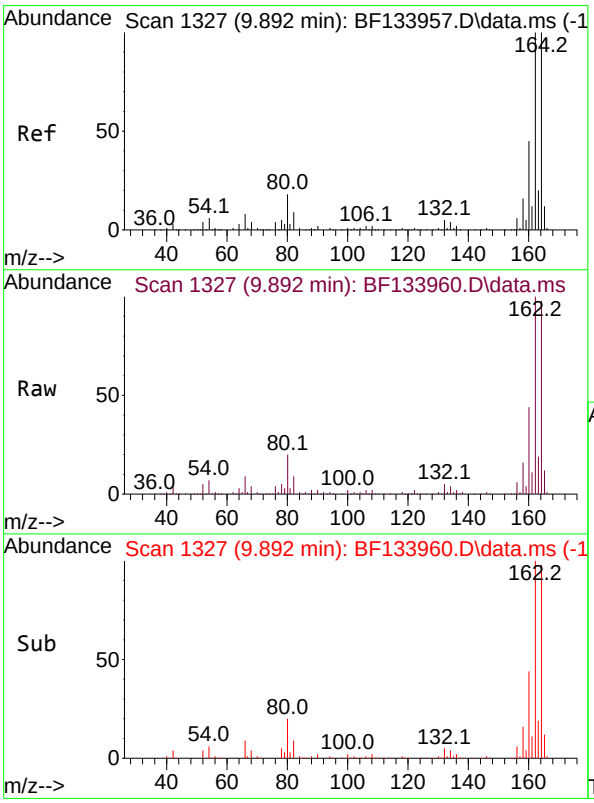
Ion	Ratio	Lower	Upper
142	100		
141	92.6	73.5	110.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

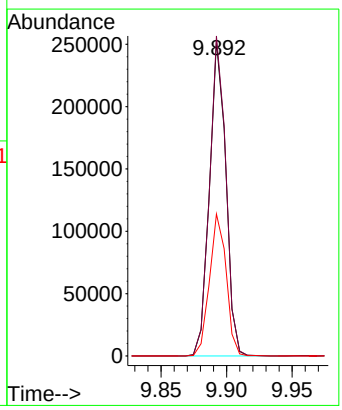
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

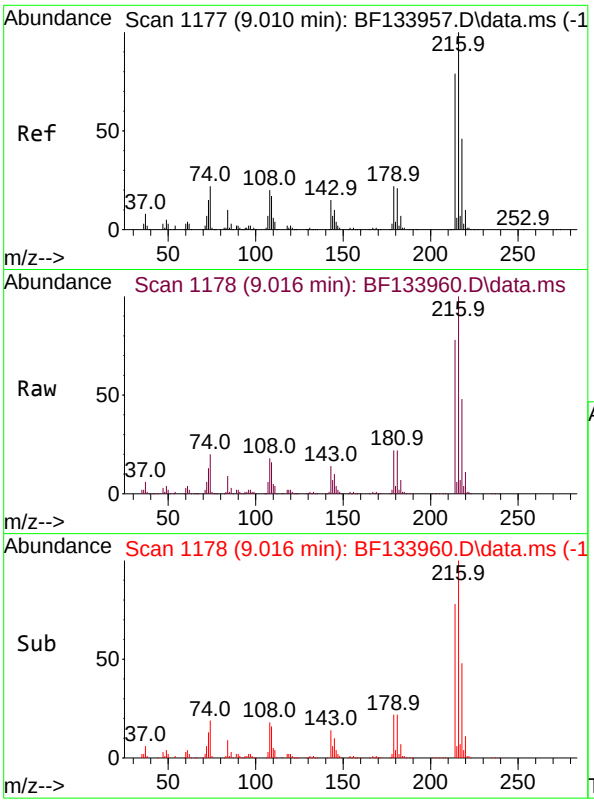


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.892 min Scan# 1327
Delta R.T. 0.000 min
Lab File: BF133960.D
Acq: 26 Jun 2023 19:21

Tgt Ion:164 Resp: 219649

Ion	Ratio	Lower	Upper
164	100		
162	101.8	80.0	120.0
160	45.1	35.9	53.9

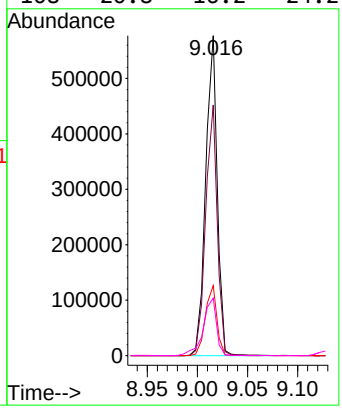




#40
1,2,4,5-Tetrachlorobenzene
Concen: 71.232 ng
RT: 9.016 min Scan# 11
Delta R.T. 0.006 min
Lab File: BF133960.D
Acq: 26 Jun 2023 19:21

Tgt Ion:216 Resp: 46354

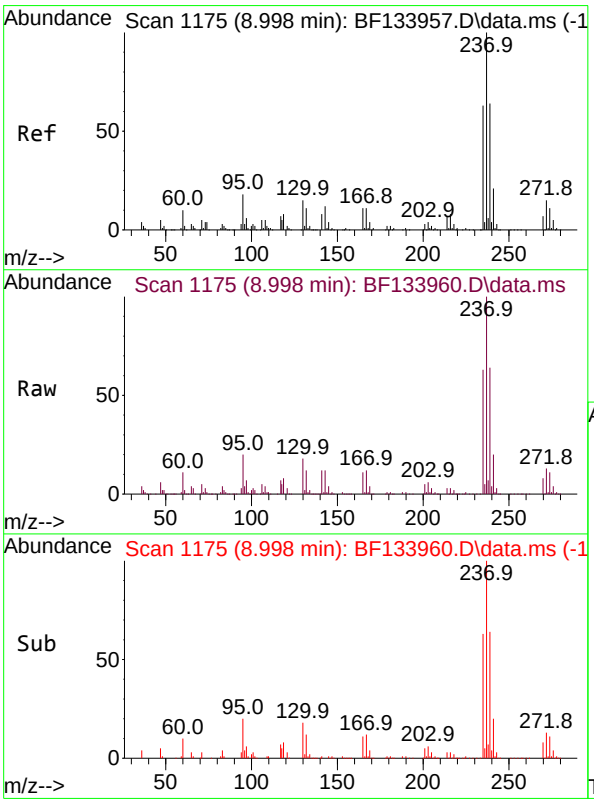
Ion	Ratio	Lower	Upper
216	100		
214	79.0	64.1	96.1
179	21.9	17.3	25.9
108	20.8	16.2	24.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

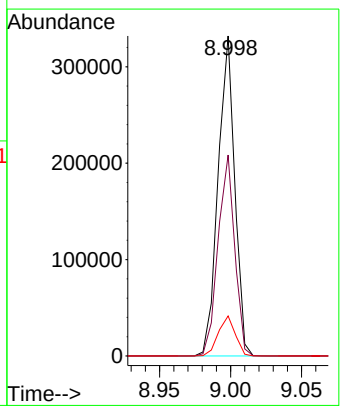
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

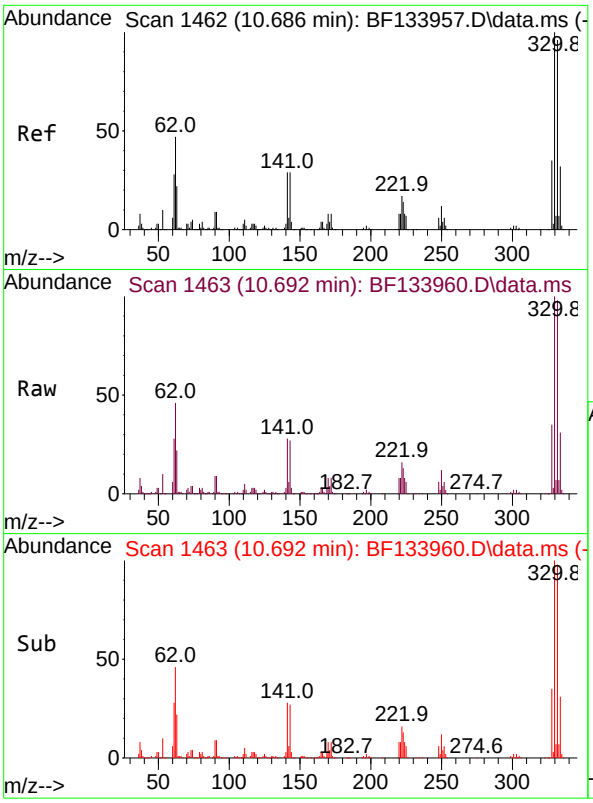


#41
Hexachlorocyclopentadiene
Concen: 87.459 ng
RT: 8.998 min Scan# 1175
Delta R.T. 0.000 min
Lab File: BF133960.D
Acq: 26 Jun 2023 19:21

Tgt Ion:237 Resp: 270008

Ion	Ratio	Lower	Upper
237	100		
235	62.8	42.8	82.8
272	12.5	0.0	34.6

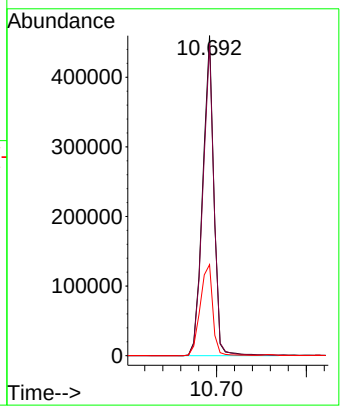




#42
2,4,6-Tribromophenol
Concen: 143.831 ng
RT: 10.692 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF133960.D
Acq: 26 Jun 2023 19:21

Tgt Ion:330 Resp: 39610

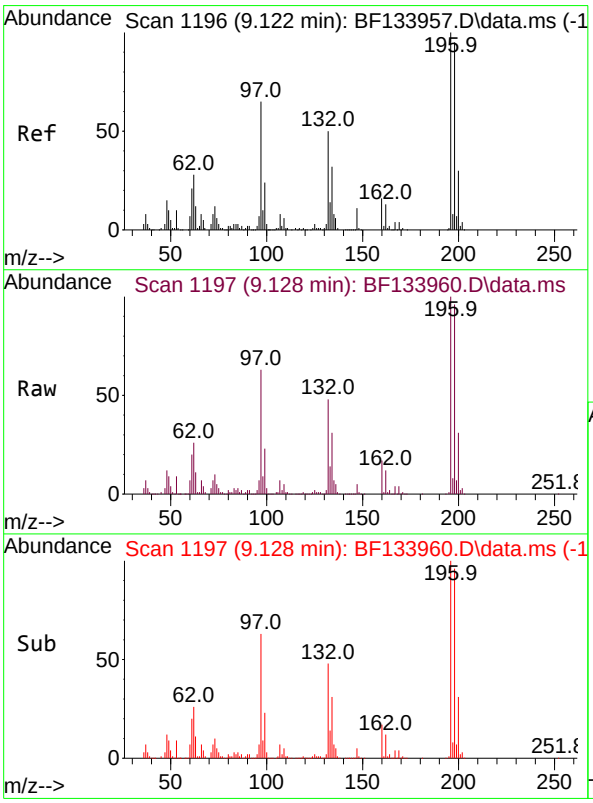
Ion	Ratio	Lower	Upper
330	100		
332	98.0	77.0	115.6
141	32.1	26.3	39.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

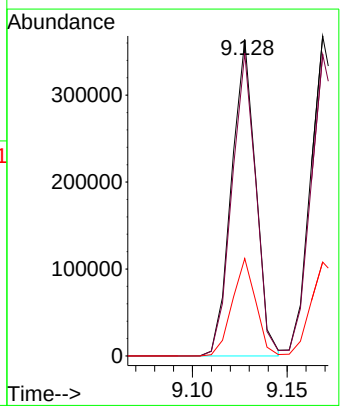
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

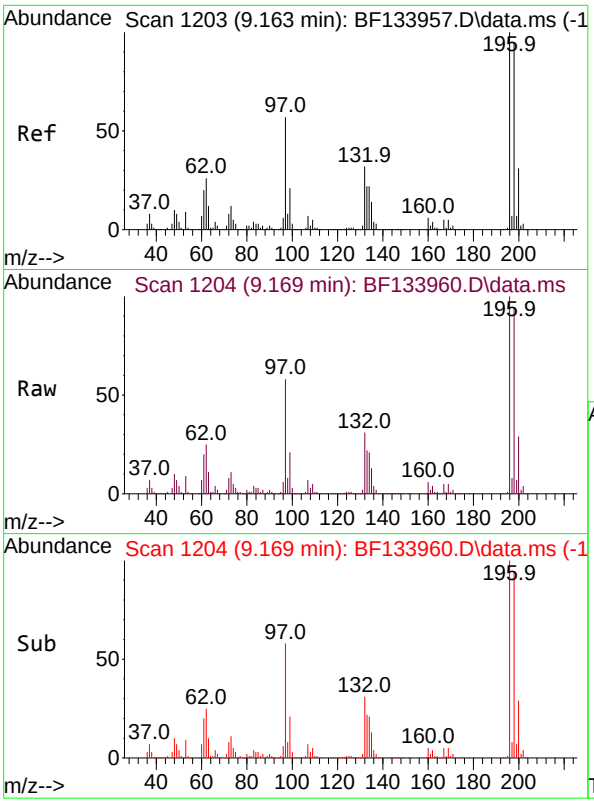


#43
2,4,6-Trichlorophenol
Concen: 72.779 ng
RT: 9.128 min Scan# 1197
Delta R.T. 0.006 min
Lab File: BF133960.D
Acq: 26 Jun 2023 19:21

Tgt Ion:196 Resp: 322403

Ion	Ratio	Lower	Upper
196	100		
198	95.7	75.6	113.4
200	30.8	24.4	36.6

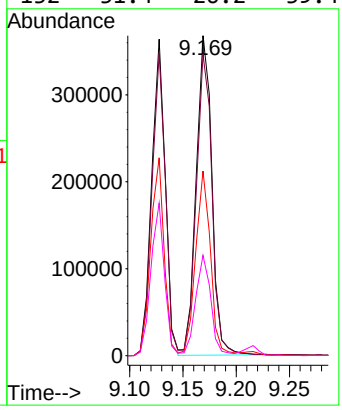




#44
2,4,5-Trichlorophenol
Concen: 72.659 ng
RT: 9.169 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF133960.D
Acq: 26 Jun 2023 19:21

Tgt Ion:196 Resp: 37860

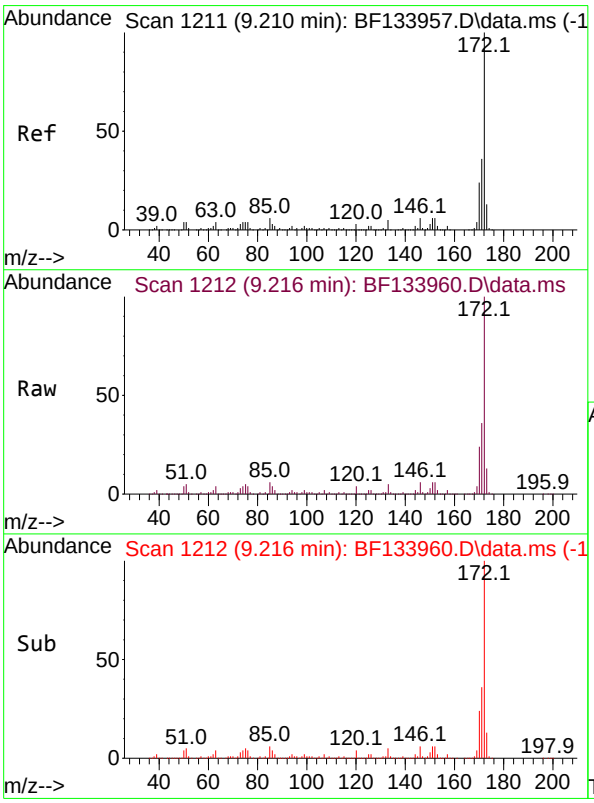
Ion	Ratio	Lower	Upper
196	100		
198	94.2	75.7	113.5
97	57.7	45.8	68.6
132	31.4	26.2	39.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

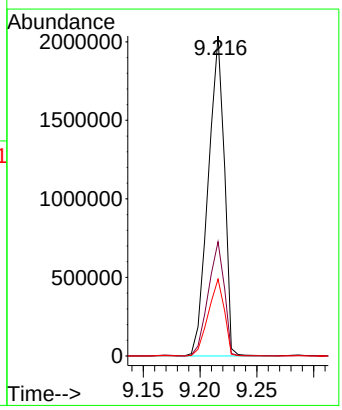
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

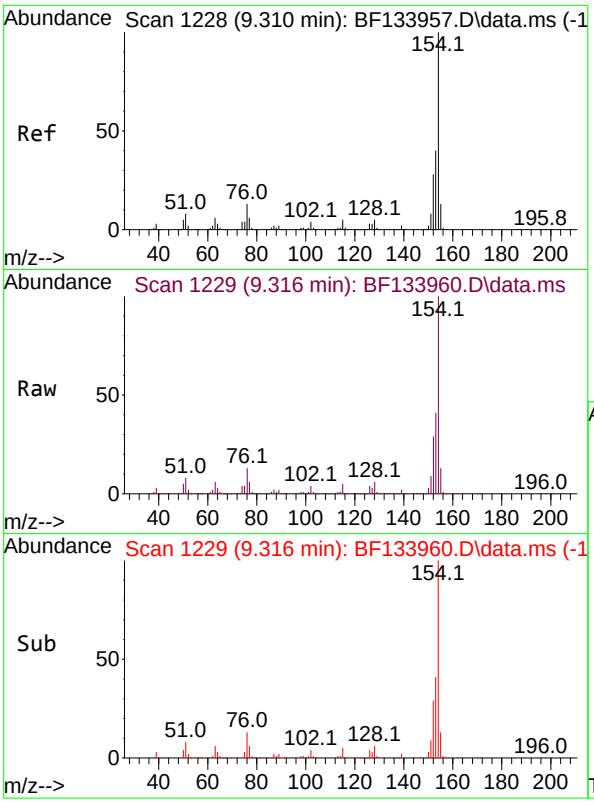


#45
2-Fluorobiphenyl
Concen: 133.080 ng
RT: 9.216 min Scan# 1212
Delta R.T. 0.006 min
Lab File: BF133960.D
Acq: 26 Jun 2023 19:21

Tgt Ion:172 Resp: 2010526

Ion	Ratio	Lower	Upper
172	100		
171	35.7	28.6	43.0
170	24.0	19.4	29.0

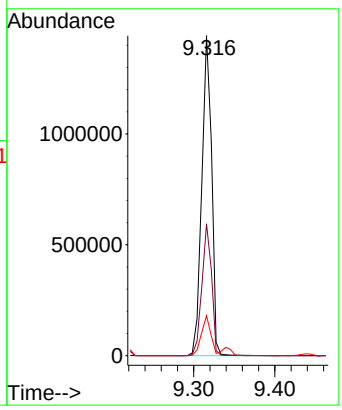




#46
1,1'-Biphenyl
Concen: 68.769 ng
RT: 9.316 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF133960.D
Acq: 26 Jun 2023 19:21

Tgt Ion:154 Resp: 121166

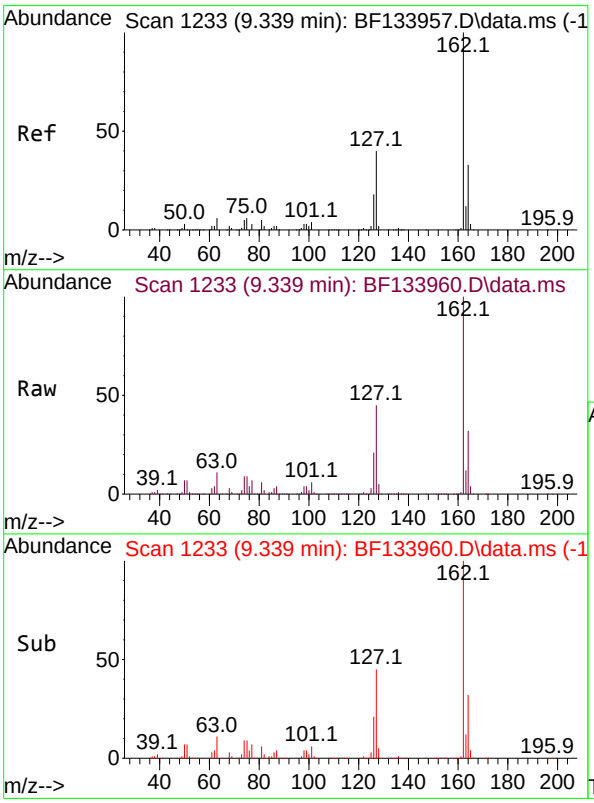
Ion	Ratio	Lower	Upper
154	100		
153	41.2	19.8	59.8
76	12.5	0.0	32.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

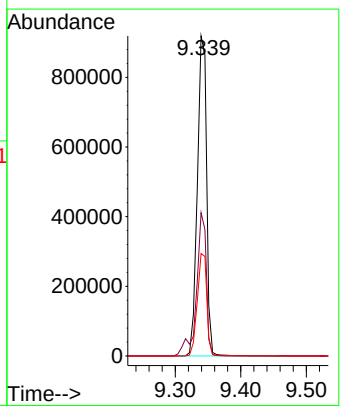
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

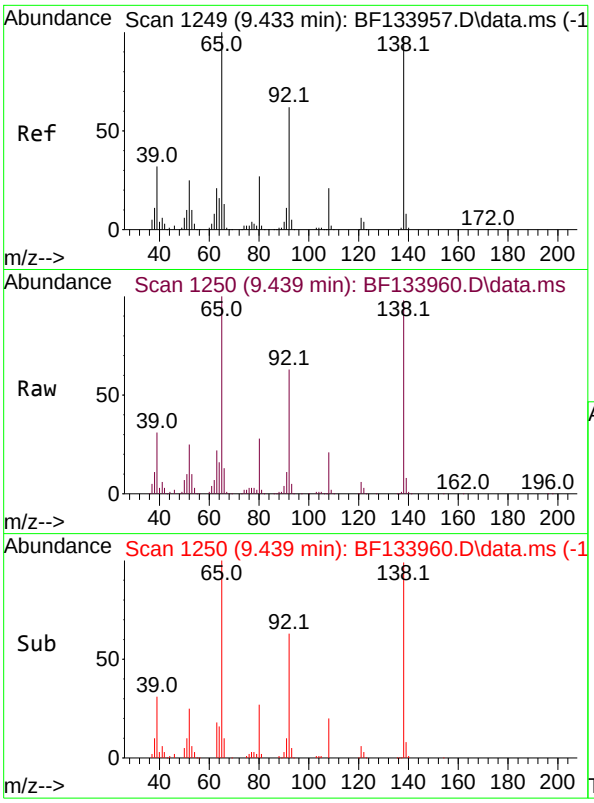


#47
2-Chloronaphthalene
Concen: 70.166 ng
RT: 9.339 min Scan# 1233
Delta R.T. 0.000 min
Lab File: BF133960.D
Acq: 26 Jun 2023 19:21

Tgt Ion:162 Resp: 904542

Ion	Ratio	Lower	Upper
162	100		
127	44.7	32.9	49.3
164	32.0	26.1	39.1





#48
2-Nitroaniline
Concen: 75.890 ng
RT: 9.439 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF133960.D
Acq: 26 Jun 2023 19:21

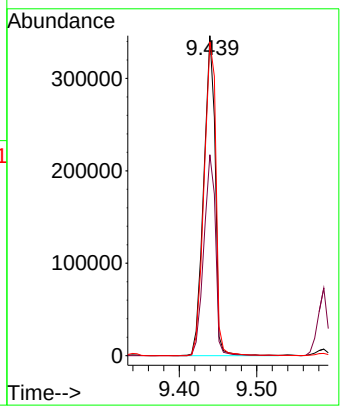
Tgt Ion: 65 Resp: 35655

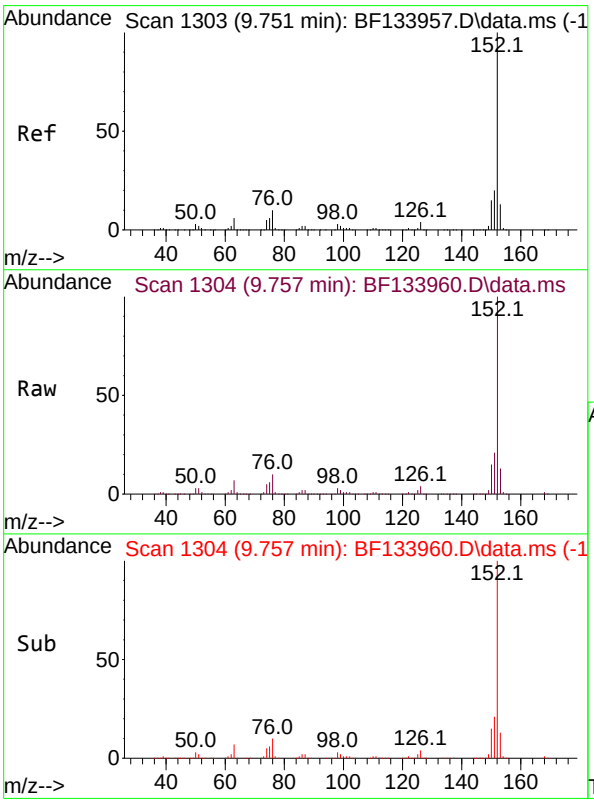
Ion	Ratio	Lower	Upper
65	100		
92	62.8	49.5	74.3
138	98.1	78.0	117.0

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

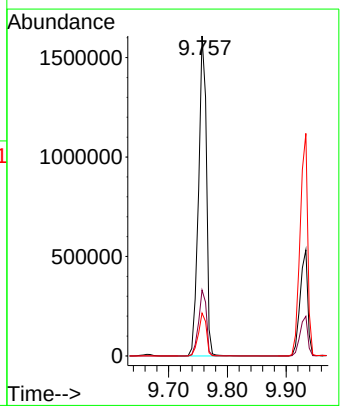


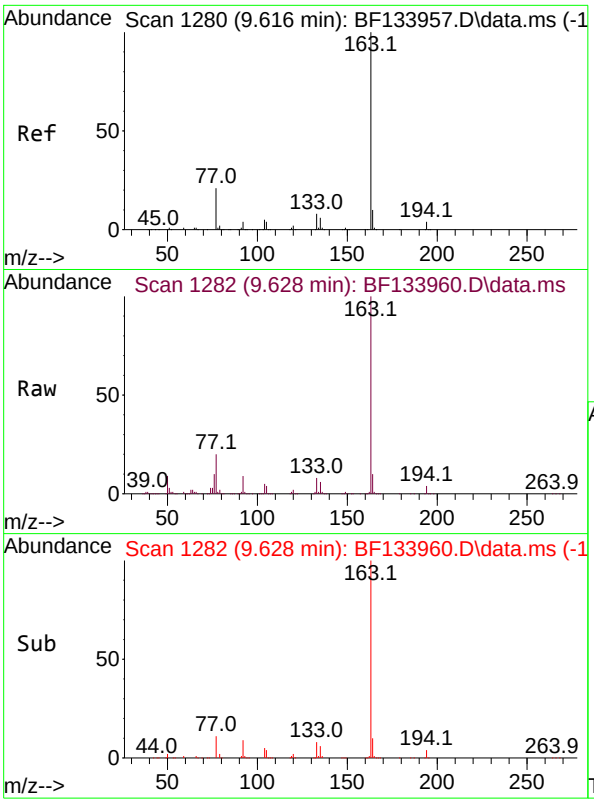


#49
Acenaphthylene
Concen: 67.930 ng
RT: 9.757 min Scan# 1304
Delta R.T. 0.006 min
Lab File: BF133960.D
Acq: 26 Jun 2023 19:21

Tgt Ion:152 Resp: 1495956

Ion	Ratio	Lower	Upper
152	100		
151	20.6	16.2	24.2
153	13.4	10.8	16.2

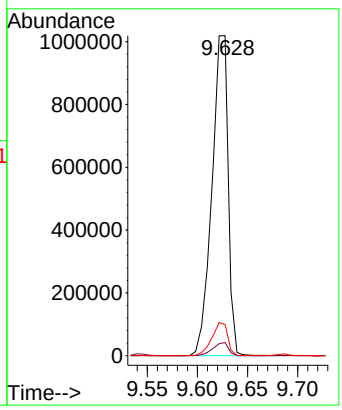




#50
Dimethylphthalate
Concen: 72.081 ng
RT: 9.628 min Scan# 1
Delta R.T. 0.012 min
Lab File: BF133960.D
Acq: 26 Jun 2023 19:21

Tgt Ion:163 Resp: 114928

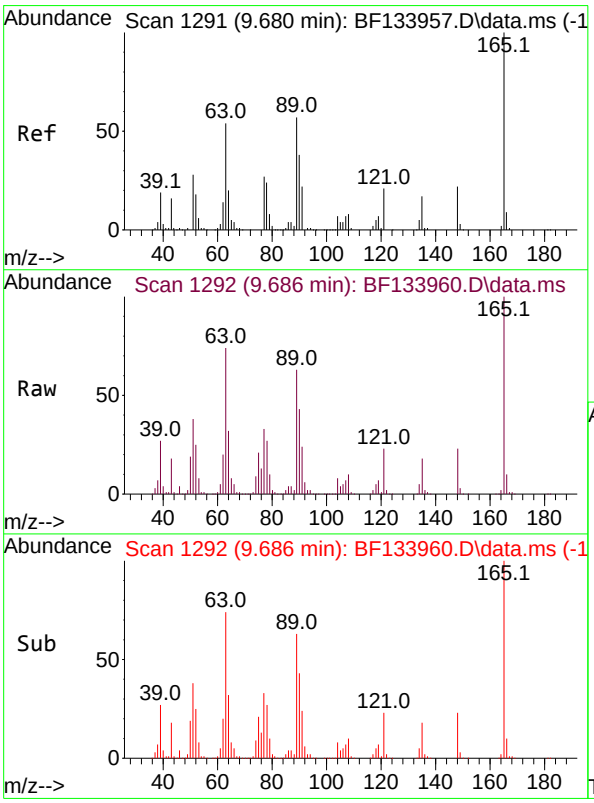
Ion	Ratio	Lower	Upper
163	100		
194	4.1	3.0	4.6
164	9.8	8.2	12.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

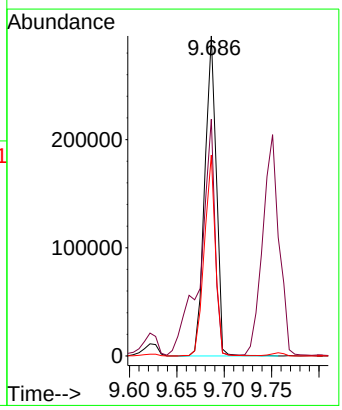
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

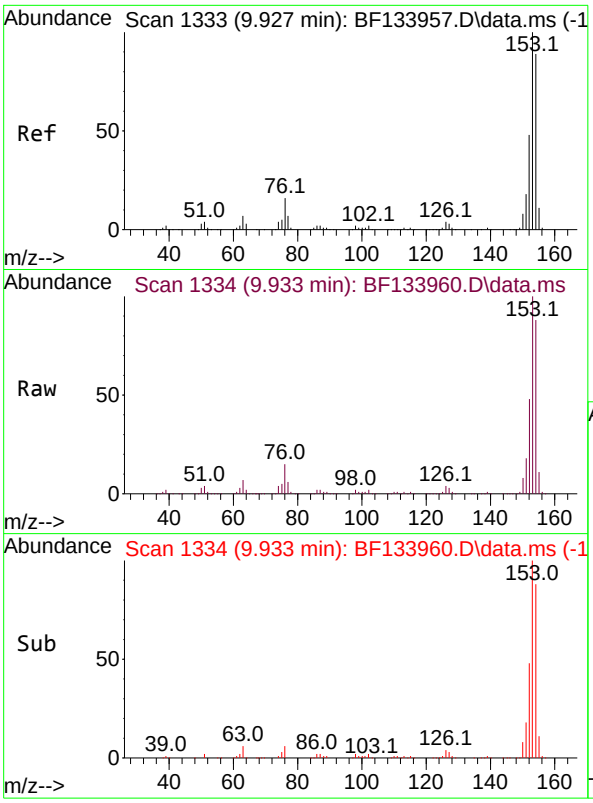


#51
2,6-Dinitrotoluene
Concen: 72.828 ng
RT: 9.686 min Scan# 1292
Delta R.T. 0.006 min
Lab File: BF133960.D
Acq: 26 Jun 2023 19:21

Tgt Ion:165 Resp: 250101

Ion	Ratio	Lower	Upper
165	100		
63	74.0	48.5	72.7#
89	62.8	45.5	68.3

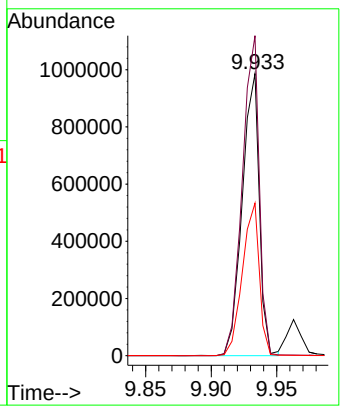




#52
Acenaphthene
Concen: 69.981 ng
RT: 9.933 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF133960.D
Acq: 26 Jun 2023 19:21

Tgt Ion:154 Resp: 89424

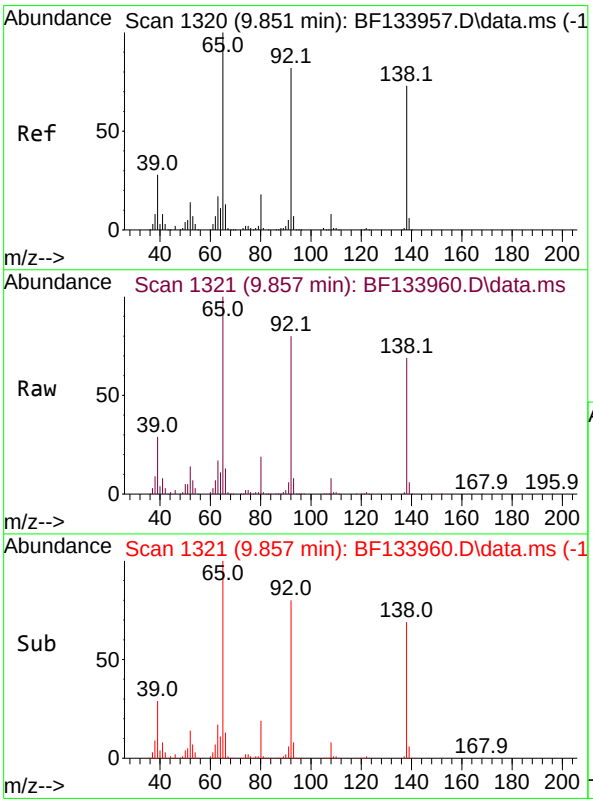
Ion	Ratio	Lower	Upper
154	100		
153	113.4	89.4	134.2
152	54.0	42.8	64.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

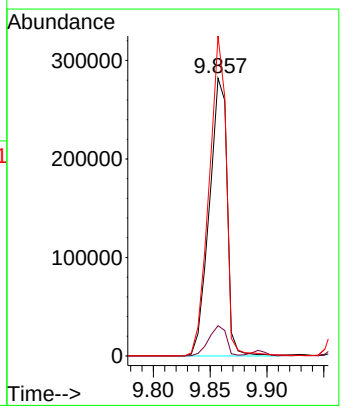
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

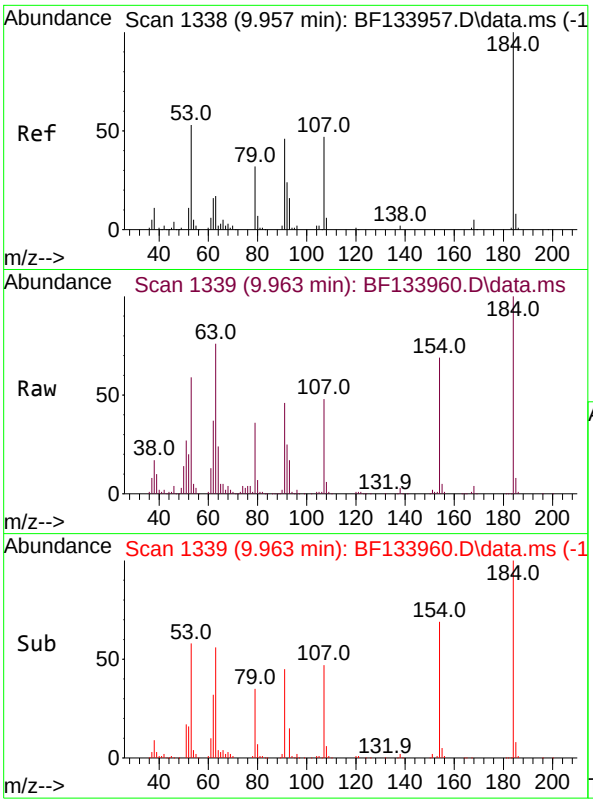


#53
3-Nitroaniline
Concen: 74.717 ng
RT: 9.857 min Scan# 1321
Delta R.T. 0.006 min
Lab File: BF133960.D
Acq: 26 Jun 2023 19:21

Tgt Ion:138 Resp: 307824

Ion	Ratio	Lower	Upper
138	100		
108	10.9	8.4	12.6
92	115.2	90.1	135.1

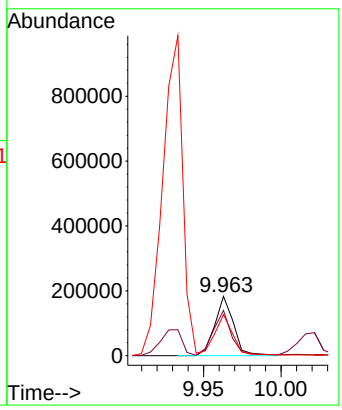




#54
2,4-Dinitrophenol
Concen: 77.995 ng
RT: 9.963 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF133960.D
Acq: 26 Jun 2023 19:21

Tgt Ion:184 Resp: 15448

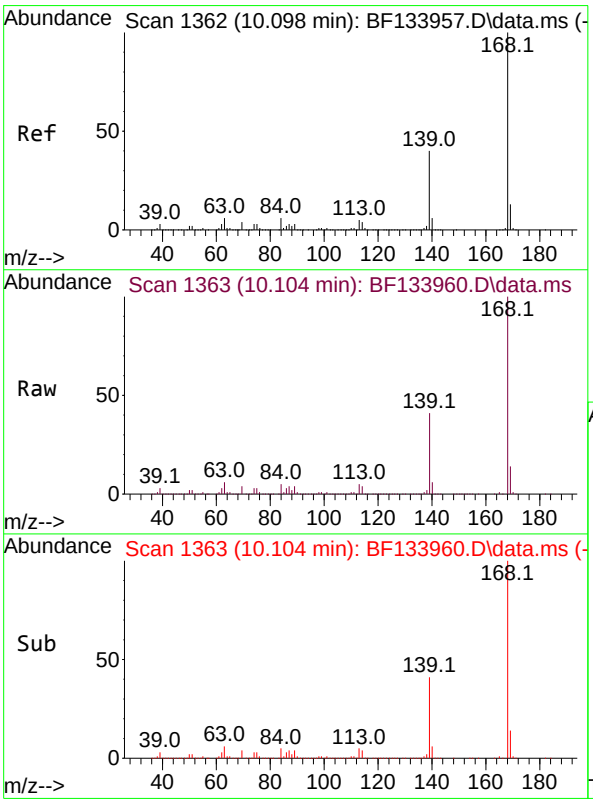
Ion	Ratio	Lower	Upper
184	100		
63	76.3	56.9	85.3
154	69.3	55.4	83.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

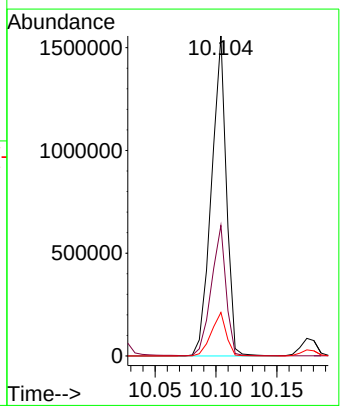
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

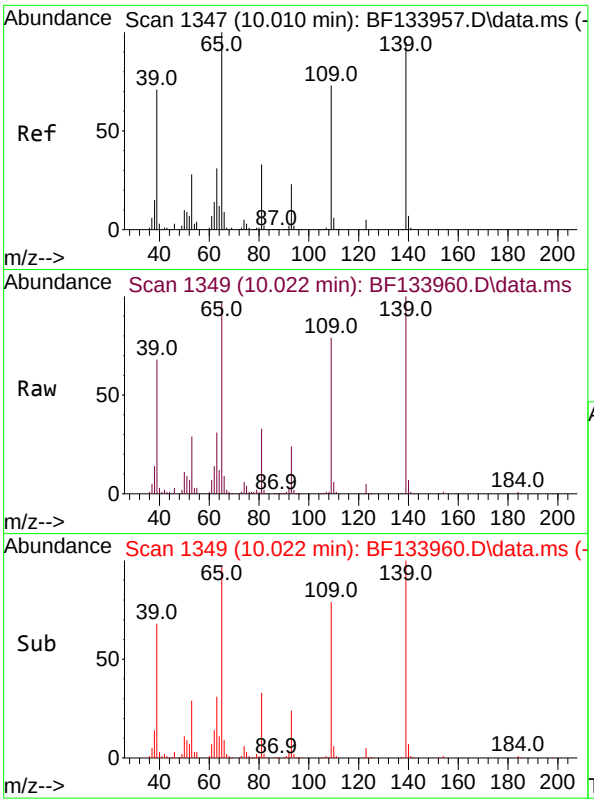


#55
Dibenzofuran
Concen: 66.629 ng
RT: 10.104 min Scan# 1363
Delta R.T. 0.006 min
Lab File: BF133960.D
Acq: 26 Jun 2023 19:21

Tgt Ion:168 Resp: 1330615

Ion	Ratio	Lower	Upper
168	100		
139	40.8	32.0	48.0
169	13.6	10.6	16.0

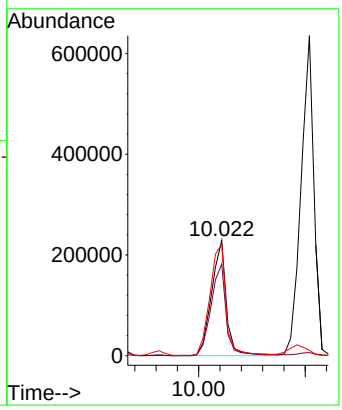




#56
4-Nitrophenol
Concen: 77.090 ng
RT: 10.022 min Scan# 1
Delta R.T. 0.012 min
Lab File: BF133960.D
Acq: 26 Jun 2023 19:21

Tgt Ion:139 Resp: 22215

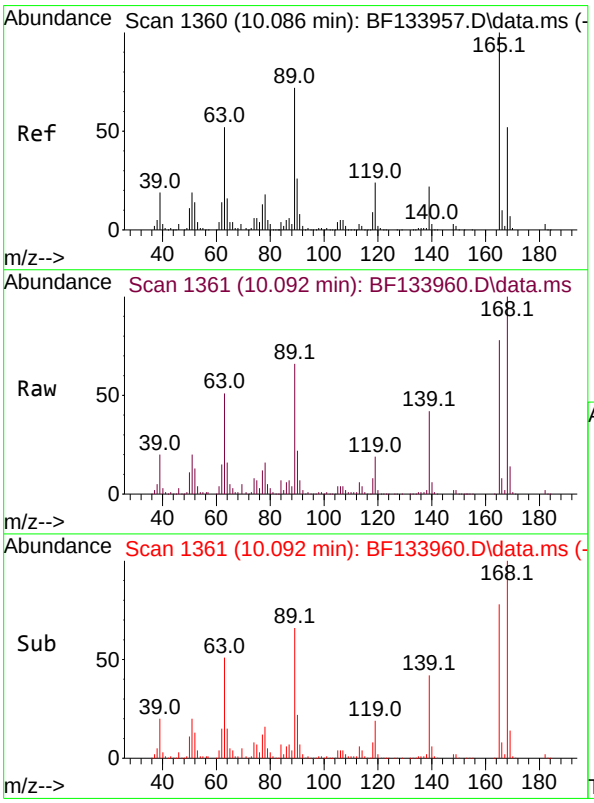
Ion	Ratio	Lower	Upper
139	100		
109	79.5	56.8	96.8
65	96.9	86.1	126.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

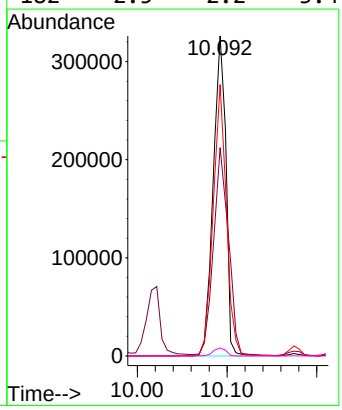
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

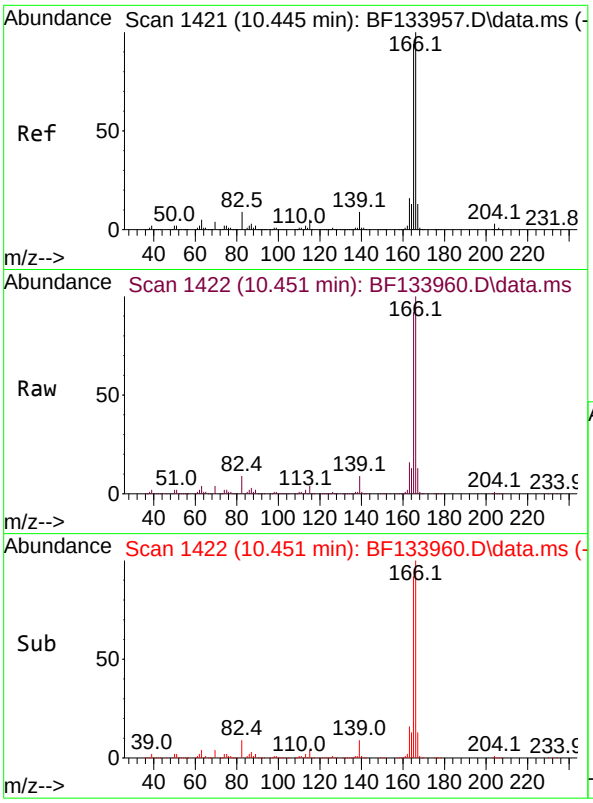


#57
2,4-Dinitrotoluene
Concen: 70.521 ng
RT: 10.092 min Scan# 1361
Delta R.T. 0.006 min
Lab File: BF133960.D
Acq: 26 Jun 2023 19:21

Tgt Ion:165 Resp: 319832

Ion	Ratio	Lower	Upper
165	100		
63	65.1	42.2	63.2#
89	84.8	57.4	86.2
182	2.5	2.2	3.4

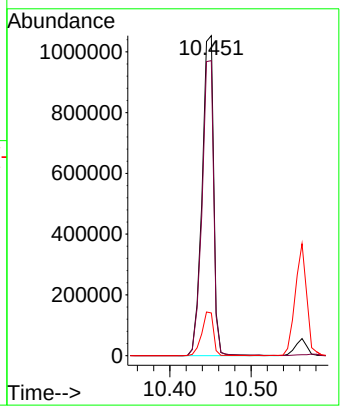




#58
Fluorene
Concen: 67.027 ng
RT: 10.451 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF133960.D
Acq: 26 Jun 2023 19:21

Tgt Ion:166 Resp: 104138

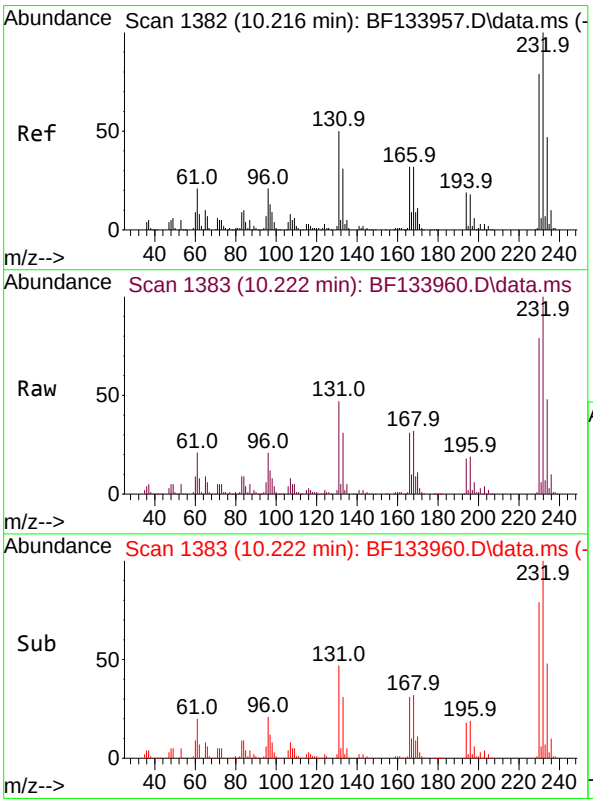
Ion	Ratio	Lower	Upper
166	100		
165	92.2	75.0	112.4
167	13.4	10.6	15.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

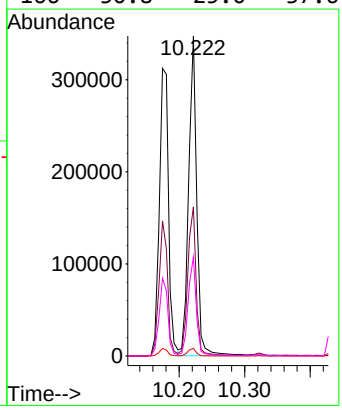
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

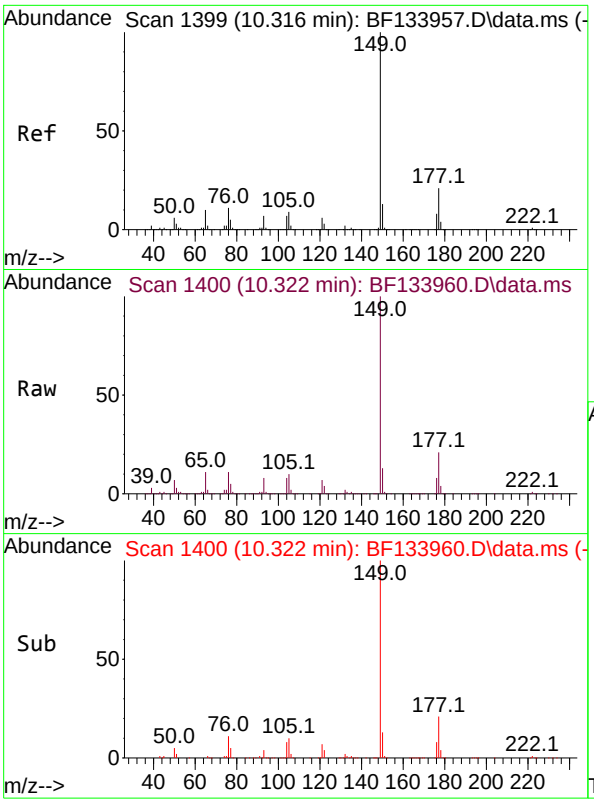


#59
2,3,4,6-Tetrachlorophenol
Concen: 72.479 ng
RT: 10.222 min Scan# 1383
Delta R.T. 0.006 min
Lab File: BF133960.D
Acq: 26 Jun 2023 19:21

Tgt Ion:232 Resp: 297908

Ion	Ratio	Lower	Upper
232	100		
131	47.5	39.3	58.9
130	2.4	1.8	2.6
166	30.8	25.0	37.6

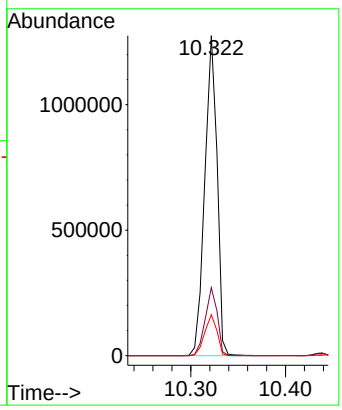




#60
Diethylphthalate
Concen: 68.920 ng
RT: 10.322 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF133960.D
Acq: 26 Jun 2023 19:21

Tgt Ion:149 Resp: 114486

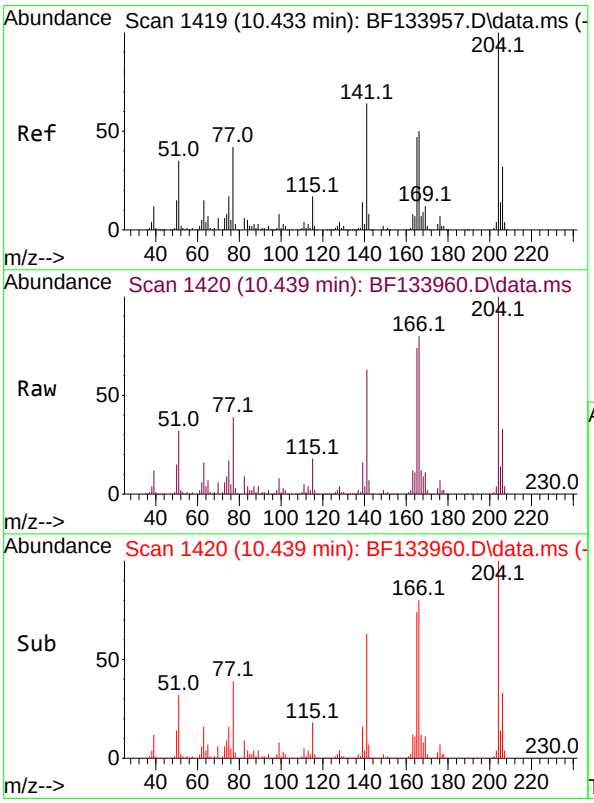
Ion	Ratio	Lower	Upper
149	100		
177	21.3	17.0	25.6
150	12.8	10.2	15.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

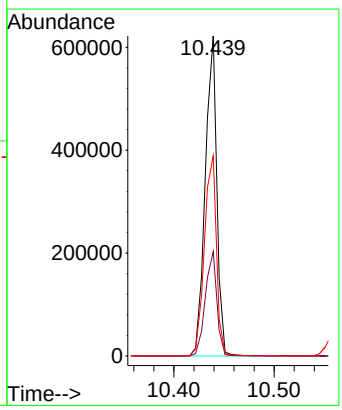
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

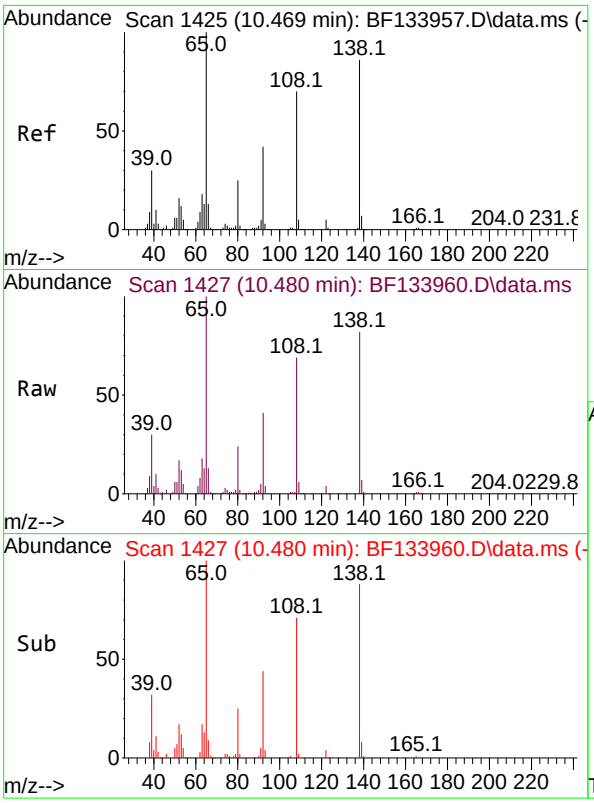


#61
4-Chlorophenyl-phenylether
Concen: 67.068 ng
RT: 10.439 min Scan# 1420
Delta R.T. 0.006 min
Lab File: BF133960.D
Acq: 26 Jun 2023 19:21

Tgt Ion:204 Resp: 502170

Ion	Ratio	Lower	Upper
204	100		
206	32.6	25.8	38.6
141	62.6	51.5	77.3

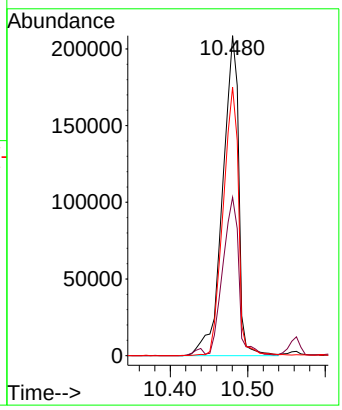




#62
4-Nitroaniline
Concen: 72.645 ng
RT: 10.480 min Scan# 14
Delta R.T. 0.012 min
Lab File: BF133960.D
Acq: 26 Jun 2023 19:21

Tgt Ion:138 Resp: 30161

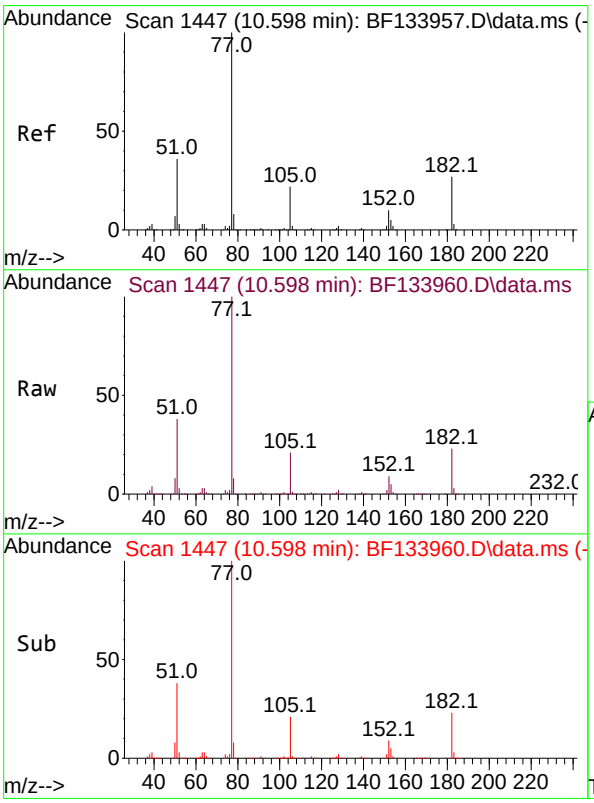
Ion	Ratio	Lower	Upper
138	100		
92	49.5	29.7	69.7
108	83.9	62.1	102.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

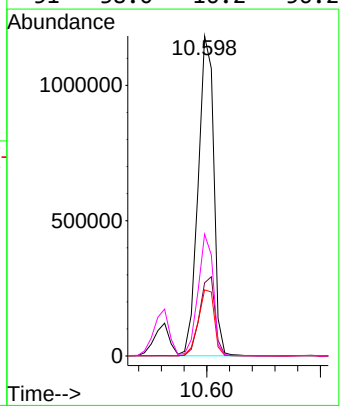
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

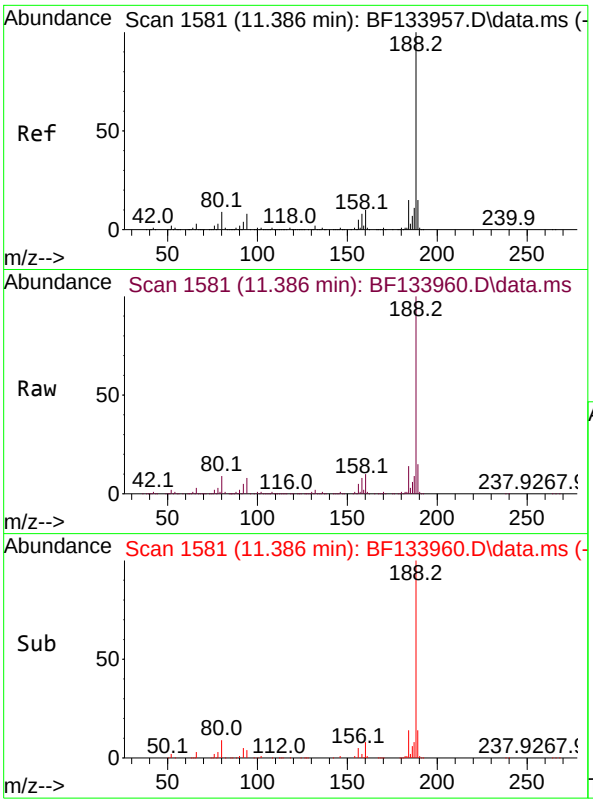


#63
Azobenzene
Concen: 71.527 ng
RT: 10.598 min Scan# 1447
Delta R.T. 0.000 min
Lab File: BF133960.D
Acq: 26 Jun 2023 19:21

Tgt Ion: 77 Resp: 1123914

Ion	Ratio	Lower	Upper
77	100		
182	22.9	6.8	46.8
105	20.6	2.3	42.3
51	38.0	16.2	56.2





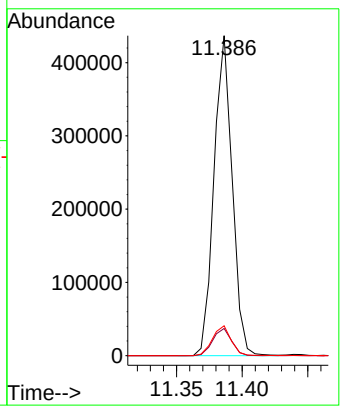
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.386 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF133960.D
Acq: 26 Jun 2023 19:21

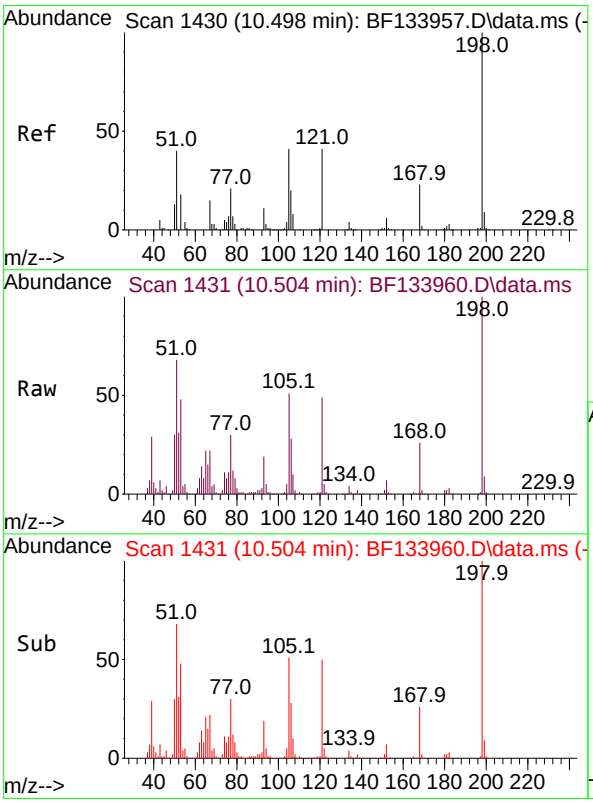
Tgt Ion:188 Resp: 42129

Ion	Ratio	Lower	Upper
188	100		
94	8.5	6.4	9.6
80	9.4	7.3	10.9

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

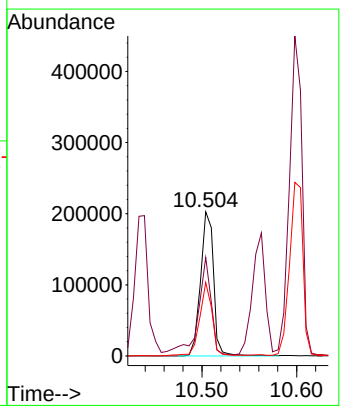


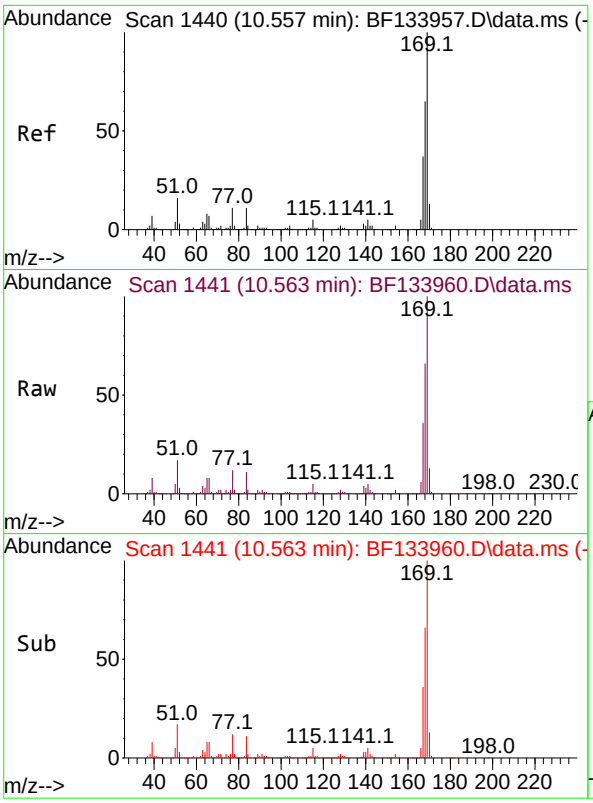


#65
4,6-Dinitro-2-methylphenol
Concen: 84.284 ng
RT: 10.504 min Scan# 1431
Delta R.T. 0.006 min
Lab File: BF133960.D
Acq: 26 Jun 2023 19:21

Tgt Ion:198 Resp: 193590

Ion	Ratio	Lower	Upper
198	100		
51	68.3	29.3	69.3
105	50.9	22.4	62.4

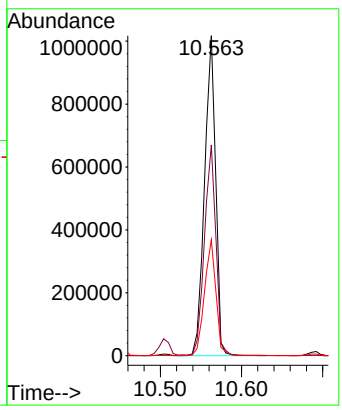




#66
n-Nitrosodiphenylamine
Concen: 71.575 ng
RT: 10.563 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF133960.D
Acq: 26 Jun 2023 19:21

Tgt Ion:169 Resp: 96343

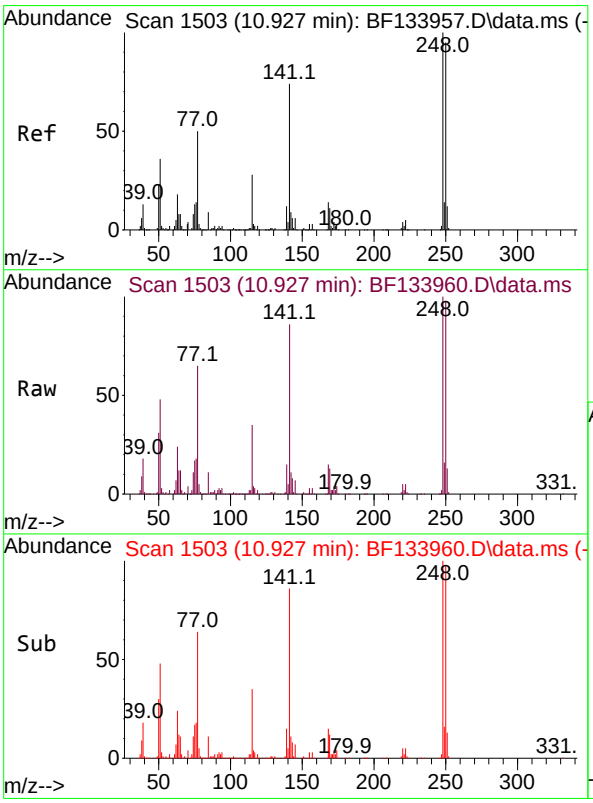
Ion	Ratio	Lower	Upper
169	100		
168	65.8	52.3	78.5
167	36.2	29.4	44.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

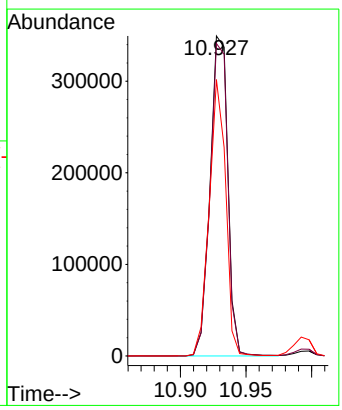
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

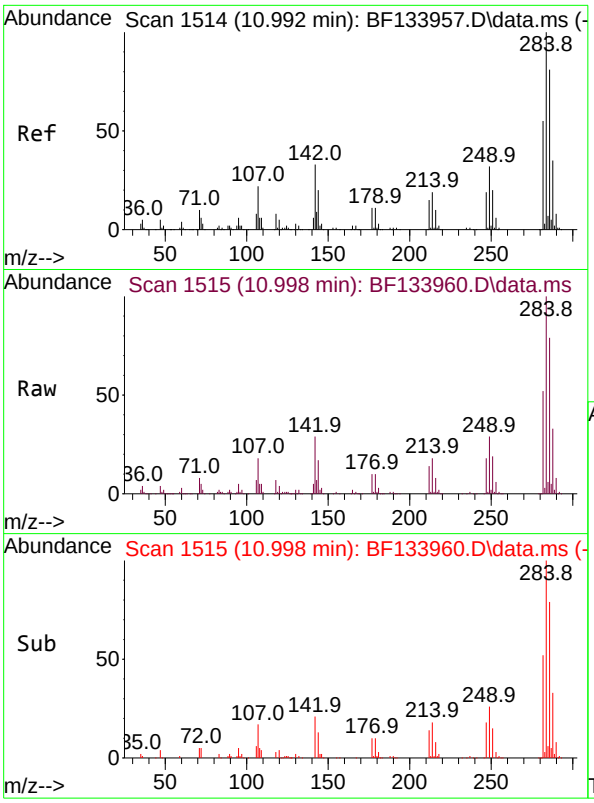


#67
4-Bromophenyl-phenylether
Concen: 73.813 ng
RT: 10.927 min Scan# 1503
Delta R.T. 0.000 min
Lab File: BF133960.D
Acq: 26 Jun 2023 19:21

Tgt Ion:248 Resp: 330523

Ion	Ratio	Lower	Upper
248	100		
250	97.7	76.2	114.4
141	86.4	59.0	88.4

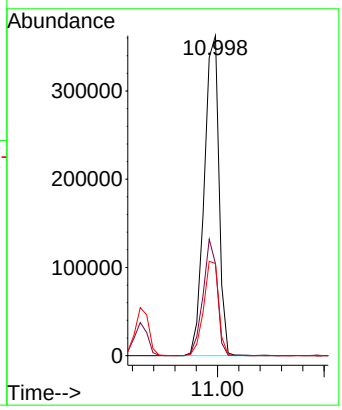




#68
Hexachlorobenzene
Concen: 73.201 ng
RT: 10.998 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF133960.D
Acq: 26 Jun 2023 19:21

Tgt Ion:284 Resp: 34803

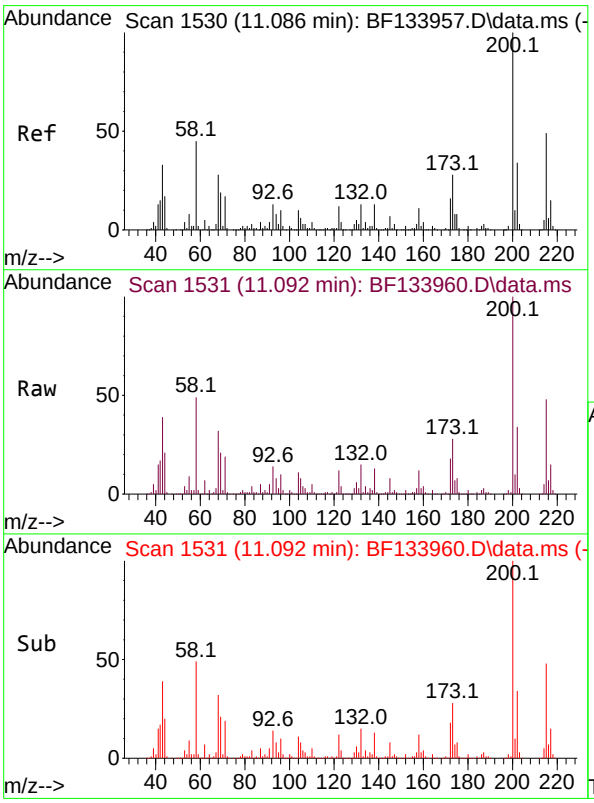
Ion	Ratio	Lower	Upper
284	100		
142	28.8	26.6	40.0
249	28.8	25.5	38.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

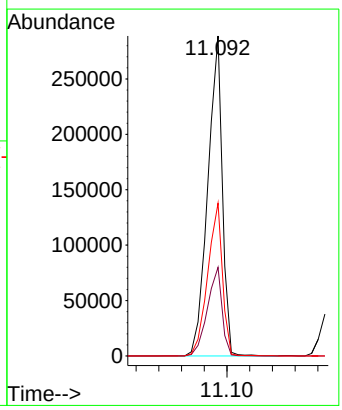
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

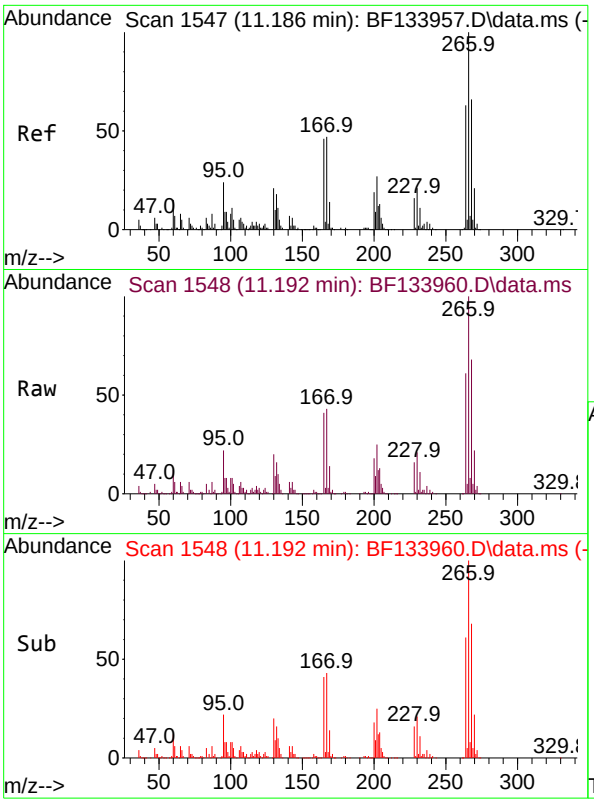


#69
Atrazine
Concen: 68.868 ng
RT: 11.092 min Scan# 1531
Delta R.T. 0.006 min
Lab File: BF133960.D
Acq: 26 Jun 2023 19:21

Tgt Ion:200 Resp: 256413

Ion	Ratio	Lower	Upper
200	100		
173	27.7	8.0	48.0
215	47.8	29.3	69.3

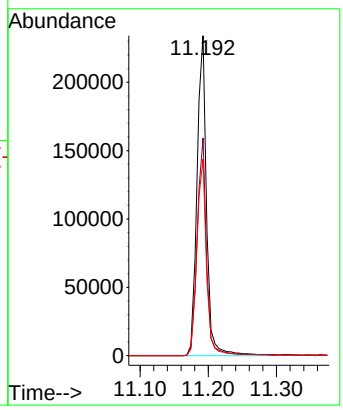




#70
Pentachlorophenol
Concen: 80.129 ng
RT: 11.192 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF133960.D
Acq: 26 Jun 2023 19:21

Tgt Ion:266 Resp: 22778

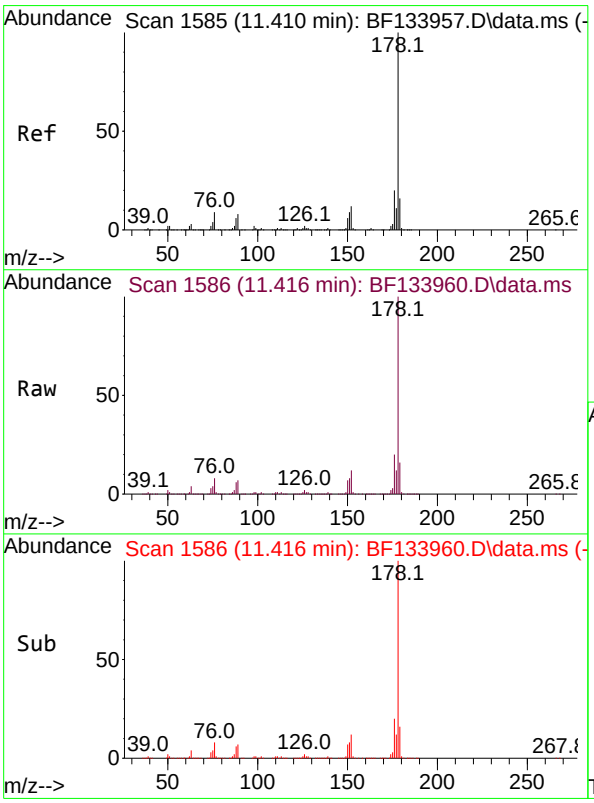
Ion	Ratio	Lower	Upper
266	100		
268	68.0	52.6	79.0
264	61.5	50.6	76.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

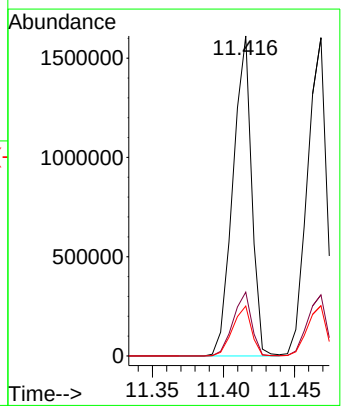
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

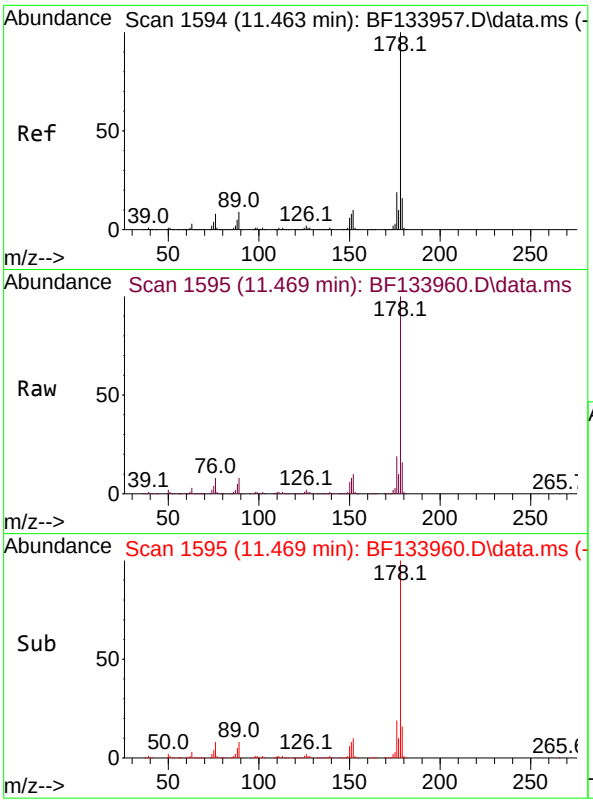


#71
Phenanthrene
Concen: 69.583 ng
RT: 11.416 min Scan# 1586
Delta R.T. 0.006 min
Lab File: BF133960.D
Acq: 26 Jun 2023 19:21

Tgt Ion:178 Resp: 1475753

Ion	Ratio	Lower	Upper
178	100		
176	19.9	16.0	24.0
179	15.6	12.4	18.6

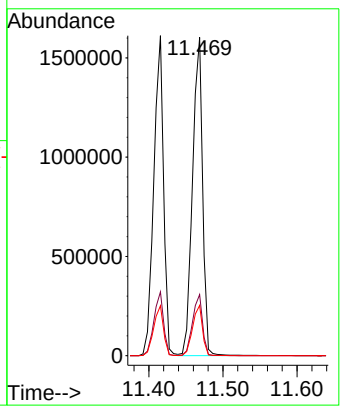




#72
Anthracene
Concen: 68.619 ng
RT: 11.469 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF133960.D
Acq: 26 Jun 2023 19:21

Tgt Ion:178 Resp: 151369

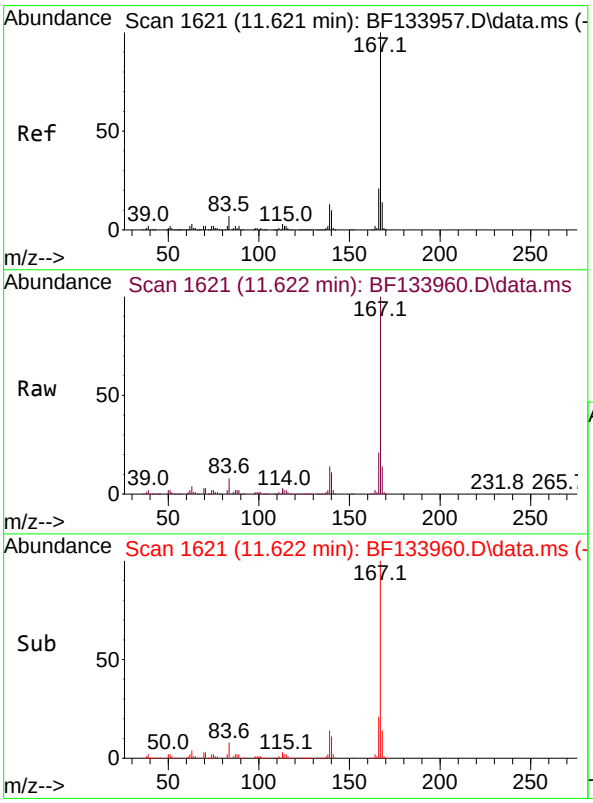
Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.3	22.9
179	15.8	12.4	18.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

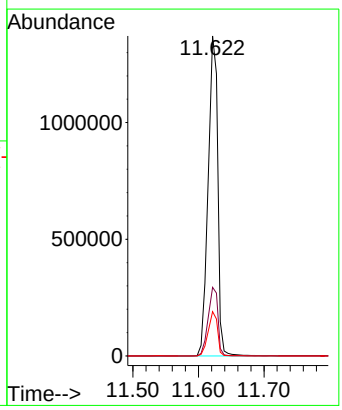
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

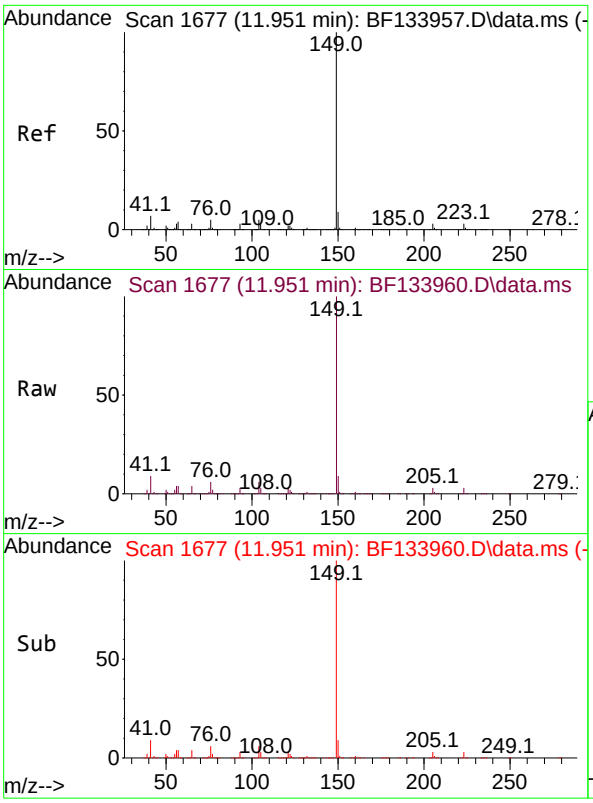


#73
Carbazole
Concen: 69.672 ng
RT: 11.622 min Scan# 1621
Delta R.T. 0.000 min
Lab File: BF133960.D
Acq: 26 Jun 2023 19:21

Tgt Ion:167 Resp: 1406753

Ion	Ratio	Lower	Upper
167	100		
166	21.5	17.0	25.6
139	13.9	10.4	15.6

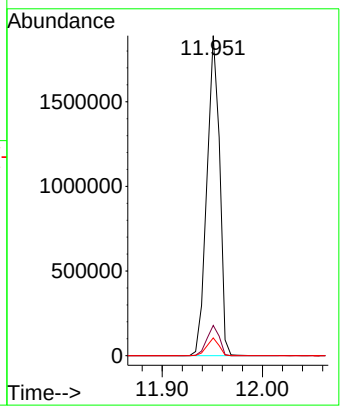




#74
Di-n-butylphthalate
Concen: 69.427 ng
RT: 11.951 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF133960.D
Acq: 26 Jun 2023 19:21

Tgt Ion:149 Resp: 166702

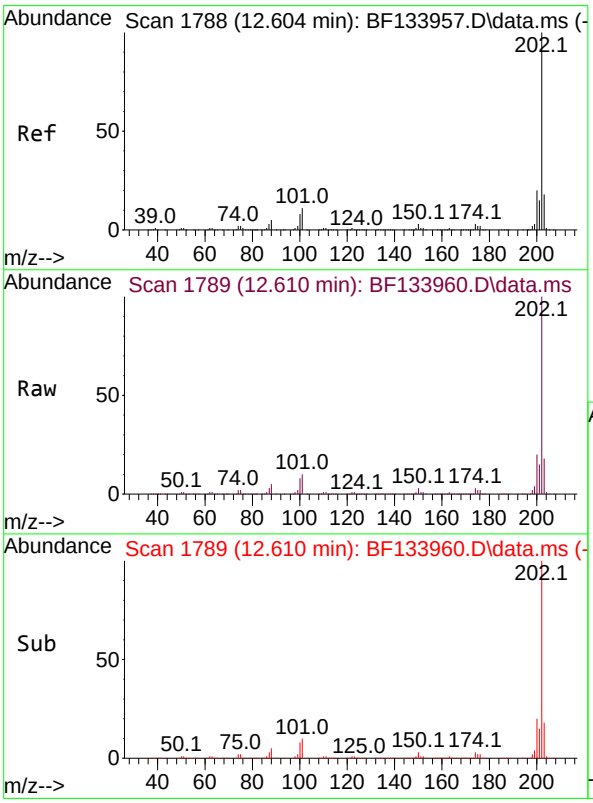
Ion	Ratio	Lower	Upper
149	100		
150	9.5	7.1	10.7
104	5.5	4.0	6.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

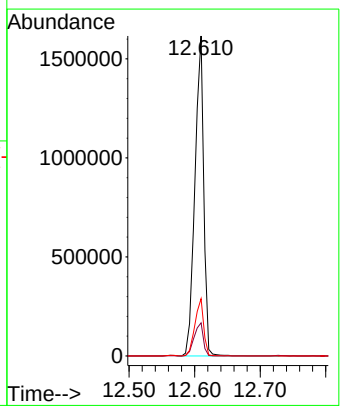
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

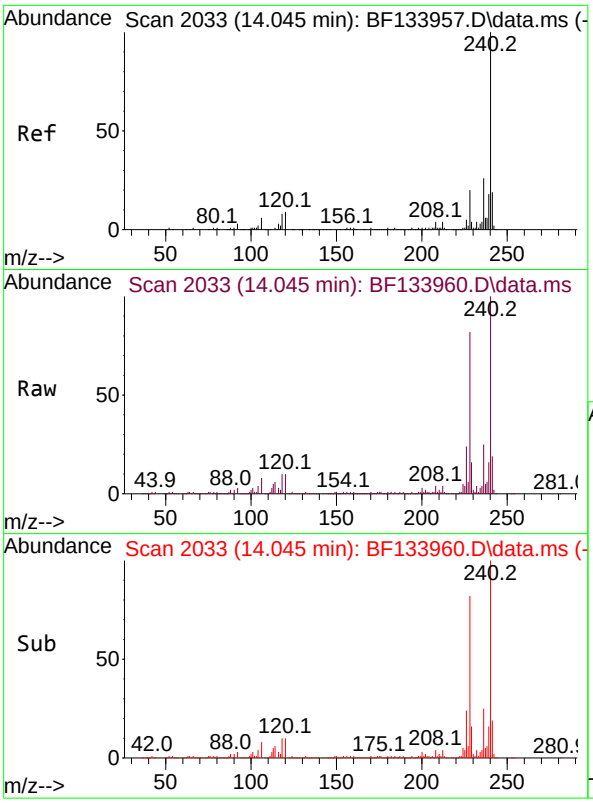


#75
Fluoranthene
Concen: 65.931 ng
RT: 12.610 min Scan# 1789
Delta R.T. 0.006 min
Lab File: BF133960.D
Acq: 26 Jun 2023 19:21

Tgt Ion:202 Resp: 1511710

Ion	Ratio	Lower	Upper
202	100		
101	10.4	0.0	31.0
203	17.9	0.0	37.6

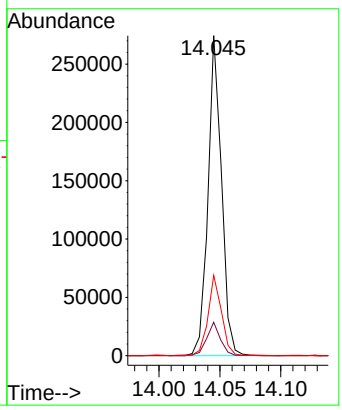




#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.045 min Scan# 2(
Delta R.T. 0.000 min
Lab File: BF133960.D
Acq: 26 Jun 2023 19:21

Tgt Ion:240 Resp: 21161(

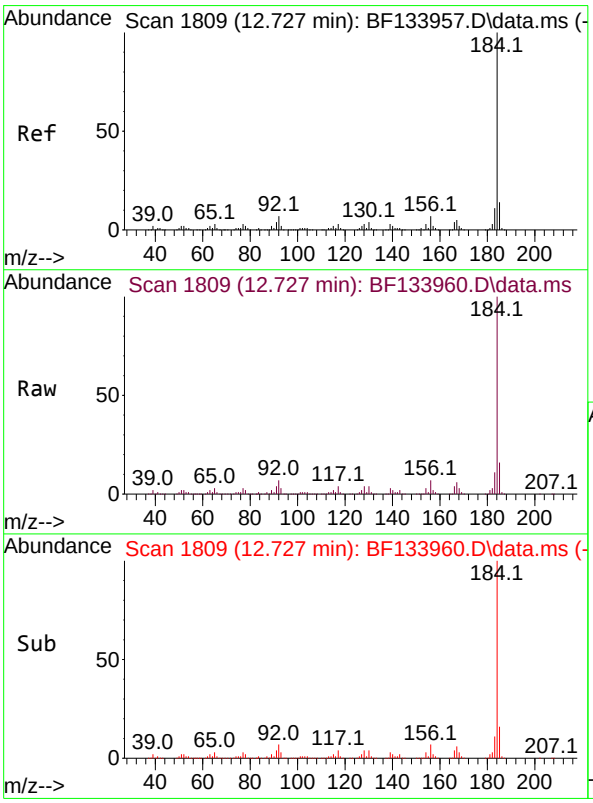
Ion	Ratio	Lower	Upper
240	100		
120	10.4	7.4	11.0
236	25.1	21.0	31.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

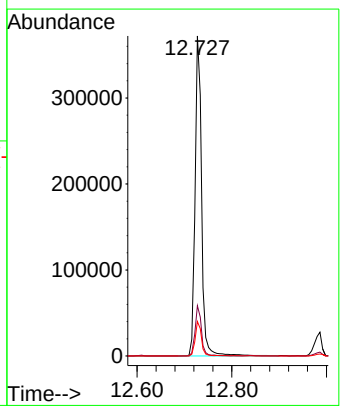
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

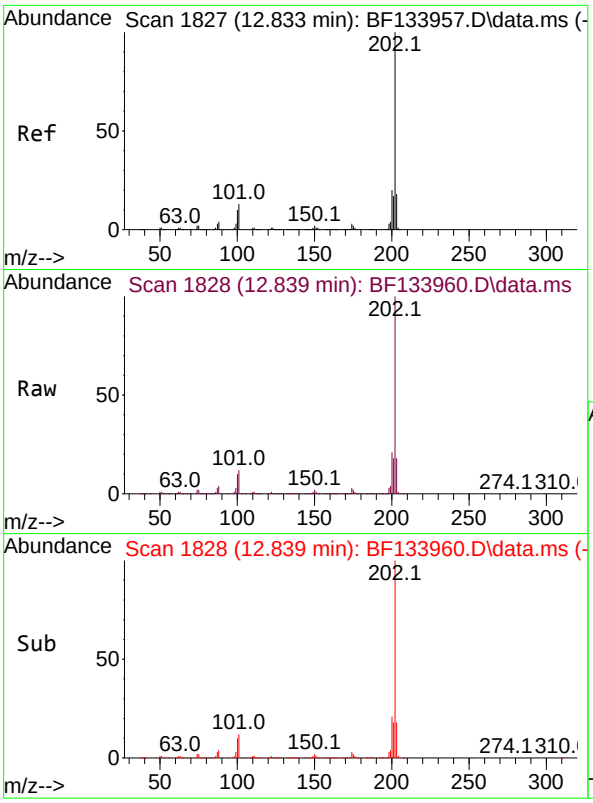


#77
Benzidine
Concen: 70.277 ng
RT: 12.727 min Scan# 1809
Delta R.T. 0.000 min
Lab File: BF133960.D
Acq: 26 Jun 2023 19:21

Tgt Ion:184 Resp: 353863

Ion	Ratio	Lower	Upper
184	100		
185	15.7	11.6	17.4
183	10.7	8.8	13.2

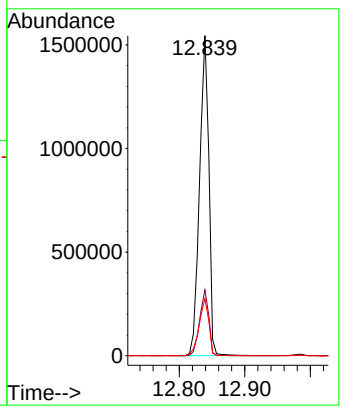




#78
Pyrene
Concen: 77.460 ng
RT: 12.839 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF133960.D
Acq: 26 Jun 2023 19:21

Tgt Ion:202 Resp: 152547

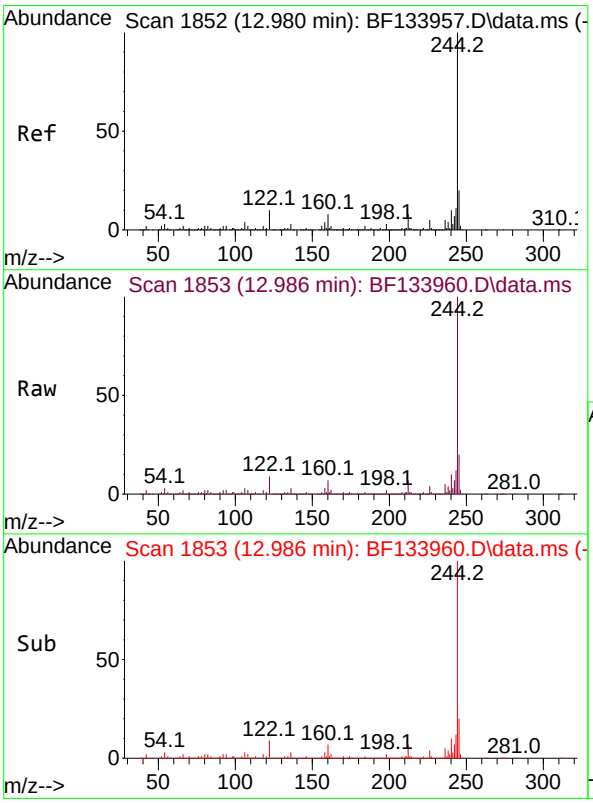
Ion	Ratio	Lower	Upper
202	100		
200	20.6	16.1	24.1
203	17.9	14.3	21.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

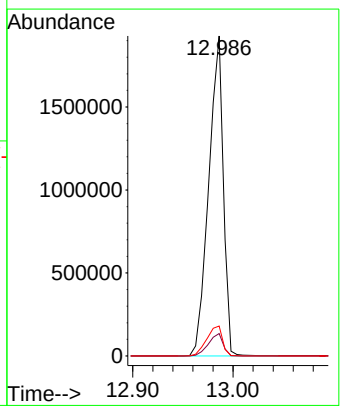
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

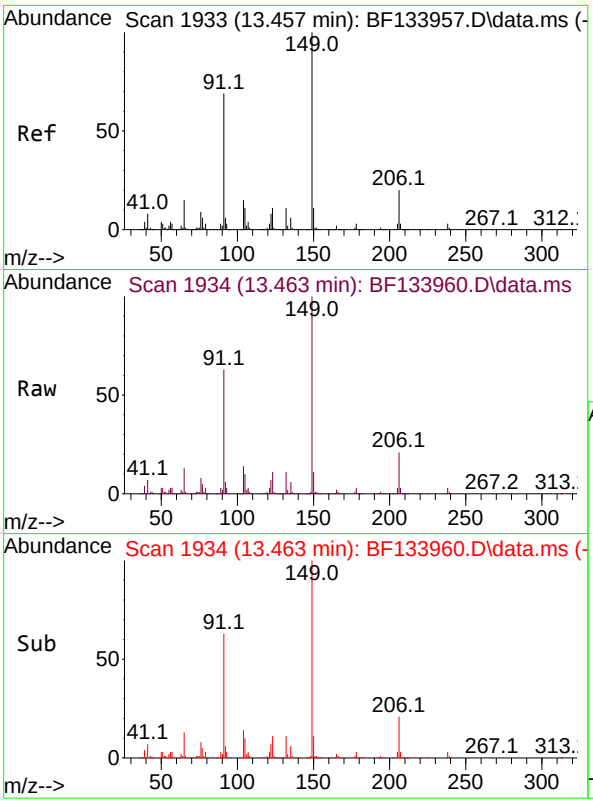


#79
Terphenyl-d14
Concen: 148.885 ng
RT: 12.986 min Scan# 1853
Delta R.T. 0.006 min
Lab File: BF133960.D
Acq: 26 Jun 2023 19:21

Tgt Ion:244 Resp: 1957634

Ion	Ratio	Lower	Upper
244	100		
212	7.0	6.0	9.0
122	9.4	8.3	12.5

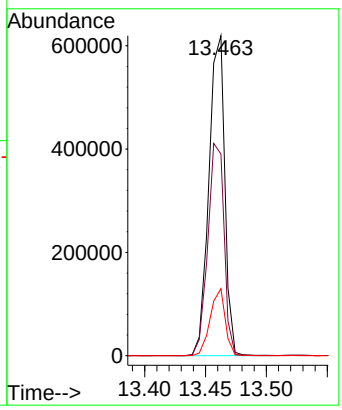




#80
Butylbenzylphthalate
Concen: 76.353 ng
RT: 13.463 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF133960.D
Acq: 26 Jun 2023 19:21

Tgt Ion:149 Resp: 56395

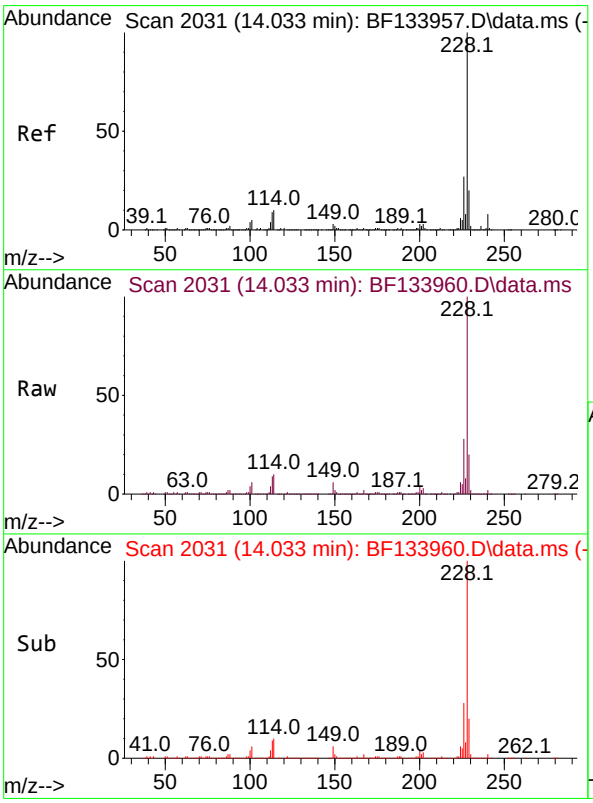
Ion	Ratio	Lower	Upper
149	100		
91	63.0	55.1	82.7
206	20.9	15.7	23.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

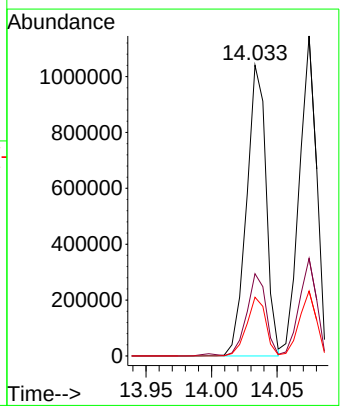
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

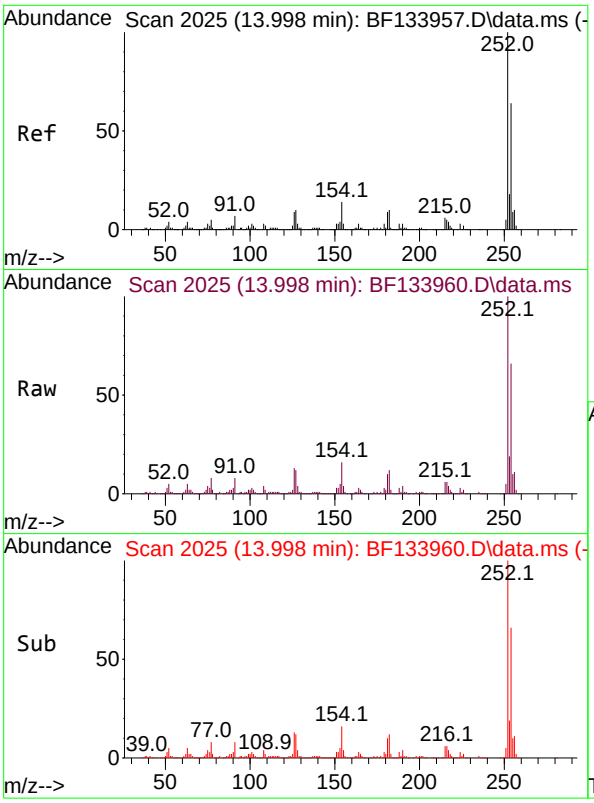


#81
Benzo(a)anthracene
Concen: 73.069 ng
RT: 14.033 min Scan# 2031
Delta R.T. 0.000 min
Lab File: BF133960.D
Acq: 26 Jun 2023 19:21

Tgt Ion:228 Resp: 1072359

Ion	Ratio	Lower	Upper
228	100		
226	28.3	22.0	33.0
229	20.2	16.3	24.5

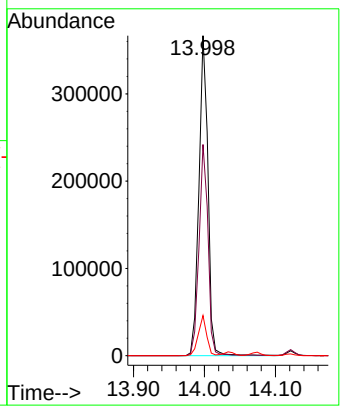




#82
3,3'-Dichlorobenzidine
Concen: 69.952 ng
RT: 13.998 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF133960.D
Acq: 26 Jun 2023 19:21

Tgt Ion:252 Resp: 32525

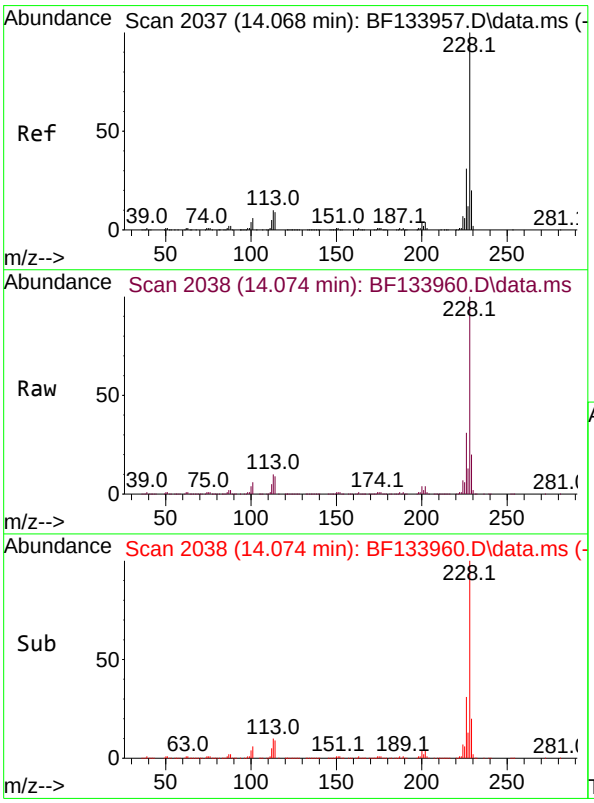
Ion	Ratio	Lower	Upper
252	100		
254	66.0	51.4	77.0
126	12.5	7.4	11.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

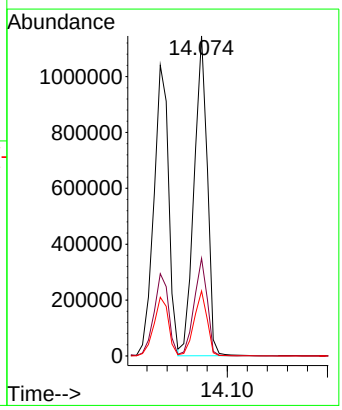
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

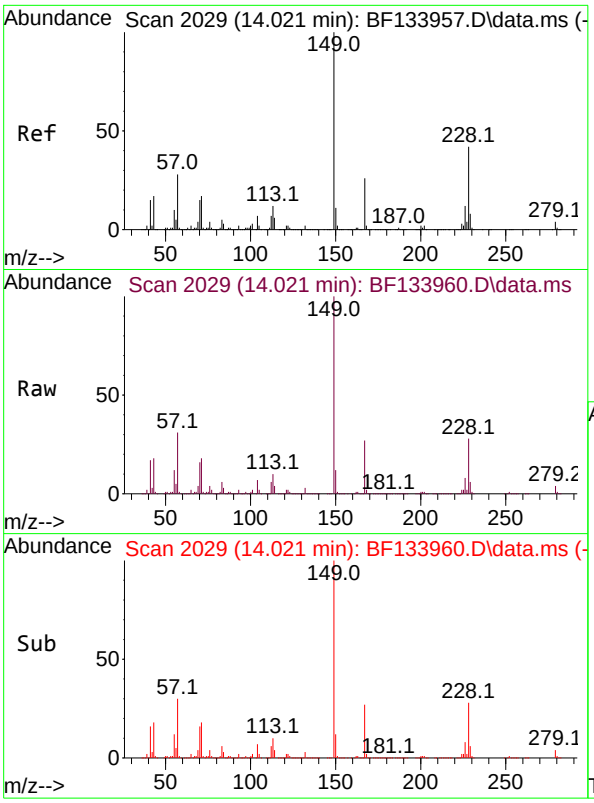


#83
Chrysene
Concen: 73.462 ng
RT: 14.074 min Scan# 2038
Delta R.T. 0.006 min
Lab File: BF133960.D
Acq: 26 Jun 2023 19:21

Tgt Ion:228 Resp: 1044236

Ion	Ratio	Lower	Upper
228	100		
226	30.5	24.4	36.6
229	20.3	16.1	24.1





#84
Bis(2-ethylhexyl)phthalate
Concen: 76.822 ng
RT: 14.021 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF133960.D
Acq: 26 Jun 2023 19:21

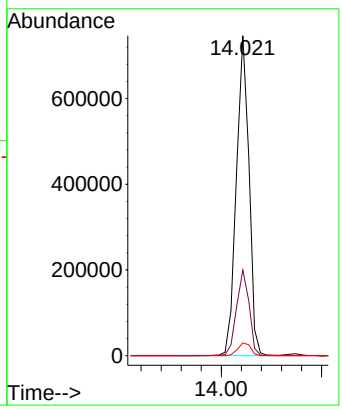
Tgt Ion:149 Resp: 65199

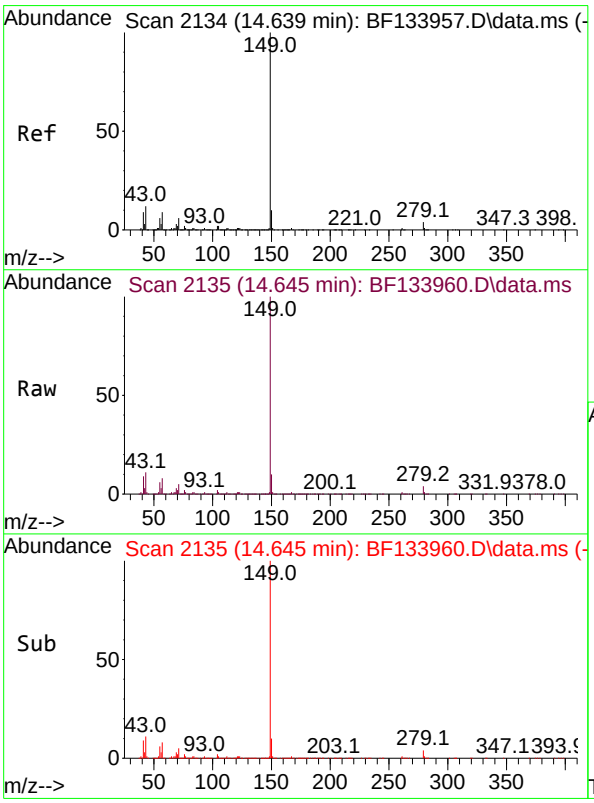
Ion	Ratio	Lower	Upper
149	100		
167	26.8	21.0	31.4
279	4.0	3.3	4.9

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

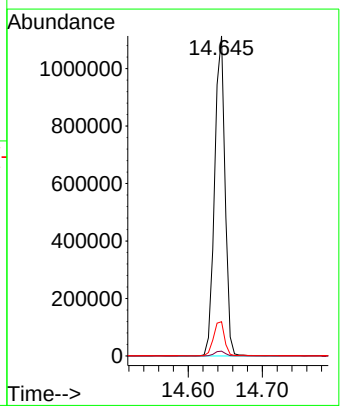


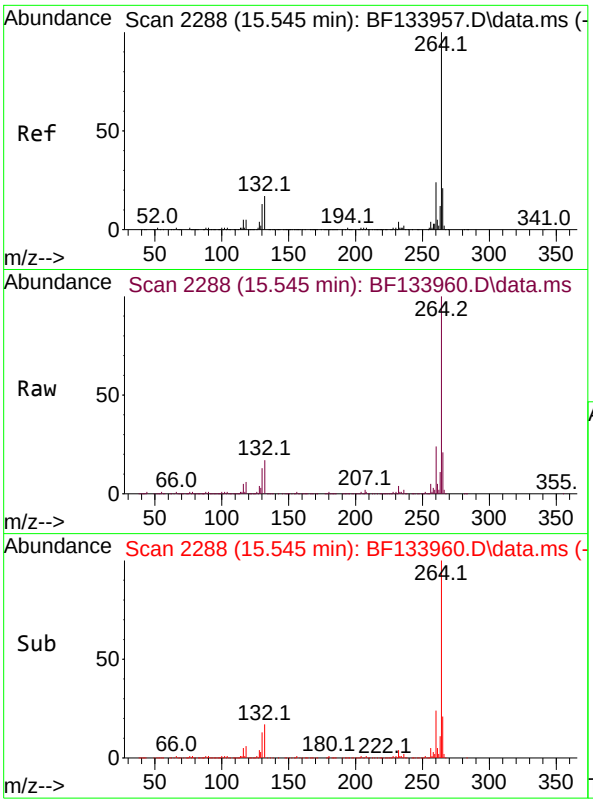


#85
Di-n-octyl phthalate
Concen: 86.660 ng
RT: 14.645 min Scan# 2135
Delta R.T. 0.006 min
Lab File: BF133960.D
Acq: 26 Jun 2023 19:21

Tgt Ion:149 Resp: 1080705

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	11.2	9.0	13.4

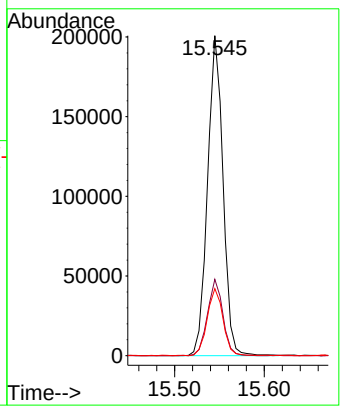




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.545 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF133960.D
Acq: 26 Jun 2023 19:21

Tgt Ion:264 Resp: 24027

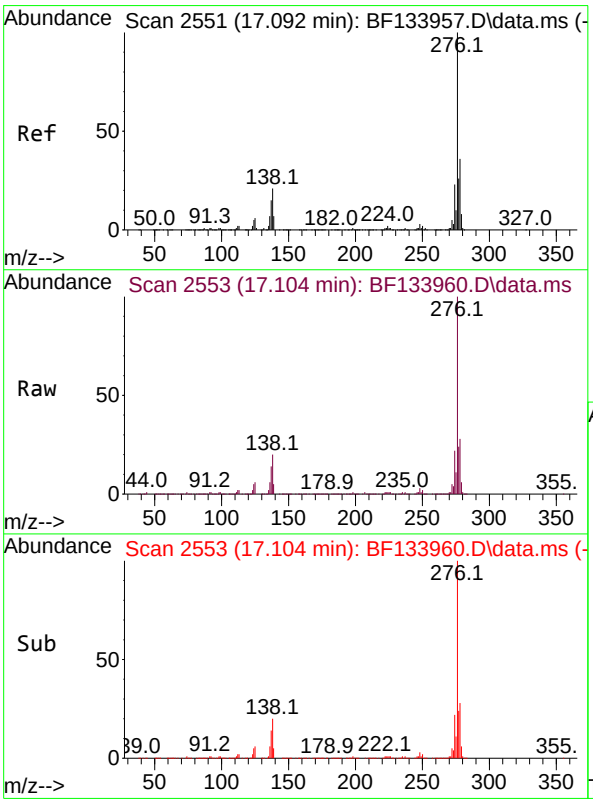
Ion	Ratio	Lower	Upper
264	100		
260	23.9	19.5	29.3
265	21.0	16.6	25.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

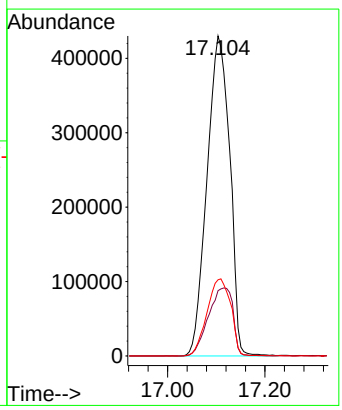
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

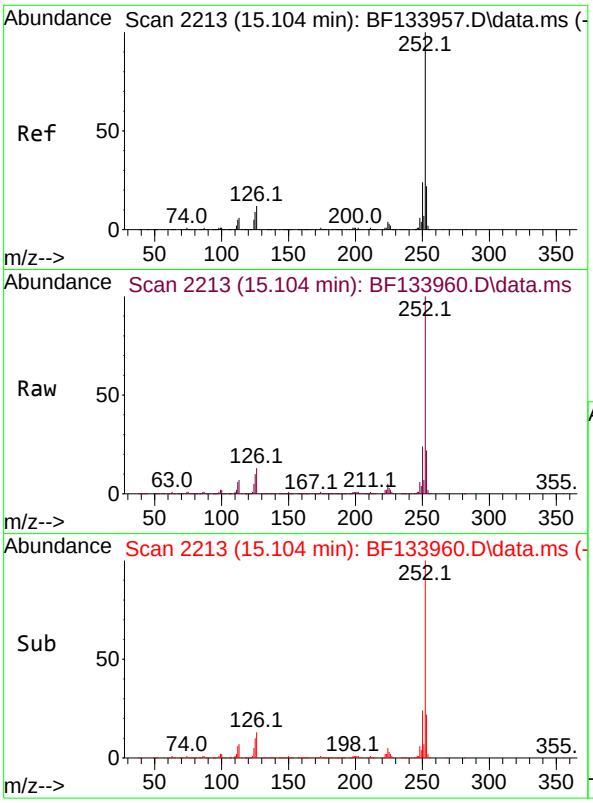


#87
Indeno(1,2,3-cd)pyrene
Concen: 83.553 ng
RT: 17.104 min Scan# 2553
Delta R.T. 0.012 min
Lab File: BF133960.D
Acq: 26 Jun 2023 19:21

Tgt Ion:276 Resp: 1393036

Ion	Ratio	Lower	Upper
276	100		
138	23.0	18.7	28.1
277	25.2	19.9	29.9

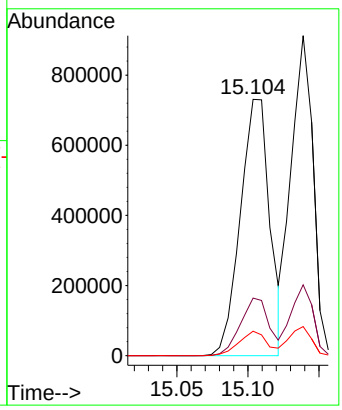




#88
Benzo(b)fluoranthene
Concen: 74.649 ng
RT: 15.104 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF133960.D
Acq: 26 Jun 2023 19:21

Tgt Ion:252 Resp: 105465

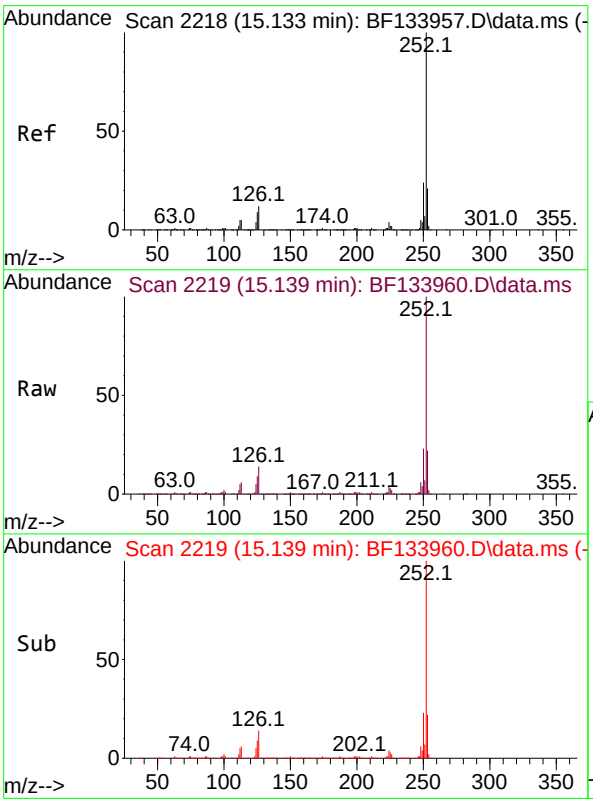
Ion	Ratio	Lower	Upper
252	100		
253	22.5	17.4	26.0
125	9.6	7.1	10.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

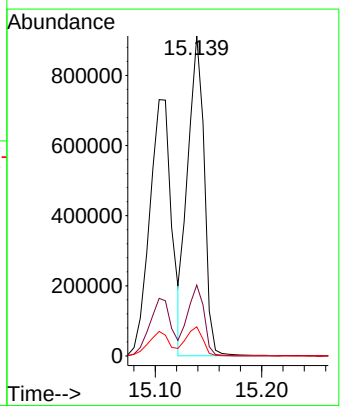
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

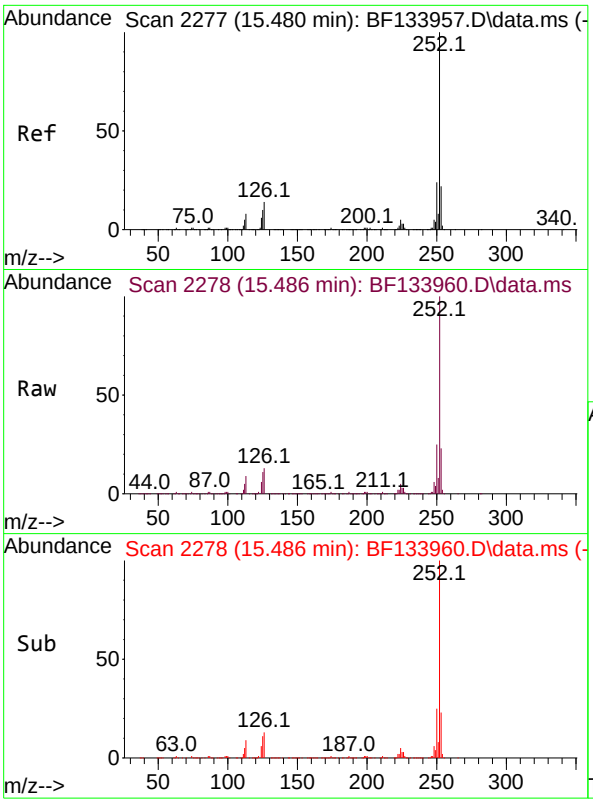


#89
Benzo(k)fluoranthene
Concen: 68.454 ng
RT: 15.139 min Scan# 2219
Delta R.T. 0.006 min
Lab File: BF133960.D
Acq: 26 Jun 2023 19:21

Tgt Ion:252 Resp: 984683

Ion	Ratio	Lower	Upper
252	100		
253	22.1	16.9	25.3
125	9.1	7.4	11.2

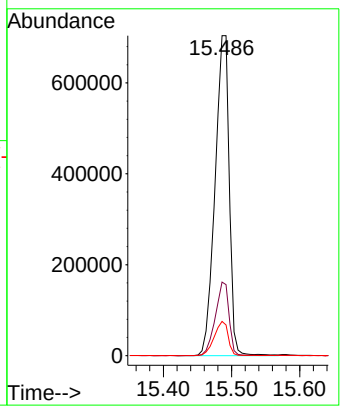




#90
Benzo(a)pyrene
Concen: 74.821 ng
RT: 15.486 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF133960.D
Acq: 26 Jun 2023 19:21

Tgt Ion:252 Resp: 102218

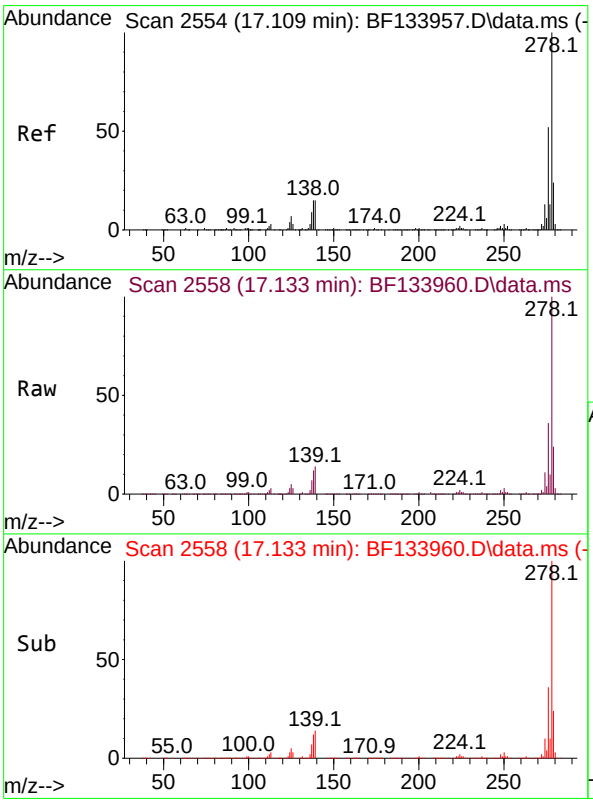
Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.4	26.0
125	10.7	8.4	12.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

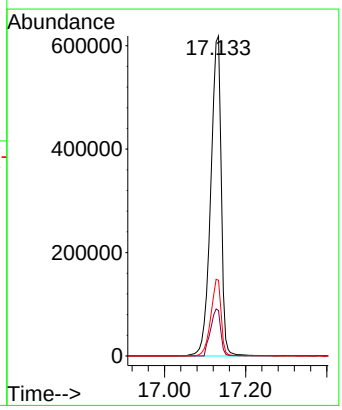
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

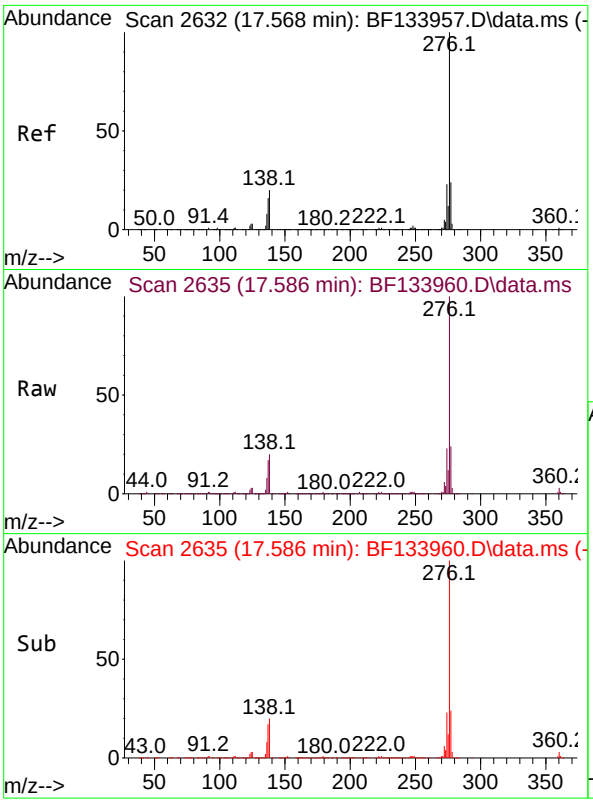


#91
Dibenzo(a,h)anthracene
Concen: 81.405 ng
RT: 17.133 min Scan# 2558
Delta R.T. 0.024 min
Lab File: BF133960.D
Acq: 26 Jun 2023 19:21

Tgt Ion:278 Resp: 1108556

Ion	Ratio	Lower	Upper
278	100		
139	14.2	12.2	18.4
279	23.7	19.4	29.2

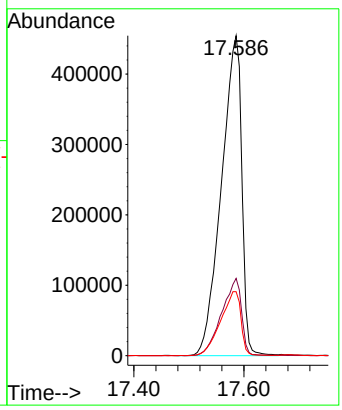




#92
Benzo(g,h,i)perylene
Concen: 83.102 ng
RT: 17.586 min Scan# 2
Delta R.T. 0.018 min
Lab File: BF133960.D
Acq: 26 Jun 2023 19:21

Tgt Ion:276 Resp: 116702

Ion	Ratio	Lower	Upper
276	100		
277	24.1	19.0	28.6
138	20.0	16.2	24.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF062623\
Data File : BF133961.D
Acq On : 26 Jun 2023 19:56
Operator : CG\JU
Sample : SSTDICV040
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF062623

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

Quant Time: Jun 26 23:13:47 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF062623.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Jun 26 23:12:04 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.851	152	131215	20.000	ng		0.00
21) Naphthalene-d8	8.133	136	484510	20.000	ng		0.00
39) Acenaphthene-d10	9.892	164	245309	20.000	ng		0.00
64) Phenanthrene-d10	11.380	188	451008	20.000	ng		0.00
76) Chrysene-d12	14.045	240	281139	20.000	ng		0.00
86) Perylene-d12	15.545	264	246066	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.481	112	594707	75.815	ng		0.00
7) Phenol-d6	6.492	99	761594	78.948	ng		0.00
23) Nitrobenzene-d5	7.416	82	711523	79.162	ng		0.00
42) 2,4,6-Tribromophenol	10.686	330	233983	76.075	ng		0.00
45) 2-Fluorobiphenyl	9.210	172	1289651	76.435	ng		0.00
79) Terphenyl-d14	12.980	244	1365393	78.164	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.634	88	126118	38.993	ng		98
3) Pyridine	3.410	79	335290	39.798	ng		98
4) n-Nitrosodimethylamine	3.381	42	188588	39.194	ng		96
6) Aniline	6.522	93	478851	40.792	ng		98
8) 2-Chlorophenol	6.639	128	314723	39.524	ng		97
9) Benzaldehyde	6.404	77	215487	40.892	ng		96
10) Phenol	6.504	94	404898	39.919	ng		98
11) bis(2-Chloroethyl)ether	6.592	93	297832	39.884	ng		99
12) 1,3-Dichlorobenzene	6.792	146	330828	38.970	ng		98
13) 1,4-Dichlorobenzene	6.869	146	335648	39.145	ng		99
14) 1,2-Dichlorobenzene	7.022	146	318184	39.622	ng		98
15) Benzyl Alcohol	6.992	79	295719	39.764	ng		99
16) 2,2'-oxybis(1-Chloropr...	7.128	45	533281	40.367	ng		99
17) 2-Methylphenol	7.104	107	285806	40.082	ng		98
18) Hexachloroethane	7.357	117	126526	39.796	ng		92
19) n-Nitroso-di-n-propyla...	7.269	70	235778	38.540	ng		98
20) 3+4-Methylphenols	7.257	107	338808	39.166	ng	#	83
22) Acetophenone	7.263	105	424093	38.487	ng		97
24) Nitrobenzene	7.433	77	361735	39.827	ng		96
25) Isophorone	7.669	82	637800	39.044	ng		98
26) 2-Nitrophenol	7.751	139	180421	41.408	ng		95
27) 2,4-Dimethylphenol	7.786	122	272827	39.557	ng		99
28) bis(2-Chloroethoxy)met...	7.880	93	366328	38.729	ng		99
29) 2,4-Dichlorophenol	7.986	162	268766	39.298	ng		97
30) 1,2,4-Trichlorobenzene	8.075	180	276140	39.130	ng		99
31) Naphthalene	8.157	128	921860	39.390	ng		100
32) Benzoic acid	7.904	122	219990m	42.566	ng		
33) 4-Chloroaniline	8.204	127	394317	39.388	ng		100
34) Hexachlorobutadiene	8.269	225	172278	38.700	ng		99
35) Caprolactam	8.586	113	91138	40.472	ng		97
36) 4-Chloro-3-methylphenol	8.686	107	302439	39.364	ng		99
37) 2-Methylnaphthalene	8.845	142	641877	38.784	ng		99
38) 1-Methylnaphthalene	8.945	142	589945	38.344	ng		99
40) 1,2,4,5-Tetrachloroben...	9.010	216	293647	40.405	ng		98
41) Hexachlorocyclopentadiene	8.992	237	143349	41.576	ng		98
43) 2,4,6-Trichlorophenol	9.122	196	193846	39.181	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF062623\
Data File : BF133961.D
Acq On : 26 Jun 2023 19:56
Operator : CG\JU
Sample : SSTDICV040
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 26 23:13:47 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF062623.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Jun 26 23:12:04 2023
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
ICVBF062623

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.163	196	231276	39.741	ng	98
46) 1,1'-Biphenyl	9.310	154	776886	39.480	ng	99
47) 2-Chloronaphthalene	9.339	162	564133	39.183	ng	99
48) 2-Nitroaniline	9.433	65	215694	41.107	ng	99
49) Acenaphthylene	9.751	152	976923	39.721	ng	99
50) Dimethylphthalate	9.616	163	704253	39.549	ng	99
51) 2,6-Dinitrotoluene	9.680	165	157137	40.971	ng	94
52) Acenaphthene	9.927	154	564497	39.555	ng	99
53) 3-Nitroaniline	9.851	138	188853	41.045	ng	96
54) 2,4-Dinitrophenol	9.957	184	86353	40.967	ng	94
55) Dibenzofuran	10.098	168	883533	39.614	ng	99
56) 4-Nitrophenol	10.010	139	137151	42.614	ng	94
57) 2,4-Dinitrotoluene	10.086	165	208123	41.090	ng	97
58) Fluorene	10.445	166	686283	39.551	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.216	232	184494	40.191	ng	100
60) Diethylphthalate	10.316	149	731255	39.416	ng	99
61) 4-Chlorophenyl-phenyle...	10.433	204	323277	38.659	ng	99
62) 4-Nitroaniline	10.469	138	187546	40.446	ng	99
63) Azobenzene	10.598	77	667066	38.012	ng	99
65) 4,6-Dinitro-2-methylph...	10.492	198	115551	46.994	ng	79
66) n-Nitrosodiphenylamine	10.557	169	612625	42.514	ng	99
67) 4-Bromophenyl-phenylether	10.927	248	205587	42.887	ng	96
68) Hexachlorobenzene	10.992	284	216552	42.547	ng	95
69) Atrazine	11.086	200	166137	41.681	ng	99
70) Pentachlorophenol	11.186	266	124633	40.954	ng	98
71) Phenanthrene	11.410	178	903934	39.813	ng	100
72) Anthracene	11.463	178	928065	39.299	ng	99
73) Carbazole	11.616	167	878934	40.663	ng	98
74) Di-n-butylphthalate	11.951	149	1046757	40.723	ng	100
75) Fluoranthene	12.604	202	1036993	42.248	ng	100
77) Benzidine	12.727	184	267486	39.986	ng	99
78) Pyrene	12.833	202	1045698	39.967	ng	99
80) Butylbenzylphthalate	13.457	149	376918	38.411	ng	100
81) Benzo(a)anthracene	14.033	228	760598	39.010	ng	99
82) 3,3'-Dichlorobenzidine	13.998	252	228869	37.051	ng	98
83) Chrysene	14.068	228	705036	37.334	ng	99
84) Bis(2-ethylhexyl)phtha...	14.021	149	460777	40.866	ng	100
85) Di-n-octyl phthalate	14.639	149	660551	39.870	ng	100
87) Indeno(1,2,3-cd)pyrene	17.092	276	749676	43.906	ng	100
88) Benzo(b)fluoranthene	15.104	252	589738	40.759	ng	99
89) Benzo(k)fluoranthene	15.133	252	571633	38.803	ng	99
90) Benzo(a)pyrene	15.480	252	562979	40.238	ng	99
91) Dibenzo(a,h)anthracene	17.115	278	611348	43.836	ng	98
92) Benzo(g,h,i)perylene	17.562	276	674300	46.885	ng	98

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

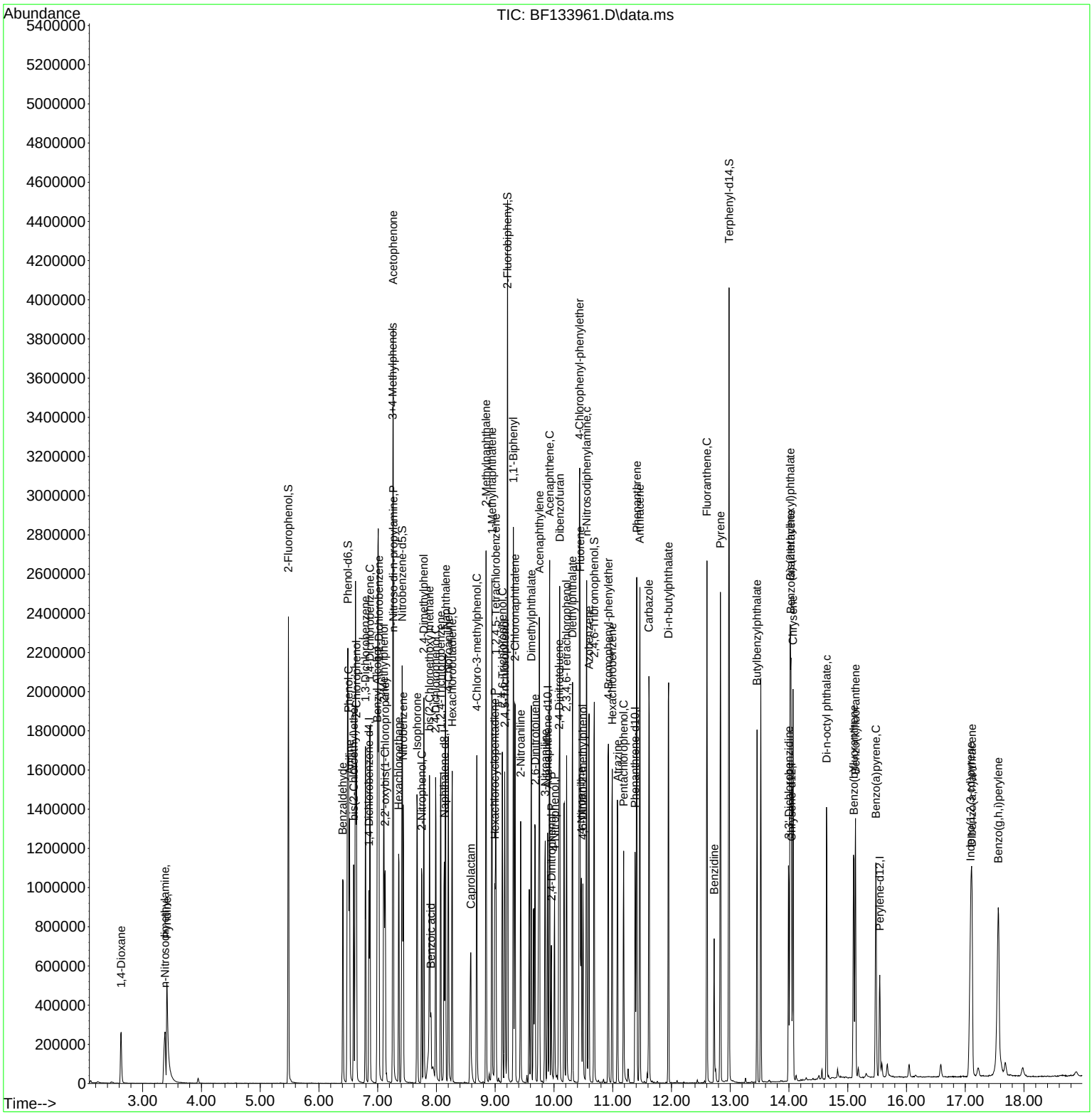
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF062623\
Data File : BF133961.D
Acq On : 26 Jun 2023 19:56
Operator : CG\JU
Sample : SSTDICV040
Misc :
ALS Vial : 6 Sample Multiplier: 1

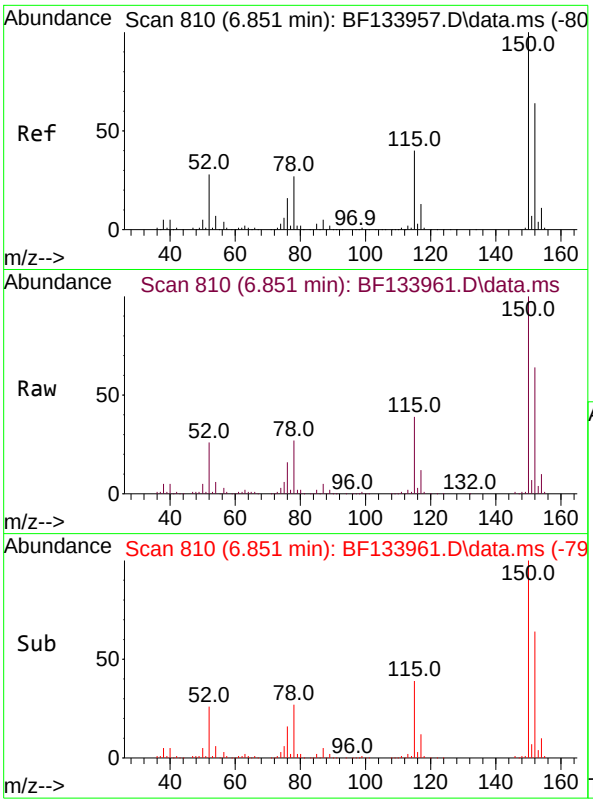
Quant Time: Jun 26 23:13:47 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF062623.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Jun 26 23:12:04 2023
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
ICVBF062623

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

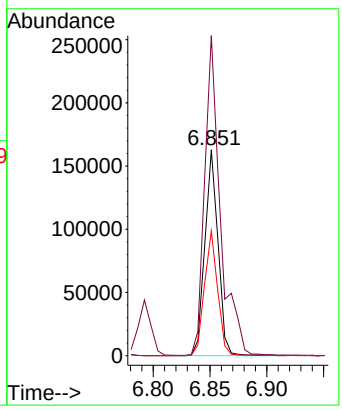




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.851 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF133961.D
Acq: 26 Jun 2023 19:56

Tgt Ion:152 Resp: 13121

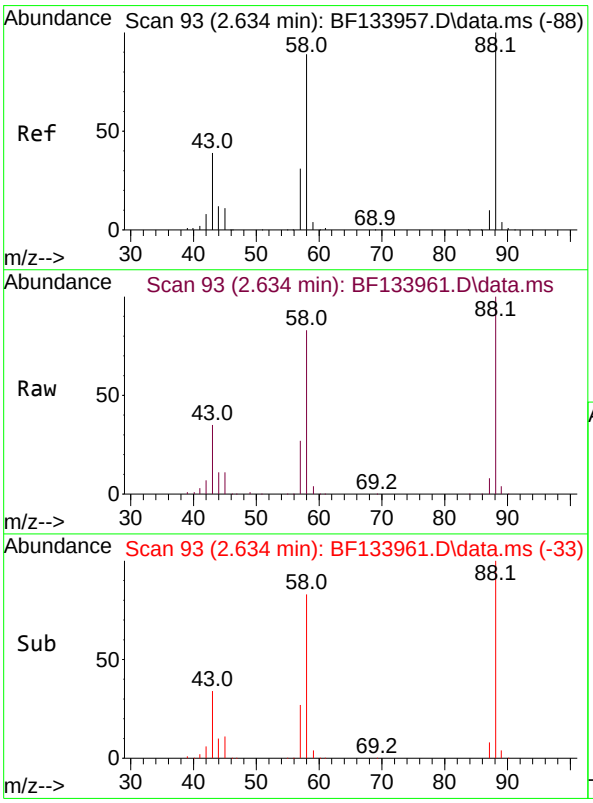
Ion	Ratio	Lower	Upper
152	100		
150	155.4	124.5	186.7
115	60.6	50.2	75.2



Instrument :
BNA_F
ClientSampleId :
ICVBF062623

Manual Integrations APPROVED

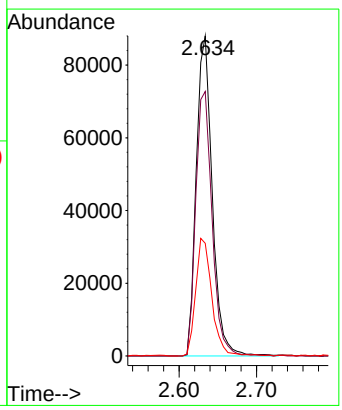
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

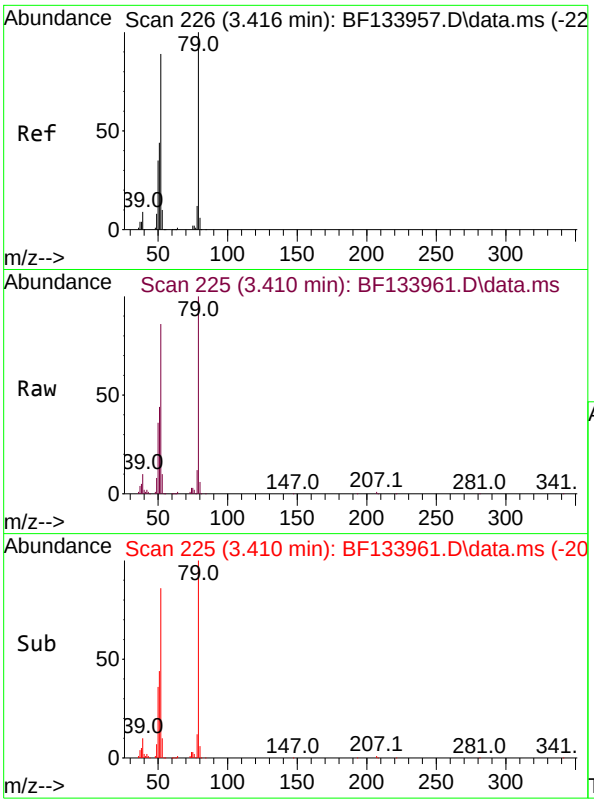


#2
1,4-Dioxane
Concen: 38.993 ng
RT: 2.634 min Scan# 93
Delta R.T. -0.000 min
Lab File: BF133961.D
Acq: 26 Jun 2023 19:56

Tgt Ion: 88 Resp: 126118

Ion	Ratio	Lower	Upper
88	100		
58	84.6	68.8	103.2
43	37.4	30.7	46.1

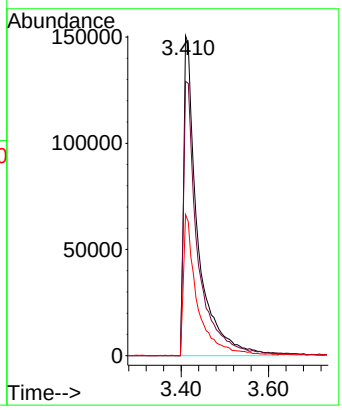




#3
Pyridine
Concen: 39.798 ng
RT: 3.410 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF133961.D
Acq: 26 Jun 2023 19:56

Tgt Ion: 79 Resp: 33529

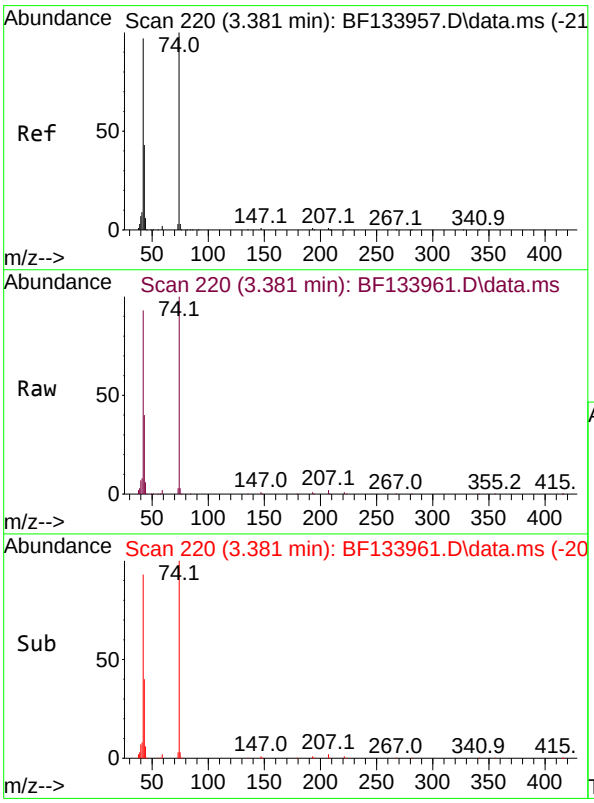
Ion	Ratio	Lower	Upper
79	100		
52	85.7	71.1	106.7
51	44.1	35.2	52.8



Instrument :
BNA_F
ClientSampleId :
ICVBF062623

Manual Integrations
APPROVED

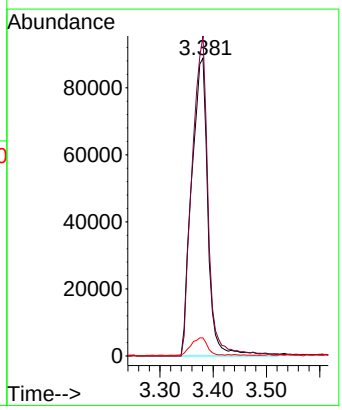
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

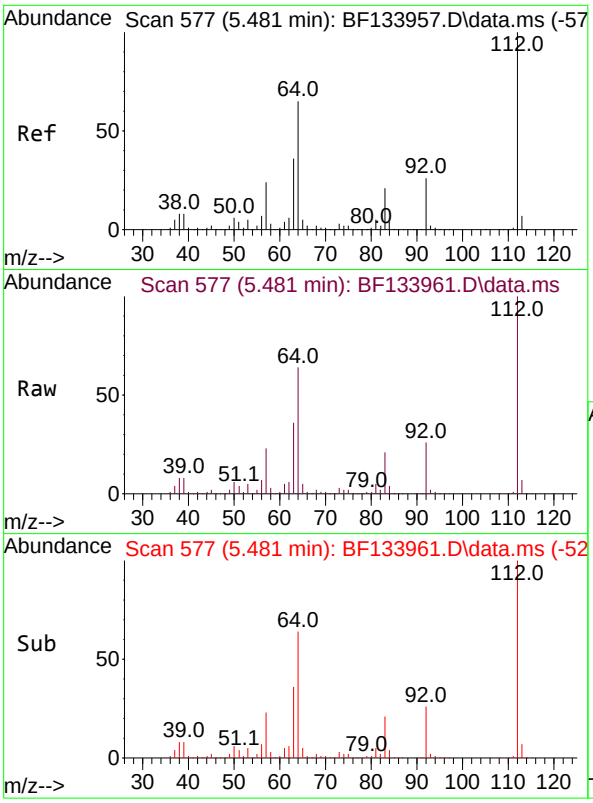


#4
n-Nitrosodimethylamine
Concen: 39.194 ng
RT: 3.381 min Scan# 220
Delta R.T. -0.000 min
Lab File: BF133961.D
Acq: 26 Jun 2023 19:56

Tgt Ion: 42 Resp: 188588

Ion	Ratio	Lower	Upper
42	100		
74	107.5	82.4	123.6
44	6.1	4.9	7.3

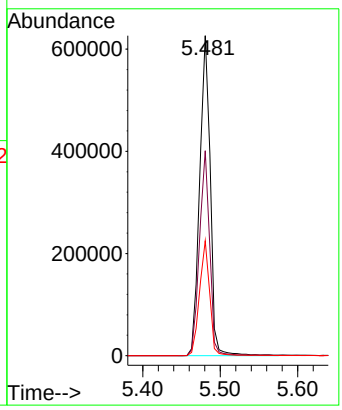




#5
2-Fluorophenol
Concen: 75.815 ng
RT: 5.481 min Scan# 5
Delta R.T. -0.000 min
Lab File: BF133961.D
Acq: 26 Jun 2023 19:56

Tgt Ion:112 Resp: 59470

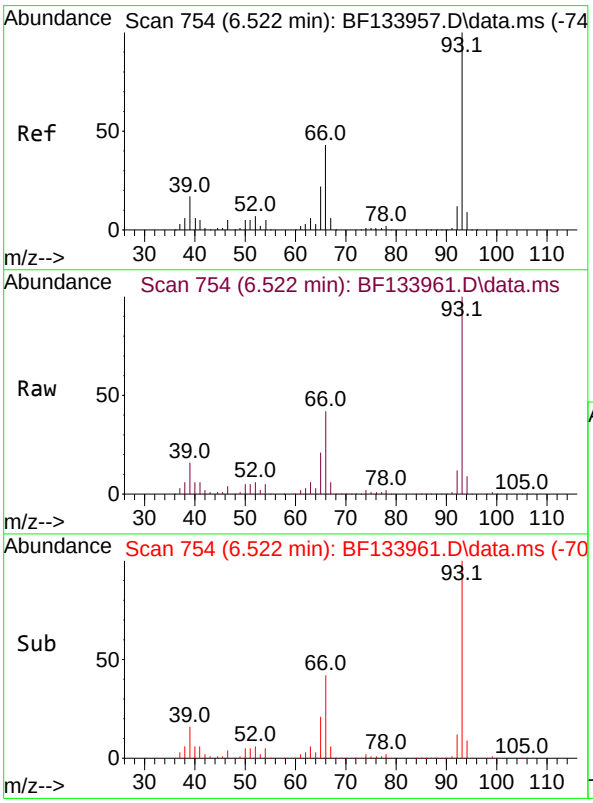
Ion	Ratio	Lower	Upper
112	100		
64	64.0	52.1	78.1
63	35.9	28.6	42.8



Instrument :
BNA_F
ClientSampleId :
ICVBF062623

Manual Integrations APPROVED

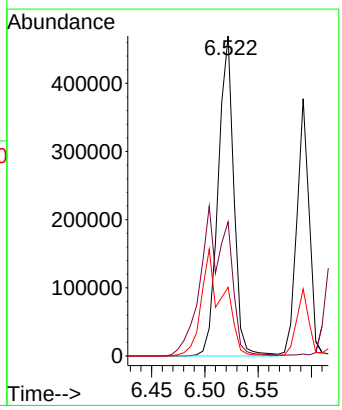
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

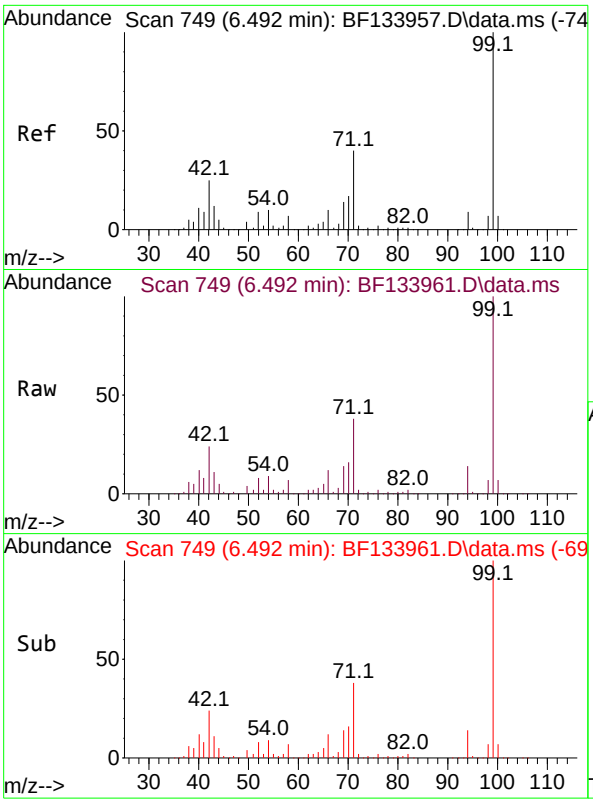


#6
Aniline
Concen: 40.792 ng
RT: 6.522 min Scan# 754
Delta R.T. 0.000 min
Lab File: BF133961.D
Acq: 26 Jun 2023 19:56

Tgt Ion: 93 Resp: 478851

Ion	Ratio	Lower	Upper
93	100		
66	41.9	34.5	51.7
65	21.5	17.8	26.6

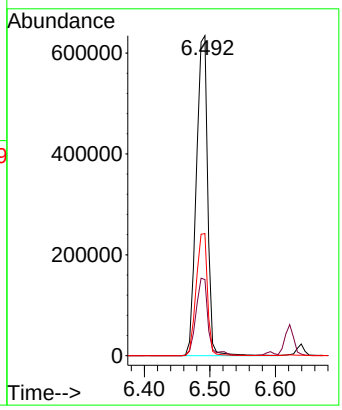




#7
Phenol-d6
Concen: 78.948 ng
RT: 6.492 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF133961.D
Acq: 26 Jun 2023 19:56

Tgt Ion: 99 Resp: 76159

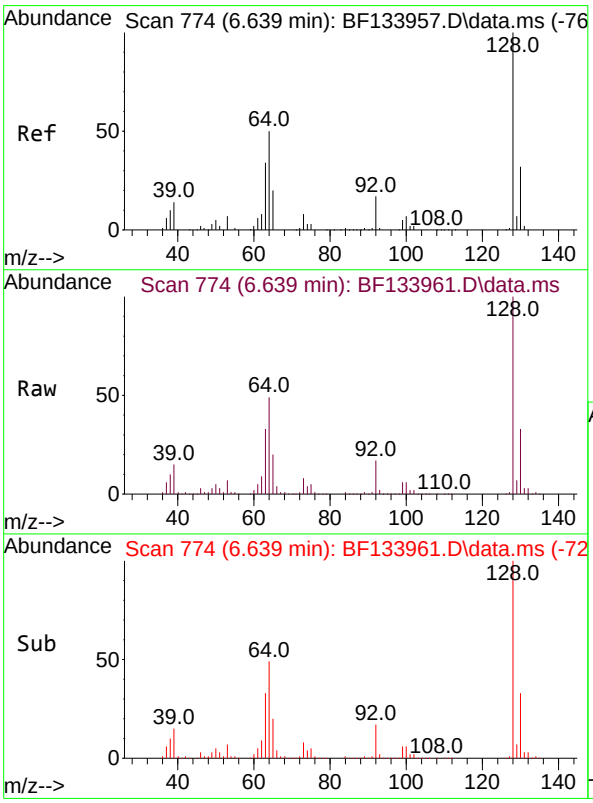
Ion	Ratio	Lower	Upper
99	100		
42	23.8	19.8	29.6
71	38.2	31.9	47.9



Instrument :
BNA_F
ClientSampleId :
ICVBF062623

Manual Integrations APPROVED

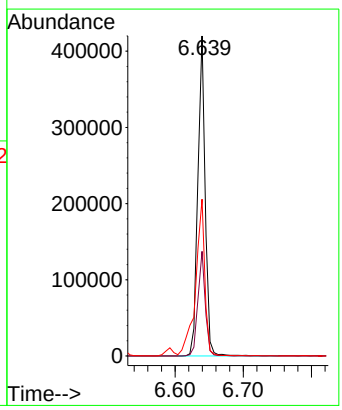
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

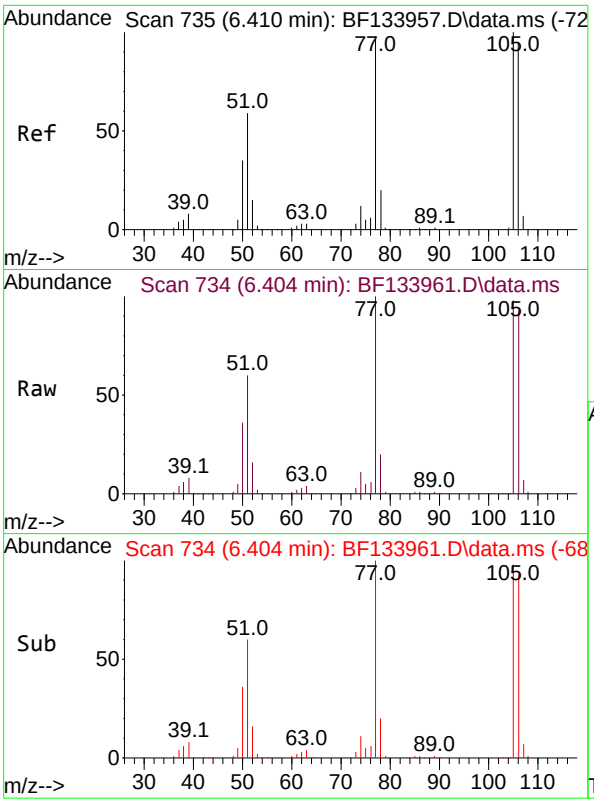


#8
2-Chlorophenol
Concen: 39.524 ng
RT: 6.639 min Scan# 774
Delta R.T. -0.000 min
Lab File: BF133961.D
Acq: 26 Jun 2023 19:56

Tgt Ion:128 Resp: 314723

Ion	Ratio	Lower	Upper
128	100		
130	32.7	11.7	51.7
64	49.0	31.3	71.3

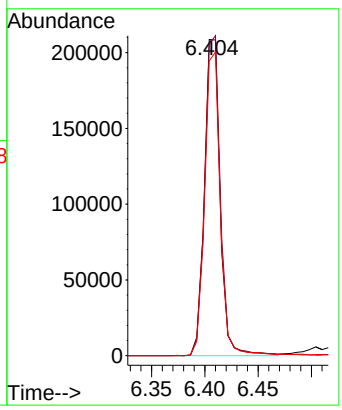




#9
Benzaldehyde
Concen: 40.892 ng
RT: 6.404 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF133961.D
Acq: 26 Jun 2023 19:56

Tgt Ion: 77 Resp: 21548

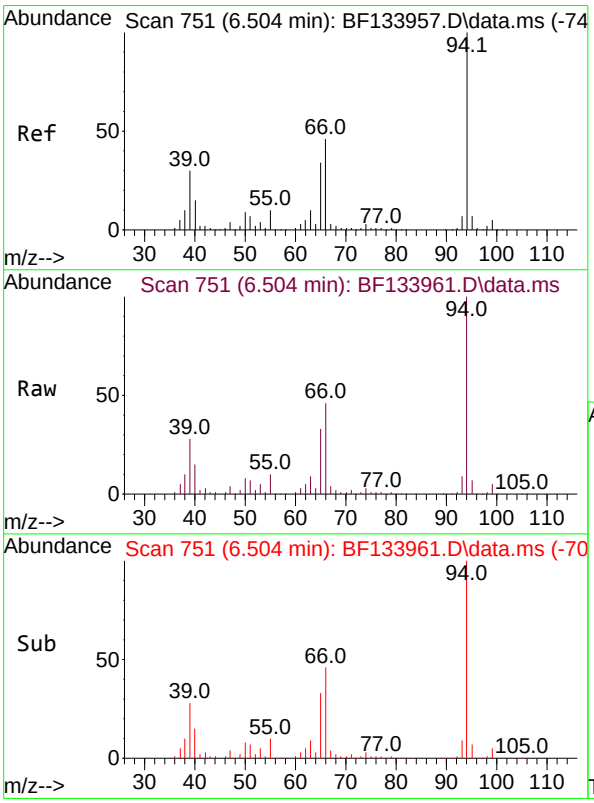
Ion	Ratio	Lower	Upper
77	100		
105	98.5	82.0	122.0
106	93.2	76.9	116.9



Instrument :
BNA_F
ClientSampleId :
ICVBF062623

Manual Integrations
APPROVED

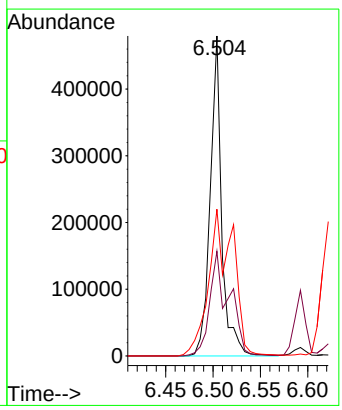
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

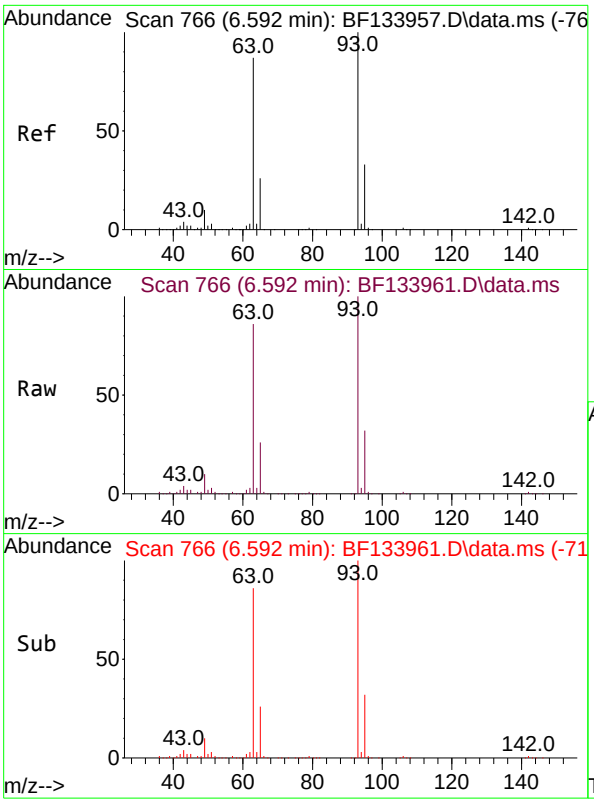


#10
Phenol
Concen: 39.919 ng
RT: 6.504 min Scan# 751
Delta R.T. -0.000 min
Lab File: BF133961.D
Acq: 26 Jun 2023 19:56

Tgt Ion: 94 Resp: 404898

Ion	Ratio	Lower	Upper
94	100		
65	32.7	14.2	54.2
66	45.8	26.4	66.4





#11
bis(2-Chloroethyl)ether
Concen: 39.884 ng
RT: 6.592 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF133961.D
Acq: 26 Jun 2023 19:56

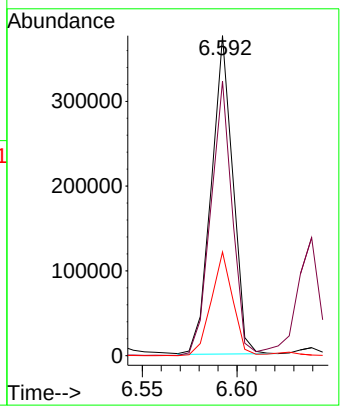
Tgt Ion: 93 Resp: 29783

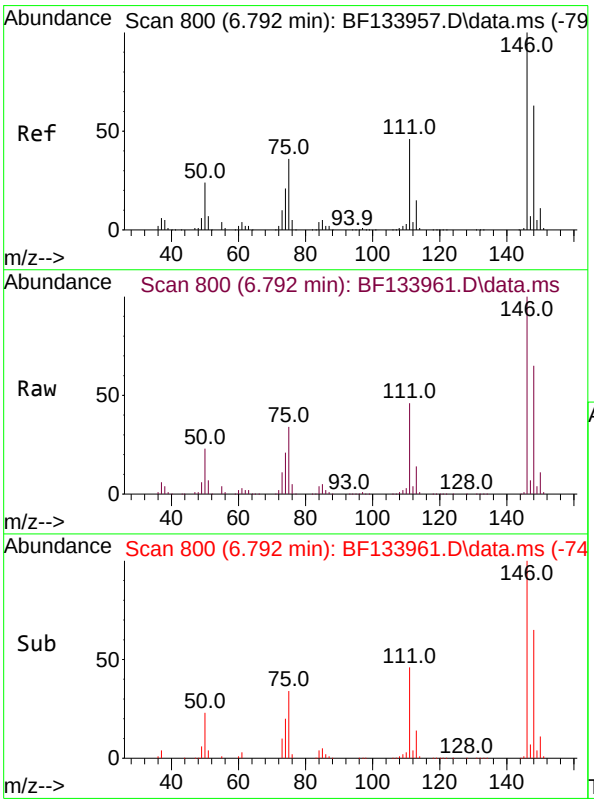
Ion	Ratio	Lower	Upper
93	100		
63	85.8	66.5	106.5
95	32.4	12.9	52.9

Instrument :
BNA_F
ClientSampleId :
ICVBF062623

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

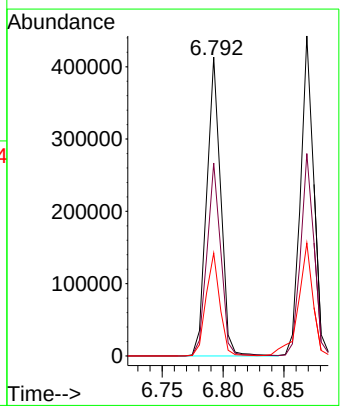


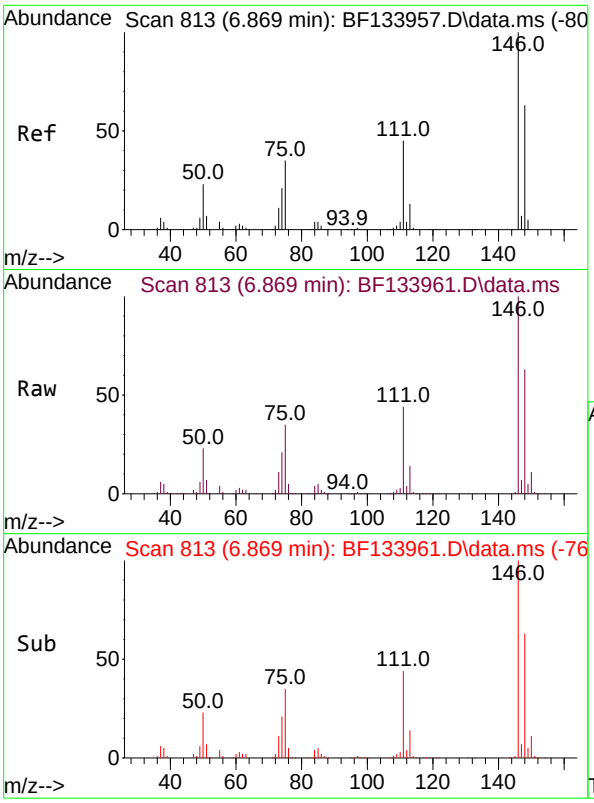


#12
1,3-Dichlorobenzene
Concen: 38.970 ng
RT: 6.792 min Scan# 800
Delta R.T. -0.000 min
Lab File: BF133961.D
Acq: 26 Jun 2023 19:56

Tgt Ion:146 Resp: 330828

Ion	Ratio	Lower	Upper
146	100		
148	64.6	50.5	75.7
75	34.4	29.0	43.6

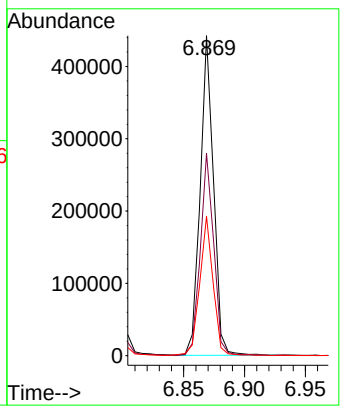




#13
1,4-Dichlorobenzene
Concen: 39.145 ng
RT: 6.869 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF133961.D
Acq: 26 Jun 2023 19:56

Tgt Ion:146 Resp: 33564

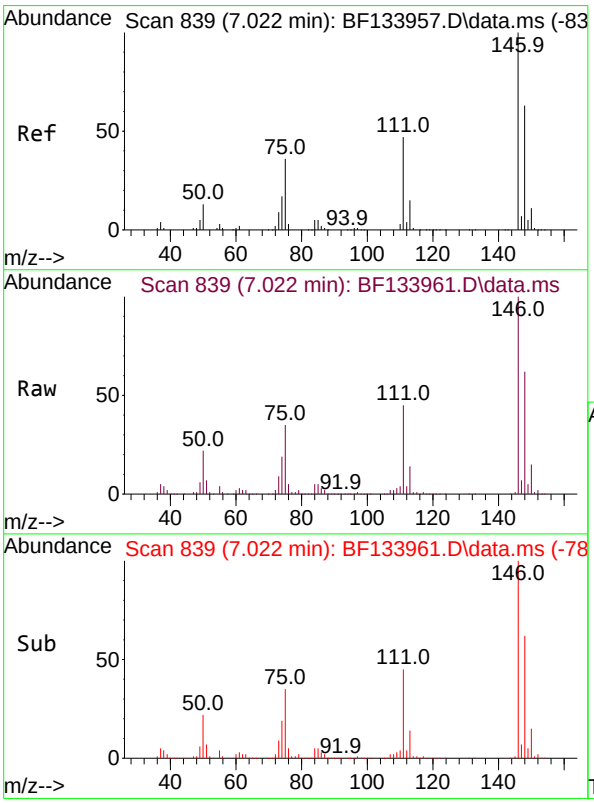
Ion	Ratio	Lower	Upper
146	100		
148	63.2	50.2	75.2
111	43.6	35.8	53.6



Instrument :
BNA_F
ClientSampleId :
ICVBF062623

Manual Integrations
APPROVED

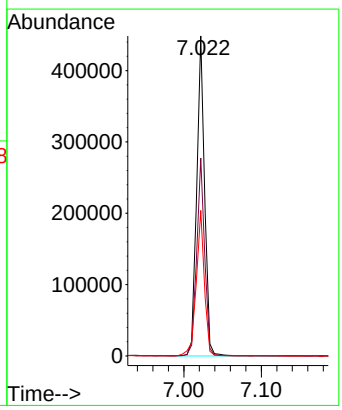
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

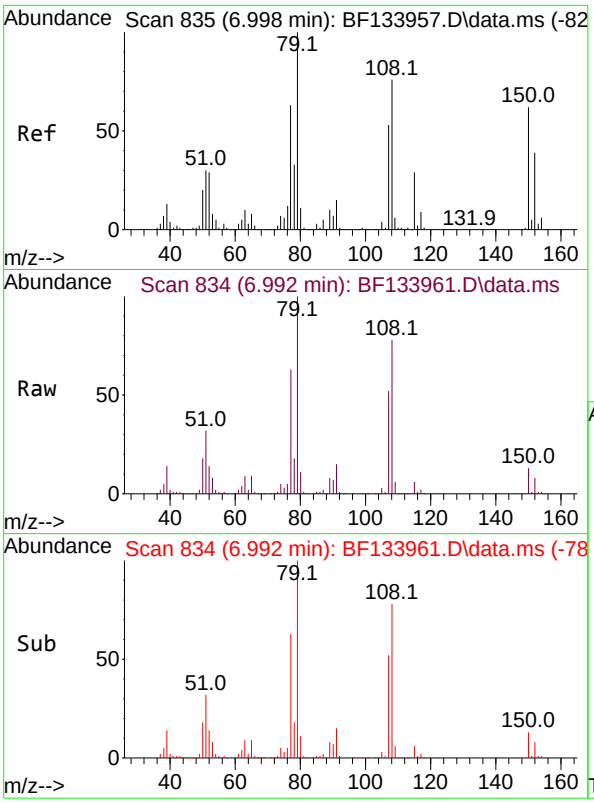


#14
1,2-Dichlorobenzene
Concen: 39.622 ng
RT: 7.022 min Scan# 839
Delta R.T. -0.000 min
Lab File: BF133961.D
Acq: 26 Jun 2023 19:56

Tgt Ion:146 Resp: 318184

Ion	Ratio	Lower	Upper
146	100		
148	61.8	50.6	76.0
111	45.5	38.0	57.0

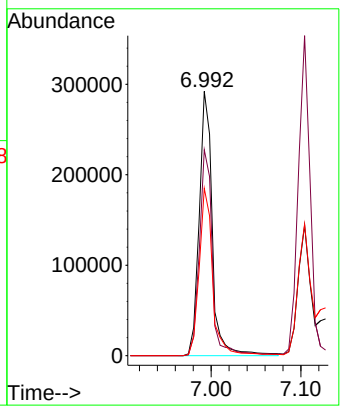




#15
Benzyl Alcohol
Concen: 39.764 ng
RT: 6.992 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF133961.D
Acq: 26 Jun 2023 19:56

Tgt Ion: 79 Resp: 29571

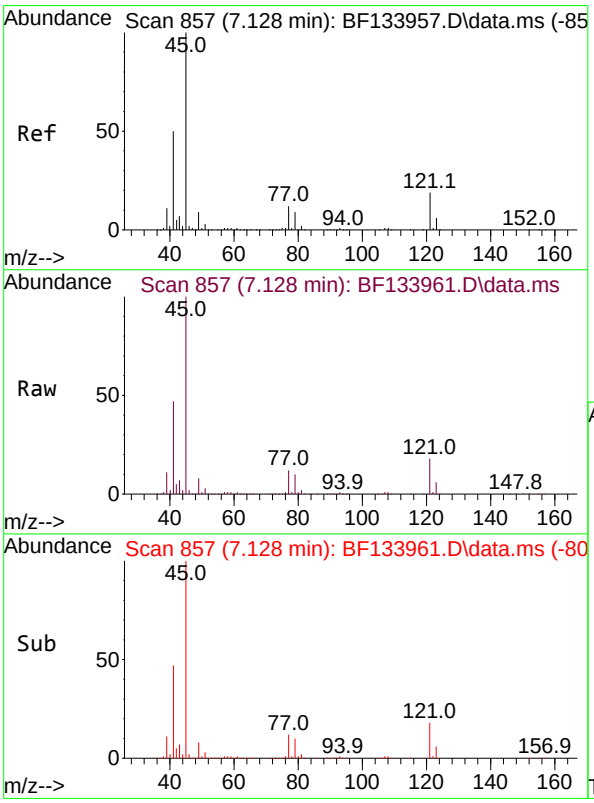
Ion	Ratio	Lower	Upper
79	100		
108	77.9	60.7	91.1
77	63.3	50.6	75.8



Instrument :
BNA_F
ClientSampleId :
ICVBF062623

Manual Integrations
APPROVED

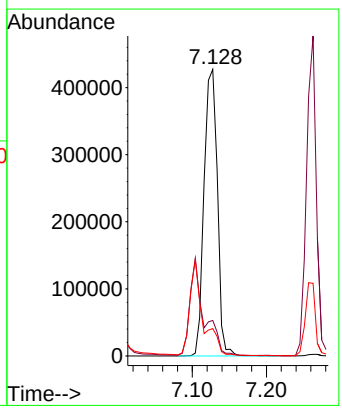
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

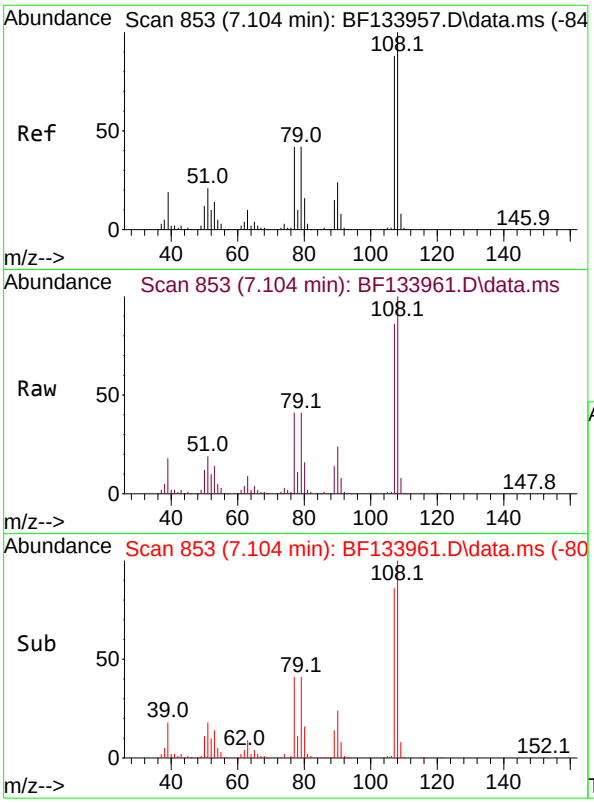


#16
2,2'-oxybis(1-Chloropropane)
Concen: 40.367 ng
RT: 7.128 min Scan# 857
Delta R.T. -0.000 min
Lab File: BF133961.D
Acq: 26 Jun 2023 19:56

Tgt Ion: 45 Resp: 533281

Ion	Ratio	Lower	Upper
45	100		
77	12.4	0.0	32.9
79	9.5	0.0	29.5

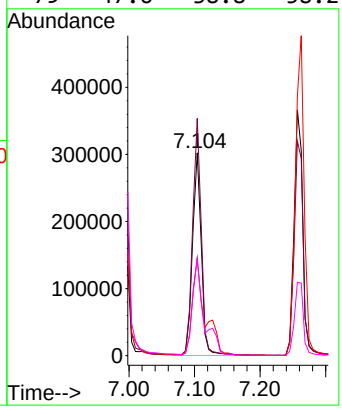




#17
2-Methylphenol
Concen: 40.082 ng
RT: 7.104 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF133961.D
Acq: 26 Jun 2023 19:56

Tgt Ion:107 Resp: 28580

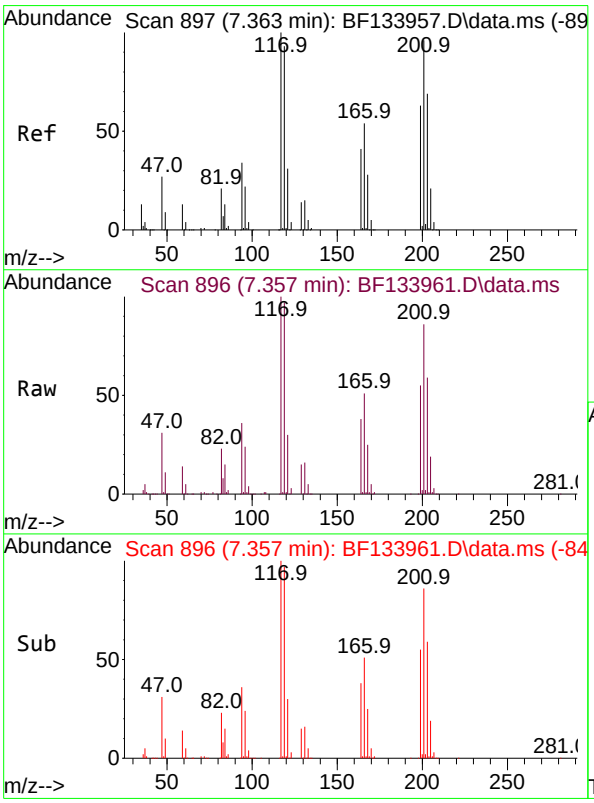
Ion	Ratio	Lower	Upper
107	100		
108	116.9	90.6	136.0
77	48.1	38.3	57.5
79	47.6	38.8	58.2



Instrument :
BNA_F
ClientSampleId :
ICVBF062623

Manual Integrations
APPROVED

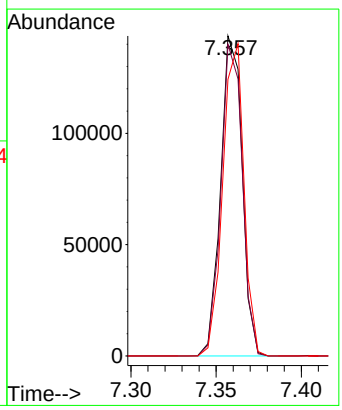
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

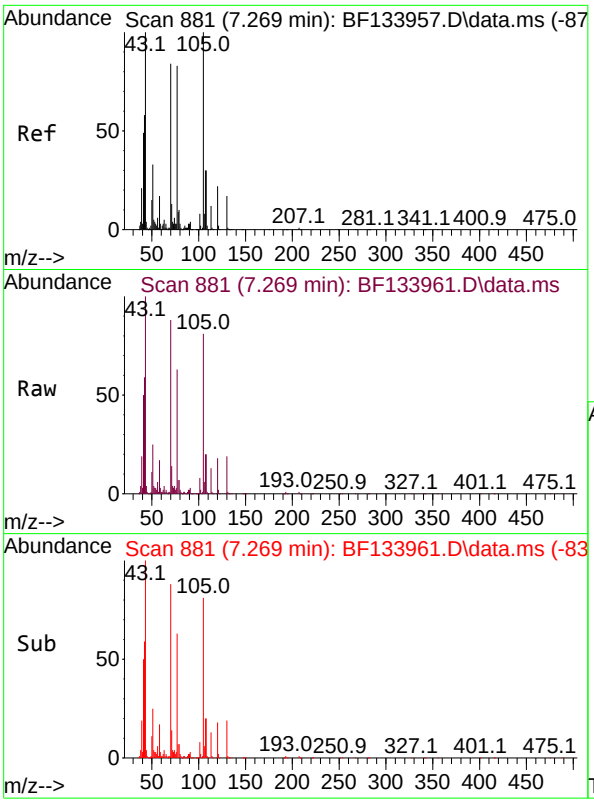


#18
Hexachloroethane
Concen: 39.796 ng
RT: 7.357 min Scan# 896
Delta R.T. -0.006 min
Lab File: BF133961.D
Acq: 26 Jun 2023 19:56

Tgt Ion:117 Resp: 126526

Ion	Ratio	Lower	Upper
117	100		
119	97.3	74.2	111.4
201	86.4	77.2	115.8

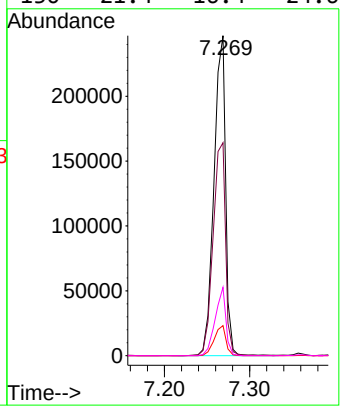




#19
n-Nitroso-di-n-propylamine
Concen: 38.540 ng
RT: 7.269 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF133961.D
Acq: 26 Jun 2023 19:56

Tgt Ion: 70 Resp: 23577

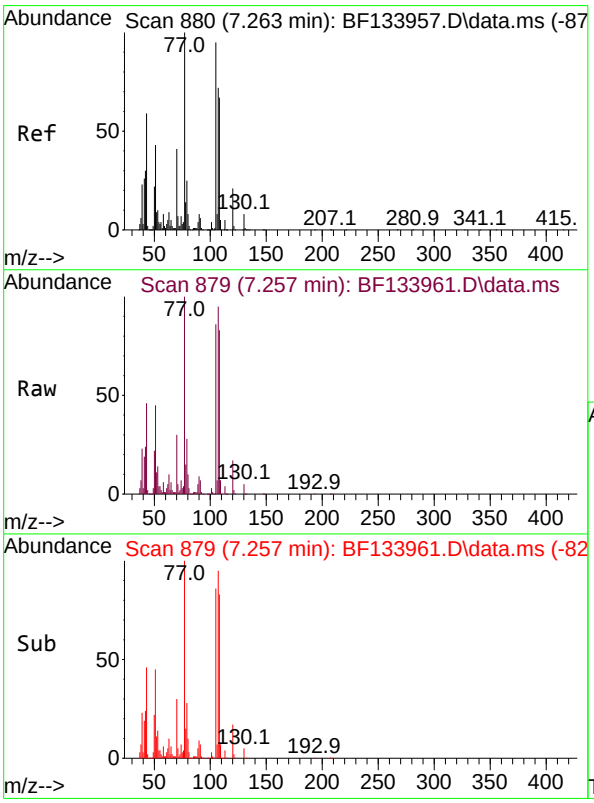
Ion	Ratio	Lower	Upper
70	100		
42	66.6	54.7	82.1
101	9.4	7.7	11.5
130	21.4	16.4	24.6



Instrument :
BNA_F
ClientSampleId :
ICVBF062623

Manual Integrations
APPROVED

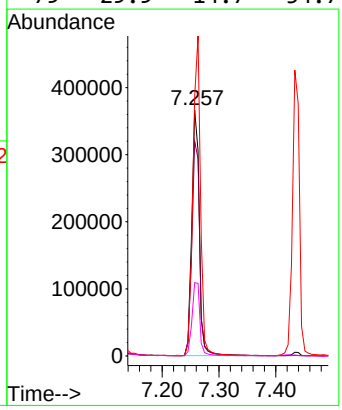
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

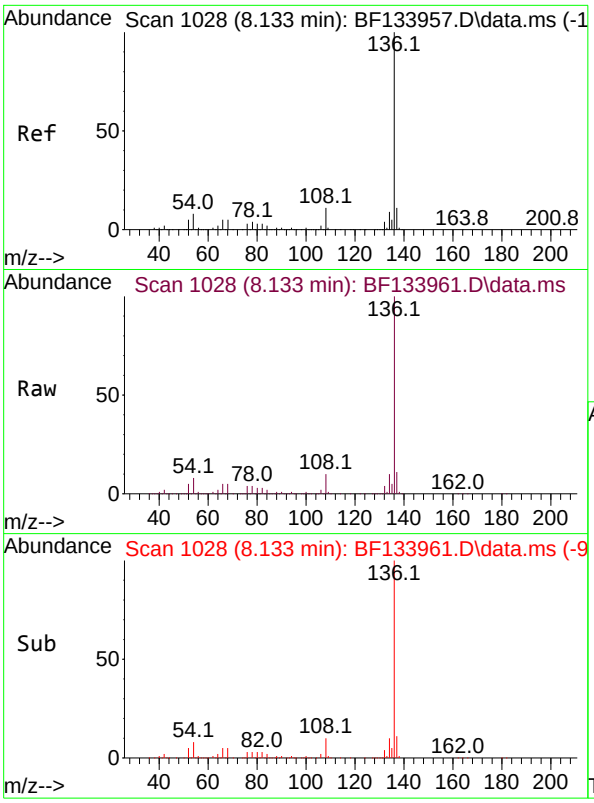


#20
3+4-Methylphenols
Concen: 39.166 ng
RT: 7.257 min Scan# 879
Delta R.T. -0.006 min
Lab File: BF133961.D
Acq: 26 Jun 2023 19:56

Tgt Ion:107 Resp: 338808

Ion	Ratio	Lower	Upper
107	100		
108	87.3	73.2	113.2
77	105.6	118.3	158.3#
79	29.9	14.7	54.7

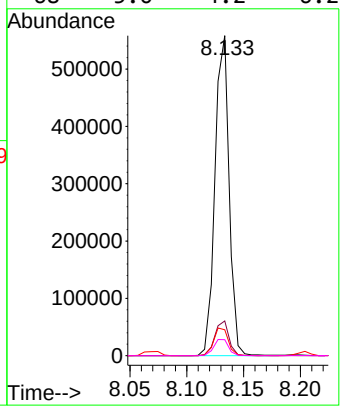




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.133 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BF133961.D
Acq: 26 Jun 2023 19:56

Tgt Ion:136 Resp: 48451(

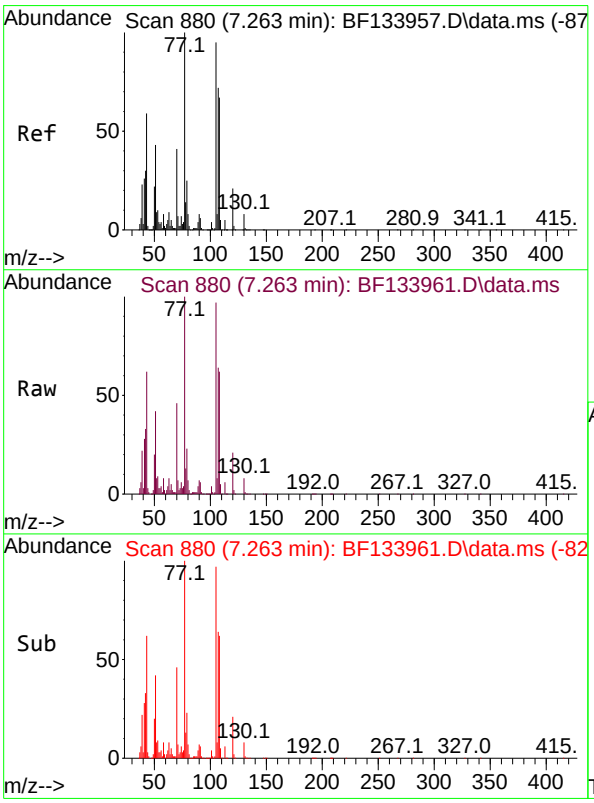
Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.6	12.8
54	8.1	6.5	9.7
68	5.0	4.2	6.2



Instrument :
BNA_F
ClientSampleId :
ICVBF062623

Manual Integrations
APPROVED

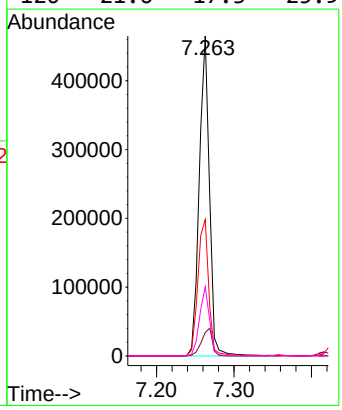
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

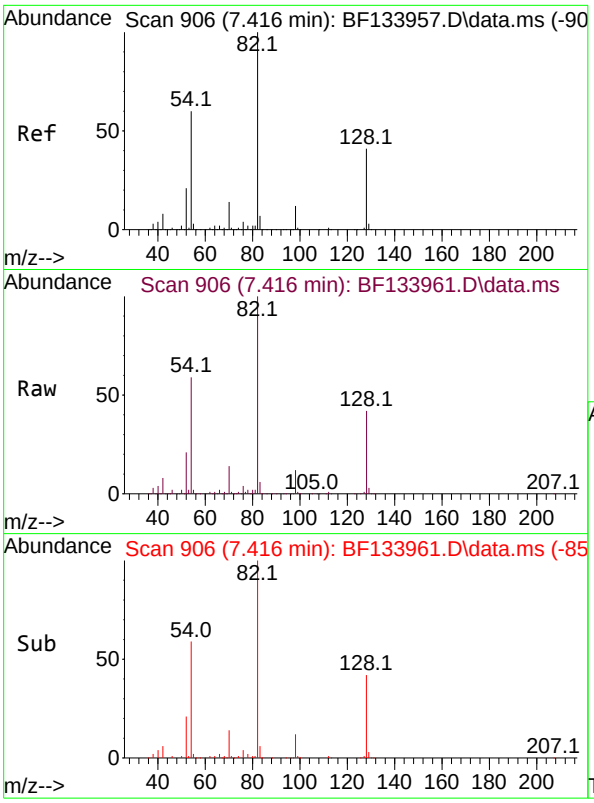


#22
Acetophenone
Concen: 38.487 ng
RT: 7.263 min Scan# 880
Delta R.T. 0.000 min
Lab File: BF133961.D
Acq: 26 Jun 2023 19:56

Tgt Ion:105 Resp: 424093

Ion	Ratio	Lower	Upper
105	100		
71	7.3	5.5	8.3
51	42.6	36.5	54.7
120	21.6	17.3	25.9





#23
Nitrobenzene-d5
Concen: 79.162 ng
RT: 7.416 min Scan# 9
Delta R.T. -0.000 min
Lab File: BF133961.D
Acq: 26 Jun 2023 19:56

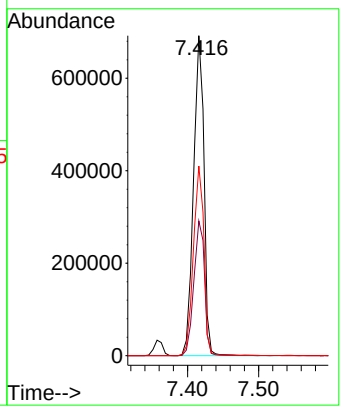
Tgt Ion: 82 Resp: 71152

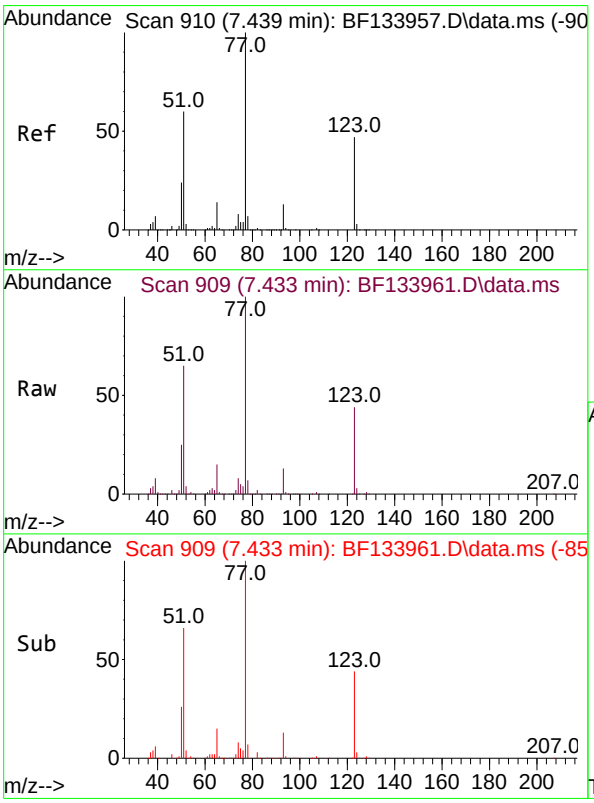
Ion	Ratio	Lower	Upper
82	100		
128	42.1	32.5	48.7
54	59.3	48.2	72.2

Instrument :
BNA_F
ClientSampleId :
ICVBF062623

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

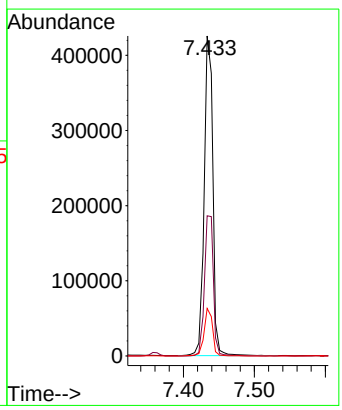


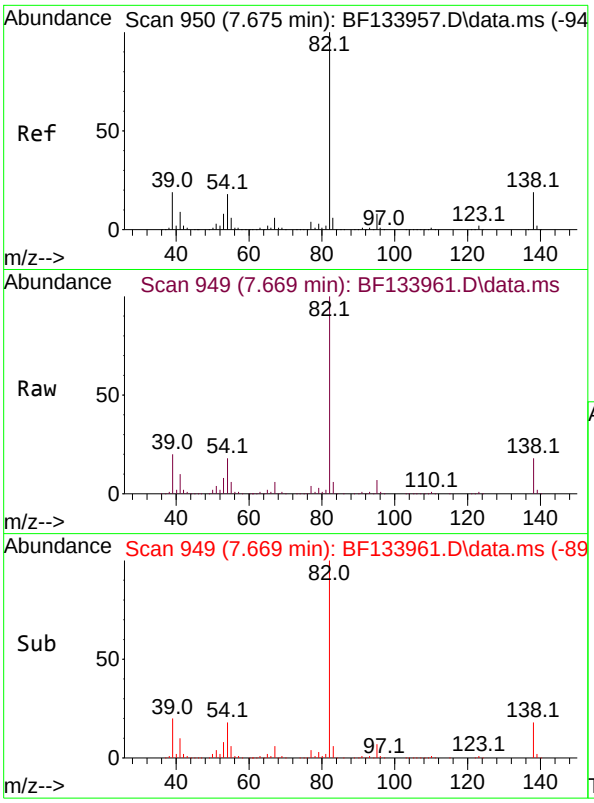


#24
Nitrobenzene
Concen: 39.827 ng
RT: 7.433 min Scan# 909
Delta R.T. -0.006 min
Lab File: BF133961.D
Acq: 26 Jun 2023 19:56

Tgt Ion: 77 Resp: 361735

Ion	Ratio	Lower	Upper
77	100		
123	43.8	37.8	56.6
65	14.9	11.3	16.9

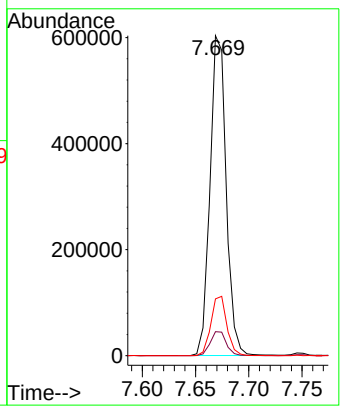




#25
Isophorone
Concen: 39.044 ng
RT: 7.669 min Scan# 94
Delta R.T. -0.006 min
Lab File: BF133961.D
Acq: 26 Jun 2023 19:56

Tgt Ion: 82 Resp: 63780

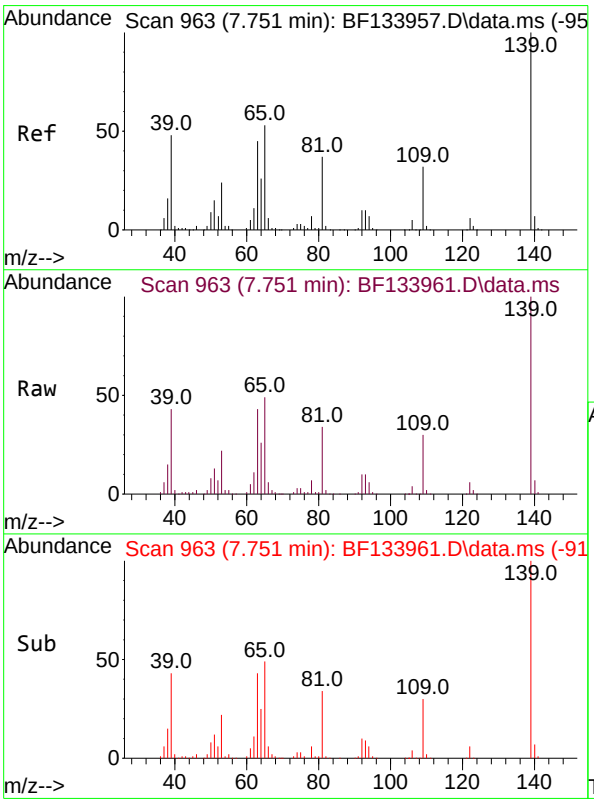
Ion	Ratio	Lower	Upper
82	100		
95	7.5	6.1	9.1
138	17.7	15.2	22.8



Instrument :
BNA_F
ClientSampleId :
ICVBF062623

Manual Integrations
APPROVED

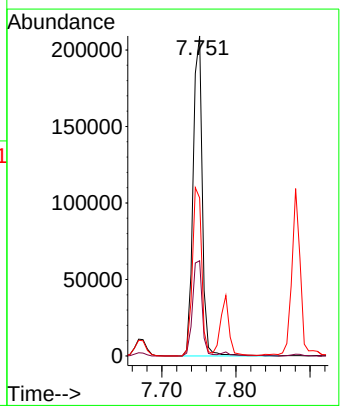
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

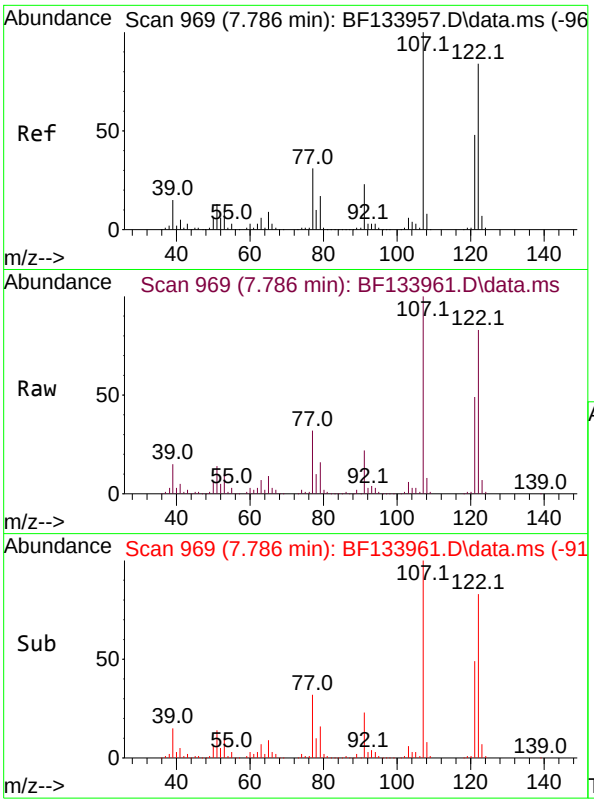


#26
2-Nitrophenol
Concen: 41.408 ng
RT: 7.751 min Scan# 963
Delta R.T. 0.000 min
Lab File: BF133961.D
Acq: 26 Jun 2023 19:56

Tgt Ion:139 Resp: 180421

Ion	Ratio	Lower	Upper
139	100		
109	29.7	25.8	38.8
65	49.4	42.4	63.6

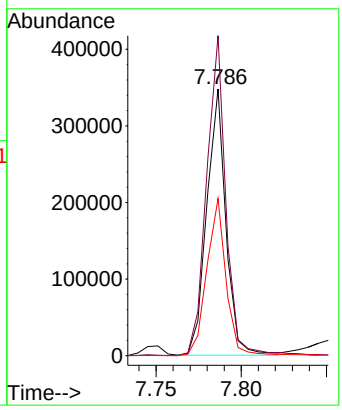




#27
2,4-Dimethylphenol
Concen: 39.557 ng
RT: 7.786 min Scan# 9
Delta R.T. -0.000 min
Lab File: BF133961.D
Acq: 26 Jun 2023 19:56

Tgt Ion:122 Resp: 27282

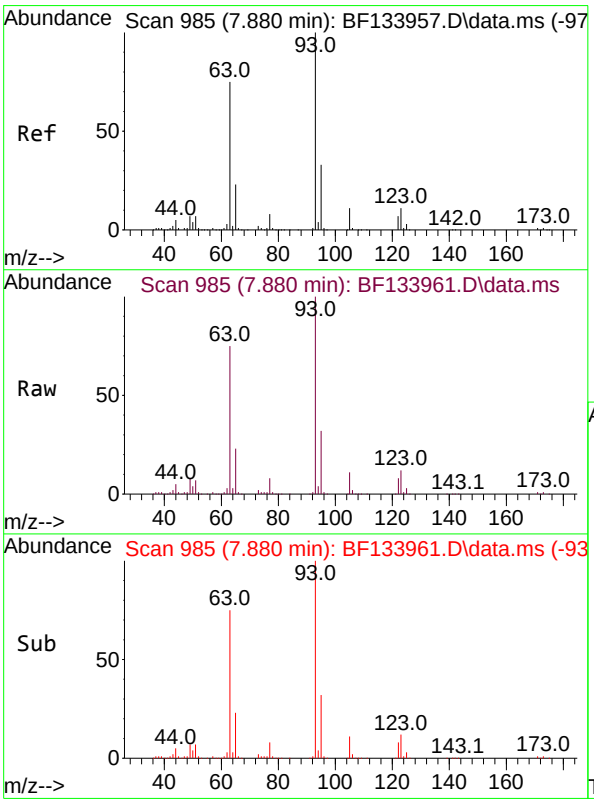
Ion	Ratio	Lower	Upper
122	100		
107	120.0	95.5	143.3
121	58.9	45.5	68.3



Instrument :
BNA_F
ClientSampleId :
ICVBF062623

Manual Integrations APPROVED

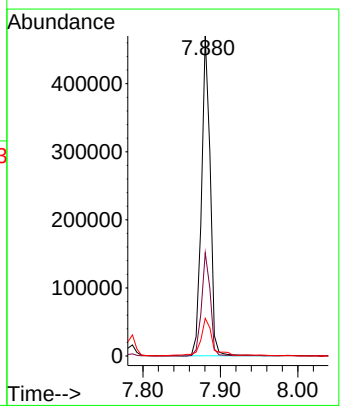
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

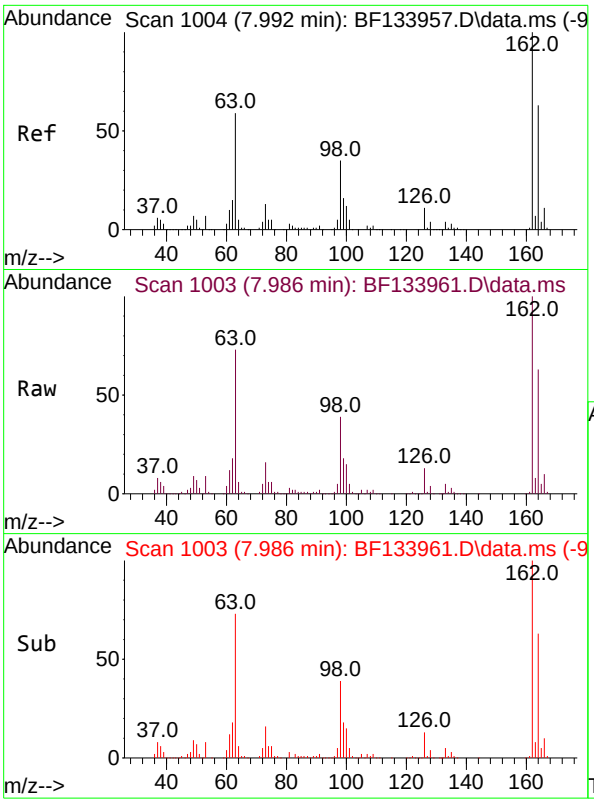


#28
bis(2-Chloroethoxy)methane
Concen: 38.729 ng
RT: 7.880 min Scan# 985
Delta R.T. -0.000 min
Lab File: BF133961.D
Acq: 26 Jun 2023 19:56

Tgt Ion: 93 Resp: 366328

Ion	Ratio	Lower	Upper
93	100		
95	32.2	26.5	39.7
123	11.7	9.1	13.7

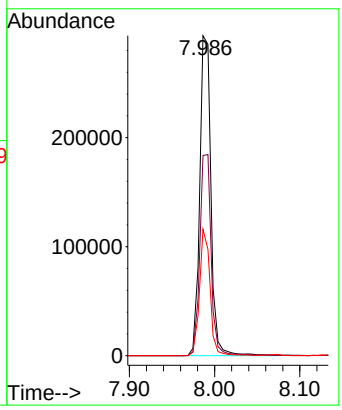




#29
2,4-Dichlorophenol
Concen: 39.298 ng
RT: 7.986 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF133961.D
Acq: 26 Jun 2023 19:56

Tgt Ion:162 Resp: 26876

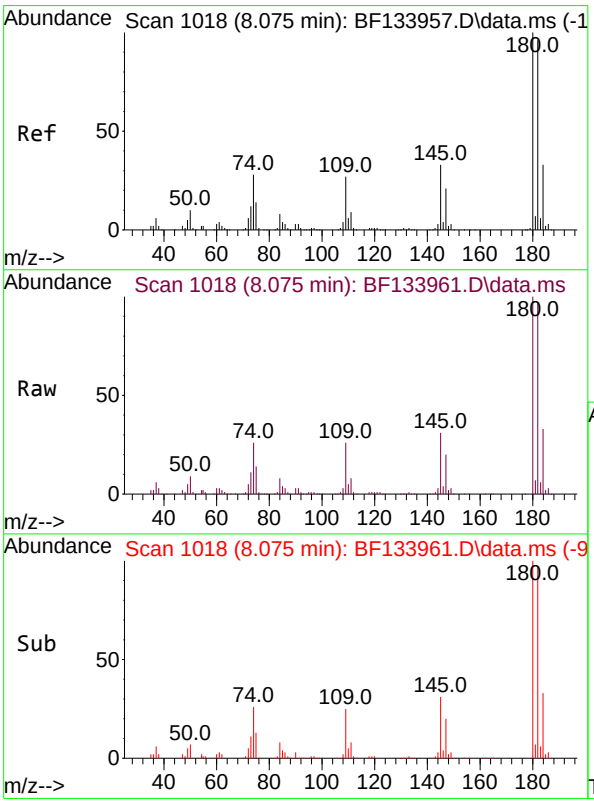
Ion	Ratio	Lower	Upper
162	100		
164	62.5	43.2	83.2
98	39.5	14.9	54.9



Instrument :
BNA_F
ClientSampleId :
ICVBF062623

Manual Integrations
APPROVED

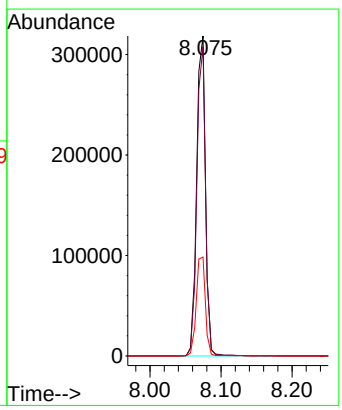
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

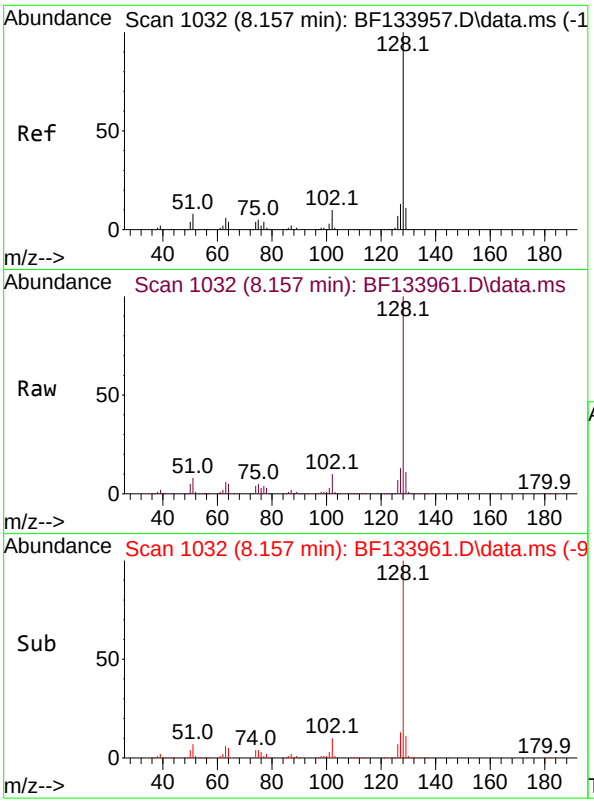


#30
1,2,4-Trichlorobenzene
Concen: 39.130 ng
RT: 8.075 min Scan# 1018
Delta R.T. -0.000 min
Lab File: BF133961.D
Acq: 26 Jun 2023 19:56

Tgt Ion:180 Resp: 276140

Ion	Ratio	Lower	Upper
180	100		
182	96.7	77.1	115.7
145	30.9	26.0	39.0

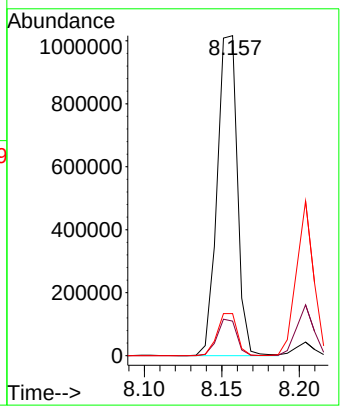




#31
Naphthalene
Concen: 39.390 ng
RT: 8.157 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF133961.D
Acq: 26 Jun 2023 19:56

Tgt Ion:128 Resp: 92186

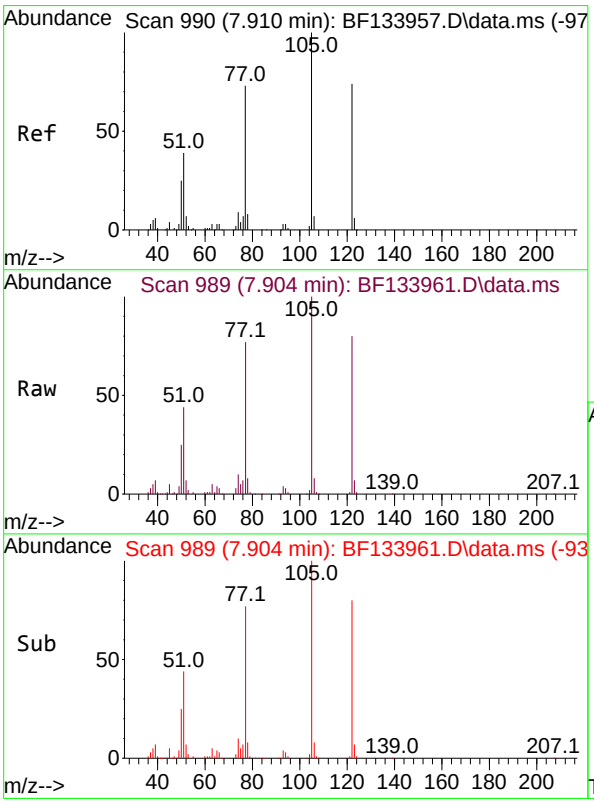
Ion	Ratio	Lower	Upper
128	100		
129	10.8	8.7	13.1
127	13.2	10.6	15.8



Instrument :
BNA_F
ClientSampleId :
ICVBF062623

Manual Integrations
APPROVED

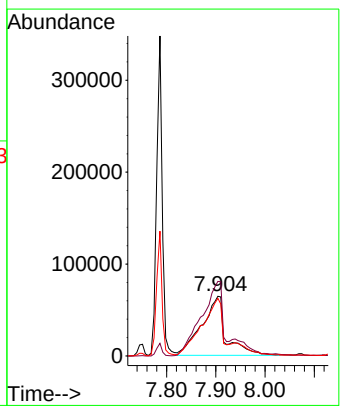
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

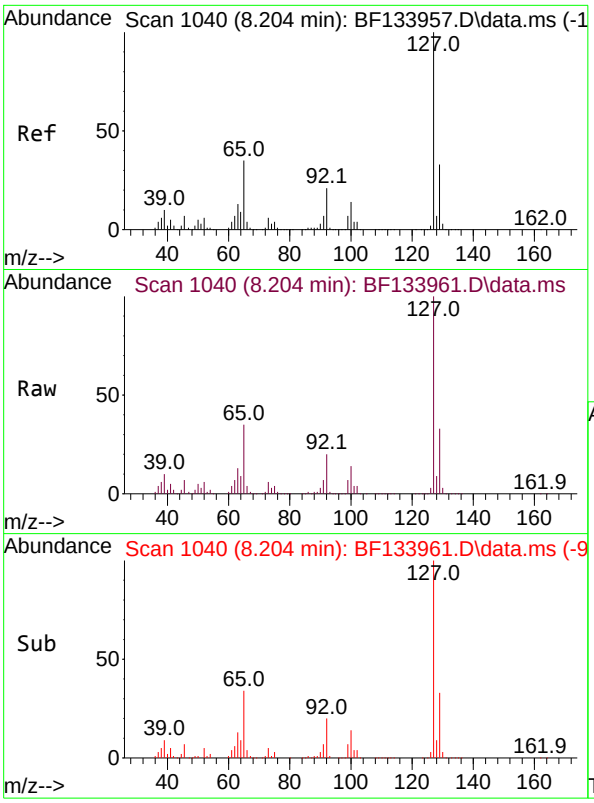


#32
Benzoic acid
Concen: 42.566 ng m
RT: 7.904 min Scan# 989
Delta R.T. -0.006 min
Lab File: BF133961.D
Acq: 26 Jun 2023 19:56

Tgt Ion:122 Resp: 219990

Ion	Ratio	Lower	Upper
122	100		
105	125.0	109.7	149.7
77	96.6	76.0	116.0

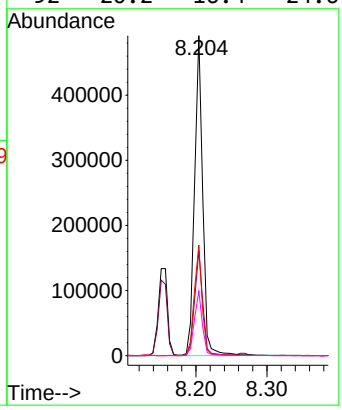




#33
4-Chloroaniline
Concen: 39.388 ng
RT: 8.204 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF133961.D
Acq: 26 Jun 2023 19:56

Tgt Ion:127 Resp: 39431

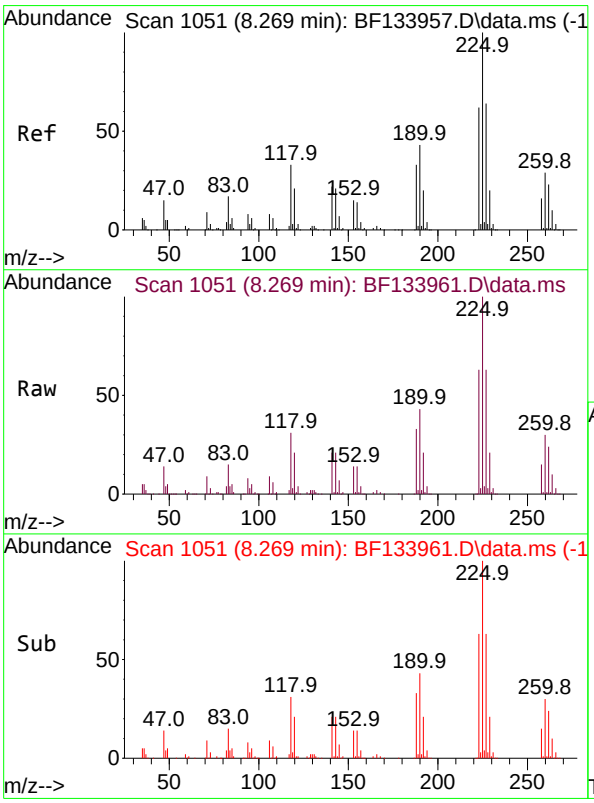
Ion	Ratio	Lower	Upper
127	100		
129	32.9	26.4	39.6
65	34.6	27.8	41.8
92	20.2	16.4	24.6



Instrument :
BNA_F
ClientSampleId :
ICVBF062623

Manual Integrations APPROVED

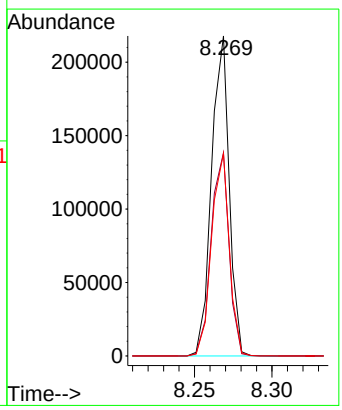
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

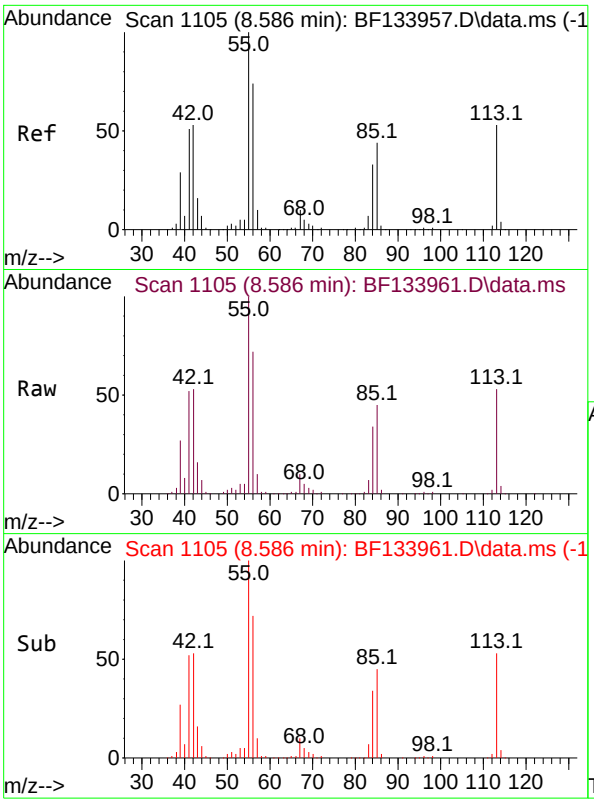


#34
Hexachlorobutadiene
Concen: 38.700 ng
RT: 8.269 min Scan# 1051
Delta R.T. 0.000 min
Lab File: BF133961.D
Acq: 26 Jun 2023 19:56

Tgt Ion:225 Resp: 172278

Ion	Ratio	Lower	Upper
225	100		
223	63.5	49.8	74.8
227	63.3	51.0	76.4





#35
Caprolactam
Concen: 40.472 ng
RT: 8.586 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF133961.D
Acq: 26 Jun 2023 19:56

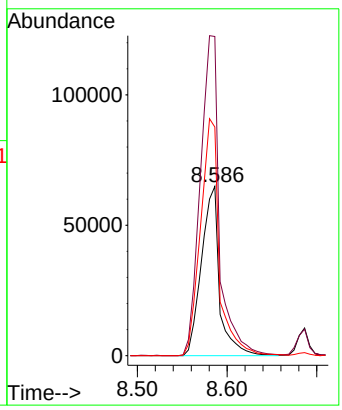
Tgt Ion:113 Resp: 9113

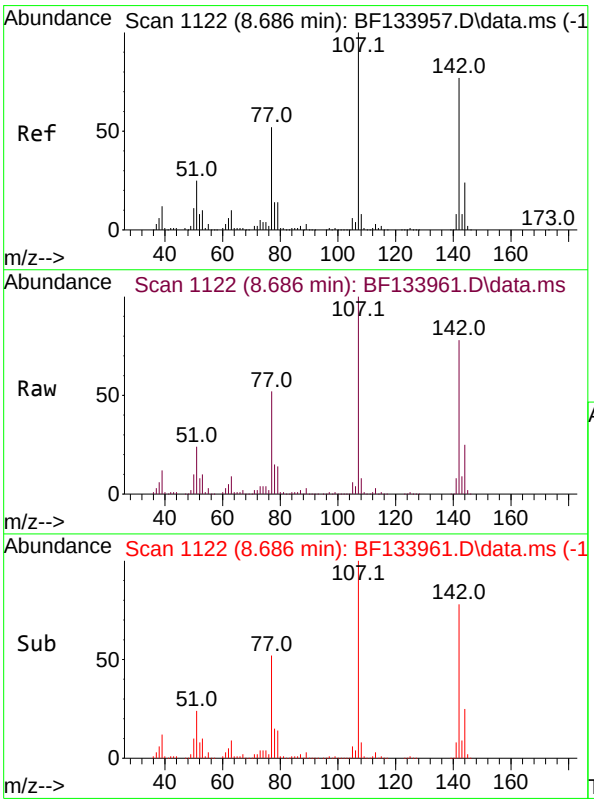
Ion	Ratio	Lower	Upper
113	100		
55	188.6	170.2	210.2
56	135.1	121.4	161.4

Instrument :
BNA_F
ClientSampleId :
ICVBF062623

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

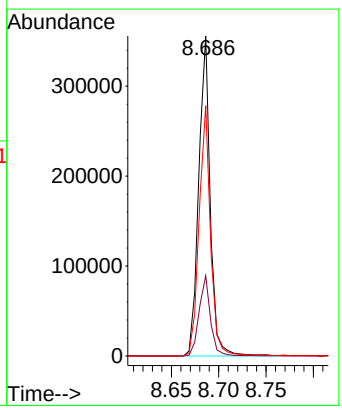


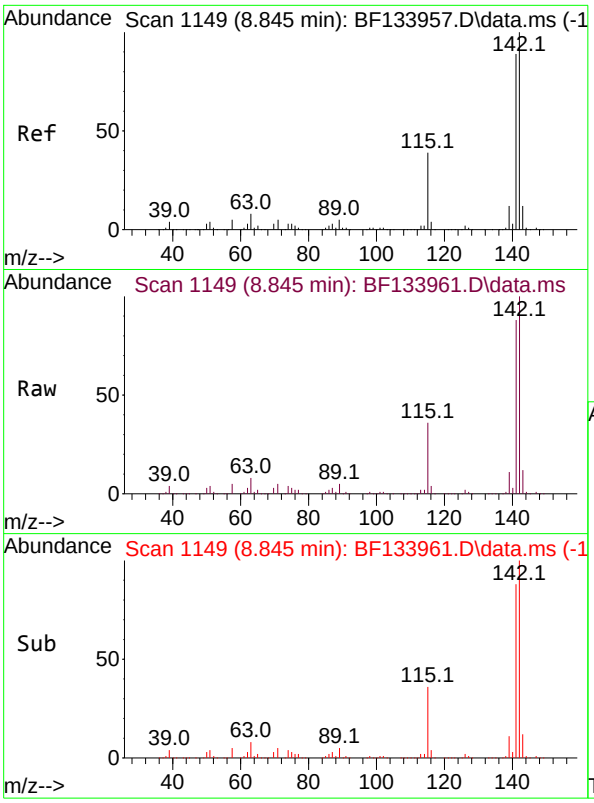


#36
4-Chloro-3-methylphenol
Concen: 39.364 ng
RT: 8.686 min Scan# 1122
Delta R.T. 0.000 min
Lab File: BF133961.D
Acq: 26 Jun 2023 19:56

Tgt Ion:107 Resp: 302439

Ion	Ratio	Lower	Upper
107	100		
144	25.0	19.6	29.4
142	78.2	61.4	92.2

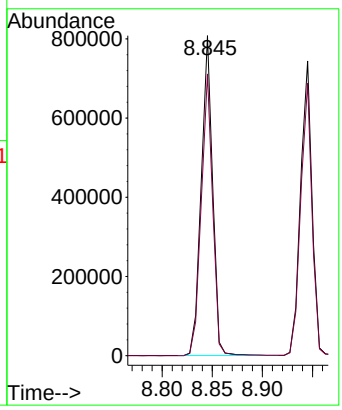




#37
2-Methylnaphthalene
Concen: 38.784 ng
RT: 8.845 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF133961.D
Acq: 26 Jun 2023 19:56

Tgt Ion:142 Resp: 64187

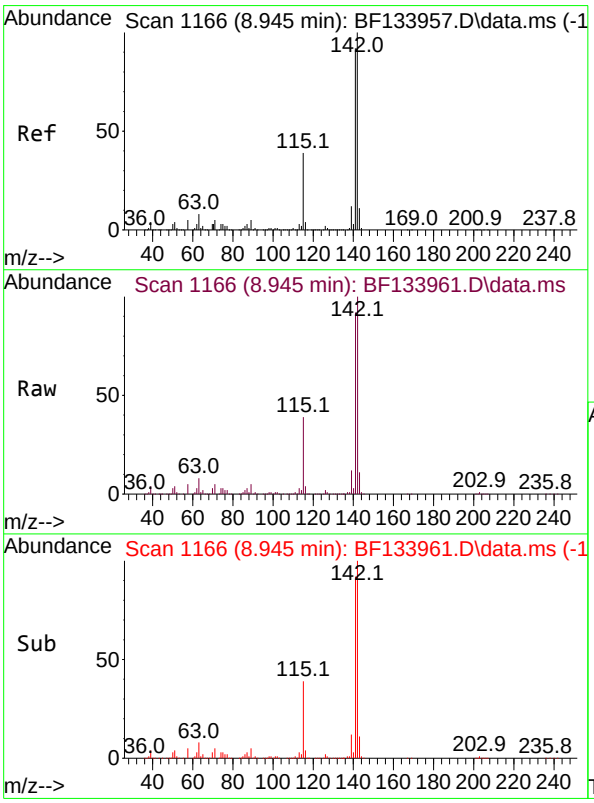
Ion	Ratio	Lower	Upper
142	100		
141	88.0	71.0	106.4



Instrument :
BNA_F
ClientSampleId :
ICVBF062623

Manual Integrations
APPROVED

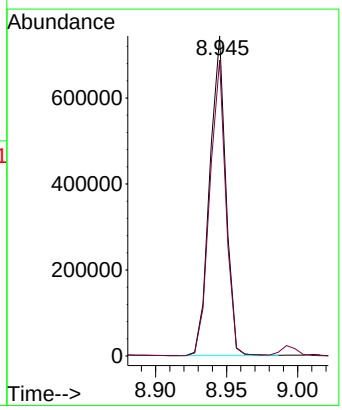
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

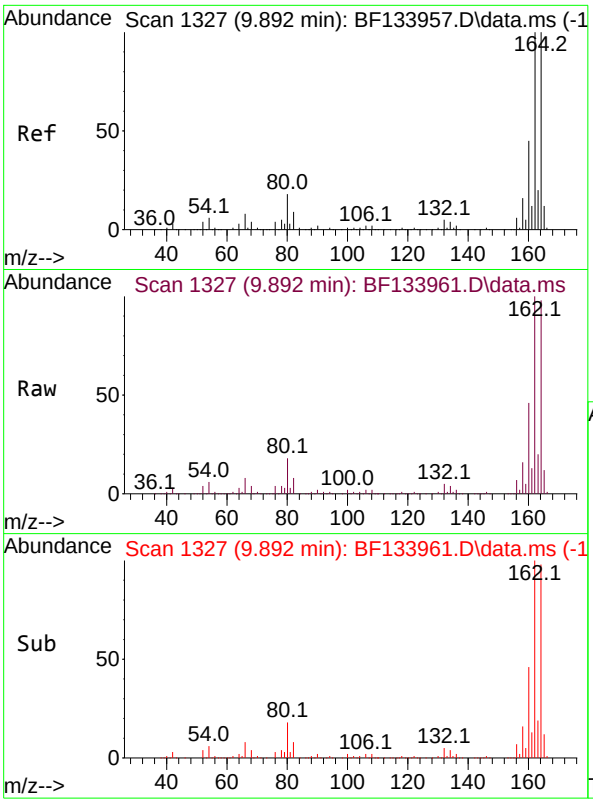


#38
1-Methylnaphthalene
Concen: 38.344 ng
RT: 8.945 min Scan# 1166
Delta R.T. -0.000 min
Lab File: BF133961.D
Acq: 26 Jun 2023 19:56

Tgt Ion:142 Resp: 589945

Ion	Ratio	Lower	Upper
142	100		
141	92.5	73.5	110.3

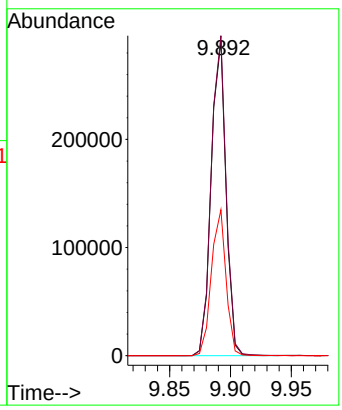




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.892 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF133961.D
Acq: 26 Jun 2023 19:56

Tgt Ion:164 Resp: 24530

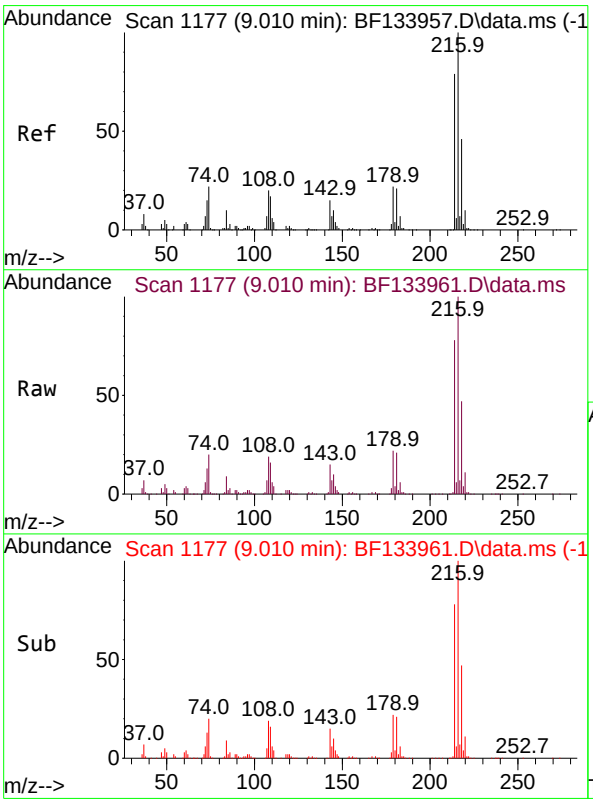
Ion	Ratio	Lower	Upper
164	100		
162	101.6	80.0	120.0
160	46.4	35.9	53.9



Instrument :
BNA_F
ClientSampleId :
ICVBF062623

Manual Integrations
APPROVED

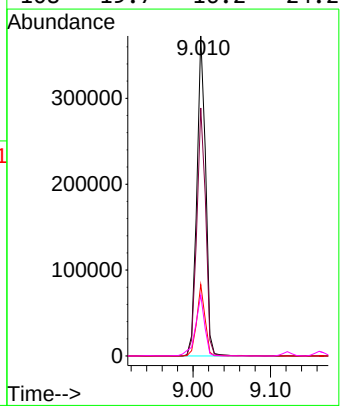
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

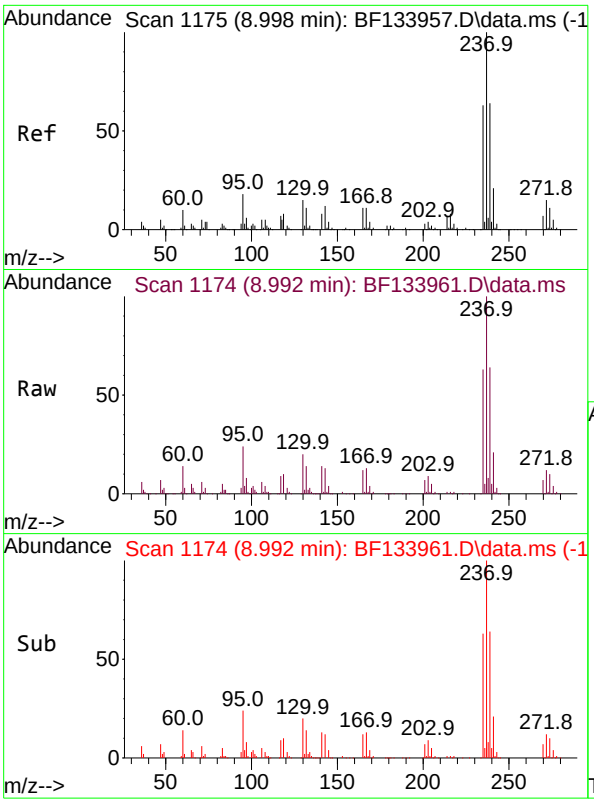


#40
1,2,4,5-Tetrachlorobenzene
Concen: 40.405 ng
RT: 9.010 min Scan# 1177
Delta R.T. -0.000 min
Lab File: BF133961.D
Acq: 26 Jun 2023 19:56

Tgt Ion:216 Resp: 293647

Ion	Ratio	Lower	Upper
216	100		
214	78.3	64.1	96.1
179	20.9	17.3	25.9
108	19.7	16.2	24.2

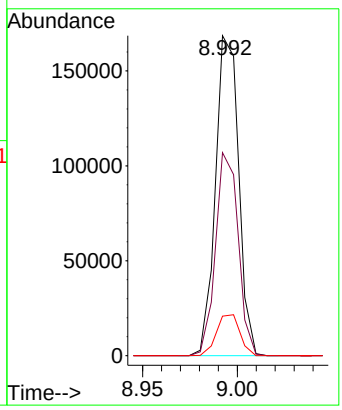




#41
Hexachlorocyclopentadiene
Concen: 41.576 ng
RT: 8.992 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF133961.D
Acq: 26 Jun 2023 19:56

Tgt Ion:237 Resp: 14334

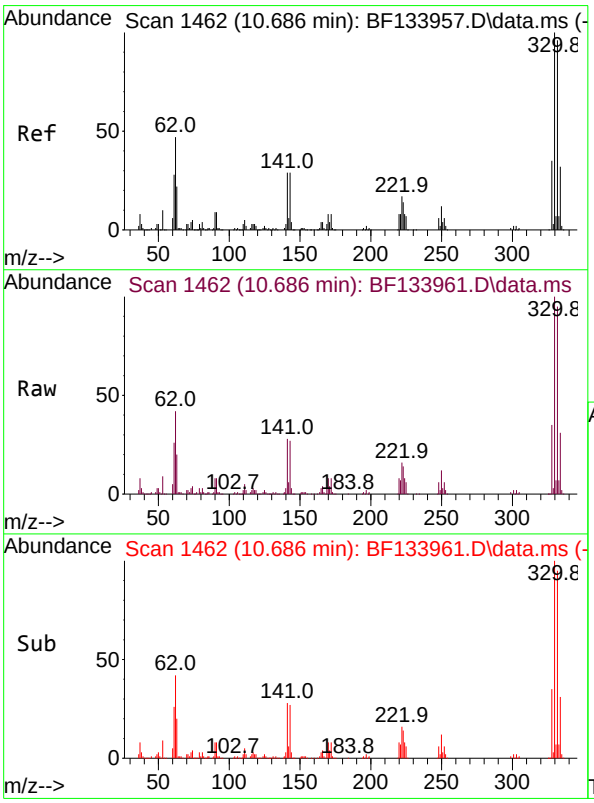
Ion	Ratio	Lower	Upper
237	100		
235	63.5	42.8	82.8
272	12.3	0.0	34.6



Instrument :
BNA_F
ClientSampleId :
ICVBF062623

Manual Integrations
APPROVED

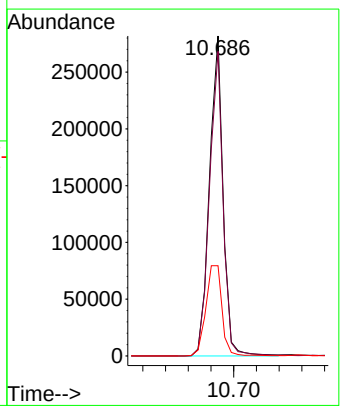
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

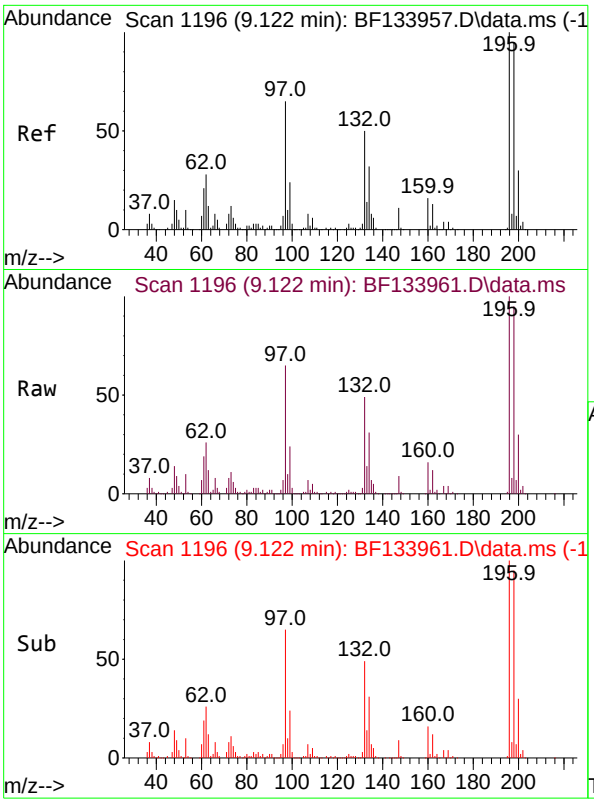


#42
2,4,6-Tribromophenol
Concen: 76.075 ng
RT: 10.686 min Scan# 1462
Delta R.T. -0.000 min
Lab File: BF133961.D
Acq: 26 Jun 2023 19:56

Tgt Ion:330 Resp: 233983

Ion	Ratio	Lower	Upper
330	100		
332	95.5	77.0	115.6
141	33.5	26.3	39.5

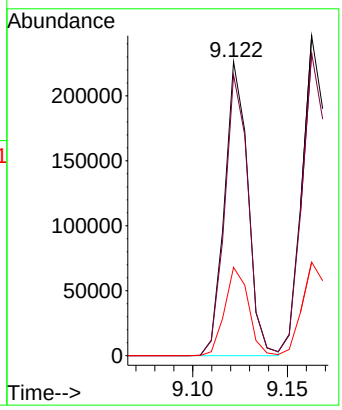




#43
2,4,6-Trichlorophenol
Concen: 39.181 ng
RT: 9.122 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF133961.D
Acq: 26 Jun 2023 19:56

Tgt Ion:196 Resp: 19384

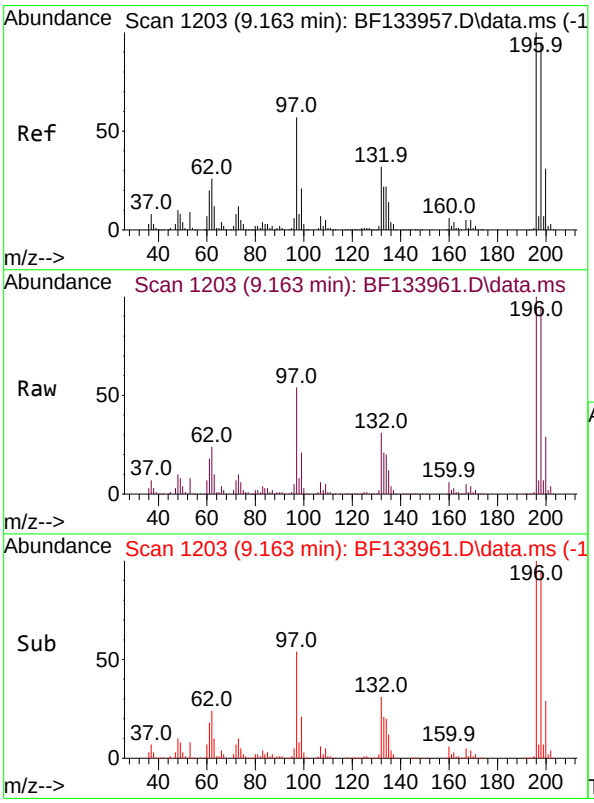
Ion	Ratio	Lower	Upper
196	100		
198	95.5	75.6	113.4
200	30.0	24.4	36.6



Instrument :
BNA_F
ClientSampleId :
ICVBF062623

Manual Integrations
APPROVED

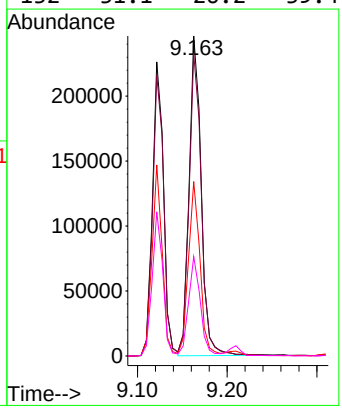
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

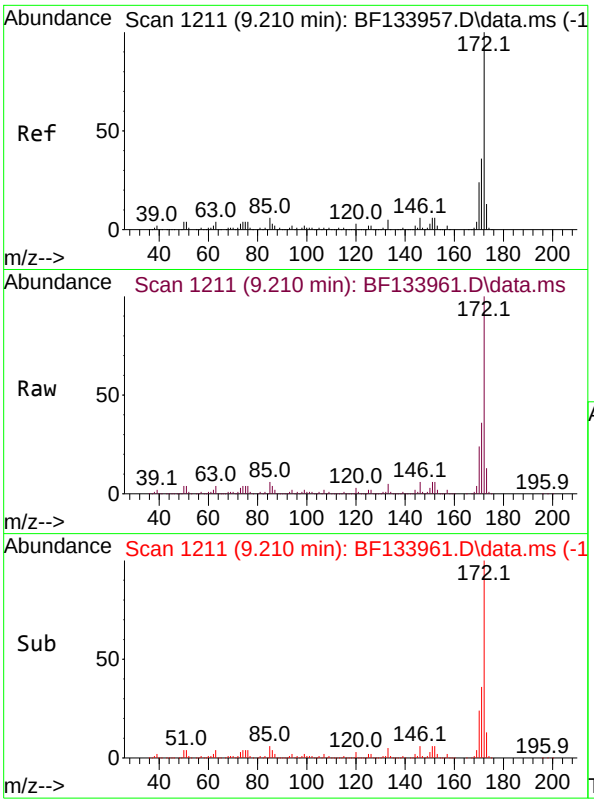


#44
2,4,5-Trichlorophenol
Concen: 39.741 ng
RT: 9.163 min Scan# 1203
Delta R.T. -0.000 min
Lab File: BF133961.D
Acq: 26 Jun 2023 19:56

Tgt Ion:196 Resp: 231276

Ion	Ratio	Lower	Upper
196	100		
198	94.6	75.7	113.5
97	54.5	45.8	68.6
132	31.1	26.2	39.4

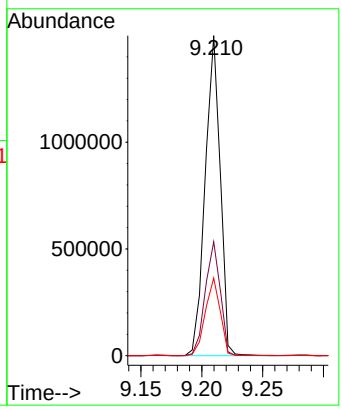




#45
2-Fluorobiphenyl
Concen: 76.435 ng
RT: 9.210 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF133961.D
Acq: 26 Jun 2023 19:56

Tgt Ion:172 Resp: 128965

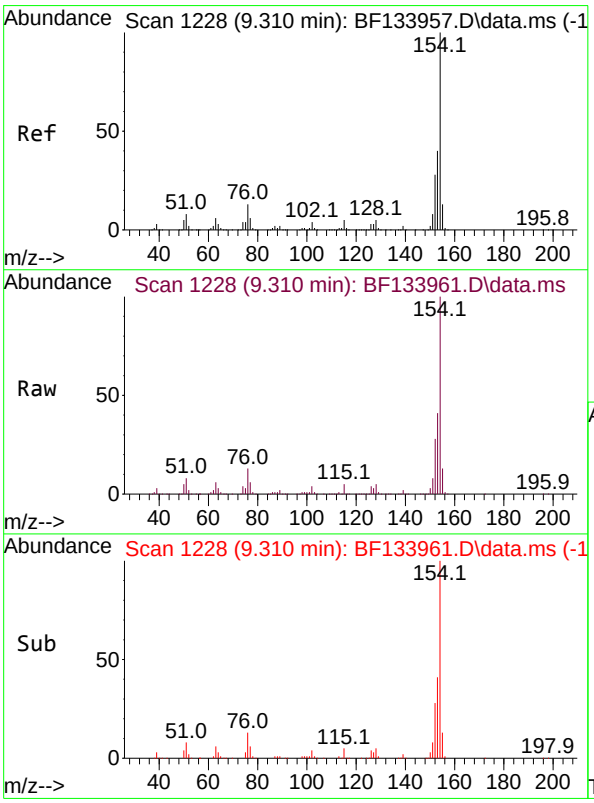
Ion	Ratio	Lower	Upper
172	100		
171	35.6	28.6	43.0
170	24.2	19.4	29.0



Instrument :
BNA_F
ClientSampleId :
ICVBF062623

Manual Integrations
APPROVED

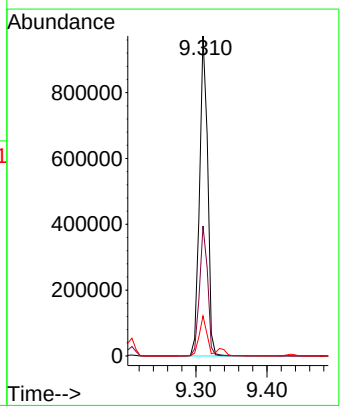
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

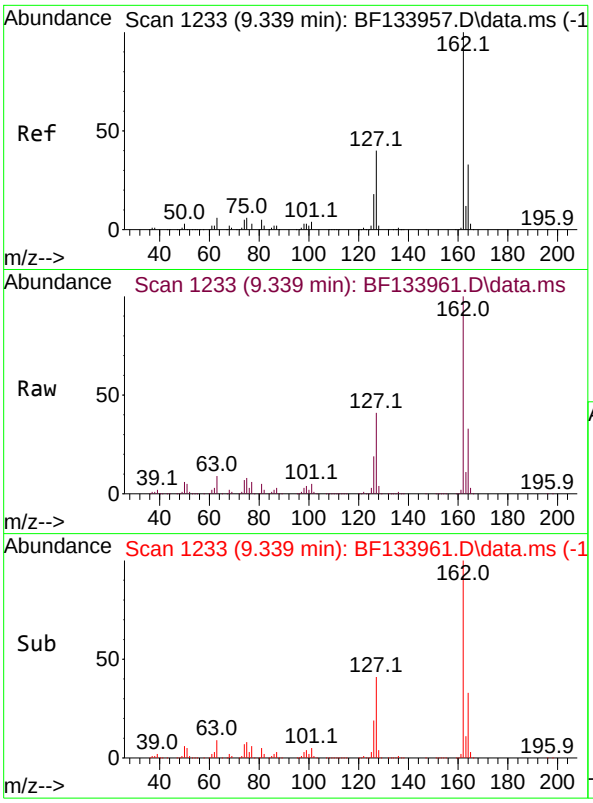


#46
1,1'-Biphenyl
Concen: 39.480 ng
RT: 9.310 min Scan# 1228
Delta R.T. -0.000 min
Lab File: BF133961.D
Acq: 26 Jun 2023 19:56

Tgt Ion:154 Resp: 776886

Ion	Ratio	Lower	Upper
154	100		
153	40.6	19.8	59.8
76	12.5	0.0	32.9

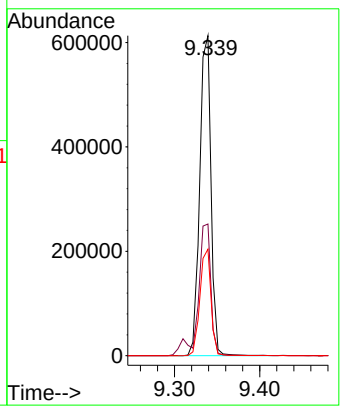




#47
2-Chloronaphthalene
Concen: 39.183 ng
RT: 9.339 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF133961.D
Acq: 26 Jun 2023 19:56

Tgt Ion:162 Resp: 56413

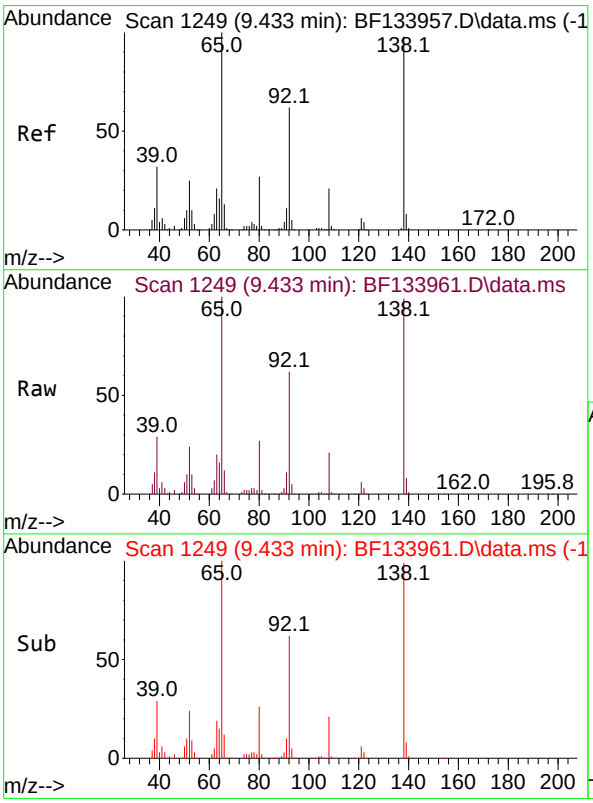
Ion	Ratio	Lower	Upper
162	100		
127	41.1	32.9	49.3
164	33.3	26.1	39.1



Instrument :
BNA_F
ClientSampleId :
ICVBF062623

Manual Integrations
APPROVED

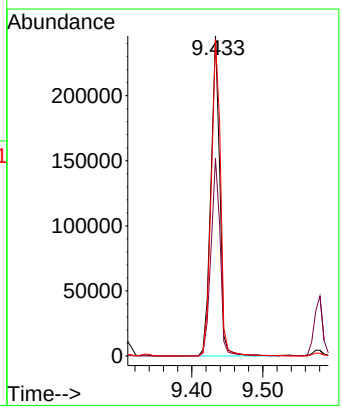
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

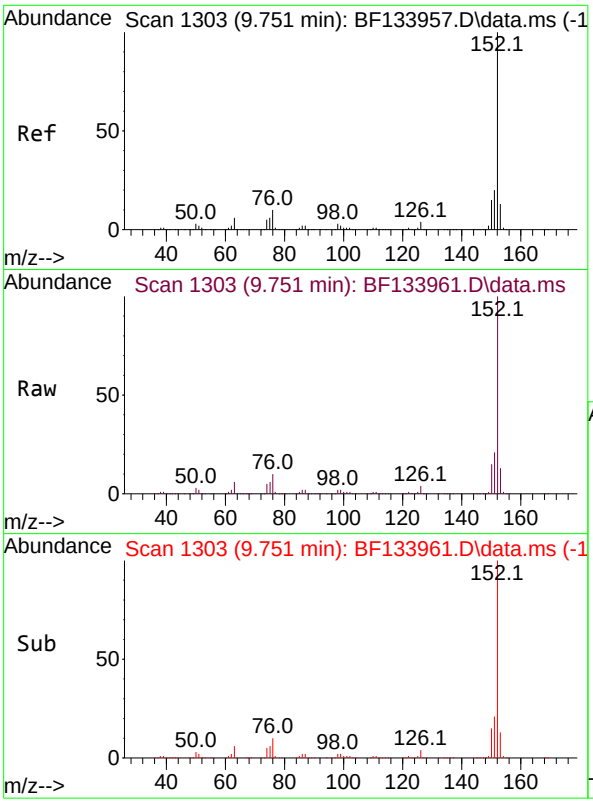


#48
2-Nitroaniline
Concen: 41.107 ng
RT: 9.433 min Scan# 1249
Delta R.T. 0.000 min
Lab File: BF133961.D
Acq: 26 Jun 2023 19:56

Tgt Ion: 65 Resp: 215694

Ion	Ratio	Lower	Upper
65	100		
92	61.9	49.5	74.3
138	99.0	78.0	117.0

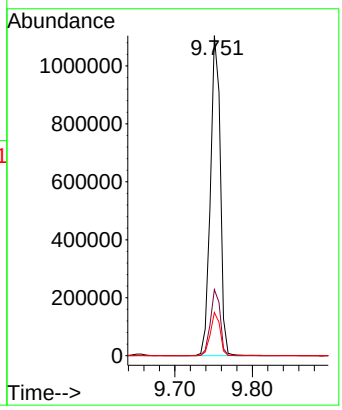




#49
Acenaphthylene
Concen: 39.721 ng
RT: 9.751 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF133961.D
Acq: 26 Jun 2023 19:56

Tgt Ion:152 Resp: 97692

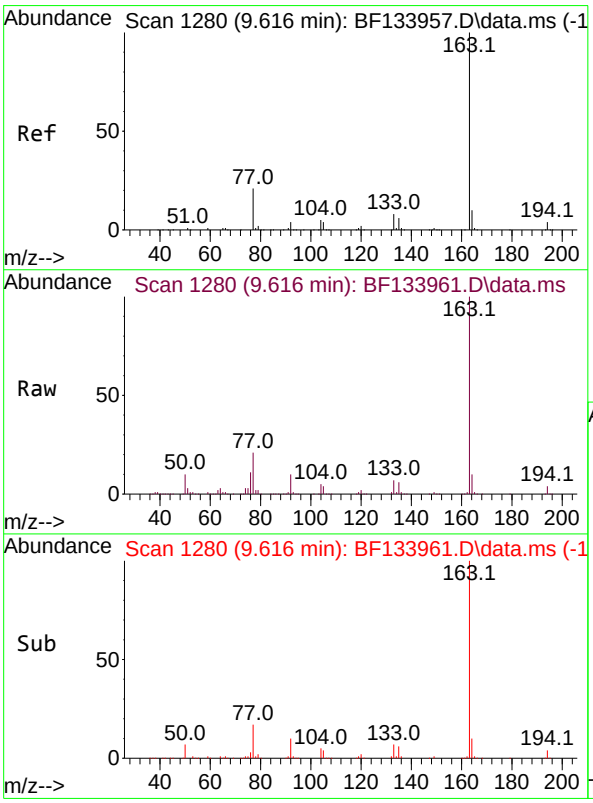
Ion	Ratio	Lower	Upper
152	100		
151	20.7	16.2	24.2
153	13.5	10.8	16.2



Instrument :
BNA_F
ClientSampleId :
ICVBF062623

Manual Integrations
APPROVED

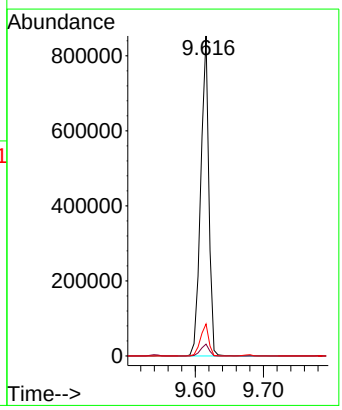
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

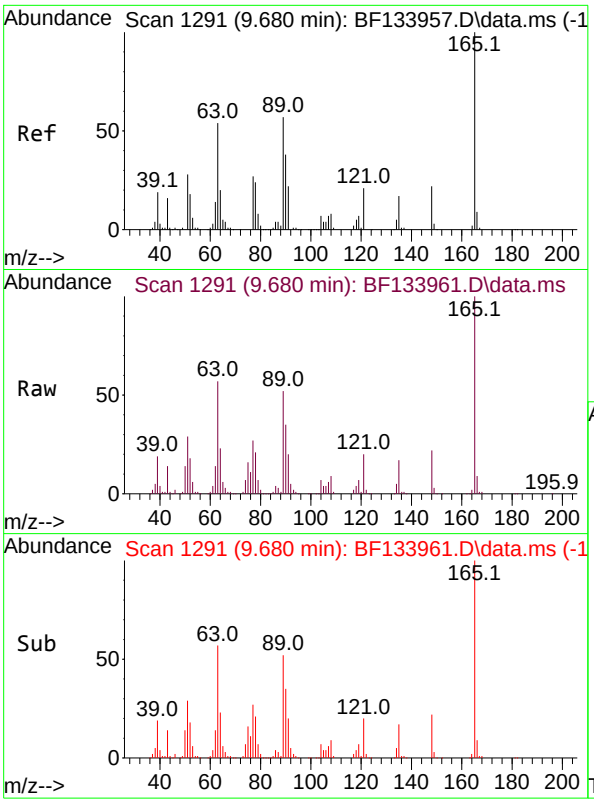


#50
Dimethylphthalate
Concen: 39.549 ng
RT: 9.616 min Scan# 1280
Delta R.T. -0.000 min
Lab File: BF133961.D
Acq: 26 Jun 2023 19:56

Tgt Ion:163 Resp: 704253

Ion	Ratio	Lower	Upper
163	100		
194	3.7	3.0	4.6
164	10.0	8.2	12.2





#51
2,6-Dinitrotoluene
Concen: 40.971 ng
RT: 9.680 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF133961.D
Acq: 26 Jun 2023 19:56

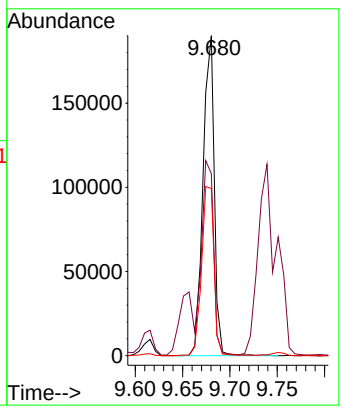
Tgt Ion:165 Resp: 15713

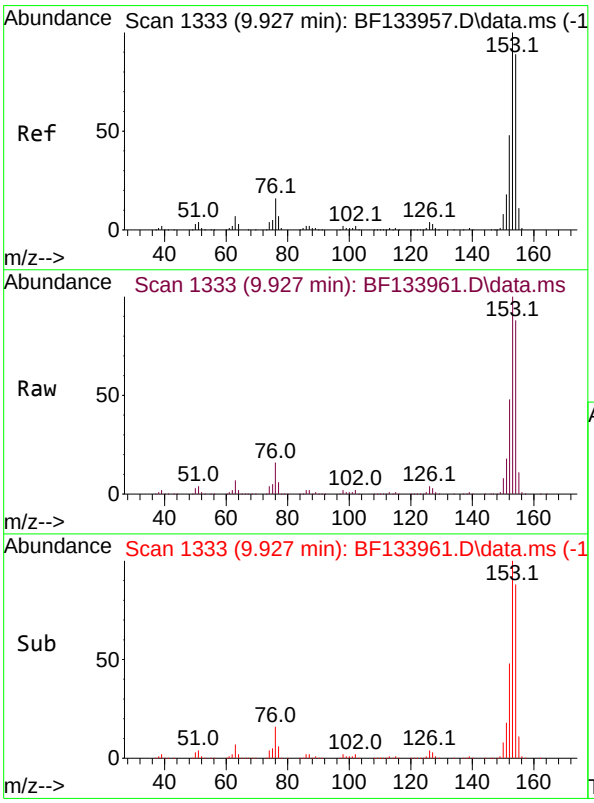
Ion	Ratio	Lower	Upper
165	100		
63	56.9	48.5	72.7
89	52.2	45.5	68.3

Instrument :
BNA_F
ClientSampleId :
ICVBF062623

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

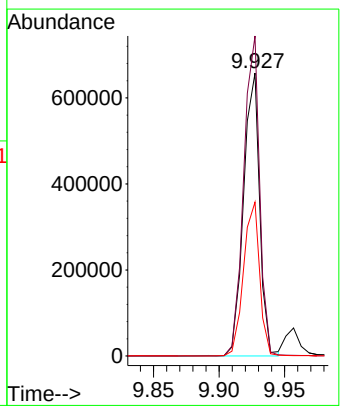


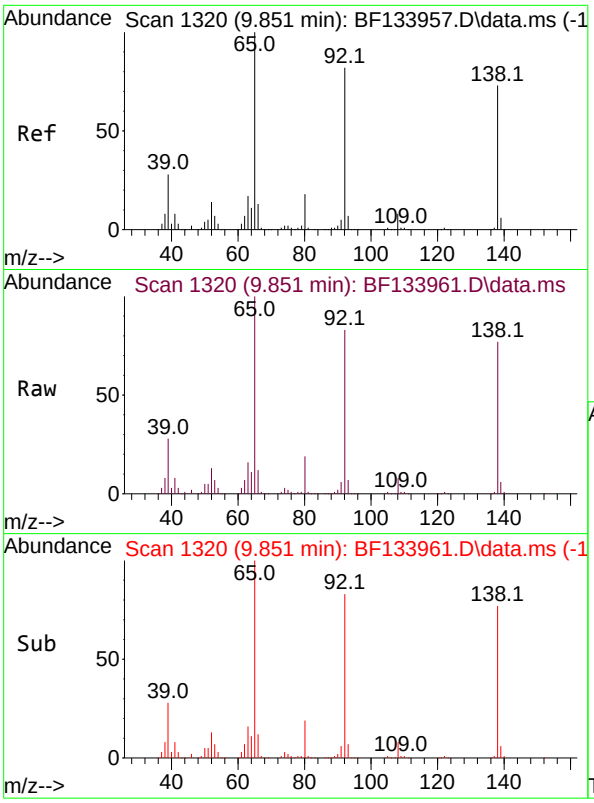


#52
Acenaphthene
Concen: 39.555 ng
RT: 9.927 min Scan# 1333
Delta R.T. 0.000 min
Lab File: BF133961.D
Acq: 26 Jun 2023 19:56

Tgt Ion:154 Resp: 564497

Ion	Ratio	Lower	Upper
154	100		
153	113.1	89.4	134.2
152	54.3	42.8	64.2





#53
3-Nitroaniline
Concen: 41.045 ng
RT: 9.851 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF133961.D
Acq: 26 Jun 2023 19:56

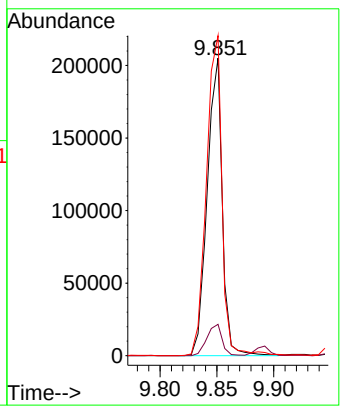
Tgt Ion:138 Resp: 18885

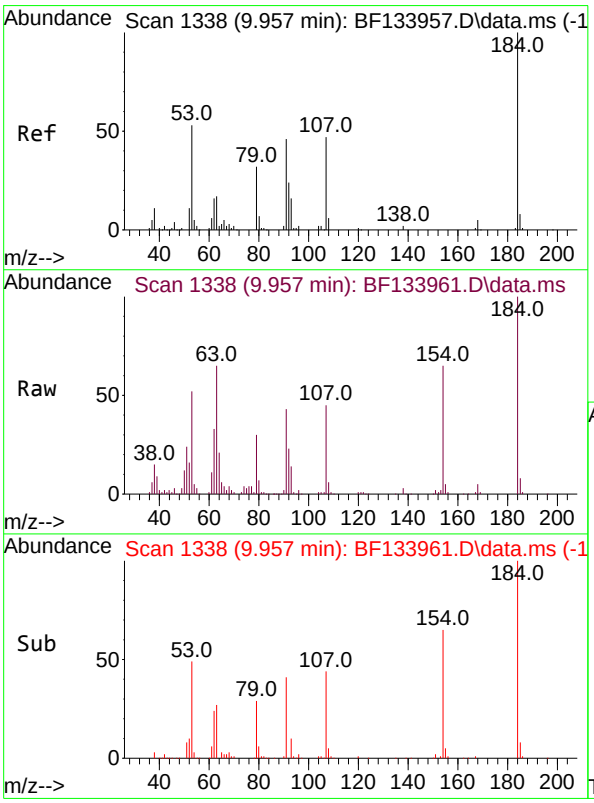
Ion	Ratio	Lower	Upper
138	100		
108	10.5	8.4	12.6
92	107.5	90.1	135.1

Instrument :
BNA_F
ClientSampleId :
ICVBF062623

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

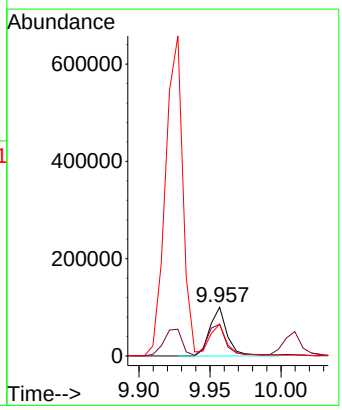


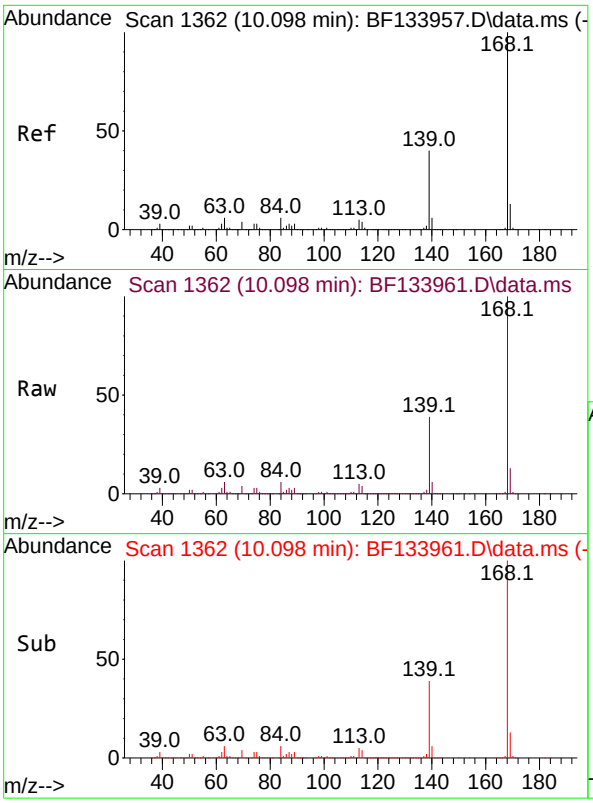


#54
2,4-Dinitrophenol
Concen: 40.967 ng
RT: 9.957 min Scan# 1338
Delta R.T. -0.000 min
Lab File: BF133961.D
Acq: 26 Jun 2023 19:56

Tgt Ion:184 Resp: 86353

Ion	Ratio	Lower	Upper
184	100		
63	64.9	56.9	85.3
154	64.9	55.4	83.0

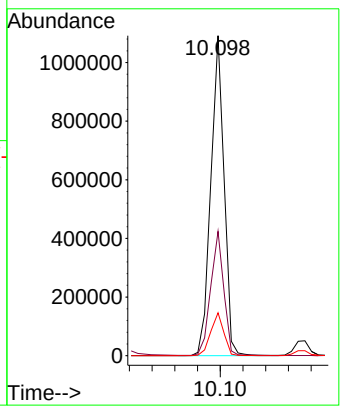




#55
Dibenzofuran
Concen: 39.614 ng
RT: 10.098 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF133961.D
Acq: 26 Jun 2023 19:56

Tgt Ion:168 Resp: 88353

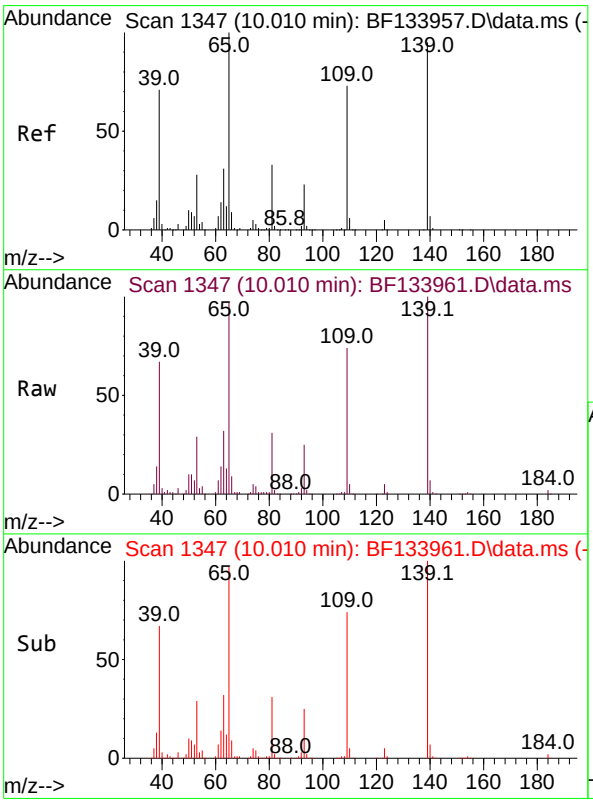
Ion	Ratio	Lower	Upper
168	100		
139	38.8	32.0	48.0
169	13.4	10.6	16.0



Instrument :
BNA_F
ClientSampleId :
ICVBF062623

Manual Integrations APPROVED

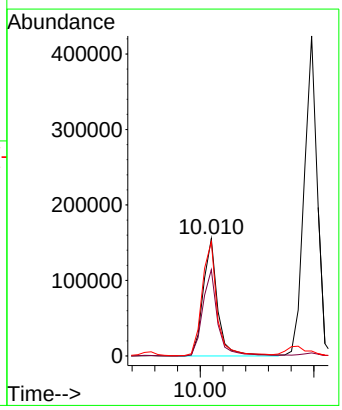
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

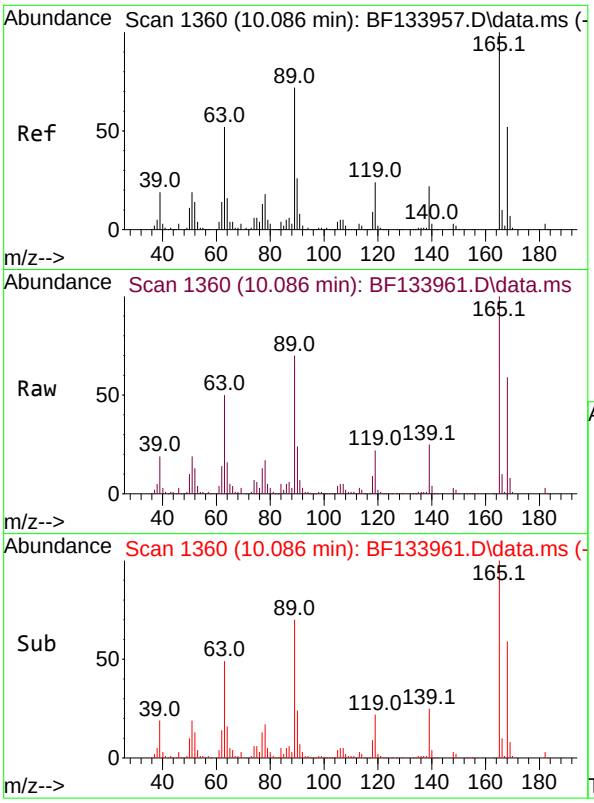


#56
4-Nitrophenol
Concen: 42.614 ng
RT: 10.010 min Scan# 1347
Delta R.T. -0.000 min
Lab File: BF133961.D
Acq: 26 Jun 2023 19:56

Tgt Ion:139 Resp: 137151

Ion	Ratio	Lower	Upper
139	100		
109	73.6	56.8	96.8
65	97.4	86.1	126.1

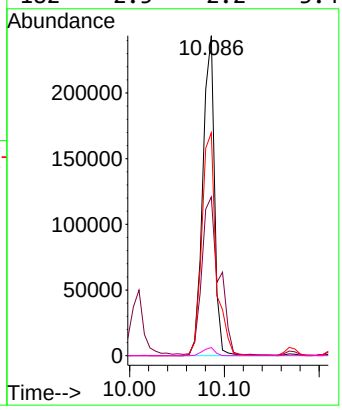




#57
2,4-Dinitrotoluene
Concen: 41.090 ng
RT: 10.086 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF133961.D
Acq: 26 Jun 2023 19:56

Tgt Ion:165 Resp: 20812

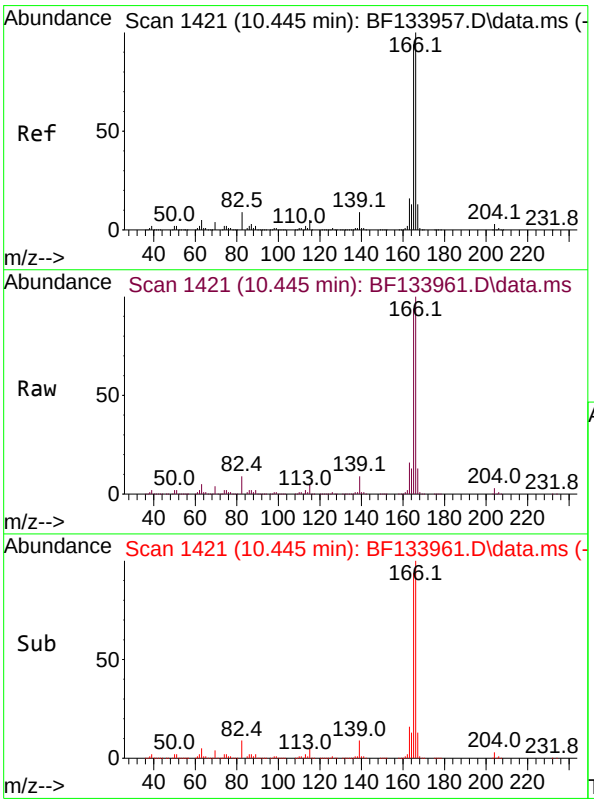
Ion	Ratio	Lower	Upper
165	100		
63	49.6	42.2	63.2
89	69.7	57.4	86.2
182	2.5	2.2	3.4



Instrument :
BNA_F
ClientSampleId :
ICVBF062623

Manual Integrations
APPROVED

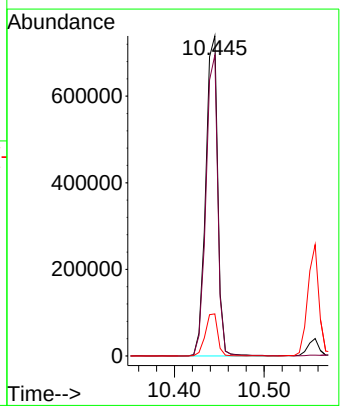
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

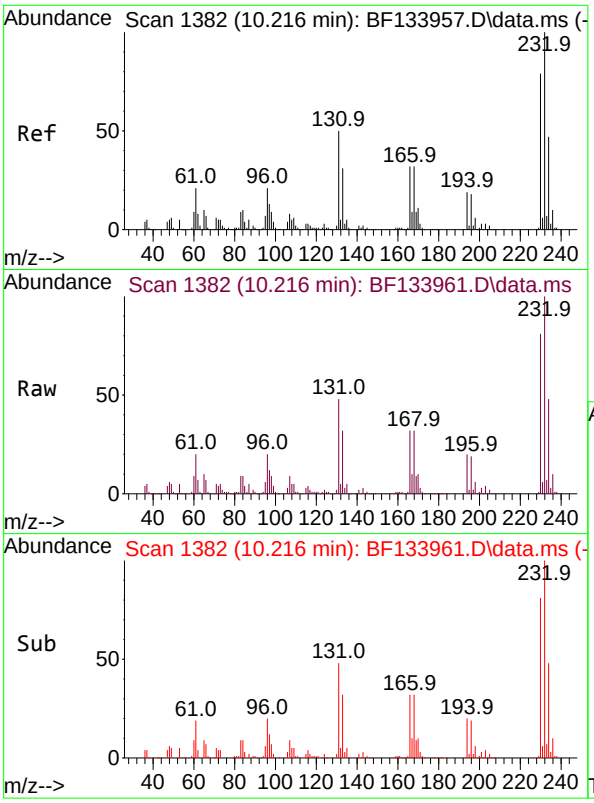


#58
Fluorene
Concen: 39.551 ng
RT: 10.445 min Scan# 1421
Delta R.T. -0.000 min
Lab File: BF133961.D
Acq: 26 Jun 2023 19:56

Tgt Ion:166 Resp: 686283

Ion	Ratio	Lower	Upper
166	100		
165	94.0	75.0	112.4
167	13.1	10.6	15.8

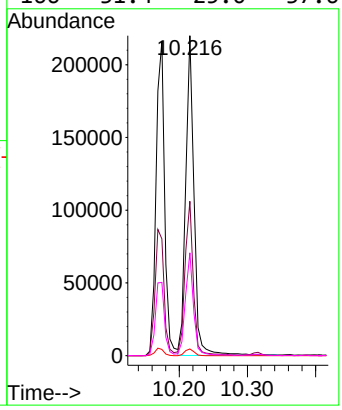




#59
2,3,4,6-Tetrachlorophenol
Concen: 40.191 ng
RT: 10.216 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF133961.D
Acq: 26 Jun 2023 19:56

Tgt Ion:232 Resp: 18449

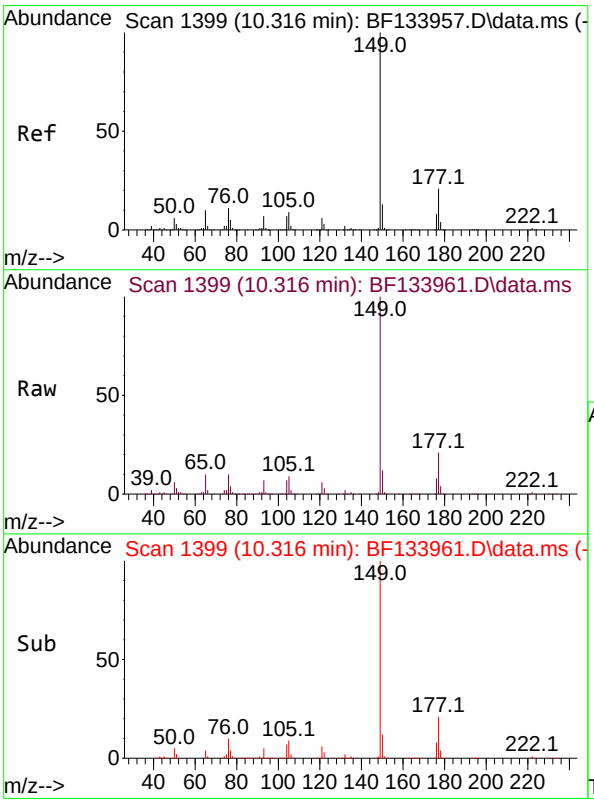
Ion	Ratio	Lower	Upper
232	100		
131	49.0	39.3	58.9
130	2.3	1.8	2.6
166	31.4	25.0	37.6



Instrument :
BNA_F
ClientSampleId :
ICVBF062623

Manual Integrations
APPROVED

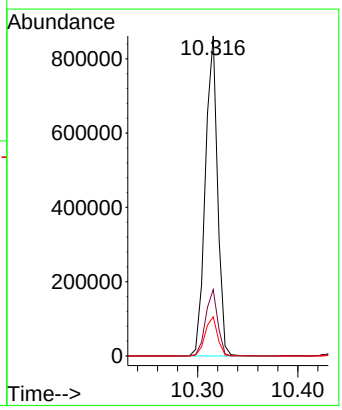
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

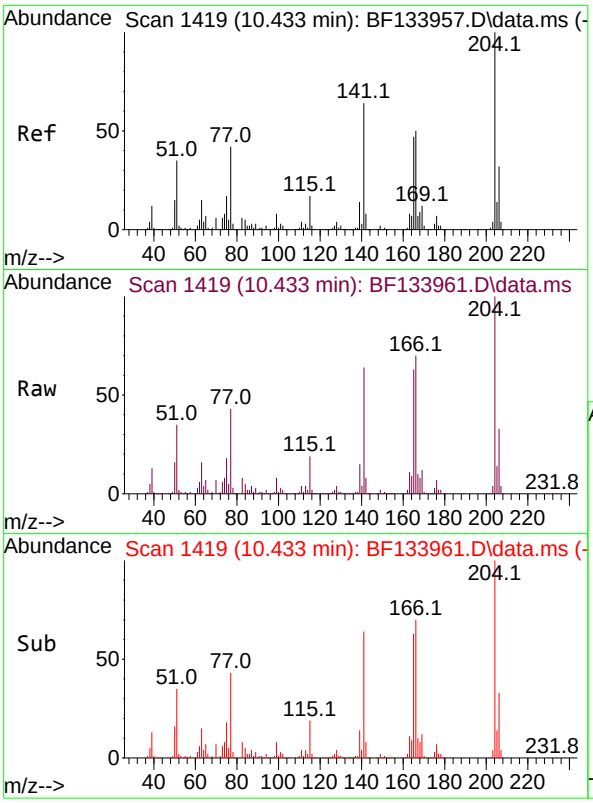


#60
Diethylphthalate
Concen: 39.416 ng
RT: 10.316 min Scan# 1399
Delta R.T. -0.000 min
Lab File: BF133961.D
Acq: 26 Jun 2023 19:56

Tgt Ion:149 Resp: 731255

Ion	Ratio	Lower	Upper
149	100		
177	20.7	17.0	25.6
150	12.3	10.2	15.2





#61
4-Chlorophenyl-phenylether
Concen: 38.659 ng
RT: 10.433 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF133961.D
Acq: 26 Jun 2023 19:56

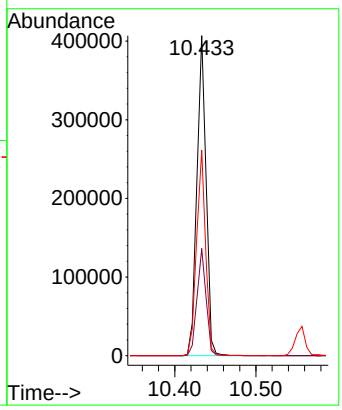
Tgt Ion:204 Resp: 32327

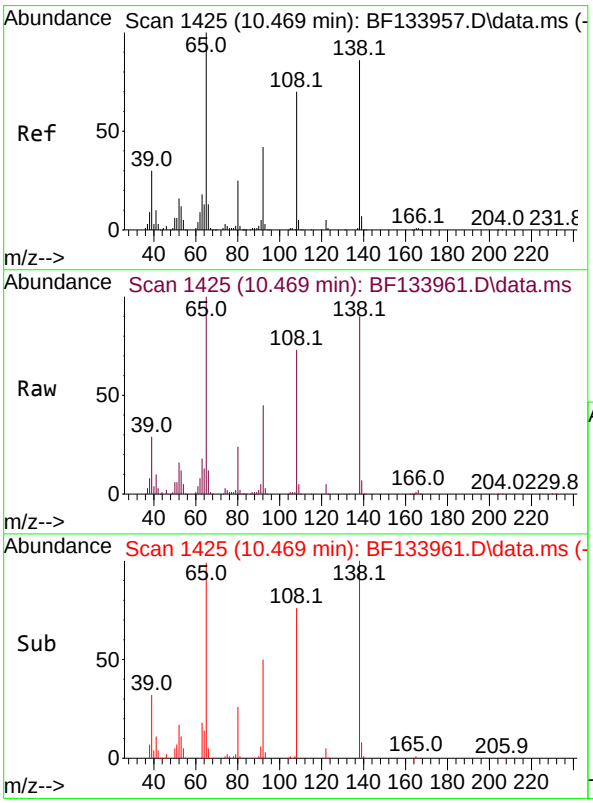
Ion	Ratio	Lower	Upper
204	100		
206	33.5	25.8	38.6
141	64.3	51.5	77.3

Instrument :
BNA_F
ClientSampleId :
ICVBF062623

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

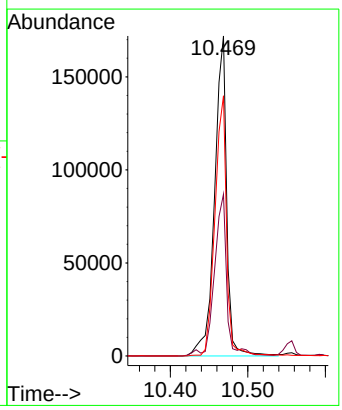


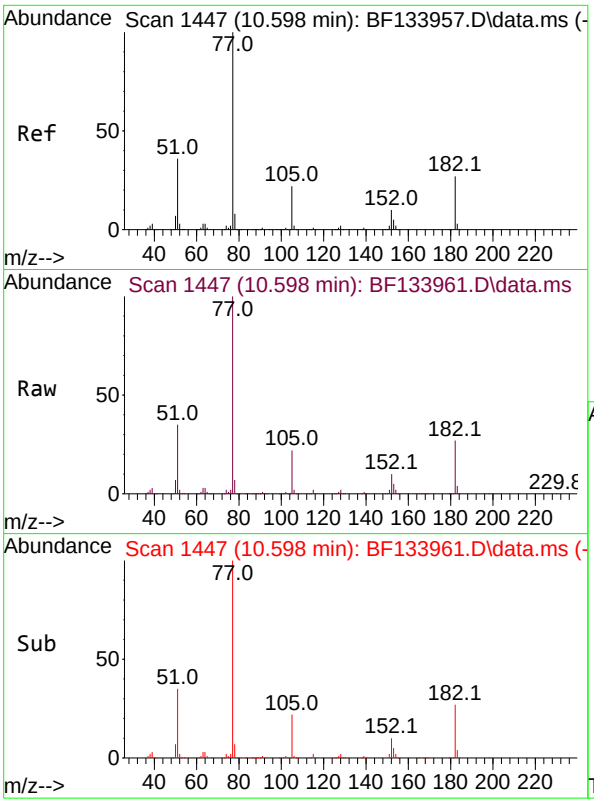


#62
4-Nitroaniline
Concen: 40.446 ng
RT: 10.469 min Scan# 1425
Delta R.T. -0.000 min
Lab File: BF133961.D
Acq: 26 Jun 2023 19:56

Tgt Ion:138 Resp: 187546

Ion	Ratio	Lower	Upper
138	100		
92	50.6	29.7	69.7
108	81.3	62.1	102.1

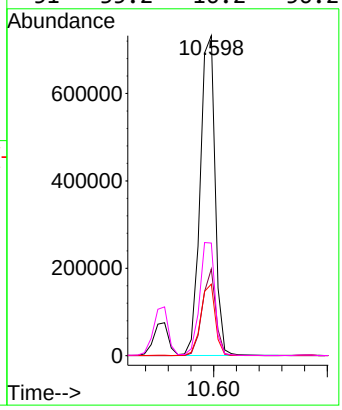




#63
Azobenzene
Concen: 38.012 ng
RT: 10.598 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF133961.D
Acq: 26 Jun 2023 19:56

Tgt Ion: 77 Resp: 66706

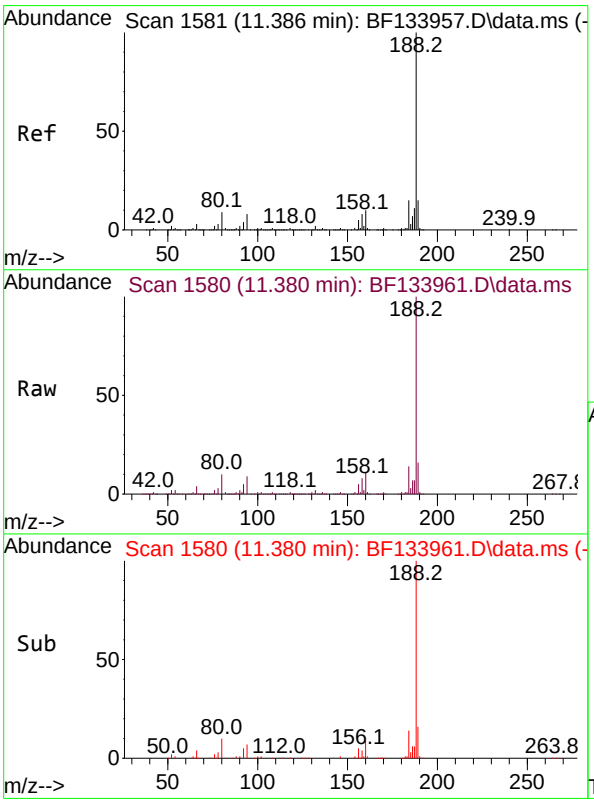
Ion	Ratio	Lower	Upper
77	100		
182	27.1	6.8	46.8
105	22.3	2.3	42.3
51	35.2	16.2	56.2



Instrument :
BNA_F
ClientSampleId :
ICVBF062623

Manual Integrations APPROVED

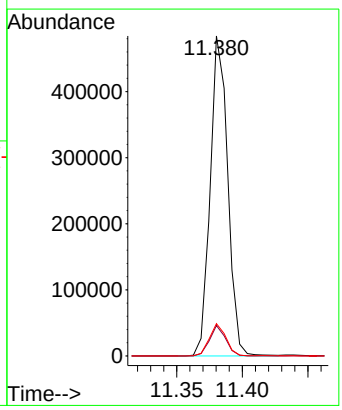
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

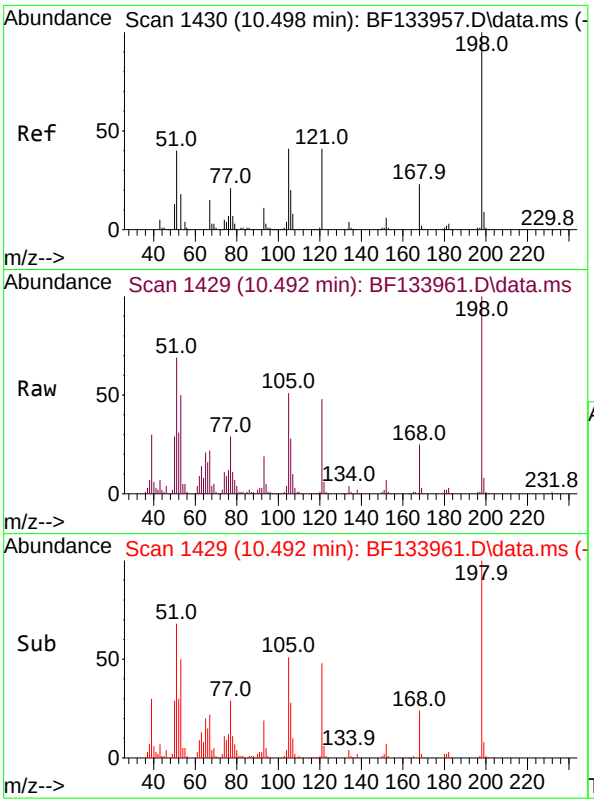


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.380 min Scan# 1580
Delta R.T. -0.006 min
Lab File: BF133961.D
Acq: 26 Jun 2023 19:56

Tgt Ion:188 Resp: 451008

Ion	Ratio	Lower	Upper
188	100		
94	9.5	6.4	9.6
80	10.1	7.3	10.9





#65
4,6-Dinitro-2-methylphenol
Concen: 46.994 ng
RT: 10.492 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF133961.D
Acq: 26 Jun 2023 19:56

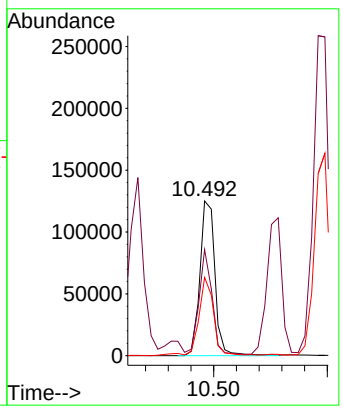
Tgt Ion:198 Resp: 11555

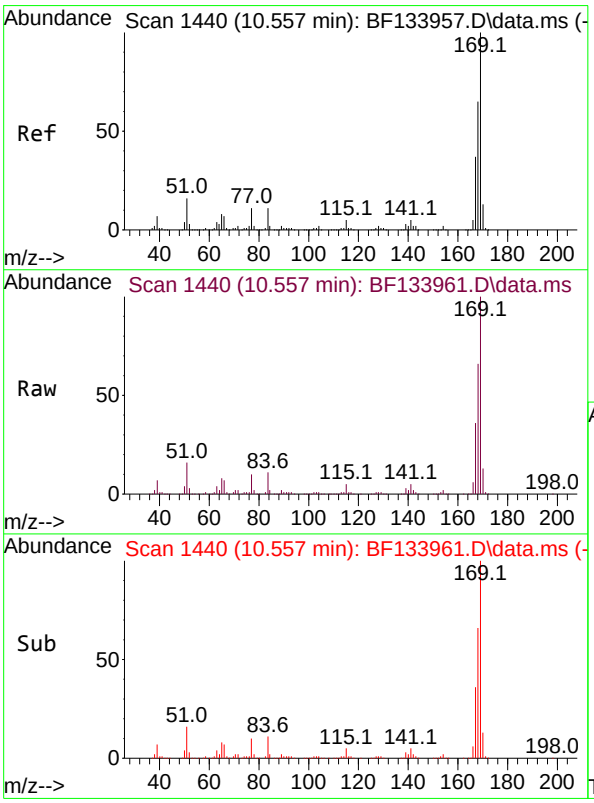
Ion	Ratio	Lower	Upper
198	100		
51	68.5	29.3	69.3
105	50.6	22.4	62.4

Instrument :
BNA_F
ClientSampleId :
ICVBF062623

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

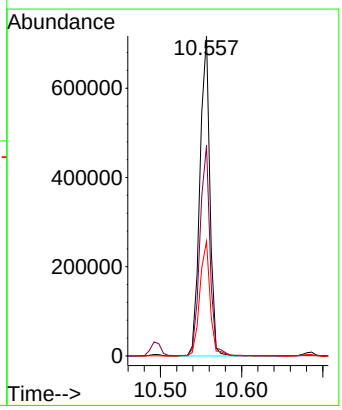


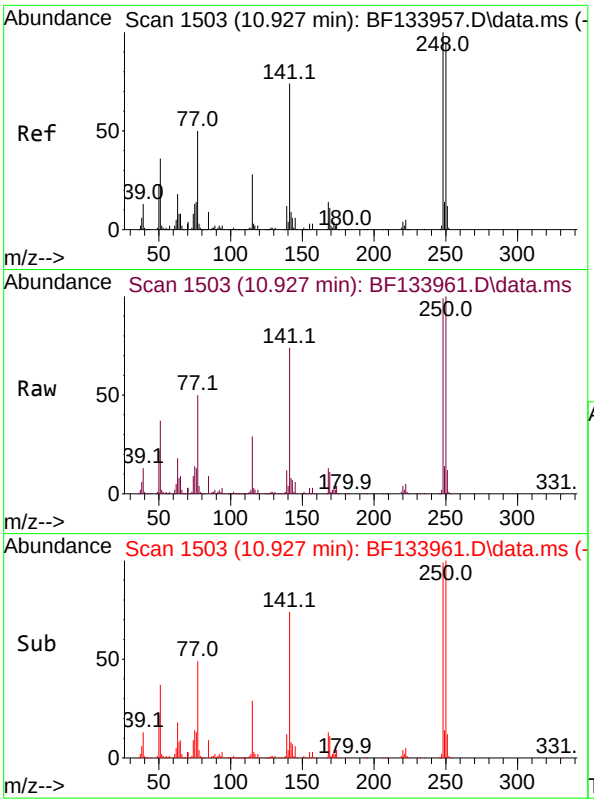


#66
n-Nitrosodiphenylamine
Concen: 42.514 ng
RT: 10.557 min Scan# 1440
Delta R.T. 0.000 min
Lab File: BF133961.D
Acq: 26 Jun 2023 19:56

Tgt Ion:169 Resp: 612625

Ion	Ratio	Lower	Upper
169	100		
168	65.9	52.3	78.5
167	35.9	29.4	44.0

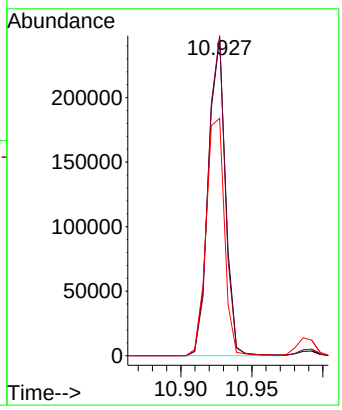




#67
4-Bromophenyl-phenylether
Concen: 42.887 ng
RT: 10.927 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF133961.D
Acq: 26 Jun 2023 19:56

Tgt Ion:248 Resp: 20558

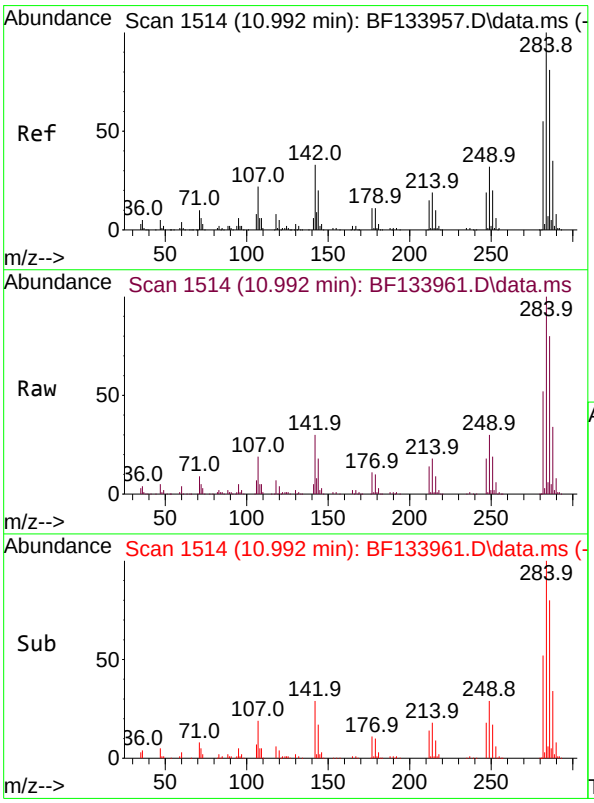
Ion	Ratio	Lower	Upper
248	100		
250	100.7	76.2	114.4
141	74.7	59.0	88.4



Instrument :
BNA_F
ClientSampleId :
ICVBF062623

Manual Integrations
APPROVED

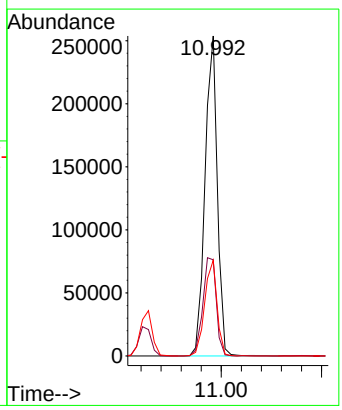
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

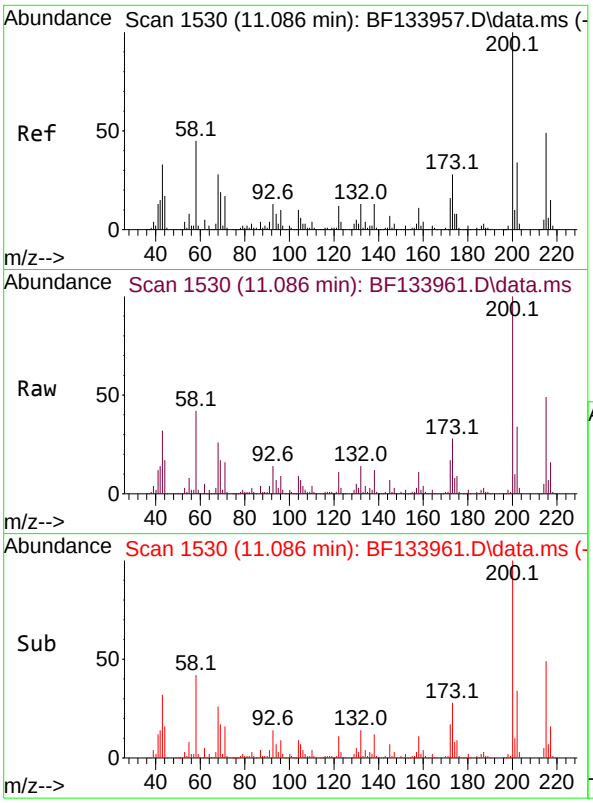


#68
Hexachlorobenzene
Concen: 42.547 ng
RT: 10.992 min Scan# 1514
Delta R.T. 0.000 min
Lab File: BF133961.D
Acq: 26 Jun 2023 19:56

Tgt Ion:284 Resp: 216552

Ion	Ratio	Lower	Upper
284	100		
142	30.1	26.6	40.0
249	29.9	25.5	38.3

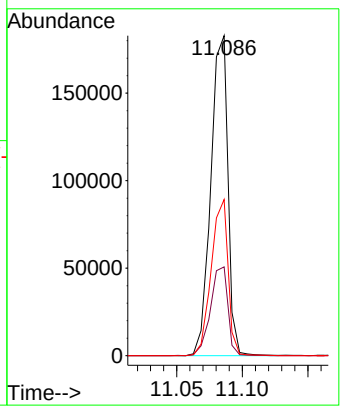




#69
Atrazine
Concen: 41.681 ng
RT: 11.086 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF133961.D
Acq: 26 Jun 2023 19:56

Tgt Ion:200 Resp: 16613

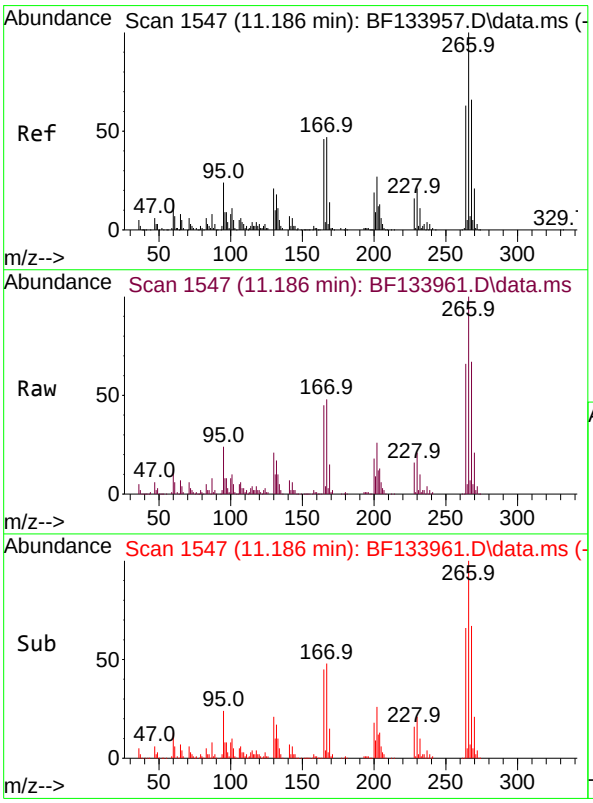
Ion	Ratio	Lower	Upper
200	100		
173	27.7	8.0	48.0
215	48.8	29.3	69.3



Instrument :
BNA_F
ClientSampleId :
ICVBF062623

Manual Integrations APPROVED

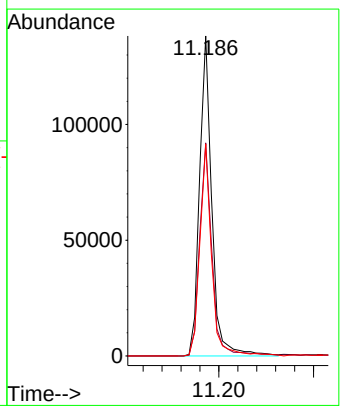
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

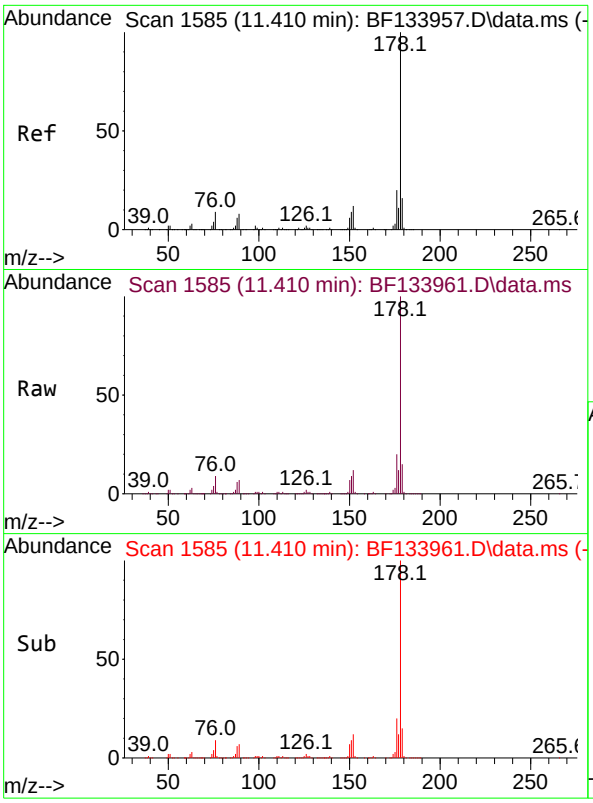


#70
Pentachlorophenol
Concen: 40.954 ng
RT: 11.186 min Scan# 1547
Delta R.T. -0.000 min
Lab File: BF133961.D
Acq: 26 Jun 2023 19:56

Tgt Ion:266 Resp: 124633

Ion	Ratio	Lower	Upper
266	100		
268	66.6	52.6	79.0
264	66.2	50.6	76.0

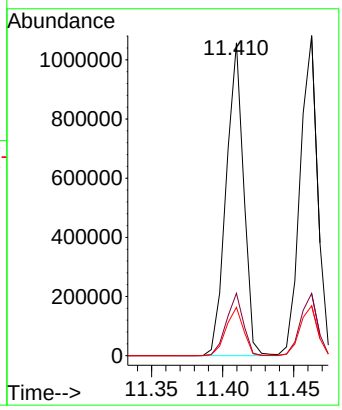




#71
Phenanthrene
Concen: 39.813 ng
RT: 11.410 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF133961.D
Acq: 26 Jun 2023 19:56

Tgt Ion:178 Resp: 90393

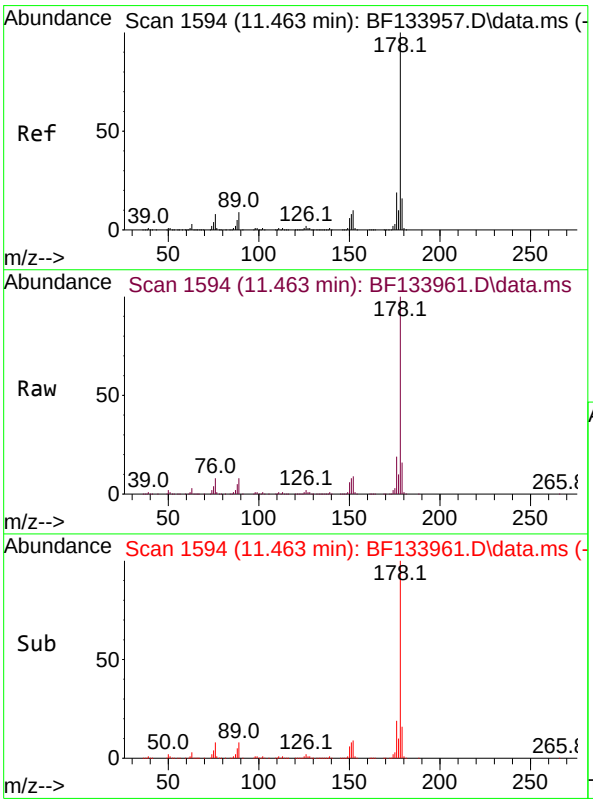
Ion	Ratio	Lower	Upper
178	100		
176	20.0	16.0	24.0
179	15.4	12.4	18.6



Instrument :
BNA_F
ClientSampleId :
ICVBF062623

Manual Integrations APPROVED

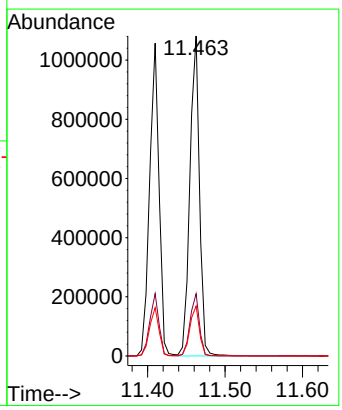
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

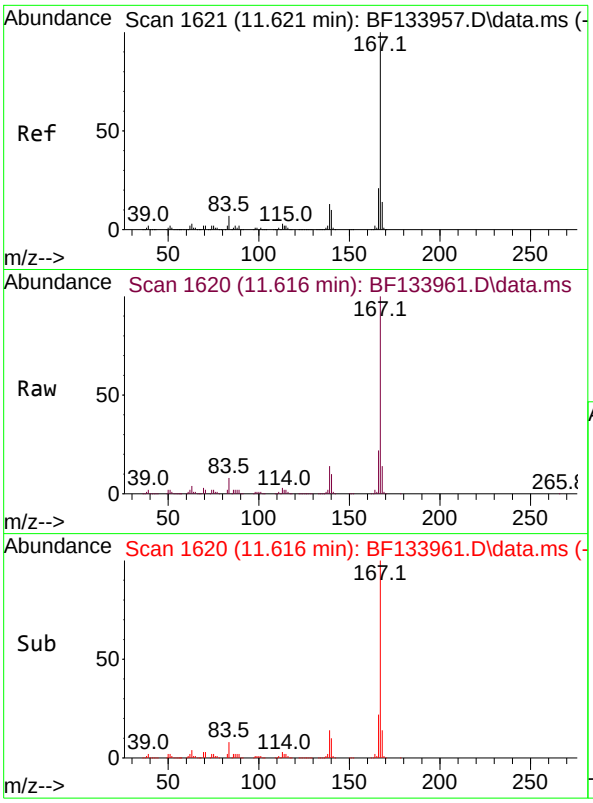


#72
Anthracene
Concen: 39.299 ng
RT: 11.463 min Scan# 1594
Delta R.T. -0.000 min
Lab File: BF133961.D
Acq: 26 Jun 2023 19:56

Tgt Ion:178 Resp: 928065

Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.3	22.9
179	15.6	12.4	18.6

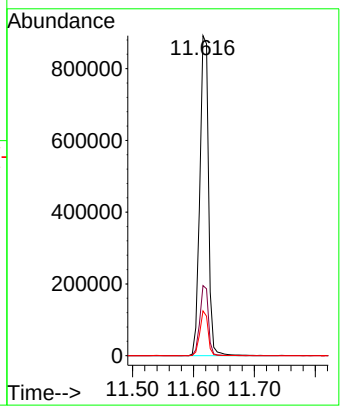




#73
Carbazole
Concen: 40.663 ng
RT: 11.616 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF133961.D
Acq: 26 Jun 2023 19:56

Tgt Ion:167 Resp: 87893

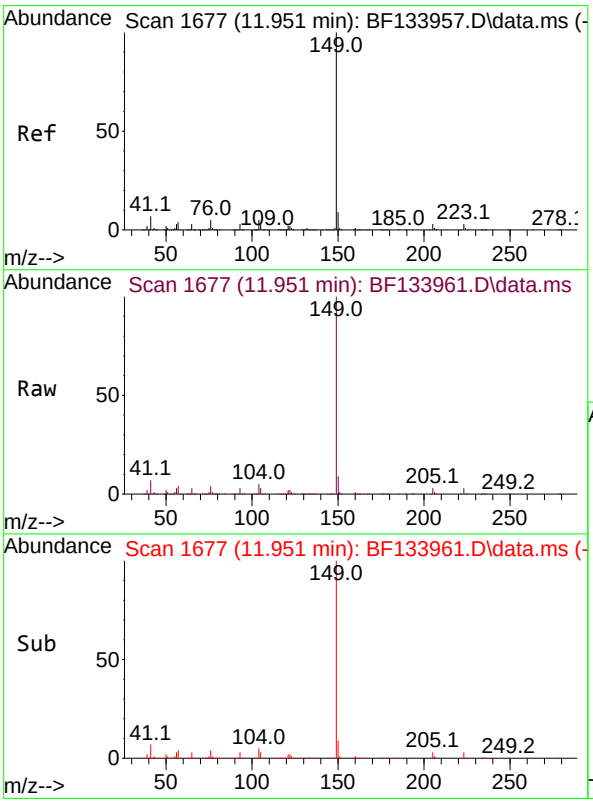
Ion	Ratio	Lower	Upper
167	100		
166	21.9	17.0	25.6
139	14.0	10.4	15.6



Instrument :
BNA_F
ClientSampleId :
ICVBF062623

Manual Integrations APPROVED

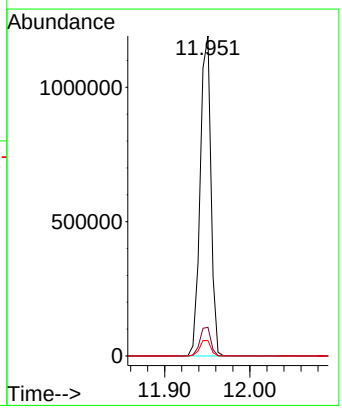
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

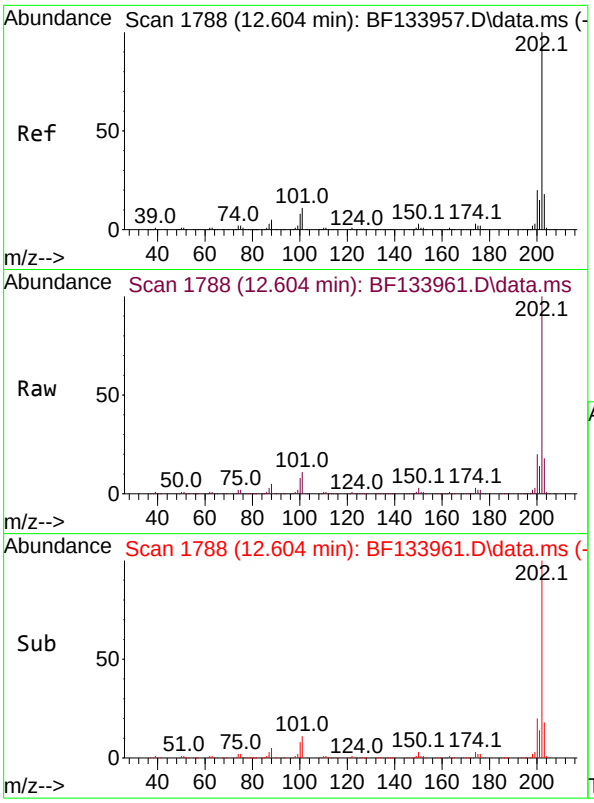


#74
Di-n-butylphthalate
Concen: 40.723 ng
RT: 11.951 min Scan# 1677
Delta R.T. -0.000 min
Lab File: BF133961.D
Acq: 26 Jun 2023 19:56

Tgt Ion:149 Resp: 1046757

Ion	Ratio	Lower	Upper
149	100		
150	9.0	7.1	10.7
104	4.8	4.0	6.0

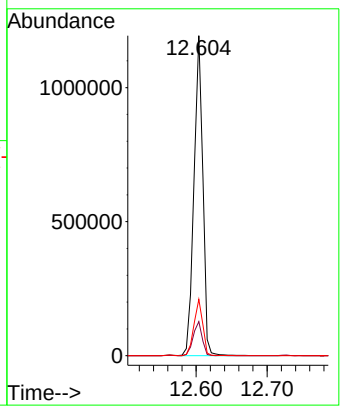




#75
Fluoranthene
Concen: 42.248 ng
RT: 12.604 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF133961.D
Acq: 26 Jun 2023 19:56

Tgt Ion:202 Resp: 103699

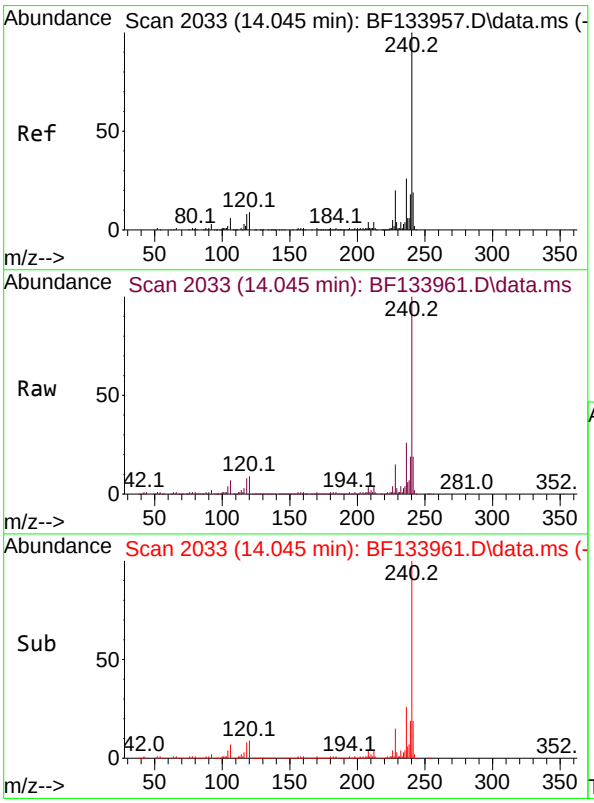
Ion	Ratio	Lower	Upper
202	100		
101	10.6	0.0	31.0
203	17.6	0.0	37.6



Instrument :
BNA_F
ClientSampleId :
ICVBF062623

Manual Integrations APPROVED

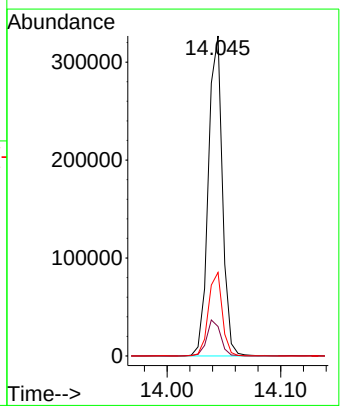
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

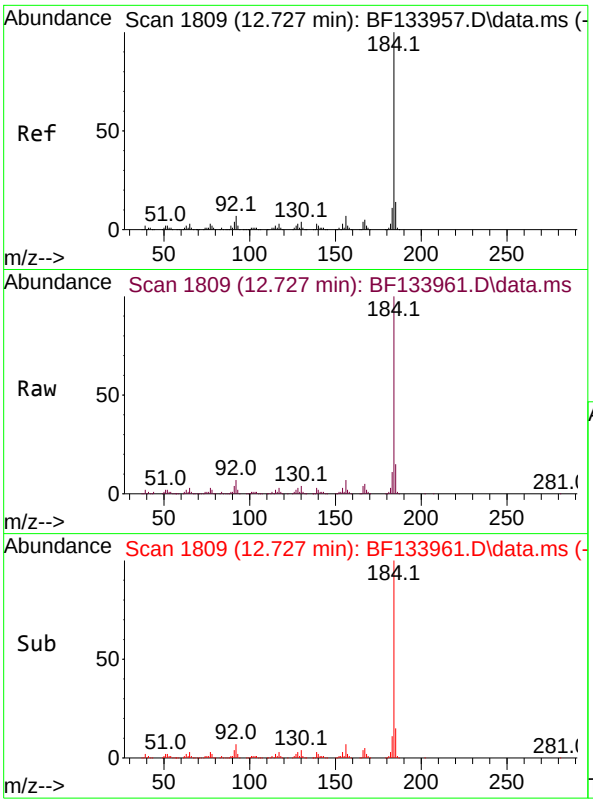


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.045 min Scan# 2033
Delta R.T. -0.000 min
Lab File: BF133961.D
Acq: 26 Jun 2023 19:56

Tgt Ion:240 Resp: 281139

Ion	Ratio	Lower	Upper
240	100		
120	9.2	7.4	11.0
236	26.1	21.0	31.6

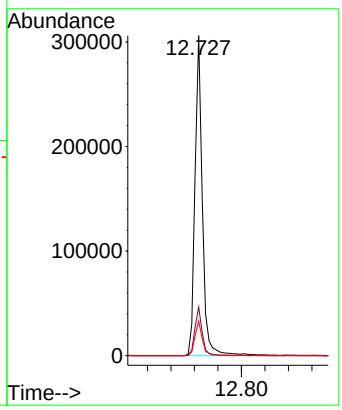




#77
Benzidine
Concen: 39.986 ng
RT: 12.727 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF133961.D
Acq: 26 Jun 2023 19:56

Tgt Ion:184 Resp: 26748

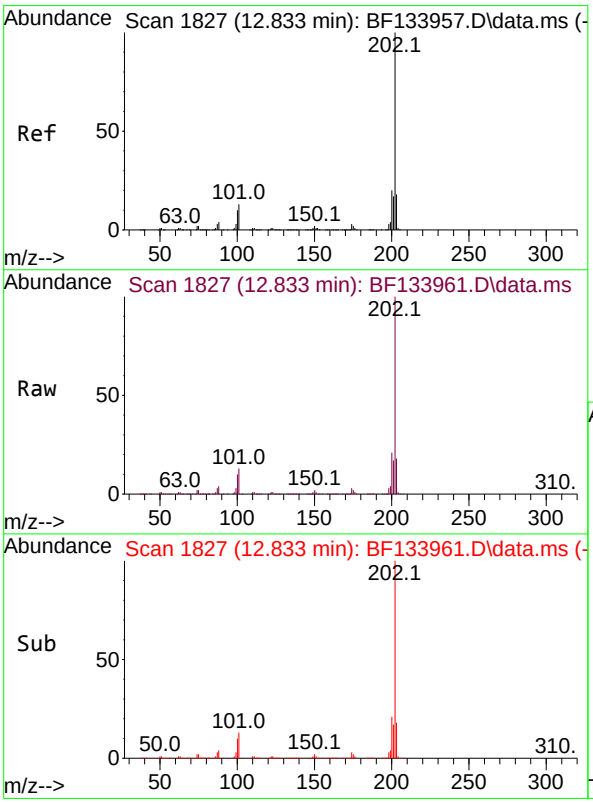
Ion	Ratio	Lower	Upper
184	100		
185	15.2	11.6	17.4
183	10.8	8.8	13.2



Instrument :
BNA_F
ClientSampleId :
ICVBF062623

Manual Integrations
APPROVED

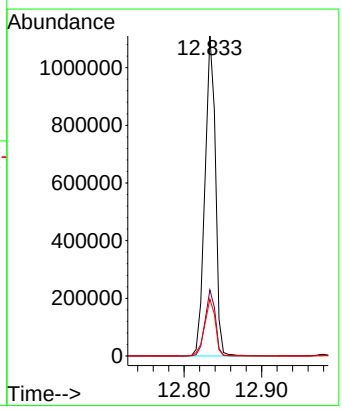
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

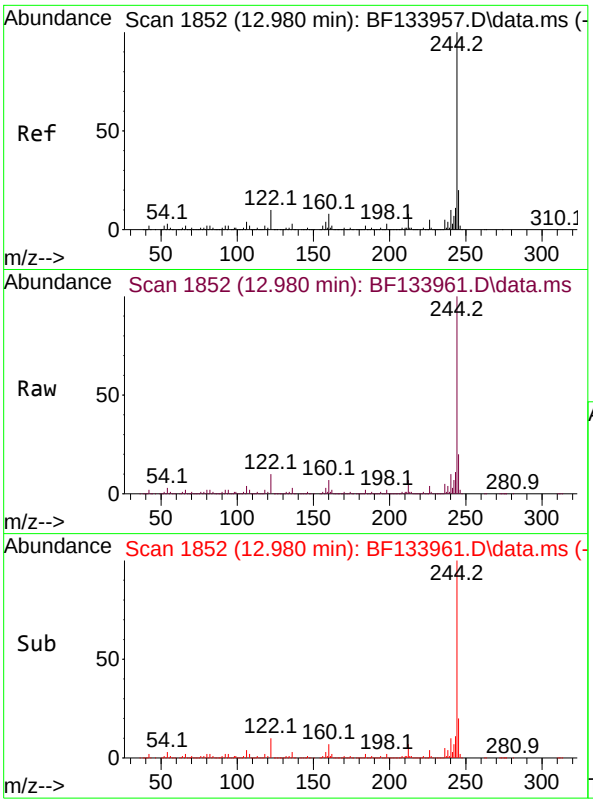


#78
Pyrene
Concen: 39.967 ng
RT: 12.833 min Scan# 1827
Delta R.T. -0.000 min
Lab File: BF133961.D
Acq: 26 Jun 2023 19:56

Tgt Ion:202 Resp: 1045698

Ion	Ratio	Lower	Upper
202	100		
200	20.7	16.1	24.1
203	17.7	14.3	21.5

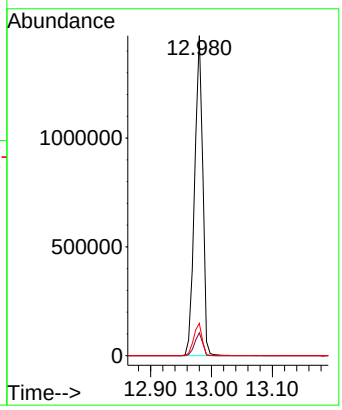




#79
Terphenyl-d14
Concen: 78.164 ng
RT: 12.980 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF133961.D
Acq: 26 Jun 2023 19:56

Tgt Ion:244 Resp: 136539

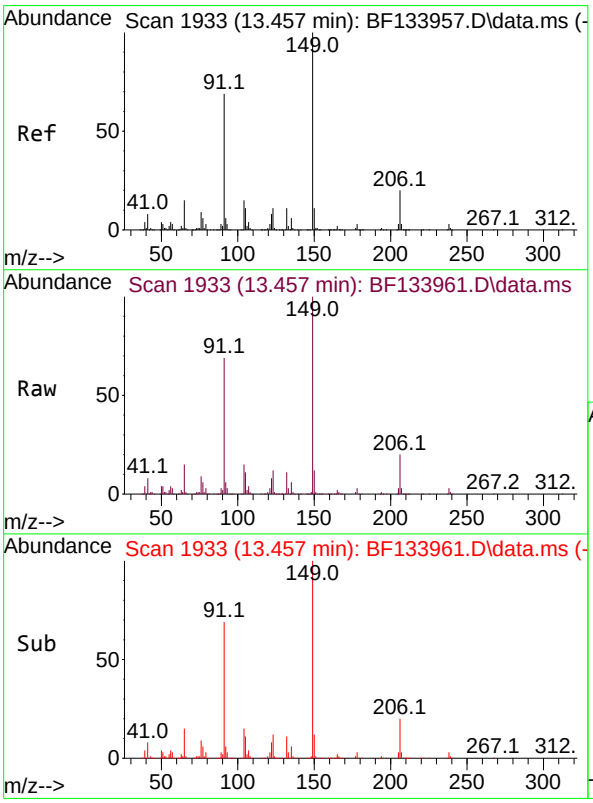
Ion	Ratio	Lower	Upper
244	100		
212	7.1	6.0	9.0
122	10.1	8.3	12.5



Instrument :
BNA_F
ClientSampleId :
ICVBF062623

Manual Integrations APPROVED

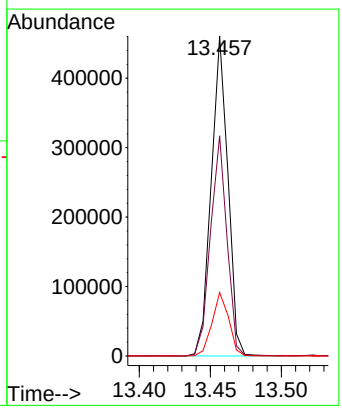
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

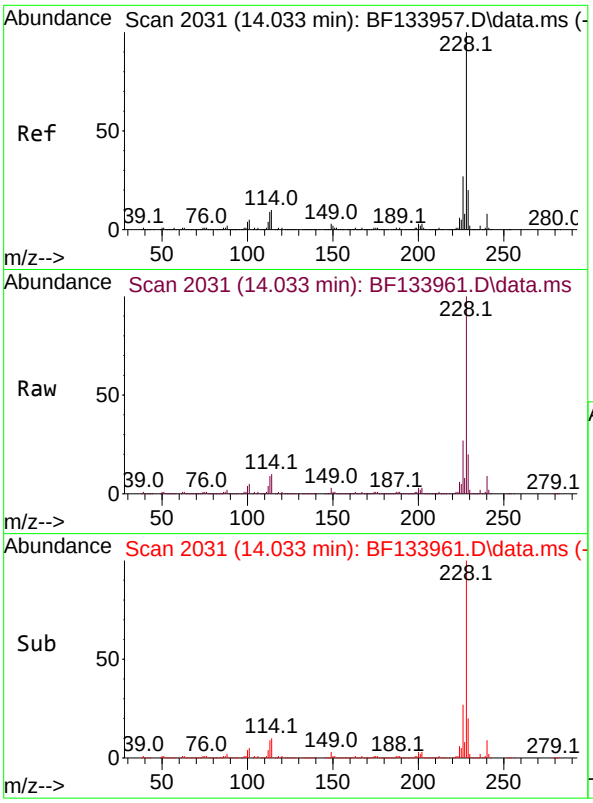


#80
Butylbenzylphthalate
Concen: 38.411 ng
RT: 13.457 min Scan# 1933
Delta R.T. -0.000 min
Lab File: BF133961.D
Acq: 26 Jun 2023 19:56

Tgt Ion:149 Resp: 376918

Ion	Ratio	Lower	Upper
149	100		
91	68.8	55.1	82.7
206	19.9	15.7	23.5

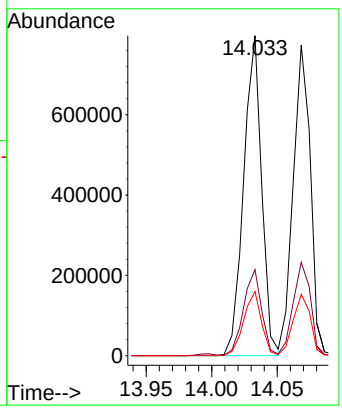




#81
Benzo(a)anthracene
Concen: 39.010 ng
RT: 14.033 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF133961.D
Acq: 26 Jun 2023 19:56

Tgt Ion:228 Resp: 76059

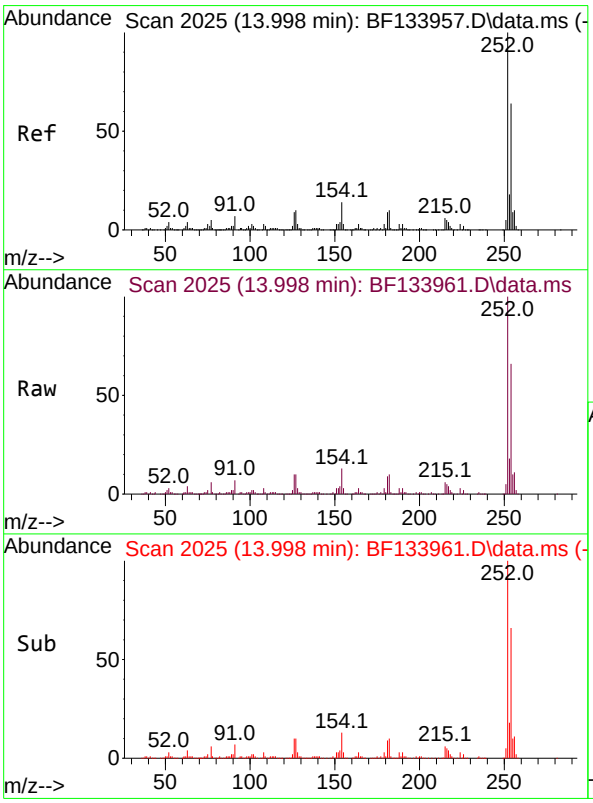
Ion	Ratio	Lower	Upper
228	100		
226	26.9	22.0	33.0
229	20.0	16.3	24.5



Instrument :
BNA_F
ClientSampleId :
ICVBF062623

Manual Integrations
APPROVED

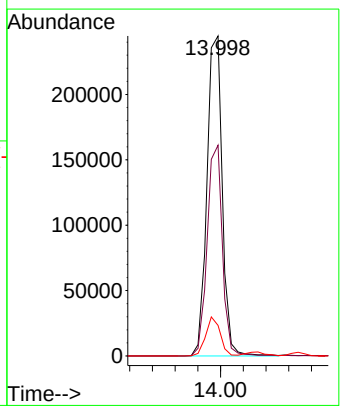
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

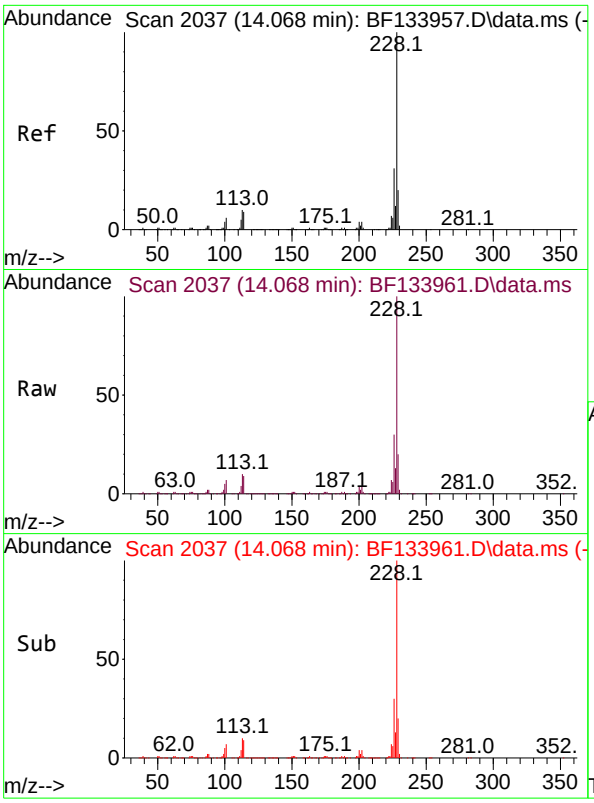


#82
3,3'-Dichlorobenzidine
Concen: 37.051 ng
RT: 13.998 min Scan# 2025
Delta R.T. -0.000 min
Lab File: BF133961.D
Acq: 26 Jun 2023 19:56

Tgt Ion:252 Resp: 228869

Ion	Ratio	Lower	Upper
252	100		
254	65.9	51.4	77.0
126	9.6	7.4	11.2

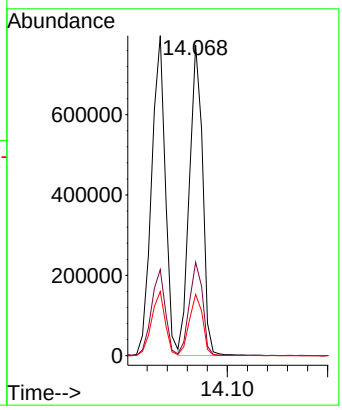




#83
Chrysene
Concen: 37.334 ng
RT: 14.068 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF133961.D
Acq: 26 Jun 2023 19:56

Tgt Ion:228 Resp: 70503

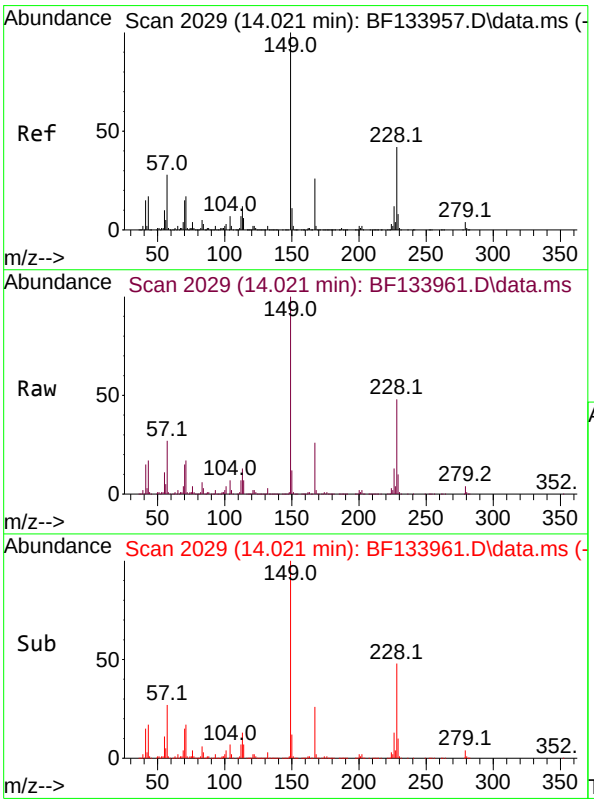
Ion	Ratio	Lower	Upper
228	100		
226	30.1	24.4	36.6
229	19.7	16.1	24.1



Instrument :
BNA_F
ClientSampleId :
ICVBF062623

Manual Integrations
APPROVED

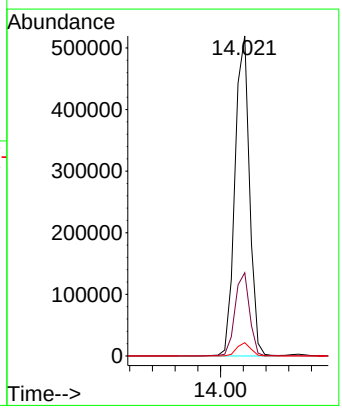
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

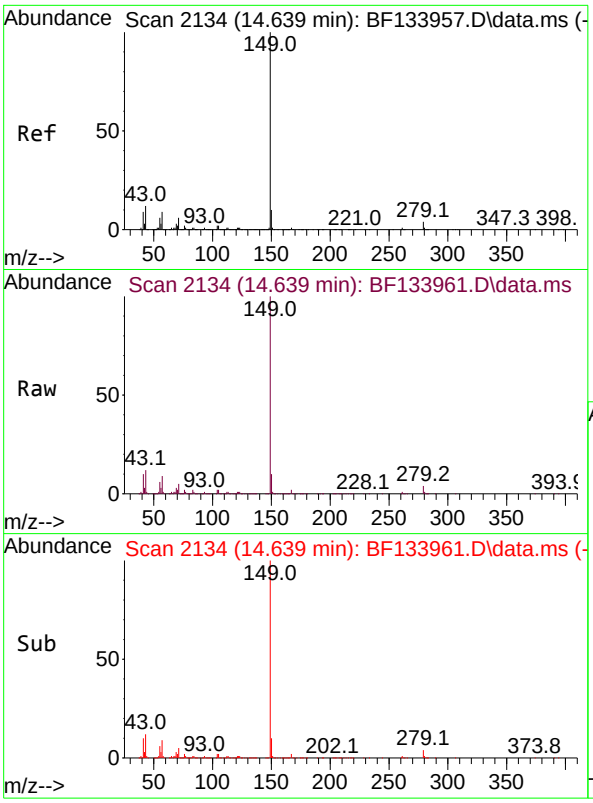


#84
Bis(2-ethylhexyl)phthalate
Concen: 40.866 ng
RT: 14.021 min Scan# 2029
Delta R.T. 0.000 min
Lab File: BF133961.D
Acq: 26 Jun 2023 19:56

Tgt Ion:149 Resp: 460777

Ion	Ratio	Lower	Upper
149	100		
167	26.0	21.0	31.4
279	4.1	3.3	4.9

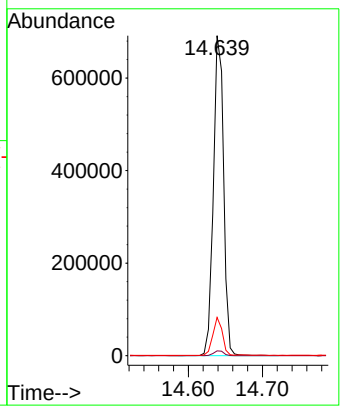




#85
Di-n-octyl phthalate
Concen: 39.870 ng
RT: 14.639 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF133961.D
Acq: 26 Jun 2023 19:56

Tgt Ion:149 Resp: 66055

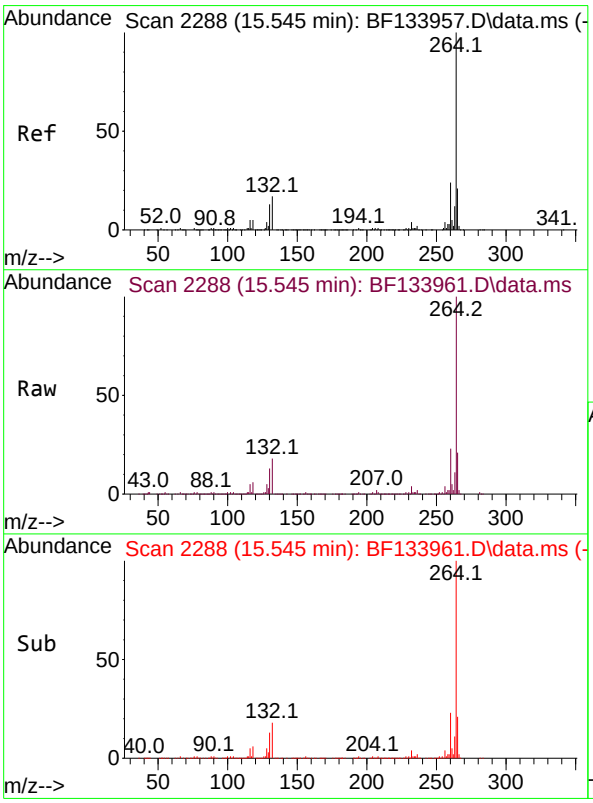
Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	11.1	9.0	13.4



Instrument :
BNA_F
ClientSampleId :
ICVBF062623

Manual Integrations APPROVED

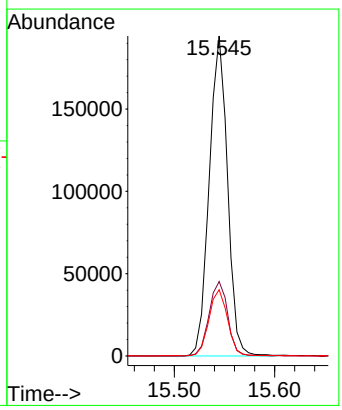
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

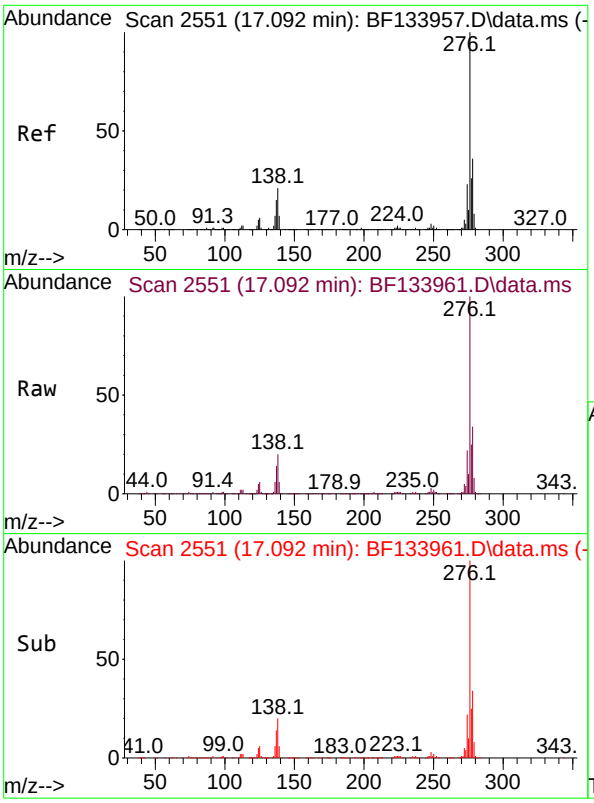


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.545 min Scan# 2288
Delta R.T. -0.000 min
Lab File: BF133961.D
Acq: 26 Jun 2023 19:56

Tgt Ion:264 Resp: 246066

Ion	Ratio	Lower	Upper
264	100		
260	23.3	19.5	29.3
265	20.7	16.6	25.0

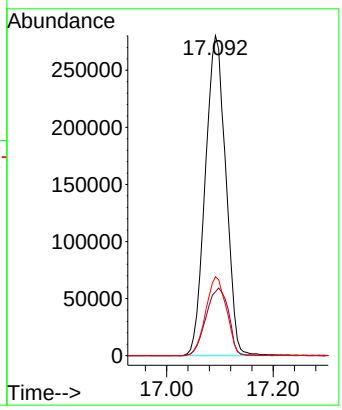




#87
Indeno(1,2,3-cd)pyrene
Concen: 43.906 ng
RT: 17.092 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF133961.D
Acq: 26 Jun 2023 19:56

Tgt Ion:276 Resp: 74967

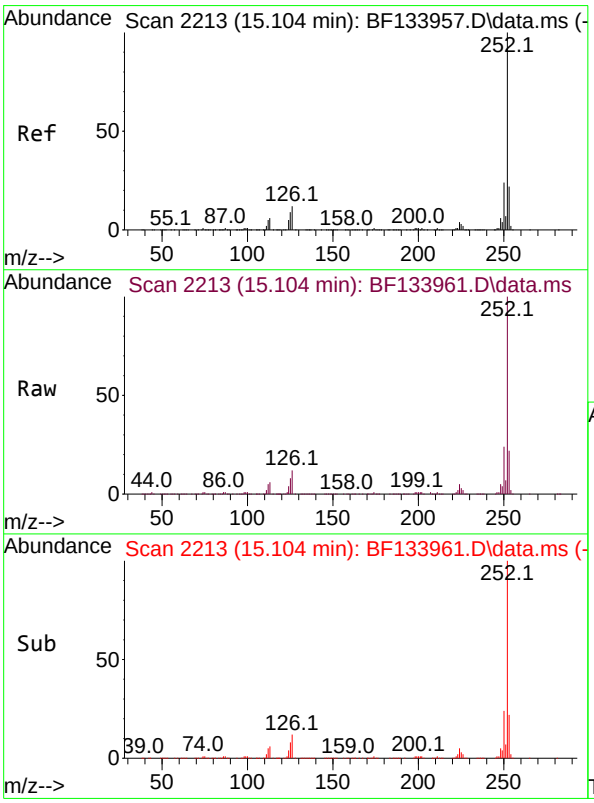
Ion	Ratio	Lower	Upper
276	100		
138	23.3	18.7	28.1
277	25.0	19.9	29.9



Instrument :
BNA_F
ClientSampleId :
ICVBF062623

Manual Integrations APPROVED

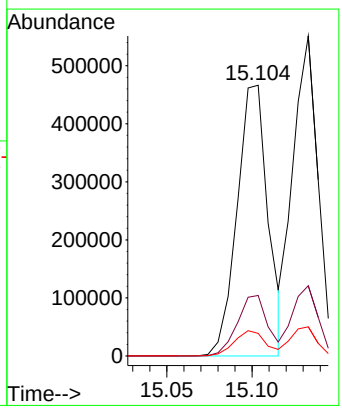
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

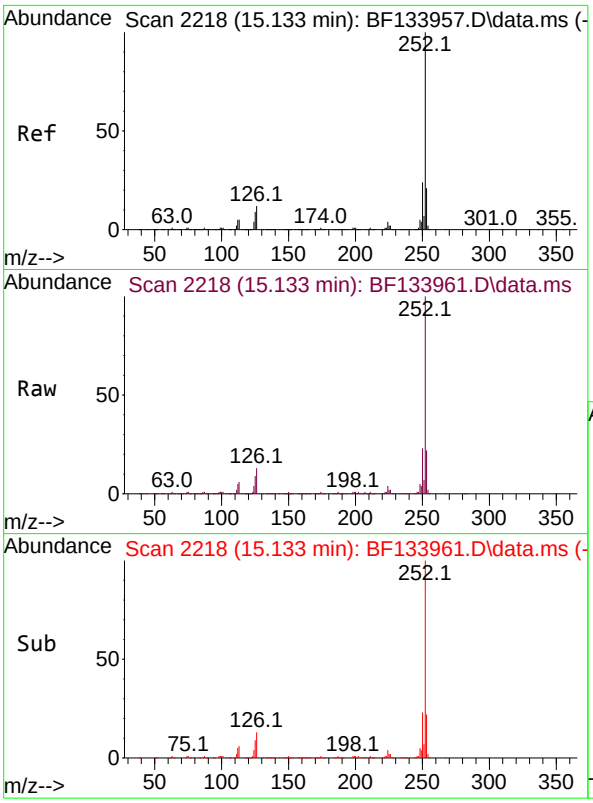


#88
Benzo(b)fluoranthene
Concen: 40.759 ng
RT: 15.104 min Scan# 2213
Delta R.T. 0.000 min
Lab File: BF133961.D
Acq: 26 Jun 2023 19:56

Tgt Ion:252 Resp: 589738

Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.4	26.0
125	8.3	7.1	10.7

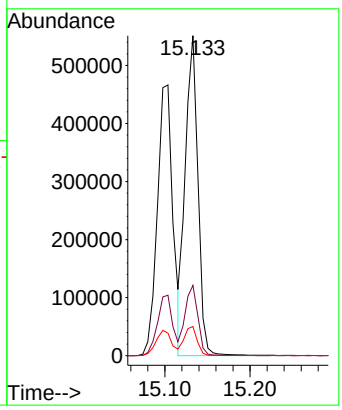




#89
Benzo(k)fluoranthene
Concen: 38.803 ng
RT: 15.133 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF133961.D
Acq: 26 Jun 2023 19:56

Tgt Ion:252 Resp: 57163

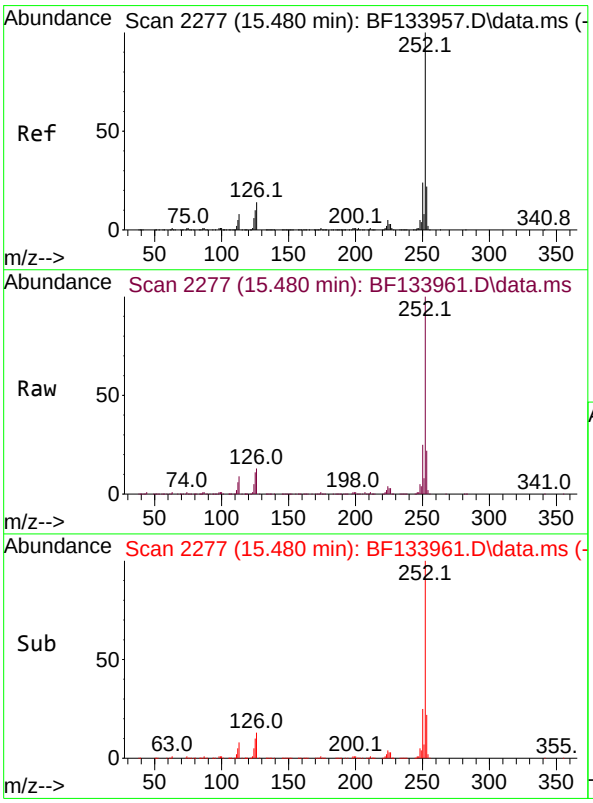
Ion	Ratio	Lower	Upper
252	100		
253	22.0	16.9	25.3
125	9.1	7.4	11.2



Instrument :
BNA_F
ClientSampleId :
ICVBF062623

Manual Integrations APPROVED

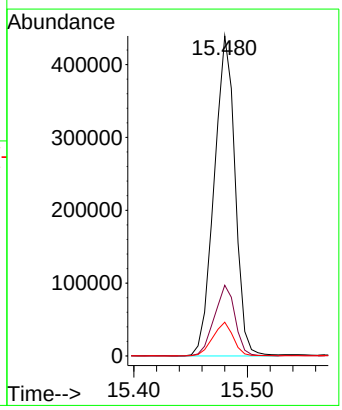
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023

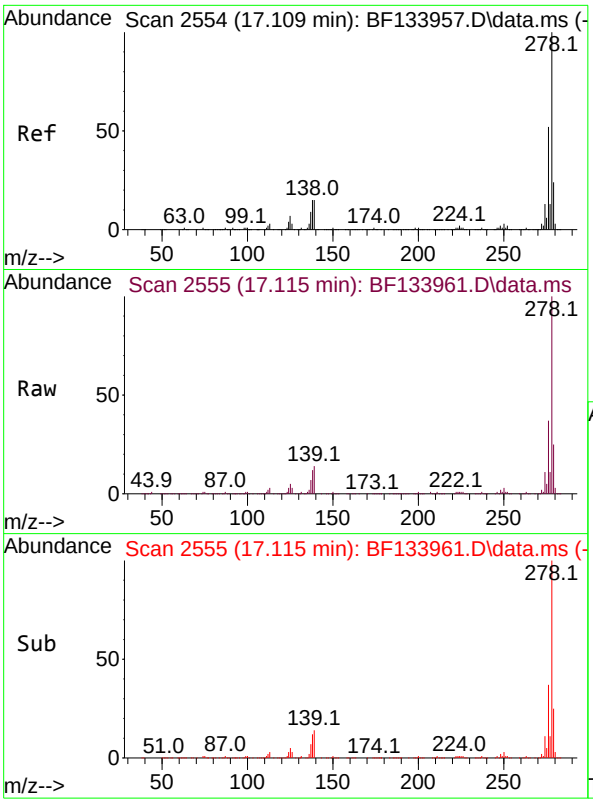


#90
Benzo(a)pyrene
Concen: 40.238 ng
RT: 15.480 min Scan# 2277
Delta R.T. -0.000 min
Lab File: BF133961.D
Acq: 26 Jun 2023 19:56

Tgt Ion:252 Resp: 562979

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.4	26.0
125	10.6	8.4	12.6

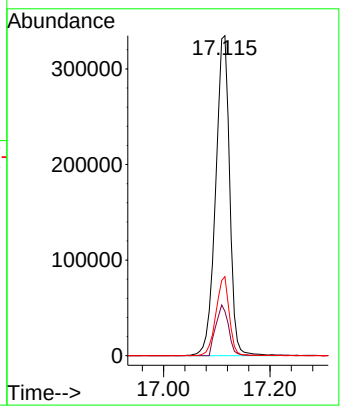




#91
Dibenzo(a,h)anthracene
Concen: 43.836 ng
RT: 17.115 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF133961.D
Acq: 26 Jun 2023 19:56

Tgt Ion:278 Resp: 61134

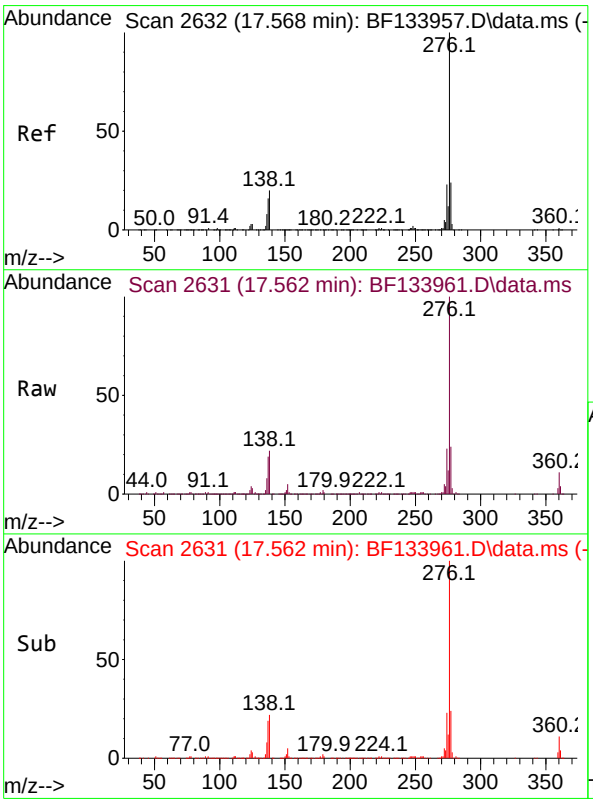
Ion	Ratio	Lower	Upper
278	100		
139	13.9	12.2	18.4
279	24.7	19.4	29.2



Instrument :
BNA_F
ClientSampleId :
ICVBF062623

Manual Integrations
APPROVED

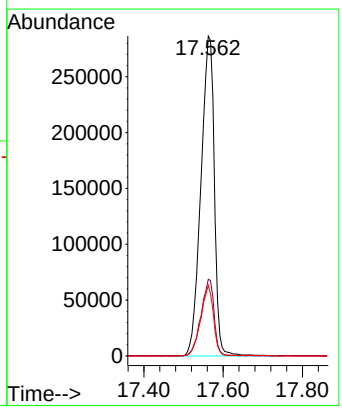
Reviewed By :Yogesh Patel 06/27/2023
Supervised By :mohammad ahmed 06/29/2023



#92
Benzo(g,h,i)perylene
Concen: 46.885 ng
RT: 17.562 min Scan# 2631
Delta R.T. -0.006 min
Lab File: BF133961.D
Acq: 26 Jun 2023 19:56

Tgt Ion:276 Resp: 674300

Ion	Ratio	Lower	Upper
276	100		
277	24.0	19.0	28.6
138	22.1	16.2	24.2



Evaluate Continuing Calibration Report

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF062623\
Data File : BF133961.D
Acq On : 26 Jun 2023 19:56
Operator : CG\JU
Sample : SSTDICV040
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF062623

Quant Time: Jun 26 23:13:47 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF062623.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Jun 26 23:12:04 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	103	0.00
2		1,4-Dioxane	0.493	0.481	2.4	101	0.00
3		Pyridine	1.284	1.278	0.5	103	0.00
4		n-Nitrosodimethylamine	0.733	0.719	1.9	100	0.00
5	S	2-Fluorophenol	1.196	1.133	5.3	100	0.00
6		Aniline	1.789	1.825	-2.0	105	0.00
7	S	Phenol-d6	1.470	1.451	1.3	106	0.00
8		2-Chlorophenol	1.214	1.199	1.2	105	0.00
9		Benzaldehyde	0.886	0.821	7.3	105	0.00
10	C	Phenol	1.546	1.543	0.2	106	0.00
11		bis(2-Chloroethyl)ether	1.138	1.135	0.3	105	0.00
12		1,3-Dichlorobenzene	1.294	1.261	2.6	103	0.00
13	C	1,4-Dichlorobenzene	1.307	1.279	2.1	102	0.00
14		1,2-Dichlorobenzene	1.224	1.212	1.0	107	0.00
15		Benzyl Alcohol	1.134	1.127	0.6	102	0.00
16		2,2'-oxybis(1-Chloropropane	2.014	2.032	-0.9	106	0.00
17		2-Methylphenol	1.087	1.089	-0.2	105	0.00
18		Hexachloroethane	0.485	0.482	0.6	103	0.00
19	P	n-Nitroso-di-n-propylamine	0.932	0.898	3.6	105	0.00
20		3+4-Methylphenols	1.319	1.291	2.1	104	0.00
21	I	Naphthalene-d8	1.000	1.000	0.0	104	0.00
22		Acetophenone	0.455	0.438	3.7	104	0.00
23	S	Nitrobenzene-d5	0.371	0.367	1.1	103	0.00
24		Nitrobenzene	0.375	0.373	0.5	103	0.00
25		Isophorone	0.674	0.658	2.4	104	0.00
26	C	2-Nitrophenol	0.180	0.186	-3.3	105	0.00
27		2,4-Dimethylphenol	0.285	0.282	1.1	103	0.00
28		bis(2-Chloroethoxy)methane	0.390	0.378	3.1	100	0.00
29	C	2,4-Dichlorophenol	0.282	0.277	1.8	102	0.00
30		1,2,4-Trichlorobenzene	0.291	0.285	2.1	102	0.00
31		Naphthalene	0.966	0.951	1.6	104	0.00
32		Benzoic acid	0.213	0.227	-6.6	103	0.00
33		4-Chloroaniline	0.413	0.407	1.5	102	0.00
34	C	Hexachlorobutadiene	0.184	0.178	3.3	101	0.00
35		Caprolactam	0.093	0.094	-1.1	104	0.00
36	C	4-Chloro-3-methylphenol	0.317	0.312	1.6	103	0.00
37		2-Methylnaphthalene	0.683	0.662	3.1	104	0.00
38		1-Methylnaphthalene	0.635	0.609	4.1	103	0.00
39	I	Acenaphthene-d10	1.000	1.000	0.0	104	0.00
40		1,2,4,5-Tetrachlorobenzene	0.593	0.599	-1.0	106	0.00
41	P	Hexachlorocyclopentadiene	0.281	0.292	-3.9	103	0.00
42	S	2,4,6-Tribromophenol	0.251	0.238	5.2	100	0.00
43	C	2,4,6-Trichlorophenol	0.403	0.395	2.0	101	0.00
44		2,4,5-Trichlorophenol	0.474	0.471	0.6	103	0.00
45	S	2-Fluorobiphenyl	1.376	1.314	4.5	103	0.00
46		1,1'-Biphenyl	1.604	1.583	1.3	104	0.00
47		2-Chloronaphthalene	1.174	1.150	2.0	103	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF062623\
Data File : BF133961.D
Acq On : 26 Jun 2023 19:56
Operator : CG\JU
Sample : SSTDICV040
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF062623

Quant Time: Jun 26 23:13:47 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF062623.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Jun 26 23:12:04 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
48		2-Nitroaniline	0.428	0.440	-2.8	106	0.00
49		Acenaphthylene	2.005	1.991	0.7	104	0.00
50		Dimethylphthalate	1.452	1.435	1.2	105	0.00
51		2,6-Dinitrotoluene	0.313	0.320	-2.2	105	0.00
52	C	Acenaphthene	1.164	1.151	1.1	105	0.00
53		3-Nitroaniline	0.375	0.385	-2.7	107	0.00
54	P	2,4-Dinitrophenol	0.162	0.176	-8.6	109	0.00
55		Dibenzofuran	1.818	1.801	0.9	104	0.00
56	P	4-Nitrophenol	0.262	0.280	-6.9	108	0.00
57		2,4-Dinitrotoluene	0.413	0.424	-2.7	106	0.00
58		Fluorene	1.415	1.399	1.1	106	0.00
59		2,3,4,6-Tetrachlorophenol	0.374	0.376	-0.5	106	0.00
60		Diethylphthalate	1.513	1.490	1.5	104	0.00
61		4-Chlorophenyl-phenylether	0.682	0.659	3.4	103	0.00
62		4-Nitroaniline	0.378	0.382	-1.1	105	0.00
63		Azobenzene	1.431	1.360	5.0	100	0.00
64	I	Phenanthrene-d10	1.000	1.000	0.0	96	0.00
65		4,6-Dinitro-2-methylphenol	0.109	0.128	-17.4	105	0.00
66	c	n-Nitrosodiphenylamine	0.639	0.679	-6.3	104	0.00
67		4-Bromophenyl-phenylether	0.213	0.228	-7.0	103	0.00
68		Hexachlorobenzene	0.226	0.240	-6.2	105	0.00
69		Atrazine	0.177	0.184	-4.0	106	0.00
70	C	Pentachlorophenol	0.135	0.138	-2.2	95	0.00
71		Phenanthrene	1.007	1.002	0.5	99	0.00
72		Anthracene	1.047	1.029	1.7	98	0.00
73		Carbazole	0.959	0.974	-1.6	99	0.00
74		Di-n-butylphthalate	1.140	1.160	-1.8	98	0.00
75	C	Fluoranthene	1.088	1.150	-5.7	105	0.00
76	I	Chrysene-d12	1.000	1.000	0.0	110	0.00
77		Benzidine	0.476	0.476	0.0	103	0.00
78		Pyrene	1.861	1.860	0.1	105	0.00
79	S	Terphenyl-d14	1.243	1.214	2.3	106	0.00
80		Butylbenzylphthalate	0.698	0.670	4.0	103	0.00
81		Benzo(a)anthracene	1.387	1.353	2.5	108	0.00
82		3,3'-Dichlorobenzidine	0.439	0.407	7.3	105	0.00
83		Chrysene	1.343	1.254	6.6	104	0.00
84		Bis(2-ethylhexyl)phthalate	0.802	0.819	-2.1	110	0.00
85	c	Di-n-octyl phthalate	1.179	1.175	0.3	108	0.00
86	I	Perylene-d12	1.000	1.000	0.0	105	0.00
87		Indeno(1,2,3-cd)pyrene	1.388	1.523	-9.7	105	0.00
88		Benzo(b)fluoranthene	1.176	1.198	-1.9	106	0.00
89		Benzo(k)fluoranthene	1.197	1.162	2.9	105	0.00
90	C	Benzo(a)pyrene	1.137	1.144	-0.6	105	0.00
91		Dibenzo(a,h)anthracene	1.134	1.242	-9.5	105	0.00
92		Benzo(g,h,i)perylene	1.169	1.370	-17.2	113	0.00

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF062623\
Data File : BF133961.D
Acq On : 26 Jun 2023 19:56
Operator : CG\JU
Sample : SSTDICV040
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF062623

Quant Time: Jun 26 23:13:47 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF062623.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Jun 26 23:12:04 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev Area%	Dev(min)

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF062623\
Data File : BF133961.D
Acq On : 26 Jun 2023 19:56
Operator : CG\JU
Sample : SSTDICV040
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF062623

Quant Time: Jun 26 23:13:47 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF062623.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Jun 26 23:12:04 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	20.000	20.000	0.0	103	0.00
2		1,4-Dioxane	40.000	38.993	2.5	101	0.00
3		Pyridine	40.000	39.798	0.5	103	0.00
4		n-Nitrosodimethylamine	40.000	39.194	2.0	100	0.00
5	S	2-Fluorophenol	80.000	75.815	5.2	100	0.00
6		Aniline	40.000	40.792	-2.0	105	0.00
7	S	Phenol-d6	80.000	78.948	1.3	106	0.00
8		2-Chlorophenol	40.000	39.524	1.2	105	0.00
9		Benzaldehyde	40.000	40.892	-2.2	105	0.00
10	C	Phenol	40.000	39.919	0.2	106	0.00
11		bis(2-Chloroethyl)ether	40.000	39.884	0.3	105	0.00
12		1,3-Dichlorobenzene	40.000	38.970	2.6	103	0.00
13	C	1,4-Dichlorobenzene	40.000	39.145	2.1	102	0.00
14		1,2-Dichlorobenzene	40.000	39.622	0.9	107	0.00
15		Benzyl Alcohol	40.000	39.764	0.6	102	0.00
16		2,2'-oxybis(1-Chloropropane	40.000	40.367	-0.9	106	0.00
17		2-Methylphenol	40.000	40.082	-0.2	105	0.00
18		Hexachloroethane	40.000	39.796	0.5	103	0.00
19	P	n-Nitroso-di-n-propylamine	40.000	38.540	3.7	105	0.00
20		3+4-Methylphenols	40.000	39.166	2.1	104	0.00
21	I	Naphthalene-d8	20.000	20.000	0.0	104	0.00
22		Acetophenone	40.000	38.487	3.8	104	0.00
23	S	Nitrobenzene-d5	80.000	79.162	1.0	103	0.00
24		Nitrobenzene	40.000	39.827	0.4	103	0.00
25		Isophorone	40.000	39.044	2.4	104	0.00
26	C	2-Nitrophenol	40.000	41.408	-3.5	105	0.00
27		2,4-Dimethylphenol	40.000	39.557	1.1	103	0.00
28		bis(2-Chloroethoxy)methane	40.000	38.729	3.2	100	0.00
29	C	2,4-Dichlorophenol	40.000	39.298	1.8	102	0.00
30		1,2,4-Trichlorobenzene	40.000	39.130	2.2	102	0.00
31		Naphthalene	40.000	39.390	1.5	104	0.00
32		Benzoic acid	40.000	42.566	-6.4	103	0.00
33		4-Chloroaniline	40.000	39.388	1.5	102	0.00
34	C	Hexachlorobutadiene	40.000	38.700	3.2	101	0.00
35		Caprolactam	40.000	40.472	-1.2	104	0.00
36	C	4-Chloro-3-methylphenol	40.000	39.364	1.6	103	0.00
37		2-Methylnaphthalene	40.000	38.784	3.0	104	0.00
38		1-Methylnaphthalene	40.000	38.344	4.1	103	0.00
39	I	Acenaphthene-d10	20.000	20.000	0.0	104	0.00
40		1,2,4,5-Tetrachlorobenzene	40.000	40.405	-1.0	106	0.00
41	P	Hexachlorocyclopentadiene	40.000	41.576	-3.9	103	0.00
42	S	2,4,6-Tribromophenol	80.000	76.075	4.9	100	0.00
43	C	2,4,6-Trichlorophenol	40.000	39.181	2.0	101	0.00
44		2,4,5-Trichlorophenol	40.000	39.741	0.6	103	0.00
45	S	2-Fluorobiphenyl	80.000	76.435	4.5	103	0.00
46		1,1'-Biphenyl	40.000	39.480	1.3	104	0.00
47		2-Chloronaphthalene	40.000	39.183	2.0	103	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF062623\
Data File : BF133961.D
Acq On : 26 Jun 2023 19:56
Operator : CG\JU
Sample : SSTDICV040
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF062623

Quant Time: Jun 26 23:13:47 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF062623.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Jun 26 23:12:04 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
48		2-Nitroaniline	40.000	41.107	-2.8	106	0.00
49		Acenaphthylene	40.000	39.721	0.7	104	0.00
50		Dimethylphthalate	40.000	39.549	1.1	105	0.00
51		2,6-Dinitrotoluene	40.000	40.971	-2.4	105	0.00
52	C	Acenaphthene	40.000	39.555	1.1	105	0.00
53		3-Nitroaniline	40.000	41.045	-2.6	107	0.00
54	P	2,4-Dinitrophenol	40.000	40.967	-2.4	109	0.00
55		Dibenzofuran	40.000	39.614	1.0	104	0.00
56	P	4-Nitrophenol	40.000	42.614	-6.5	108	0.00
57		2,4-Dinitrotoluene	40.000	41.090	-2.7	106	0.00
58		Fluorene	40.000	39.551	1.1	106	0.00
59		2,3,4,6-Tetrachlorophenol	40.000	40.191	-0.5	106	0.00
60		Diethylphthalate	40.000	39.416	1.5	104	0.00
61		4-Chlorophenyl-phenylether	40.000	38.659	3.4	103	0.00
62		4-Nitroaniline	40.000	40.446	-1.1	105	0.00
63		Azobenzene	40.000	38.012	5.0	100	0.00
64	I	Phenanthrene-d10	20.000	20.000	0.0	96	0.00
65		4,6-Dinitro-2-methylphenol	40.000	46.994	-17.5	105	0.00
66	c	n-Nitrosodiphenylamine	40.000	42.514	-6.3	104	0.00
67		4-Bromophenyl-phenylether	40.000	42.887	-7.2	103	0.00
68		Hexachlorobenzene	40.000	42.547	-6.4	105	0.00
69		Atrazine	40.000	41.681	-4.2	106	0.00
70	C	Pentachlorophenol	40.000	40.954	-2.4	95	0.00
71		Phenanthrene	40.000	39.813	0.5	99	0.00
72		Anthracene	40.000	39.299	1.8	98	0.00
73		Carbazole	40.000	40.663	-1.7	99	0.00
74		Di-n-butylphthalate	40.000	40.723	-1.8	98	0.00
75	C	Fluoranthene	40.000	42.248	-5.6	105	0.00
76	I	Chrysene-d12	20.000	20.000	0.0	110	0.00
77		Benzidine	40.000	39.986	0.0	103	0.00
78		Pyrene	40.000	39.967	0.1	105	0.00
79	S	Terphenyl-d14	80.000	78.164	2.3	106	0.00
80		Butylbenzylphthalate	40.000	38.411	4.0	103	0.00
81		Benzo(a)anthracene	40.000	39.010	2.5	108	0.00
82		3,3'-Dichlorobenzidine	40.000	37.051	7.4	105	0.00
83		Chrysene	40.000	37.334	6.7	104	0.00
84		Bis(2-ethylhexyl)phthalate	40.000	40.866	-2.2	110	0.00
85	c	Di-n-octyl phthalate	40.000	39.870	0.3	108	0.00
86	I	Perylene-d12	20.000	20.000	0.0	105	0.00
87		Indeno(1,2,3-cd)pyrene	40.000	43.906	-9.8	105	0.00
88		Benzo(b)fluoranthene	40.000	40.759	-1.9	106	0.00
89		Benzo(k)fluoranthene	40.000	38.803	3.0	105	0.00
90	C	Benzo(a)pyrene	40.000	40.238	-0.6	105	0.00
91		Dibenzo(a,h)anthracene	40.000	43.836	-9.6	105	0.00
92		Benzo(g,h,i)perylene	40.000	46.885	-17.2	113	0.00

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF062623\
Data File : BF133961.D
Acq On : 26 Jun 2023 19:56
Operator : CG\JU
Sample : SSTDICV040
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF062623

Quant Time: Jun 26 23:13:47 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF062623.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Jun 26 23:12:04 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)

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

Response Factor Report BNA_F

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF072423.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Tue Jul 25 01:46:04 2023
Response Via : Initial Calibration

Calibration Files
2.5 =BF134427.D 5 =BF134428.D 10 =BF134429.D 20 =BF134430.D 40 =BF134431.D 50 =BF134432.D 60 =BF134433.D 80 =BF1344
34.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------	ISTD	----------							
2)		1,4-Dioxane		0.558	0.517	0.535	0.505	0.485	0.520	0.473	0.513	5.62
3)		Pyridine		0.951	1.128	1.205	1.226	1.192	1.221	1.144	1.153	8.34
4)		n-Nitrosodimet...		0.555	0.639	0.738	0.691	0.706	0.739	0.700	0.681	9.55
5)	S	2-Fluorophenol		1.153	1.231	1.311	1.266	1.166	1.221	1.126	1.211	5.46
6)		Aniline		1.728	1.863	1.890	1.789	1.672	1.719	1.575	1.748	6.26
7)	S	Phenol-d6		1.506	1.570	1.615	1.483	1.407	1.456	1.345	1.483	6.22
8)		2-Chlorophenol		1.265	1.281	1.316	1.252	1.162	1.201	1.107	1.226	5.97
9)		Benzaldehyde			0.931	0.895	0.749	0.705	0.690		0.794	14.01
10)	C	Phenol		1.606	1.569	1.663	1.568	1.457	1.533	1.406	1.543	5.68
11)		bis(2-Chloroet...		1.187	1.110	1.091	1.067	1.005	1.089	0.992	1.077	6.13
12)		1,3-Dichlorobe...		1.332	1.353	1.431	1.369	1.240	1.310	1.194	1.319	6.05
13)	C	1,4-Dichlorobe...		1.482	1.400	1.450	1.386	1.245	1.323	1.214	1.357	7.44
14)		1,2-Dichlorobe...		1.367	1.339	1.379	1.270	1.184	1.251	1.134	1.275	7.31
15)		Benzyl Alcohol		1.109	1.122	1.242	1.217	1.109	1.163	1.055	1.145	5.77
16)		2,2'-oxybis(1-...		1.635	1.692	1.667	1.590	1.514	1.579	1.428	1.586	5.77
17)		2-Methylphenol		1.209	1.112	1.159	1.122	1.017	1.062	0.974	1.094	7.47
18)		Hexachloroethane		0.544	0.559	0.561	0.518	0.488	0.511	0.468	0.521	6.80
19)	P	n-Nitroso-di-n...	1.030	0.926	0.966	0.980	0.928	0.855	0.886	0.816	0.923	7.54
20)		3+4-Methylphenols		1.477	1.518	1.508	1.423	1.294	1.337	1.245	1.400	7.79
21)	I	Naphthalene-d8	----------	ISTD	----------							
22)		Acetophenone		0.503	0.522	0.518	0.503	0.476	0.490	0.470	0.497	4.00
23)	S	Nitrobenzene-d5		0.383	0.396	0.407	0.404	0.388	0.401	0.389	0.395	2.30
24)		Nitrobenzene		0.398	0.390	0.403	0.392	0.385	0.401	0.383	0.393	1.96
25)		Isophorone		0.657	0.670	0.674	0.668	0.644	0.662	0.637	0.659	2.11
26)	C	2-Nitrophenol		0.165	0.180	0.190	0.186	0.181	0.185	0.178	0.181	4.35
27)		2,4-Dimethylph...		0.281	0.293	0.298	0.288	0.277	0.281	0.279	0.285	2.72
28)		bis(2-Chloroet...		0.363	0.370	0.379	0.368	0.362	0.371	0.353	0.367	2.27
29)	C	2,4-Dichloroph...		0.284	0.293	0.291	0.292	0.277	0.286	0.274	0.285	2.62
30)		1,2,4-Trichlor...		0.314	0.317	0.312	0.315	0.298	0.306	0.293	0.308	3.04
31)		Naphthalene		0.988	1.042	1.028	1.011	0.951	0.996	0.952	0.995	3.53
32)		Benzoic acid		0.150	0.168	0.197	0.203	0.191	0.211	0.214	0.191	12.36
33)		4-Chloroaniline		0.414	0.417	0.431	0.422	0.394	0.403	0.399	0.411	3.19
34)	C	Hexachlorobuta...		0.204	0.215	0.218	0.212	0.197	0.204	0.193	0.206	4.45
35)		Caprolactam		0.080	0.092	0.086	0.091	0.086	0.089	0.086	0.087	4.47
36)	C	4-Chloro-3-met...		0.327	0.336	0.331	0.336	0.322	0.332	0.319	0.329	1.98
37)		2-Methylnaphth...		0.722	0.711	0.716	0.702	0.660	0.681	0.651	0.692	4.06
38)		1-Methylnaphth...		0.671	0.644	0.673	0.650	0.620	0.632	0.601	0.642	4.10

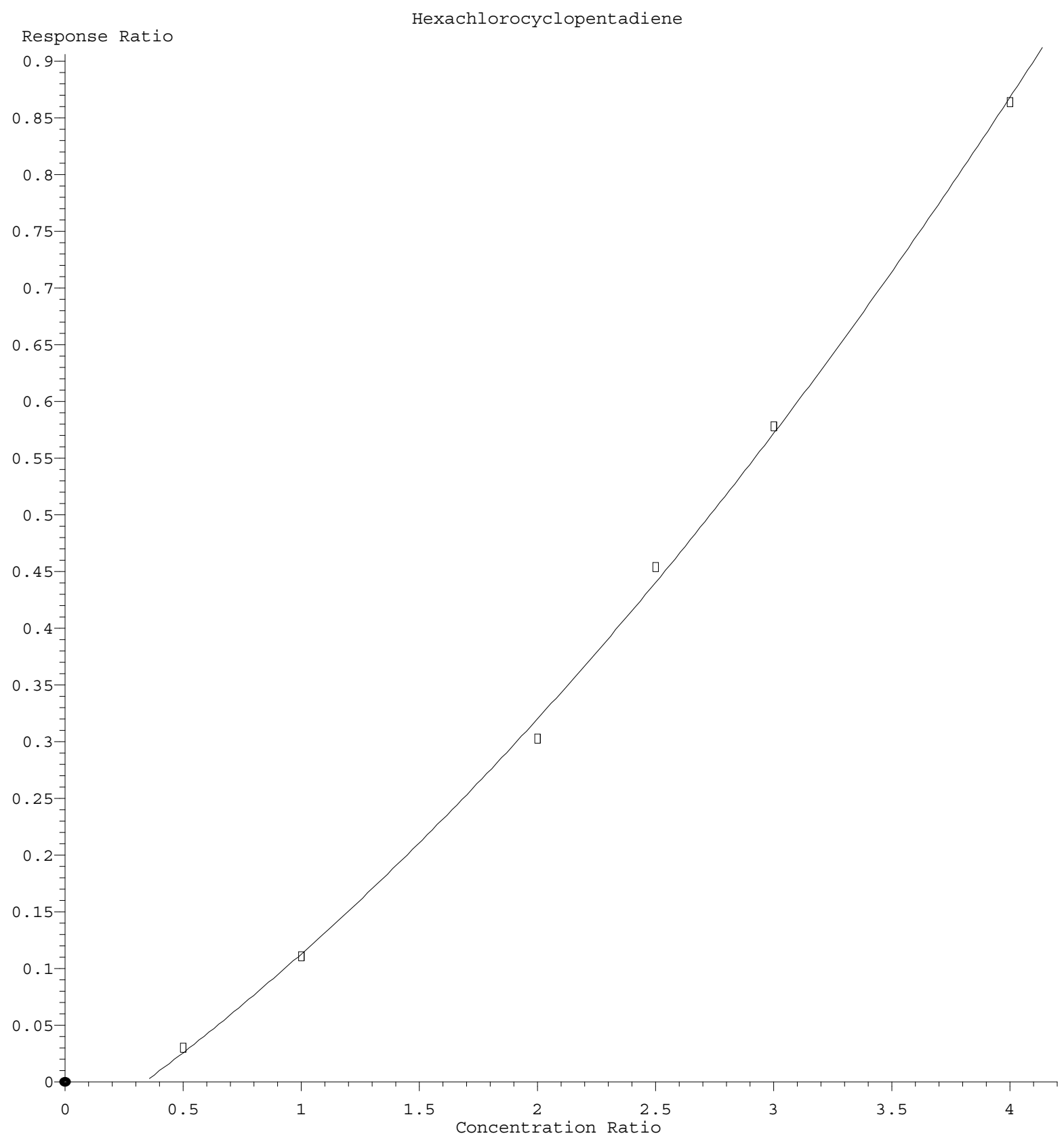
Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF072423.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.655	0.661	0.654	0.582	0.614	0.652	0.620	0.634	4.61
41)	P	Hexachlorocycl...		0.060	0.111	0.151	0.182	0.193	0.216	0.152	38.06
42)	S	2,4,6-Tribromo...	0.274	0.274	0.300	0.293	0.277	0.292	0.279	0.284	3.78
43)	C	2,4,6-Trichlor...	0.404	0.409	0.420	0.417	0.389	0.410	0.398	0.407	2.64
44)		2,4,5-Trichlor...	0.459	0.452	0.503	0.492	0.454	0.488	0.469	0.474	4.34
45)	S	2-Fluorobiphenyl	1.576	1.594	1.604	1.555	1.427	1.499	1.408	1.523	5.26
46)		1,1'-Biphenyl	1.667	1.679	1.735	1.681	1.559	1.642	1.576	1.648	3.77
47)		2-Chloronaphth...	1.231	1.248	1.258	1.234	1.144	1.221	1.170	1.215	3.47
48)		2-Nitroaniline	0.408	0.418	0.441	0.461	0.430	0.460	0.445	0.438	4.66
49)		Acenaphthylene	2.042	2.114	2.151	2.112	1.923	2.074	1.955	2.053	4.17
50)		Dimethylphthalate	1.433	1.488	1.541	1.523	1.429	1.511	1.453	1.483	3.03
51)		2,6-Dinitrotol...	0.326	0.316	0.332	0.339	0.308	0.335	0.321	0.325	3.36
52)	C	Acenaphthene	1.250	1.200	1.264	1.249	1.146	1.216	1.164	1.213	3.74
53)		3-Nitroaniline	0.343	0.375	0.402	0.386	0.364	0.376	0.364	0.373	4.95
54)	P	2,4-Dinitrophenol		0.089	0.122	0.149	0.158	0.167	0.173	0.143	22.41
55)		Dibenzofuran	1.892	1.872	1.997	1.910	1.769	1.872	1.755	1.867	4.46
56)	P	4-Nitrophenol		0.153	0.189	0.205	0.208	0.222	0.217	0.199	12.63
57)		2,4-Dinitrotol...	0.419	0.422	0.451	0.461	0.423	0.455	0.428	0.437	4.09
58)		Fluorene	1.504	1.530	1.563	1.546	1.440	1.513	1.444	1.506	3.17
59)		2,3,4,6-Tetrac...	0.378	0.349	0.356	0.374	0.353	0.376	0.361	0.364	3.33
60)		Diethylphthalate	1.552	1.545	1.581	1.560	1.465	1.564	1.478	1.535	2.92
61)		4-Chlorophenyl...	0.726	0.714	0.765	0.742	0.688	0.716	0.683	0.719	4.03
62)		4-Nitroaniline	0.342	0.370	0.399	0.402	0.378	0.399	0.389	0.383	5.64
63)		Azobenzene	1.426	1.396	1.444	1.442	1.364	1.442	1.376	1.413	2.40
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.095	0.113	0.121	0.116	0.123	0.120	0.115	9.04
66)	c	n-Nitrosodiphe...	0.650	0.657	0.662	0.653	0.605	0.626	0.601	0.636	4.00
67)		4-Bromophenyl-...	0.228	0.221	0.229	0.222	0.210	0.217	0.207	0.219	3.92
68)		Hexachlorobenzene	0.248	0.259	0.258	0.250	0.237	0.242	0.233	0.247	4.03
69)		Atrazine	0.190	0.190	0.187	0.186	0.167	0.166	0.156	0.177	7.85
70)	C	Pentachlorophenol		0.090	0.096	0.108	0.103	0.113	0.112	0.104	8.86
71)		Phenanthrene	1.030	1.104	1.101	1.069	1.006	1.025	0.981	1.045	4.54
72)		Anthracene	1.044	1.134	1.119	1.111	1.047	1.076	1.019	1.079	4.05
73)		Carbazole	1.002	1.050	1.057	1.031	0.989	1.017	0.964	1.016	3.28
74)		Di-n-butylphth...	1.180	1.197	1.205	1.197	1.140	1.154	1.089	1.166	3.58
75)	C	Fluoranthene	1.267	1.261	1.256	1.229	1.176	1.200	1.135	1.218	4.08
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine		0.495	0.435	0.439	0.431	0.370	0.393	0.427	10.07
78)		Pyrene	1.521	1.515	1.603	1.594	1.606	1.648	1.645	1.590	3.36
79)	S	Terphenyl-d14	1.100	1.119	1.166	1.147	1.144	1.181	1.162	1.146	2.44
80)		Butylbenzylpht...	0.604	0.602	0.646	0.653	0.652	0.666	0.636	0.637	3.87
81)		Benzo(a)anthra...	1.435	1.405	1.450	1.381	1.361	1.406	1.329	1.395	3.00
82)		3,3'-Dichlorob...	0.467	0.459	0.484	0.441	0.426	0.422	0.395	0.442	6.88
83)		Chrysene	1.353	1.335	1.428	1.347	1.315	1.302	1.262	1.335	3.85
84)		Bis(2-ethylhex...	0.778	0.736	0.800	0.788	0.793	0.787	0.735	0.774	3.52
85)	c	Di-n-octyl pht...	1.079	1.076	1.083	1.092	1.072	1.086	1.040	1.075	1.59

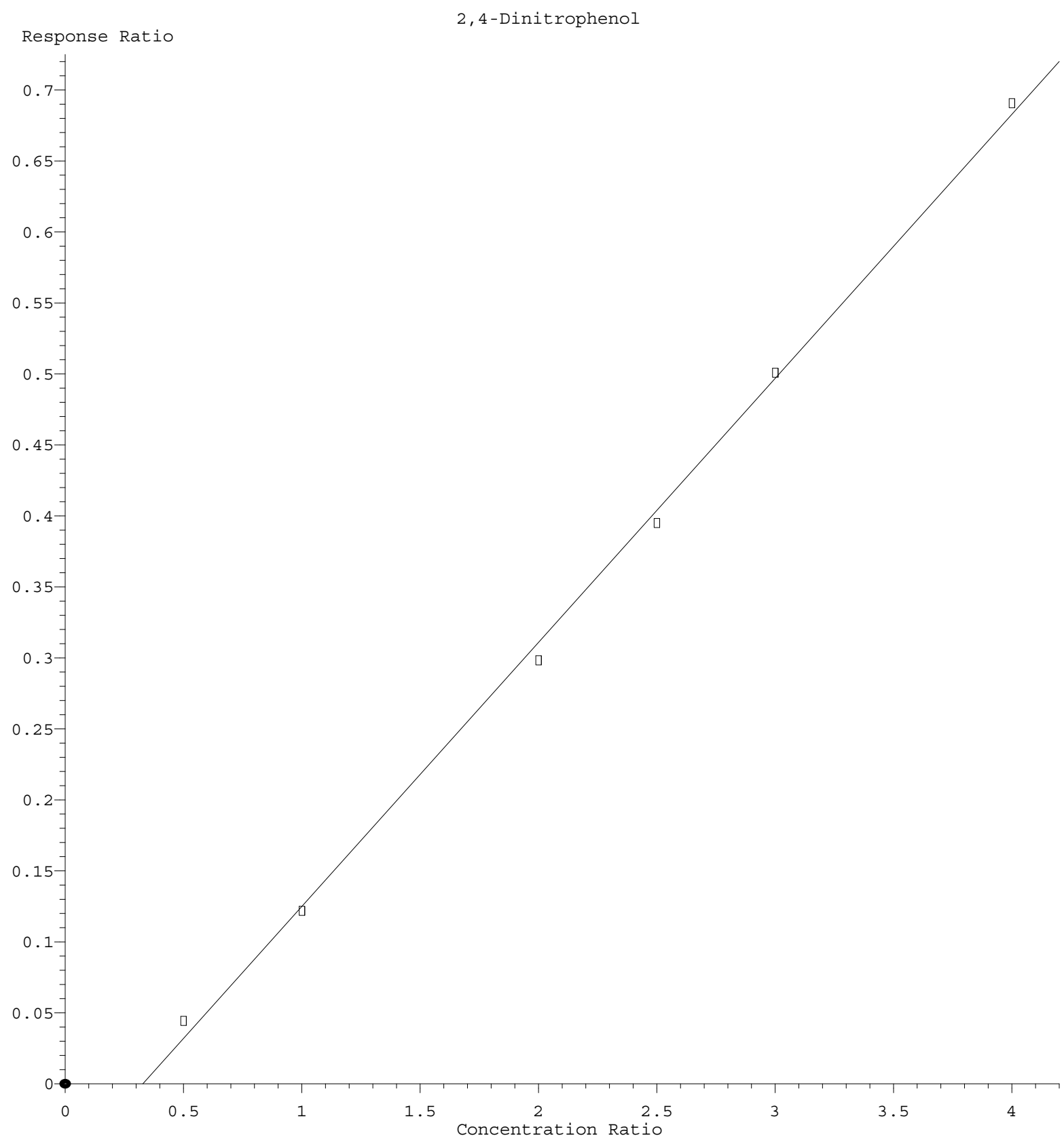
Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF072423.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.101	1.114	1.222	1.371	1.370	1.490	1.477	1.307	12.40
88)		Benzo(b)fluora...	1.244	1.340	1.312	1.216	1.214	1.275	1.156	1.251	5.03
89)		Benzo(k)fluora...	1.229	1.240	1.329	1.284	1.158	1.216	1.158	1.230	5.07
90)	C	Benzo(a)pyrene	1.128	1.172	1.197	1.172	1.136	1.171	1.119	1.157	2.48
91)		Dibenzo(a,h)an...	0.909	0.869	0.992	1.100	1.109	1.211	1.197	1.055	12.80
92)		Benzo(g,h,i)pe...	0.878	0.887	1.045	1.125	1.152	1.255	1.243	1.083	14.30

(#) = Out of Range



R = 2.221e-002 A*A + 1.407e-001 A - 5.007e-002
Coef of Det (r^2) = 0.998824 Curve Fit: Quadratic
Method: \\chemsrv\HPCHEM1\MSVOA_Group1\chemsrv\HPCHEM1\BNA F\Methods\8270-BF072423.M
Calibration Table Last Updated: Tue Jul 25 01:46:04 2023



Response = 1.859e-001 * Amt - 6.107e-002
Coef of Det (r^2) = 0.998349 Curve Fit: Linear
Method: \\chemsrv\HPCHEM1\MSVOA_Group1\chemsrv\HPCHEM1\BNA F\Methods\8270-BF072423.M
Calibration Table Last Updated: Tue Jul 25 01:46:04 2023

Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF072423\
Data File : BF134427.D
Acq On : 24 Jul 2023 13:46
Operator : CG\JU
Sample : SSTDICC2.5
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Quant Time: Jul 25 00:59:33 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF072423.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 25 00:58:12 2023
Response via : Initial Calibration

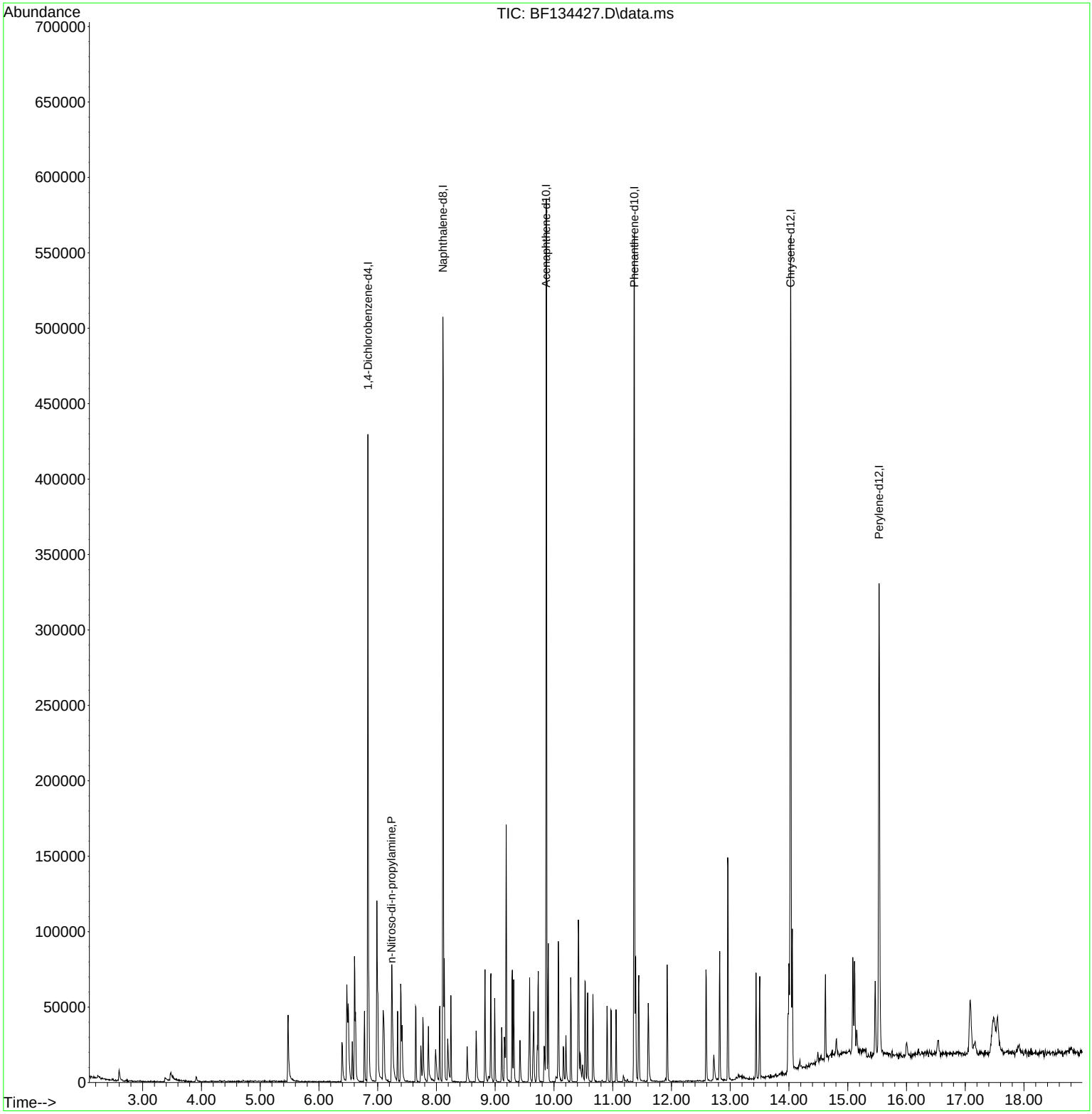
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.834	152	56479	20.000	ng	0.00
21) Naphthalene-d8	8.110	136	218517	20.000	ng	# 0.00
39) Acenaphthene-d10	9.869	164	111080	20.000	ng	0.00
64) Phenanthrene-d10	11.369	188	221593	20.000	ng	0.00
76) Chrysene-d12	14.027	240	182727	20.000	ng	0.00
86) Perylene-d12	15.533	264	158010	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0d	0.000	ng	
7) Phenol-d6	0.000	99	0d	0.000	ng	
23) Nitrobenzene-d5	0.000	82	0d	0.000	ng	
42) 2,4,6-Tribromophenol	0.000	330	0d	0.000	ng	
45) 2-Fluorobiphenyl	0.000	172	0d	0.000	ng	
79) Terphenyl-d14	0.000	244	0d	0.000	ng	
Target Compounds						Qvalue
19) n-Nitroso-di-n-propyla...	7.234	70	7269	2.788	ng	96

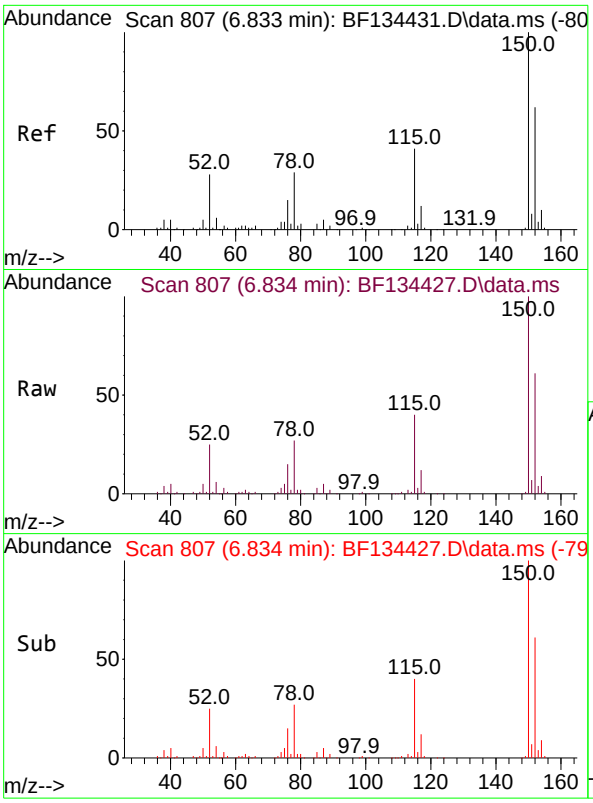
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF072423\
Data File : BF134427.D
Acq On : 24 Jul 2023 13:46
Operator : CG\JU
Sample : SSTDICC2.5
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Quant Time: Jul 25 00:59:33 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF072423.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 25 00:58:12 2023
Response via : Initial Calibration



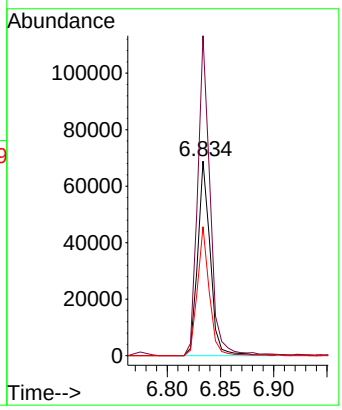


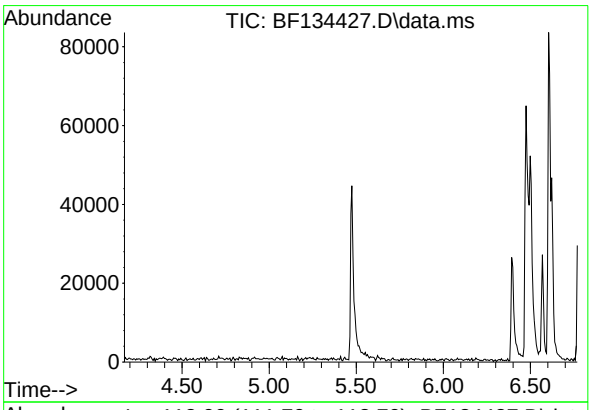
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.834 min Scan# 8
Delta R.T. 0.001 min
Lab File: BF134427.D
Acq: 24 Jul 2023 13:46

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion:152 Resp: 56479

Ion	Ratio	Lower	Upper
152	100		
150	164.5	128.3	192.5
115	66.3	52.4	78.6



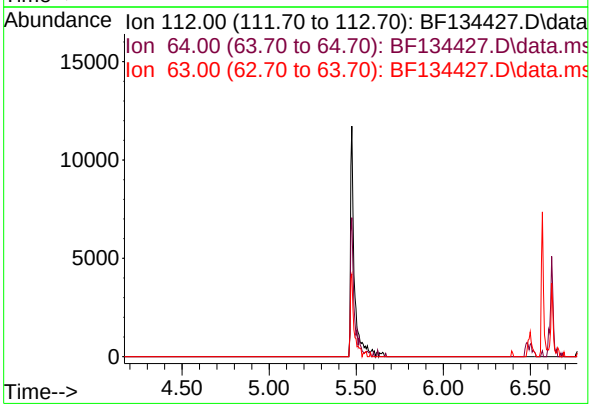


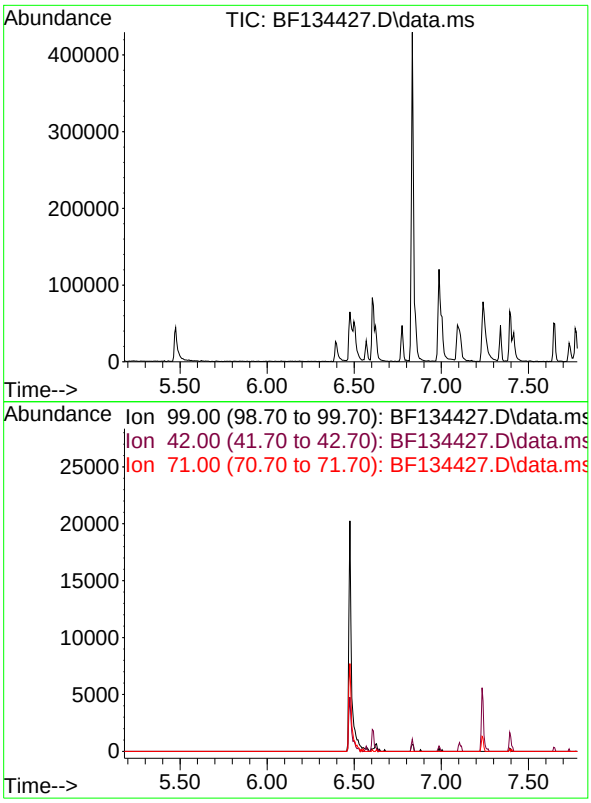
#5
2-Fluorophenol
Concen: 0.000 ng
Expected RT: 5.47 min

Lab File: BF134427.D
Acq: 24 Jul 2023 13:46

Tgt Ion: 112

Sig	Exp Ratio
112	100
64	56.1
63	31.7





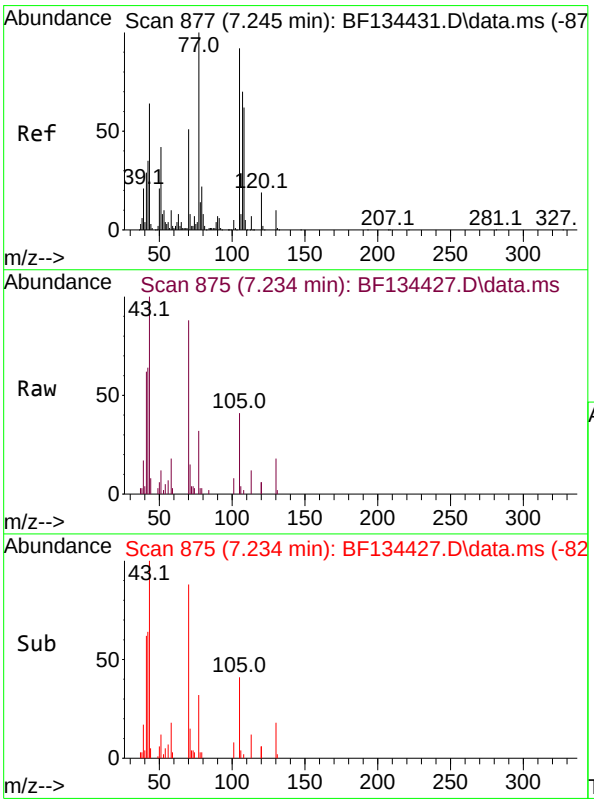
#7
Phenol-d6
Concen: 0.000 ng
Expected RT: 6.48 min

Lab File: BF134427.D
Acq: 24 Jul 2023 13:46

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion: 99

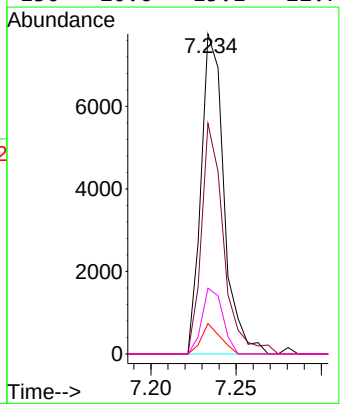
Sig	Exp Ratio
99	100
42	23.4
71	45.5

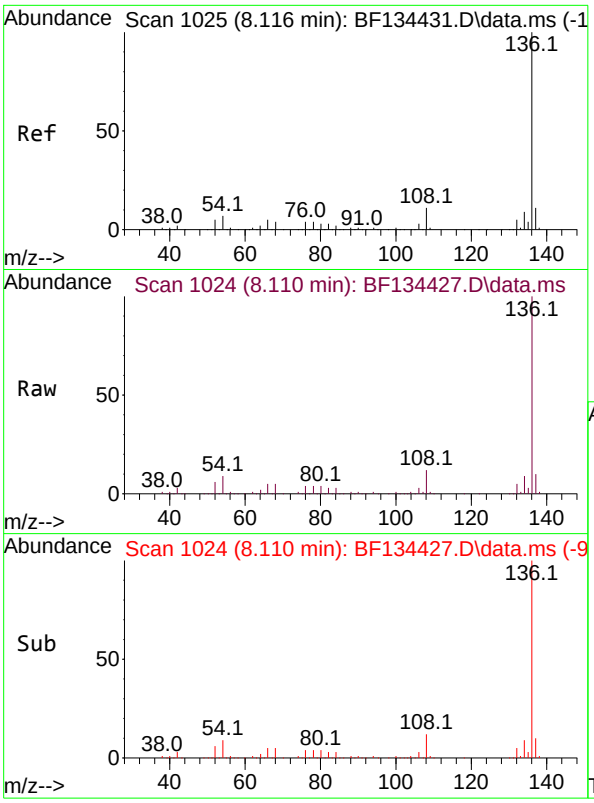


#19
n-Nitroso-di-n-propylamine
Concen: 2.788 ng
RT: 7.234 min Scan# 875
Delta R.T. -0.012 min
Lab File: BF134427.D
Acq: 24 Jul 2023 13:46

Tgt Ion: 70 Resp: 7269

Ion	Ratio	Lower	Upper
70	100		
42	72.0	54.7	82.1
101	9.5	8.2	12.2
130	20.6	15.1	22.7



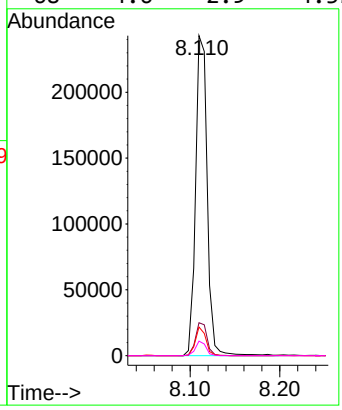


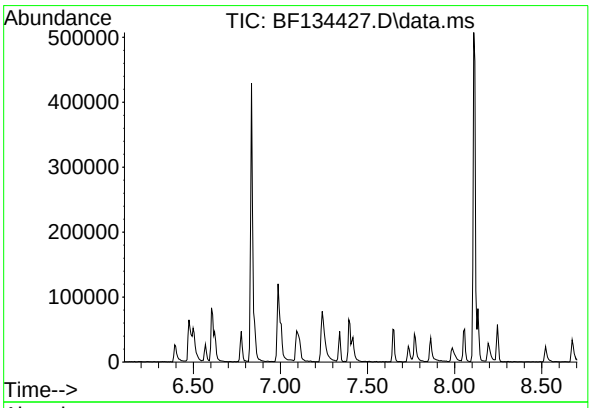
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.110 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF134427.D
Acq: 24 Jul 2023 13:46

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion:136 Resp: 218517

Ion	Ratio	Lower	Upper
136	100		
137	10.3	8.4	12.6
54	9.0	5.2	7.8#
68	4.6	2.9	4.3#



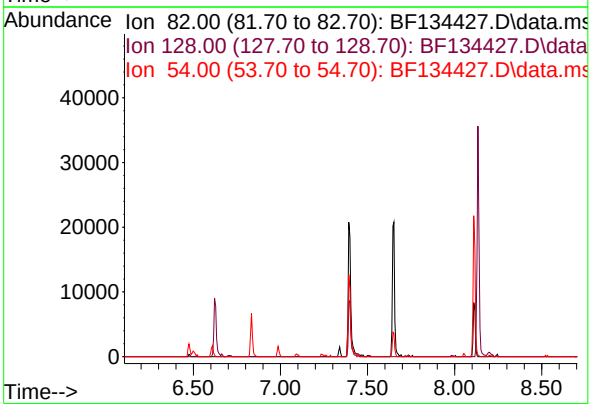


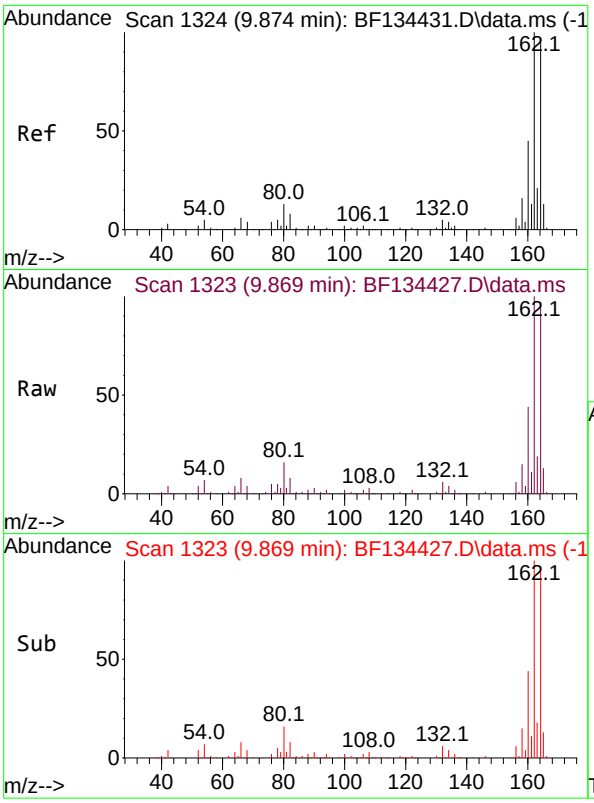
#23
Nitrobenzene-d5
Concen: 0.000 ng
Expected RT: 7.40 min

Lab File: BF134427.D
Acq: 24 Jul 2023 13:46

Tgt Ion: 82

Sig	Exp Ratio
82	100
128	42.9
54	54.7



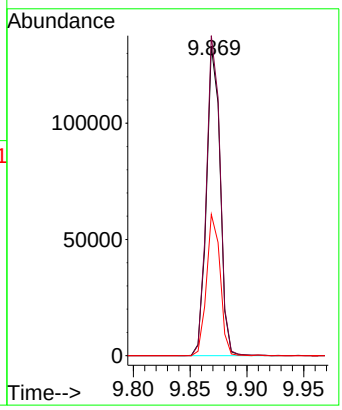


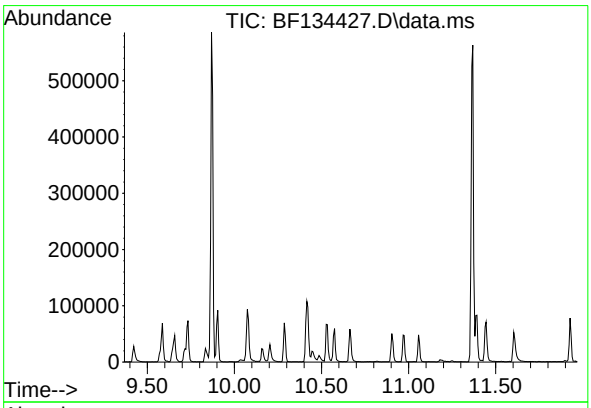
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.869 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF134427.D
Acq: 24 Jul 2023 13:46

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion:164 Resp: 111080

Ion	Ratio	Lower	Upper
164	100		
162	103.4	82.6	123.8
160	45.6	37.2	55.8



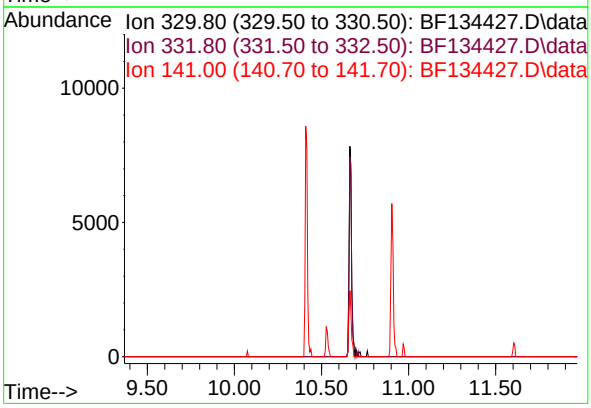


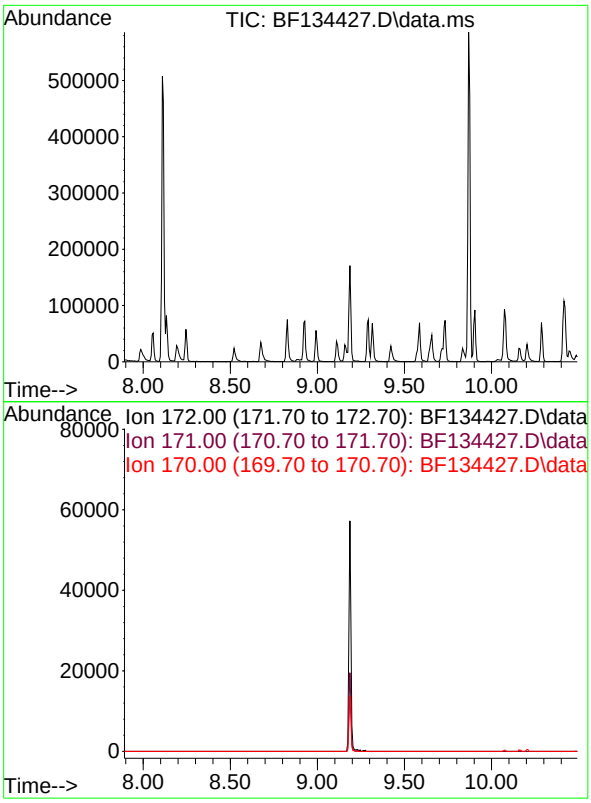
#42
2,4,6-Tribromophenol
Concen: 0.000 ng
Expected RT: 10.67 min

Lab File: BF134427.D
Acq: 24 Jul 2023 13:46

Tgt Ion: 330

Sig	Exp Ratio
330	100
332	98.5
141	31.8





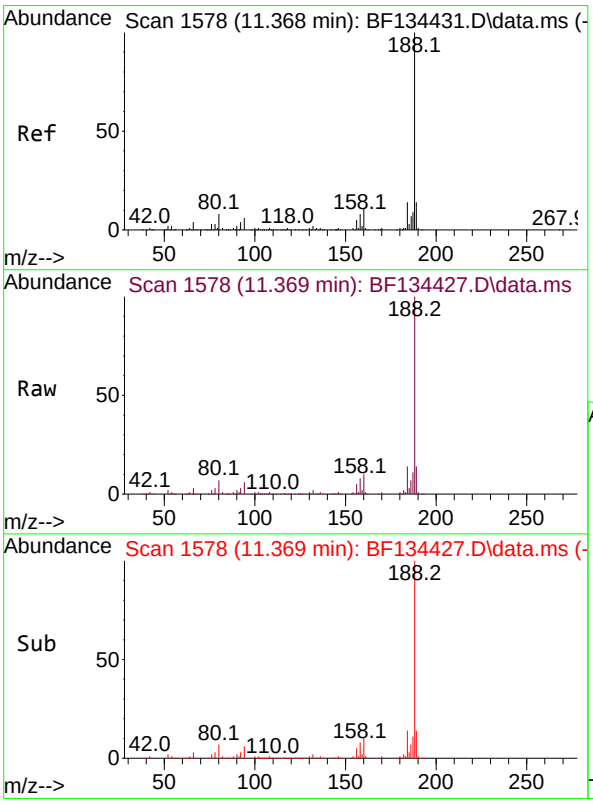
#45
2-Fluorobiphenyl
Concen: 0.000 ng
Expected RT: 9.19 min

Lab File: BF134427.D
Acq: 24 Jul 2023 13:46

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion: 172

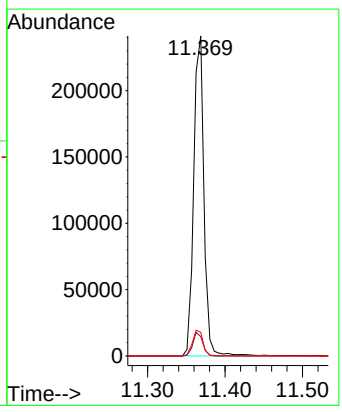
Sig	Exp Ratio
172	100
171	36.0
170	23.4

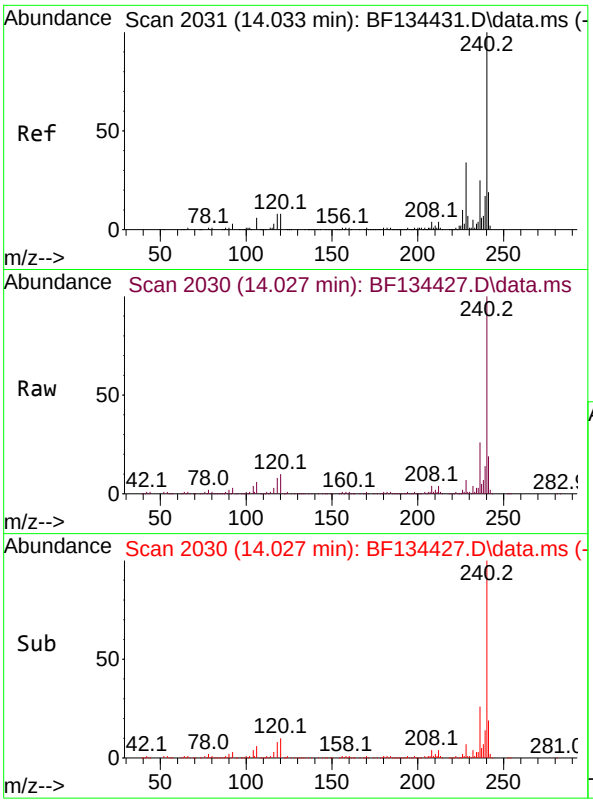


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.369 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BF134427.D
Acq: 24 Jul 2023 13:46

Tgt Ion:188 Resp: 221593

Ion	Ratio	Lower	Upper
188	100		
94	6.0	5.1	7.7
80	7.4	6.6	9.8



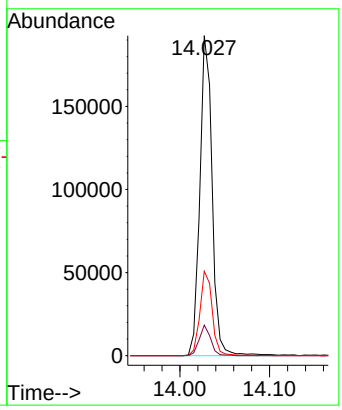


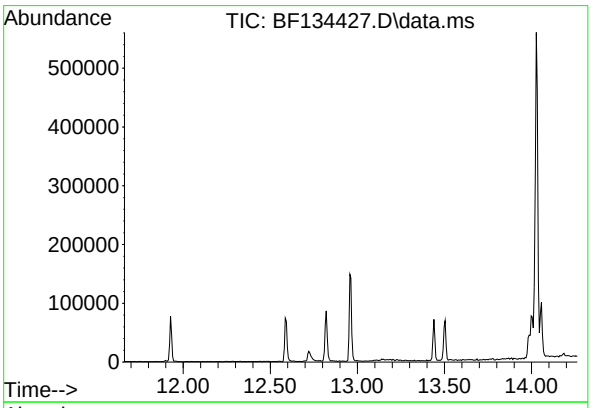
#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.027 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF134427.D
Acq: 24 Jul 2023 13:46

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion:240 Resp: 182727

Ion	Ratio	Lower	Upper
240	100		
120	9.5	6.6	10.0
236	26.4	20.2	30.2



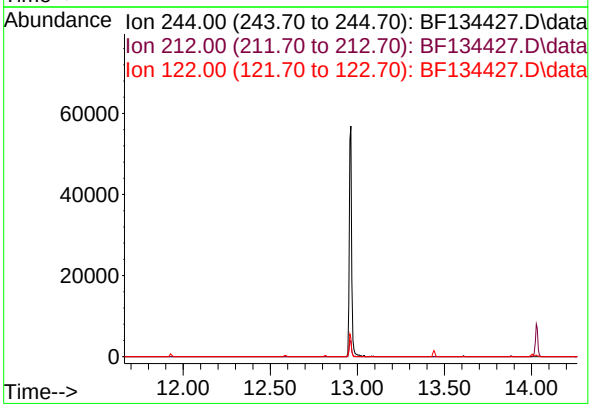


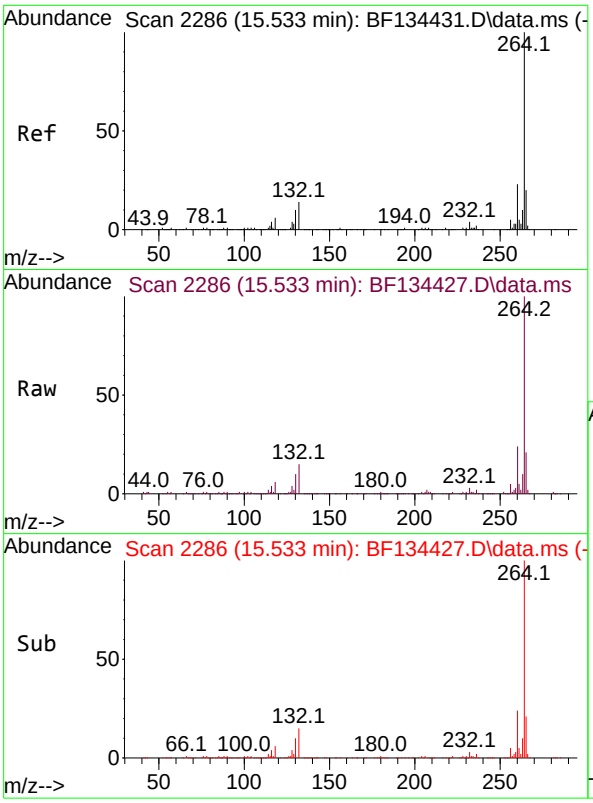
#79
Terphenyl-d14
Concen: 0.000 ng
Expected RT: 12.96 min

Lab File: BF134427.D
Acq: 24 Jul 2023 13:46

Tgt Ion: 244

Sig	Exp Ratio
244	100
212	7.0
122	10.0



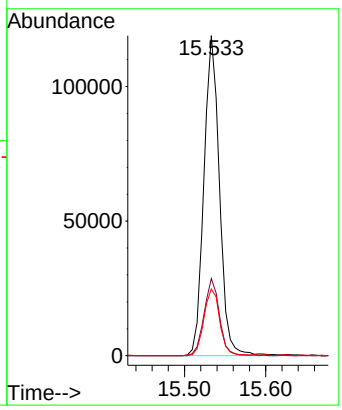


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.533 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF134427.D
Acq: 24 Jul 2023 13:46

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion:264 Resp: 158010

Ion	Ratio	Lower	Upper
264	100		
260	24.1	18.4	27.6
265	20.9	15.8	23.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF072423\
Data File : BF134428.D
Acq On : 24 Jul 2023 14:19
Operator : CG\JU
Sample : SSTDICC005
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 25 01:00:08 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF072423.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 25 00:58:12 2023
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.834	152	47227	20.000	ng		0.00
21) Naphthalene-d8	8.110	136	178040	20.000	ng		0.00
39) Acenaphthene-d10	9.869	164	89675	20.000	ng		0.00
64) Phenanthrene-d10	11.369	188	179888	20.000	ng		0.00
76) Chrysene-d12	14.027	240	150240	20.000	ng		0.00
86) Perylene-d12	15.533	264	149300	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.469	112	27217	9.522	ng		0.00
7) Phenol-d6	6.469	99	35566	10.155	ng		-0.01
23) Nitrobenzene-d5	7.392	82	34087	9.687	ng		-0.01
42) 2,4,6-Tribromophenol	10.663	330	12284	9.641	ng		0.00
45) 2-Fluorobiphenyl	9.186	172	70669	10.346	ng		0.00
79) Terphenyl-d14	12.963	244	82669	9.605	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.593	88	6586	5.432	ng		95
3) Pyridine	3.440	79	11233m	4.242	ng		
4) n-Nitrosodimethylamine	3.352	42	6549m	4.141	ng		
6) Aniline	6.498	93	20400	4.942	ng	#	77
8) 2-Chlorophenol	6.622	128	14932	5.156	ng		98
10) Phenol	6.487	94	18966	5.205	ng		93
11) bis(2-Chloroethyl)ether	6.569	93	14018	5.511	ng		91
12) 1,3-Dichlorobenzene	6.775	146	15730	5.051	ng		95
13) 1,4-Dichlorobenzene	6.851	146	17501	5.461	ng		96
14) 1,2-Dichlorobenzene	7.004	146	16138	5.361	ng		97
15) Benzyl Alcohol	6.981	79	13090	4.889	ng		90
16) 2,2'-oxybis(1-Chloropr...	7.104	45	19302	5.153	ng		89
17) 2-Methylphenol	7.092	107	14278	5.529	ng		96
18) Hexachloroethane	7.340	117	6422	5.216	ng		94
19) n-Nitroso-di-n-propyla...	7.234	70	10934	5.015	ng		97
20) 3+4-Methylphenols	7.245	107	17435	5.273	ng		94
22) Acetophenone	7.240	105	22371	5.052	ng	#	87
24) Nitrobenzene	7.416	77	17714	5.062	ng		98
25) Isophorone	7.651	82	29223	4.983	ng		98
26) 2-Nitrophenol	7.734	139	7357	4.571	ng		99
27) 2,4-Dimethylphenol	7.769	122	12525	4.931	ng		93
28) bis(2-Chloroethoxy)met...	7.863	93	16167	4.953	ng		96
29) 2,4-Dichlorophenol	7.981	162	12633	4.975	ng		94
30) 1,2,4-Trichlorobenzene	8.057	180	13966	5.099	ng		98
31) Naphthalene	8.134	128	43975	4.963	ng		99
32) Benzoic acid	7.863	122	6679m	4.082	ng		
33) 4-Chloroaniline	8.192	127	18429	5.032	ng		96
34) Hexachlorobutadiene	8.245	225	9099	4.959	ng		90
35) Caprolactam	8.528	113	3563	4.581	ng	#	78
36) 4-Chloro-3-methylphenol	8.675	107	14569	4.972	ng		99
37) 2-Methylnaphthalene	8.828	142	32114	5.216	ng		98
38) 1-Methylnaphthalene	8.922	142	29855	5.227	ng		99
40) 1,2,4,5-Tetrachloroben...	8.992	216	14674	5.164	ng		97
43) 2,4,6-Trichlorophenol	9.110	196	9059	4.969	ng		96
44) 2,4,5-Trichlorophenol	9.157	196	10286	4.843	ng		95
46) 1,1'-Biphenyl	9.292	154	37382	5.058	ng		98

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF072423\
Data File : BF134428.D
Acq On : 24 Jul 2023 14:19
Operator : CG\JU
Sample : SSTDICC005
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

Quant Time: Jul 25 01:00:08 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF072423.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 25 00:58:12 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
47) 2-Chloronaphthalene	9.316	162	27597	5.065	ng		99
48) 2-Nitroaniline	9.422	65	9141	4.658	ng		95
49) Acenaphthylene	9.733	152	45788	4.974	ng		97
50) Dimethylphthalate	9.586	163	32123	4.832	ng		97
51) 2,6-Dinitrotoluene	9.657	165	7302	5.006	ng		96
52) Acenaphthene	9.904	154	28021	5.153	ng		99
53) 3-Nitroaniline	9.833	138	7696	4.602	ng	#	90
55) Dibenzofuran	10.075	168	42412	5.068	ng		98
57) 2,4-Dinitrotoluene	10.069	165	9389	4.792	ng	#	97
58) Fluorene	10.422	166	33722	4.995	ng	#	98
59) 2,3,4,6-Tetrachlorophenol	10.204	232	8481	5.200	ng		97
60) Diethylphthalate	10.286	149	34792	5.055	ng		98
61) 4-Chlorophenyl-phenyle...	10.416	204	16273	5.045	ng		97
62) 4-Nitroaniline	10.445	138	7659	4.570	ng		89
63) Azobenzene	10.575	77	31964	5.046	ng		97
66) n-Nitrosodiphenylamine	10.533	169	29223	5.106	ng		97
67) 4-Bromophenyl-phenylether	10.904	248	10245	5.198	ng		92
68) Hexachlorobenzene	10.975	284	11149	5.023	ng		93
69) Atrazine	11.057	200	8528	5.345	ng		93
71) Phenanthrene	11.392	178	46313	4.928	ng		98
72) Anthracene	11.445	178	46973	4.842	ng		98
73) Carbazole	11.604	167	45072	4.934	ng		97
74) Di-n-butylphthalate	11.927	149	53069	5.061	ng		99
75) Fluoranthene	12.586	202	56980	5.202	ng		99
78) Pyrene	12.822	202	57131	4.782	ng		98
80) Butylbenzylphthalate	13.439	149	22692	4.742	ng		98
81) Benzo(a)anthracene	14.021	228	53902	5.142	ng		99
82) 3,3'-Dichlorobenzidine	13.980	252	17524	5.278	ng		98
83) Chrysene	14.057	228	50825	5.069	ng		99
84) Bis(2-ethylhexyl)phtha...	14.004	149	29207	5.024	ng		97
85) Di-n-octyl phthalate	14.621	149	40509	5.014	ng	#	99
87) Indeno(1,2,3-cd)pyrene	17.080	276	41084	4.212	ng		97
88) Benzo(b)fluoranthene	15.086	252	46449	4.973	ng		98
89) Benzo(k)fluoranthene	15.115	252	45855	4.995	ng		95
90) Benzo(a)pyrene	15.468	252	42109	4.877	ng	#	93
91) Dibenzo(a,h)anthracene	17.092	278	33930	4.307	ng		97
92) Benzo(g,h,i)perylene	17.551	276	32757	4.050	ng		99

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

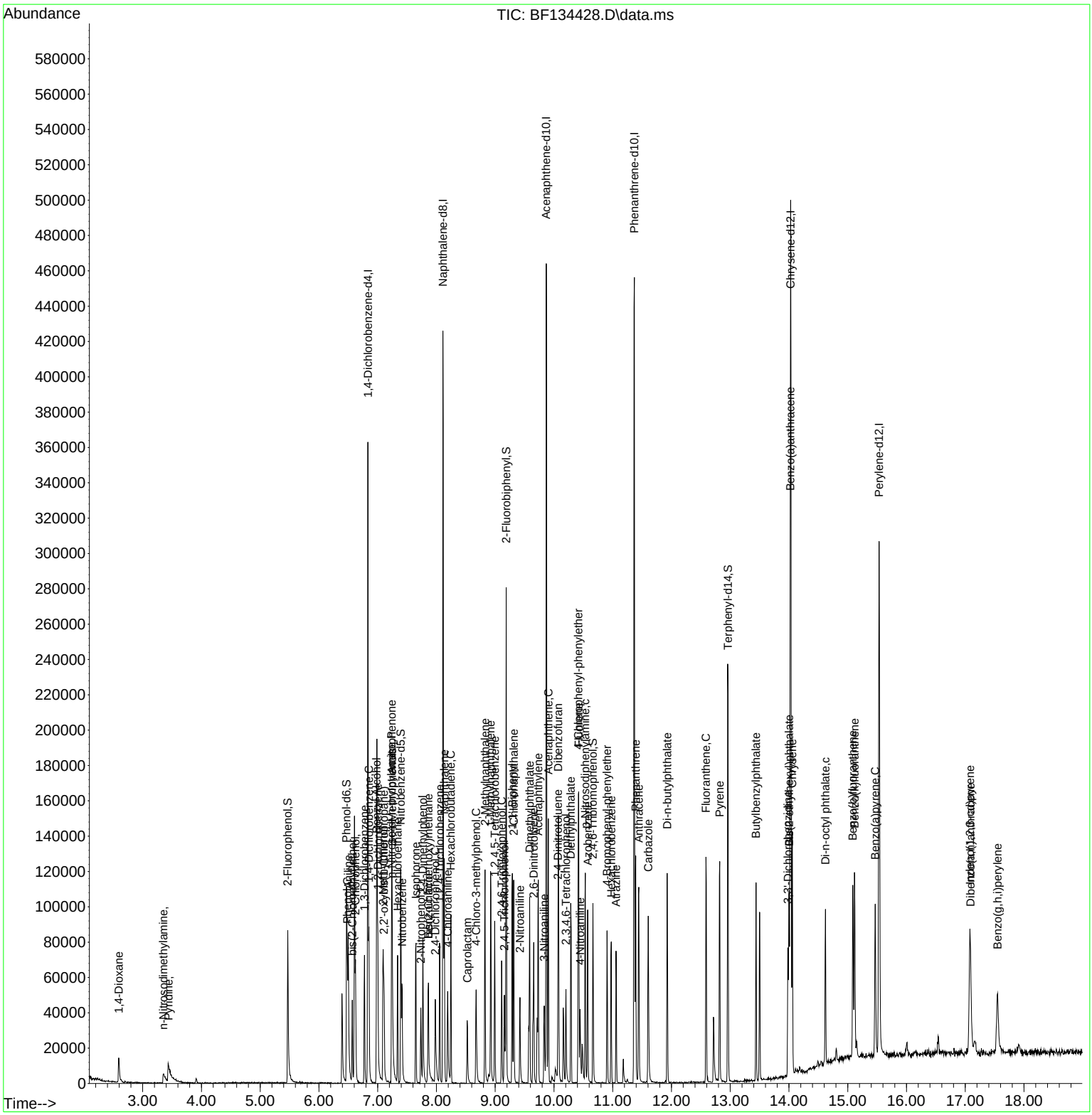
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF072423\
Data File : BF134428.D
Acq On : 24 Jul 2023 14:19
Operator : CG\JU
Sample : SSTDICC005
Misc :
ALS Vial : 4 Sample Multiplier: 1

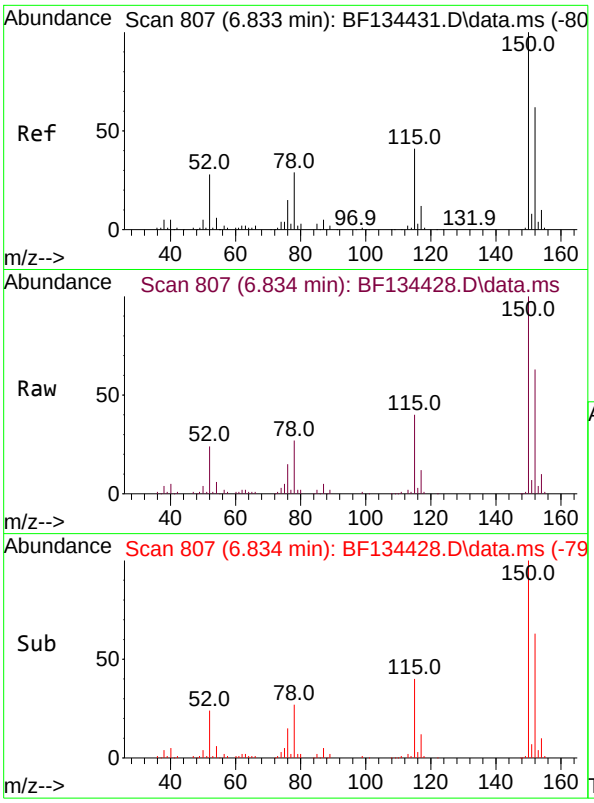
Quant Time: Jul 25 01:00:08 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF072423.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 25 00:58:12 2023
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

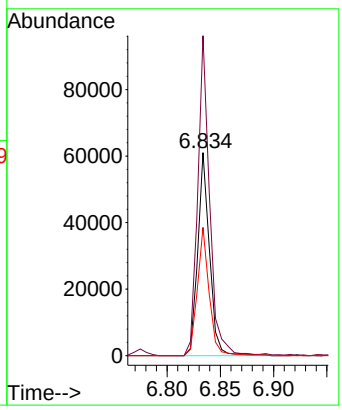




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.834 min Scan# 8
Delta R.T. 0.001 min
Lab File: BF134428.D
Acq: 24 Jul 2023 14:19

Tgt Ion:152 Resp: 4722

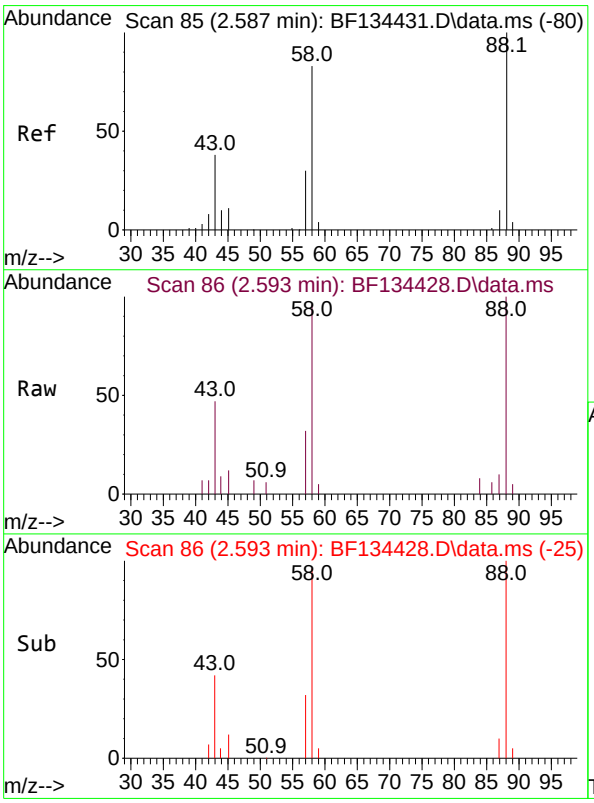
Ion	Ratio	Lower	Upper
152	100		
150	157.6	128.3	192.5
115	63.2	52.4	78.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

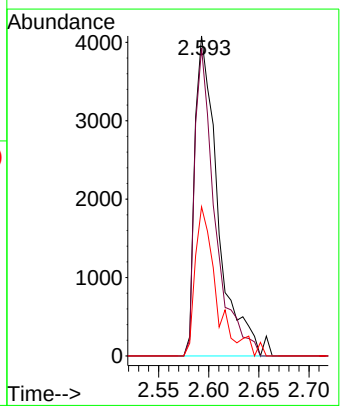
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

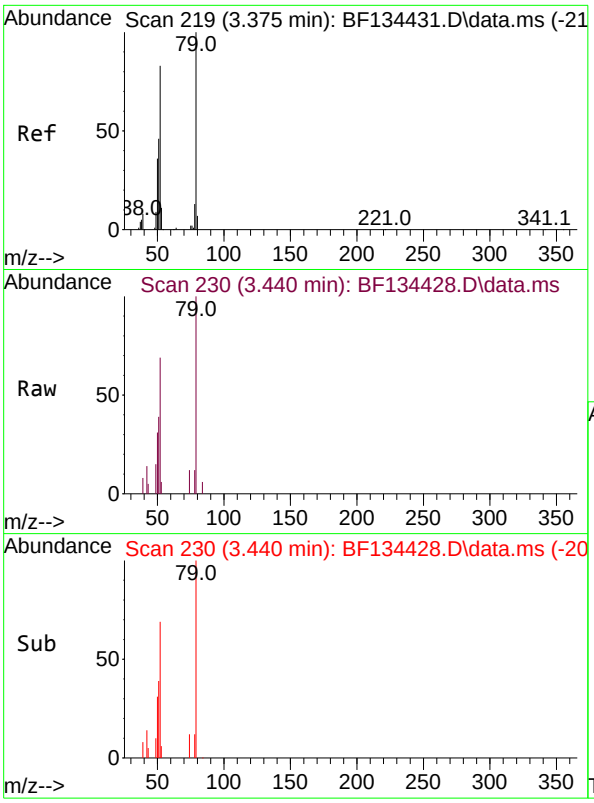


#2
1,4-Dioxane
Concen: 5.432 ng
RT: 2.593 min Scan# 86
Delta R.T. 0.006 min
Lab File: BF134428.D
Acq: 24 Jul 2023 14:19

Tgt Ion: 88 Resp: 6586

Ion	Ratio	Lower	Upper
88	100		
58	84.3	65.1	97.7
43	43.2	30.3	45.5

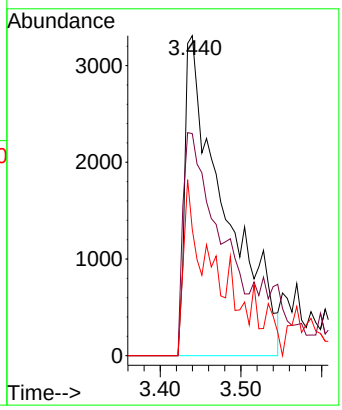




#3
Pyridine
Concen: 4.242 ng m
RT: 3.440 min Scan# 2
Delta R.T. 0.065 min
Lab File: BF134428.D
Acq: 24 Jul 2023 14:19

Tgt Ion: 79 Resp: 1123

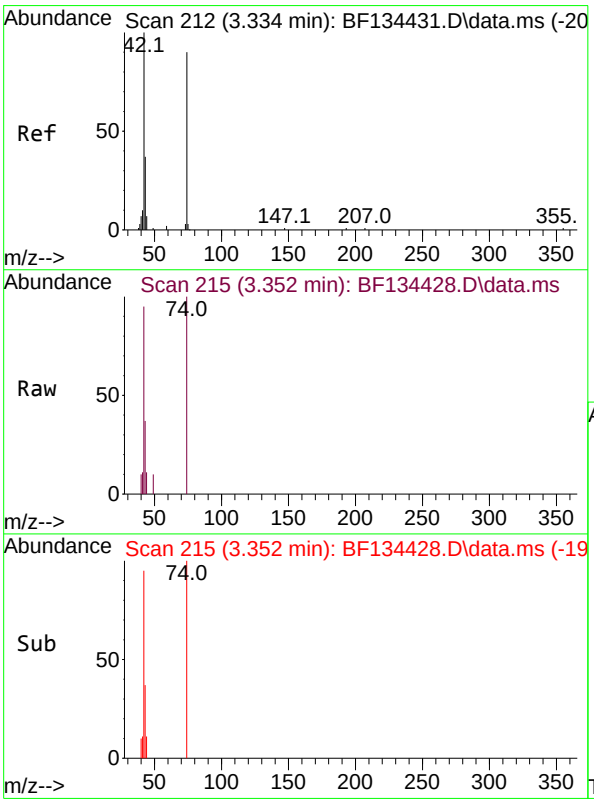
Ion	Ratio	Lower	Upper
79	100		
52	69.4	66.6	100.0
51	39.4	36.5	54.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

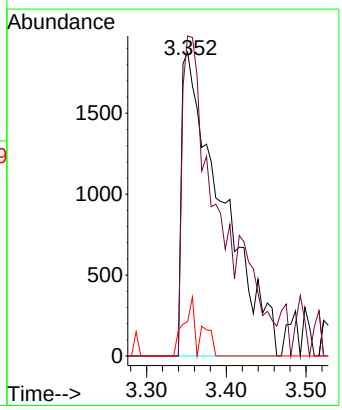
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

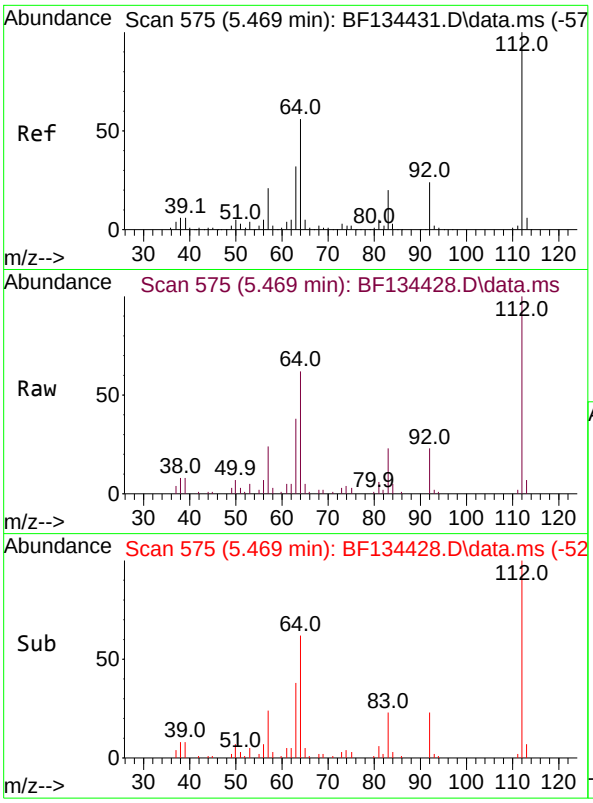


#4
n-Nitrosodimethylamine
Concen: 4.141 ng m
RT: 3.352 min Scan# 215
Delta R.T. 0.018 min
Lab File: BF134428.D
Acq: 24 Jul 2023 14:19

Tgt Ion: 42 Resp: 6549

Ion	Ratio	Lower	Upper
42	100		
74	105.3	72.2	108.4
44	11.3	5.4	8.0#

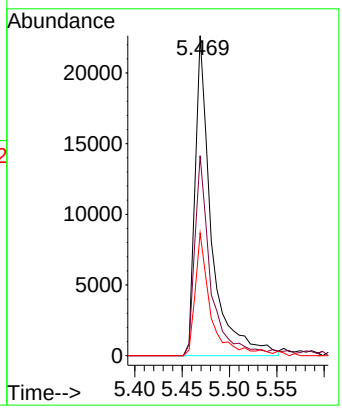




#5
2-Fluorophenol
Concen: 9.522 ng
RT: 5.469 min Scan# 5
Delta R.T. 0.000 min
Lab File: BF134428.D
Acq: 24 Jul 2023 14:19

Tgt Ion:112 Resp: 2721

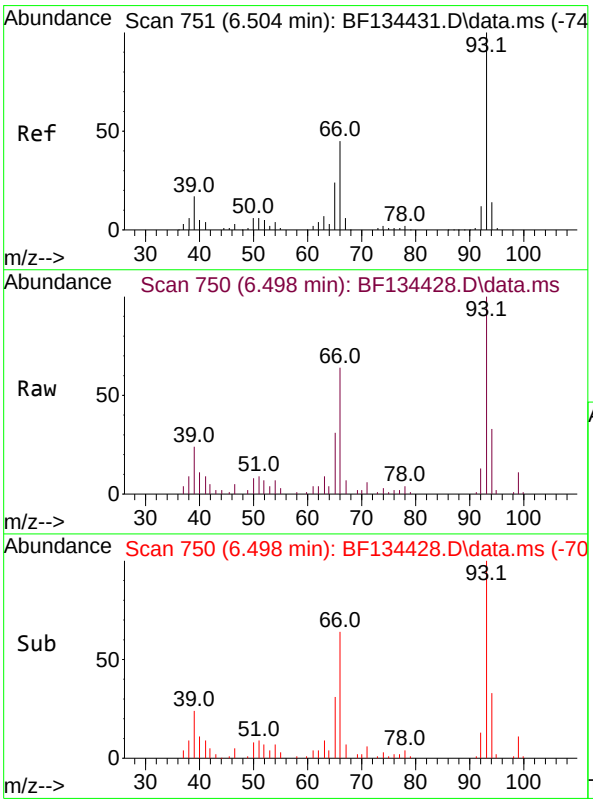
Ion	Ratio	Lower	Upper
112	100		
64	62.5	44.9	67.3
63	38.3	25.4	38.0#



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

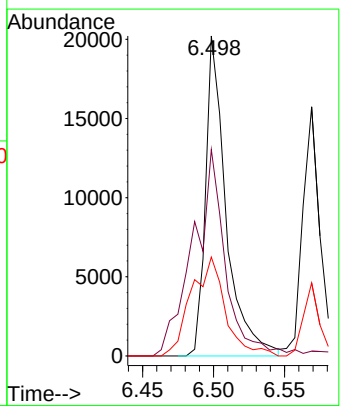
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

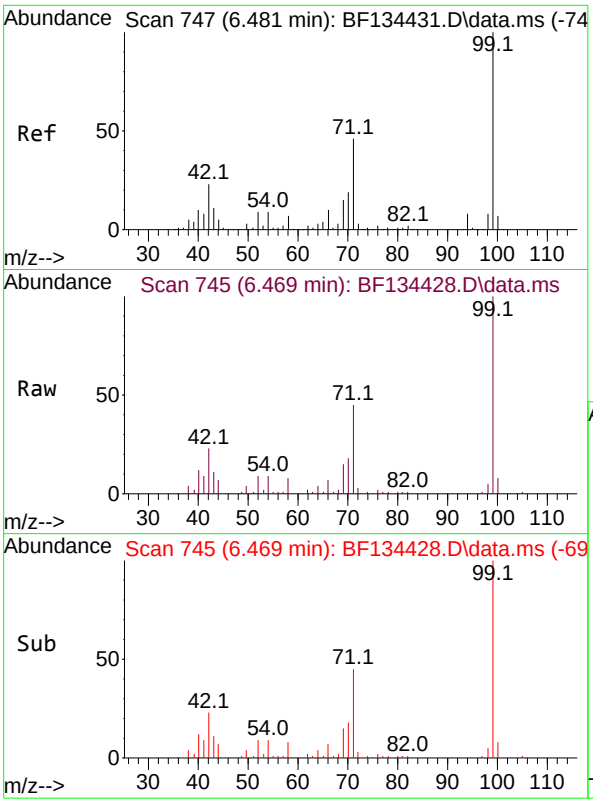


#6
Aniline
Concen: 4.942 ng
RT: 6.498 min Scan# 750
Delta R.T. -0.006 min
Lab File: BF134428.D
Acq: 24 Jul 2023 14:19

Tgt Ion: 93 Resp: 20400

Ion	Ratio	Lower	Upper
93	100		
66	64.5	36.8	55.2#
65	30.9	19.4	29.0#

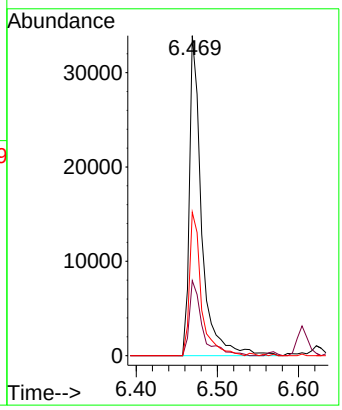




#7
Phenol-d6
Concen: 10.155 ng
RT: 6.469 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF134428.D
Acq: 24 Jul 2023 14:19

Tgt Ion: 99 Resp: 3556

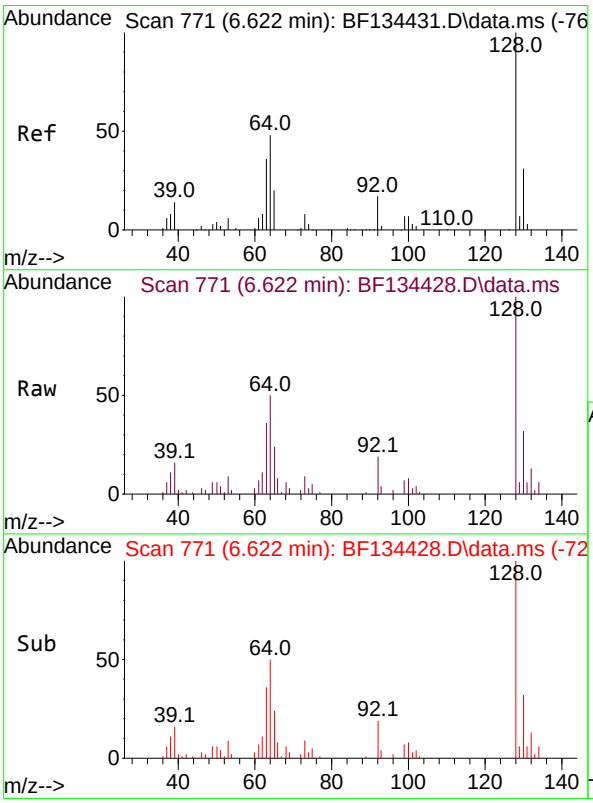
Ion	Ratio	Lower	Upper
99	100		
42	23.5	18.7	28.1
71	44.9	36.4	54.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

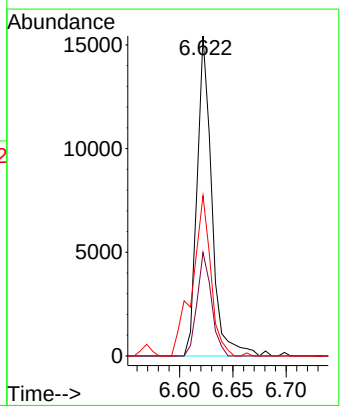
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

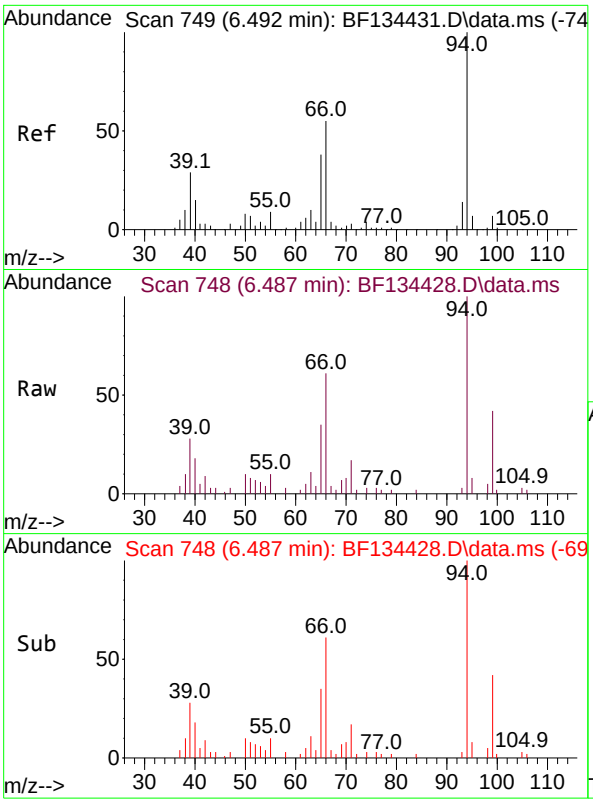


#8
2-Chlorophenol
Concen: 5.156 ng
RT: 6.622 min Scan# 771
Delta R.T. 0.000 min
Lab File: BF134428.D
Acq: 24 Jul 2023 14:19

Tgt Ion:128 Resp: 14932

Ion	Ratio	Lower	Upper
128	100		
130	32.4	11.1	51.1
64	50.1	31.9	71.9

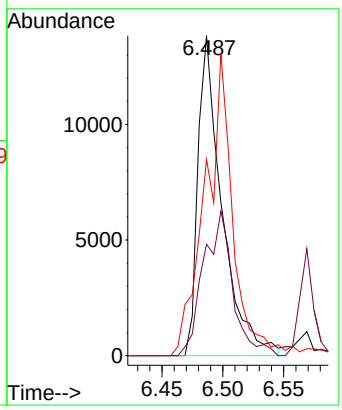




#10
Phenol
Concen: 5.205 ng
RT: 6.487 min Scan# 74
Delta R.T. -0.006 min
Lab File: BF134428.D
Acq: 24 Jul 2023 14:19

Tgt Ion: 94 Resp: 1896

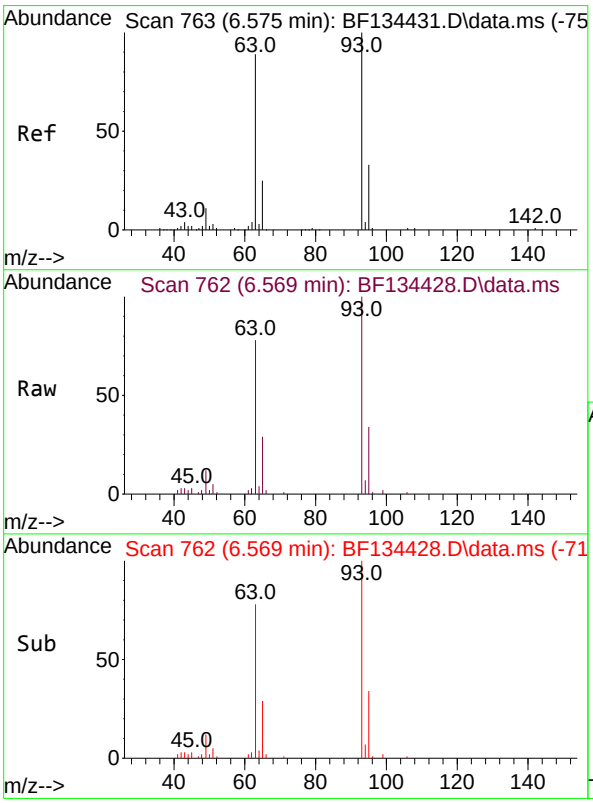
Ion	Ratio	Lower	Upper
94	100		
65	34.8	17.8	57.8
66	61.4	35.2	75.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

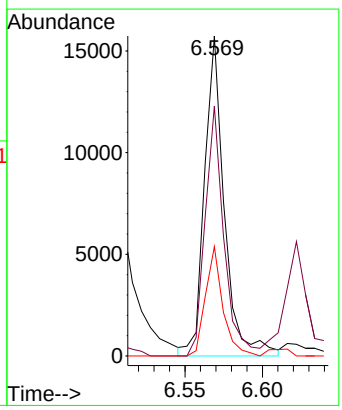
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

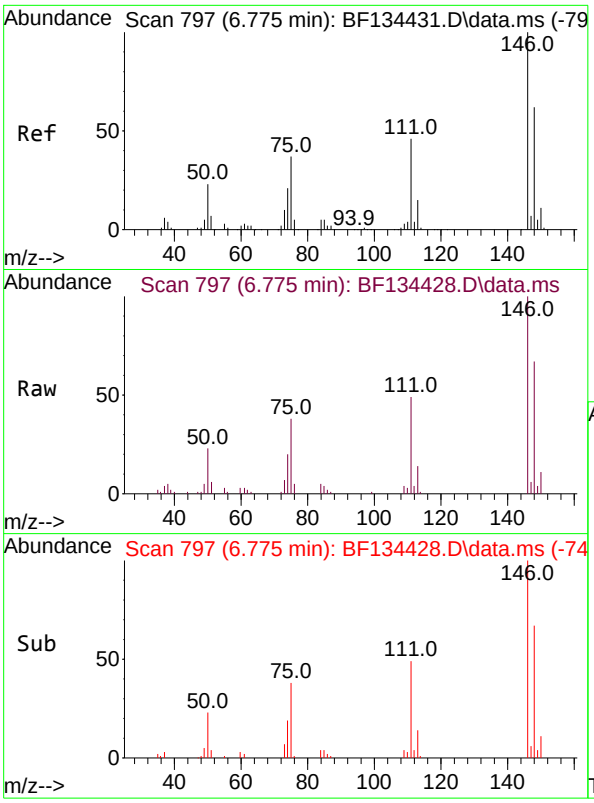


#11
bis(2-Chloroethyl)ether
Concen: 5.511 ng
RT: 6.569 min Scan# 762
Delta R.T. -0.006 min
Lab File: BF134428.D
Acq: 24 Jul 2023 14:19

Tgt Ion: 93 Resp: 14018

Ion	Ratio	Lower	Upper
93	100		
63	78.1	68.4	108.4
95	34.2	12.4	52.4

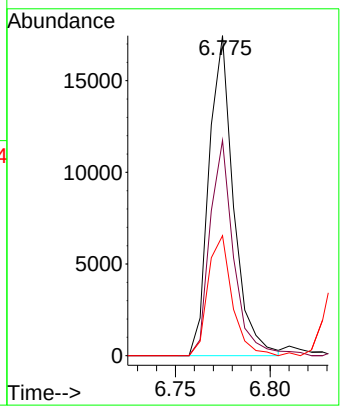




#12
1,3-Dichlorobenzene
Concen: 5.051 ng
RT: 6.775 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF134428.D
Acq: 24 Jul 2023 14:19

Tgt Ion:146 Resp: 1573

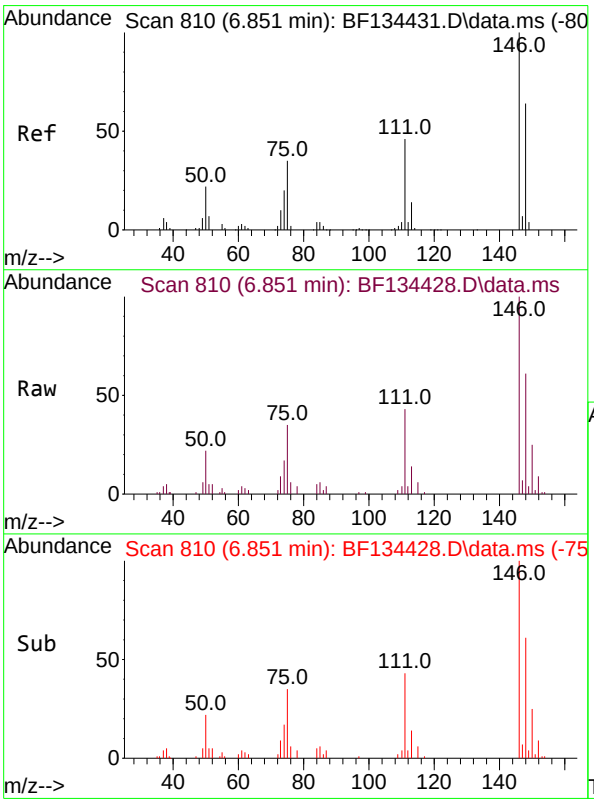
Ion	Ratio	Lower	Upper
146	100		
148	67.3	49.7	74.5
75	37.5	29.5	44.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

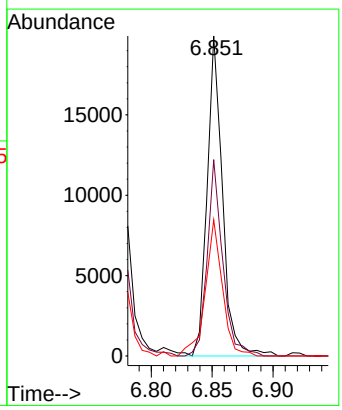
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

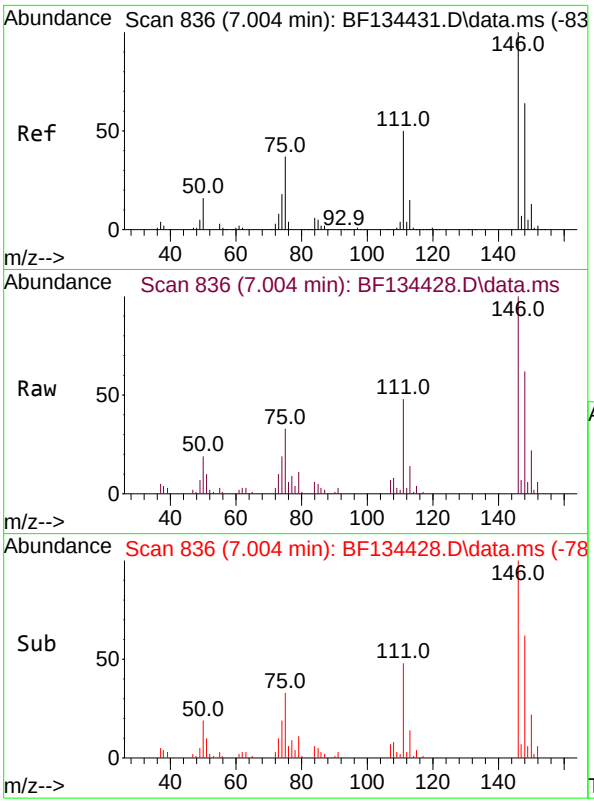


#13
1,4-Dichlorobenzene
Concen: 5.461 ng
RT: 6.851 min Scan# 810
Delta R.T. 0.000 min
Lab File: BF134428.D
Acq: 24 Jul 2023 14:19

Tgt Ion:146 Resp: 17501

Ion	Ratio	Lower	Upper
146	100		
148	61.4	51.3	76.9
111	42.6	36.6	55.0

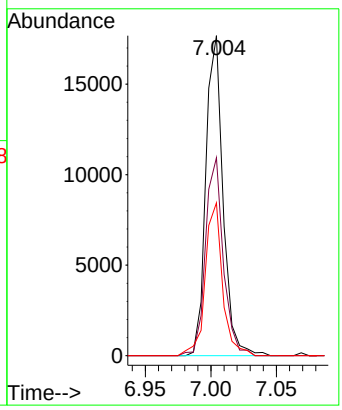




#14
1,2-Dichlorobenzene
Concen: 5.361 ng
RT: 7.004 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF134428.D
Acq: 24 Jul 2023 14:19

Tgt Ion:146 Resp: 1613

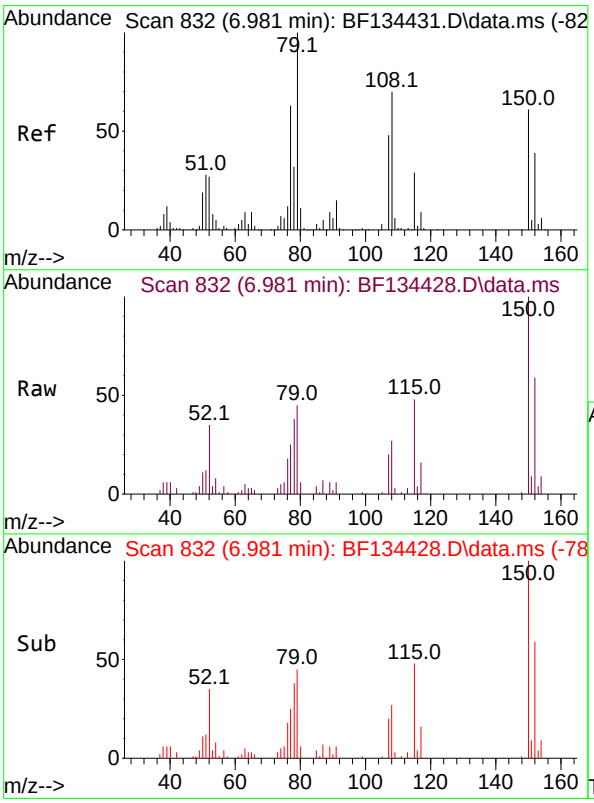
Ion	Ratio	Lower	Upper
146	100		
148	61.9	51.2	76.8
111	47.7	39.9	59.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

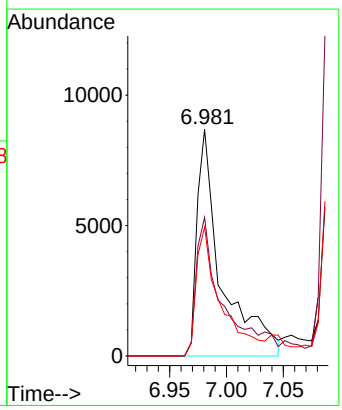
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

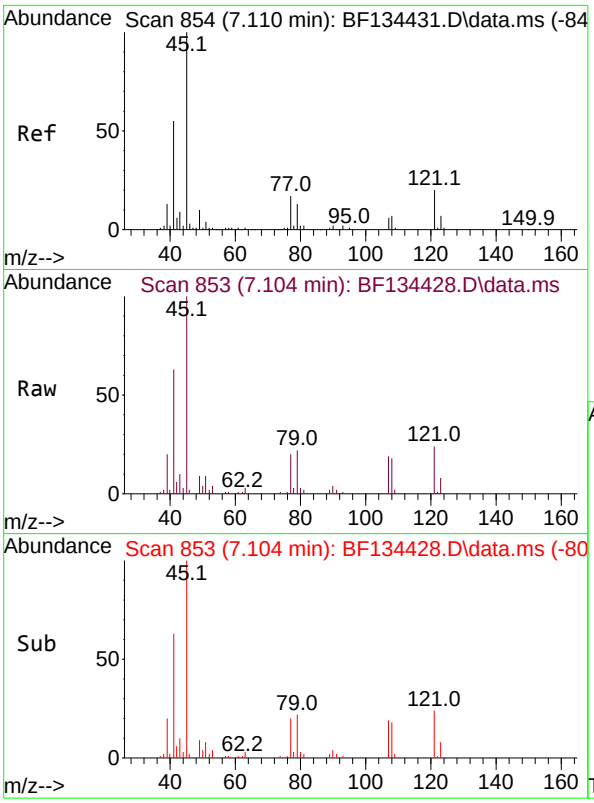


#15
Benzyl Alcohol
Concen: 4.889 ng
RT: 6.981 min Scan# 832
Delta R.T. 0.000 min
Lab File: BF134428.D
Acq: 24 Jul 2023 14:19

Tgt Ion: 79 Resp: 13090

Ion	Ratio	Lower	Upper
79	100		
108	61.2	56.3	84.5
77	56.8	50.6	76.0

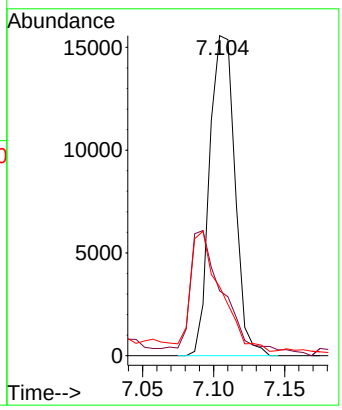




#16
2,2'-oxybis(1-Chloropropane)
Concen: 5.153 ng
RT: 7.104 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF134428.D
Acq: 24 Jul 2023 14:19

Tgt Ion: 45 Resp: 1930

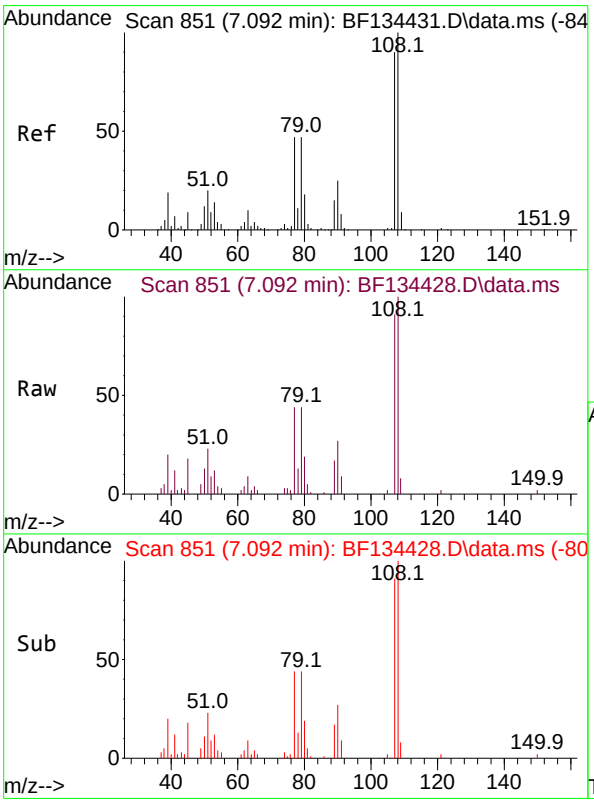
Ion	Ratio	Lower	Upper
45	100		
77	20.3	0.0	37.8
79	21.5	0.0	34.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

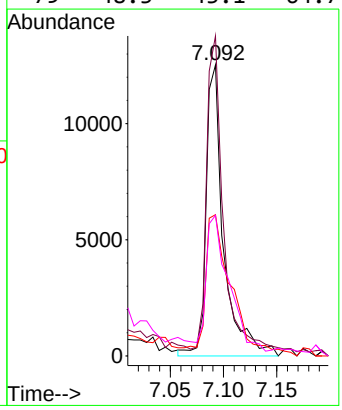
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

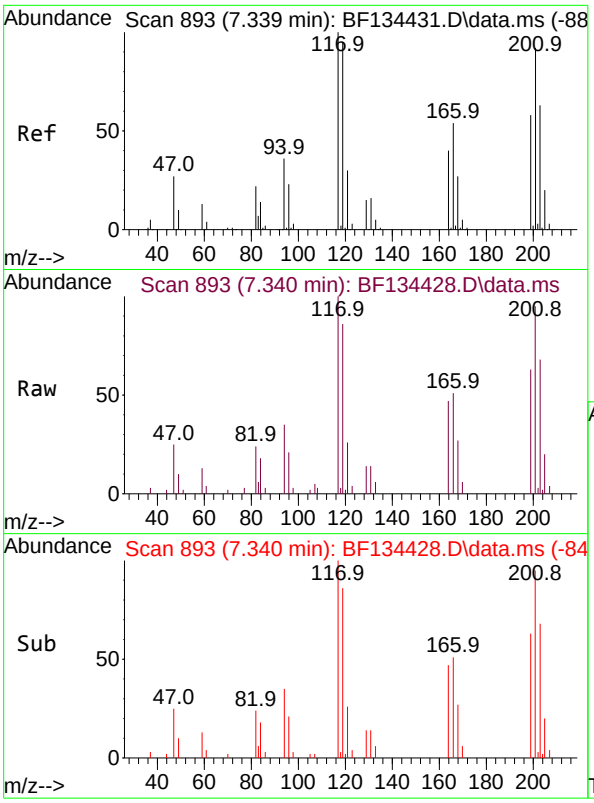


#17
2-Methylphenol
Concen: 5.529 ng
RT: 7.092 min Scan# 851
Delta R.T. 0.000 min
Lab File: BF134428.D
Acq: 24 Jul 2023 14:19

Tgt Ion:107 Resp: 14278

Ion	Ratio	Lower	Upper
107	100		
108	110.0	89.4	134.2
77	48.6	42.4	63.6
79	48.3	43.1	64.7

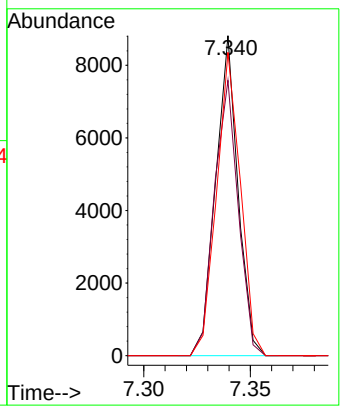




#18
Hexachloroethane
Concen: 5.216 ng
RT: 7.340 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF134428.D
Acq: 24 Jul 2023 14:19

Tgt Ion:117 Resp: 642

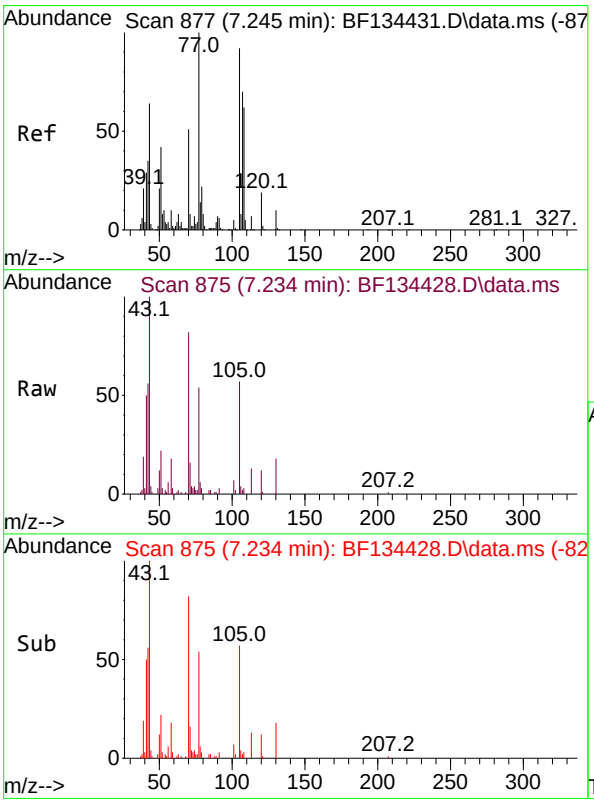
Ion	Ratio	Lower	Upper
117	100		
119	86.1	75.8	113.8
201	94.8	73.6	110.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

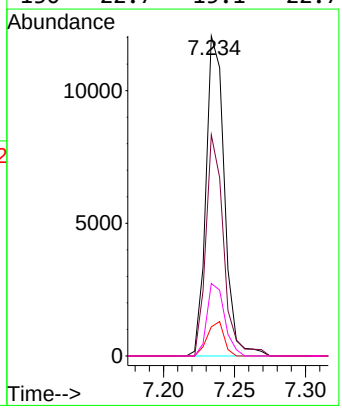
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

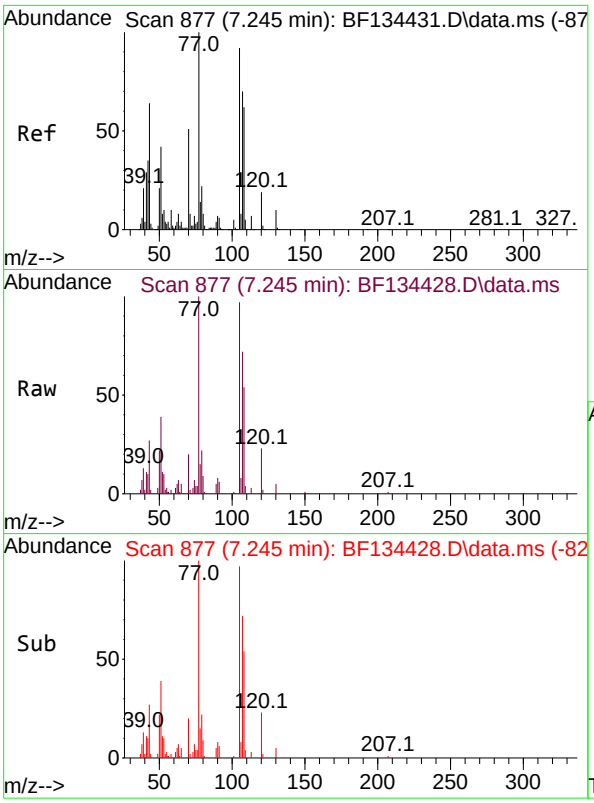


#19
n-Nitroso-di-n-propylamine
Concen: 5.015 ng
RT: 7.234 min Scan# 875
Delta R.T. -0.012 min
Lab File: BF134428.D
Acq: 24 Jul 2023 14:19

Tgt Ion: 70 Resp: 10934

Ion	Ratio	Lower	Upper
70	100		
42	69.1	54.7	82.1
101	9.1	8.2	12.2
130	22.7	15.1	22.7

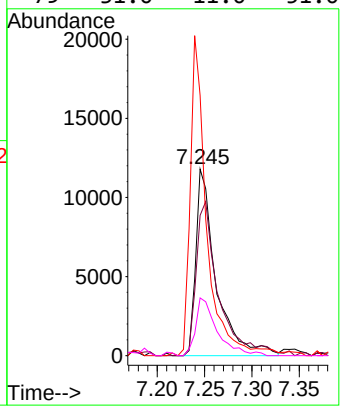




#20
3+4-Methylphenols
Concen: 5.273 ng
RT: 7.245 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF134428.D
Acq: 24 Jul 2023 14:19

Tgt Ion:107 Resp: 1743

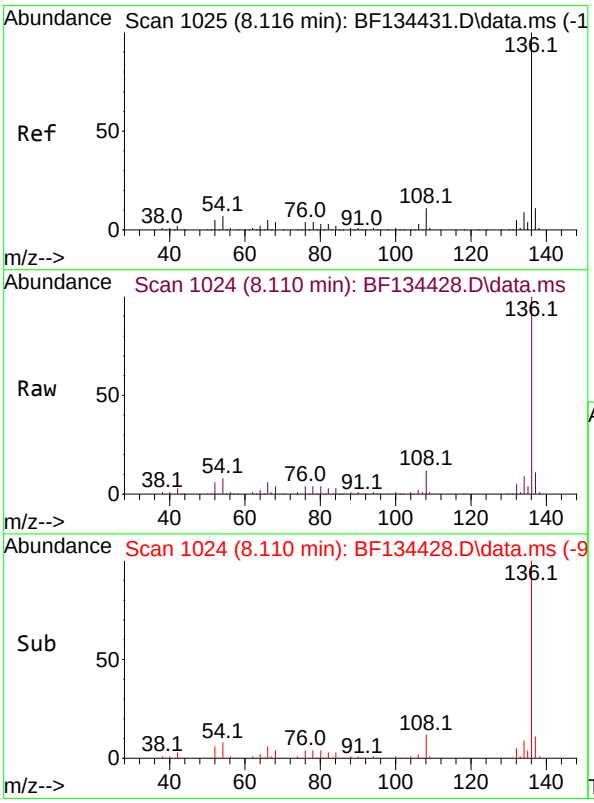
Ion	Ratio	Lower	Upper
107	100		
108	75.3	68.1	108.1
77	139.5	122.1	162.1
79	31.0	11.0	51.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

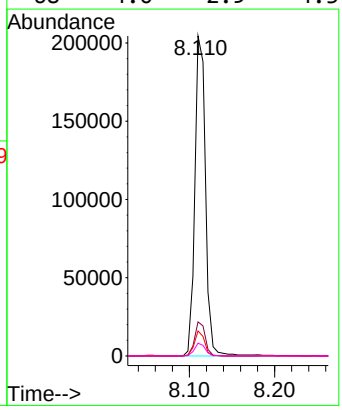
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

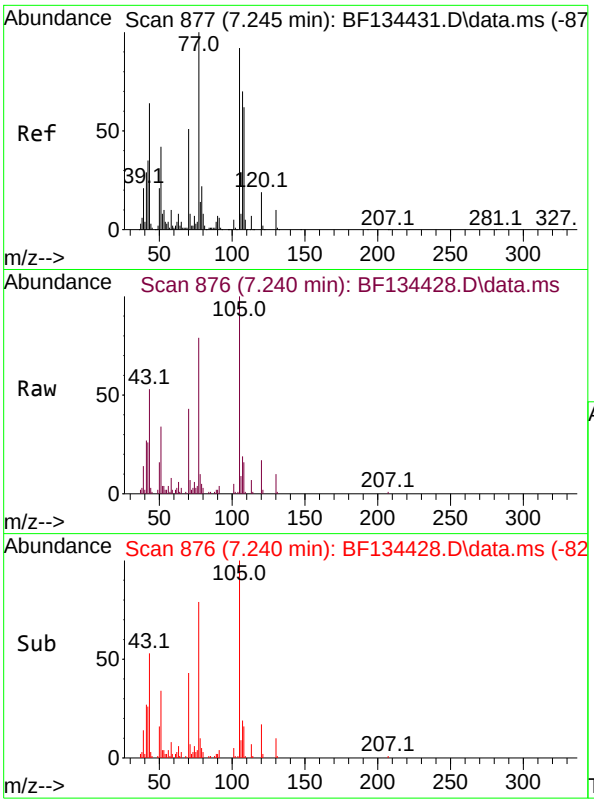


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.110 min Scan# 1024
Delta R.T. -0.006 min
Lab File: BF134428.D
Acq: 24 Jul 2023 14:19

Tgt Ion:136 Resp: 178040

Ion	Ratio	Lower	Upper
136	100		
137	10.7	8.4	12.6
54	7.8	5.2	7.8
68	4.0	2.9	4.3

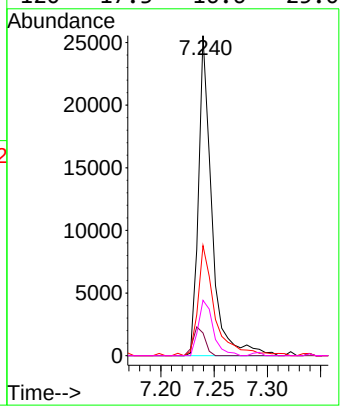




#22
Acetophenone
Concen: 5.052 ng
RT: 7.240 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF134428.D
Acq: 24 Jul 2023 14:19

Tgt Ion:105 Resp: 2237

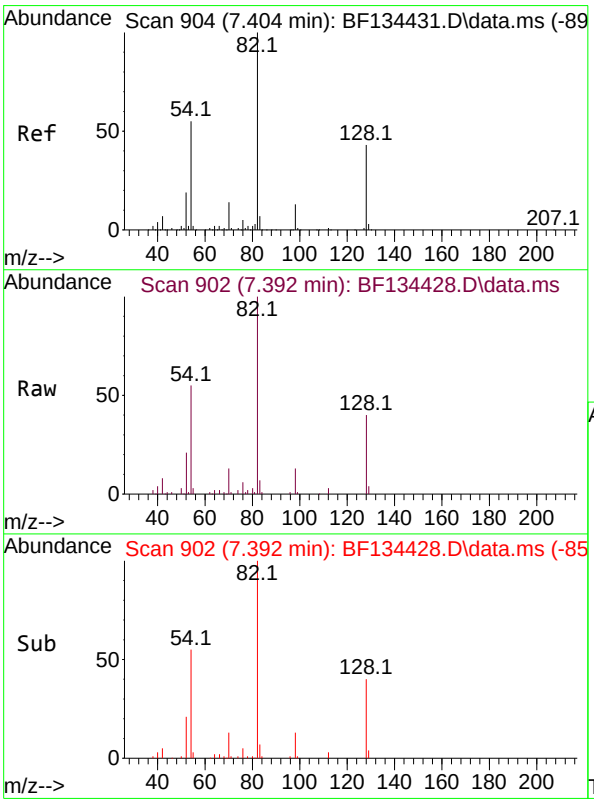
Ion	Ratio	Lower	Upper
105	100		
71	7.1	7.4	11.0#
51	34.4	36.4	54.6#
120	17.3	16.6	25.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

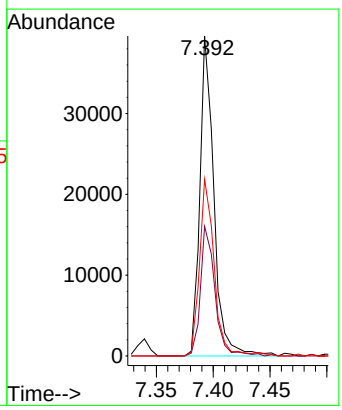
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

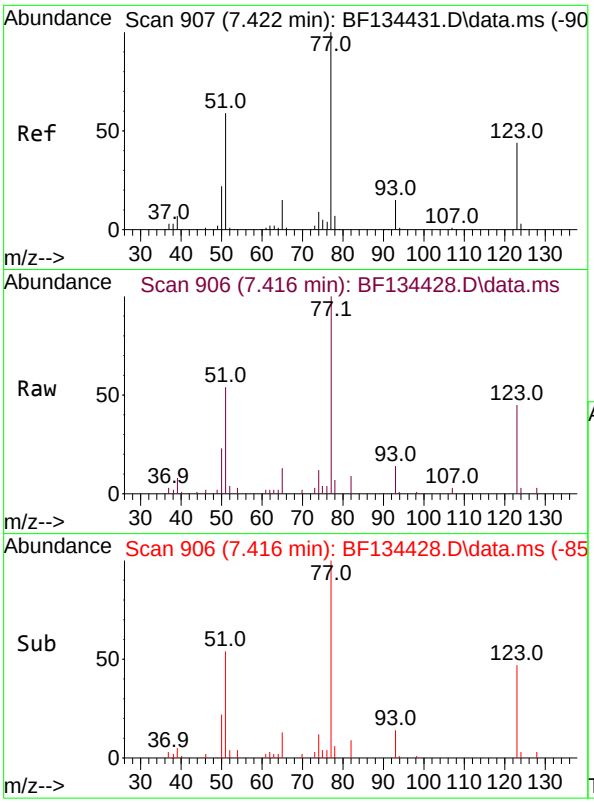


#23
Nitrobenzene-d5
Concen: 9.687 ng
RT: 7.392 min Scan# 902
Delta R.T. -0.012 min
Lab File: BF134428.D
Acq: 24 Jul 2023 14:19

Tgt Ion: 82 Resp: 34087

Ion	Ratio	Lower	Upper
82	100		
128	40.5	34.3	51.5
54	55.3	43.8	65.6

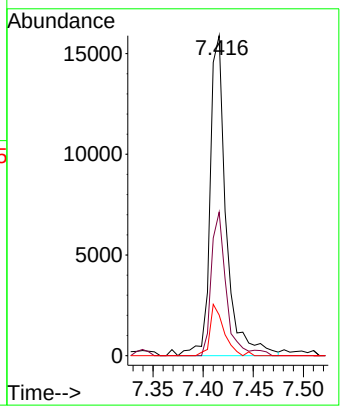




#24
Nitrobenzene
Concen: 5.062 ng
RT: 7.416 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF134428.D
Acq: 24 Jul 2023 14:19

Tgt Ion: 77 Resp: 1771

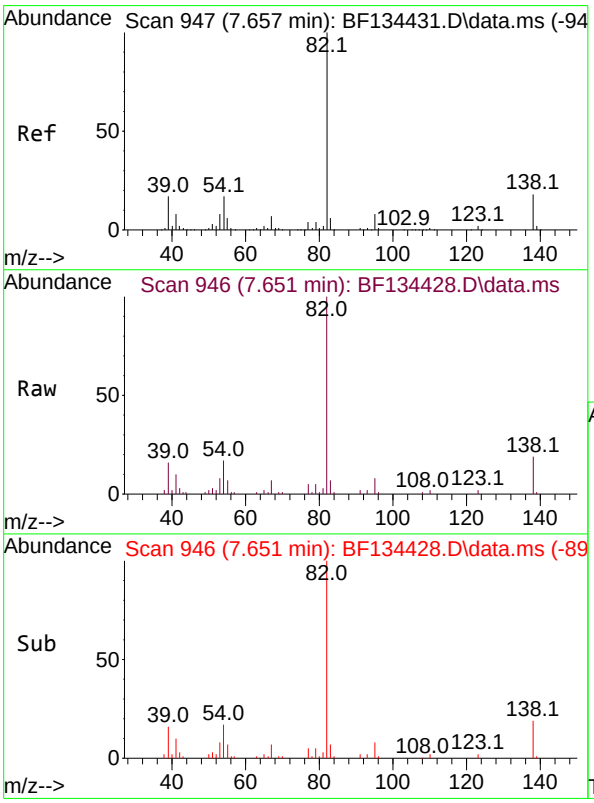
Ion	Ratio	Lower	Upper
77	100		
123	44.8	35.5	53.3
65	12.7	11.9	17.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

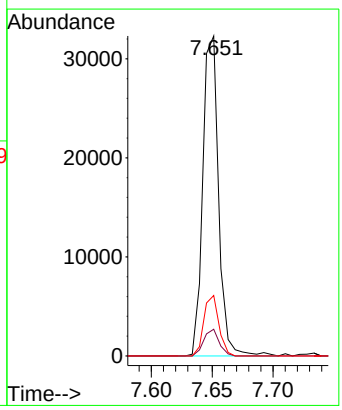
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

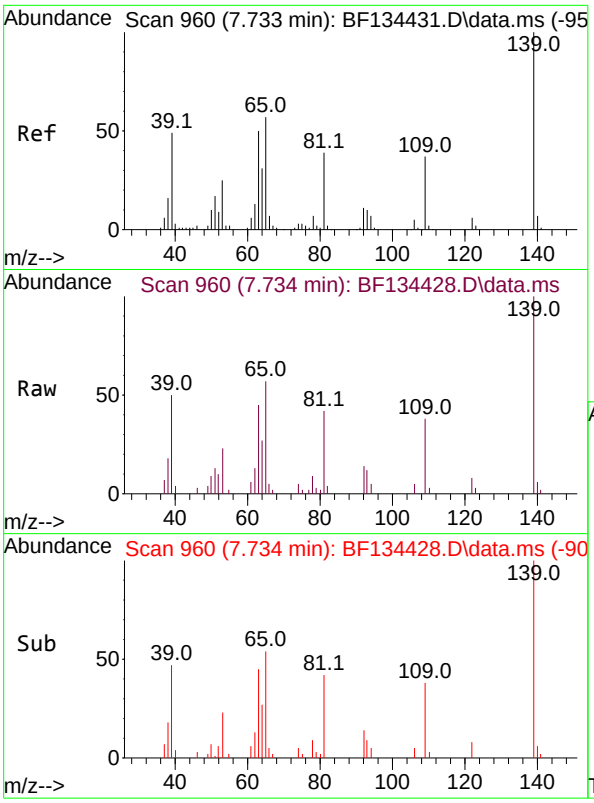


#25
Isophorone
Concen: 4.983 ng
RT: 7.651 min Scan# 946
Delta R.T. -0.006 min
Lab File: BF134428.D
Acq: 24 Jul 2023 14:19

Tgt Ion: 82 Resp: 29223

Ion	Ratio	Lower	Upper
82	100		
95	8.3	6.0	9.0
138	18.9	14.6	22.0

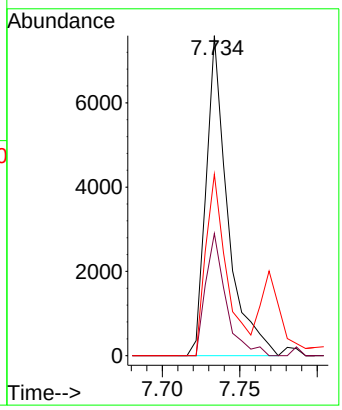




#26
2-Nitrophenol
Concen: 4.571 ng
RT: 7.734 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF134428.D
Acq: 24 Jul 2023 14:19

Tgt Ion:139 Resp: 735

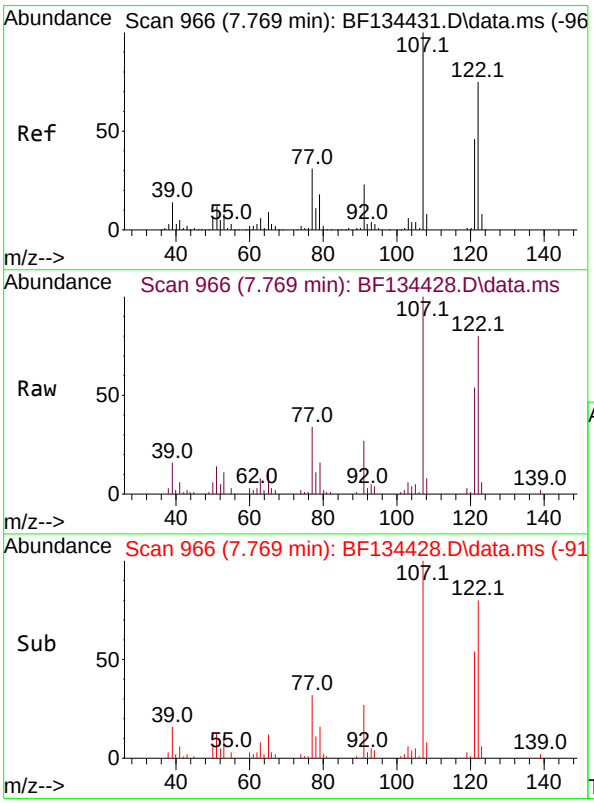
Ion	Ratio	Lower	Upper
139	100		
109	38.1	29.8	44.6
65	56.7	45.4	68.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

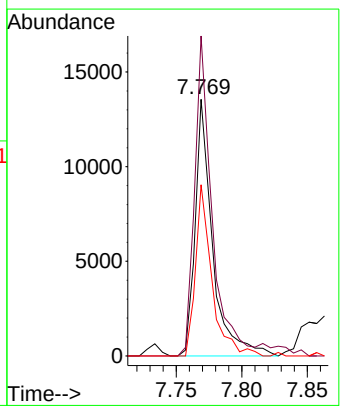
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

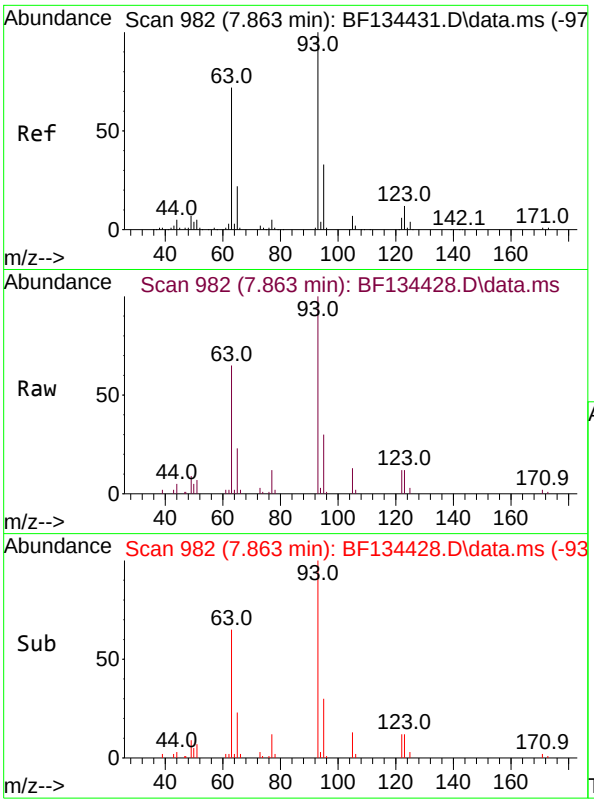


#27
2,4-Dimethylphenol
Concen: 4.931 ng
RT: 7.769 min Scan# 966
Delta R.T. 0.000 min
Lab File: BF134428.D
Acq: 24 Jul 2023 14:19

Tgt Ion:122 Resp: 12525

Ion	Ratio	Lower	Upper
122	100		
107	124.7	106.7	160.1
121	66.7	49.0	73.6





#28
bis(2-Chloroethoxy)methane
Concen: 4.953 ng
RT: 7.863 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF134428.D
Acq: 24 Jul 2023 14:19

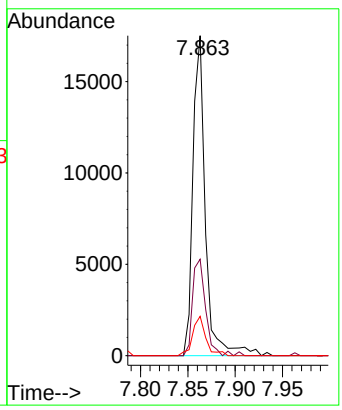
Tgt Ion: 93 Resp: 1616

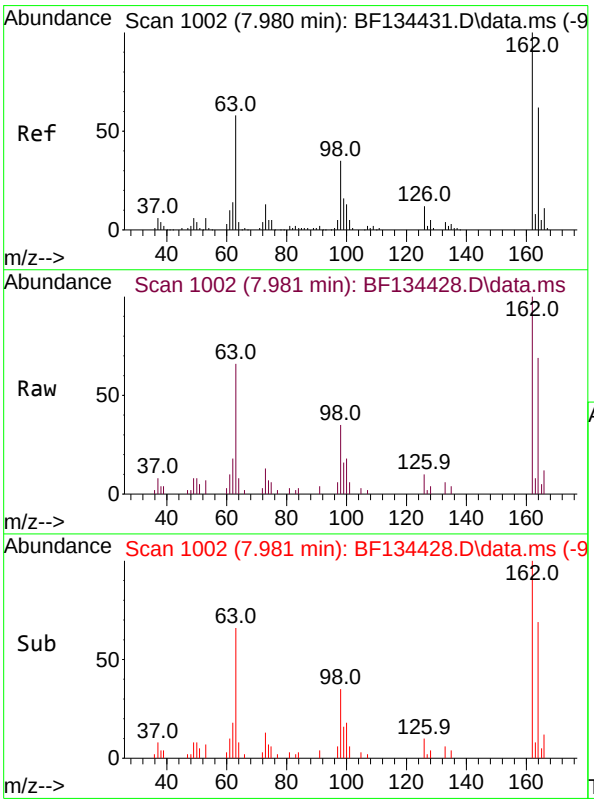
Ion	Ratio	Lower	Upper
93	100		
95	30.2	26.5	39.7
123	12.3	9.6	14.4

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

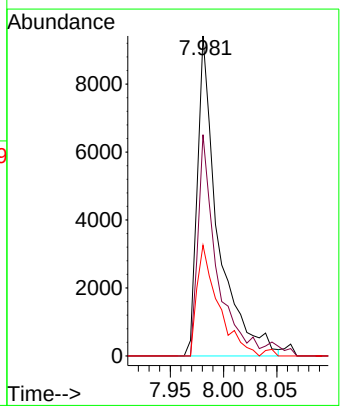


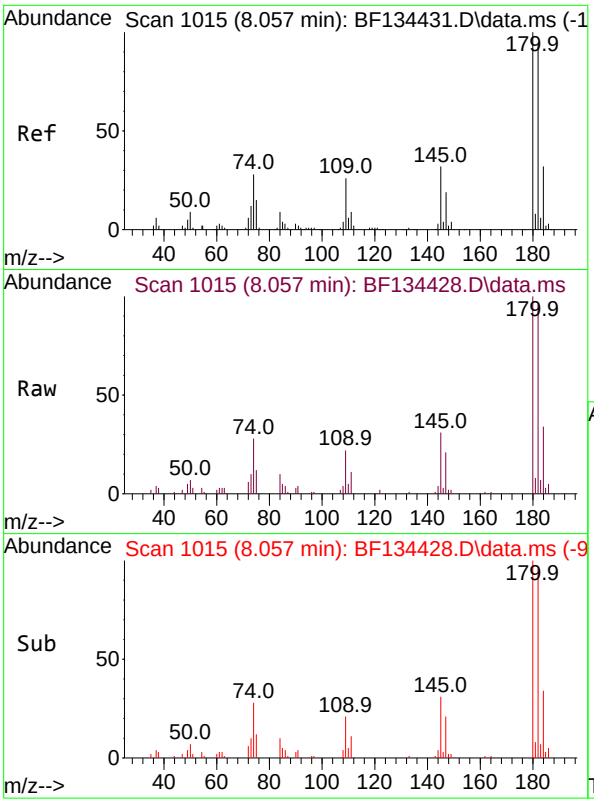


#29
2,4-Dichlorophenol
Concen: 4.975 ng
RT: 7.981 min Scan# 1002
Delta R.T. 0.000 min
Lab File: BF134428.D
Acq: 24 Jul 2023 14:19

Tgt Ion:162 Resp: 12633

Ion	Ratio	Lower	Upper
162	100		
164	69.1	42.2	82.2
98	34.6	15.5	55.5

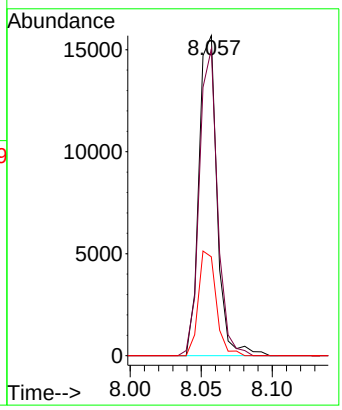




#30
1,2,4-Trichlorobenzene
Concen: 5.099 ng
RT: 8.057 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134428.D
Acq: 24 Jul 2023 14:19

Tgt Ion:180 Resp: 1396

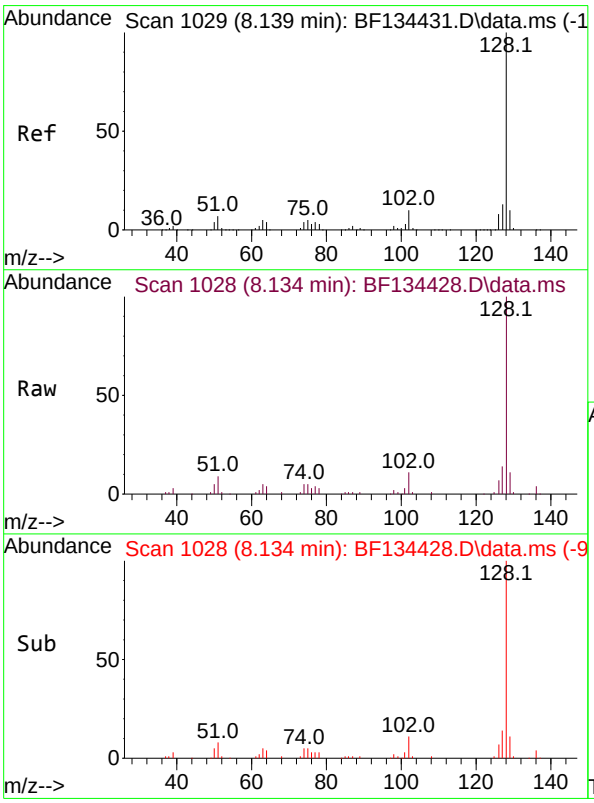
Ion	Ratio	Lower	Upper
180	100		
182	95.8	75.0	112.6
145	30.9	25.5	38.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

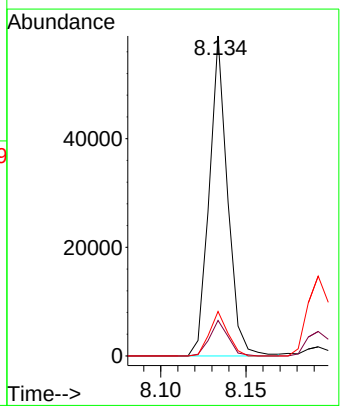
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

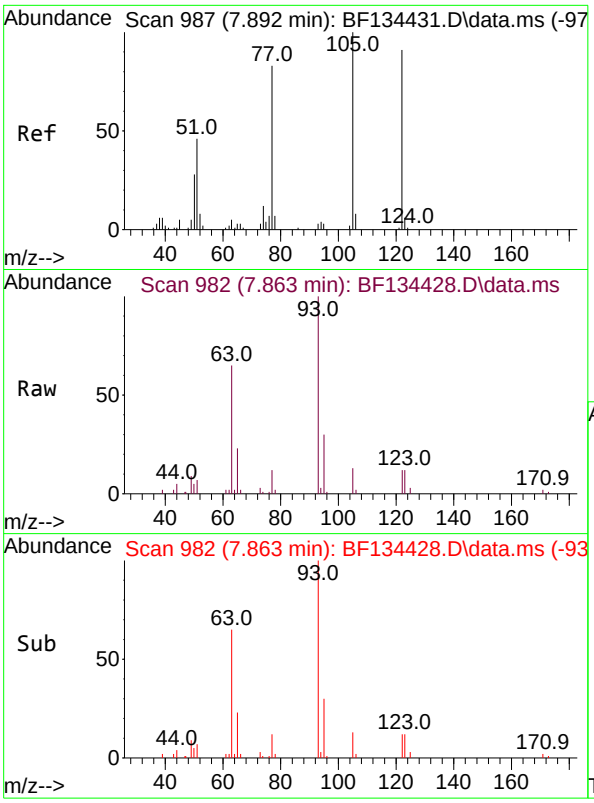


#31
Naphthalene
Concen: 4.963 ng
RT: 8.134 min Scan# 1028
Delta R.T. -0.006 min
Lab File: BF134428.D
Acq: 24 Jul 2023 14:19

Tgt Ion:128 Resp: 43975

Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.4	12.6
127	13.9	10.7	16.1

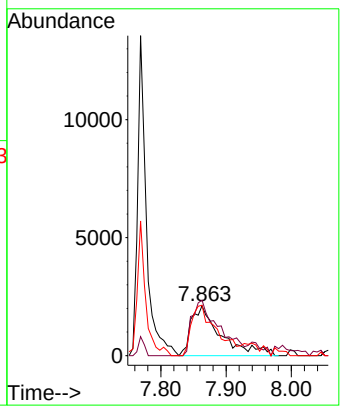




#32
Benzoic acid
Concen: 4.082 ng m
RT: 7.863 min Scan# 9
Delta R.T. -0.029 min
Lab File: BF134428.D
Acq: 24 Jul 2023 14:19

Tgt Ion:122 Resp: 667

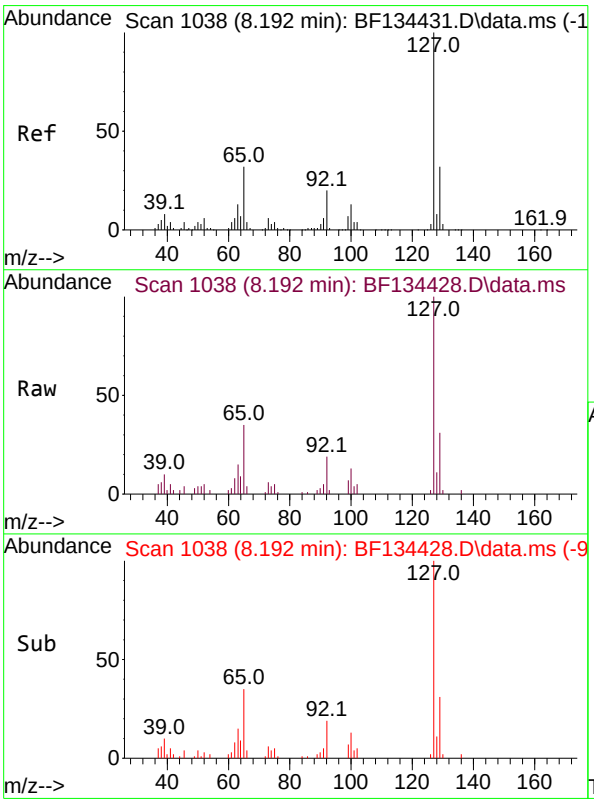
Ion	Ratio	Lower	Upper
122	100		
105	111.1	87.5	127.5
77	100.8	71.4	111.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

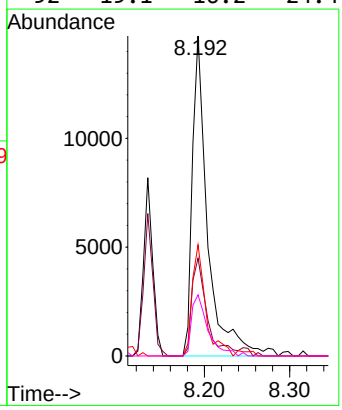
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

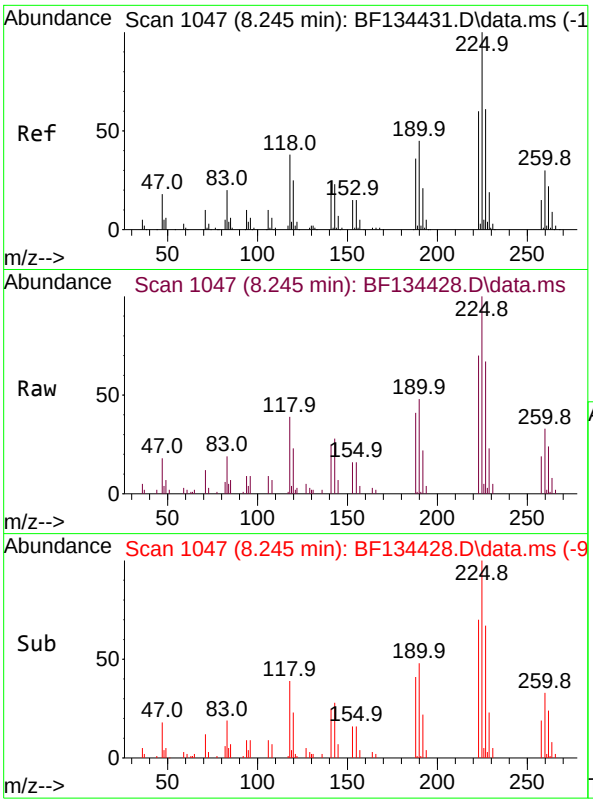


#33
4-Chloroaniline
Concen: 5.032 ng
RT: 8.192 min Scan# 1038
Delta R.T. 0.000 min
Lab File: BF134428.D
Acq: 24 Jul 2023 14:19

Tgt Ion:127 Resp: 18429

Ion	Ratio	Lower	Upper
127	100		
129	30.6	25.6	38.4
65	34.8	25.4	38.0
92	19.1	16.2	24.4

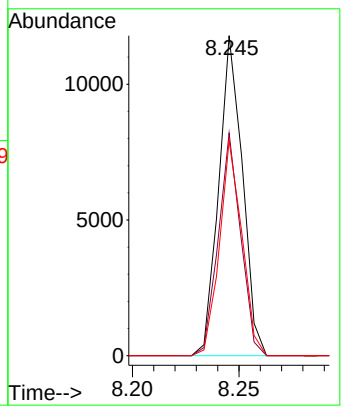




#34
Hexachlorobutadiene
Concen: 4.959 ng
RT: 8.245 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134428.D
Acq: 24 Jul 2023 14:19

Tgt Ion:225 Resp: 909

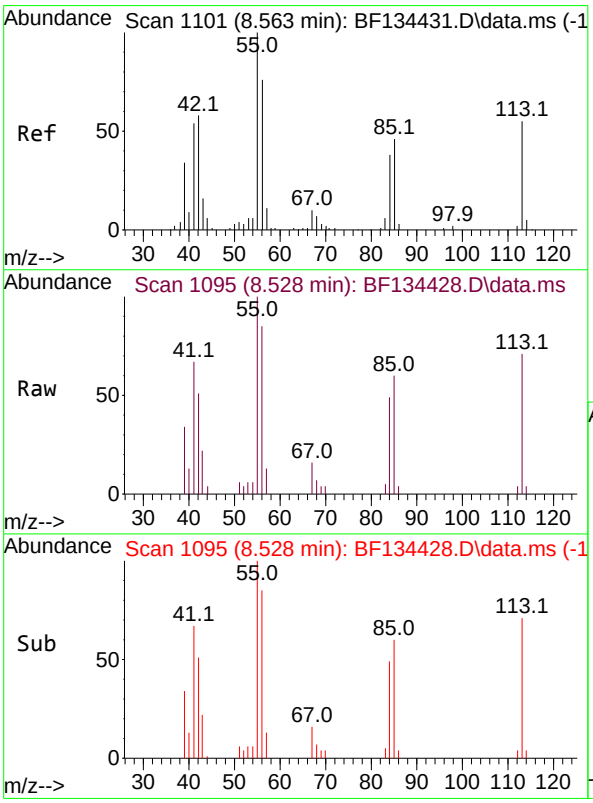
Ion	Ratio	Lower	Upper
225	100		
223	69.6	48.2	72.4
227	67.3	48.5	72.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

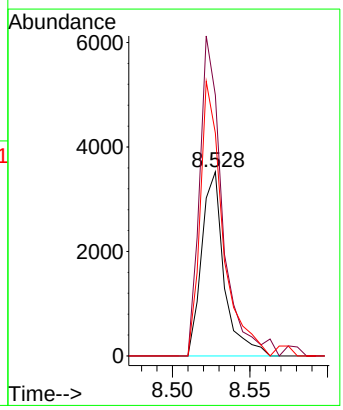
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

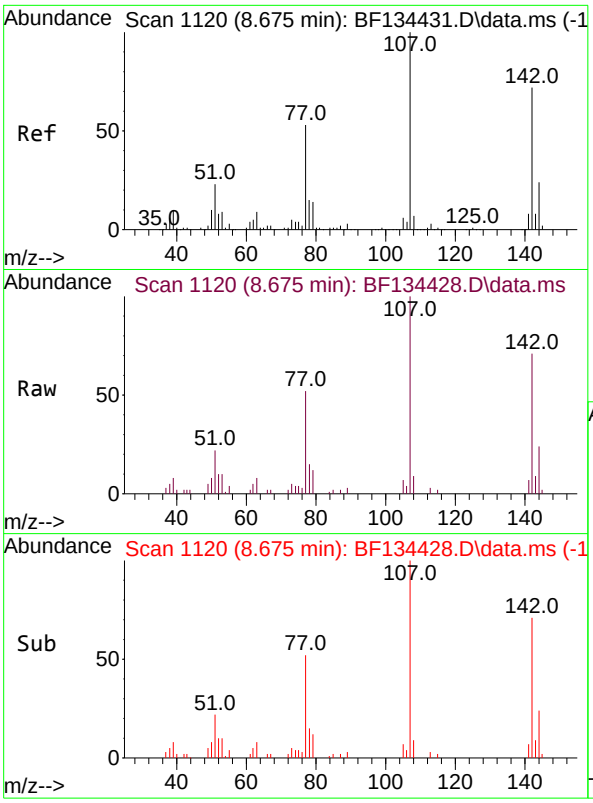


#35
Caprolactam
Concen: 4.581 ng
RT: 8.528 min Scan# 1095
Delta R.T. -0.035 min
Lab File: BF134428.D
Acq: 24 Jul 2023 14:19

Tgt Ion:113 Resp: 3563

Ion	Ratio	Lower	Upper
113	100		
55	141.7	161.5	201.5#
56	121.1	117.8	157.8

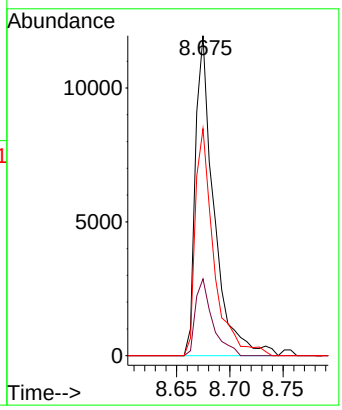




#36
4-Chloro-3-methylphenol
Concen: 4.972 ng
RT: 8.675 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134428.D
Acq: 24 Jul 2023 14:19

Tgt Ion:107 Resp: 1456

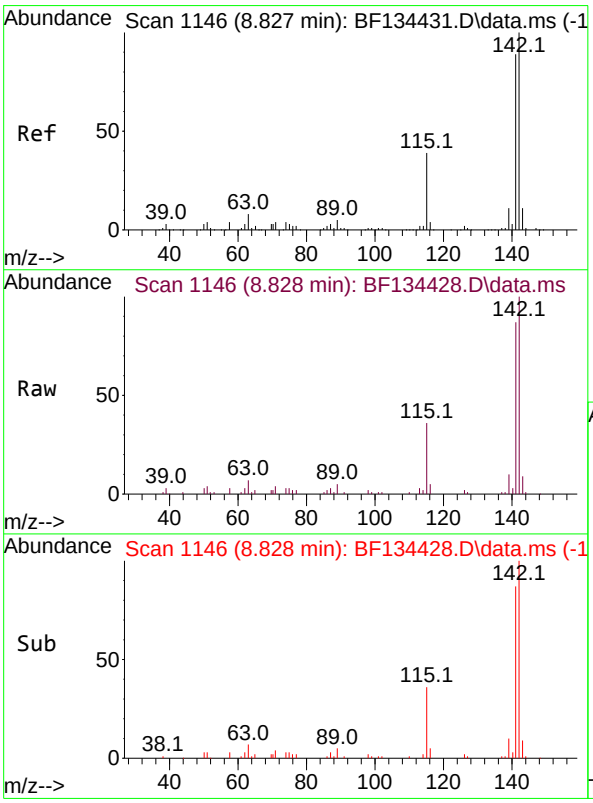
Ion	Ratio	Lower	Upper
107	100		
144	24.0	19.6	29.4
142	70.9	57.7	86.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

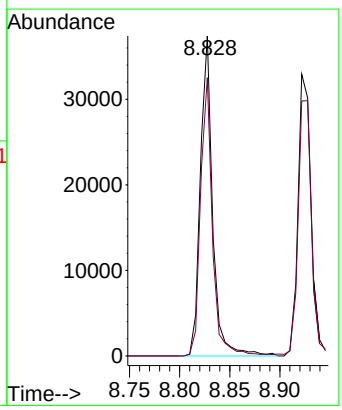
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

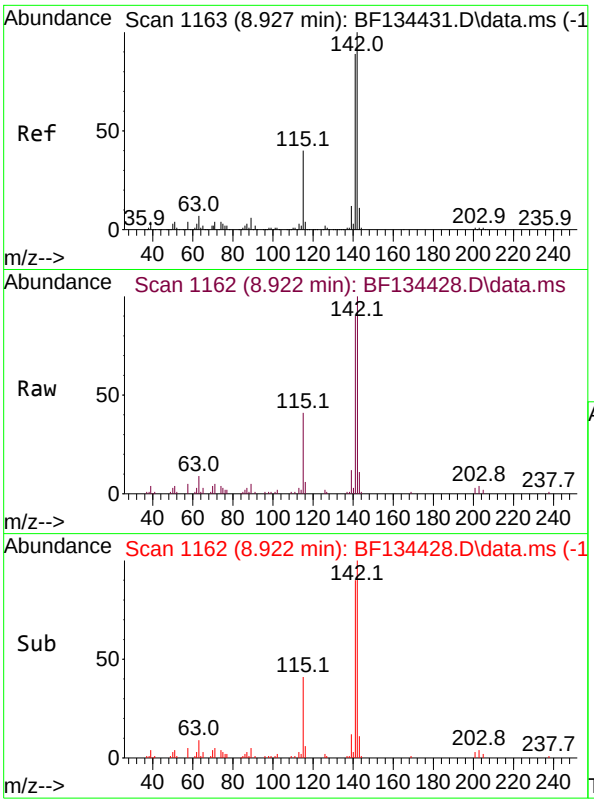


#37
2-Methylnaphthalene
Concen: 5.216 ng
RT: 8.828 min Scan# 1146
Delta R.T. 0.000 min
Lab File: BF134428.D
Acq: 24 Jul 2023 14:19

Tgt Ion:142 Resp: 32114

Ion	Ratio	Lower	Upper
142	100		
141	87.0	70.8	106.2

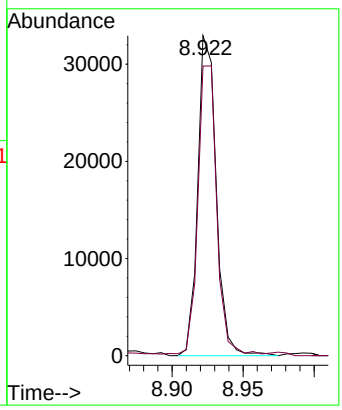




#38
1-Methylnaphthalene
Concen: 5.227 ng
RT: 8.922 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF134428.D
Acq: 24 Jul 2023 14:19

Tgt Ion:142 Resp: 2985

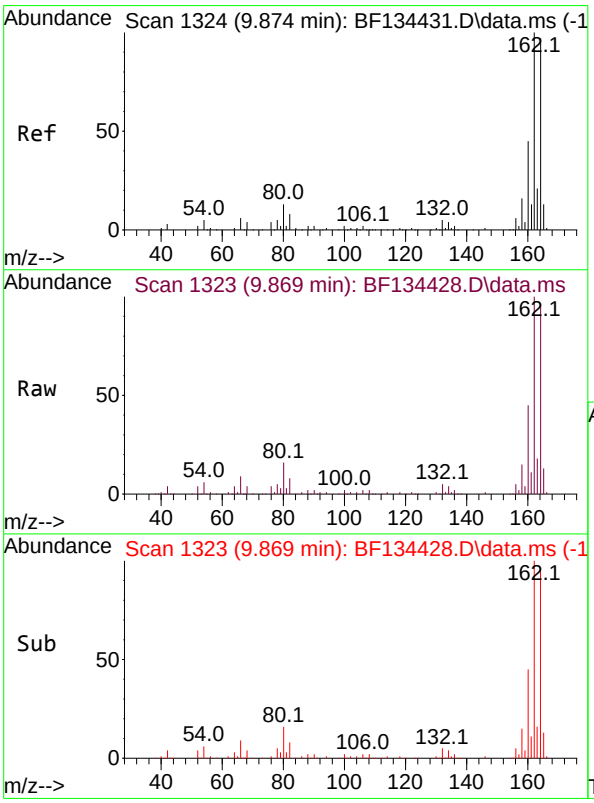
Ion	Ratio	Lower	Upper
142	100		
141	90.5	71.4	107.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

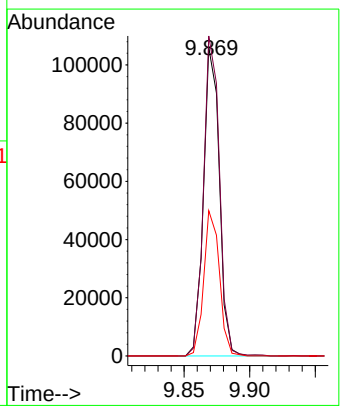
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

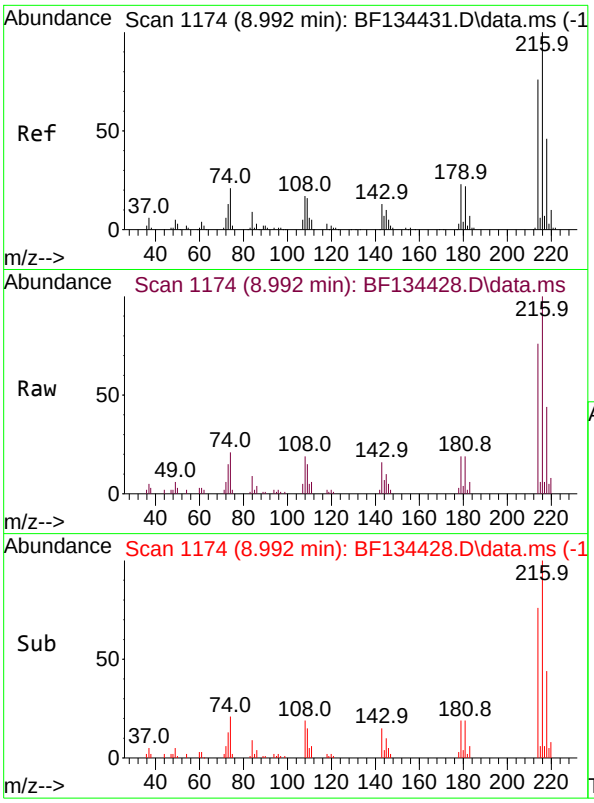


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.869 min Scan# 1323
Delta R.T. -0.006 min
Lab File: BF134428.D
Acq: 24 Jul 2023 14:19

Tgt Ion:164 Resp: 89675

Ion	Ratio	Lower	Upper
164	100		
162	103.7	82.6	123.8
160	47.1	37.2	55.8

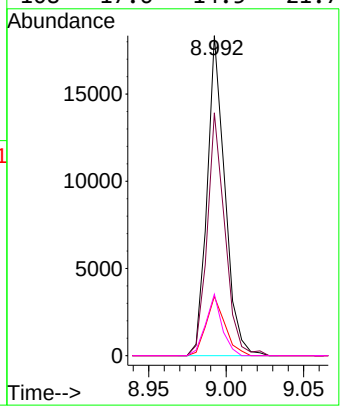




#40
1,2,4,5-Tetrachlorobenzene
Concen: 5.164 ng
RT: 8.992 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF134428.D
Acq: 24 Jul 2023 14:19

Tgt Ion:216 Resp: 1467

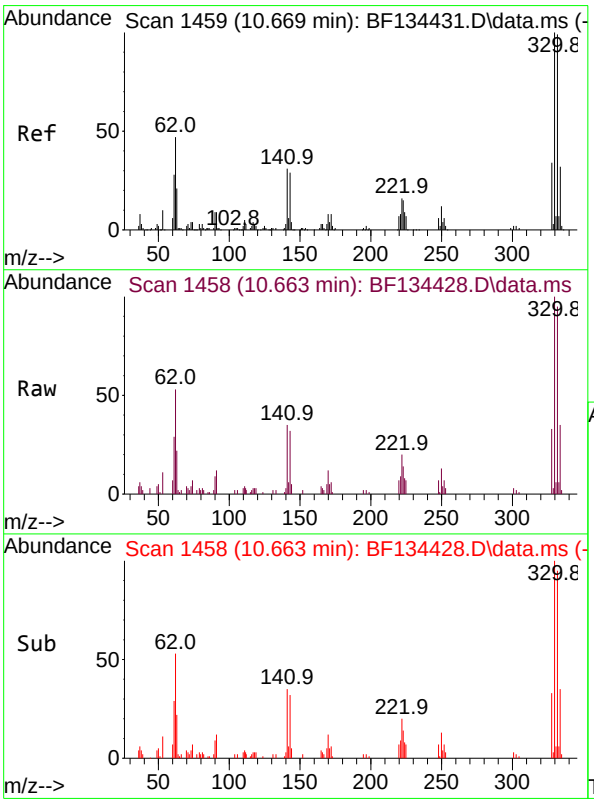
Ion	Ratio	Lower	Upper
216	100		
214	75.4	62.3	93.5
179	19.6	17.4	26.0
108	17.6	14.5	21.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

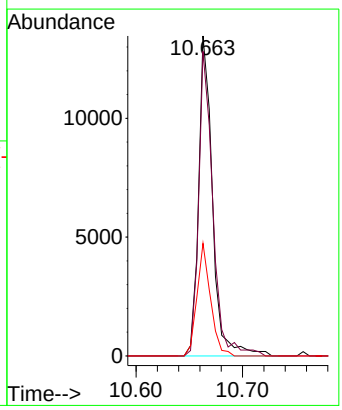
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

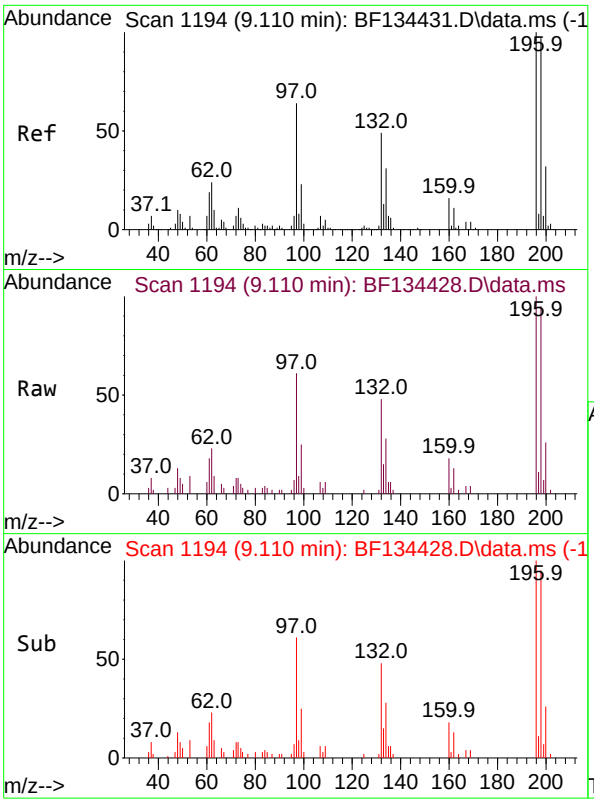


#42
2,4,6-Tribromophenol
Concen: 9.641 ng
RT: 10.663 min Scan# 1458
Delta R.T. -0.006 min
Lab File: BF134428.D
Acq: 24 Jul 2023 14:19

Tgt Ion:330 Resp: 12284

Ion	Ratio	Lower	Upper
330	100		
332	96.6	78.8	118.2
141	34.1	25.4	38.2

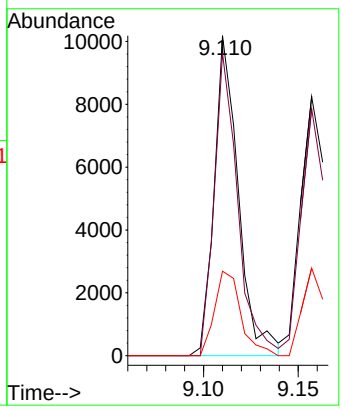




#43
2,4,6-Trichlorophenol
Concen: 4.969 ng
RT: 9.110 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134428.D
Acq: 24 Jul 2023 14:19

Tgt Ion:196 Resp: 905

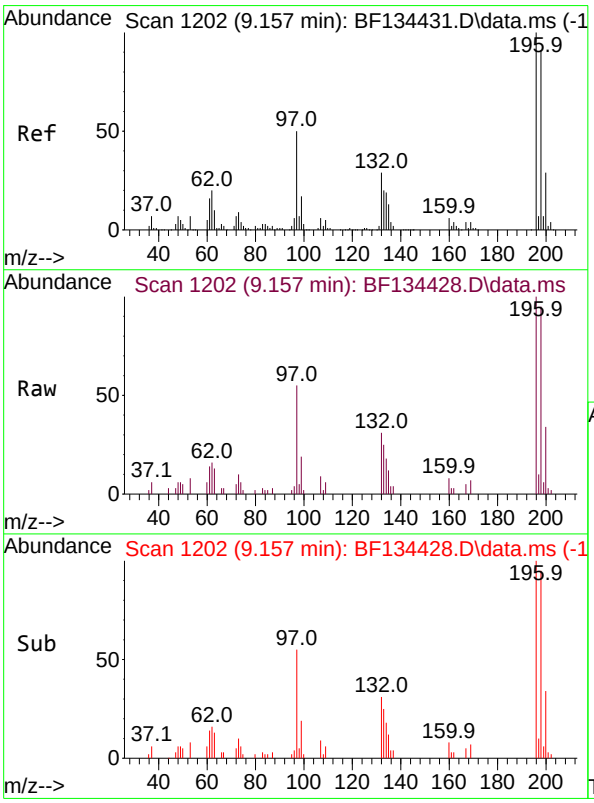
Ion	Ratio	Lower	Upper
196	100		
198	94.5	77.4	116.2
200	26.4	25.4	38.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

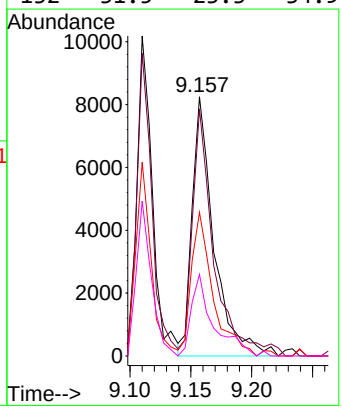
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

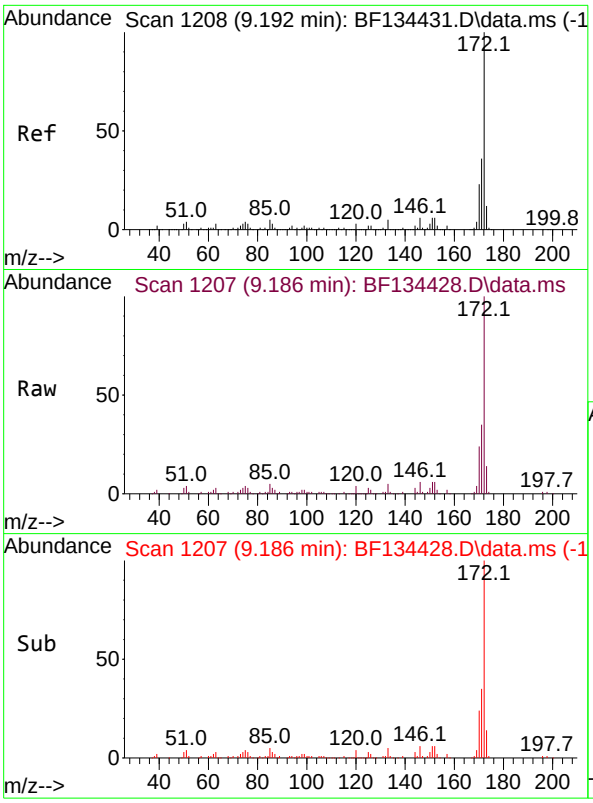


#44
2,4,5-Trichlorophenol
Concen: 4.843 ng
RT: 9.157 min Scan# 1202
Delta R.T. 0.000 min
Lab File: BF134428.D
Acq: 24 Jul 2023 14:19

Tgt Ion:196 Resp: 10286

Ion	Ratio	Lower	Upper
196	100		
198	95.3	73.0	109.4
97	55.4	40.8	61.2
132	31.5	23.3	34.9

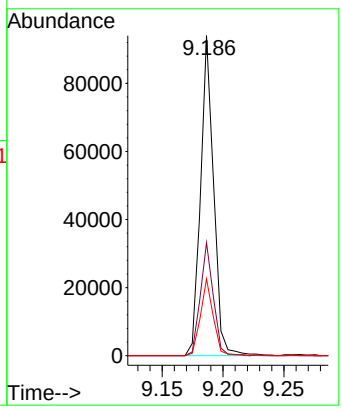




#45
2-Fluorobiphenyl
Concen: 10.346 ng
RT: 9.186 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF134428.D
Acq: 24 Jul 2023 14:19

Tgt Ion:172 Resp: 7066

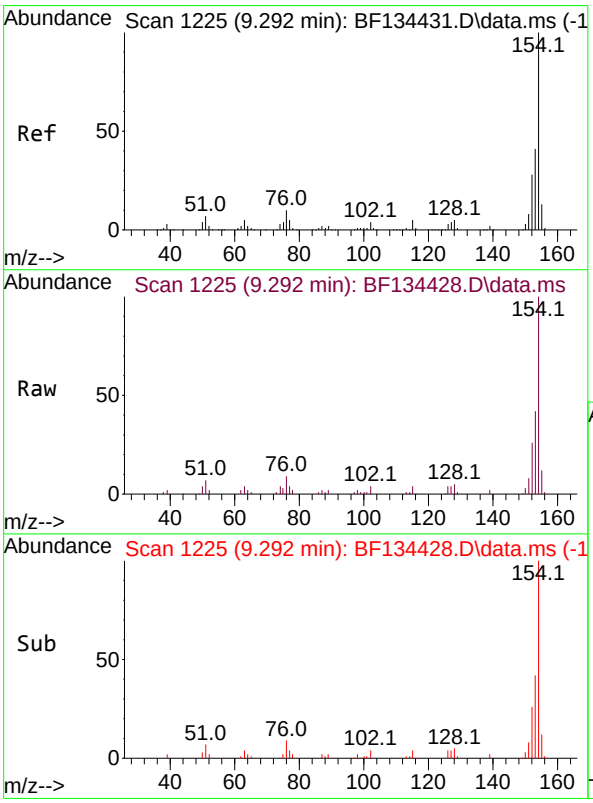
Ion	Ratio	Lower	Upper
172	100		
171	35.4	28.8	43.2
170	24.0	18.7	28.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

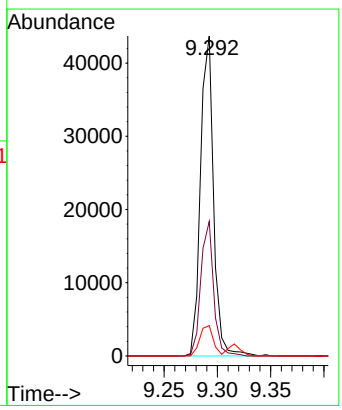
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

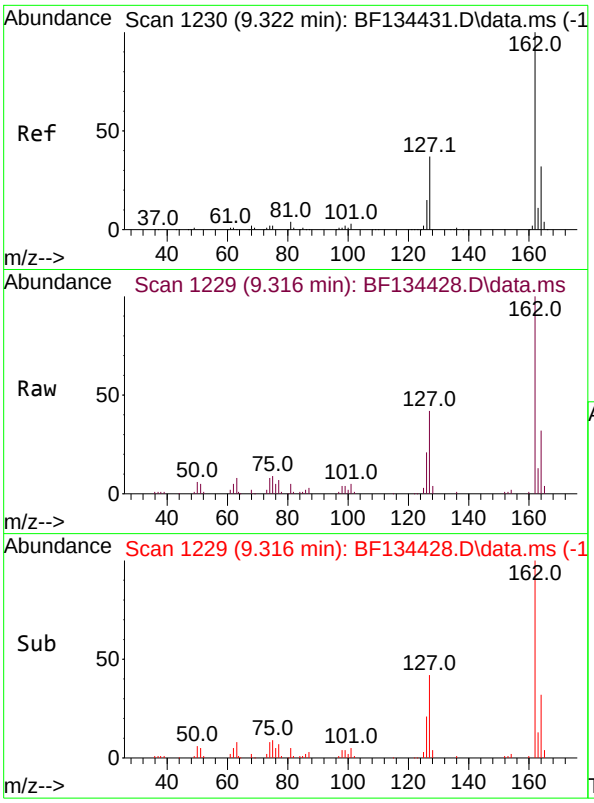


#46
1,1'-Biphenyl
Concen: 5.058 ng
RT: 9.292 min Scan# 1225
Delta R.T. 0.000 min
Lab File: BF134428.D
Acq: 24 Jul 2023 14:19

Tgt Ion:154 Resp: 37382

Ion	Ratio	Lower	Upper
154	100		
153	42.0	20.8	60.8
76	9.5	0.0	30.2

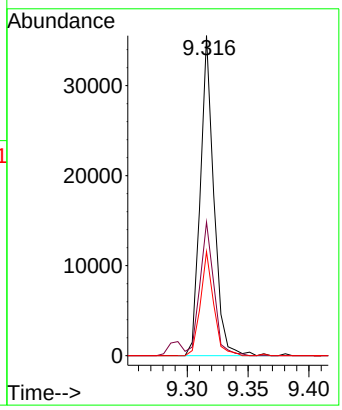




#47
2-Chloronaphthalene
Concen: 5.065 ng
RT: 9.316 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF134428.D
Acq: 24 Jul 2023 14:19

Tgt Ion:162 Resp: 2759

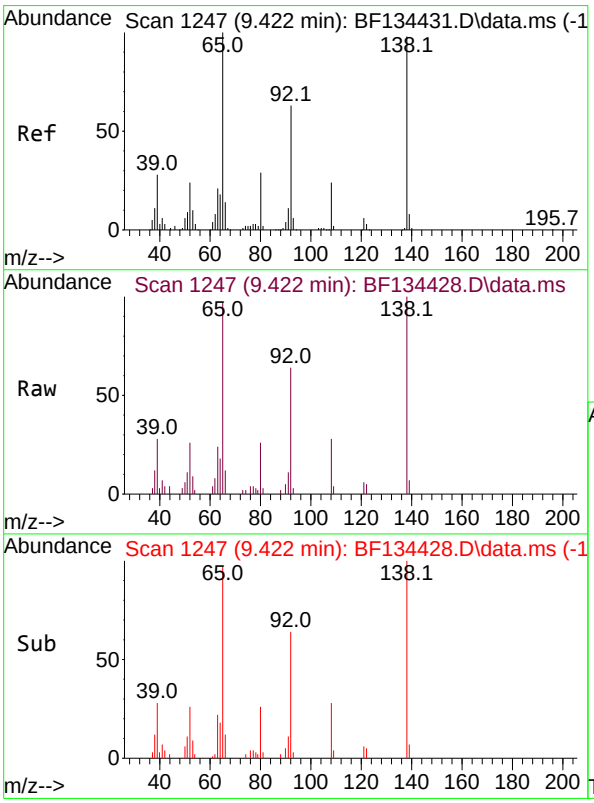
Ion	Ratio	Lower	Upper
162	100		
127	41.7	34.0	51.0
164	32.5	25.7	38.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

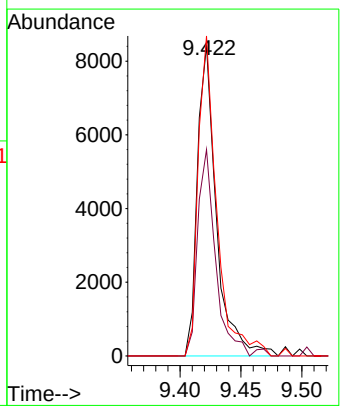
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

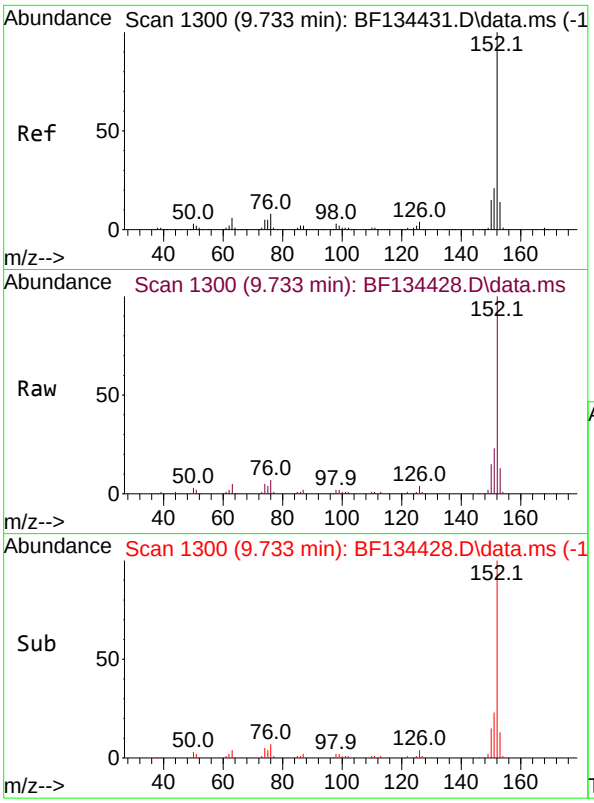


#48
2-Nitroaniline
Concen: 4.658 ng
RT: 9.422 min Scan# 1247
Delta R.T. 0.000 min
Lab File: BF134428.D
Acq: 24 Jul 2023 14:19

Tgt Ion: 65 Resp: 9141

Ion	Ratio	Lower	Upper
65	100		
92	66.5	50.7	76.1
138	103.1	78.2	117.4

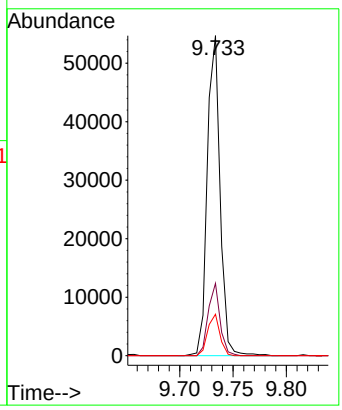




#49
Acenaphthylene
Concen: 4.974 ng
RT: 9.733 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134428.D
Acq: 24 Jul 2023 14:19

Tgt Ion:152 Resp: 4578

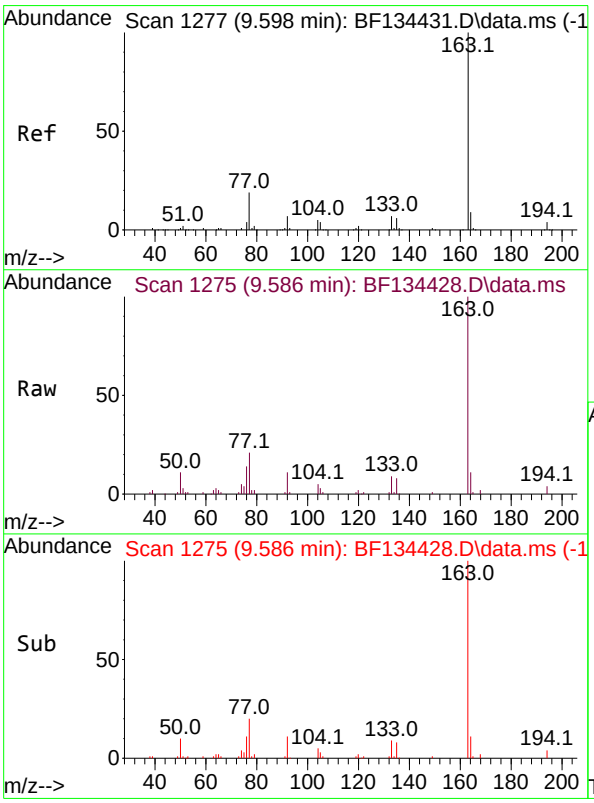
Ion	Ratio	Lower	Upper
152	100		
151	22.6	16.4	24.6
153	12.9	10.9	16.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

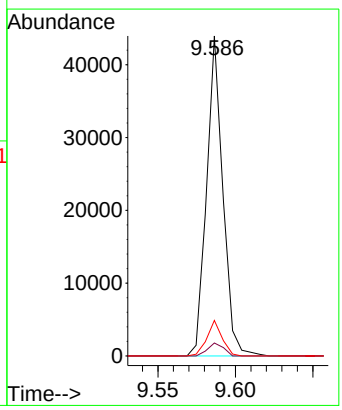
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

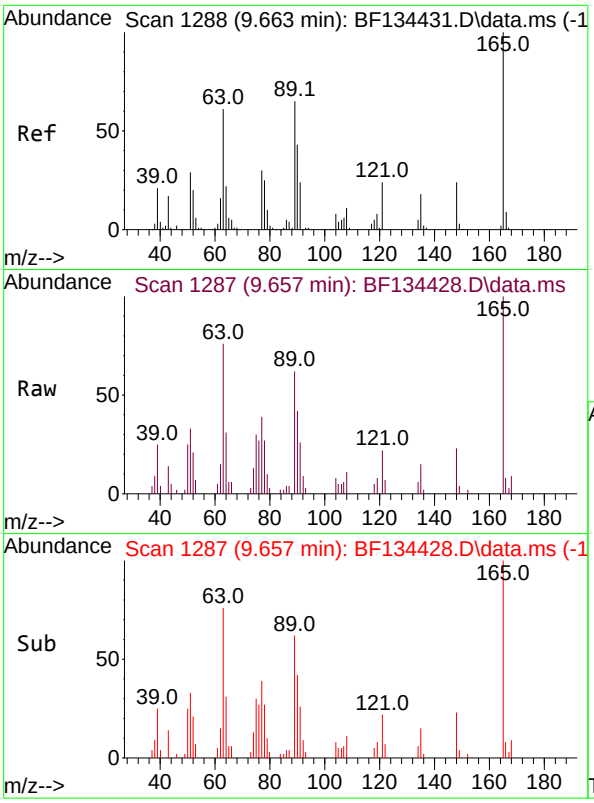


#50
Dimethylphthalate
Concen: 4.832 ng
RT: 9.586 min Scan# 1275
Delta R.T. -0.012 min
Lab File: BF134428.D
Acq: 24 Jul 2023 14:19

Tgt Ion:163 Resp: 32123

Ion	Ratio	Lower	Upper
163	100		
194	4.0	3.3	4.9
164	11.1	7.5	11.3

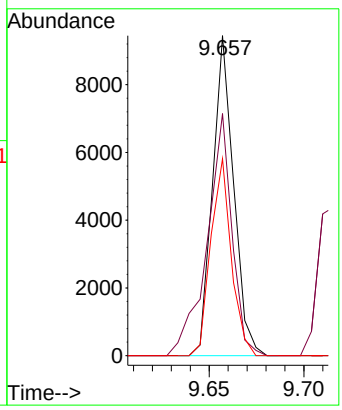




#51
2,6-Dinitrotoluene
Concen: 5.006 ng
RT: 9.657 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF134428.D
Acq: 24 Jul 2023 14:19

Tgt Ion:165 Resp: 730

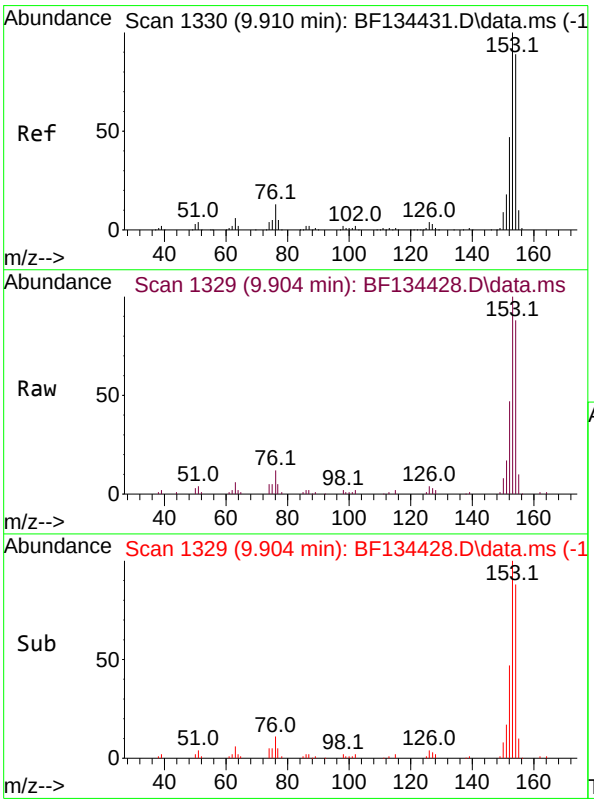
Ion	Ratio	Lower	Upper
165	100		
63	75.7	57.8	86.6
89	61.6	51.8	77.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

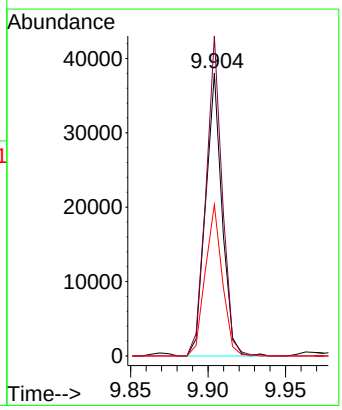
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

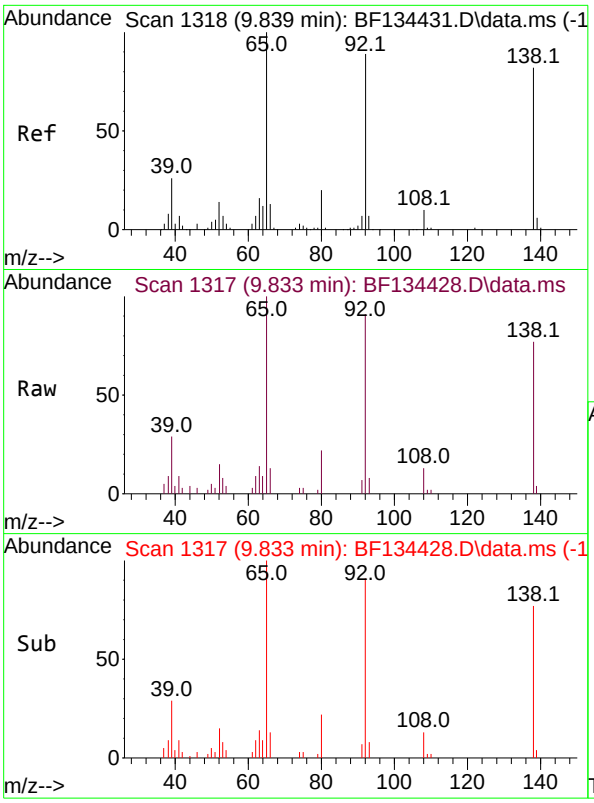


#52
Acenaphthene
Concen: 5.153 ng
RT: 9.904 min Scan# 1329
Delta R.T. -0.006 min
Lab File: BF134428.D
Acq: 24 Jul 2023 14:19

Tgt Ion:154 Resp: 28021

Ion	Ratio	Lower	Upper
154	100		
153	113.2	90.0	135.0
152	53.5	42.4	63.6

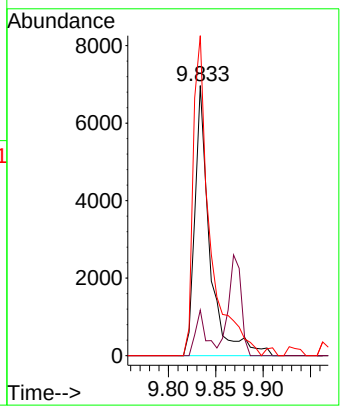




#53
3-Nitroaniline
Concen: 4.602 ng
RT: 9.833 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF134428.D
Acq: 24 Jul 2023 14:19

Tgt Ion:138 Resp: 769

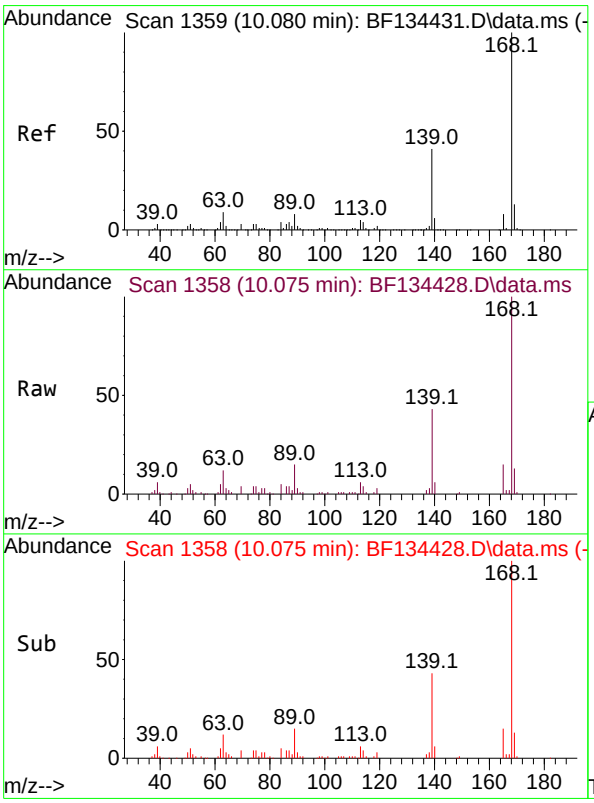
Ion	Ratio	Lower	Upper
138	100		
108	16.9	9.3	13.9
92	118.5	86.6	129.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

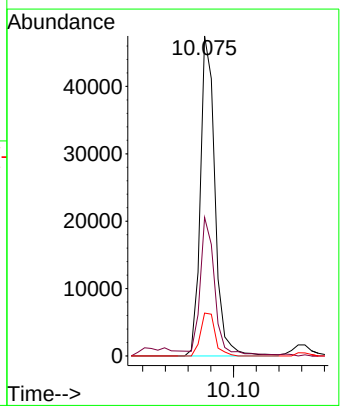
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

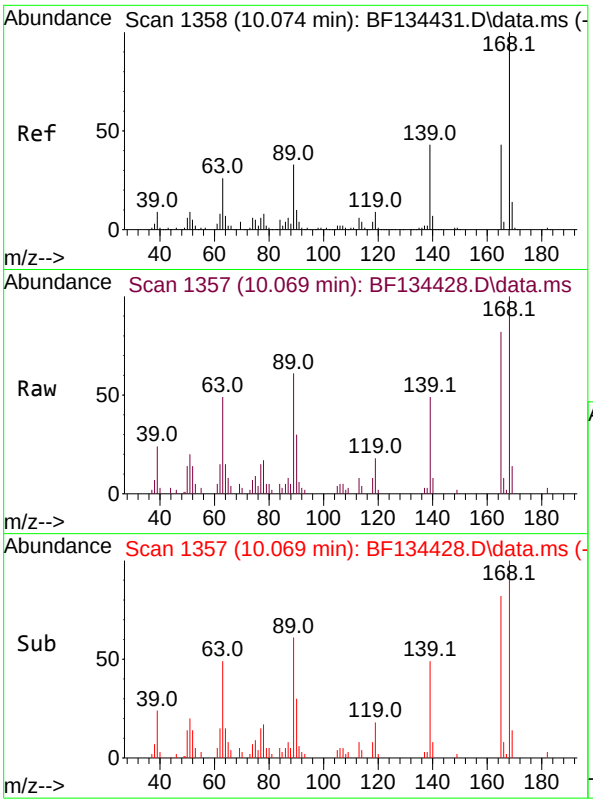


#55
Dibenzofuran
Concen: 5.068 ng
RT: 10.075 min Scan# 1358
Delta R.T. -0.006 min
Lab File: BF134428.D
Acq: 24 Jul 2023 14:19

Tgt Ion:168 Resp: 42412

Ion	Ratio	Lower	Upper
168	100		
139	43.3	33.4	50.2
169	13.4	10.6	15.8

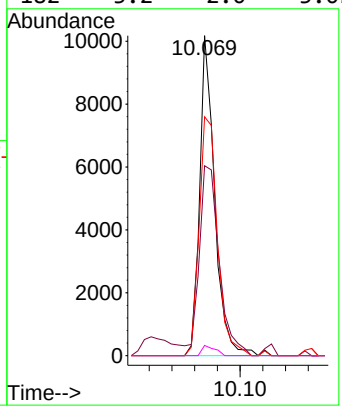




#57
2,4-Dinitrotoluene
Concen: 4.792 ng
RT: 10.069 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF134428.D
Acq: 24 Jul 2023 14:19

Tgt Ion:165 Resp: 938

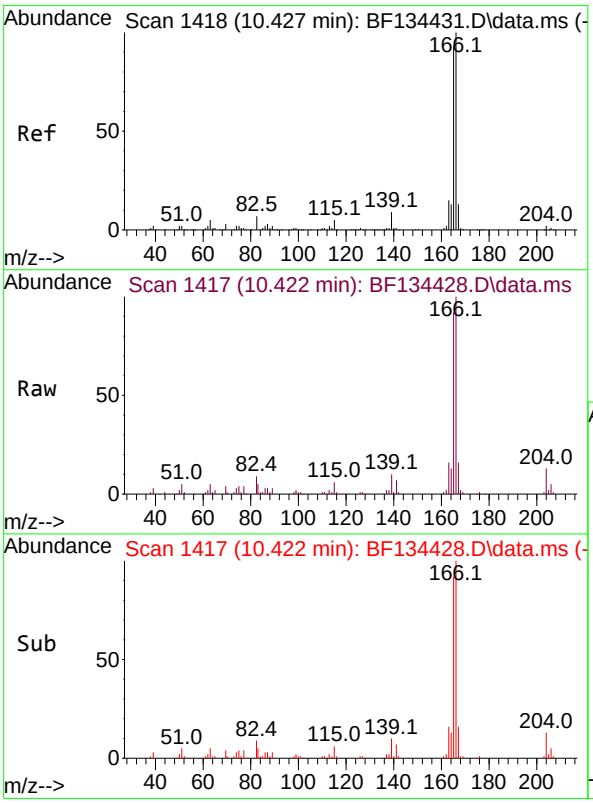
Ion	Ratio	Lower	Upper
165	100		
63	59.4	48.9	73.3
89	74.6	61.7	92.5
182	3.2	2.0	3.0#



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

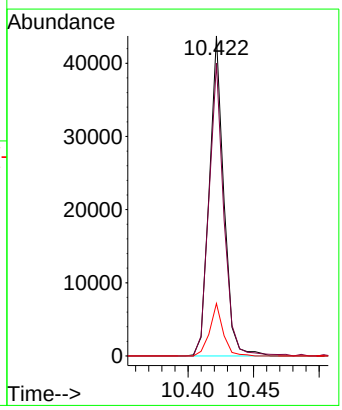
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

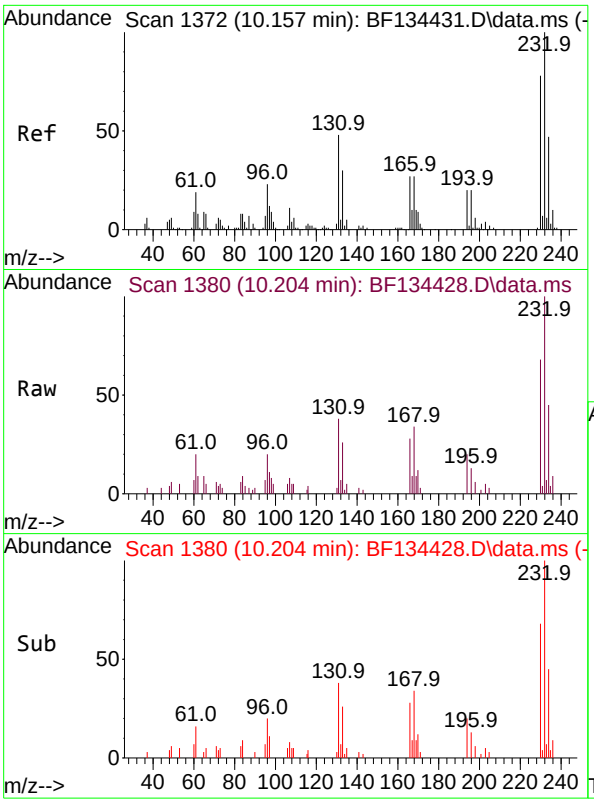


#58
Fluorene
Concen: 4.995 ng
RT: 10.422 min Scan# 1417
Delta R.T. -0.006 min
Lab File: BF134428.D
Acq: 24 Jul 2023 14:19

Tgt Ion:166 Resp: 33722

Ion	Ratio	Lower	Upper
166	100		
165	91.5	74.5	111.7
167	16.4	10.6	16.0#

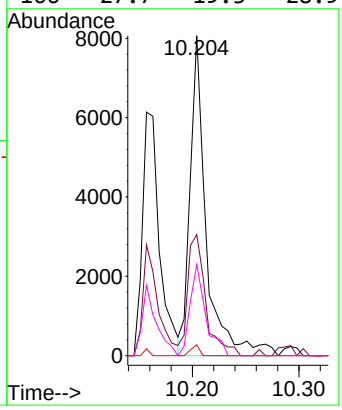




#59
2,3,4,6-Tetrachlorophenol
Concen: 5.200 ng
RT: 10.204 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134428.D
Acq: 24 Jul 2023 14:19

Tgt Ion:232 Resp: 848

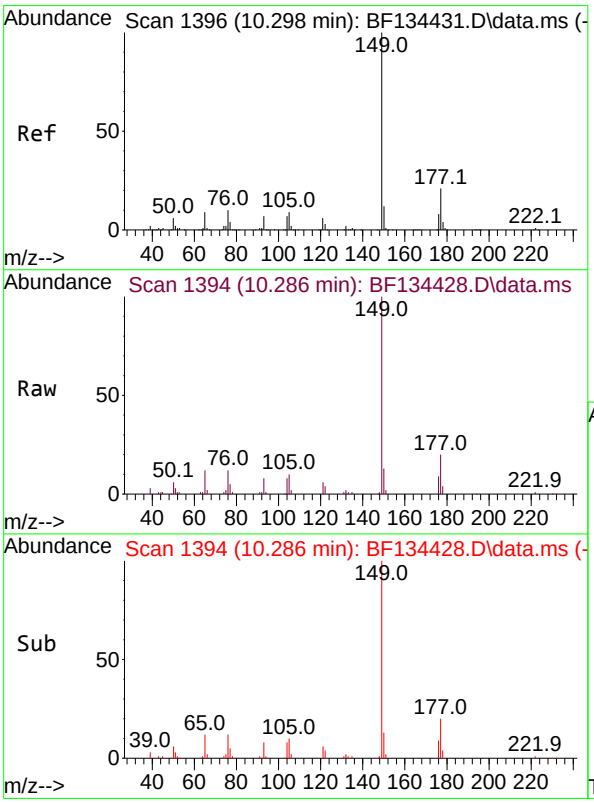
Ion	Ratio	Lower	Upper
232	100		
131	42.2	33.4	50.0
130	1.8	1.8	2.6
166	27.7	19.3	28.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

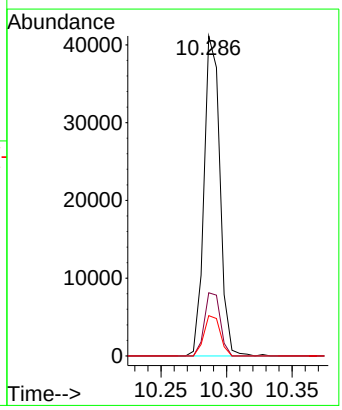
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

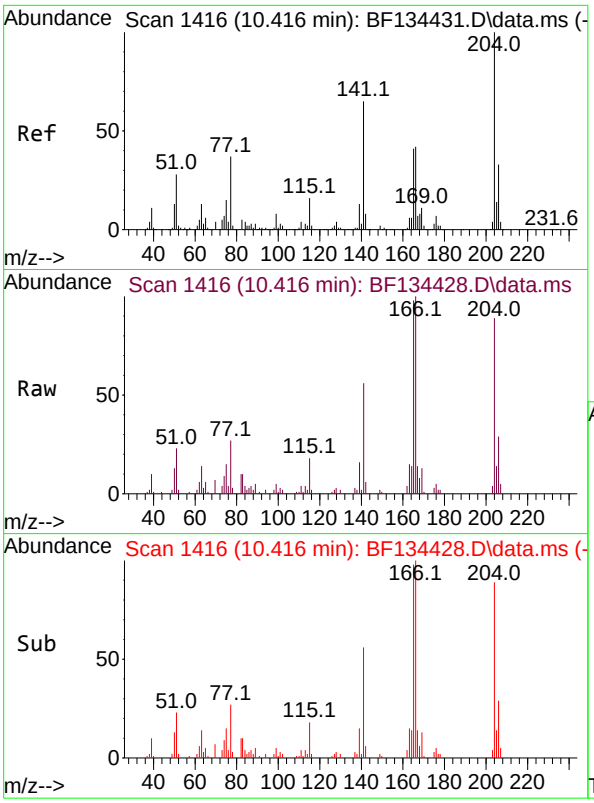


#60
Diethylphthalate
Concen: 5.055 ng
RT: 10.286 min Scan# 1394
Delta R.T. -0.012 min
Lab File: BF134428.D
Acq: 24 Jul 2023 14:19

Tgt Ion:149 Resp: 34792

Ion	Ratio	Lower	Upper
149	100		
177	19.7	17.0	25.4
150	12.6	9.9	14.9





#61
4-Chlorophenyl-phenylether
Concen: 5.045 ng
RT: 10.416 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF134428.D
Acq: 24 Jul 2023 14:19

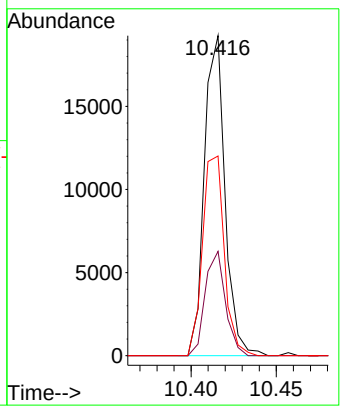
Tgt Ion:204 Resp: 1627

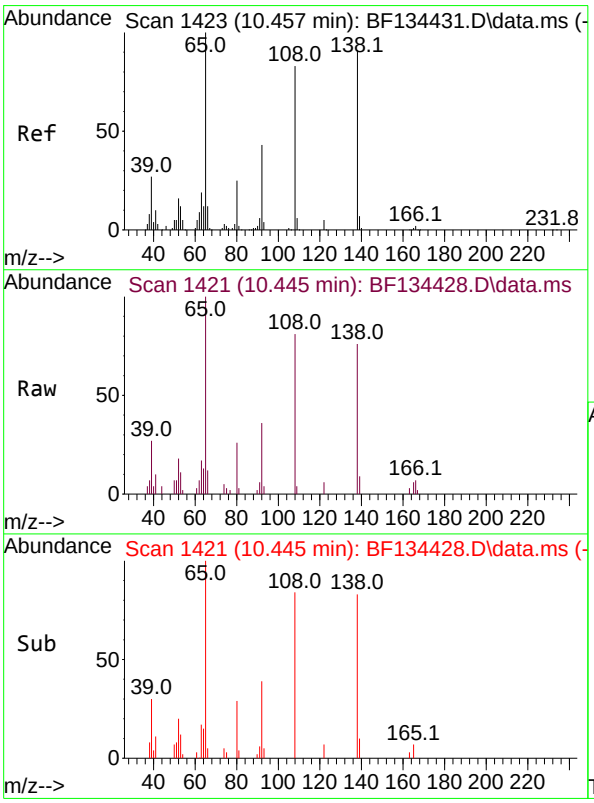
Ion	Ratio	Lower	Upper
204	100		
206	32.6	26.0	39.0
141	62.4	52.2	78.4

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

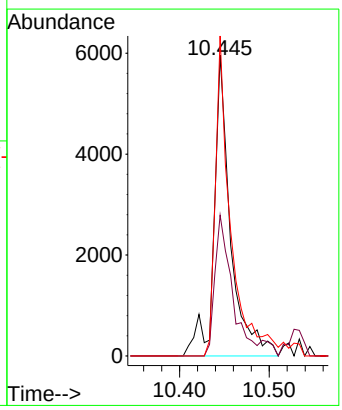


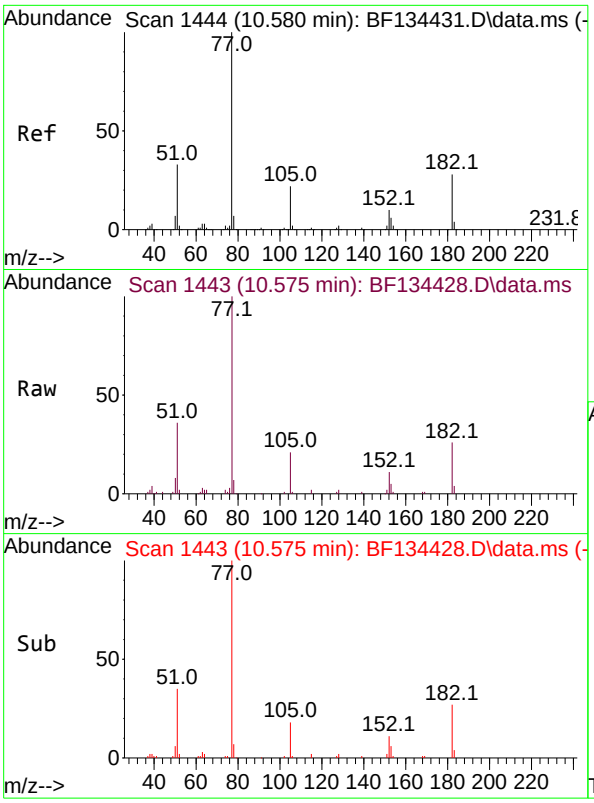


#62
4-Nitroaniline
Concen: 4.570 ng
RT: 10.445 min Scan# 1421
Delta R.T. -0.012 min
Lab File: BF134428.D
Acq: 24 Jul 2023 14:19

Tgt Ion:138 Resp: 7659

Ion	Ratio	Lower	Upper
138	100		
92	46.8	27.0	67.0
108	106.4	70.4	110.4

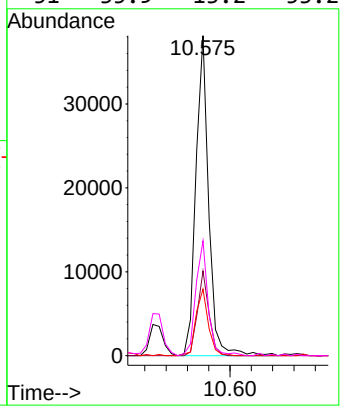




#63
Azobenzene
Concen: 5.046 ng
RT: 10.575 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF134428.D
Acq: 24 Jul 2023 14:19

Tgt Ion: 77 Resp: 31964

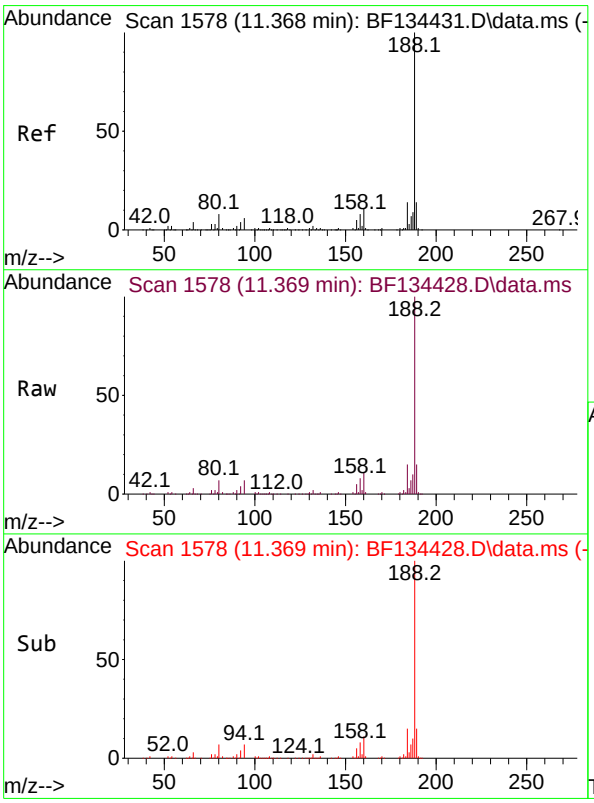
Ion	Ratio	Lower	Upper
77	100		
182	26.5	7.5	47.5
105	20.8	1.9	41.9
51	35.9	13.2	53.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

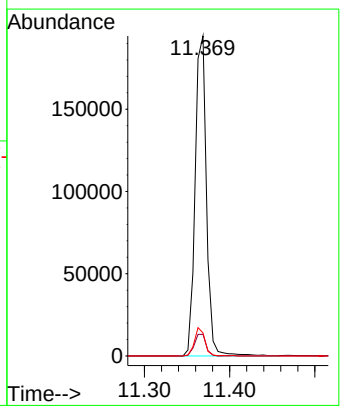
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

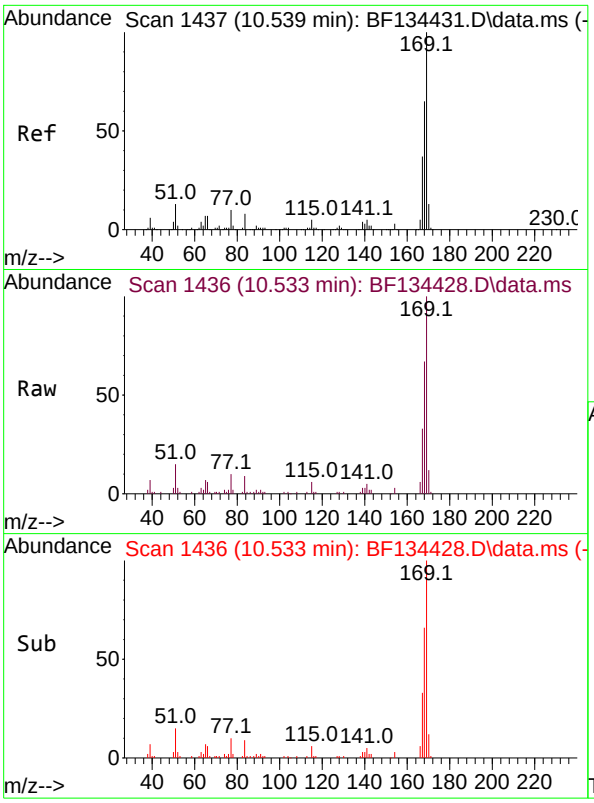


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.369 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BF134428.D
Acq: 24 Jul 2023 14:19

Tgt Ion:188 Resp: 179888

Ion	Ratio	Lower	Upper
188	100		
94	6.7	5.1	7.7
80	7.2	6.6	9.8

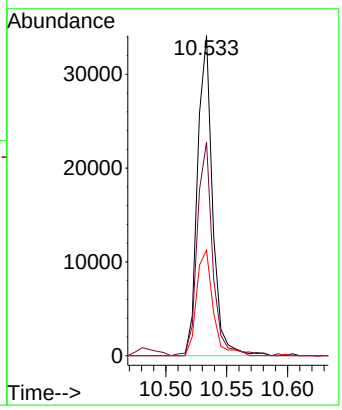




#66
n-Nitrosodiphenylamine
Concen: 5.106 ng
RT: 10.533 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF134428.D
Acq: 24 Jul 2023 14:19

Tgt Ion:169 Resp: 2922

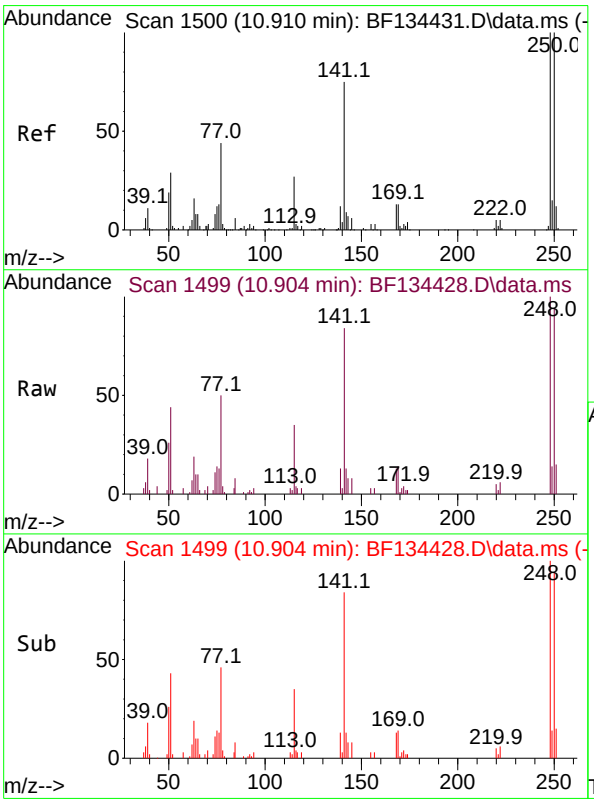
Ion	Ratio	Lower	Upper
169	100		
168	66.8	52.6	78.8
167	33.0	29.8	44.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

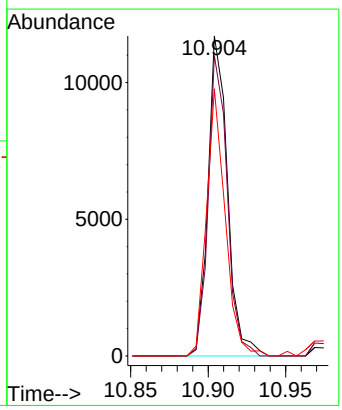
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

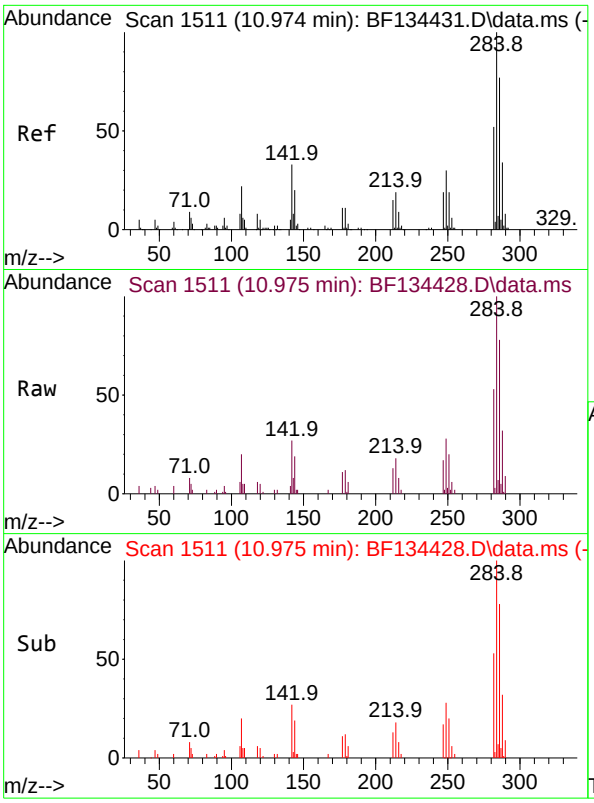


#67
4-Bromophenyl-phenylether
Concen: 5.198 ng
RT: 10.904 min Scan# 1499
Delta R.T. -0.006 min
Lab File: BF134428.D
Acq: 24 Jul 2023 14:19

Tgt Ion:248 Resp: 10245

Ion	Ratio	Lower	Upper
248	100		
250	93.9	79.6	119.4
141	83.5	59.6	89.4

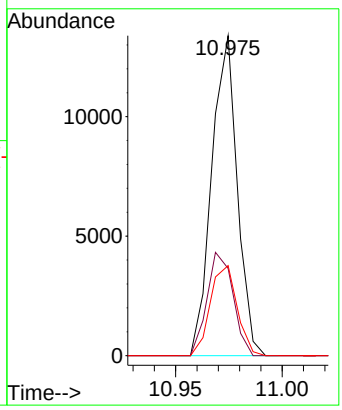




#68
Hexachlorobenzene
Concen: 5.023 ng
RT: 10.975 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134428.D
Acq: 24 Jul 2023 14:19

Tgt Ion:284 Resp: 1114

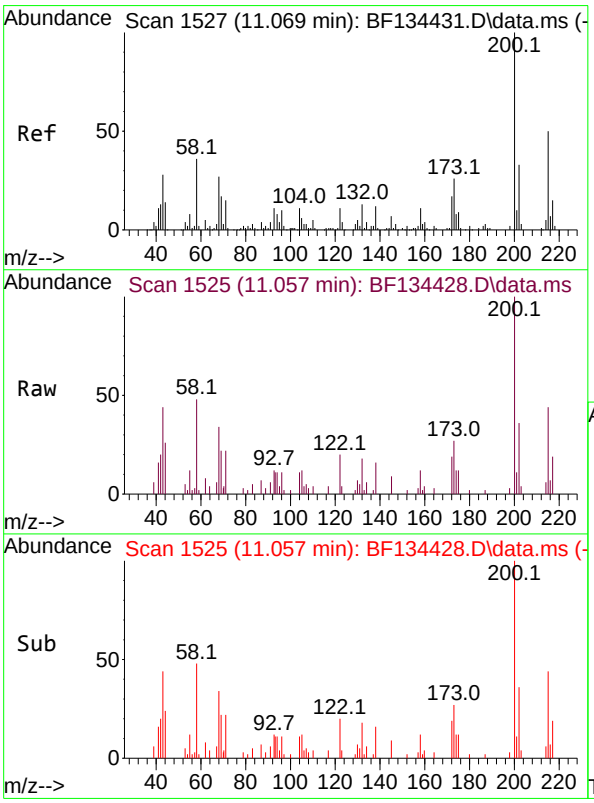
Ion	Ratio	Lower	Upper
284	100		
142	27.2	26.5	39.7
249	28.1	23.8	35.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

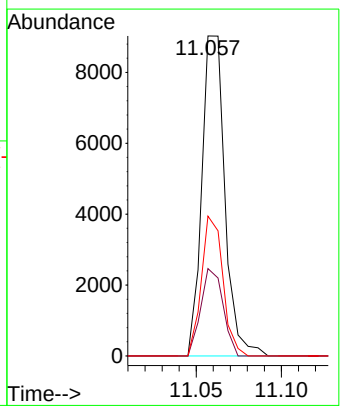
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

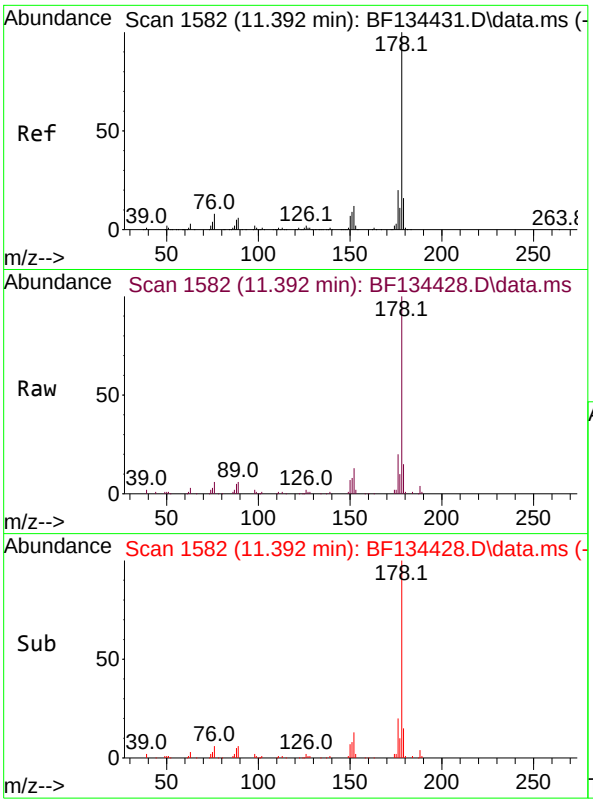


#69
Atrazine
Concen: 5.345 ng
RT: 11.057 min Scan# 1525
Delta R.T. -0.012 min
Lab File: BF134428.D
Acq: 24 Jul 2023 14:19

Tgt Ion:200 Resp: 8528

Ion	Ratio	Lower	Upper
200	100		
173	27.3	6.1	46.1
215	43.7	29.7	69.7

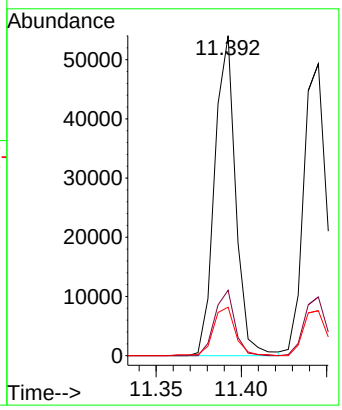




#71
Phenanthrene
Concen: 4.928 ng
RT: 11.392 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134428.D
Acq: 24 Jul 2023 14:19

Tgt Ion:178 Resp: 4631

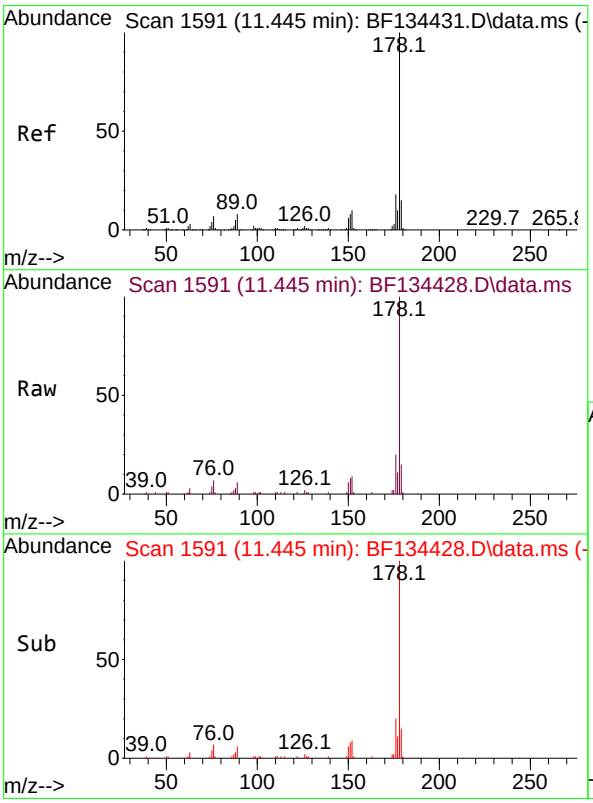
Ion	Ratio	Lower	Upper
178	100		
176	20.5	15.8	23.6
179	15.2	12.7	19.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

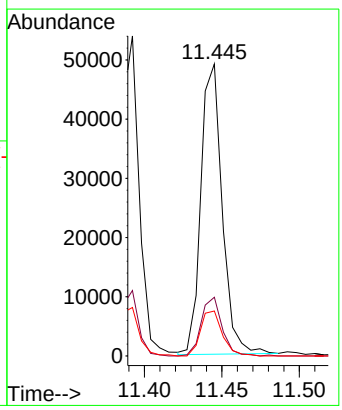
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

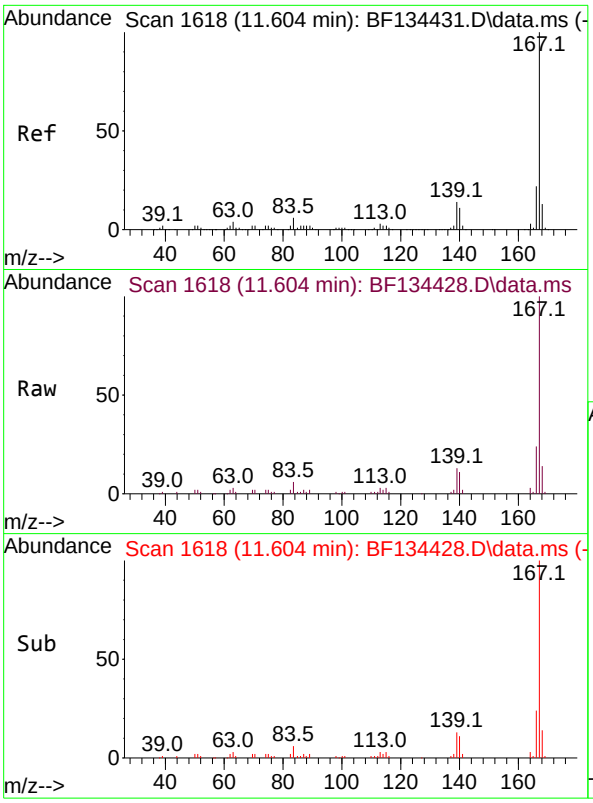


#72
Anthracene
Concen: 4.842 ng
RT: 11.445 min Scan# 1591
Delta R.T. 0.000 min
Lab File: BF134428.D
Acq: 24 Jul 2023 14:19

Tgt Ion:178 Resp: 46973

Ion	Ratio	Lower	Upper
178	100		
176	20.1	14.6	21.8
179	15.4	12.3	18.5

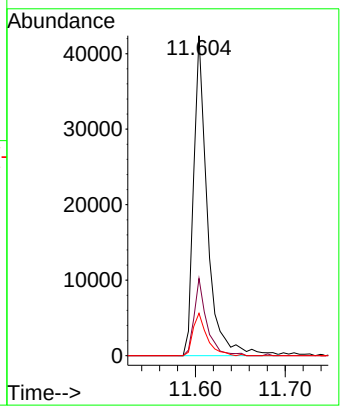




#73
Carbazole
Concen: 4.934 ng
RT: 11.604 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134428.D
Acq: 24 Jul 2023 14:19

Tgt Ion:167 Resp: 4507

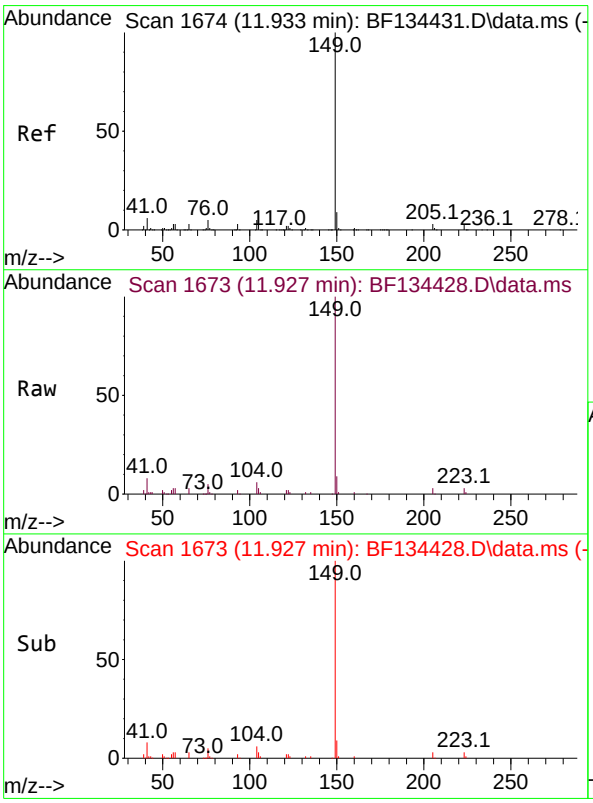
Ion	Ratio	Lower	Upper
167	100		
166	24.2	17.5	26.3
139	13.3	11.0	16.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

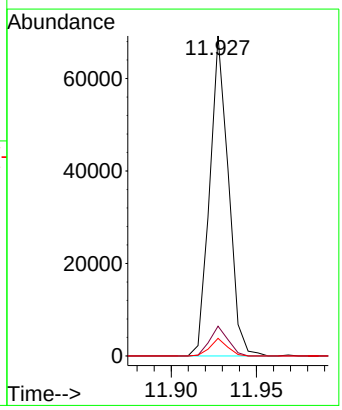
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

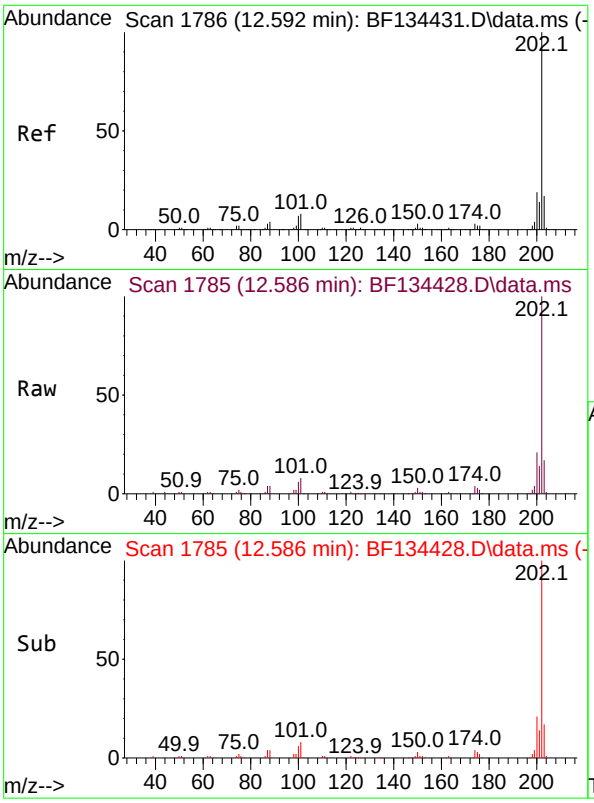


#74
Di-n-butylphthalate
Concen: 5.061 ng
RT: 11.927 min Scan# 1673
Delta R.T. -0.006 min
Lab File: BF134428.D
Acq: 24 Jul 2023 14:19

Tgt Ion:149 Resp: 53069

Ion	Ratio	Lower	Upper
149	100		
150	9.3	7.2	10.8
104	5.5	3.8	5.8

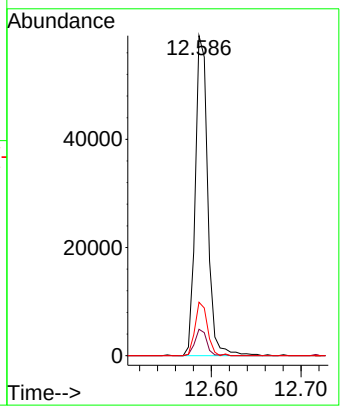




#75
Fluoranthene
Concen: 5.202 ng
RT: 12.586 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF134428.D
Acq: 24 Jul 2023 14:19

Tgt Ion:202 Resp: 5698

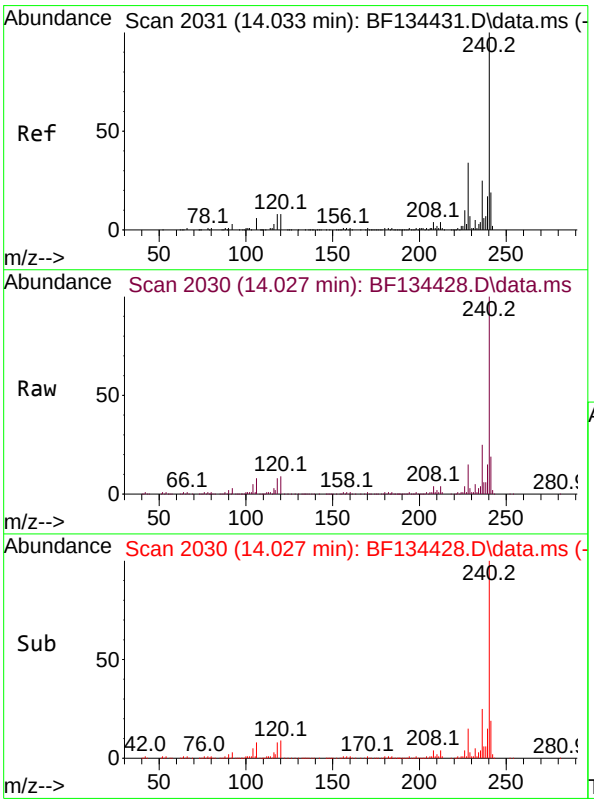
Ion	Ratio	Lower	Upper
202	100		
101	8.3	0.0	28.5
203	16.7	0.0	37.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

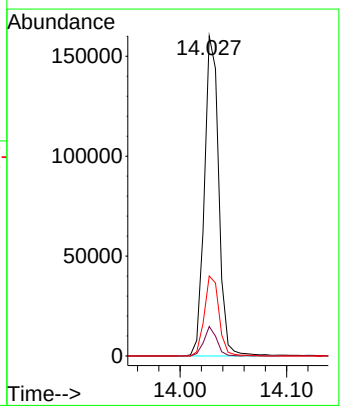
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

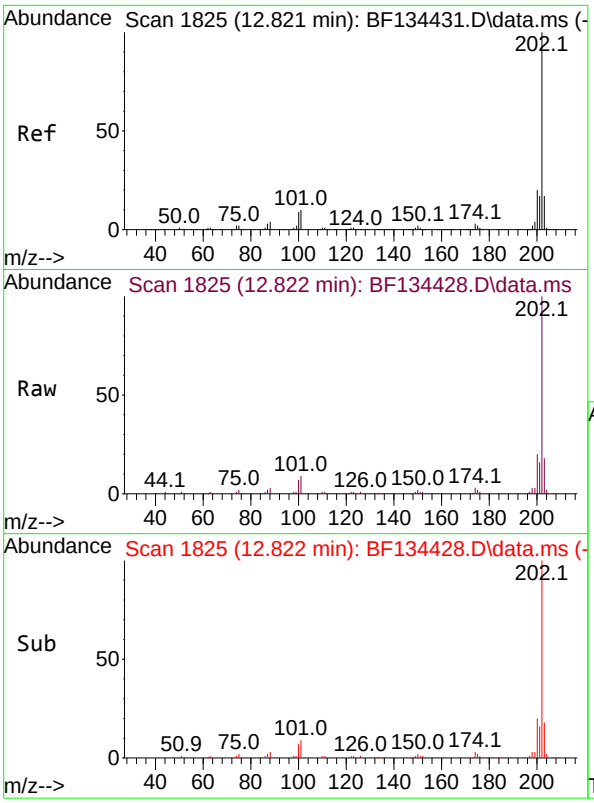


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.027 min Scan# 2030
Delta R.T. -0.006 min
Lab File: BF134428.D
Acq: 24 Jul 2023 14:19

Tgt Ion:240 Resp: 150240

Ion	Ratio	Lower	Upper
240	100		
120	9.2	6.6	10.0
236	25.0	20.2	30.2

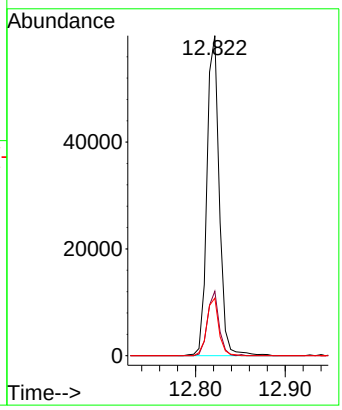




#78
Pyrene
Concen: 4.782 ng
RT: 12.822 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134428.D
Acq: 24 Jul 2023 14:19

Tgt Ion:202 Resp: 5713

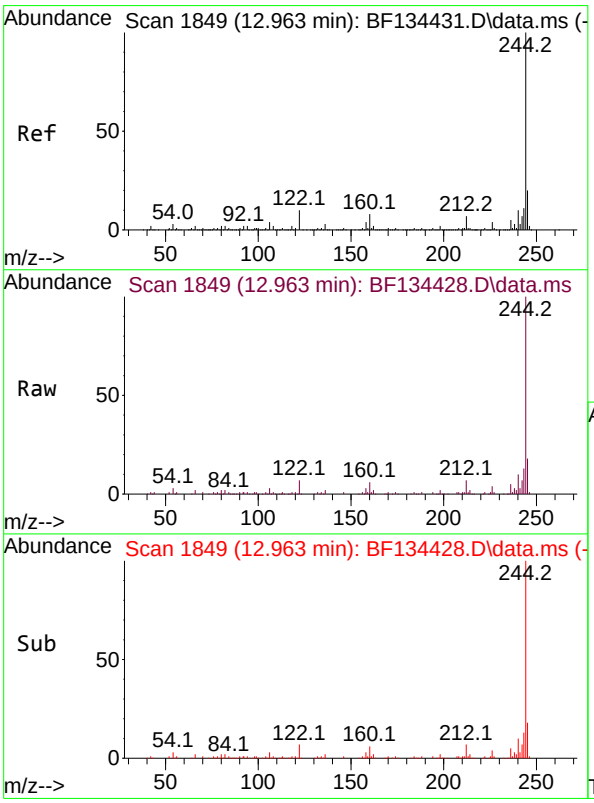
Ion	Ratio	Lower	Upper
202	100		
200	20.1	15.8	23.8
203	18.0	13.5	20.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

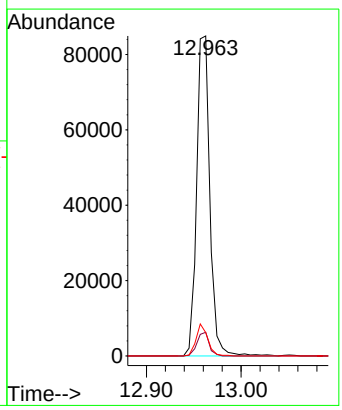
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

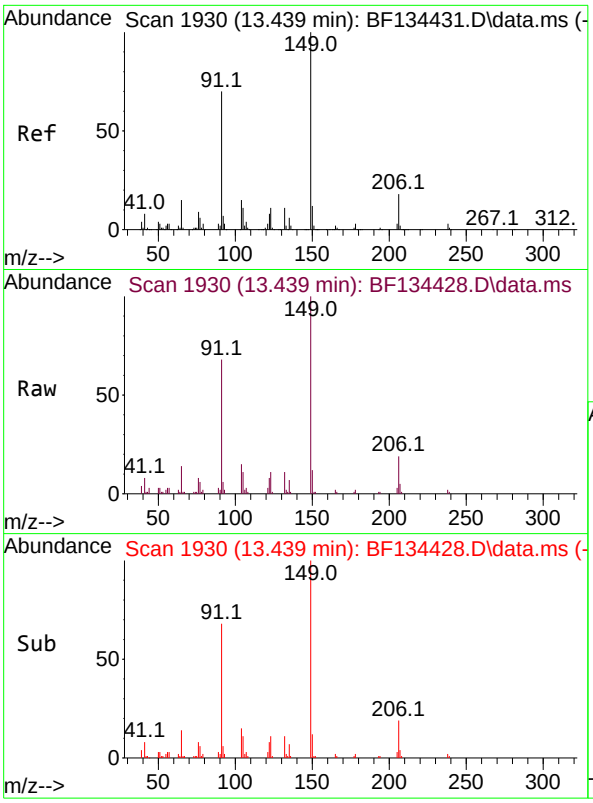


#79
Terphenyl-d14
Concen: 9.605 ng
RT: 12.963 min Scan# 1849
Delta R.T. 0.000 min
Lab File: BF134428.D
Acq: 24 Jul 2023 14:19

Tgt Ion:244 Resp: 82669

Ion	Ratio	Lower	Upper
244	100		
212	7.4	5.6	8.4
122	7.3	8.0	12.0#

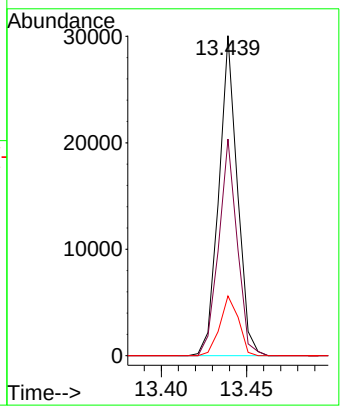




#80
Butylbenzylphthalate
Concen: 4.742 ng
RT: 13.439 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134428.D
Acq: 24 Jul 2023 14:19

Tgt Ion:149 Resp: 2269

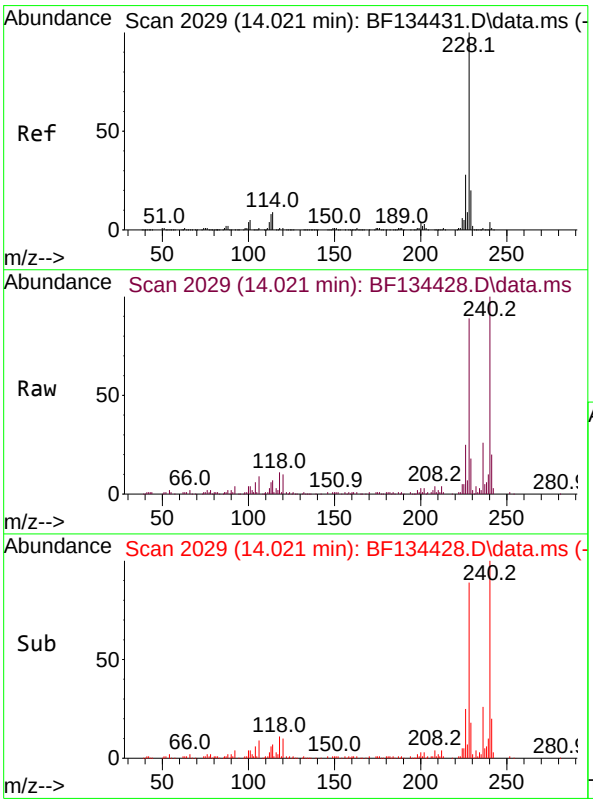
Ion	Ratio	Lower	Upper
149	100		
91	67.7	55.8	83.6
206	18.6	14.6	21.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

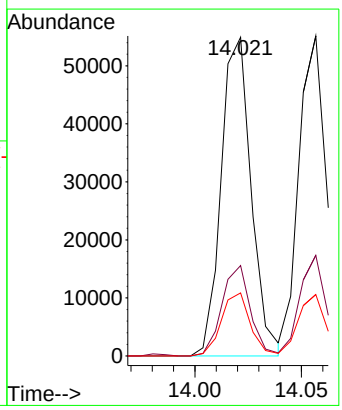
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

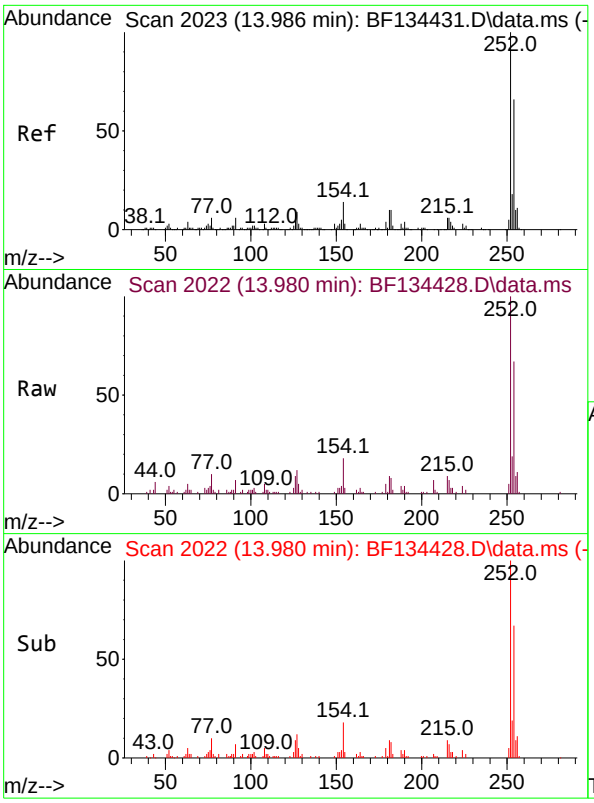


#81
Benzo(a)anthracene
Concen: 5.142 ng
RT: 14.021 min Scan# 2029
Delta R.T. 0.000 min
Lab File: BF134428.D
Acq: 24 Jul 2023 14:19

Tgt Ion:228 Resp: 53902

Ion	Ratio	Lower	Upper
228	100		
226	28.4	22.3	33.5
229	19.8	15.8	23.6

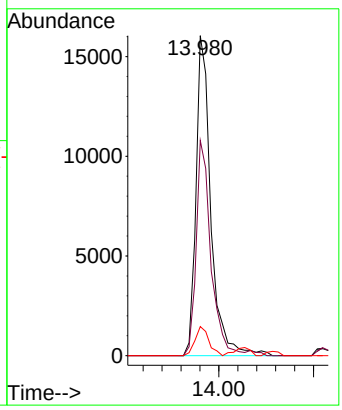




#82
3,3'-Dichlorobenzidine
Concen: 5.278 ng
RT: 13.980 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF134428.D
Acq: 24 Jul 2023 14:19

Tgt Ion:252 Resp: 1752

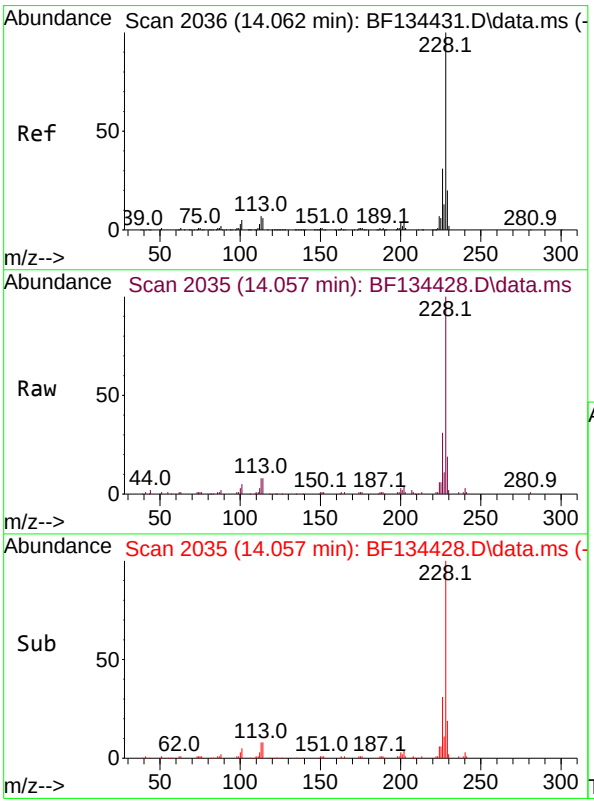
Ion	Ratio	Lower	Upper
252	100		
254	67.2	52.7	79.1
126	9.1	7.2	10.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

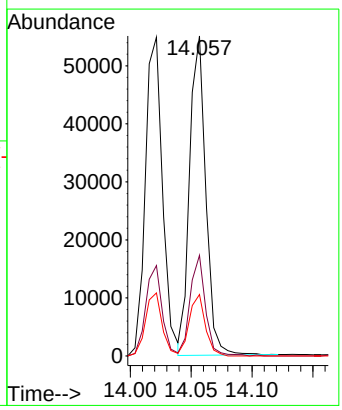
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

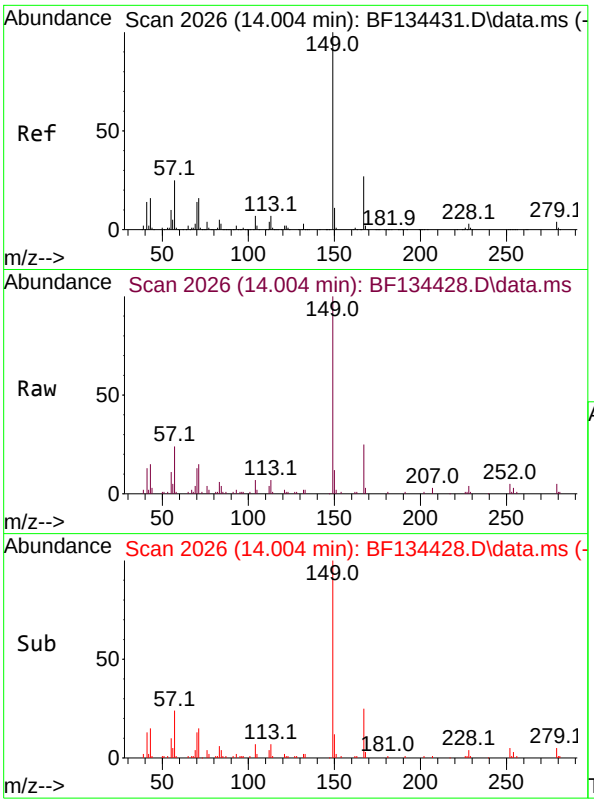


#83
Chrysene
Concen: 5.069 ng
RT: 14.057 min Scan# 2035
Delta R.T. -0.006 min
Lab File: BF134428.D
Acq: 24 Jul 2023 14:19

Tgt Ion:228 Resp: 50825

Ion	Ratio	Lower	Upper
228	100		
226	31.5	24.5	36.7
229	19.2	15.8	23.8





#84
Bis(2-ethylhexyl)phthalate
Concen: 5.024 ng
RT: 14.004 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF134428.D
Acq: 24 Jul 2023 14:19

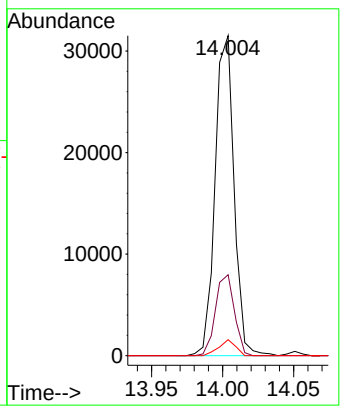
Tgt Ion:149 Resp: 2920

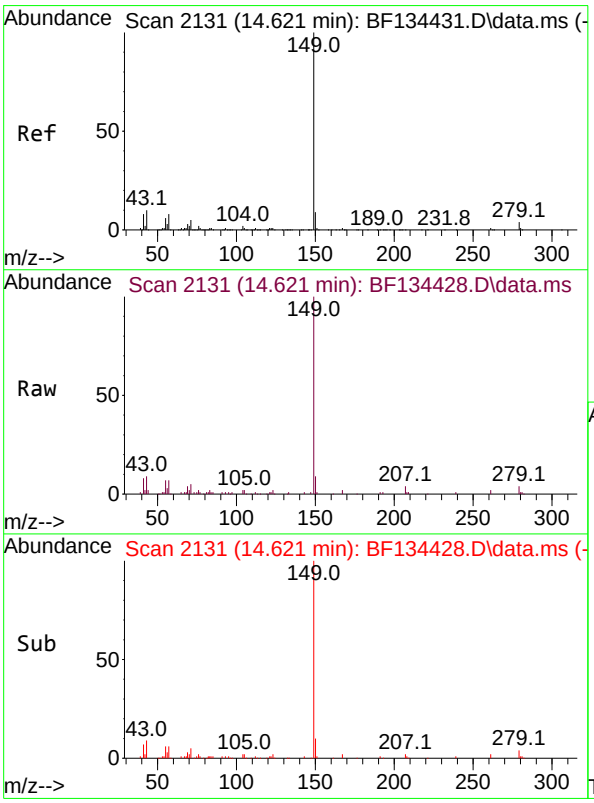
Ion	Ratio	Lower	Upper
149	100		
167	25.3	21.6	32.4
279	5.0	3.5	5.3

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

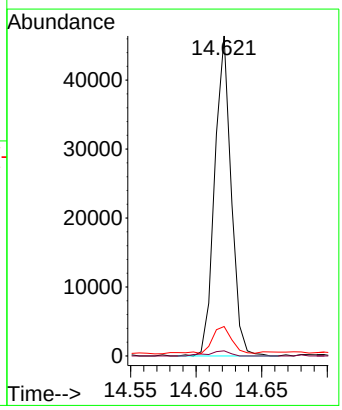


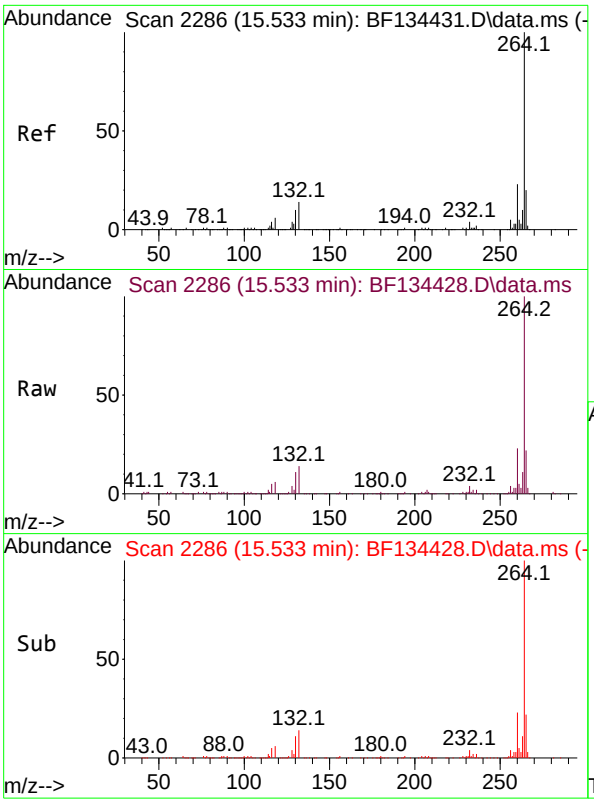


#85
Di-n-octyl phthalate
Concen: 5.014 ng
RT: 14.621 min Scan# 2131
Delta R.T. 0.000 min
Lab File: BF134428.D
Acq: 24 Jul 2023 14:19

Tgt Ion:149 Resp: 40509

Ion	Ratio	Lower	Upper
149	100		
167	2.1	1.2	1.8#
43	9.6	8.1	12.1

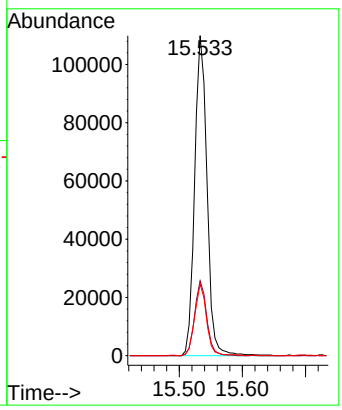




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.533 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF134428.D
Acq: 24 Jul 2023 14:19

Tgt Ion:264 Resp: 14930

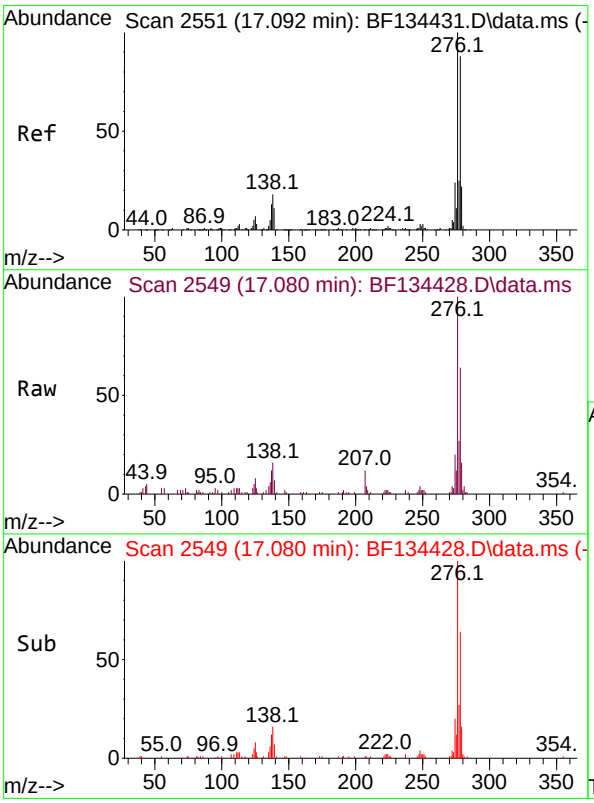
Ion	Ratio	Lower	Upper
264	100		
260	23.4	18.4	27.6
265	22.4	15.8	23.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

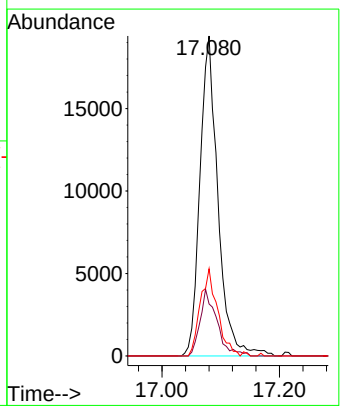
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

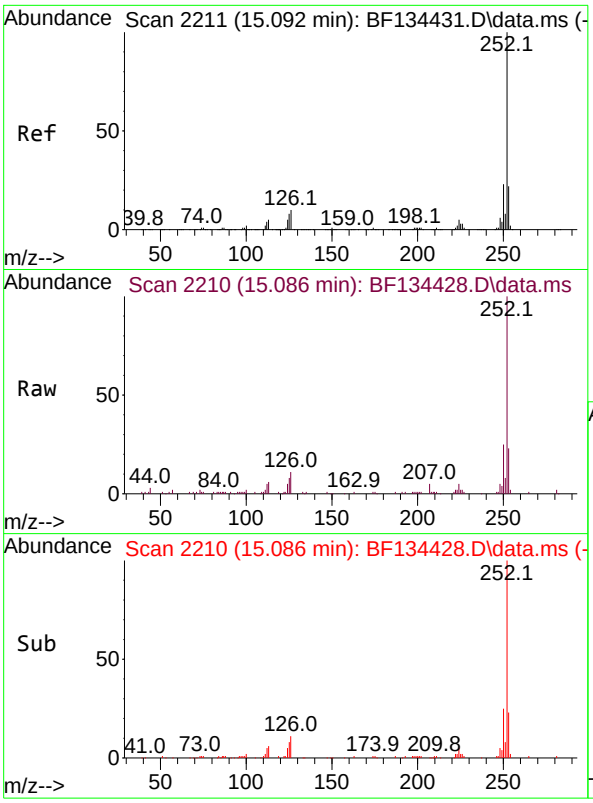


#87
Indeno(1,2,3-cd)pyrene
Concen: 4.212 ng
RT: 17.080 min Scan# 2549
Delta R.T. -0.012 min
Lab File: BF134428.D
Acq: 24 Jul 2023 14:19

Tgt Ion:276 Resp: 41084

Ion	Ratio	Lower	Upper
276	100		
138	19.4	14.2	21.4
277	26.1	19.9	29.9

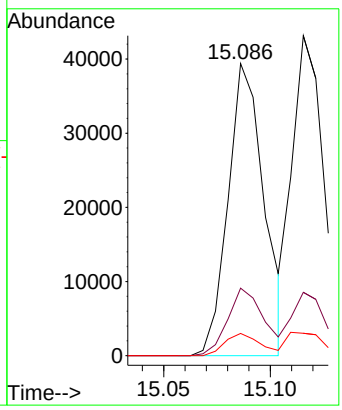




#88
Benzo(b)fluoranthene
Concen: 4.973 ng
RT: 15.086 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF134428.D
Acq: 24 Jul 2023 14:19

Tgt Ion:252 Resp: 4644

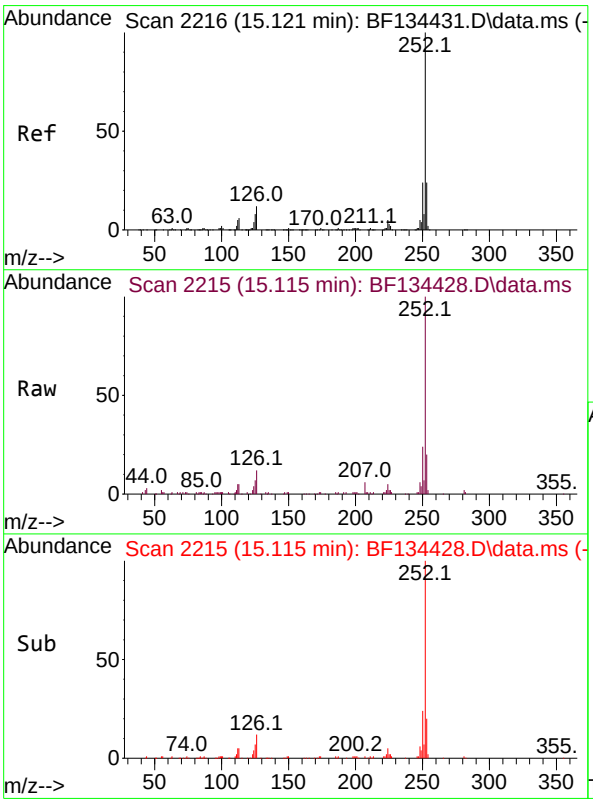
Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.3	25.9
125	7.6	6.0	9.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

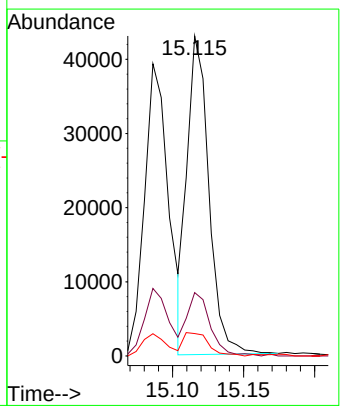
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

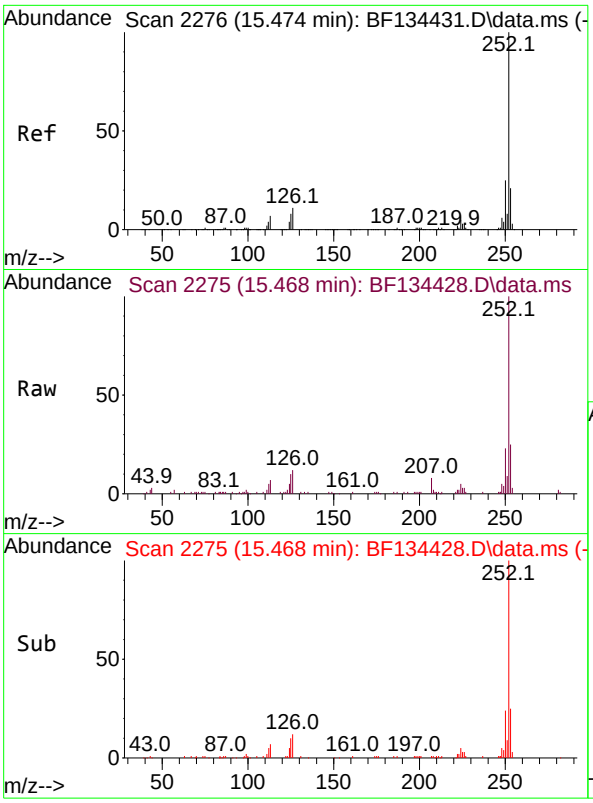


#89
Benzo(k)fluoranthene
Concen: 4.995 ng
RT: 15.115 min Scan# 2215
Delta R.T. -0.006 min
Lab File: BF134428.D
Acq: 24 Jul 2023 14:19

Tgt Ion:252 Resp: 45855

Ion	Ratio	Lower	Upper
252	100		
253	19.8	17.9	26.9
125	7.0	6.3	9.5

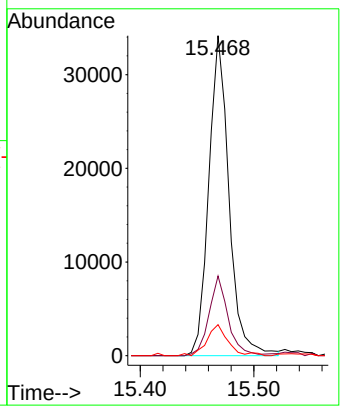




#90
Benzo(a)pyrene
Concen: 4.877 ng
RT: 15.468 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF134428.D
Acq: 24 Jul 2023 14:19

Tgt Ion:252 Resp: 4210

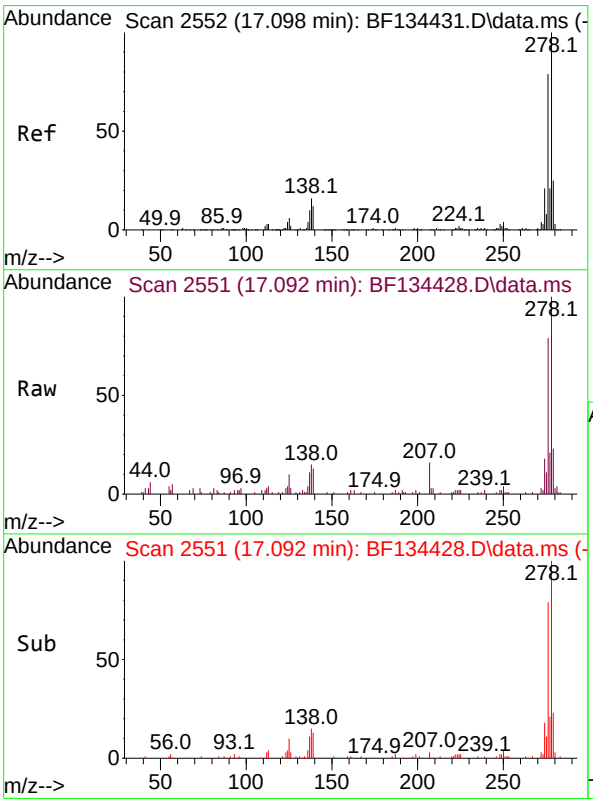
Ion	Ratio	Lower	Upper
252	100		
253	24.9	17.0	25.4
125	9.7	6.2	9.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

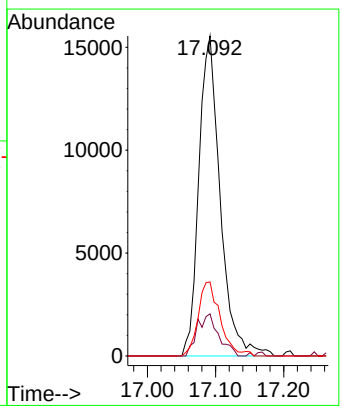
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

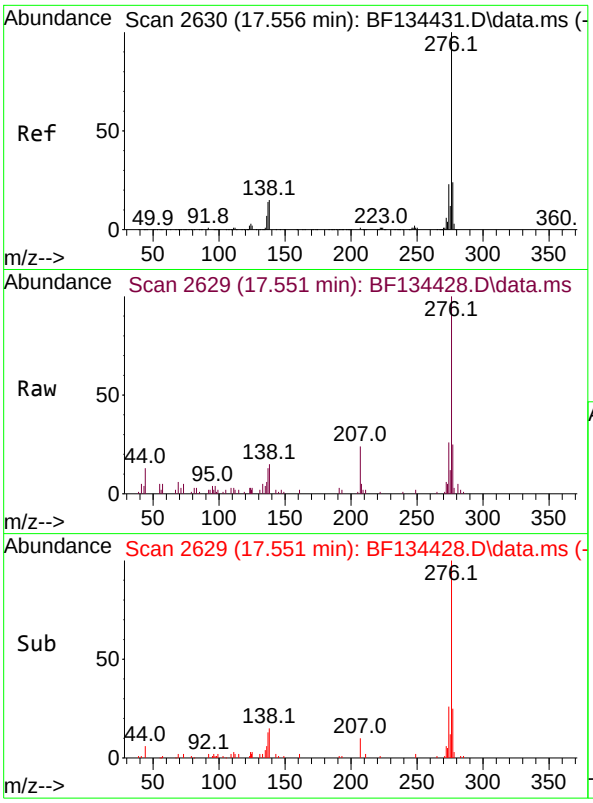


#91
Dibenzo(a,h)anthracene
Concen: 4.307 ng
RT: 17.092 min Scan# 2551
Delta R.T. -0.006 min
Lab File: BF134428.D
Acq: 24 Jul 2023 14:19

Tgt Ion:278 Resp: 33930

Ion	Ratio	Lower	Upper
278	100		
139	13.1	10.0	15.0
279	23.1	19.7	29.5

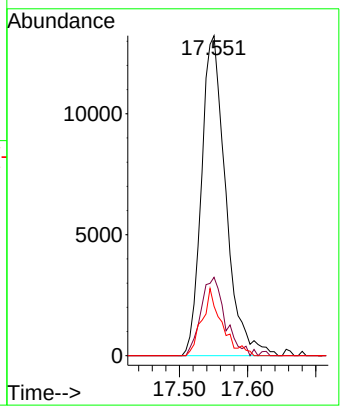




#92
Benzo(g,h,i)perylene
Concen: 4.050 ng
RT: 17.551 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF134428.D
Acq: 24 Jul 2023 14:19

Tgt Ion:276 Resp: 3275

Ion	Ratio	Lower	Upper
276	100		
277	24.5	19.0	28.6
138	15.4	12.2	18.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF072423\
Data File : BF134429.D
Acq On : 24 Jul 2023 14:53
Operator : CG\JU
Sample : SSTDICC010
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 25 01:32:26 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF072423.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 25 01:30:14 2023
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.834	152	50610	20.000	ng		0.00
21) Naphthalene-d8	8.116	136	188067	20.000	ng		0.00
39) Acenaphthene-d10	9.869	164	92918	20.000	ng		0.00
64) Phenanthrene-d10	11.369	188	181268	20.000	ng		0.00
76) Chrysene-d12	14.027	240	156648	20.000	ng		0.00
86) Perylene-d12	15.533	264	147998	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.469	112	62321	20.345	ng		0.00
7) Phenol-d6	6.469	99	79436	21.166	ng		-0.01
23) Nitrobenzene-d5	7.392	82	74456	20.030	ng		-0.01
42) 2,4,6-Tribromophenol	10.663	330	25469	19.292	ng		0.00
45) 2-Fluorobiphenyl	9.186	172	148116	20.927	ng		0.00
79) Terphenyl-d14	12.957	244	175291	19.534	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.593	88	13081	10.068	ng		95
3) Pyridine	3.404	79	28555m	9.807	ng		
4) n-Nitrosodimethylamine	3.334	42	16180m	9.387	ng		
6) Aniline	6.498	93	47148	10.659	ng		91
8) 2-Chlorophenol	6.622	128	32417	10.446	ng		98
9) Benzaldehyde	6.392	77	23560	11.722	ng		92
10) Phenol	6.487	94	39697	10.166	ng		91
11) bis(2-Chloroethyl)ether	6.569	93	28084	10.302	ng		91
12) 1,3-Dichlorobenzene	6.775	146	34234	10.259	ng		99
13) 1,4-Dichlorobenzene	6.851	146	35417	10.313	ng		99
14) 1,2-Dichlorobenzene	7.004	146	33882	10.503	ng		98
15) Benzyl Alcohol	6.975	79	28384m	9.892	ng		
16) 2,2'-oxybis(1-Chloropr...	7.110	45	42826	10.668	ng		99
17) 2-Methylphenol	7.092	107	28141	10.168	ng		97
18) Hexachloroethane	7.339	117	14139	10.717	ng		94
19) n-Nitroso-di-n-propyla...	7.239	70	24433	10.458	ng		97
20) 3+4-Methylphenols	7.245	107	38425	10.844	ng		92
22) Acetophenone	7.239	105	49129	10.504	ng		91
24) Nitrobenzene	7.416	77	36702	9.928	ng		96
25) Isophorone	7.651	82	63024	10.173	ng		97
26) 2-Nitrophenol	7.734	139	16963	9.977	ng		98
27) 2,4-Dimethylphenol	7.769	122	27579	10.278	ng		94
28) bis(2-Chloroethoxy)met...	7.863	93	34833	10.102	ng		100
29) 2,4-Dichlorophenol	7.981	162	27560	10.275	ng		94
30) 1,2,4-Trichlorobenzene	8.057	180	29839	10.313	ng		96
31) Naphthalene	8.133	128	97997	10.470	ng		99
32) Benzoic acid	7.857	122	15774m	8.903	ng		
33) 4-Chloroaniline	8.186	127	39253	10.146	ng		94
34) Hexachlorobutadiene	8.245	225	20206	10.425	ng		97
35) Caprolactam	8.533	113	8605	10.512	ng	#	90
36) 4-Chloro-3-methylphenol	8.675	107	31575	10.202	ng		98
37) 2-Methylnaphthalene	8.828	142	66817	10.274	ng		100
38) 1-Methylnaphthalene	8.928	142	60604	10.045	ng		96
40) 1,2,4,5-Tetrachloroben...	8.992	216	30709	10.429	ng		100
41) Hexachlorocyclopentadiene	8.975	237	2796	10.522	ng		93
43) 2,4,6-Trichlorophenol	9.110	196	19015	10.066	ng		98

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF072423\
Data File : BF134429.D
Acq On : 24 Jul 2023 14:53
Operator : CG\JU
Sample : SSTDICC010
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 25 01:32:26 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF072423.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 25 01:30:14 2023
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.157	196	20999	9.541	ng		90
46) 1,1'-Biphenyl	9.292	154	77991	10.184	ng		97
47) 2-Chloronaphthalene	9.316	162	58001	10.273	ng		98
48) 2-Nitroaniline	9.422	65	19410	9.546	ng		94
49) Acenaphthylene	9.733	152	98204	10.296	ng		96
50) Dimethylphthalate	9.586	163	69138	10.037	ng		98
51) 2,6-Dinitrotoluene	9.657	165	14700	9.726	ng		100
52) Acenaphthene	9.904	154	55738	9.892	ng		97
53) 3-Nitroaniline	9.833	138	17407	10.045	ng	#	97
54) 2,4-Dinitrophenol	9.957	184	4115	11.333	ng	#	82
55) Dibenzofuran	10.080	168	86959	10.028	ng		98
56) 4-Nitrophenol	10.016	139	7121	7.706	ng	#	84
57) 2,4-Dinitrotoluene	10.069	165	19626	9.668	ng		95
58) Fluorene	10.422	166	71096	10.162	ng		98
59) 2,3,4,6-Tetrachlorophenol	10.204	232	16213m	9.552	ng		
60) Diethylphthalate	10.292	149	71766	10.063	ng		98
61) 4-Chlorophenyl-phenyle...	10.416	204	33175	9.927	ng		96
62) 4-Nitroaniline	10.445	138	17192	9.674	ng		86
63) Azobenzene	10.575	77	64868	9.882	ng		98
65) 4,6-Dinitro-2-methylph...	10.480	198	8586	8.257	ng		94
66) n-Nitrosodiphenylamine	10.533	169	59573	10.330	ng		96
67) 4-Bromophenyl-phenylether	10.904	248	20065	10.103	ng	#	89
68) Hexachlorobenzene	10.975	284	23486	10.501	ng		93
69) Atrazine	11.063	200	17231	10.716	ng		97
70) Pentachlorophenol	11.180	266	8149m	8.682	ng		
71) Phenanthrene	11.392	178	100027	10.561	ng		99
72) Anthracene	11.445	178	102739	10.510	ng		97
73) Carbazole	11.604	167	95125	10.334	ng		98
74) Di-n-butylphthalate	11.927	149	108468	10.265	ng		99
75) Fluoranthene	12.586	202	114301	10.355	ng		99
77) Benzidine	12.716	184	38741	11.583	ng		95
78) Pyrene	12.821	202	118659	9.527	ng		99
80) Butylbenzylphthalate	13.439	149	47165	9.453	ng		95
81) Benzo(a)anthracene	14.015	228	110076	10.072	ng		97
82) 3,3'-Dichlorobenzidine	13.980	252	35952	10.386	ng		97
83) Chrysene	14.057	228	104527	9.999	ng		97
84) Bis(2-ethylhexyl)phtha...	13.998	149	57616	9.505	ng	#	99
85) Di-n-octyl phthalate	14.621	149	84313	10.009	ng	#	98
87) Indeno(1,2,3-cd)pyrene	17.080	276	82469	8.529	ng		99
88) Benzo(b)fluoranthene	15.086	252	99156	10.709	ng		100
89) Benzo(k)fluoranthene	15.115	252	91763	10.075	ng		98
90) Benzo(a)pyrene	15.468	252	86692	10.130	ng		100
91) Dibenzo(a,h)anthracene	17.086	278	64285	8.233	ng		95
92) Benzo(g,h,i)perylene	17.545	276	65626	8.185	ng		98

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

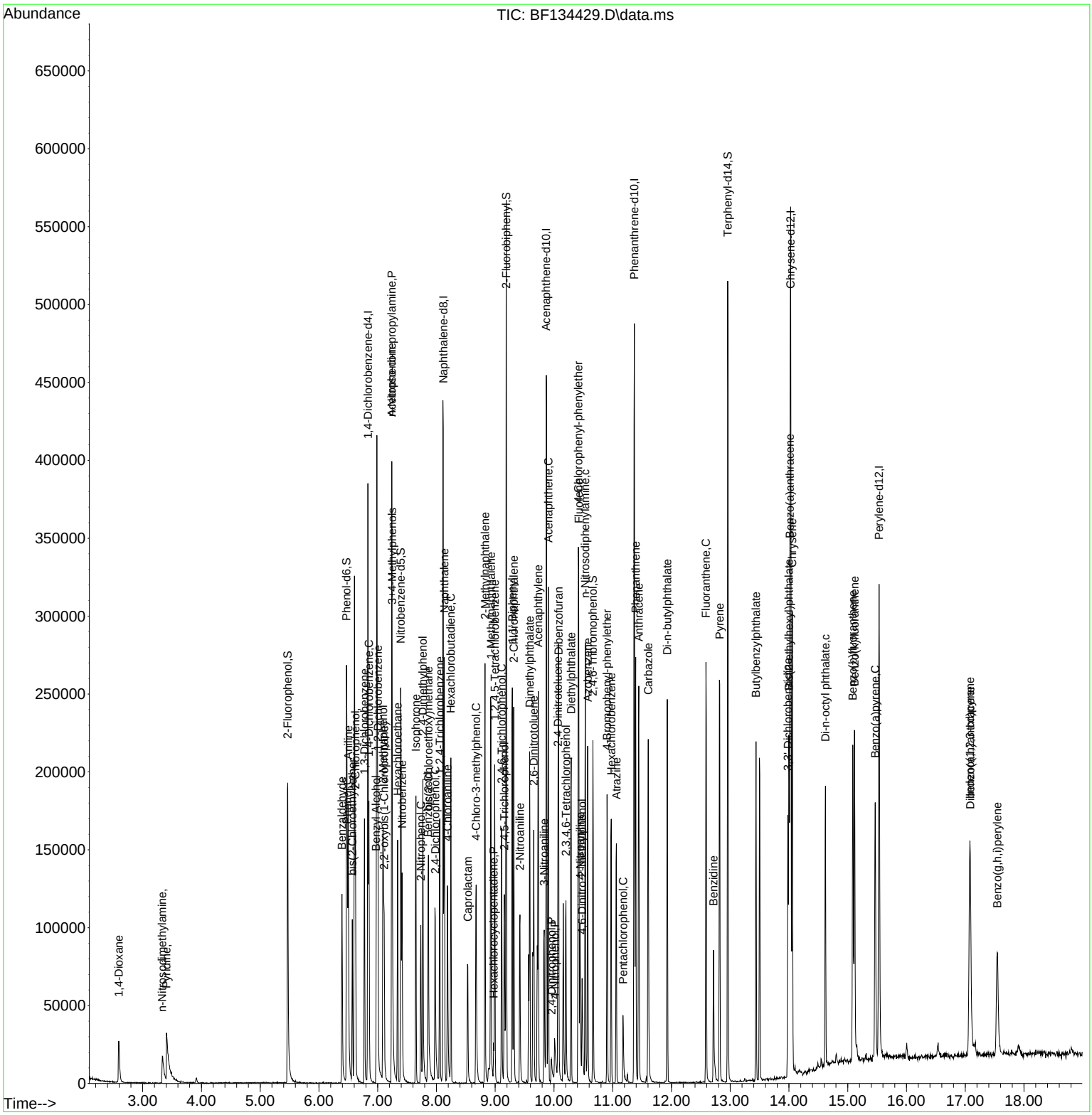
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF072423\
Data File : BF134429.D
Acq On : 24 Jul 2023 14:53
Operator : CG\JU
Sample : SSTDICC010
Misc :
ALS Vial : 5 Sample Multiplier: 1

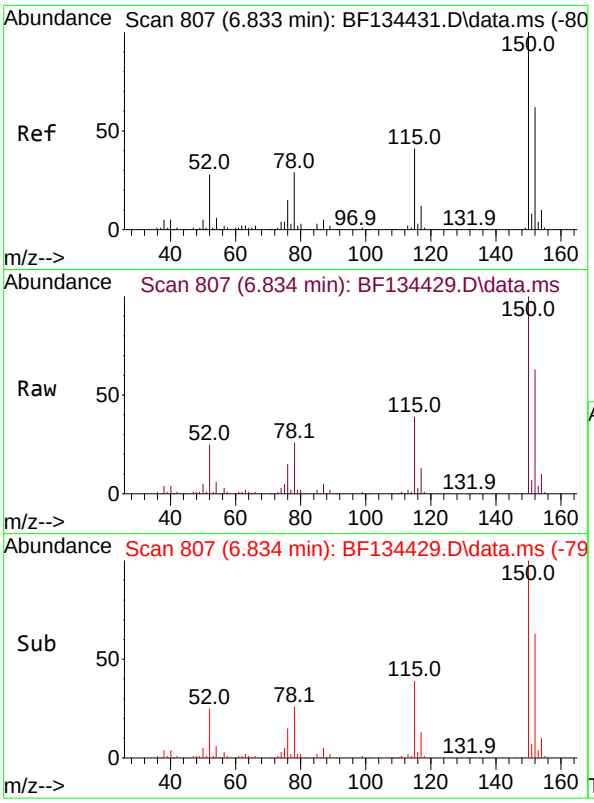
Quant Time: Jul 25 01:32:26 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF072423.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 25 01:30:14 2023
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

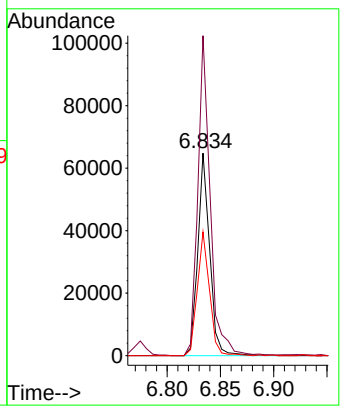




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.834 min Scan# 8
Delta R.T. 0.001 min
Lab File: BF134429.D
Acq: 24 Jul 2023 14:53

Tgt Ion:152 Resp: 5061

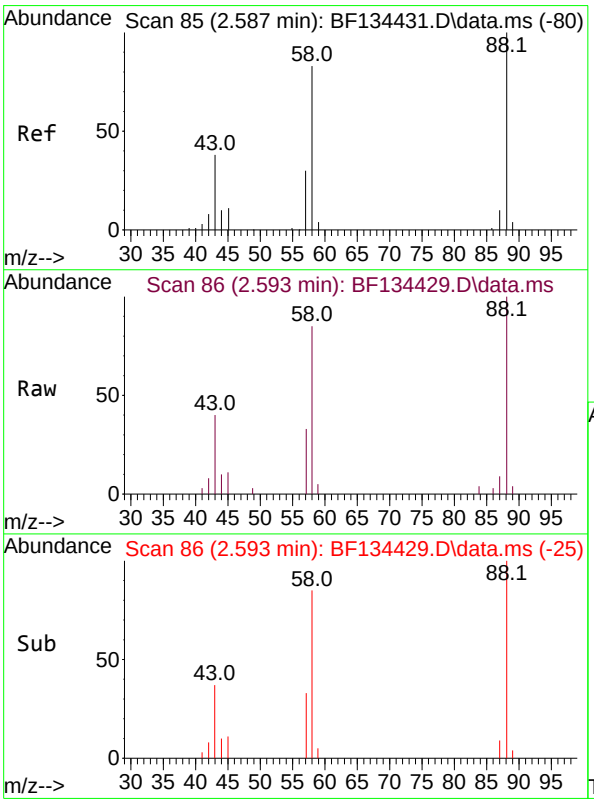
Ion	Ratio	Lower	Upper
152	100		
150	158.0	128.3	192.5
115	61.1	52.4	78.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

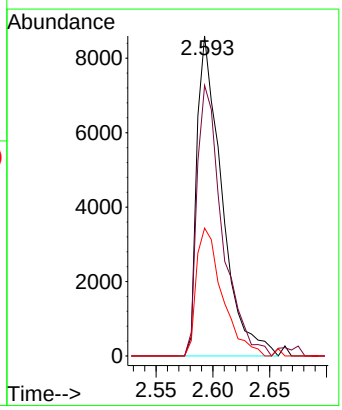
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

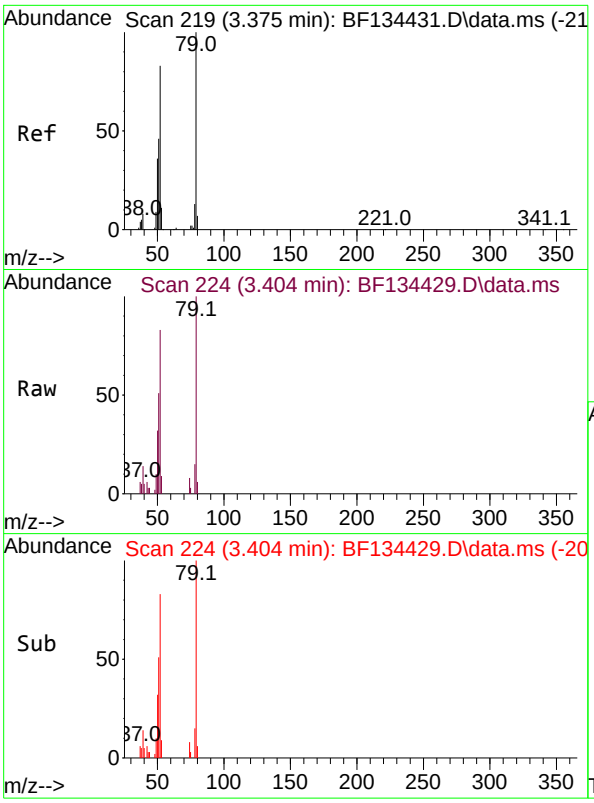


#2
1,4-Dioxane
Concen: 10.068 ng
RT: 2.593 min Scan# 86
Delta R.T. 0.006 min
Lab File: BF134429.D
Acq: 24 Jul 2023 14:53

Tgt Ion: 88 Resp: 13081

Ion	Ratio	Lower	Upper
88	100		
58	85.4	65.1	97.7
43	41.6	30.3	45.5

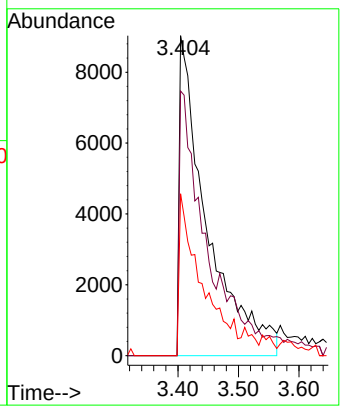




#3
Pyridine
Concen: 9.807 ng m
RT: 3.404 min Scan# 2
Delta R.T. 0.030 min
Lab File: BF134429.D
Acq: 24 Jul 2023 14:53

Tgt Ion: 79 Resp: 2855

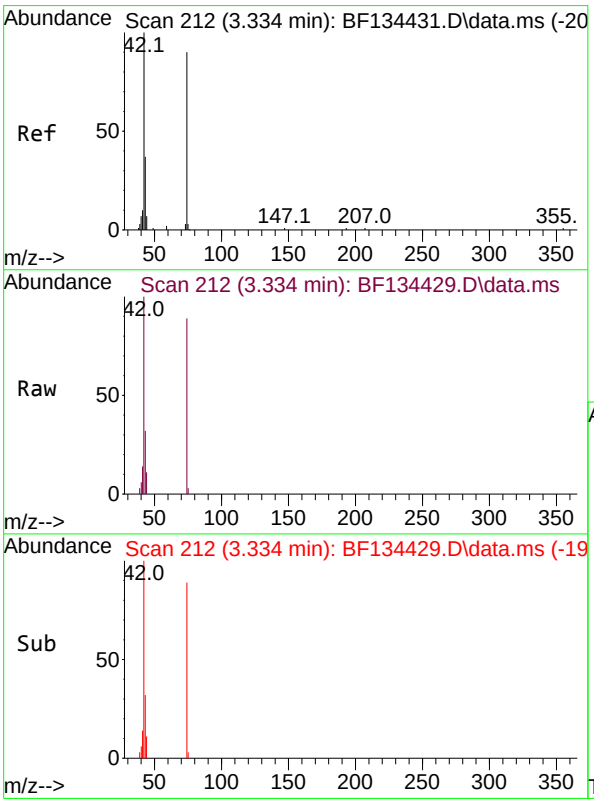
Ion	Ratio	Lower	Upper
79	100		
52	82.7	66.6	100.0
51	50.6	36.5	54.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

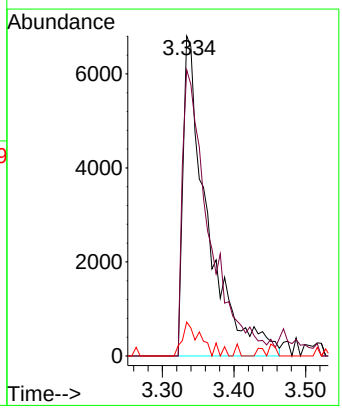
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

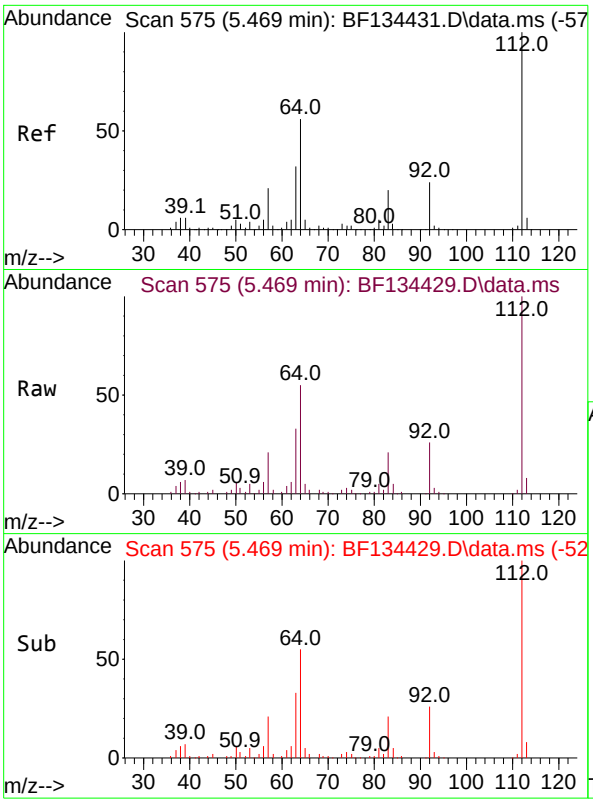


#4
n-Nitrosodimethylamine
Concen: 9.387 ng m
RT: 3.334 min Scan# 212
Delta R.T. 0.000 min
Lab File: BF134429.D
Acq: 24 Jul 2023 14:53

Tgt Ion: 42 Resp: 16180

Ion	Ratio	Lower	Upper
42	100		
74	89.4	72.2	108.4
44	10.6	5.4	8.0#

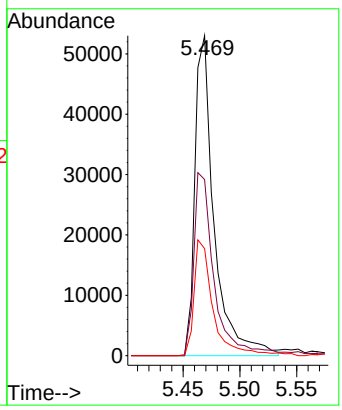




#5
2-Fluorophenol
Concen: 20.345 ng
RT: 5.469 min Scan# 5
Delta R.T. 0.000 min
Lab File: BF134429.D
Acq: 24 Jul 2023 14:53

Tgt Ion:112 Resp: 6232

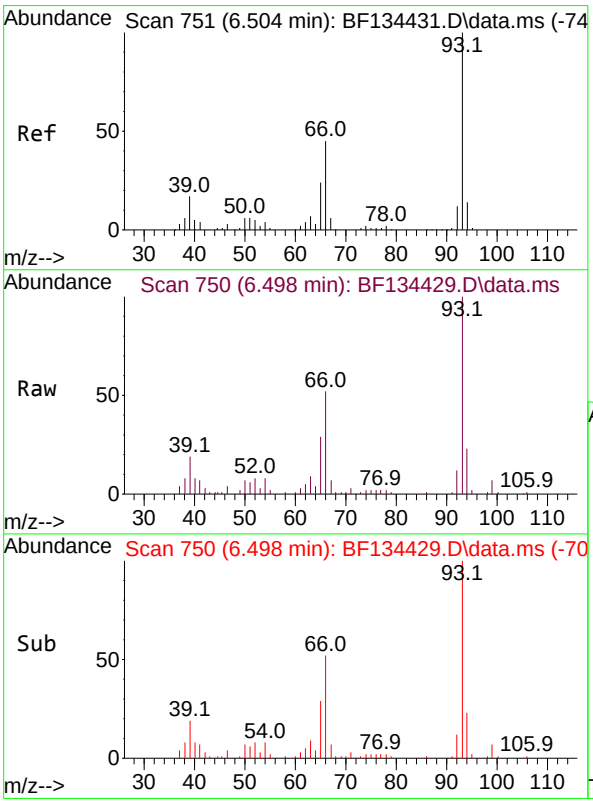
Ion	Ratio	Lower	Upper
112	100		
64	55.1	44.9	67.3
63	33.5	25.4	38.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

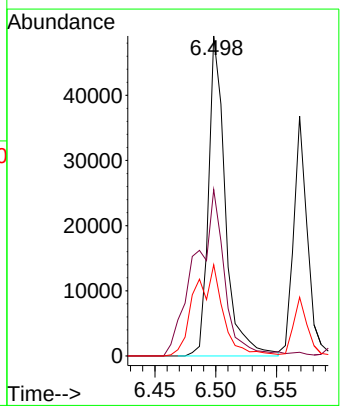
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

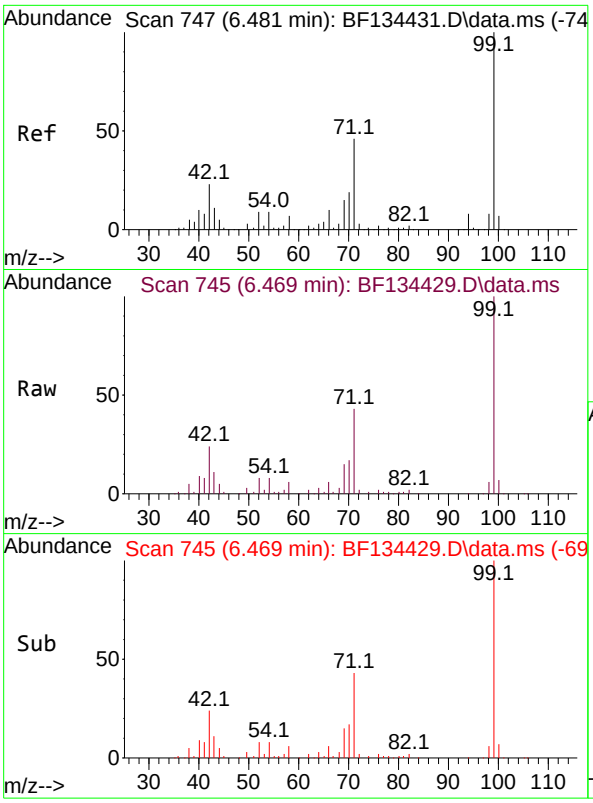


#6
Aniline
Concen: 10.659 ng
RT: 6.498 min Scan# 750
Delta R.T. -0.006 min
Lab File: BF134429.D
Acq: 24 Jul 2023 14:53

Tgt Ion: 93 Resp: 47148

Ion	Ratio	Lower	Upper
93	100		
66	52.0	36.8	55.2
65	28.5	19.4	29.0

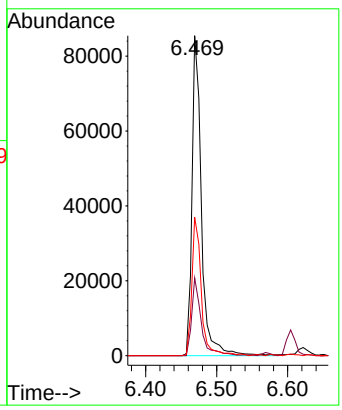




#7
Phenol-d6
Concen: 21.166 ng
RT: 6.469 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF134429.D
Acq: 24 Jul 2023 14:53

Tgt Ion: 99 Resp: 7943

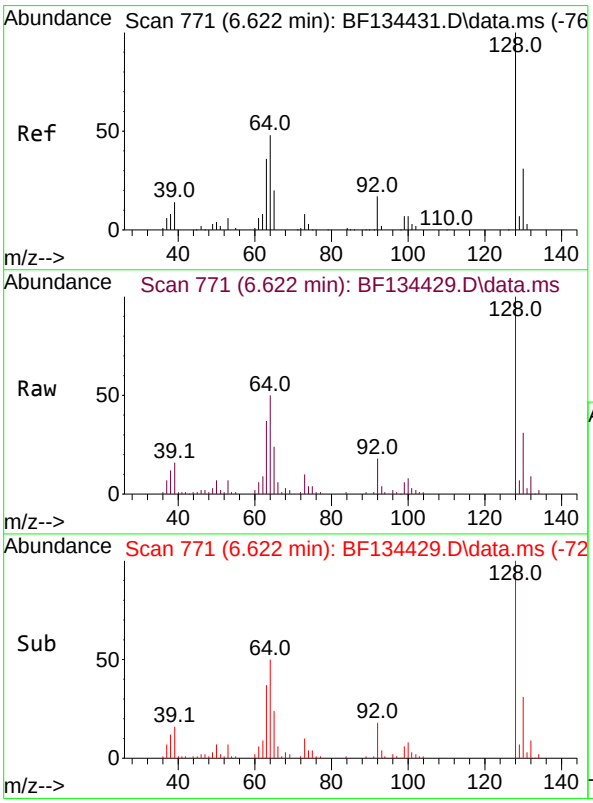
Ion	Ratio	Lower	Upper
99	100		
42	24.3	18.7	28.1
71	43.3	36.4	54.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

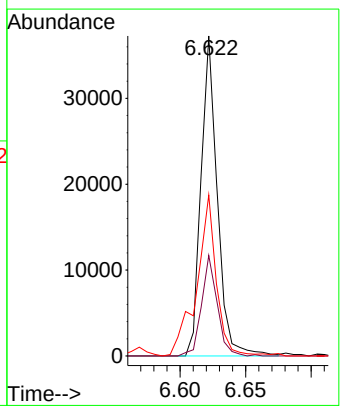
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

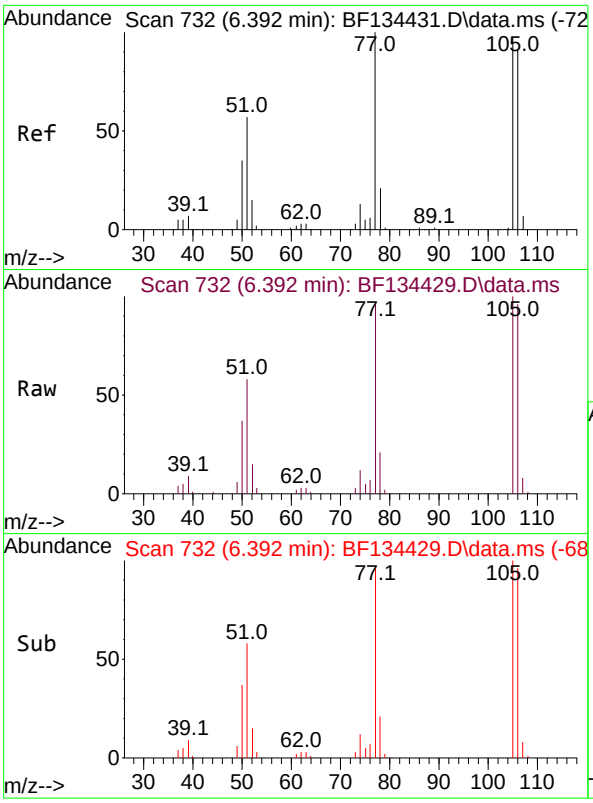


#8
2-Chlorophenol
Concen: 10.446 ng
RT: 6.622 min Scan# 771
Delta R.T. 0.000 min
Lab File: BF134429.D
Acq: 24 Jul 2023 14:53

Tgt Ion:128 Resp: 32417

Ion	Ratio	Lower	Upper
128	100		
130	31.4	11.1	51.1
64	50.3	31.9	71.9

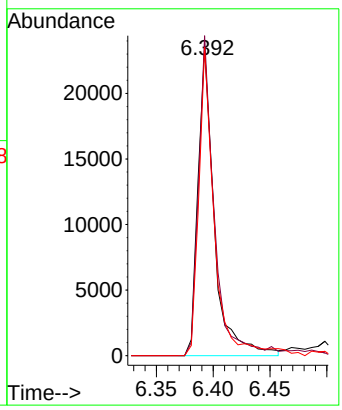




#9
Benzaldehyde
Concen: 11.722 ng
RT: 6.392 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF134429.D
Acq: 24 Jul 2023 14:53

Tgt Ion: 77 Resp: 2356

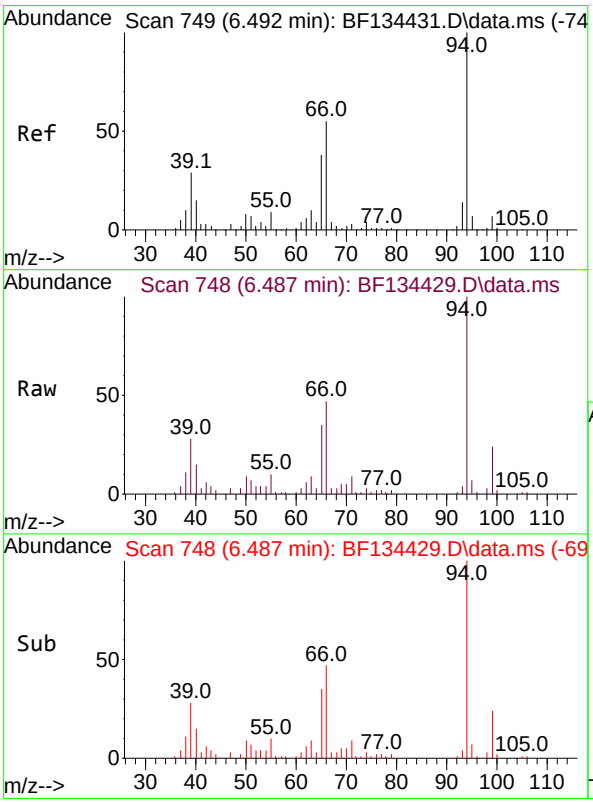
Ion	Ratio	Lower	Upper
77	100		
105	103.8	77.1	117.1
106	100.1	71.4	111.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

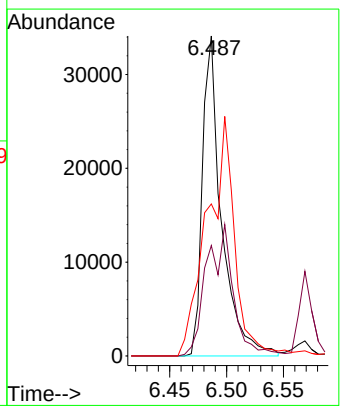
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

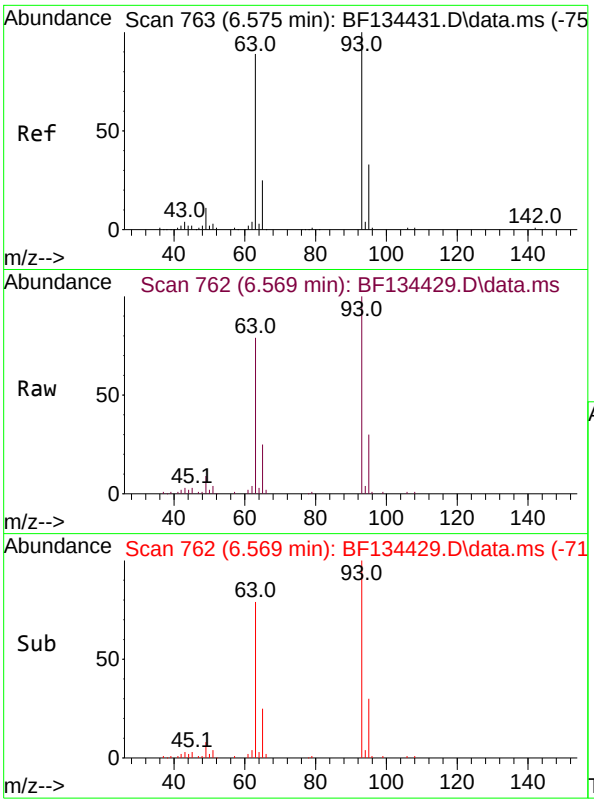


#10
Phenol
Concen: 10.166 ng
RT: 6.487 min Scan# 748
Delta R.T. -0.006 min
Lab File: BF134429.D
Acq: 24 Jul 2023 14:53

Tgt Ion: 94 Resp: 39697

Ion	Ratio	Lower	Upper
94	100		
65	34.5	17.8	57.8
66	47.5	35.2	75.2

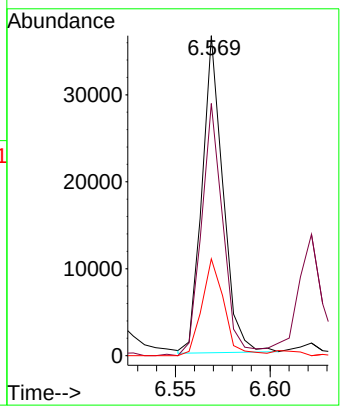




#11
bis(2-Chloroethyl)ether
Concen: 10.302 ng
RT: 6.569 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF134429.D
Acq: 24 Jul 2023 14:53

Tgt Ion: 93 Resp: 2808

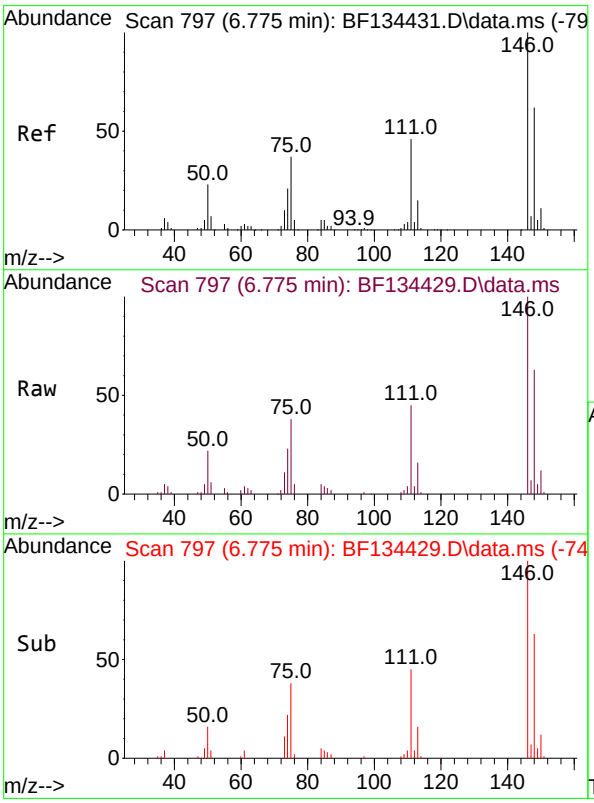
Ion	Ratio	Lower	Upper
93	100		
63	78.8	68.4	108.4
95	30.2	12.4	52.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

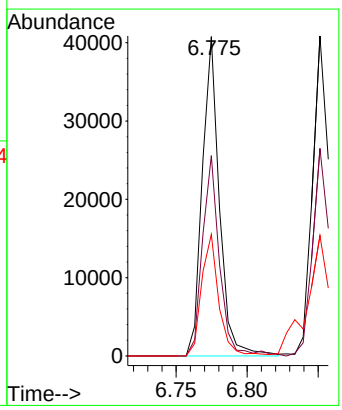
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

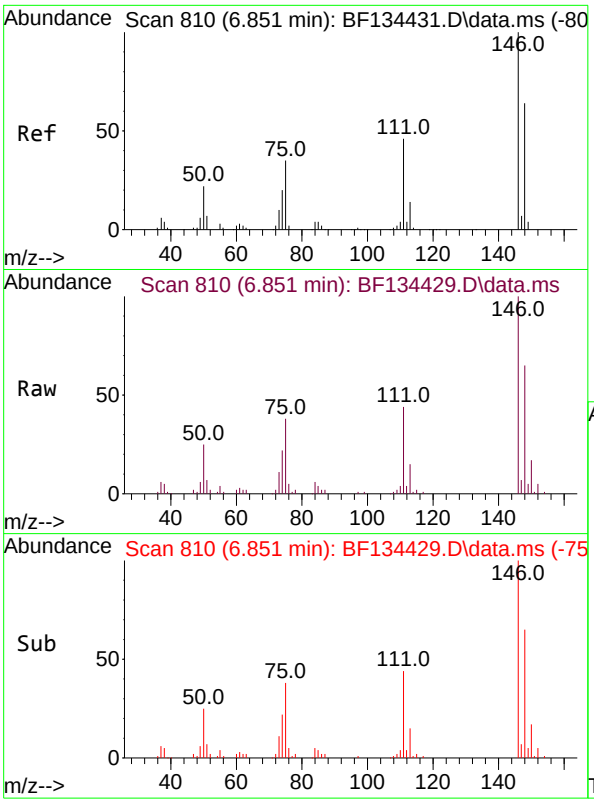


#12
1,3-Dichlorobenzene
Concen: 10.259 ng
RT: 6.775 min Scan# 797
Delta R.T. 0.000 min
Lab File: BF134429.D
Acq: 24 Jul 2023 14:53

Tgt Ion:146 Resp: 34234

Ion	Ratio	Lower	Upper
146	100		
148	62.7	49.7	74.5
75	38.0	29.5	44.3

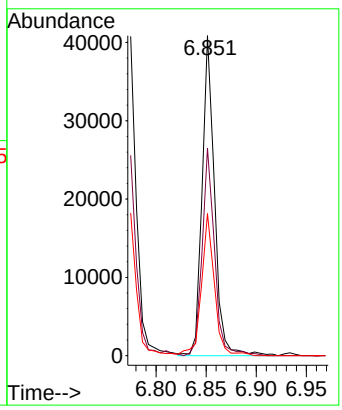




#13
1,4-Dichlorobenzene
Concen: 10.313 ng
RT: 6.851 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF134429.D
Acq: 24 Jul 2023 14:53

Tgt Ion:146 Resp: 3541

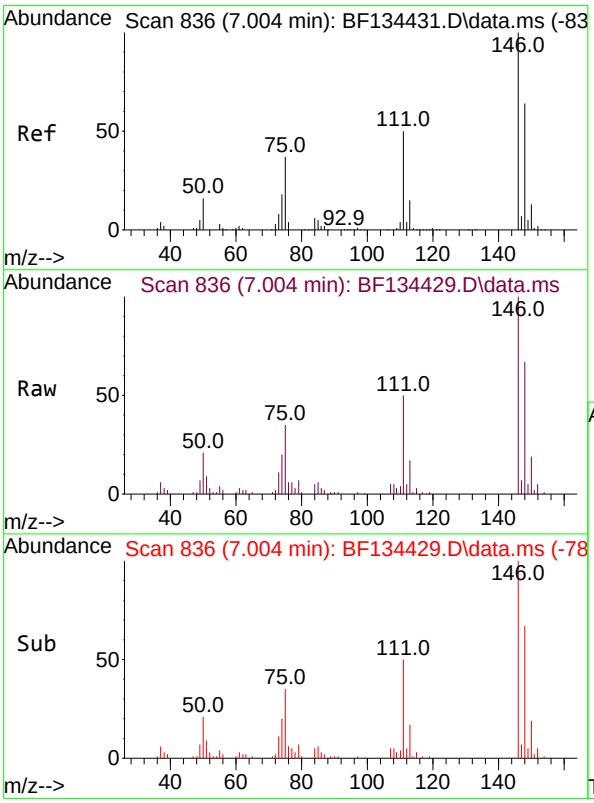
Ion	Ratio	Lower	Upper
146	100		
148	64.9	51.3	76.9
111	44.4	36.6	55.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

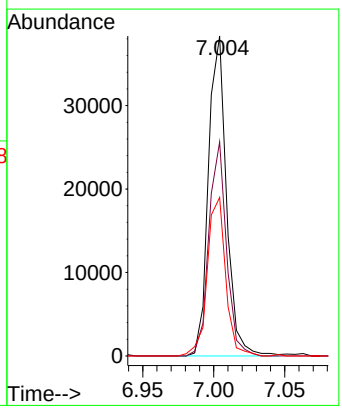
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

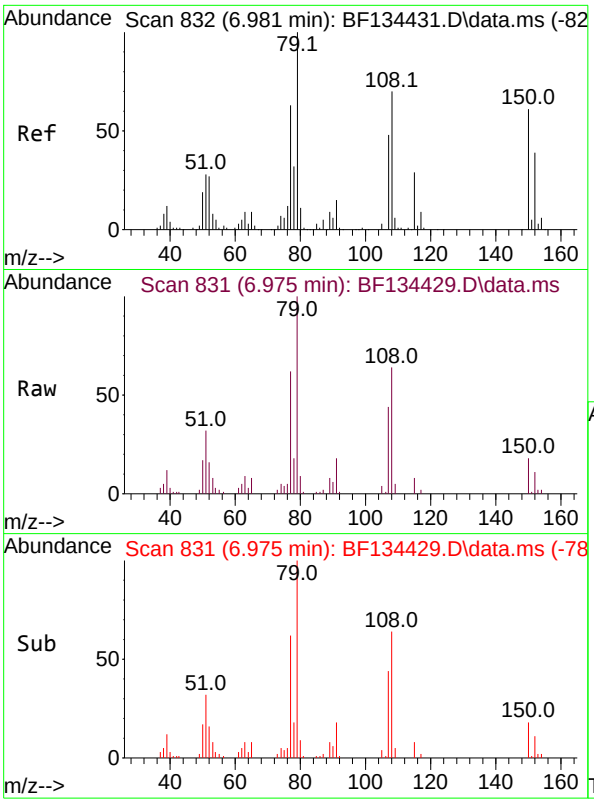


#14
1,2-Dichlorobenzene
Concen: 10.503 ng
RT: 7.004 min Scan# 836
Delta R.T. 0.000 min
Lab File: BF134429.D
Acq: 24 Jul 2023 14:53

Tgt Ion:146 Resp: 33882

Ion	Ratio	Lower	Upper
146	100		
148	66.9	51.2	76.8
111	49.6	39.9	59.9





#15
Benzyl Alcohol
Concen: 9.892 ng m
RT: 6.975 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF134429.D
Acq: 24 Jul 2023 14:53

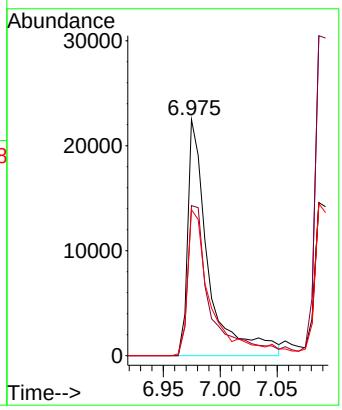
Tgt Ion: 79 Resp: 2838

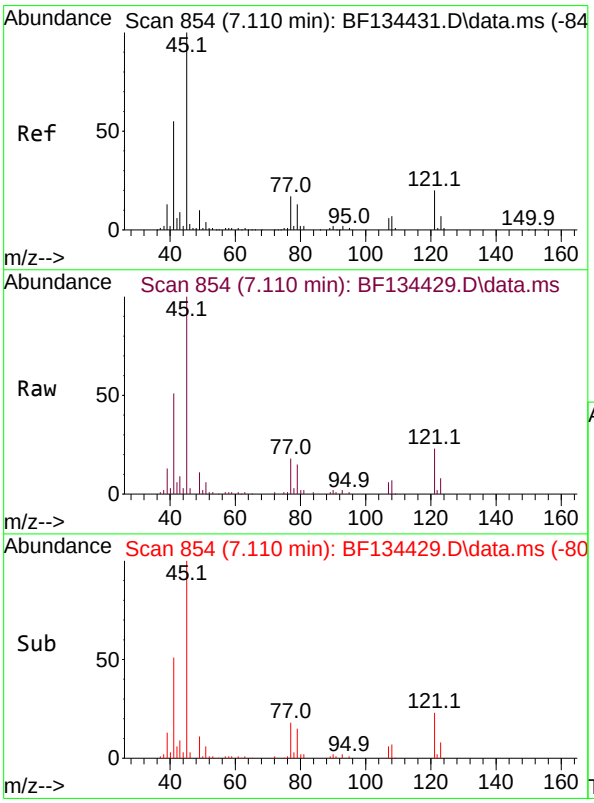
Ion	Ratio	Lower	Upper
79	100		
108	63.6	56.3	84.5
77	61.9	50.6	76.0

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

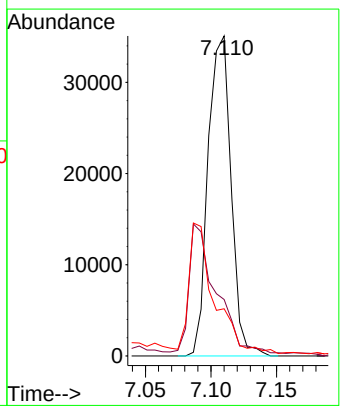


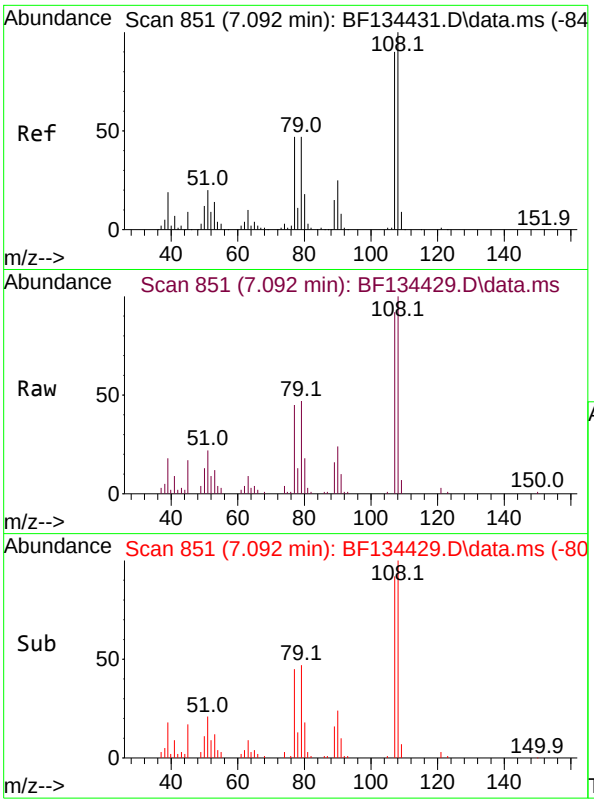


#16
2,2'-oxybis(1-Chloropropane)
Concen: 10.668 ng
RT: 7.110 min Scan# 854
Delta R.T. 0.000 min
Lab File: BF134429.D
Acq: 24 Jul 2023 14:53

Tgt Ion: 45 Resp: 42826

Ion	Ratio	Lower	Upper
45	100		
77	17.6	0.0	37.8
79	14.8	0.0	34.5

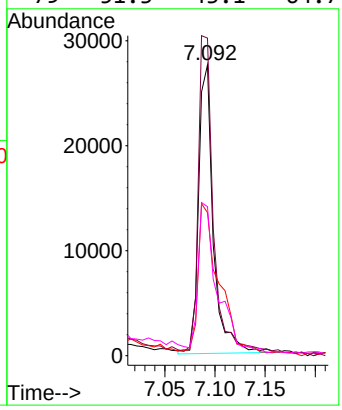




#17
2-Methylphenol
Concen: 10.168 ng
RT: 7.092 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF134429.D
Acq: 24 Jul 2023 14:53

Tgt Ion:107 Resp: 2814

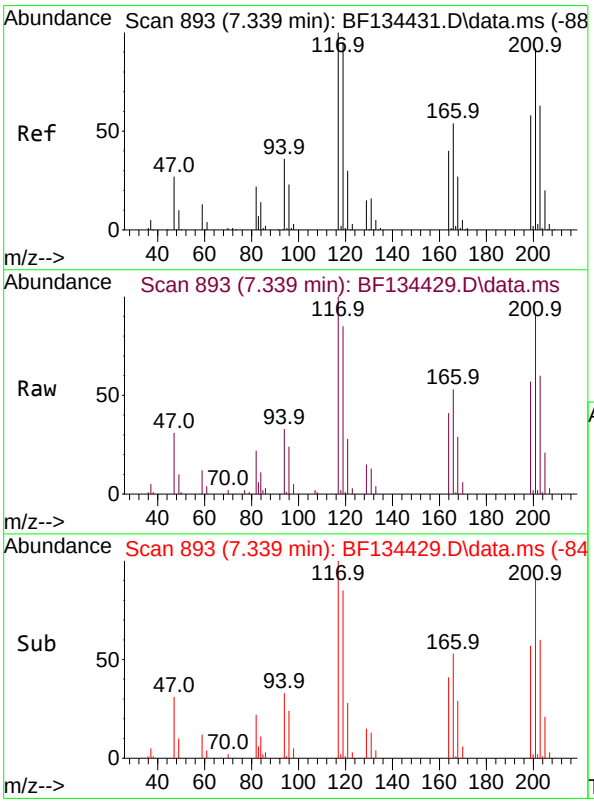
Ion	Ratio	Lower	Upper
107	100		
108	109.3	89.4	134.2
77	49.2	42.4	63.6
79	51.3	43.1	64.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

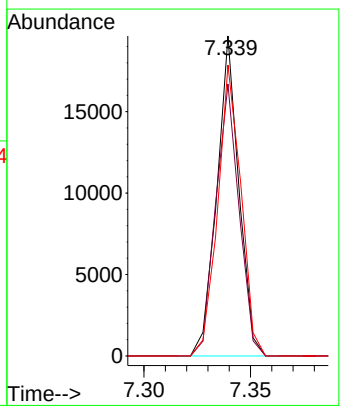
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

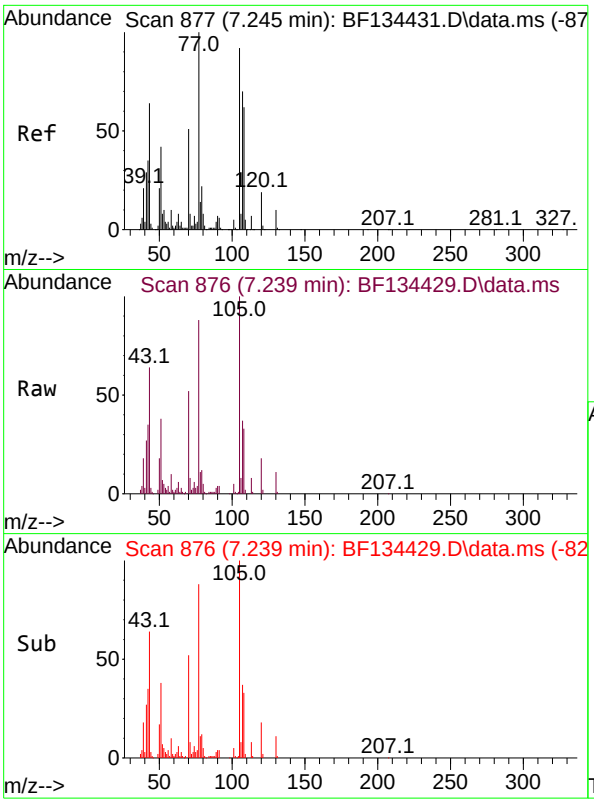


#18
Hexachloroethane
Concen: 10.717 ng
RT: 7.339 min Scan# 893
Delta R.T. 0.000 min
Lab File: BF134429.D
Acq: 24 Jul 2023 14:53

Tgt Ion:117 Resp: 14139

Ion	Ratio	Lower	Upper
117	100		
119	85.0	75.8	113.8
201	90.9	73.6	110.4

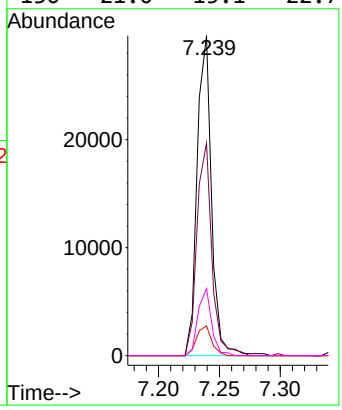




#19
n-Nitroso-di-n-propylamine
Concen: 10.458 ng
RT: 7.239 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF134429.D
Acq: 24 Jul 2023 14:53

Tgt Ion: 70 Resp: 2443

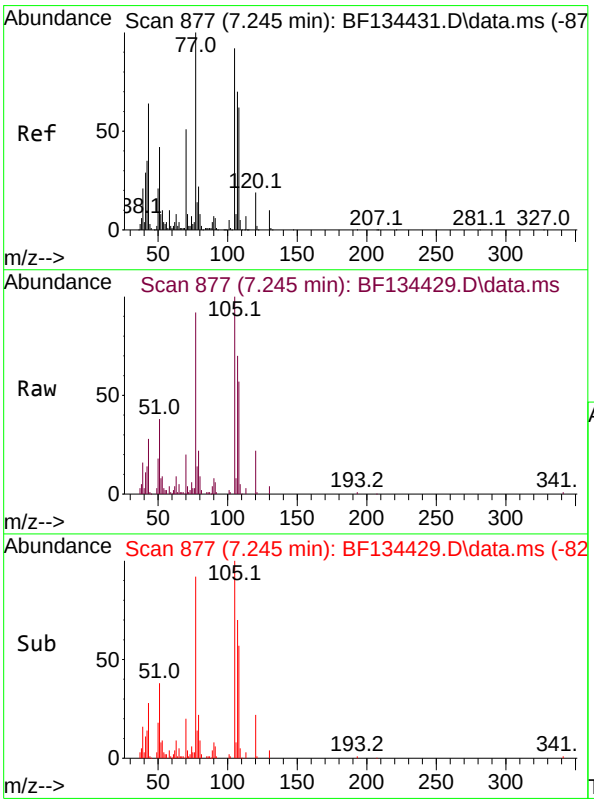
Ion	Ratio	Lower	Upper
70	100		
42	66.5	54.7	82.1
101	9.3	8.2	12.2
130	21.0	15.1	22.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

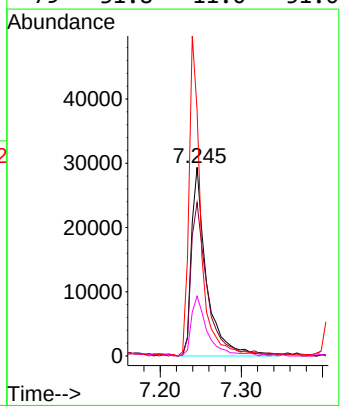
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

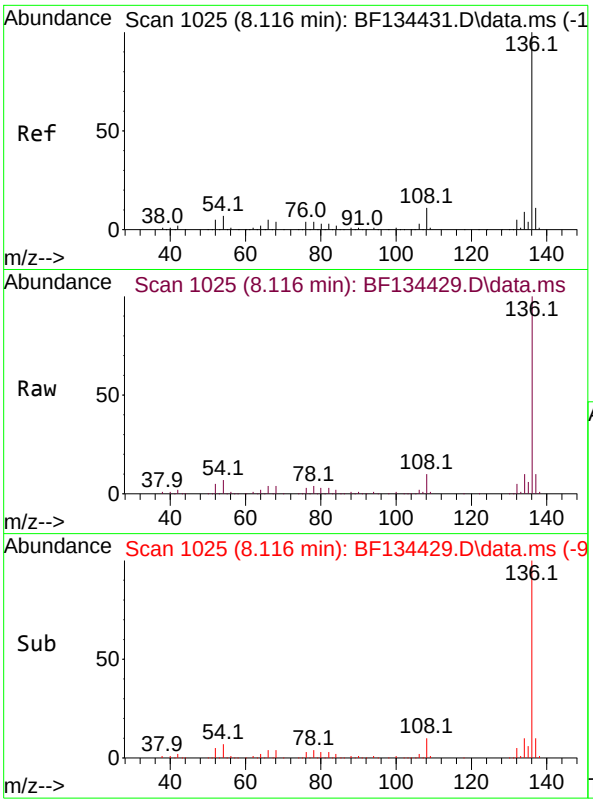


#20
3+4-Methylphenols
Concen: 10.844 ng
RT: 7.245 min Scan# 877
Delta R.T. 0.000 min
Lab File: BF134429.D
Acq: 24 Jul 2023 14:53

Tgt Ion:107 Resp: 38425

Ion	Ratio	Lower	Upper
107	100		
108	81.3	68.1	108.1
77	130.4	122.1	162.1
79	31.8	11.0	51.0

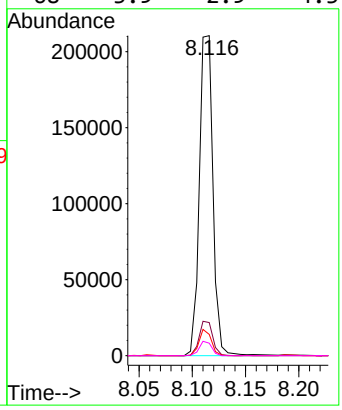




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.116 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134429.D
Acq: 24 Jul 2023 14:53

Tgt Ion:136 Resp: 18806

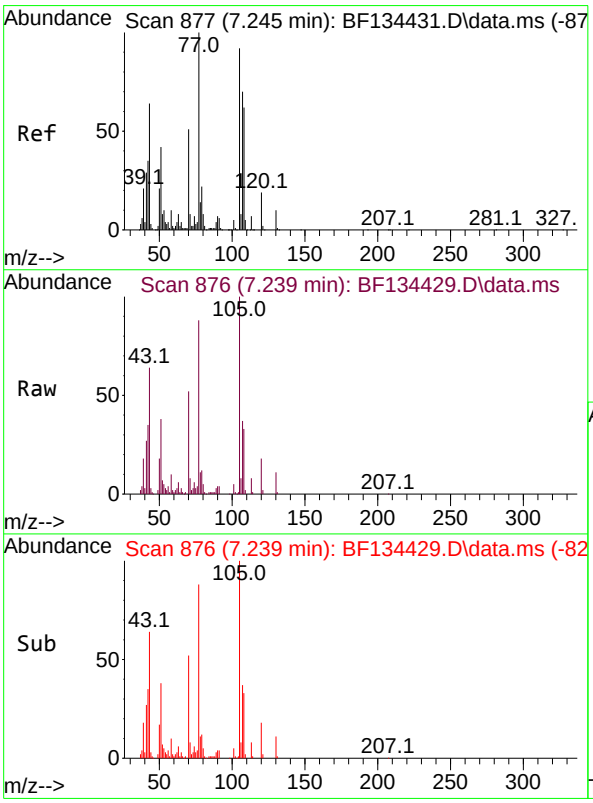
Ion	Ratio	Lower	Upper
136	100		
137	10.4	8.4	12.6
54	6.7	5.2	7.8
68	3.9	2.9	4.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

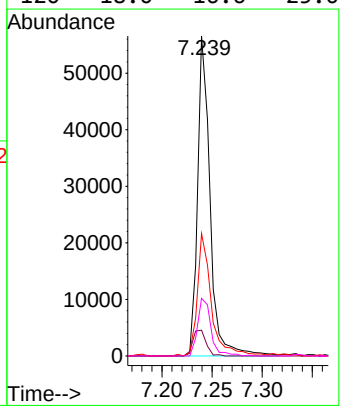
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

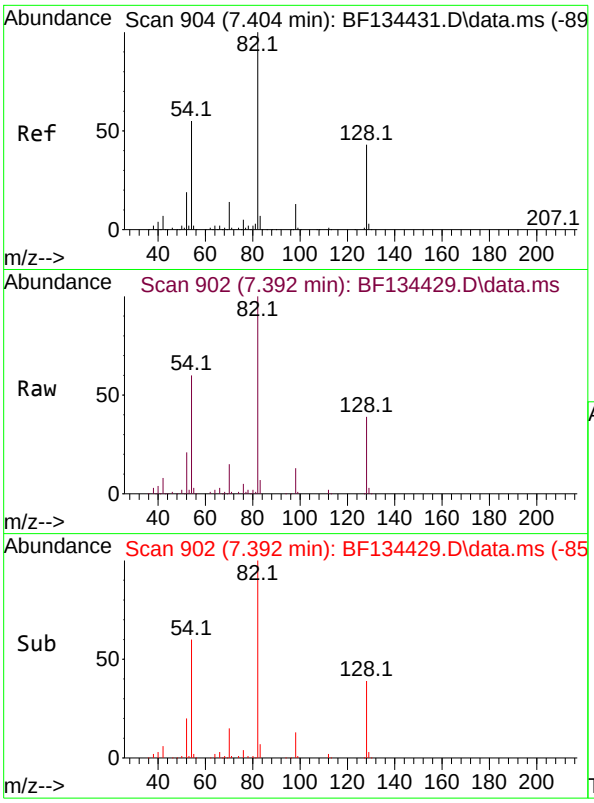


#22
Acetophenone
Concen: 10.504 ng
RT: 7.239 min Scan# 876
Delta R.T. -0.006 min
Lab File: BF134429.D
Acq: 24 Jul 2023 14:53

Tgt Ion:105 Resp: 49129

Ion	Ratio	Lower	Upper
105	100		
71	8.1	7.4	11.0
51	38.2	36.4	54.6
120	18.0	16.6	25.0

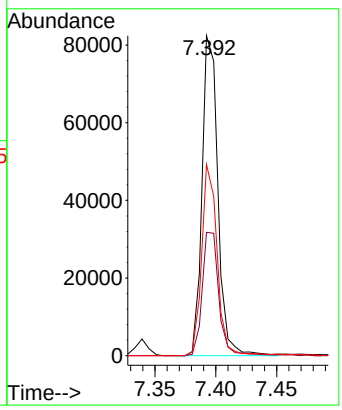




#23
Nitrobenzene-d5
Concen: 20.030 ng
RT: 7.392 min Scan# 9(
Delta R.T. -0.012 min
Lab File: BF134429.D
Acq: 24 Jul 2023 14:53

Tgt Ion: 82 Resp: 7445(

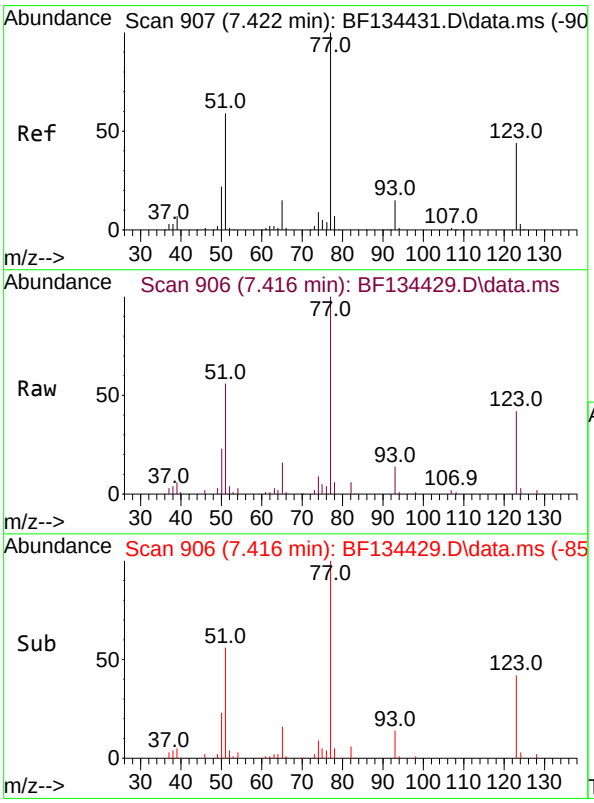
Ion	Ratio	Lower	Upper
82	100		
128	38.6	34.3	51.5
54	59.7	43.8	65.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

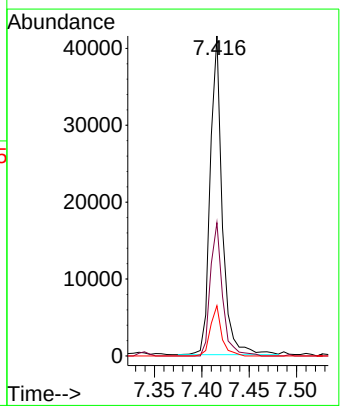
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

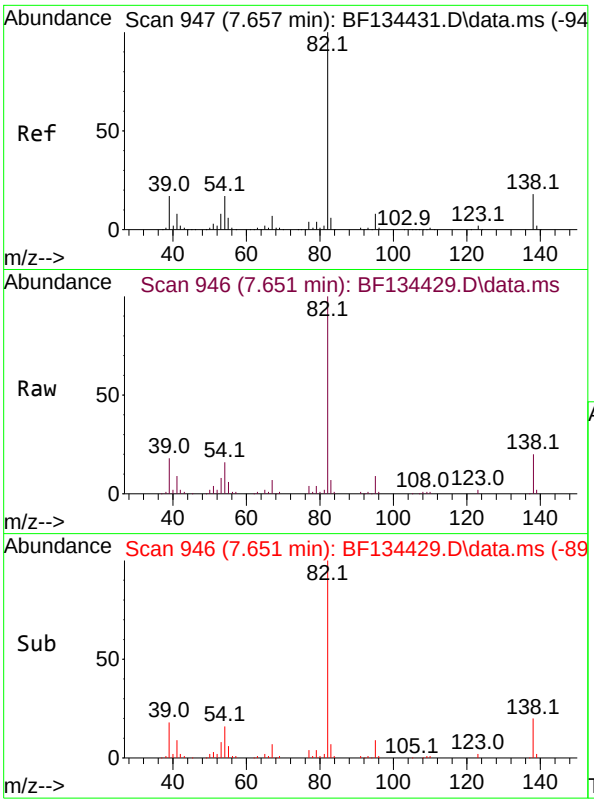


#24
Nitrobenzene
Concen: 9.928 ng
RT: 7.416 min Scan# 906
Delta R.T. -0.006 min
Lab File: BF134429.D
Acq: 24 Jul 2023 14:53

Tgt Ion: 77 Resp: 36702

Ion	Ratio	Lower	Upper
77	100		
123	41.7	35.5	53.3
65	15.7	11.9	17.9

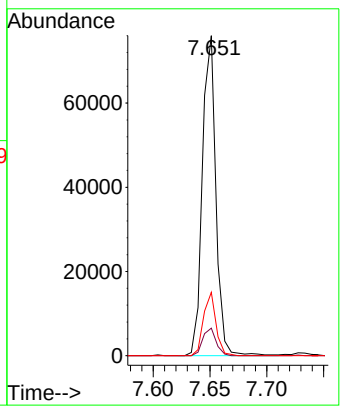




#25
Isophorone
Concen: 10.173 ng
RT: 7.651 min Scan# 94
Delta R.T. -0.006 min
Lab File: BF134429.D
Acq: 24 Jul 2023 14:53

Tgt Ion: 82 Resp: 6302

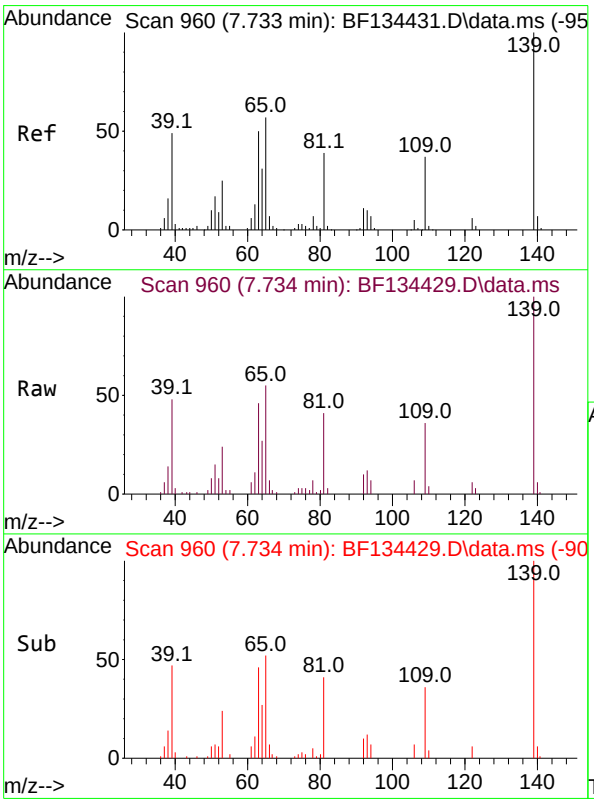
Ion	Ratio	Lower	Upper
82	100		
95	8.6	6.0	9.0
138	19.8	14.6	22.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

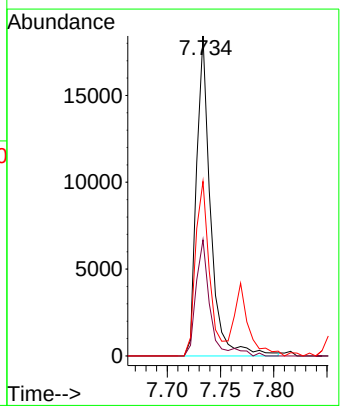
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

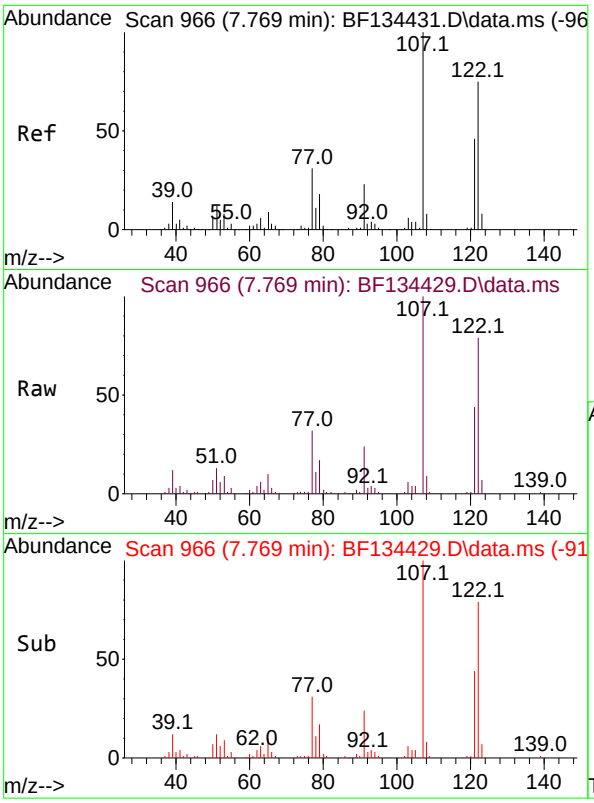


#26
2-Nitrophenol
Concen: 9.977 ng
RT: 7.734 min Scan# 960
Delta R.T. 0.000 min
Lab File: BF134429.D
Acq: 24 Jul 2023 14:53

Tgt Ion:139 Resp: 16963

Ion	Ratio	Lower	Upper
139	100		
109	36.3	29.8	44.6
65	54.6	45.4	68.2

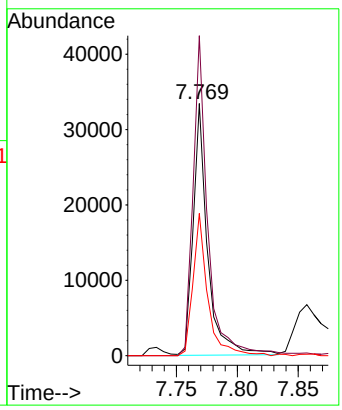




#27
2,4-Dimethylphenol
Concen: 10.278 ng
RT: 7.769 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF134429.D
Acq: 24 Jul 2023 14:53

Tgt Ion:122 Resp: 2757

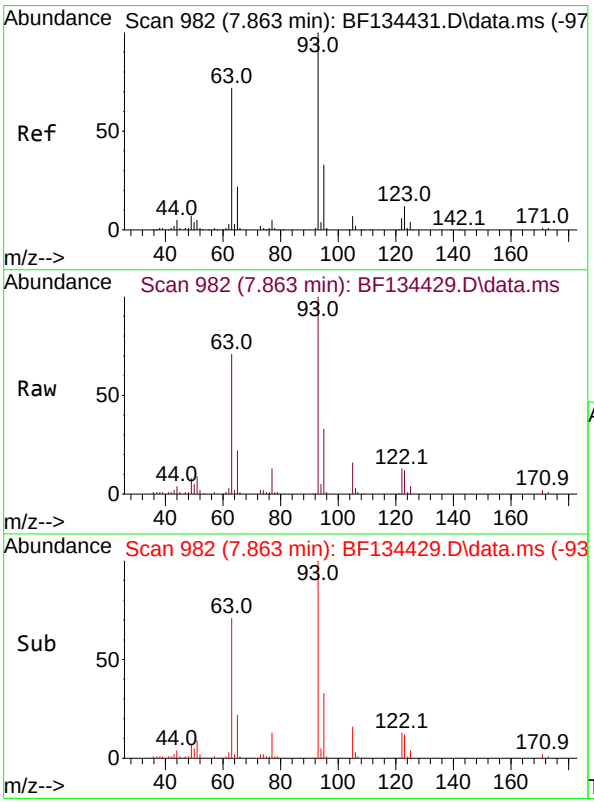
Ion	Ratio	Lower	Upper
122	100		
107	126.9	106.7	160.1
121	56.4	49.0	73.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

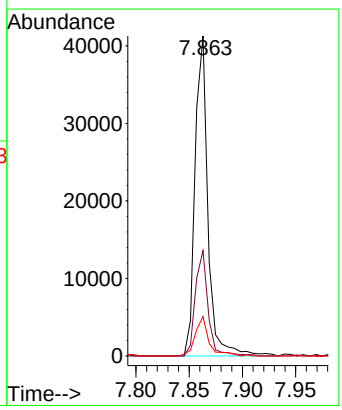
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

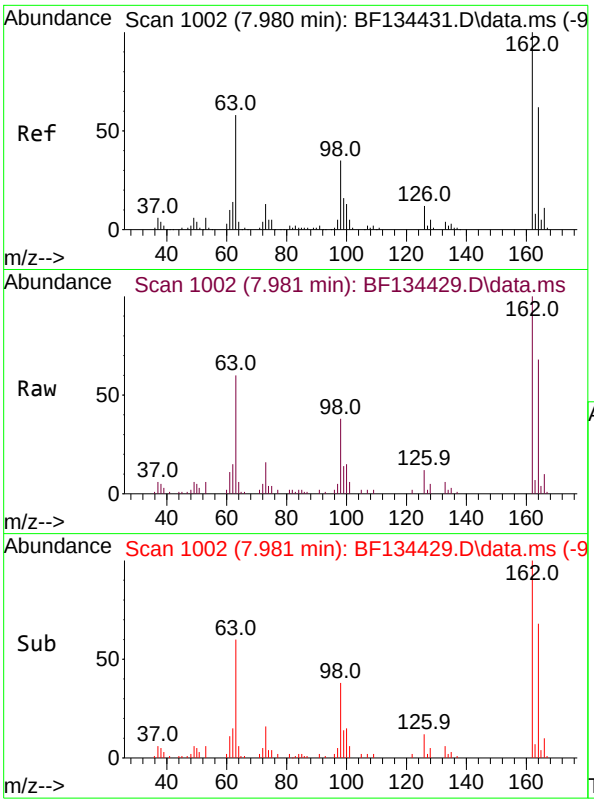


#28
bis(2-Chloroethoxy)methane
Concen: 10.102 ng
RT: 7.863 min Scan# 982
Delta R.T. 0.000 min
Lab File: BF134429.D
Acq: 24 Jul 2023 14:53

Tgt Ion: 93 Resp: 34833

Ion	Ratio	Lower	Upper
93	100		
95	33.0	26.5	39.7
123	12.3	9.6	14.4

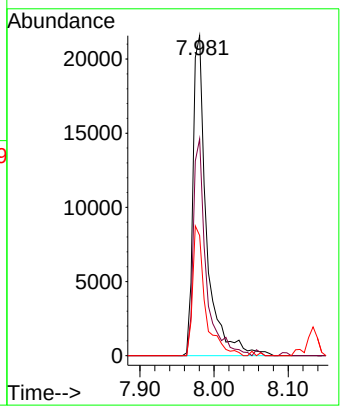




#29
2,4-Dichlorophenol
Concen: 10.275 ng
RT: 7.981 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134429.D
Acq: 24 Jul 2023 14:53

Tgt Ion:162 Resp: 2756

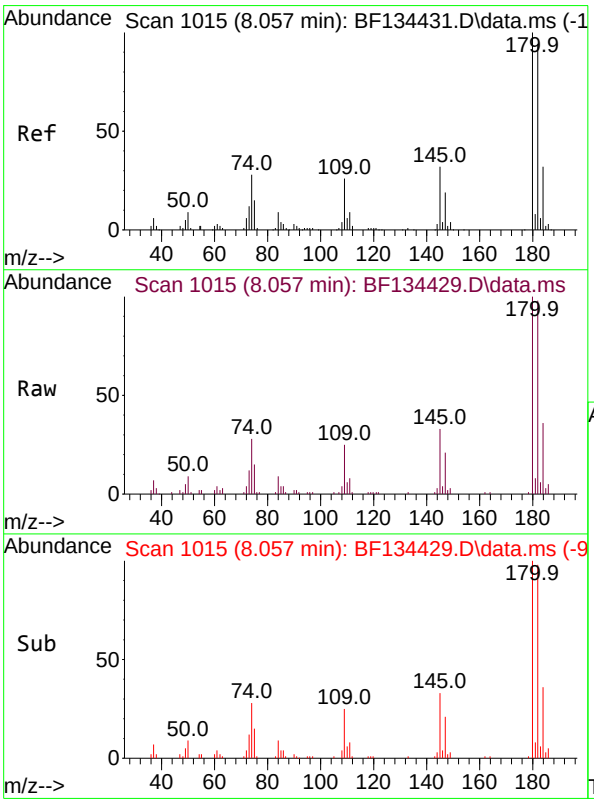
Ion	Ratio	Lower	Upper
162	100		
164	67.7	42.2	82.2
98	37.6	15.5	55.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

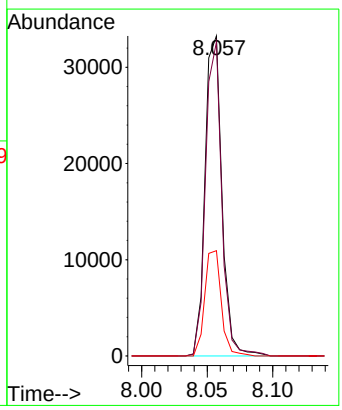
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

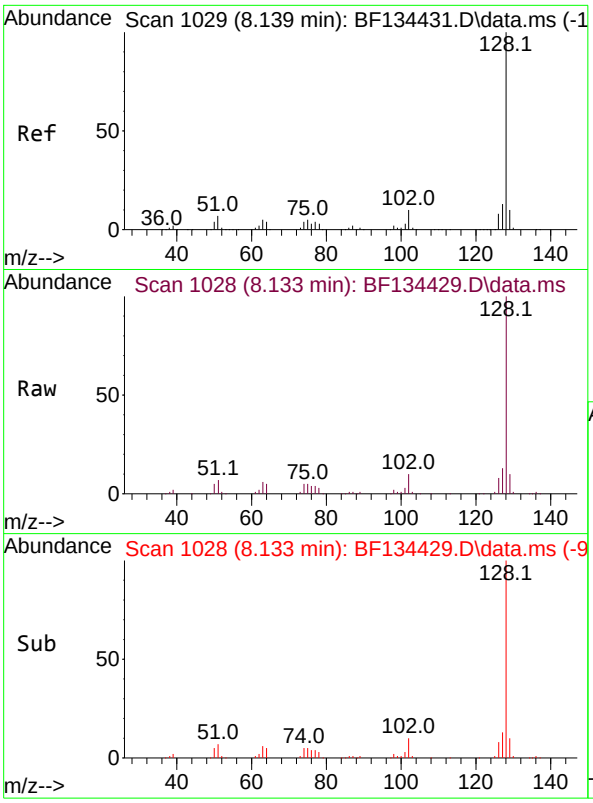


#30
1,2,4-Trichlorobenzene
Concen: 10.313 ng
RT: 8.057 min Scan# 1015
Delta R.T. 0.000 min
Lab File: BF134429.D
Acq: 24 Jul 2023 14:53

Tgt Ion:180 Resp: 29839

Ion	Ratio	Lower	Upper
180	100		
182	98.1	75.0	112.6
145	32.9	25.5	38.3

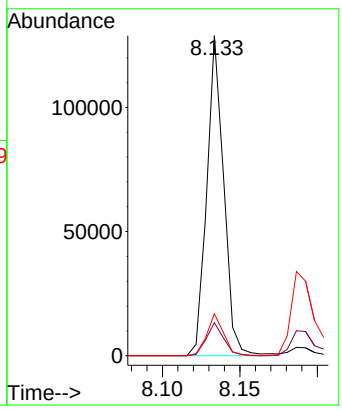




#31
Naphthalene
Concen: 10.470 ng
RT: 8.133 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF134429.D
Acq: 24 Jul 2023 14:53

Tgt Ion:128 Resp: 9799

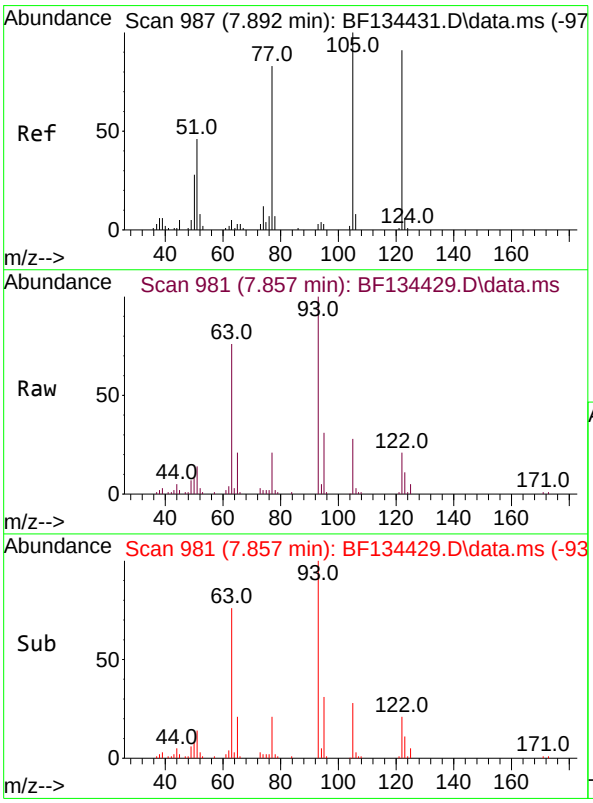
Ion	Ratio	Lower	Upper
128	100		
129	10.3	8.4	12.6
127	13.1	10.7	16.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

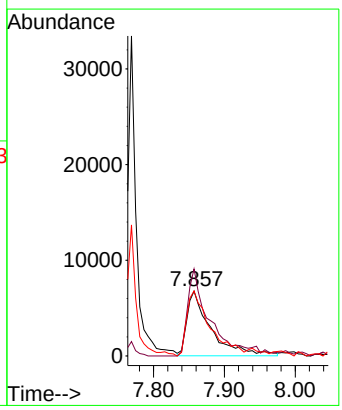
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

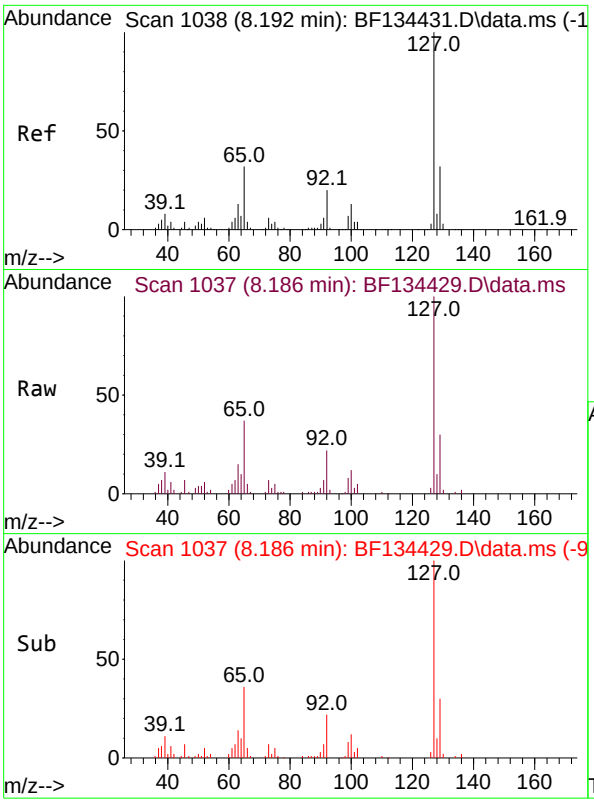


#32
Benzoic acid
Concen: 8.903 ng m
RT: 7.857 min Scan# 981
Delta R.T. -0.035 min
Lab File: BF134429.D
Acq: 24 Jul 2023 14:53

Tgt Ion:122 Resp: 15774

Ion	Ratio	Lower	Upper
122	100		
105	134.3	87.5	127.5#
77	100.3	71.4	111.4

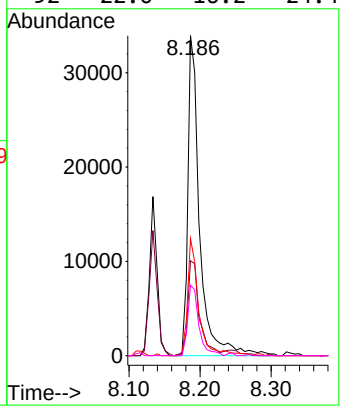




#33
4-Chloroaniline
Concen: 10.146 ng
RT: 8.186 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF134429.D
Acq: 24 Jul 2023 14:53

Tgt Ion:127 Resp: 3925

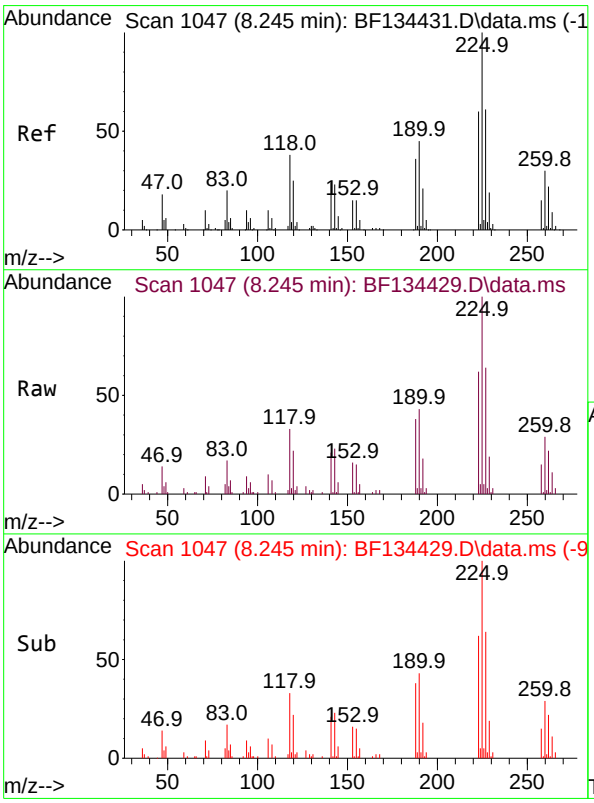
Ion	Ratio	Lower	Upper
127	100		
129	29.7	25.6	38.4
65	36.6	25.4	38.0
92	22.0	16.2	24.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

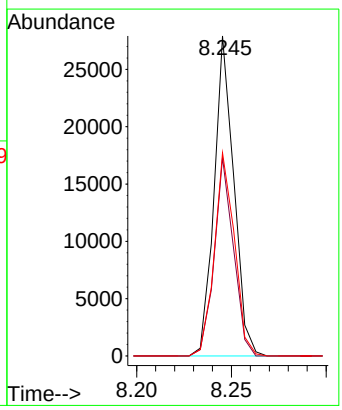
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

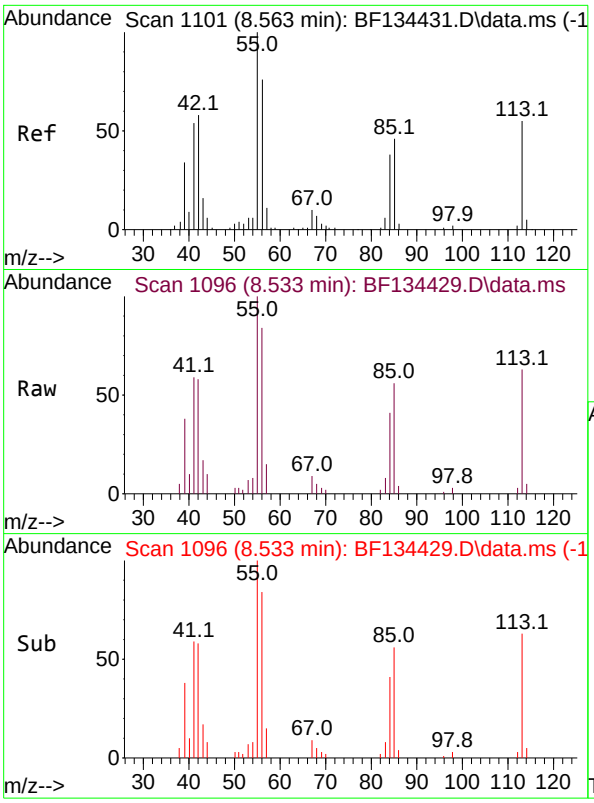


#34
Hexachlorobutadiene
Concen: 10.425 ng
RT: 8.245 min Scan# 1047
Delta R.T. 0.000 min
Lab File: BF134429.D
Acq: 24 Jul 2023 14:53

Tgt Ion:225 Resp: 20206

Ion	Ratio	Lower	Upper
225	100		
223	62.0	48.2	72.4
227	63.5	48.5	72.7

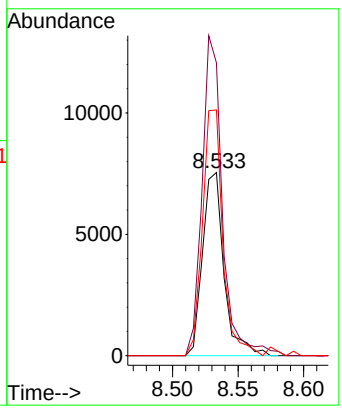




#35
Caprolactam
Concen: 10.512 ng
RT: 8.533 min Scan# 1
Delta R.T. -0.029 min
Lab File: BF134429.D
Acq: 24 Jul 2023 14:53

Tgt Ion:113 Resp: 860

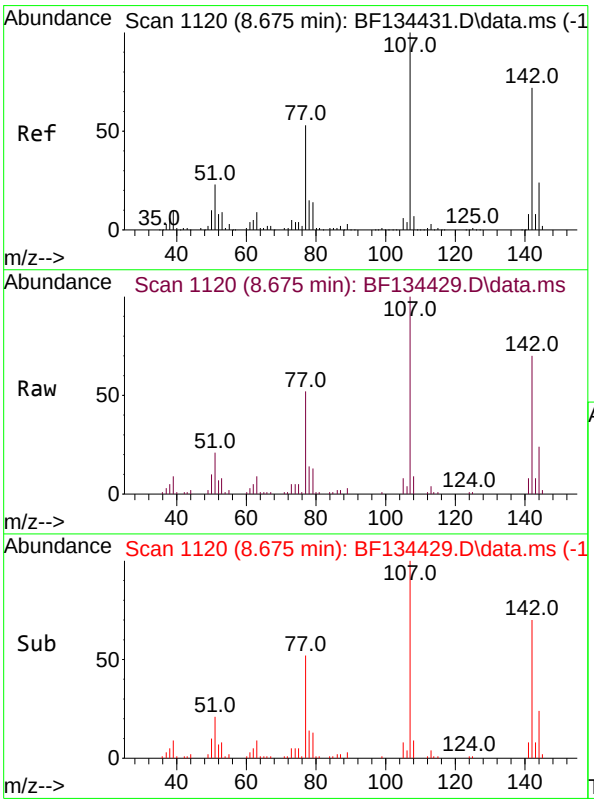
Ion	Ratio	Lower	Upper
113	100		
55	159.8	161.5	201.5
56	134.2	117.8	157.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

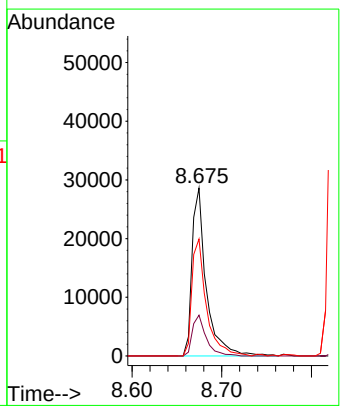
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

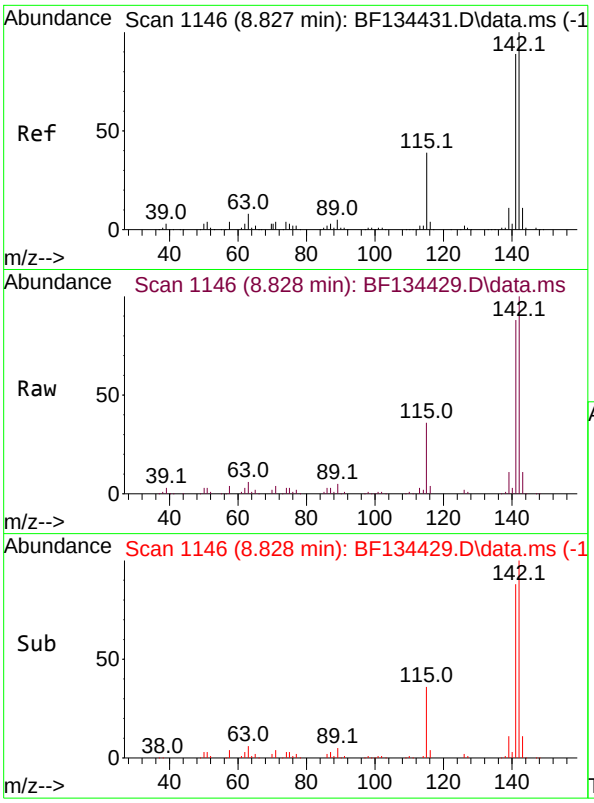


#36
4-Chloro-3-methylphenol
Concen: 10.202 ng
RT: 8.675 min Scan# 1120
Delta R.T. 0.000 min
Lab File: BF134429.D
Acq: 24 Jul 2023 14:53

Tgt Ion:107 Resp: 31575

Ion	Ratio	Lower	Upper
107	100		
144	24.3	19.6	29.4
142	69.7	57.7	86.5

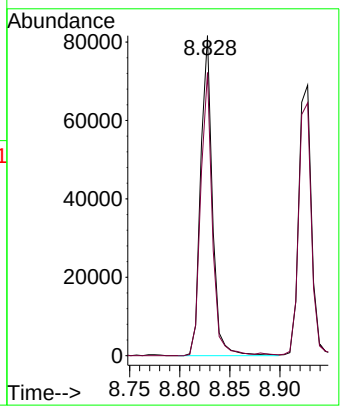




#37
2-Methylnaphthalene
Concen: 10.274 ng
RT: 8.828 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF134429.D
Acq: 24 Jul 2023 14:53

Tgt Ion:142 Resp: 6681

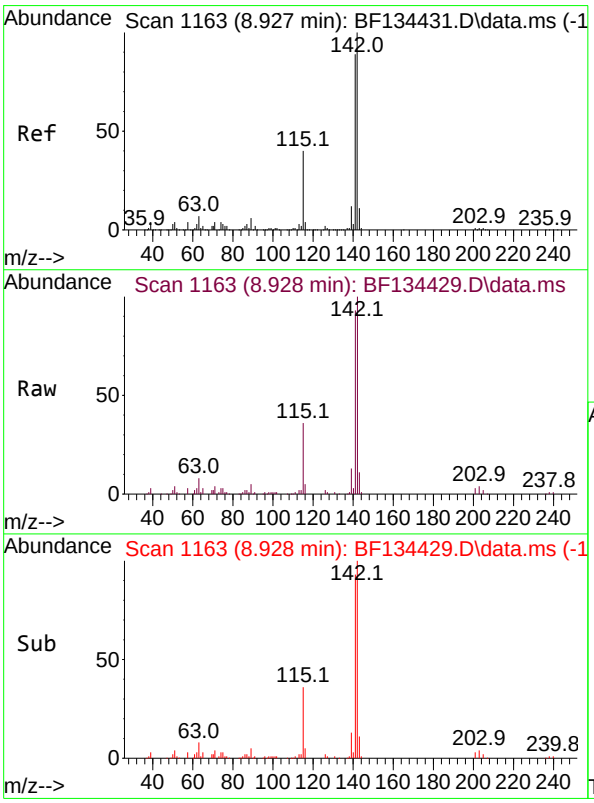
Ion	Ratio	Lower	Upper
142	100		
141	88.5	70.8	106.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

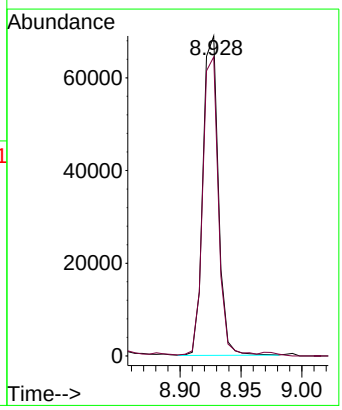
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

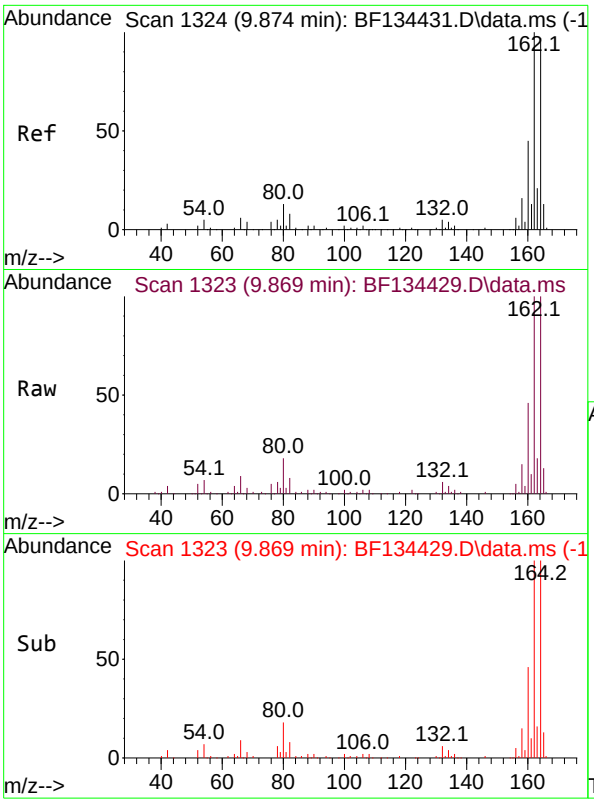


#38
1-Methylnaphthalene
Concen: 10.045 ng
RT: 8.928 min Scan# 1163
Delta R.T. 0.000 min
Lab File: BF134429.D
Acq: 24 Jul 2023 14:53

Tgt Ion:142 Resp: 60604

Ion	Ratio	Lower	Upper
142	100		
141	93.4	71.4	107.2

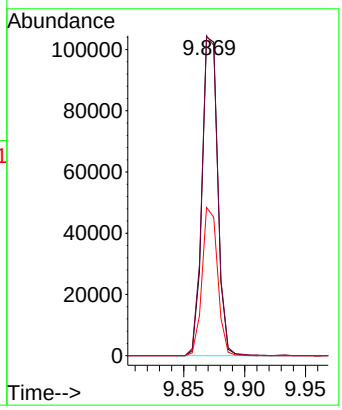




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.869 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF134429.D
Acq: 24 Jul 2023 14:53

Tgt Ion:164 Resp: 9291

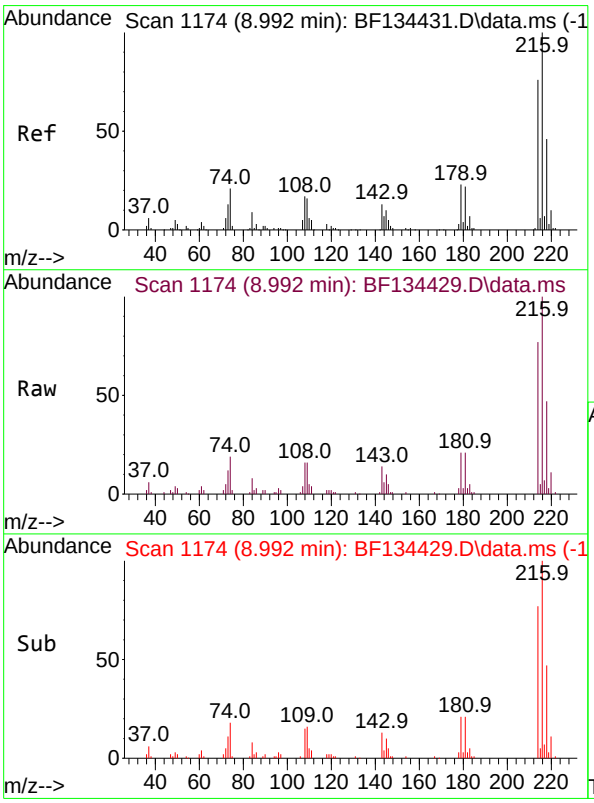
Ion	Ratio	Lower	Upper
164	100		
162	100.4	82.6	123.8
160	46.5	37.2	55.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

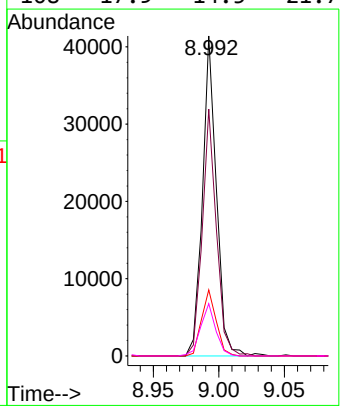
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

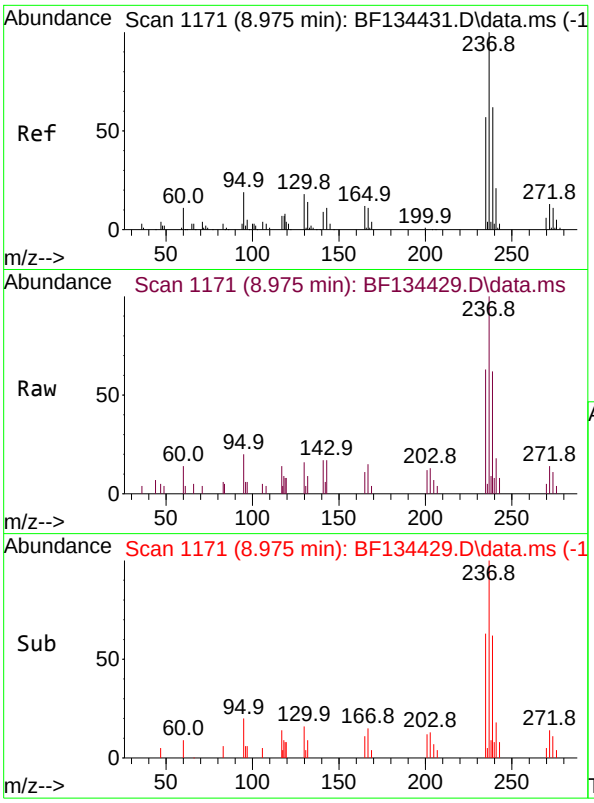


#40
1,2,4,5-Tetrachlorobenzene
Concen: 10.429 ng
RT: 8.992 min Scan# 1174
Delta R.T. 0.000 min
Lab File: BF134429.D
Acq: 24 Jul 2023 14:53

Tgt Ion:216 Resp: 30709

Ion	Ratio	Lower	Upper
216	100		
214	78.0	62.3	93.5
179	21.7	17.4	26.0
108	17.9	14.5	21.7

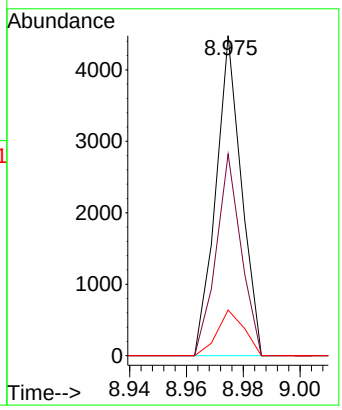




#41
Hexachlorocyclopentadiene
Concen: 10.522 ng
RT: 8.975 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF134429.D
Acq: 24 Jul 2023 14:53

Tgt Ion:237 Resp: 279

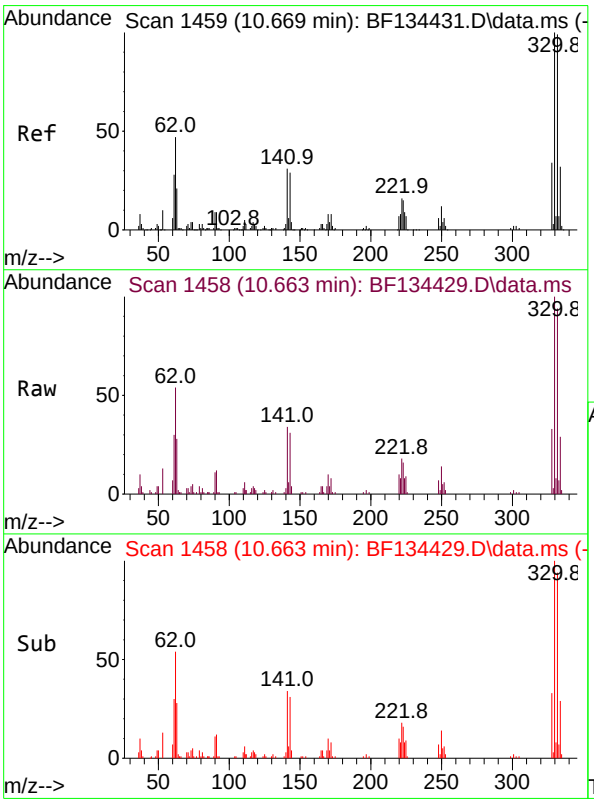
Ion	Ratio	Lower	Upper
237	100		
235	63.0	37.0	77.0
272	14.3	0.0	32.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

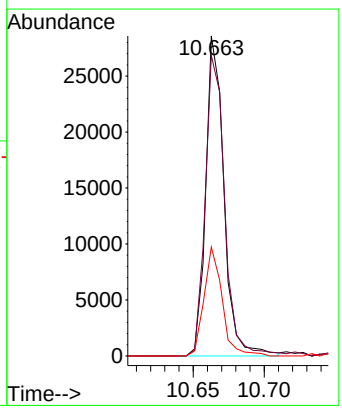
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

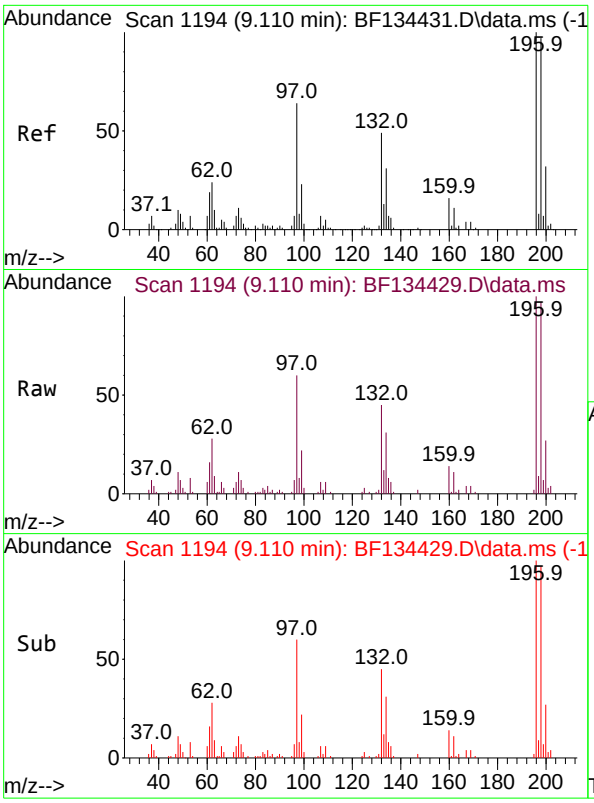


#42
2,4,6-Tribromophenol
Concen: 19.292 ng
RT: 10.663 min Scan# 1458
Delta R.T. -0.006 min
Lab File: BF134429.D
Acq: 24 Jul 2023 14:53

Tgt Ion:330 Resp: 25469

Ion	Ratio	Lower	Upper
330	100		
332	101.1	78.8	118.2
141	33.9	25.4	38.2

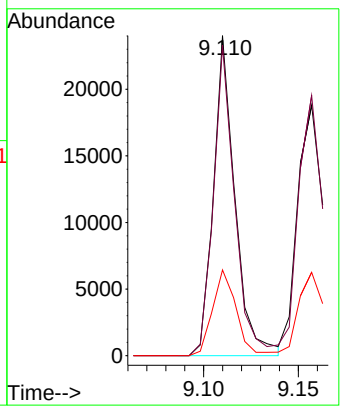




#43
2,4,6-Trichlorophenol
Concen: 10.066 ng
RT: 9.110 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134429.D
Acq: 24 Jul 2023 14:53

Tgt Ion:196 Resp: 1901

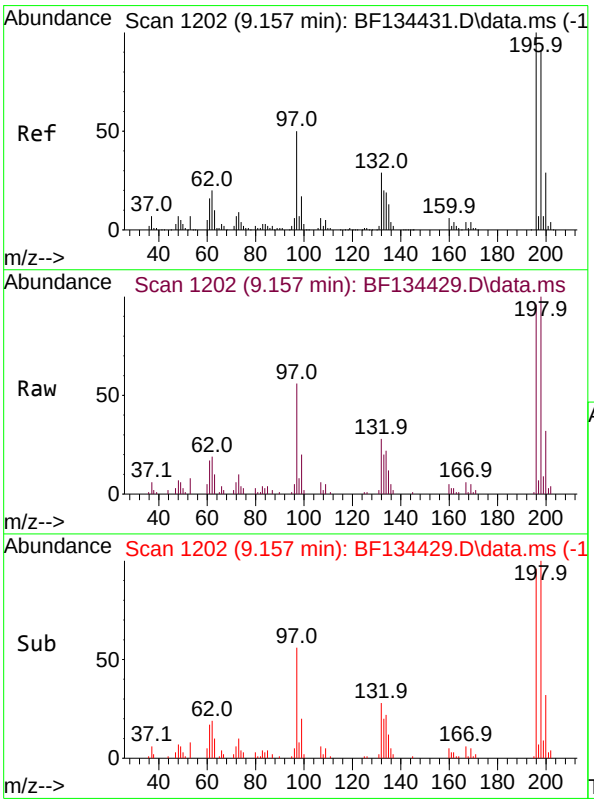
Ion	Ratio	Lower	Upper
196	100		
198	96.9	77.4	116.2
200	26.8	25.4	38.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

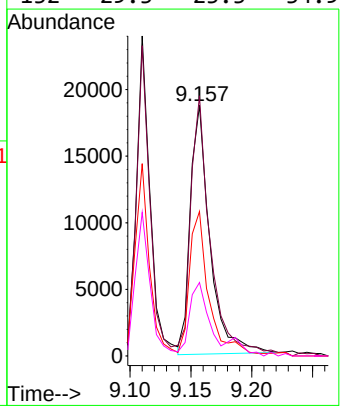
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

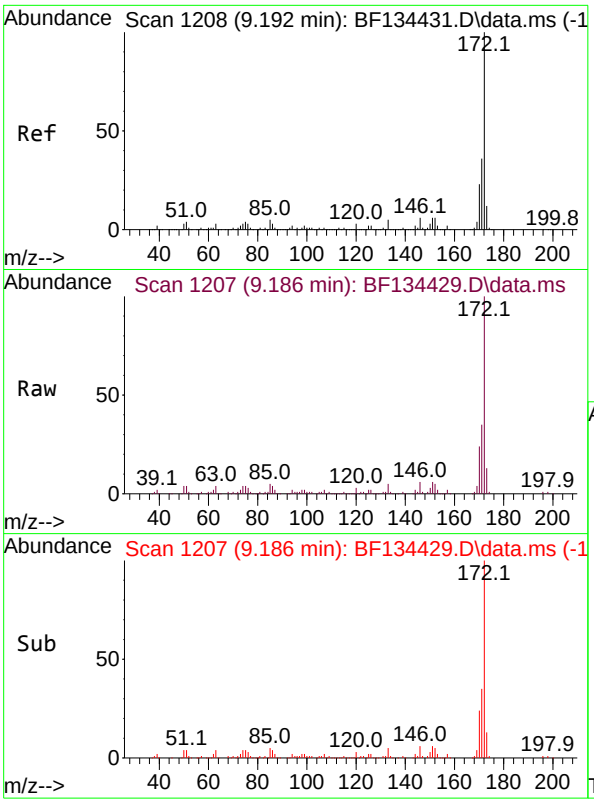


#44
2,4,5-Trichlorophenol
Concen: 9.541 ng
RT: 9.157 min Scan# 1202
Delta R.T. 0.000 min
Lab File: BF134429.D
Acq: 24 Jul 2023 14:53

Tgt Ion:196 Resp: 20999

Ion	Ratio	Lower	Upper
196	100		
198	103.9	73.0	109.4
97	57.7	40.8	61.2
132	29.3	23.3	34.9

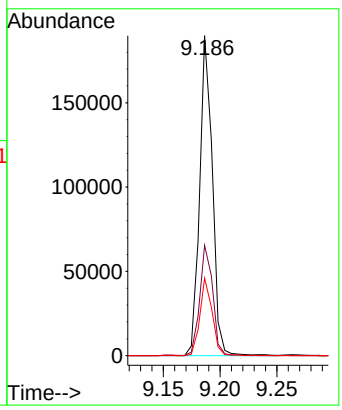




#45
2-Fluorobiphenyl
Concen: 20.927 ng
RT: 9.186 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF134429.D
Acq: 24 Jul 2023 14:53

Tgt Ion:172 Resp: 14811

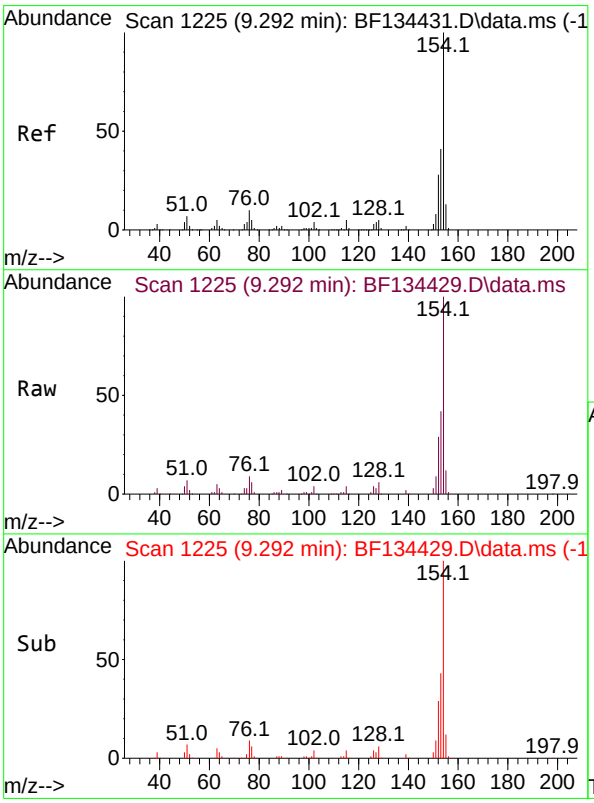
Ion	Ratio	Lower	Upper
172	100		
171	34.5	28.8	43.2
170	24.2	18.7	28.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

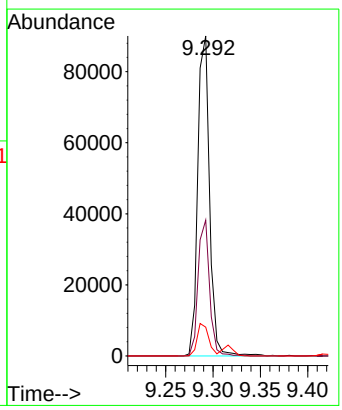
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

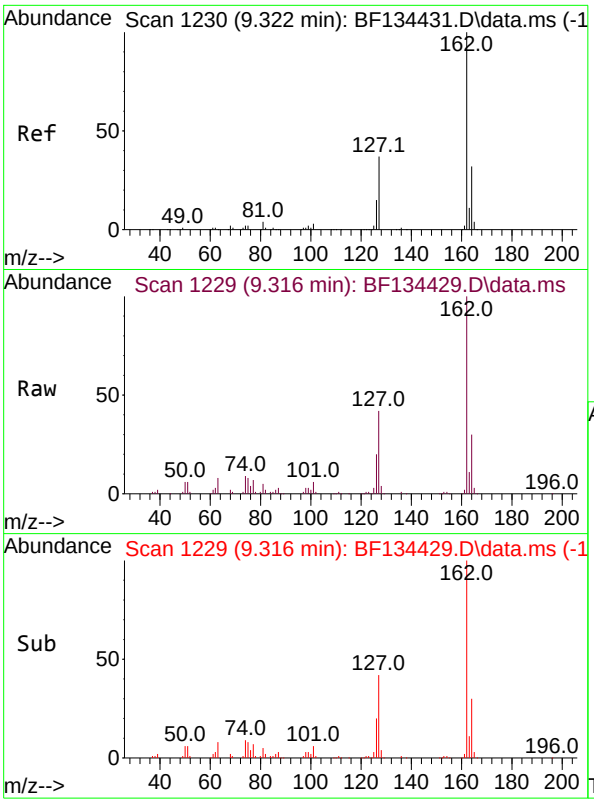


#46
1,1'-Biphenyl
Concen: 10.184 ng
RT: 9.292 min Scan# 1225
Delta R.T. 0.000 min
Lab File: BF134429.D
Acq: 24 Jul 2023 14:53

Tgt Ion:154 Resp: 77991

Ion	Ratio	Lower	Upper
154	100		
153	42.4	20.8	60.8
76	9.0	0.0	30.2

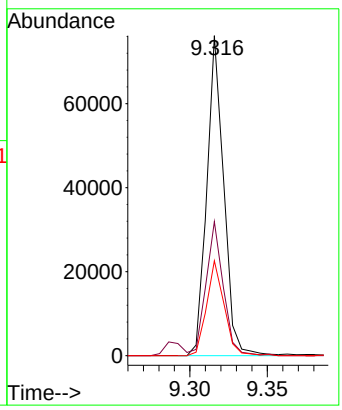




#47
2-Chloronaphthalene
Concen: 10.273 ng
RT: 9.316 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF134429.D
Acq: 24 Jul 2023 14:53

Tgt Ion:162 Resp: 5800

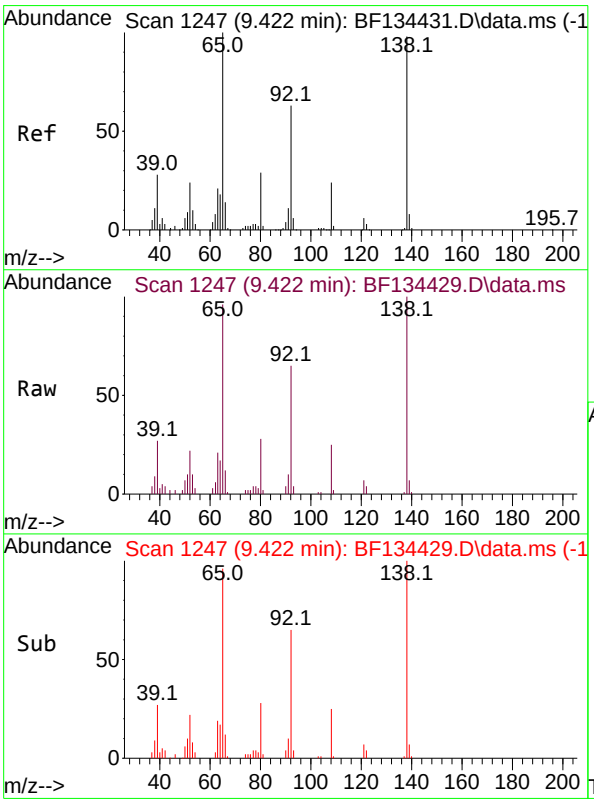
Ion	Ratio	Lower	Upper
162	100		
127	41.9	34.0	51.0
164	29.7	25.7	38.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

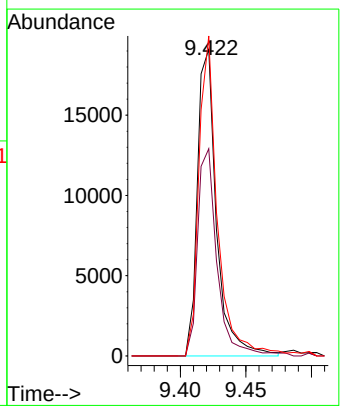
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

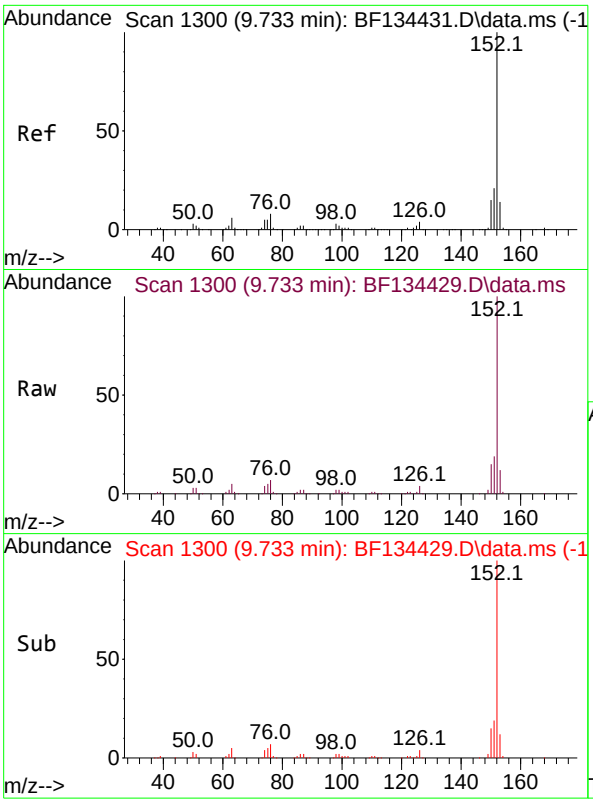


#48
2-Nitroaniline
Concen: 9.546 ng
RT: 9.422 min Scan# 1247
Delta R.T. 0.000 min
Lab File: BF134429.D
Acq: 24 Jul 2023 14:53

Tgt Ion: 65 Resp: 19410

Ion	Ratio	Lower	Upper
65	100		
92	67.6	50.7	76.1
138	104.4	78.2	117.4

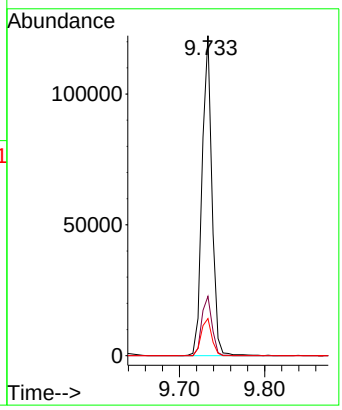




#49
Acenaphthylene
Concen: 10.296 ng
RT: 9.733 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134429.D
Acq: 24 Jul 2023 14:53

Tgt Ion:152 Resp: 9820

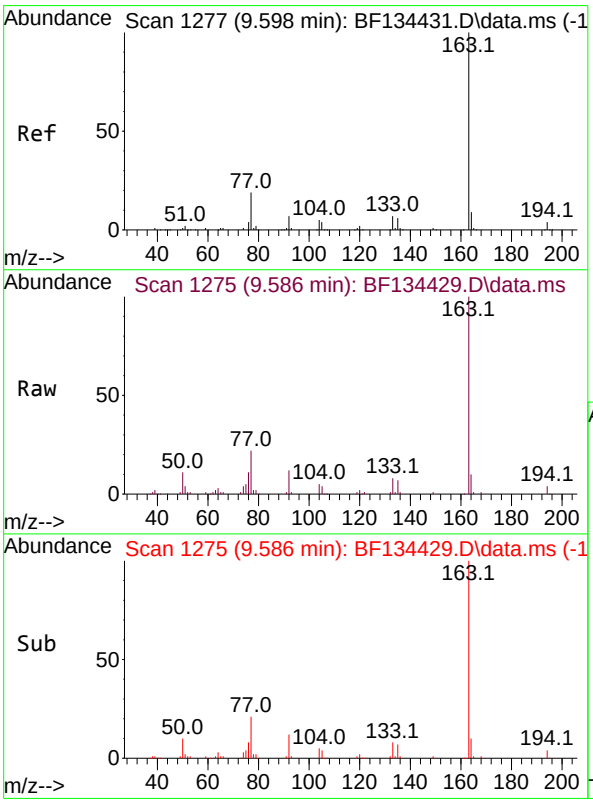
Ion	Ratio	Lower	Upper
152	100		
151	18.6	16.4	24.6
153	11.6	10.9	16.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

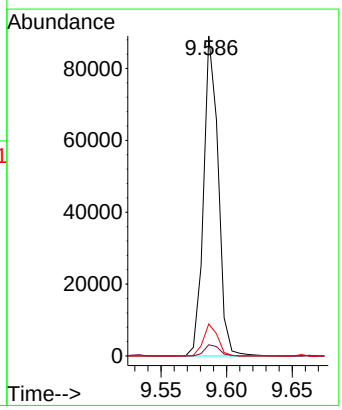
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

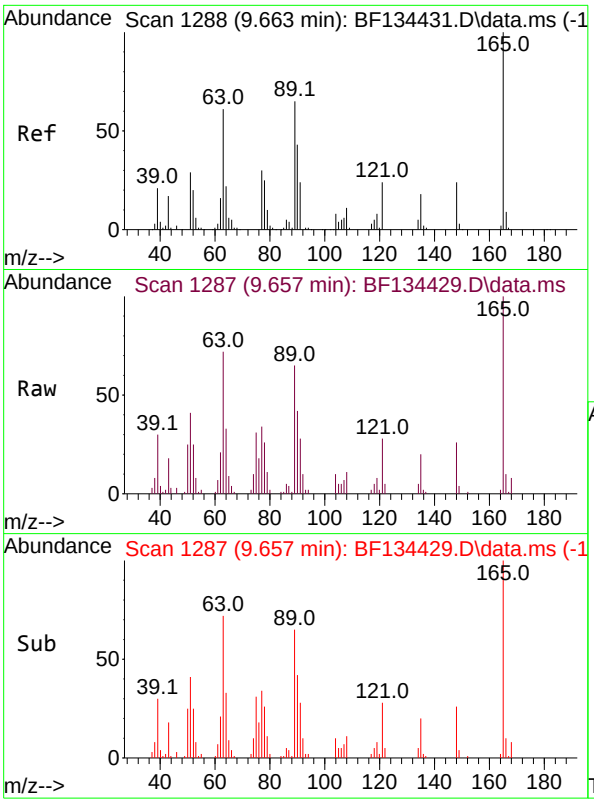


#50
Dimethylphthalate
Concen: 10.037 ng
RT: 9.586 min Scan# 1275
Delta R.T. -0.012 min
Lab File: BF134429.D
Acq: 24 Jul 2023 14:53

Tgt Ion:163 Resp: 69138

Ion	Ratio	Lower	Upper
163	100		
194	3.5	3.3	4.9
164	10.0	7.5	11.3





#51
2,6-Dinitrotoluene
Concen: 9.726 ng
RT: 9.657 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF134429.D
Acq: 24 Jul 2023 14:53

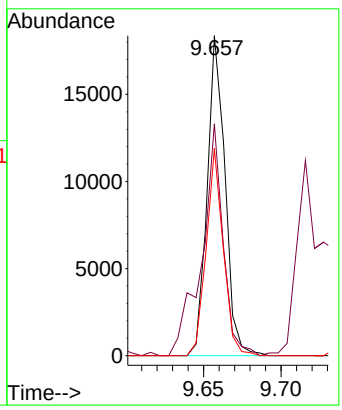
Tgt Ion:165 Resp: 1470

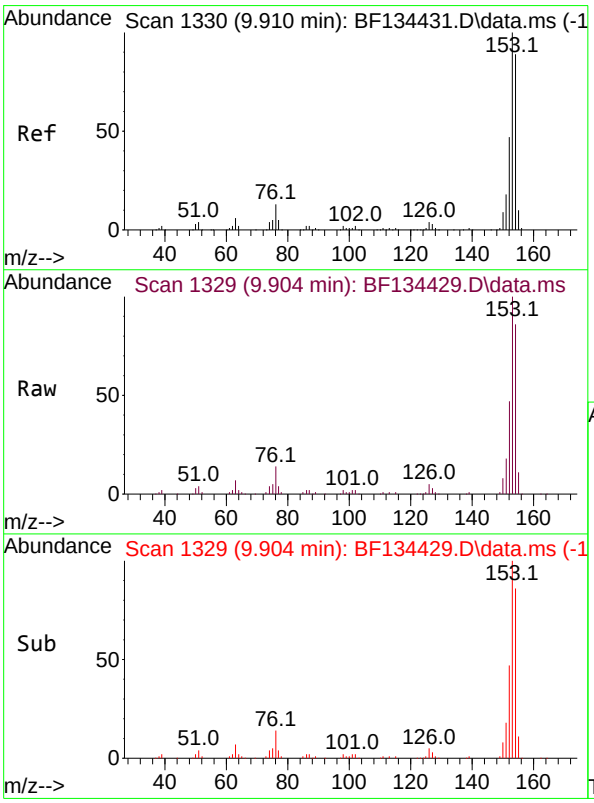
Ion	Ratio	Lower	Upper
165	100		
63	72.5	57.8	86.6
89	64.7	51.8	77.8

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

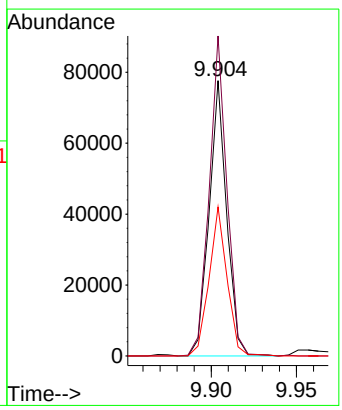


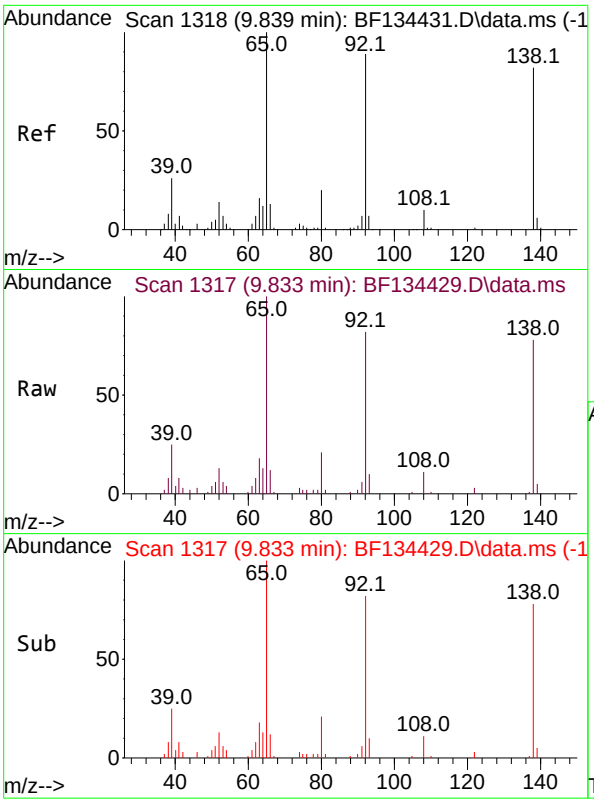


#52
Acenaphthene
Concen: 9.892 ng
RT: 9.904 min Scan# 1329
Delta R.T. -0.006 min
Lab File: BF134429.D
Acq: 24 Jul 2023 14:53

Tgt Ion:154 Resp: 55738

Ion	Ratio	Lower	Upper
154	100		
153	116.2	90.0	135.0
152	54.1	42.4	63.6

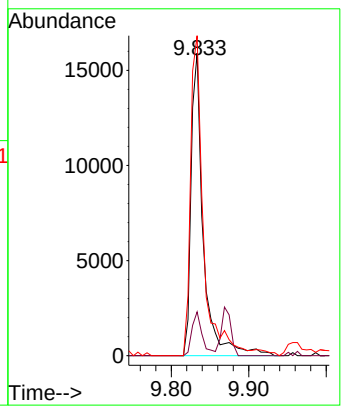




#53
3-Nitroaniline
Concen: 10.045 ng
RT: 9.833 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF134429.D
Acq: 24 Jul 2023 14:53

Tgt Ion:138 Resp: 1740

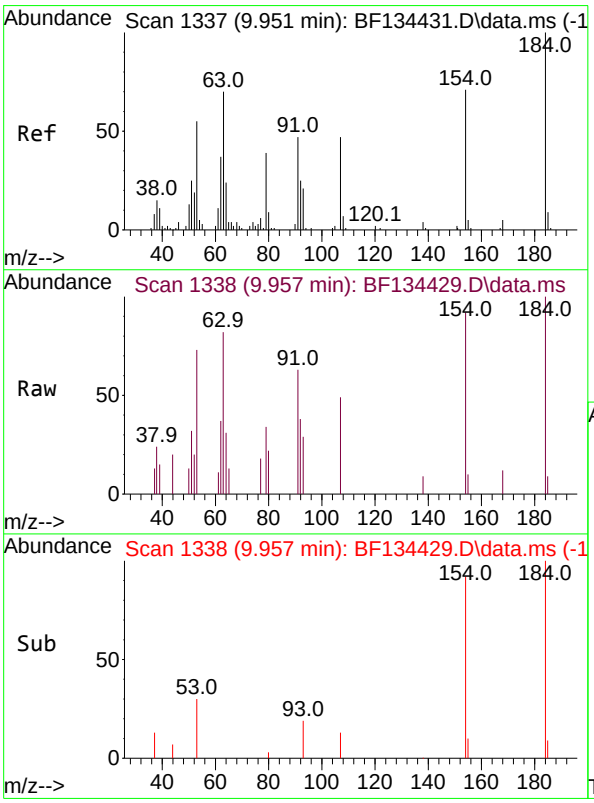
Ion	Ratio	Lower	Upper
138	100		
108	14.5	9.3	13.9#
92	105.7	86.6	129.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

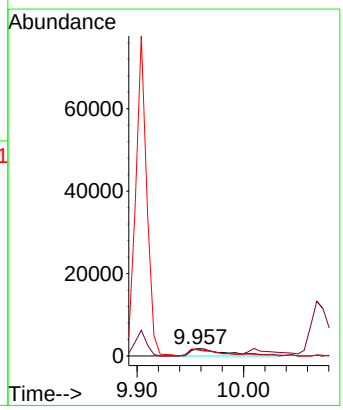
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

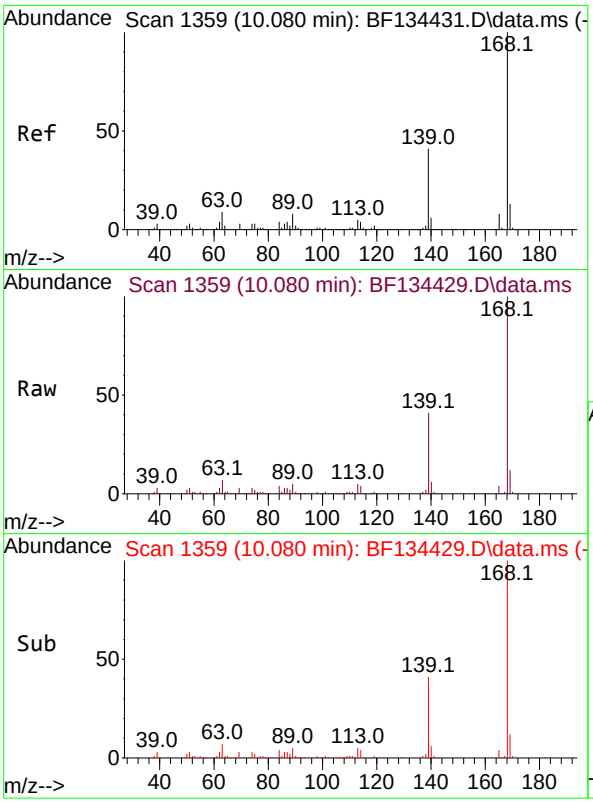


#54
2,4-Dinitrophenol
Concen: 11.333 ng
RT: 9.957 min Scan# 1338
Delta R.T. 0.006 min
Lab File: BF134429.D
Acq: 24 Jul 2023 14:53

Tgt Ion:184 Resp: 4115

Ion	Ratio	Lower	Upper
184	100		
63	82.3	57.1	85.7
154	92.3	59.1	88.7#

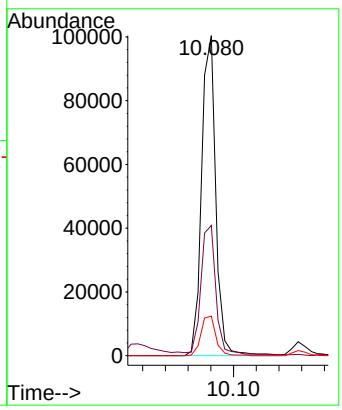




#55
Dibenzofuran
Concen: 10.028 ng
RT: 10.080 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134429.D
Acq: 24 Jul 2023 14:53

Tgt Ion:168 Resp: 8695

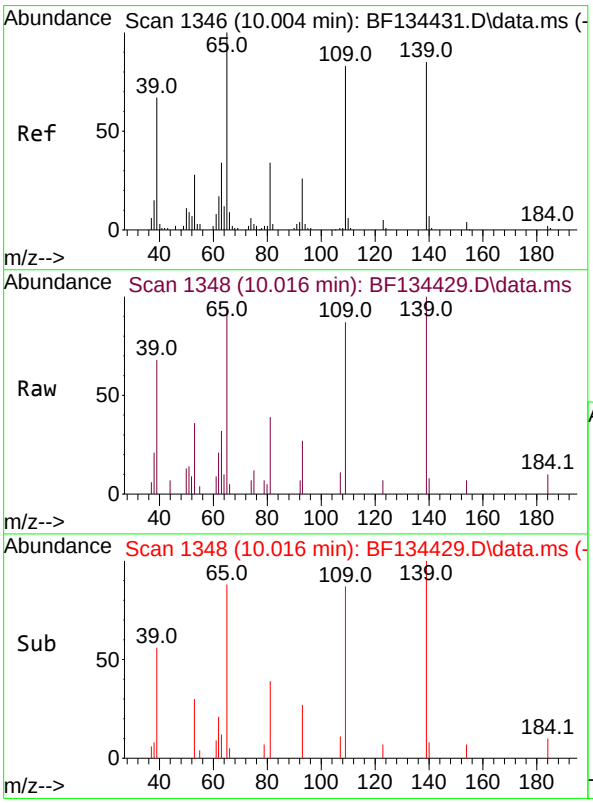
Ion	Ratio	Lower	Upper
168	100		
139	40.7	33.4	50.2
169	12.4	10.6	15.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

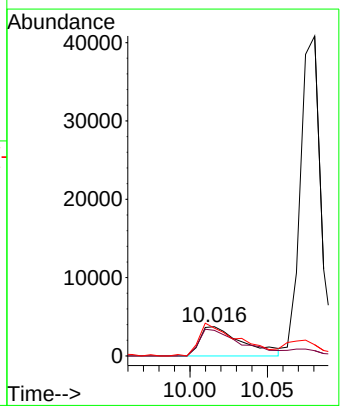
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

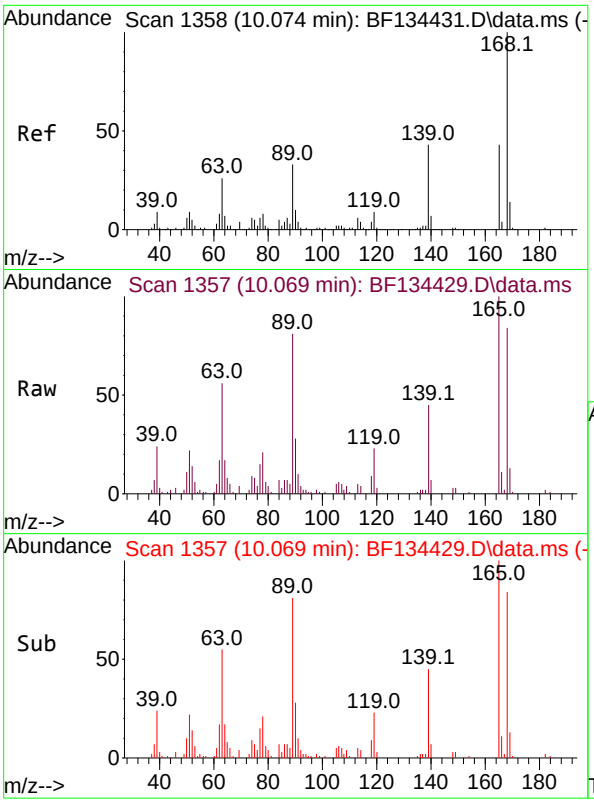


#56
4-Nitrophenol
Concen: 7.706 ng
RT: 10.016 min Scan# 1348
Delta R.T. 0.012 min
Lab File: BF134429.D
Acq: 24 Jul 2023 14:53

Tgt Ion:139 Resp: 7121

Ion	Ratio	Lower	Upper
139	100		
109	87.3	76.9	116.9
65	95.1	98.5	138.5#

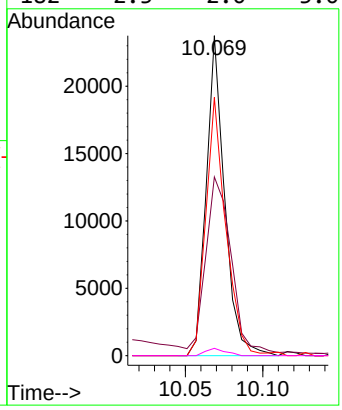




#57
2,4-Dinitrotoluene
Concen: 9.668 ng
RT: 10.069 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF134429.D
Acq: 24 Jul 2023 14:53

Tgt Ion:165 Resp: 1962

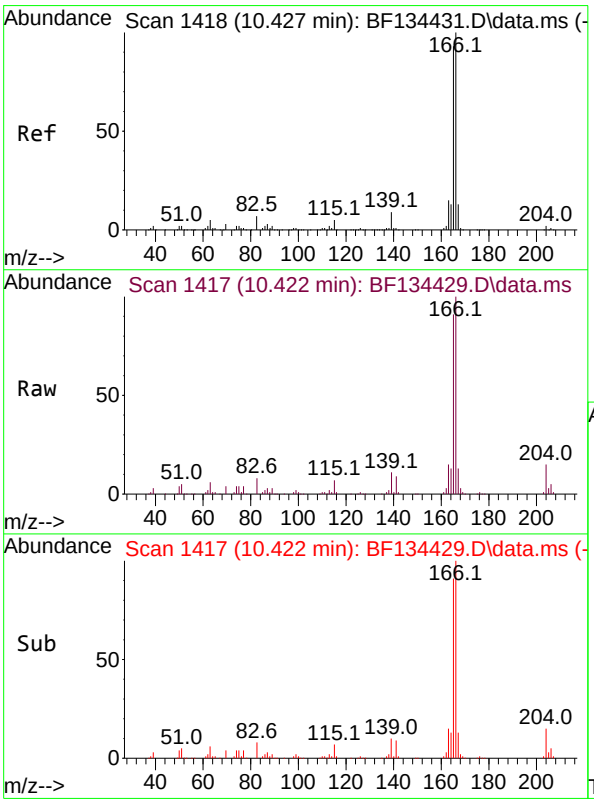
Ion	Ratio	Lower	Upper
165	100		
63	55.9	48.9	73.3
89	80.7	61.7	92.5
182	2.3	2.0	3.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

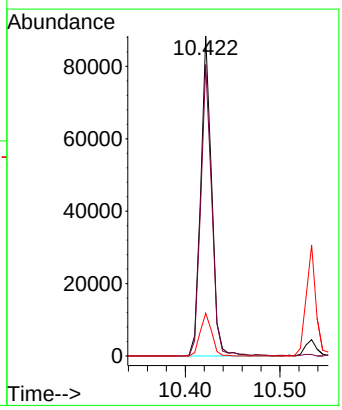
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

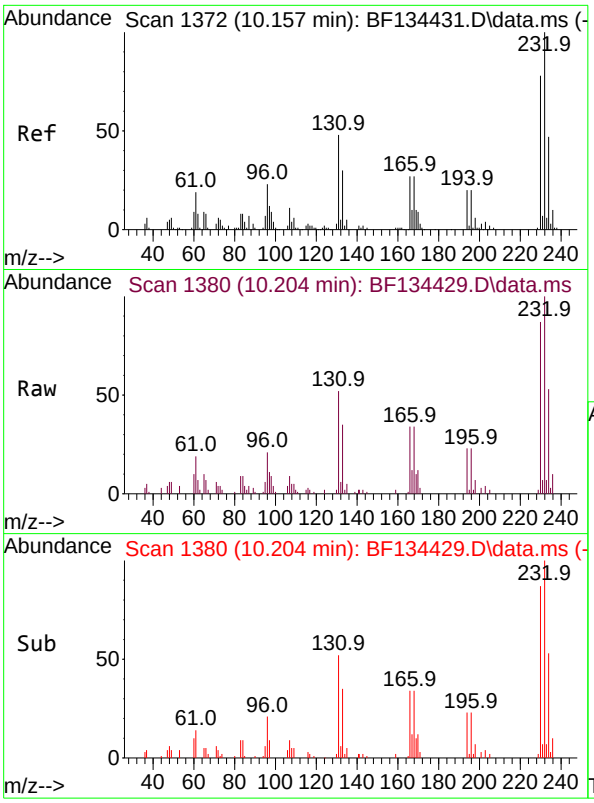


#58
Fluorene
Concen: 10.162 ng
RT: 10.422 min Scan# 1417
Delta R.T. -0.005 min
Lab File: BF134429.D
Acq: 24 Jul 2023 14:53

Tgt Ion:166 Resp: 71096

Ion	Ratio	Lower	Upper
166	100		
165	91.0	74.5	111.7
167	13.3	10.6	16.0

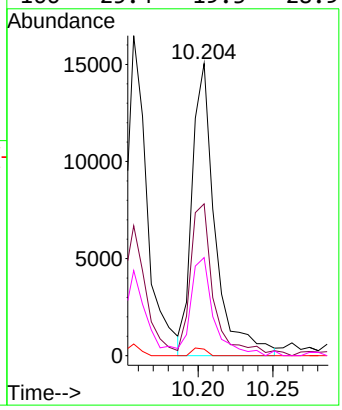




#59
2,3,4,6-Tetrachlorophenol
Concen: 9.552 ng m
RT: 10.204 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134429.D
Acq: 24 Jul 2023 14:53

Tgt Ion:232 Resp: 1621

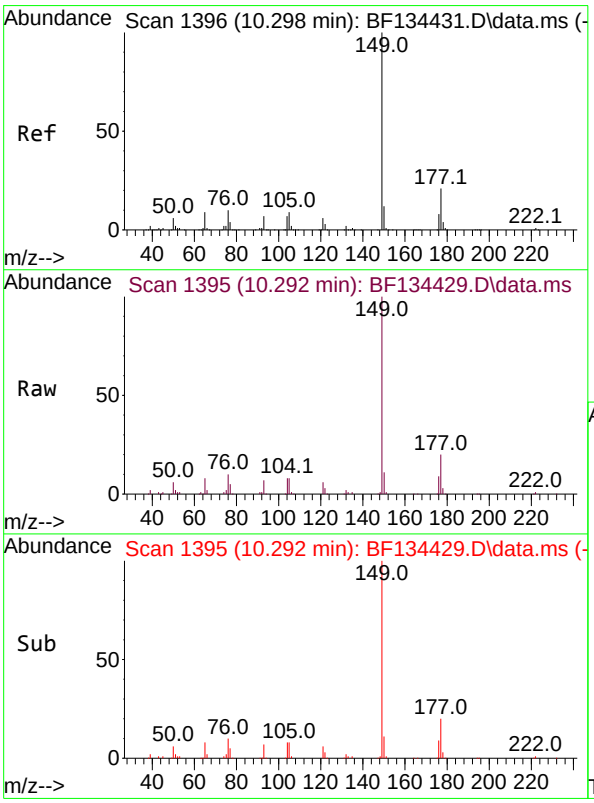
Ion	Ratio	Lower	Upper
232	100		
131	40.8	33.4	50.0
130	2.3	1.8	2.6
166	25.4	19.3	28.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

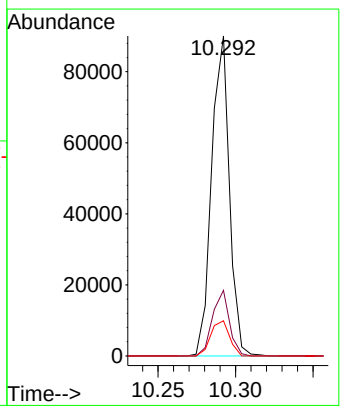
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

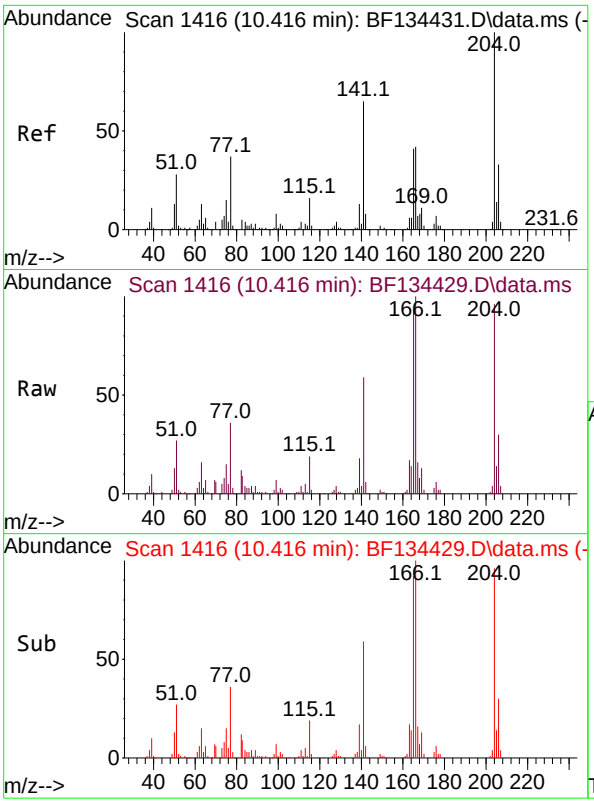


#60
Diethylphthalate
Concen: 10.063 ng
RT: 10.292 min Scan# 1395
Delta R.T. -0.006 min
Lab File: BF134429.D
Acq: 24 Jul 2023 14:53

Tgt Ion:149 Resp: 71766

Ion	Ratio	Lower	Upper
149	100		
177	20.5	17.0	25.4
150	11.0	9.9	14.9

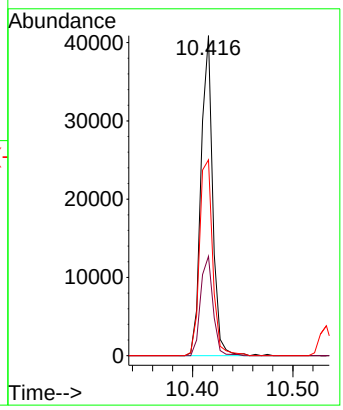




#61
4-Chlorophenyl-phenylether
Concen: 9.927 ng
RT: 10.416 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF134429.D
Acq: 24 Jul 2023 14:53

Tgt Ion:204 Resp: 3317

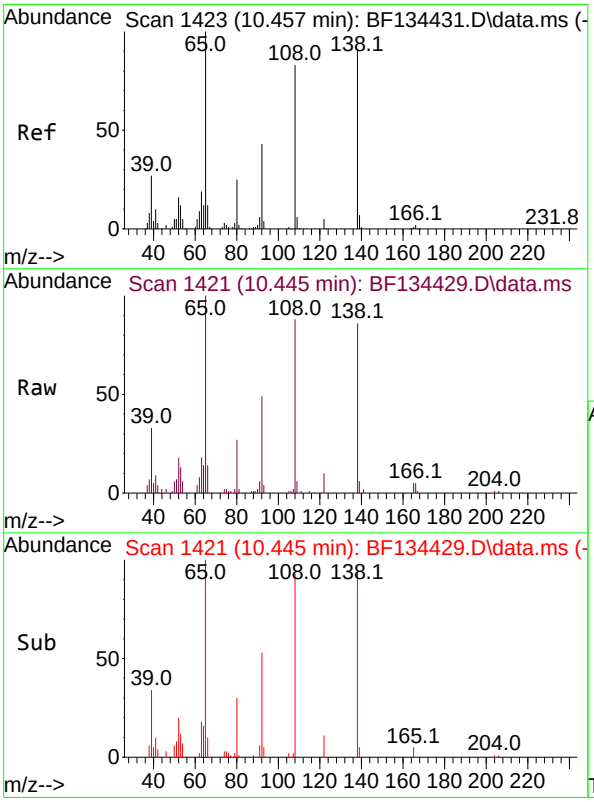
Ion	Ratio	Lower	Upper
204	100		
206	31.0	26.0	39.0
141	61.2	52.2	78.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

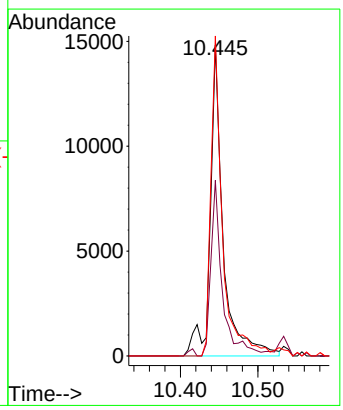
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

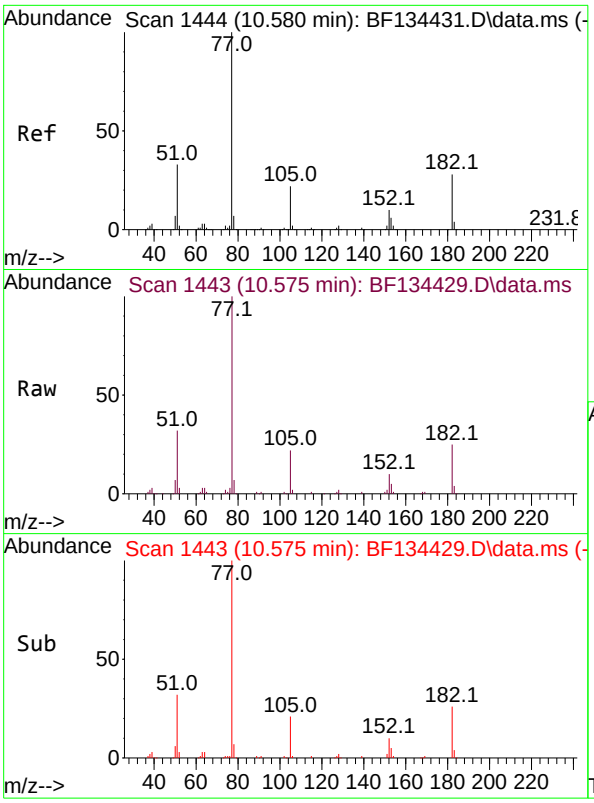


#62
4-Nitroaniline
Concen: 9.674 ng
RT: 10.445 min Scan# 1421
Delta R.T. -0.012 min
Lab File: BF134429.D
Acq: 24 Jul 2023 14:53

Tgt Ion:138 Resp: 17192

Ion	Ratio	Lower	Upper
138	100		
92	56.5	27.0	67.0
108	102.9	70.4	110.4

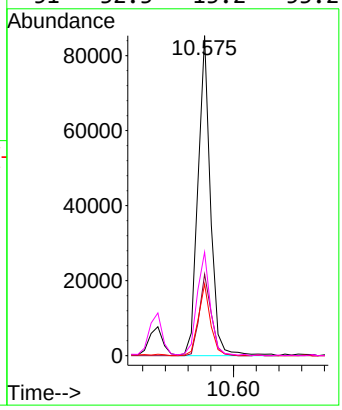




#63
Azobenzene
Concen: 9.882 ng
RT: 10.575 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF134429.D
Acq: 24 Jul 2023 14:53

Tgt Ion: 77 Resp: 6486

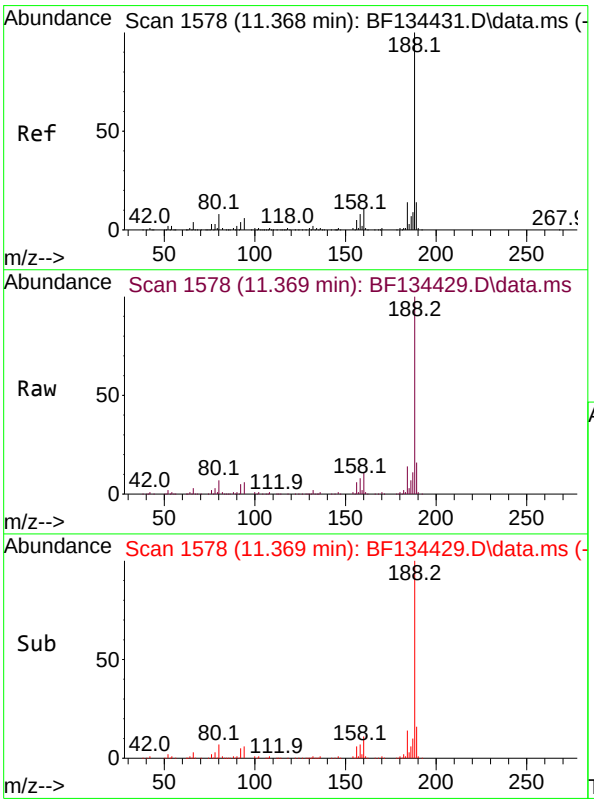
Ion	Ratio	Lower	Upper
77	100		
182	25.4	7.5	47.5
105	22.4	1.9	41.9
51	32.3	13.2	53.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

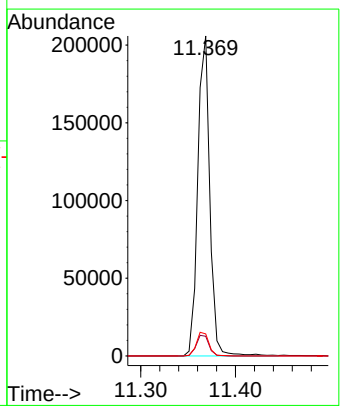
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

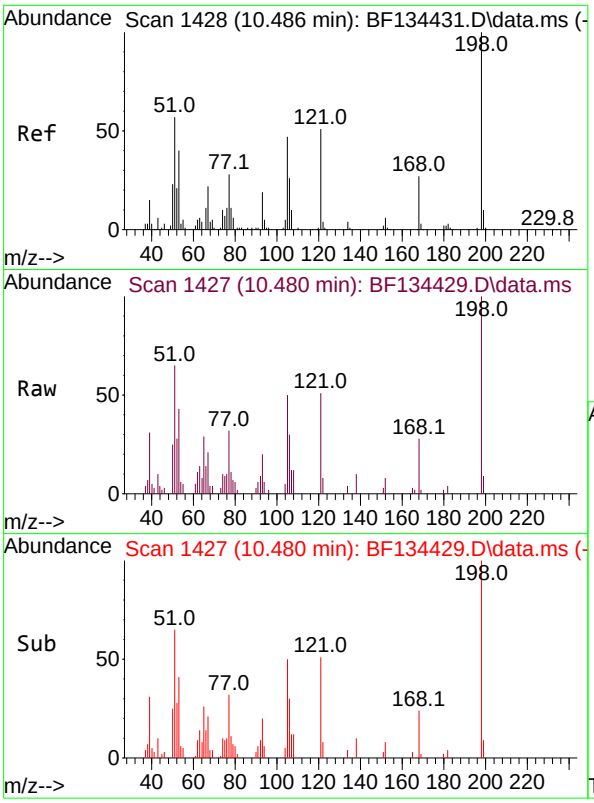


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.369 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BF134429.D
Acq: 24 Jul 2023 14:53

Tgt Ion:188 Resp: 181268

Ion	Ratio	Lower	Upper
188	100		
94	6.1	5.1	7.7
80	6.9	6.6	9.8

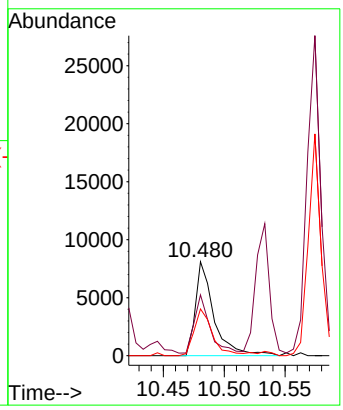




#65
4,6-Dinitro-2-methylphenol
Concen: 8.257 ng
RT: 10.480 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF134429.D
Acq: 24 Jul 2023 14:53

Tgt Ion:198 Resp: 858

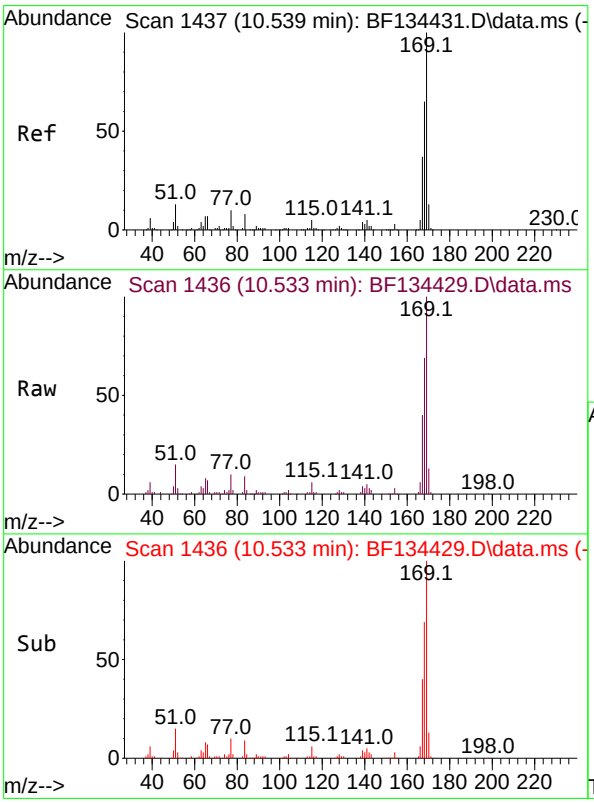
Ion	Ratio	Lower	Upper
198	100		
51	64.7	38.6	78.6
105	49.8	27.9	67.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

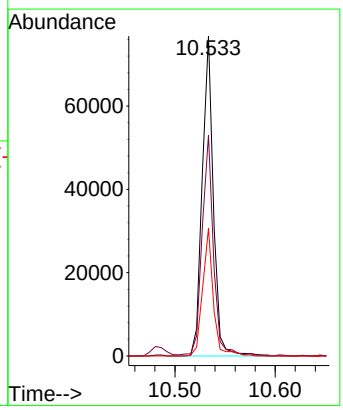
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

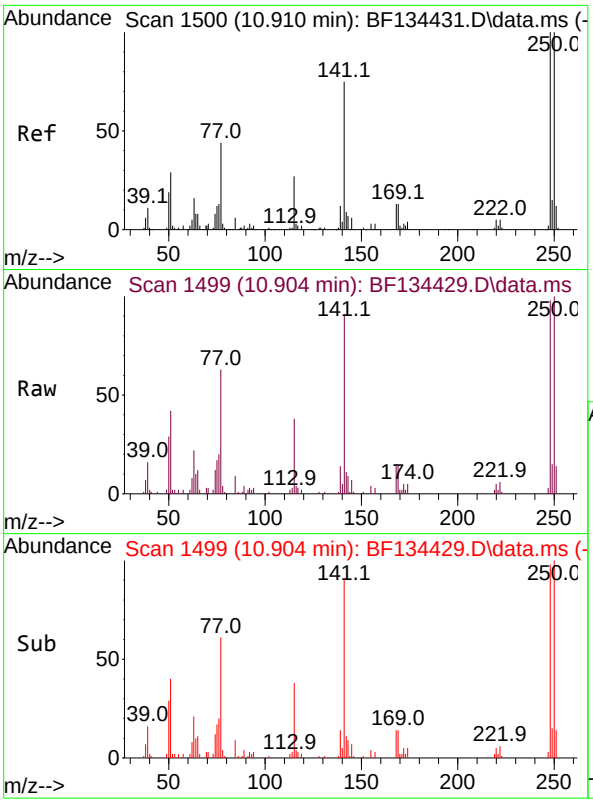


#66
n-Nitrosodiphenylamine
Concen: 10.330 ng
RT: 10.533 min Scan# 1436
Delta R.T. -0.006 min
Lab File: BF134429.D
Acq: 24 Jul 2023 14:53

Tgt Ion:169 Resp: 59573

Ion	Ratio	Lower	Upper
169	100		
168	69.1	52.6	78.8
167	39.9	29.8	44.8

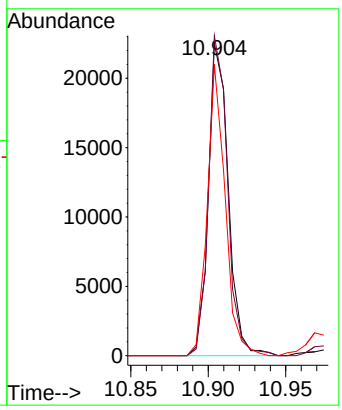




#67
4-Bromophenyl-phenylether
Concen: 10.103 ng
RT: 10.904 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF134429.D
Acq: 24 Jul 2023 14:53

Tgt Ion:248 Resp: 2006

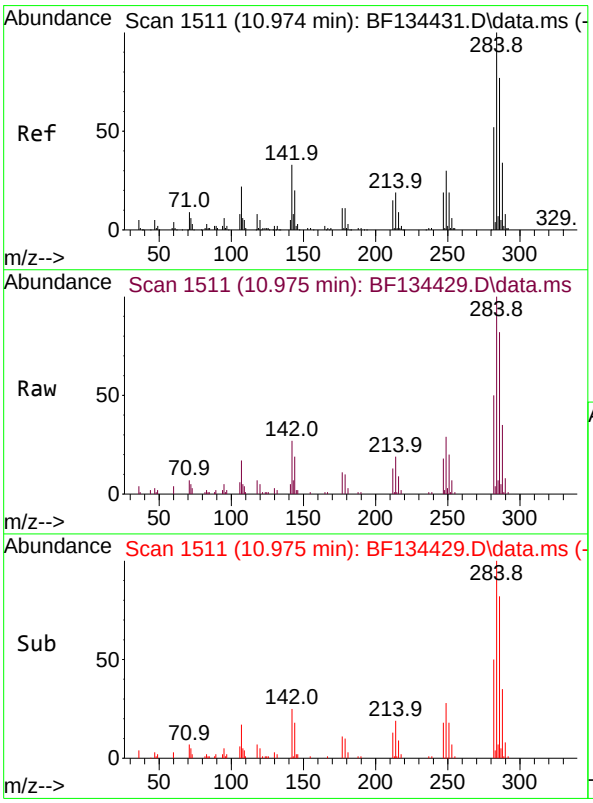
Ion	Ratio	Lower	Upper
248	100		
250	102.5	79.6	119.4
141	93.3	59.6	89.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

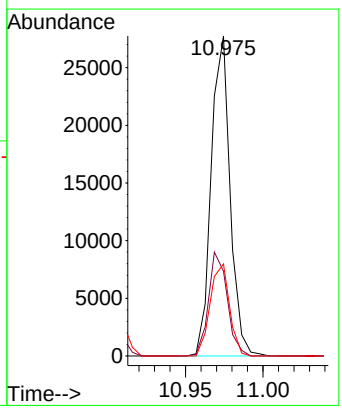
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

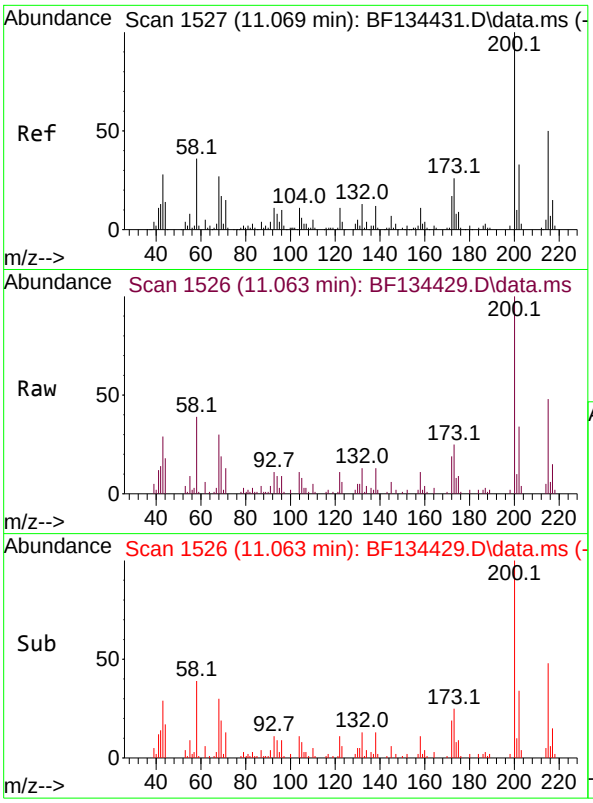


#68
Hexachlorobenzene
Concen: 10.501 ng
RT: 10.975 min Scan# 1511
Delta R.T. 0.000 min
Lab File: BF134429.D
Acq: 24 Jul 2023 14:53

Tgt Ion:284 Resp: 23486

Ion	Ratio	Lower	Upper
284	100		
142	26.5	26.5	39.7
249	28.7	23.8	35.8

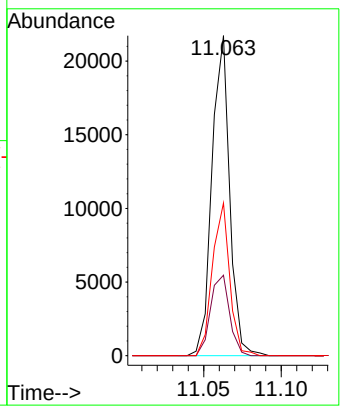




#69
Atrazine
Concen: 10.716 ng
RT: 11.063 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF134429.D
Acq: 24 Jul 2023 14:53

Tgt Ion:200 Resp: 1723

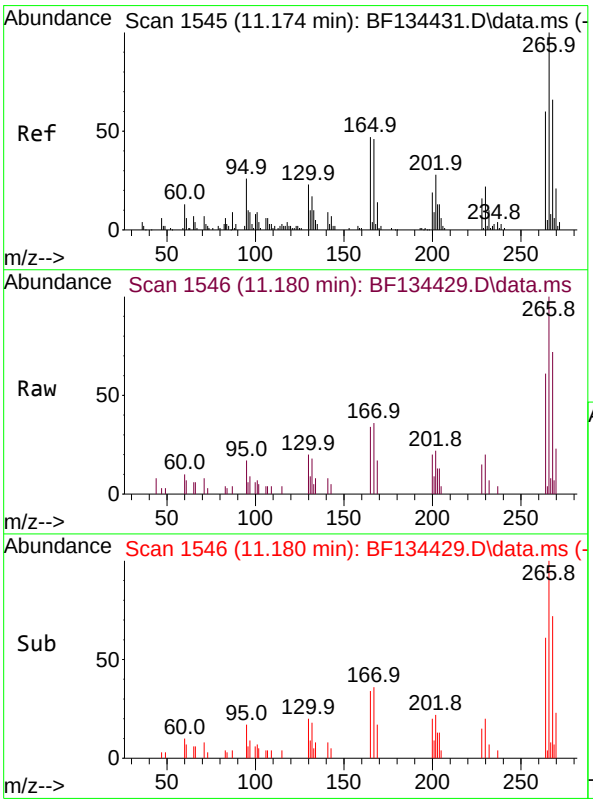
Ion	Ratio	Lower	Upper
200	100		
173	25.2	6.1	46.1
215	47.7	29.7	69.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

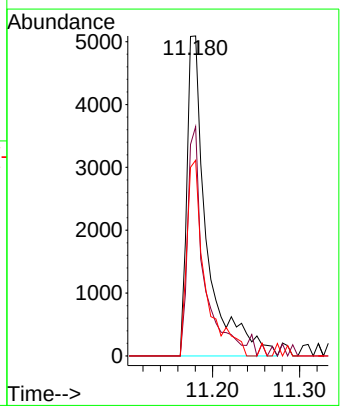
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

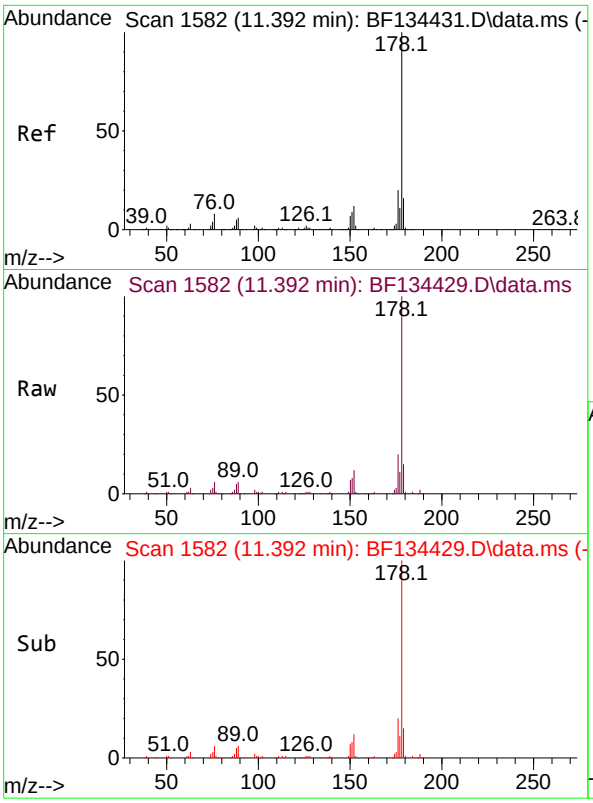


#70
Pentachlorophenol
Concen: 8.682 ng m
RT: 11.180 min Scan# 1546
Delta R.T. 0.006 min
Lab File: BF134429.D
Acq: 24 Jul 2023 14:53

Tgt Ion:266 Resp: 8149

Ion	Ratio	Lower	Upper
266	100		
268	71.7	52.9	79.3
264	61.2	47.8	71.6

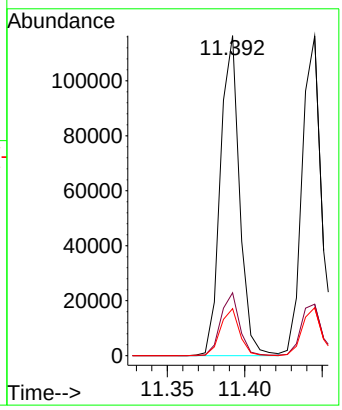




#71
Phenanthrene
Concen: 10.561 ng
RT: 11.392 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134429.D
Acq: 24 Jul 2023 14:53

Tgt Ion:178 Resp: 10002

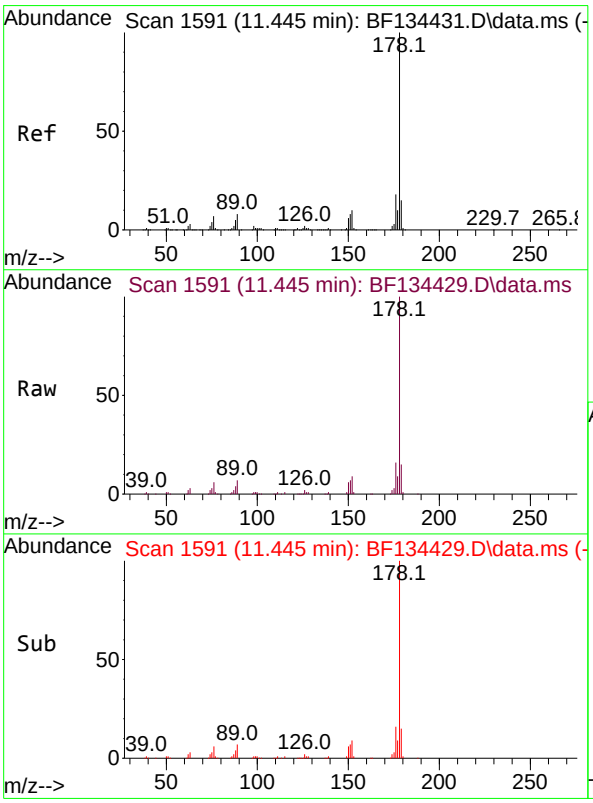
Ion	Ratio	Lower	Upper
178	100		
176	19.7	15.8	23.6
179	14.7	12.7	19.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

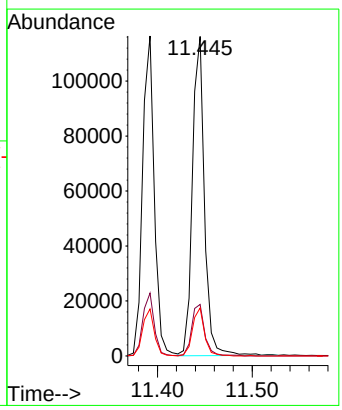
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

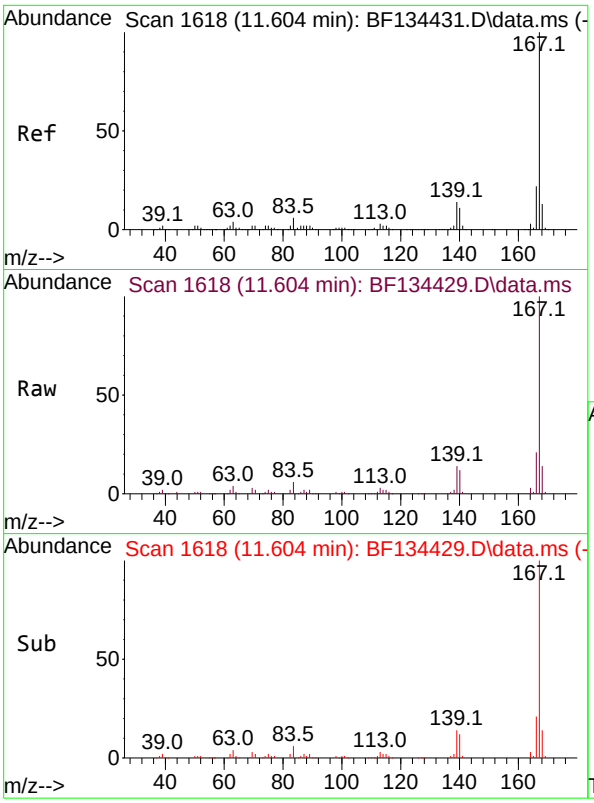


#72
Anthracene
Concen: 10.510 ng
RT: 11.445 min Scan# 1591
Delta R.T. 0.000 min
Lab File: BF134429.D
Acq: 24 Jul 2023 14:53

Tgt Ion:178 Resp: 102739

Ion	Ratio	Lower	Upper
178	100		
176	16.1	14.6	21.8
179	15.0	12.3	18.5

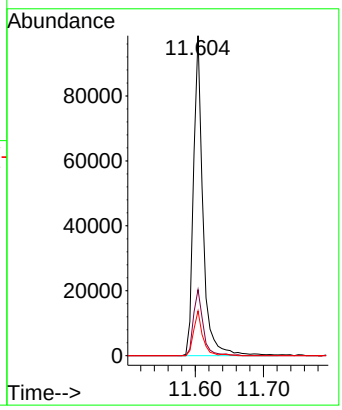




#73
Carbazole
Concen: 10.334 ng
RT: 11.604 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134429.D
Acq: 24 Jul 2023 14:53

Tgt Ion:167 Resp: 9512

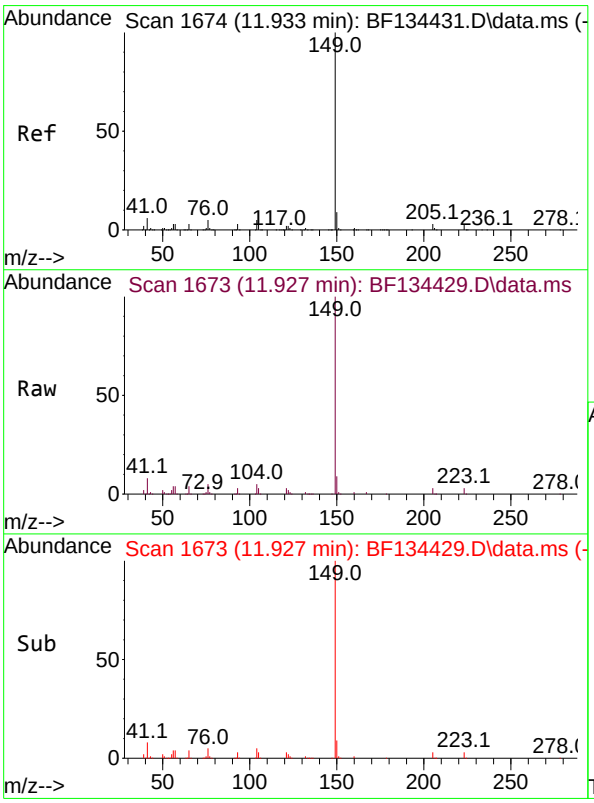
Ion	Ratio	Lower	Upper
167	100		
166	20.6	17.5	26.3
139	14.0	11.0	16.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

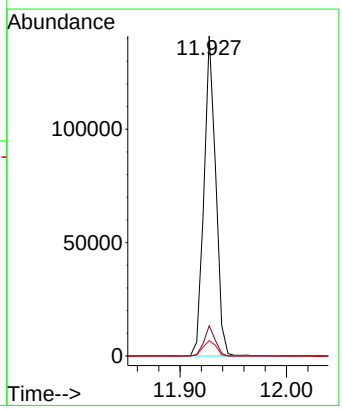
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

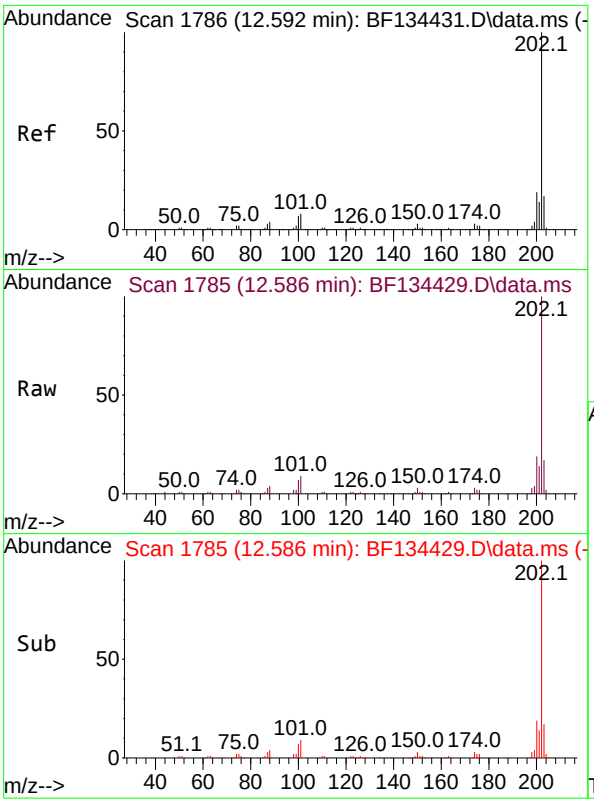


#74
Di-n-butylphthalate
Concen: 10.265 ng
RT: 11.927 min Scan# 1673
Delta R.T. -0.006 min
Lab File: BF134429.D
Acq: 24 Jul 2023 14:53

Tgt Ion:149 Resp: 108468

Ion	Ratio	Lower	Upper
149	100		
150	9.5	7.2	10.8
104	4.8	3.8	5.8

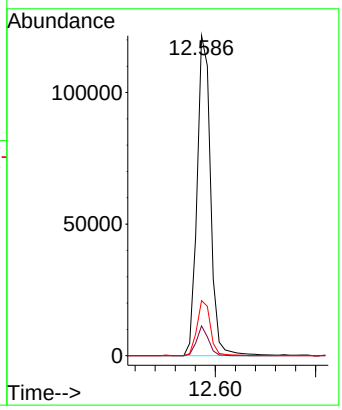




#75
Fluoranthene
Concen: 10.355 ng
RT: 12.586 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF134429.D
Acq: 24 Jul 2023 14:53

Tgt Ion:202 Resp: 11430

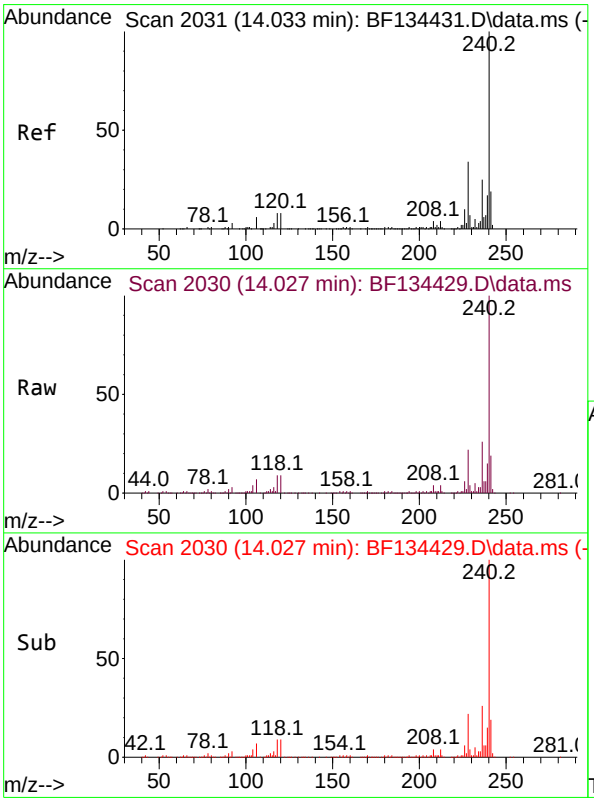
Ion	Ratio	Lower	Upper
202	100		
101	9.3	0.0	28.5
203	17.2	0.0	37.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

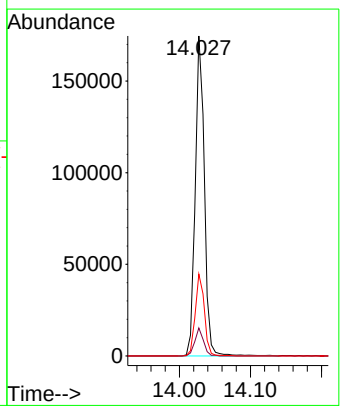
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

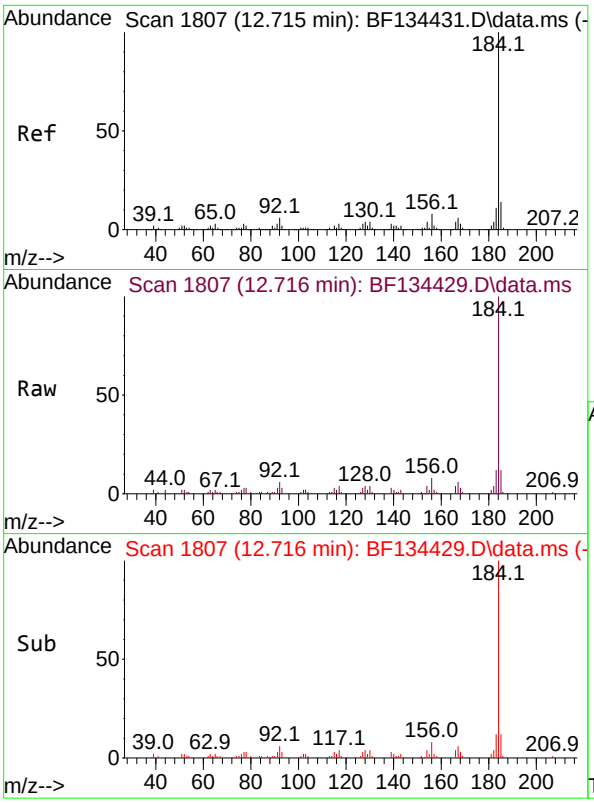


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.027 min Scan# 2030
Delta R.T. -0.006 min
Lab File: BF134429.D
Acq: 24 Jul 2023 14:53

Tgt Ion:240 Resp: 156648

Ion	Ratio	Lower	Upper
240	100		
120	8.7	6.6	10.0
236	25.6	20.2	30.2

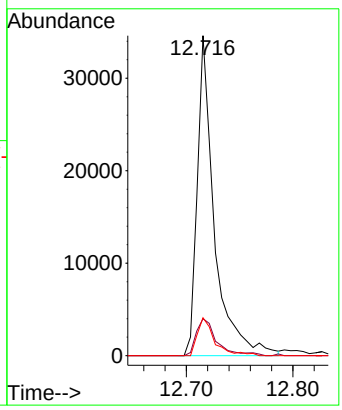




#77
Benzidine
Concen: 11.583 ng
RT: 12.716 min Scan# 1
Delta R.T. 0.001 min
Lab File: BF134429.D
Acq: 24 Jul 2023 14:53

Tgt Ion:184 Resp: 3874

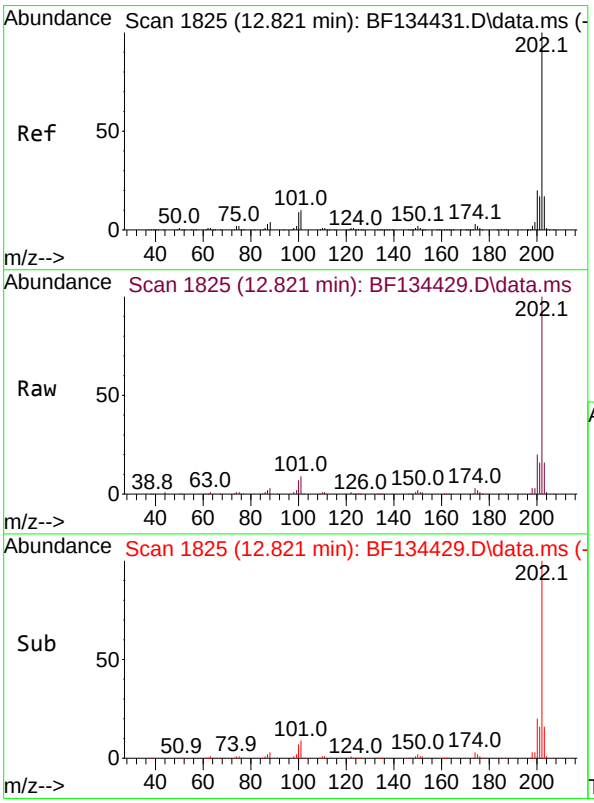
Ion	Ratio	Lower	Upper
184	100		
185	11.6	11.2	16.8
183	11.9	8.6	13.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

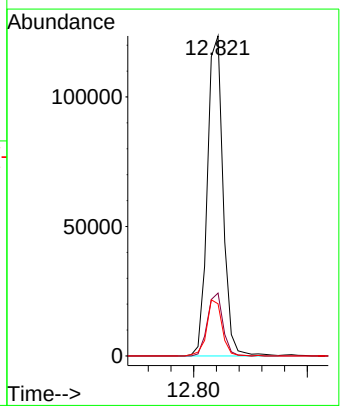
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

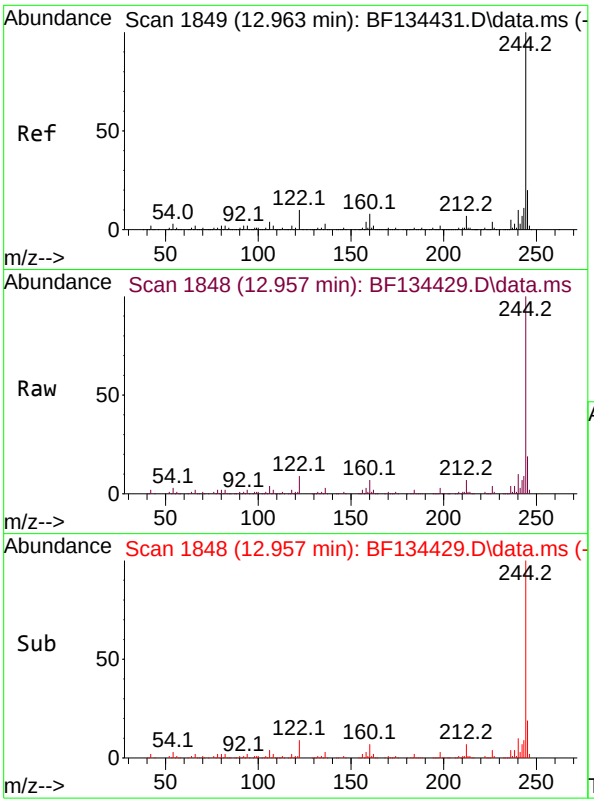


#78
Pyrene
Concen: 9.527 ng
RT: 12.821 min Scan# 1825
Delta R.T. 0.000 min
Lab File: BF134429.D
Acq: 24 Jul 2023 14:53

Tgt Ion:202 Resp: 118659

Ion	Ratio	Lower	Upper
202	100		
200	19.6	15.8	23.8
203	16.3	13.5	20.3

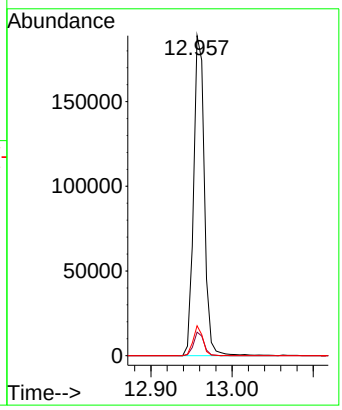




#79
Terphenyl-d14
Concen: 19.534 ng
RT: 12.957 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF134429.D
Acq: 24 Jul 2023 14:53

Tgt Ion:244 Resp: 17529

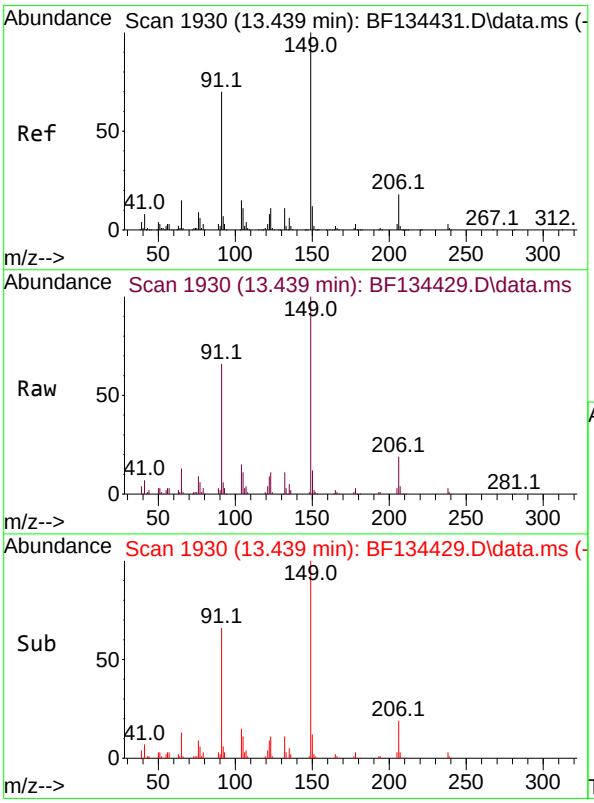
Ion	Ratio	Lower	Upper
244	100		
212	7.3	5.6	8.4
122	9.4	8.0	12.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

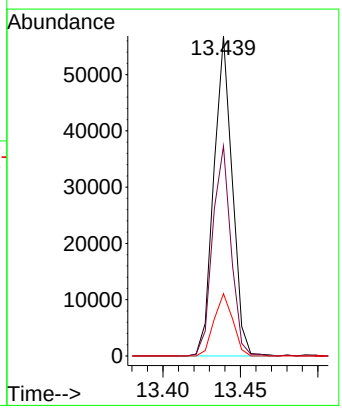
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

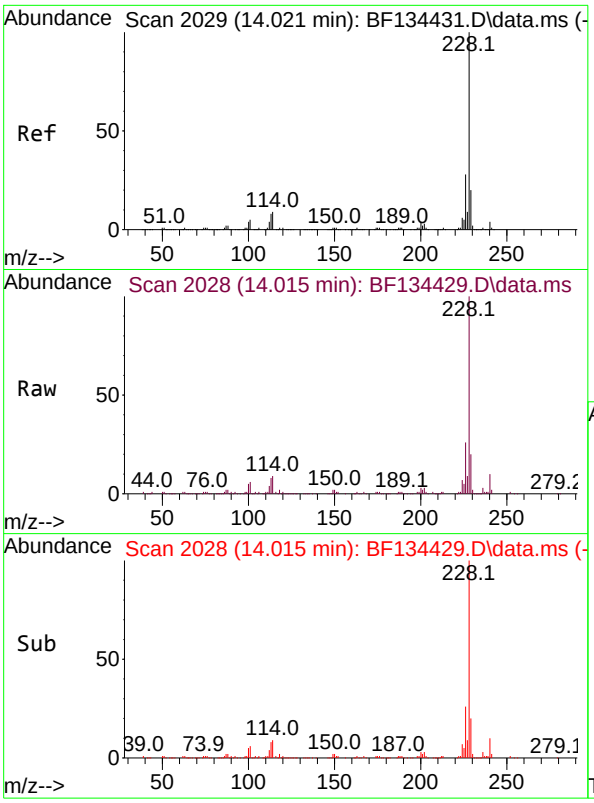


#80
Butylbenzylphthalate
Concen: 9.453 ng
RT: 13.439 min Scan# 1930
Delta R.T. 0.000 min
Lab File: BF134429.D
Acq: 24 Jul 2023 14:53

Tgt Ion:149 Resp: 47165

Ion	Ratio	Lower	Upper
149	100		
91	65.6	55.8	83.6
206	19.5	14.6	21.8

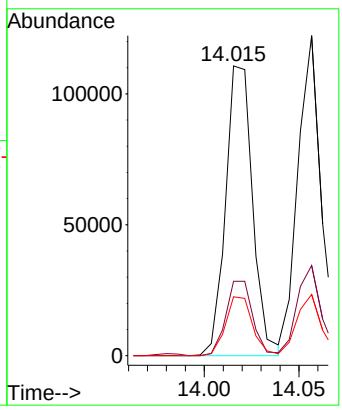




#81
Benzo(a)anthracene
Concen: 10.072 ng
RT: 14.015 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF134429.D
Acq: 24 Jul 2023 14:53

Tgt Ion:228 Resp: 11007

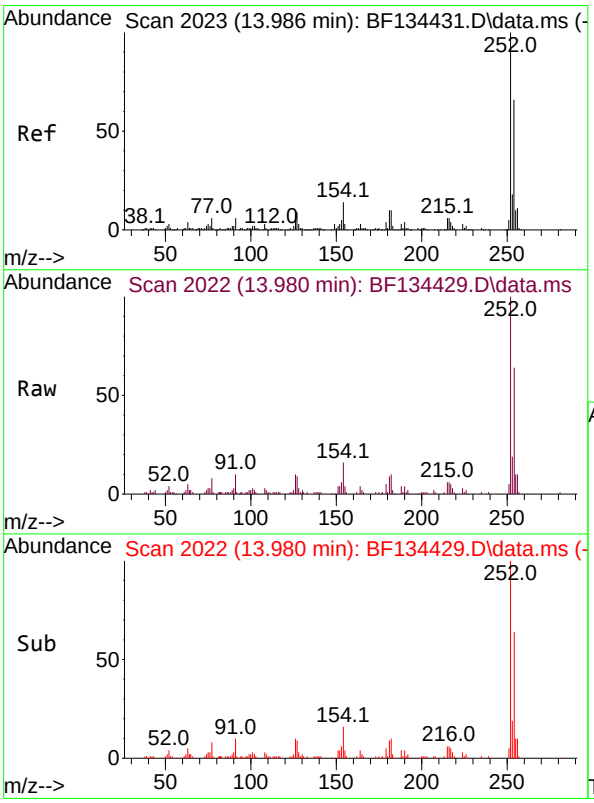
Ion	Ratio	Lower	Upper
228	100		
226	25.7	22.3	33.5
229	20.3	15.8	23.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

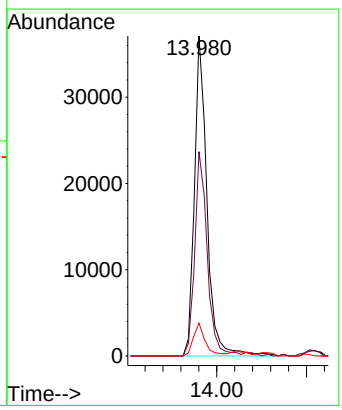
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

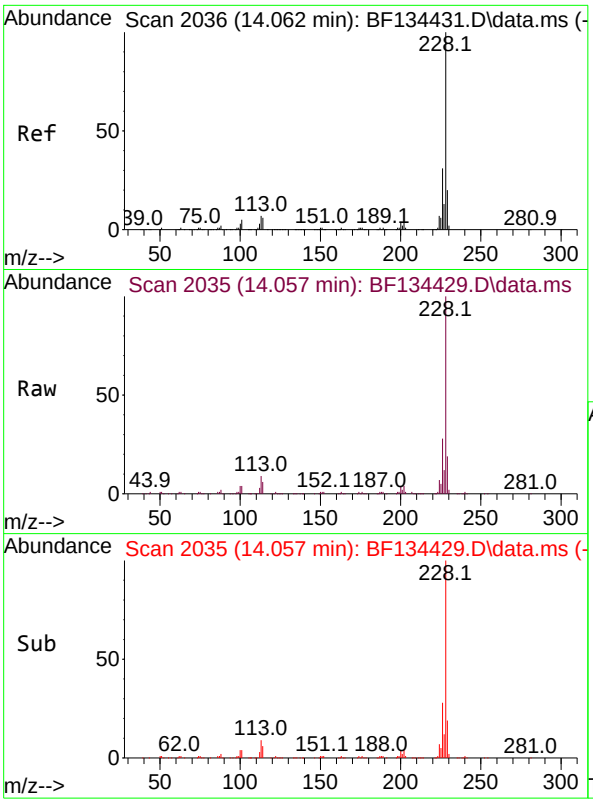


#82
3,3'-Dichlorobenzidine
Concen: 10.386 ng
RT: 13.980 min Scan# 2022
Delta R.T. -0.006 min
Lab File: BF134429.D
Acq: 24 Jul 2023 14:53

Tgt Ion:252 Resp: 35952

Ion	Ratio	Lower	Upper
252	100		
254	63.8	52.7	79.1
126	10.3	7.2	10.8

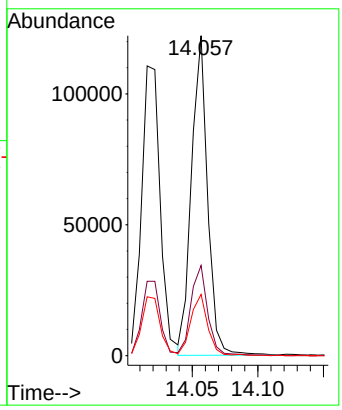




#83
Chrysene
Concen: 9.999 ng
RT: 14.057 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF134429.D
Acq: 24 Jul 2023 14:53

Tgt Ion:228 Resp: 10452

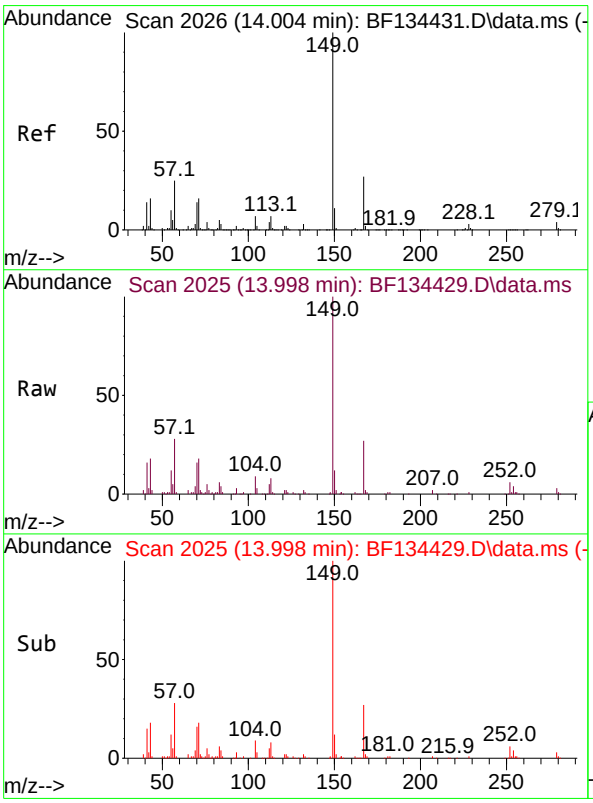
Ion	Ratio	Lower	Upper
228	100		
226	28.2	24.5	36.7
229	19.2	15.8	23.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

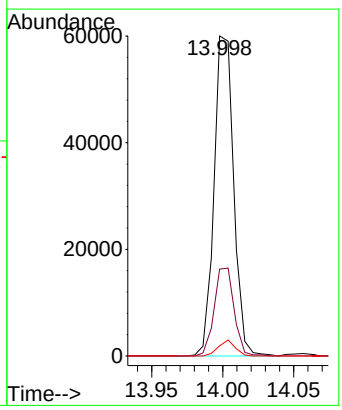
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

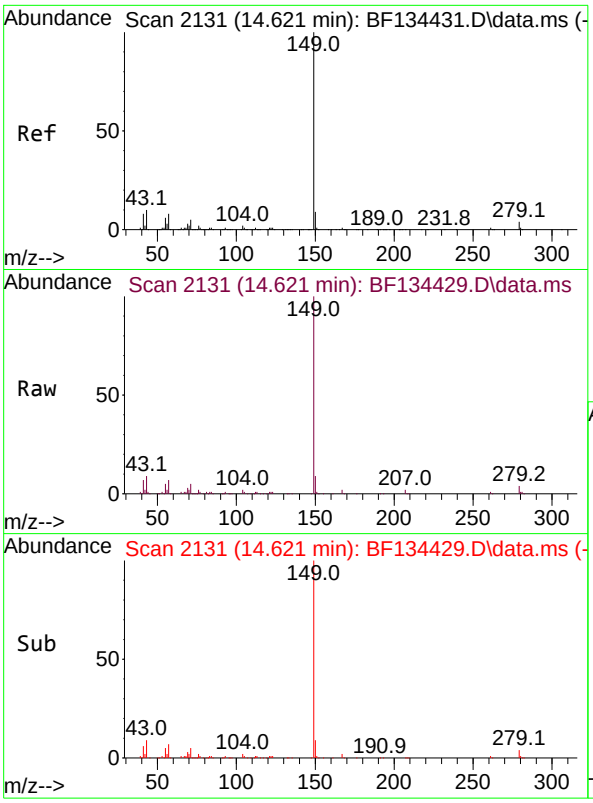


#84
Bis(2-ethylhexyl)phthalate
Concen: 9.505 ng
RT: 13.998 min Scan# 2025
Delta R.T. -0.006 min
Lab File: BF134429.D
Acq: 24 Jul 2023 14:53

Tgt Ion:149 Resp: 57616

Ion	Ratio	Lower	Upper
149	100		
167	27.2	21.6	32.4
279	3.2	3.5	5.3#

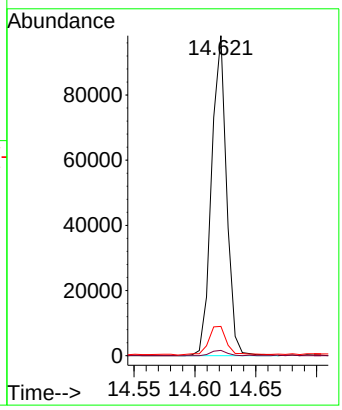




#85
Di-n-octyl phthalate
Concen: 10.009 ng
RT: 14.621 min Scan# 21
Delta R.T. 0.000 min
Lab File: BF134429.D
Acq: 24 Jul 2023 14:53

Tgt Ion:149 Resp: 8431

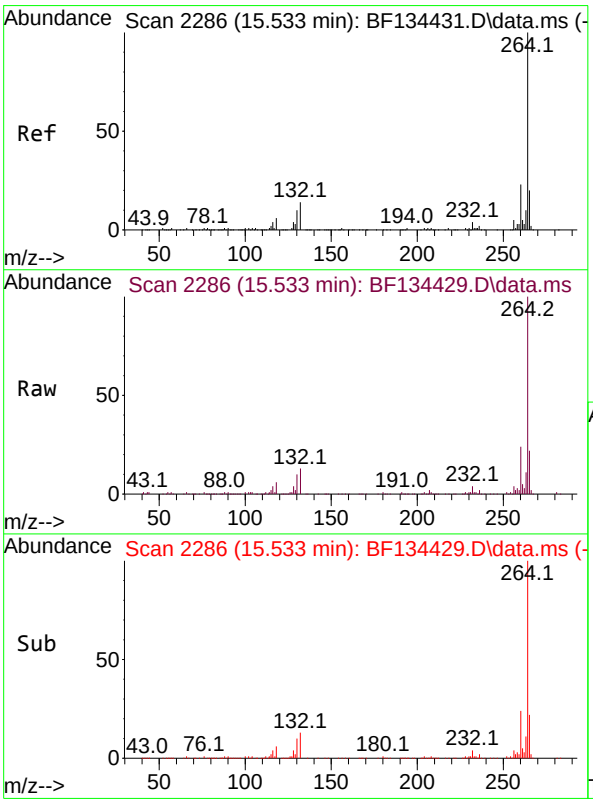
Ion	Ratio	Lower	Upper
149	100		
167	1.8	1.2	1.8
43	11.0	8.1	12.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

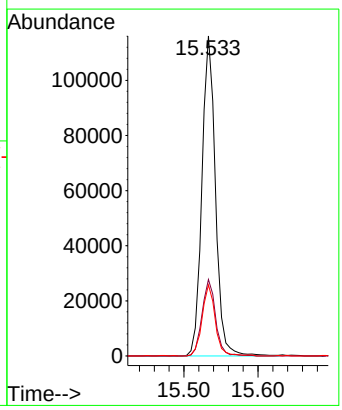
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

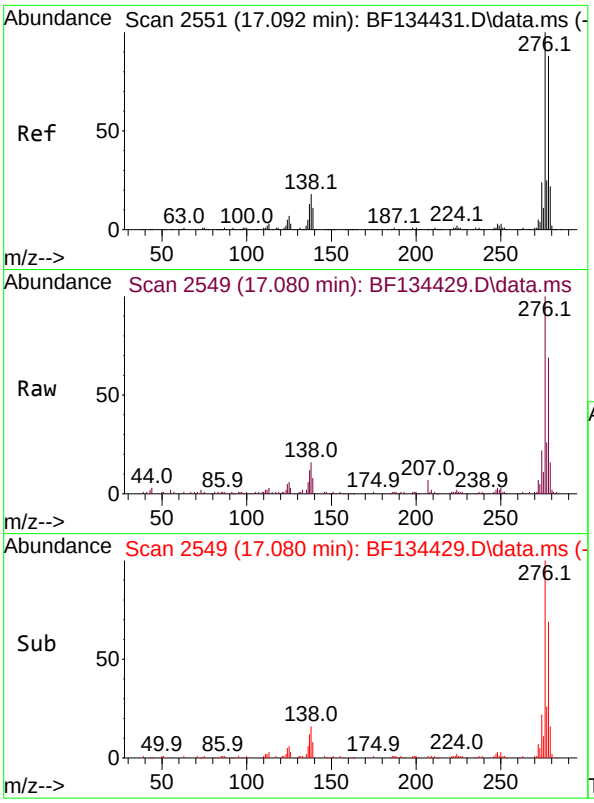


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.533 min Scan# 2286
Delta R.T. 0.000 min
Lab File: BF134429.D
Acq: 24 Jul 2023 14:53

Tgt Ion:264 Resp: 147998

Ion	Ratio	Lower	Upper
264	100		
260	23.9	18.4	27.6
265	22.2	15.8	23.8

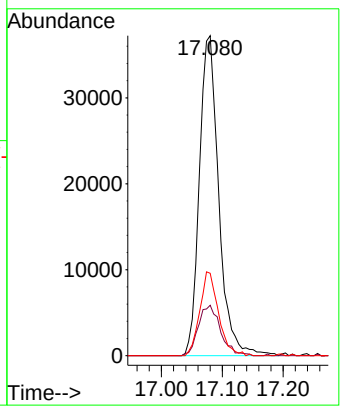




#87
Indeno(1,2,3-cd)pyrene
Concen: 8.529 ng
RT: 17.080 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF134429.D
Acq: 24 Jul 2023 14:53

Tgt Ion:276 Resp: 8246

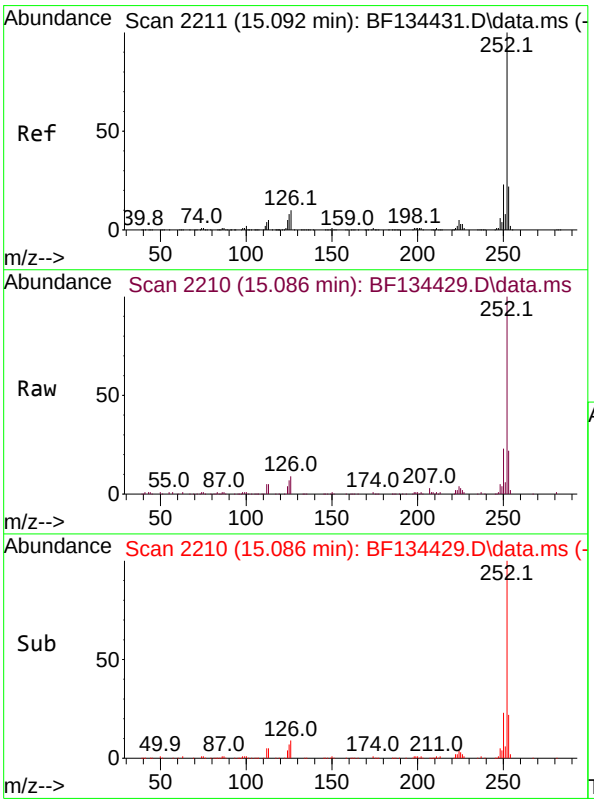
Ion	Ratio	Lower	Upper
276	100		
138	18.0	14.2	21.4
277	25.2	19.9	29.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

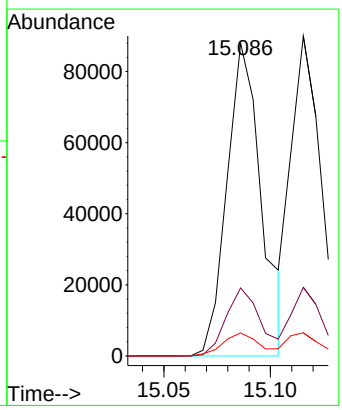
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

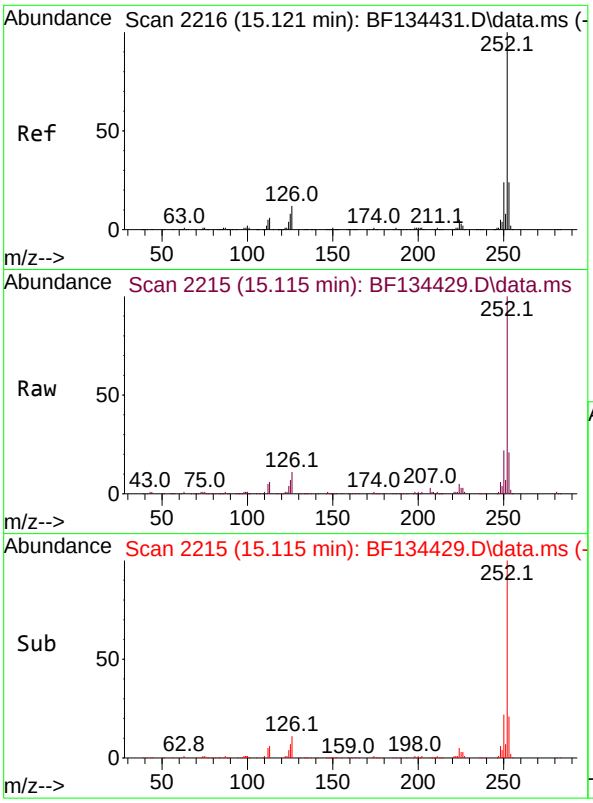


#88
Benzo(b)fluoranthene
Concen: 10.709 ng
RT: 15.086 min Scan# 2210
Delta R.T. -0.006 min
Lab File: BF134429.D
Acq: 24 Jul 2023 14:53

Tgt Ion:252 Resp: 99156

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.3	25.9
125	7.4	6.0	9.0





#89
Benzo(k)fluoranthene
Concen: 10.075 ng
RT: 15.115 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF134429.D
Acq: 24 Jul 2023 14:53

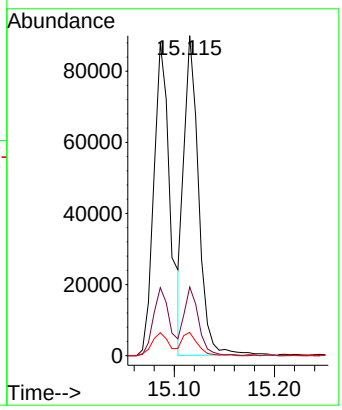
Tgt Ion:252 Resp: 9176

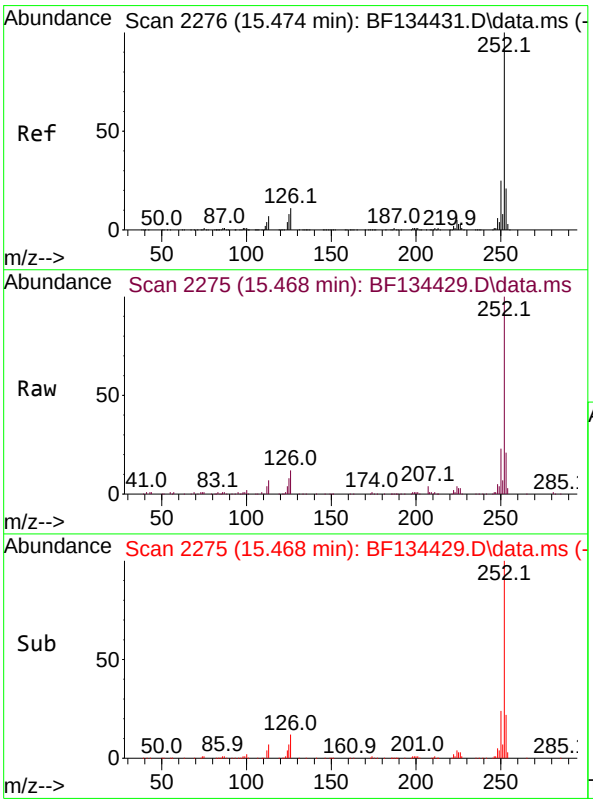
Ion	Ratio	Lower	Upper
252	100		
253	21.4	17.9	26.9
125	7.2	6.3	9.5

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

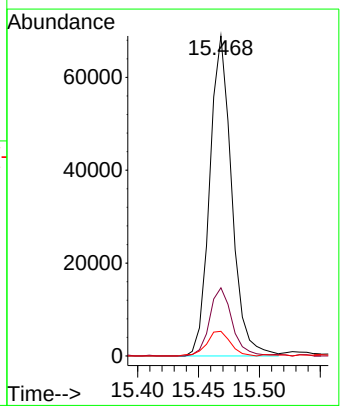


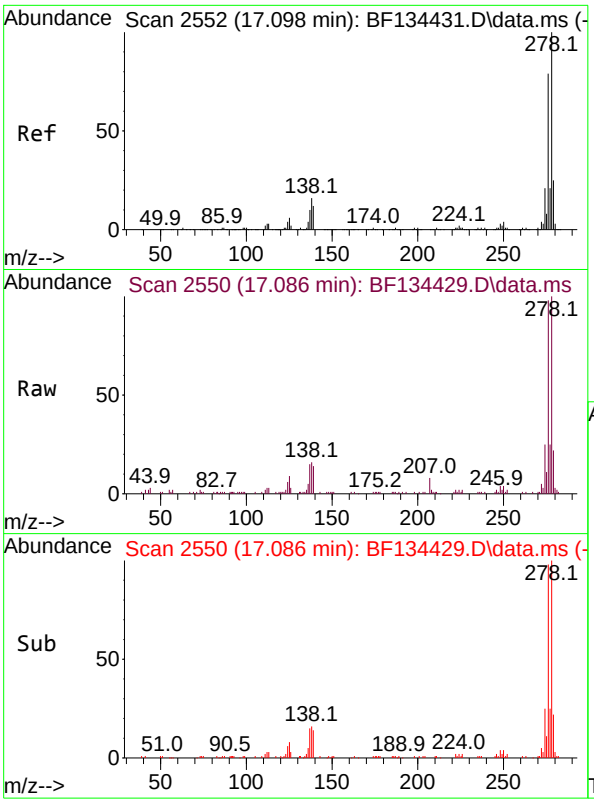


#90
Benzo(a)pyrene
Concen: 10.130 ng
RT: 15.468 min Scan# 2275
Delta R.T. -0.006 min
Lab File: BF134429.D
Acq: 24 Jul 2023 14:53

Tgt Ion:252 Resp: 86692

Ion	Ratio	Lower	Upper
252	100		
253	21.3	17.0	25.4
125	7.7	6.2	9.4

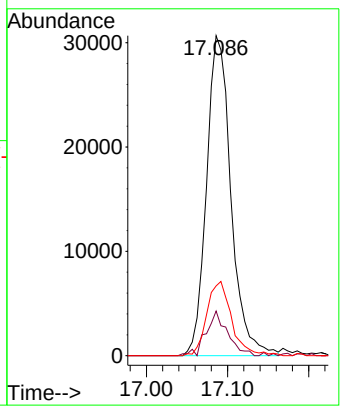




#91
Dibenzo(a,h)anthracene
Concen: 8.233 ng
RT: 17.086 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF134429.D
Acq: 24 Jul 2023 14:53

Tgt Ion:278 Resp: 6428

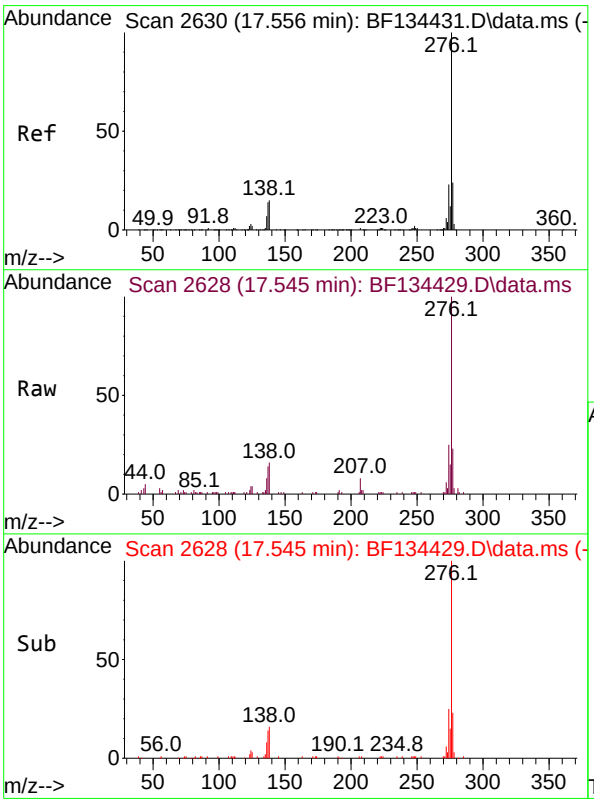
Ion	Ratio	Lower	Upper
278	100		
139	14.0	10.0	15.0
279	21.8	19.7	29.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

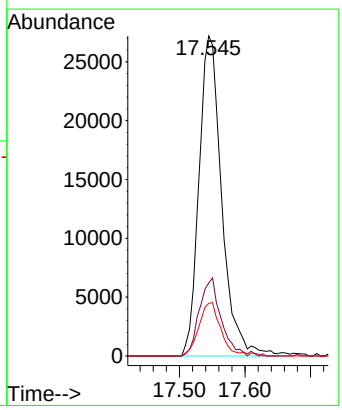
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023



#92
Benzo(g,h,i)perylene
Concen: 8.185 ng
RT: 17.545 min Scan# 2628
Delta R.T. -0.012 min
Lab File: BF134429.D
Acq: 24 Jul 2023 14:53

Tgt Ion:276 Resp: 65626

Ion	Ratio	Lower	Upper
276	100		
277	22.8	19.0	28.6
138	16.5	12.2	18.2



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF072423\
Data File : BF134430.D
Acq On : 24 Jul 2023 15:28
Operator : CG\JU
Sample : SSTDICC020
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 25 01:35:00 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF072423.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 25 01:30:14 2023
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.833	152	48428	20.000	ng		0.00
21) Naphthalene-d8	8.116	136	179271	20.000	ng		0.00
39) Acenaphthene-d10	9.874	164	88329	20.000	ng		0.00
64) Phenanthrene-d10	11.368	188	178575	20.000	ng		0.00
76) Chrysene-d12	14.033	240	148098	20.000	ng		0.00
86) Perylene-d12	15.533	264	130938	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.463	112	126947	43.310	ng		0.00
7) Phenol-d6	6.475	99	156440	43.562	ng		0.00
23) Nitrobenzene-d5	7.398	82	145831	41.157	ng		0.00
42) 2,4,6-Tribromophenol	10.669	330	53061	42.280	ng		0.00
45) 2-Fluorobiphenyl	9.186	172	283403	42.121	ng		0.00
79) Terphenyl-d14	12.962	244	345437	40.717	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.593	88	25930	20.856	ng		96
3) Pyridine	3.387	79	58351m	20.944	ng		
4) n-Nitrosodimethylamine	3.334	42	35750	21.676	ng		98
6) Aniline	6.498	93	91505	21.619	ng		94
8) 2-Chlorophenol	6.622	128	63751	21.469	ng		97
9) Benzaldehyde	6.392	77	43343	22.537	ng		97
10) Phenol	6.486	94	80543	21.556	ng		94
11) bis(2-Chloroethyl)ether	6.575	93	52852	20.262	ng		94
12) 1,3-Dichlorobenzene	6.775	146	69312	21.706	ng		95
13) 1,4-Dichlorobenzene	6.851	146	70225	21.370	ng		99
14) 1,2-Dichlorobenzene	7.004	146	66777	21.633	ng		97
15) Benzyl Alcohol	6.981	79	60133	21.901	ng		98
16) 2,2'-oxybis(1-Chloropr...	7.110	45	80707	21.010	ng		99
17) 2-Methylphenol	7.092	107	56119	21.191	ng		99
18) Hexachloroethane	7.339	117	27177	21.527	ng		98
19) n-Nitroso-di-n-propyla...	7.239	70	47451	21.225	ng		98
20) 3+4-Methylphenols	7.245	107	73029	21.538	ng		92
22) Acetophenone	7.245	105	92799	20.814	ng	#	91
24) Nitrobenzene	7.416	77	72190	20.486	ng		98
25) Isophorone	7.651	82	120857	20.466	ng		97
26) 2-Nitrophenol	7.733	139	34025	20.993	ng		95
27) 2,4-Dimethylphenol	7.769	122	53380	20.870	ng		95
28) bis(2-Chloroethoxy)met...	7.863	93	68024	20.695	ng		98
29) 2,4-Dichlorophenol	7.975	162	52169	20.404	ng		97
30) 1,2,4-Trichlorobenzene	8.057	180	55919	20.275	ng		95
31) Naphthalene	8.133	128	184294	20.656	ng		99
32) Benzoic acid	7.869	122	35403m	20.961	ng		
33) 4-Chloroaniline	8.186	127	77184	20.929	ng		95
34) Hexachlorobutadiene	8.245	225	39060	21.141	ng		98
35) Caprolactam	8.545	113	15493	19.855	ng		96
36) 4-Chloro-3-methylphenol	8.669	107	59295	20.099	ng		98
37) 2-Methylnaphthalene	8.827	142	128273	20.692	ng		98
38) 1-Methylnaphthalene	8.927	142	120732	20.993	ng		93
40) 1,2,4,5-Tetrachloroben...	8.992	216	57745	20.629	ng		100
41) Hexachlorocyclopentadiene	8.975	237	9782	19.775	ng		90
43) 2,4,6-Trichlorophenol	9.110	196	37069	20.643	ng		94

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF072423\
Data File : BF134430.D
Acq On : 24 Jul 2023 15:28
Operator : CG\JU
Sample : SSTDICC020
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 25 01:35:00 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF072423.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 25 01:30:14 2023
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.157	196	44452	21.247	ng		98
46) 1,1'-Biphenyl	9.292	154	153247	21.050	ng		99
47) 2-Chloronaphthalene	9.316	162	111139	20.708	ng		97
48) 2-Nitroaniline	9.416	65	38955	20.154	ng		93
49) Acenaphthylene	9.733	152	190027	20.958	ng		98
50) Dimethylphthalate	9.592	163	136120	20.789	ng		99
51) 2,6-Dinitrotoluene	9.657	165	29294	20.389	ng		99
52) Acenaphthene	9.904	154	111676	20.850	ng		99
53) 3-Nitroaniline	9.833	138	35471	21.533	ng		99
54) 2,4-Dinitrophenol	9.951	184	10760	19.672	ng		96
55) Dibenzofuran	10.080	168	176383	21.396	ng		96
56) 4-Nitrophenol	10.010	139	16660	18.965	ng		87
57) 2,4-Dinitrotoluene	10.069	165	39793	20.621	ng	#	93
58) Fluorene	10.421	166	138096	20.765	ng		98
59) 2,3,4,6-Tetrachlorophenol	10.198	232	31402m	19.462	ng		
60) Diethylphthalate	10.292	149	139654	20.600	ng		98
61) 4-Chlorophenyl-phenyle...	10.416	204	67610	21.282	ng		97
62) 4-Nitroaniline	10.445	138	35220	20.847	ng		91
63) Azobenzene	10.574	77	127572	20.444	ng		97
65) 4,6-Dinitro-2-methylph...	10.480	198	20249	19.768	ng		98
66) n-Nitrosodiphenylamine	10.533	169	118238	20.811	ng		97
67) 4-Bromophenyl-phenylether	10.904	248	40966	20.938	ng	#	90
68) Hexachlorobenzene	10.974	284	46051	20.902	ng		93
69) Atrazine	11.063	200	33413	21.094	ng		92
70) Pentachlorophenol	11.174	266	17137	18.534	ng		93
71) Phenanthrene	11.392	178	196683	21.080	ng		99
72) Anthracene	11.445	178	199792	20.747	ng		99
73) Carbazole	11.604	167	188724	20.812	ng		100
74) Di-n-butylphthalate	11.927	149	215165	20.670	ng		99
75) Fluoranthene	12.586	202	224371	20.634	ng		99
77) Benzidine	12.715	184	64456	20.383	ng		99
78) Pyrene	12.821	202	237451	20.165	ng		98
80) Butylbenzylphthalate	13.439	149	95741	20.297	ng		97
81) Benzo(a)anthracene	14.021	228	214727	20.782	ng		97
82) 3,3'-Dichlorobenzidine	13.980	252	71739	21.921	ng		96
83) Chrysene	14.057	228	211457	21.396	ng		98
84) Bis(2-ethylhexyl)phtha...	14.004	149	118543	20.686	ng		98
85) Di-n-octyl phthalate	14.621	149	160412	20.143	ng		100
87) Indeno(1,2,3-cd)pyrene	17.080	276	160054	18.710	ng		99
88) Benzo(b)fluoranthene	15.092	252	171812	20.974	ng		99
89) Benzo(k)fluoranthene	15.121	252	173963m	21.589	ng		
90) Benzo(a)pyrene	15.468	252	156739	20.701	ng		99
91) Dibenzo(a,h)anthracene	17.092	278	129831	18.793	ng		97
92) Benzo(g,h,i)perylene	17.550	276	136765	19.281	ng		99

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

ICAL Form

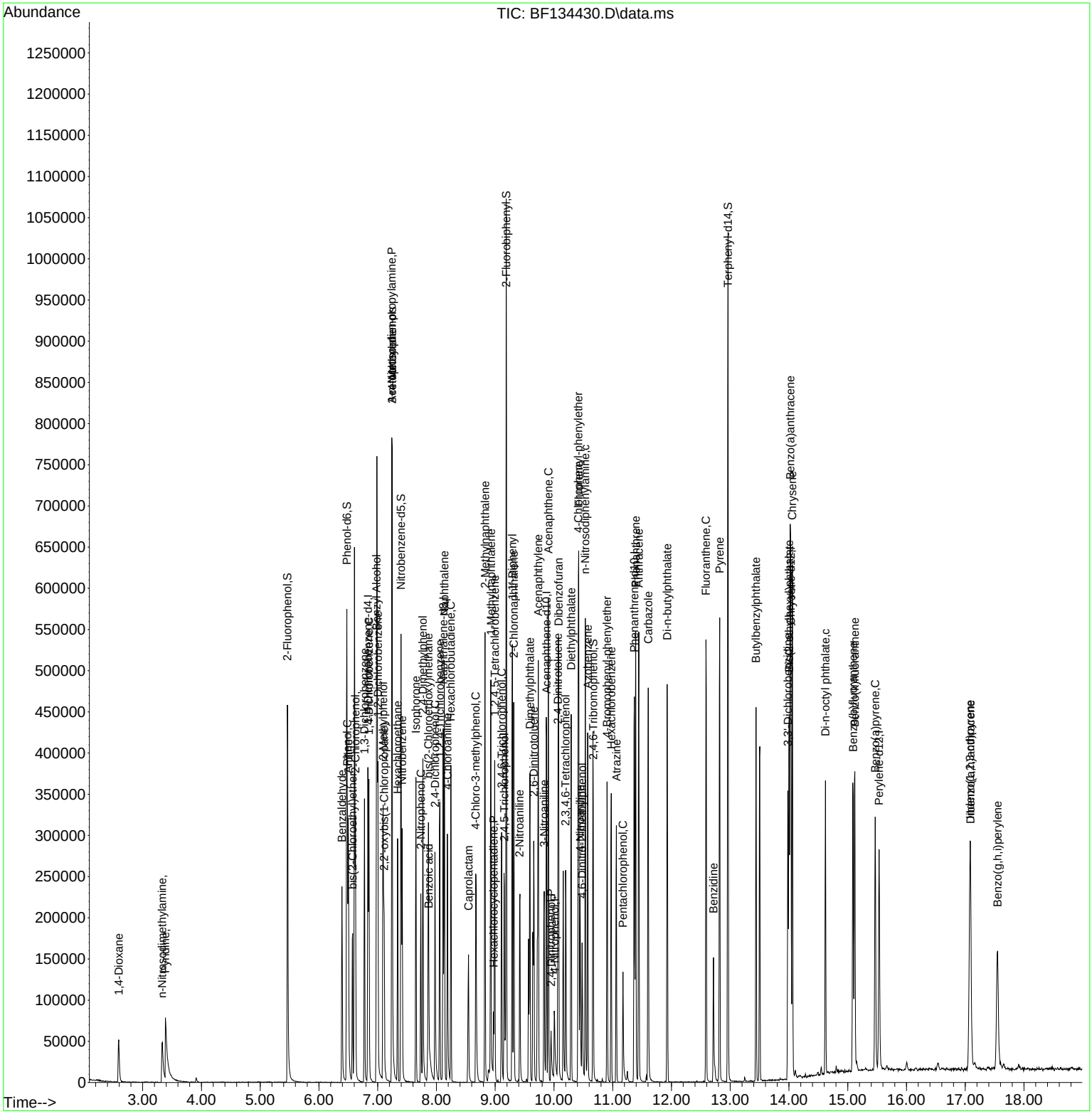
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF072423\
Data File : BF134430.D
Acq On : 24 Jul 2023 15:28
Operator : CG\JU
Sample : SSTDICC020
Misc :
ALS Vial : 6 Sample Multiplier: 1

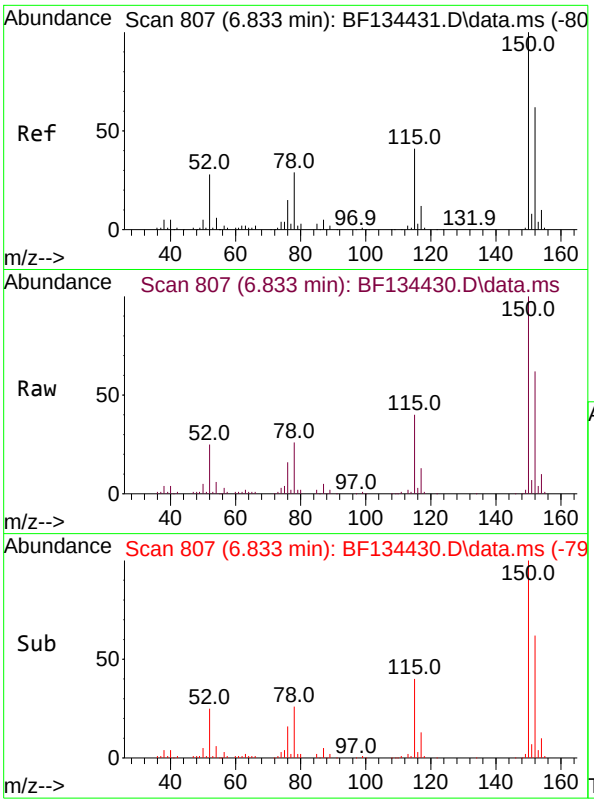
Quant Time: Jul 25 01:35:00 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF072423.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 25 01:30:14 2023
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

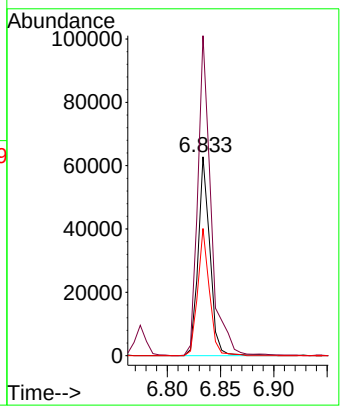




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.833 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF134430.D
Acq: 24 Jul 2023 15:28

Tgt Ion:152 Resp: 4842

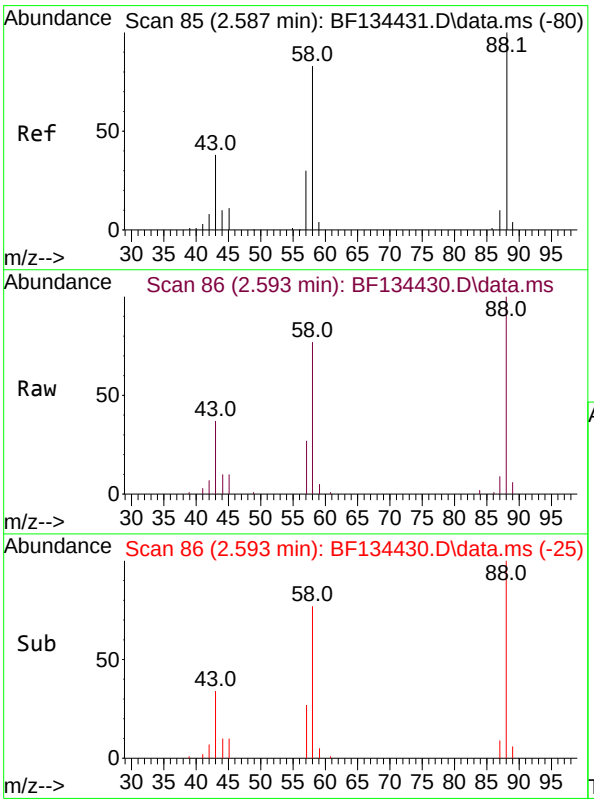
Ion	Ratio	Lower	Upper
152	100		
150	160.9	128.3	192.5
115	63.9	52.4	78.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

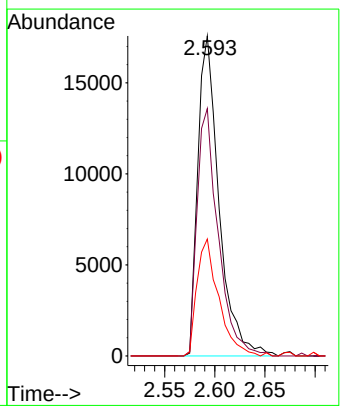
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

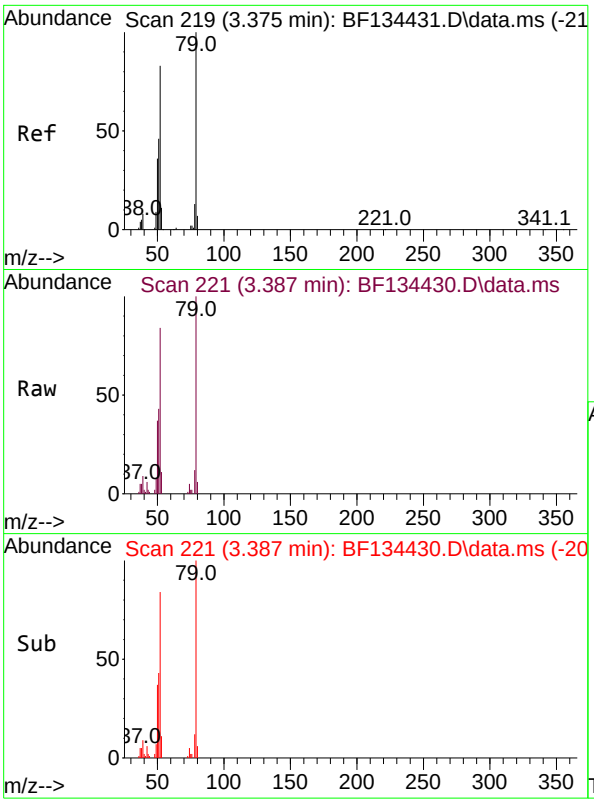


#2
1,4-Dioxane
Concen: 20.856 ng
RT: 2.593 min Scan# 86
Delta R.T. 0.006 min
Lab File: BF134430.D
Acq: 24 Jul 2023 15:28

Tgt Ion: 88 Resp: 25930

Ion	Ratio	Lower	Upper
88	100		
58	76.9	65.1	97.7
43	37.6	30.3	45.5

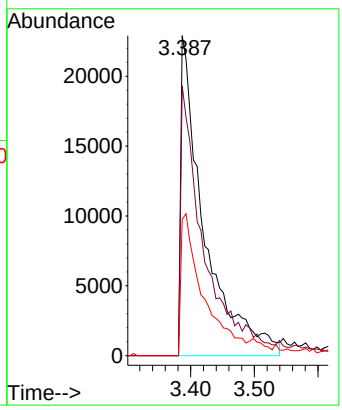




#3
Pyridine
Concen: 20.944 ng m
RT: 3.387 min Scan# 2
Delta R.T. 0.012 min
Lab File: BF134430.D
Acq: 24 Jul 2023 15:28

Tgt Ion: 79 Resp: 5835

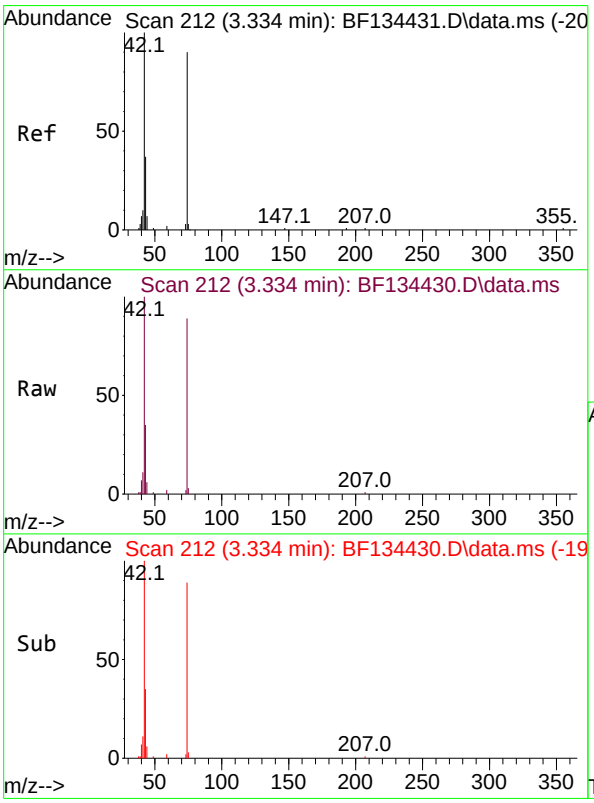
Ion	Ratio	Lower	Upper
79	100		
52	84.4	66.6	100.0
51	42.6	36.5	54.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

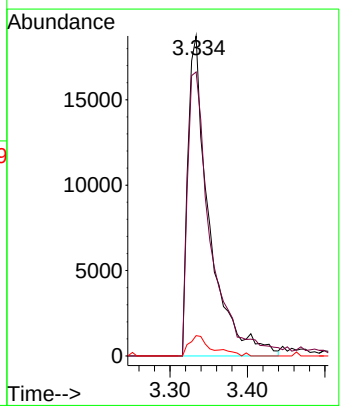
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

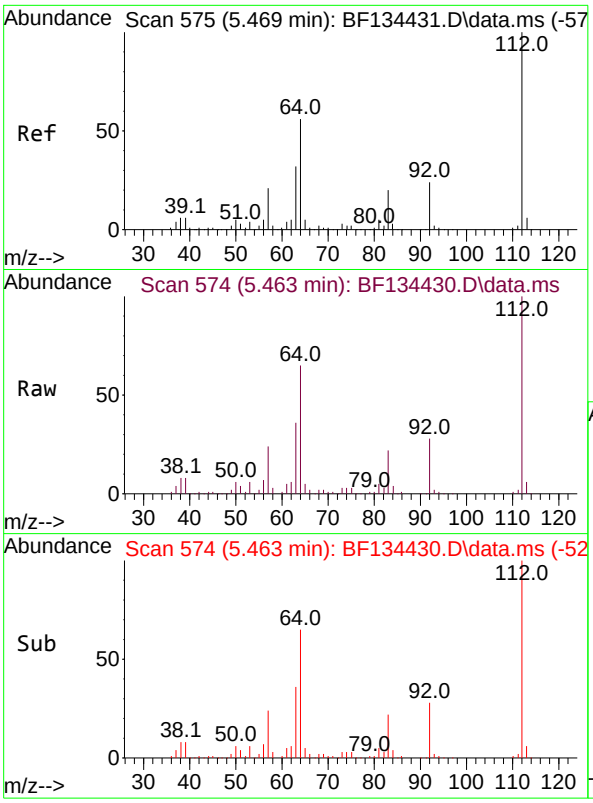


#4
n-Nitrosodimethylamine
Concen: 21.676 ng
RT: 3.334 min Scan# 212
Delta R.T. -0.000 min
Lab File: BF134430.D
Acq: 24 Jul 2023 15:28

Tgt Ion: 42 Resp: 35750

Ion	Ratio	Lower	Upper
42	100		
74	88.7	72.2	108.4
44	6.4	5.4	8.0

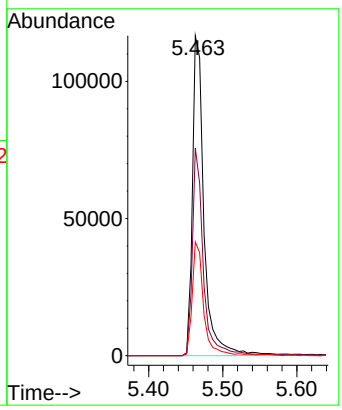




#5
2-Fluorophenol
Concen: 43.310 ng
RT: 5.463 min Scan# 5
Delta R.T. -0.006 min
Lab File: BF134430.D
Acq: 24 Jul 2023 15:28

Tgt Ion:112 Resp: 12694

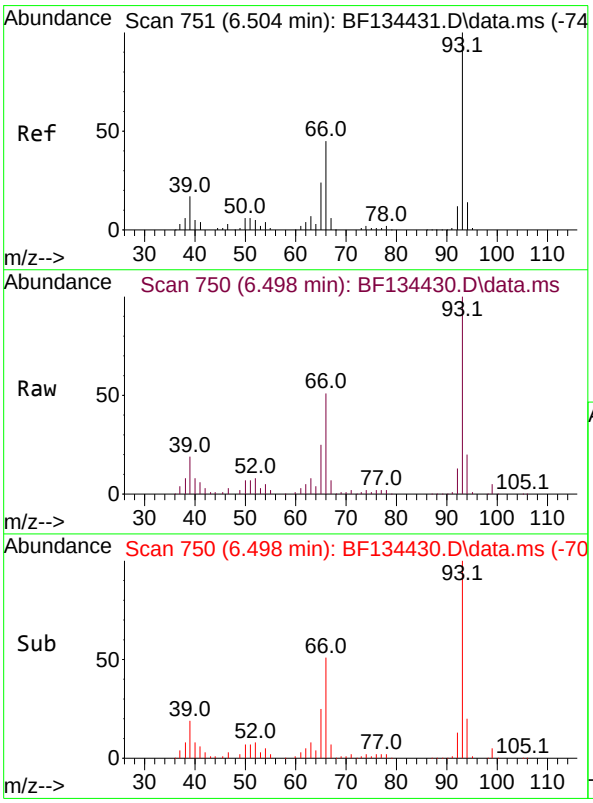
Ion	Ratio	Lower	Upper
112	100		
64	64.9	44.9	67.3
63	35.5	25.4	38.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

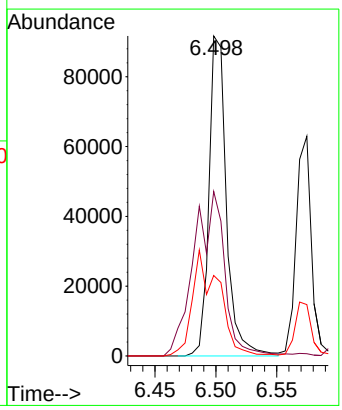
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

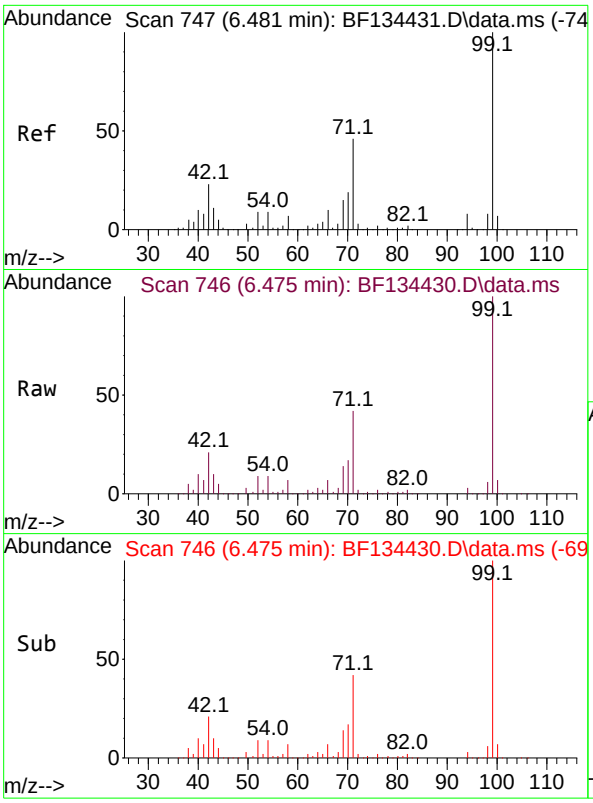


#6
Aniline
Concen: 21.619 ng
RT: 6.498 min Scan# 750
Delta R.T. -0.006 min
Lab File: BF134430.D
Acq: 24 Jul 2023 15:28

Tgt Ion: 93 Resp: 91505

Ion	Ratio	Lower	Upper
93	100		
66	51.4	36.8	55.2
65	25.1	19.4	29.0

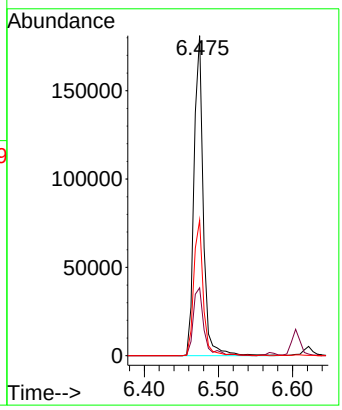




#7
Phenol-d6
Concen: 43.562 ng
RT: 6.475 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF134430.D
Acq: 24 Jul 2023 15:28

Tgt Ion: 99 Resp: 15644

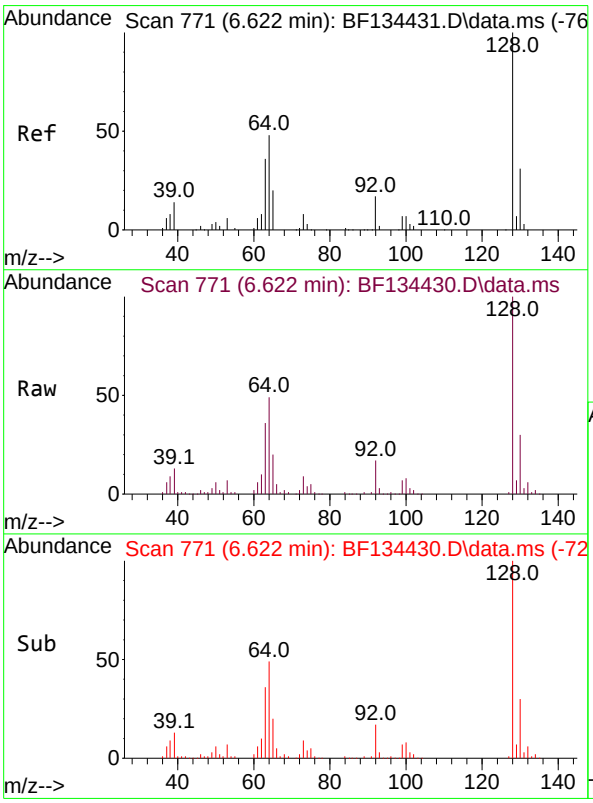
Ion	Ratio	Lower	Upper
99	100		
42	21.2	18.7	28.1
71	42.3	36.4	54.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

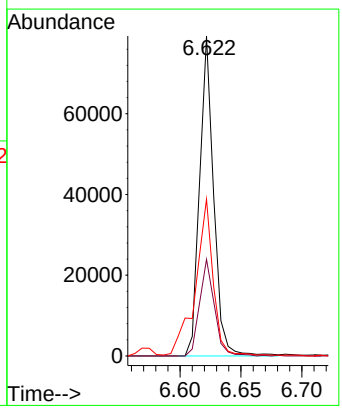
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

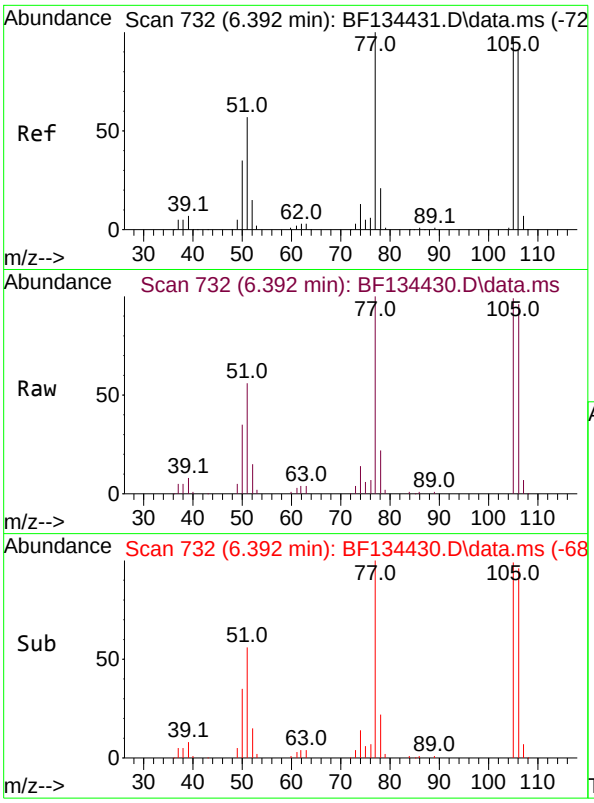


#8
2-Chlorophenol
Concen: 21.469 ng
RT: 6.622 min Scan# 771
Delta R.T. -0.000 min
Lab File: BF134430.D
Acq: 24 Jul 2023 15:28

Tgt Ion:128 Resp: 63751

Ion	Ratio	Lower	Upper
128	100		
130	30.2	11.1	51.1
64	49.0	31.9	71.9

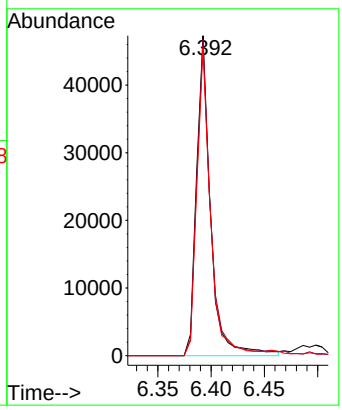




#9
Benzaldehyde
Concen: 22.537 ng
RT: 6.392 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF134430.D
Acq: 24 Jul 2023 15:28

Tgt Ion: 77 Resp: 4334

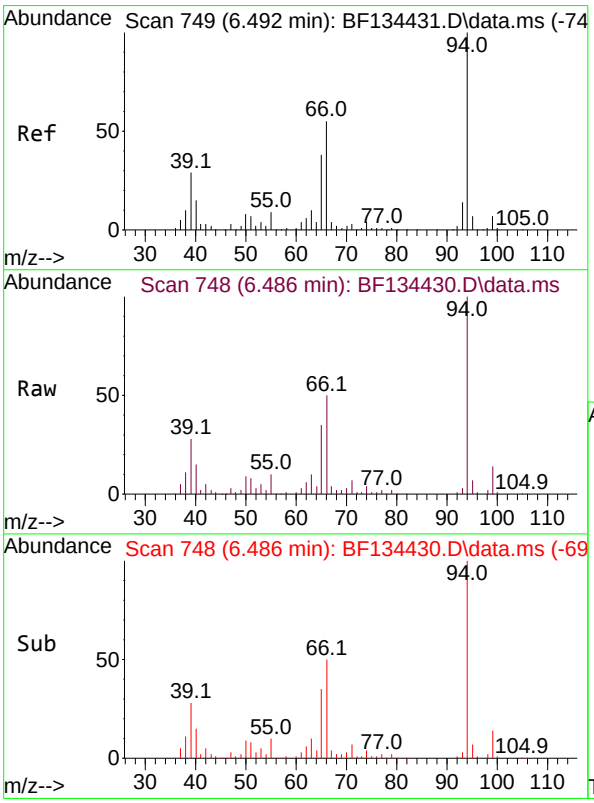
Ion	Ratio	Lower	Upper
77	100		
105	98.8	77.1	117.1
106	96.1	71.4	111.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

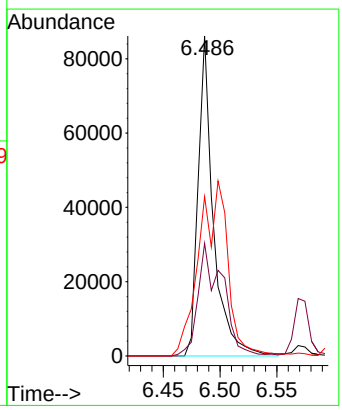
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

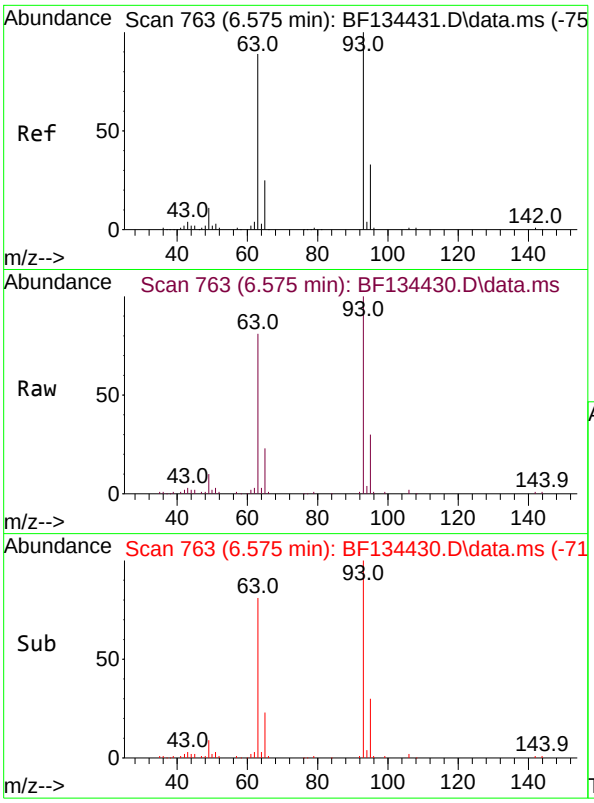


#10
Phenol
Concen: 21.556 ng
RT: 6.486 min Scan# 748
Delta R.T. -0.006 min
Lab File: BF134430.D
Acq: 24 Jul 2023 15:28

Tgt Ion: 94 Resp: 80543

Ion	Ratio	Lower	Upper
94	100		
65	35.2	17.8	57.8
66	49.8	35.2	75.2

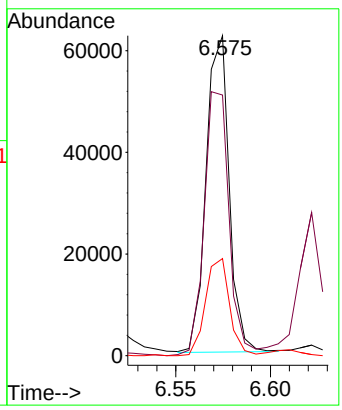




#11
bis(2-Chloroethyl)ether
Concen: 20.262 ng
RT: 6.575 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF134430.D
Acq: 24 Jul 2023 15:28

Tgt Ion: 93 Resp: 5285

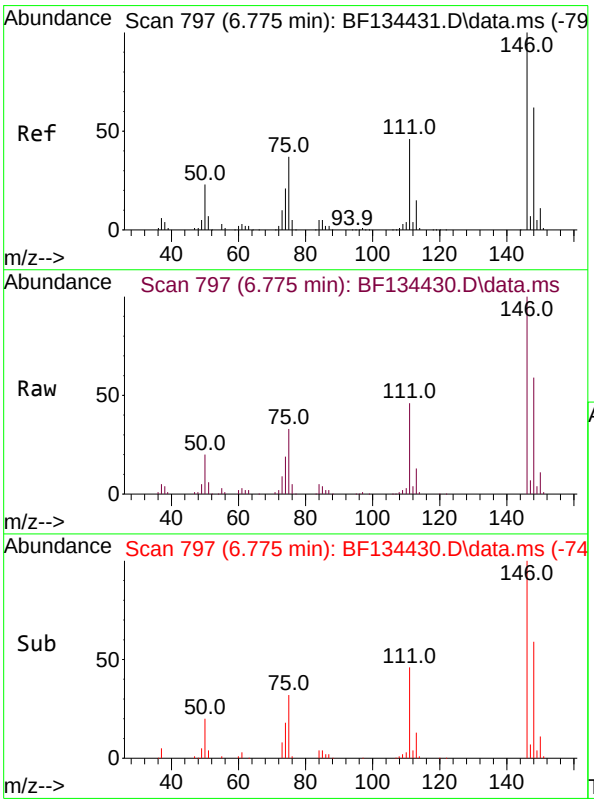
Ion	Ratio	Lower	Upper
93	100		
63	81.5	68.4	108.4
95	30.4	12.4	52.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

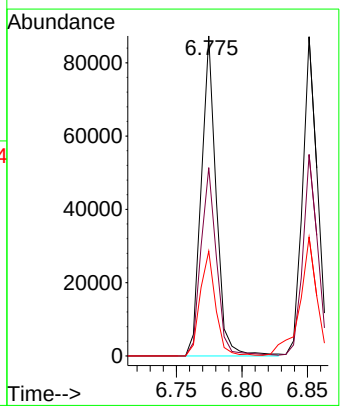
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

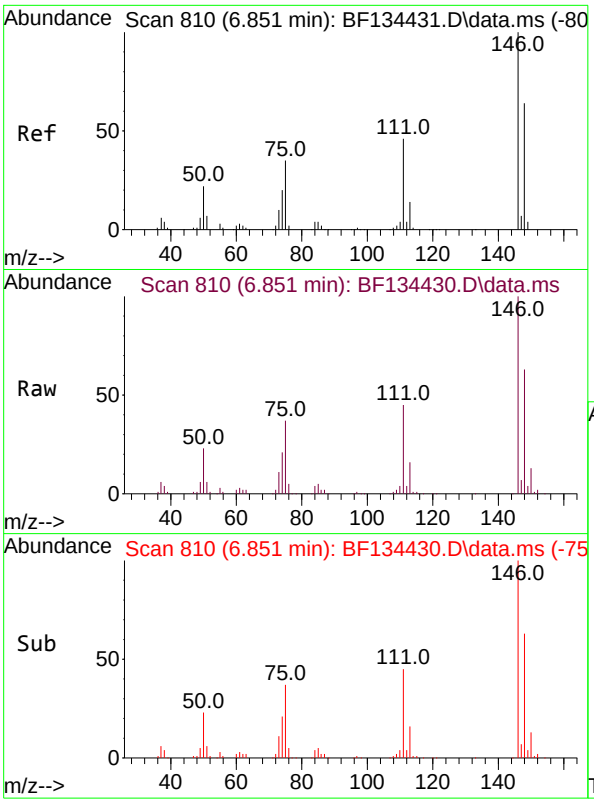


#12
1,3-Dichlorobenzene
Concen: 21.706 ng
RT: 6.775 min Scan# 797
Delta R.T. -0.000 min
Lab File: BF134430.D
Acq: 24 Jul 2023 15:28

Tgt Ion:146 Resp: 69312

Ion	Ratio	Lower	Upper
146	100		
148	58.9	49.7	74.5
75	32.8	29.5	44.3

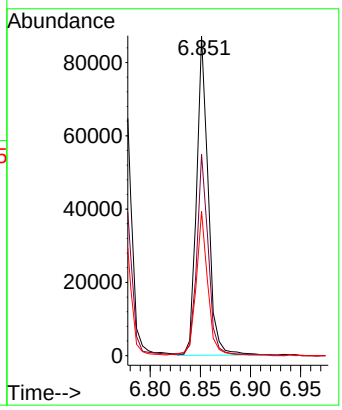




#13
1,4-Dichlorobenzene
Concen: 21.370 ng
RT: 6.851 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF134430.D
Acq: 24 Jul 2023 15:28

Tgt Ion:146 Resp: 7022

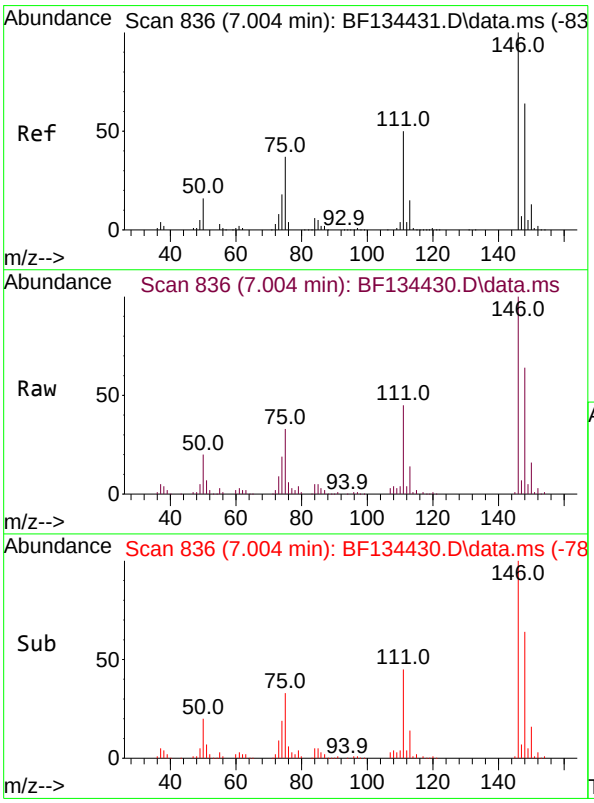
Ion	Ratio	Lower	Upper
146	100		
148	63.1	51.3	76.9
111	45.2	36.6	55.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

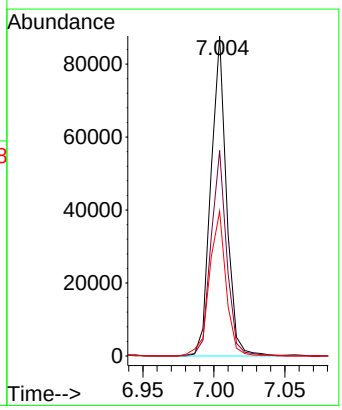
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

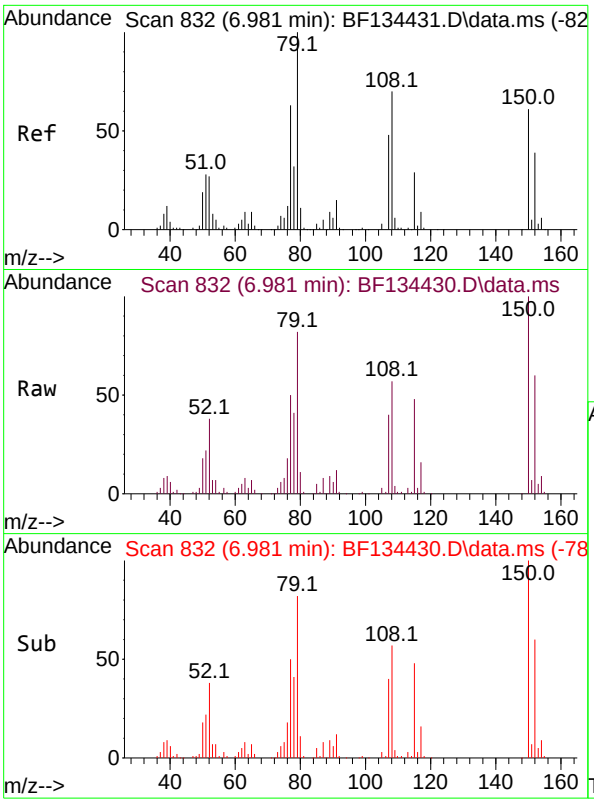


#14
1,2-Dichlorobenzene
Concen: 21.633 ng
RT: 7.004 min Scan# 836
Delta R.T. -0.000 min
Lab File: BF134430.D
Acq: 24 Jul 2023 15:28

Tgt Ion:146 Resp: 66777

Ion	Ratio	Lower	Upper
146	100		
148	64.2	51.2	76.8
111	45.2	39.9	59.9

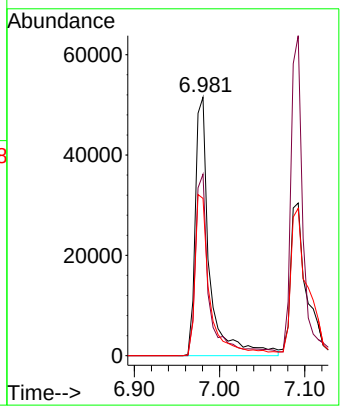




#15
Benzyl Alcohol
Concen: 21.901 ng
RT: 6.981 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF134430.D
Acq: 24 Jul 2023 15:28

Tgt Ion: 79 Resp: 6013

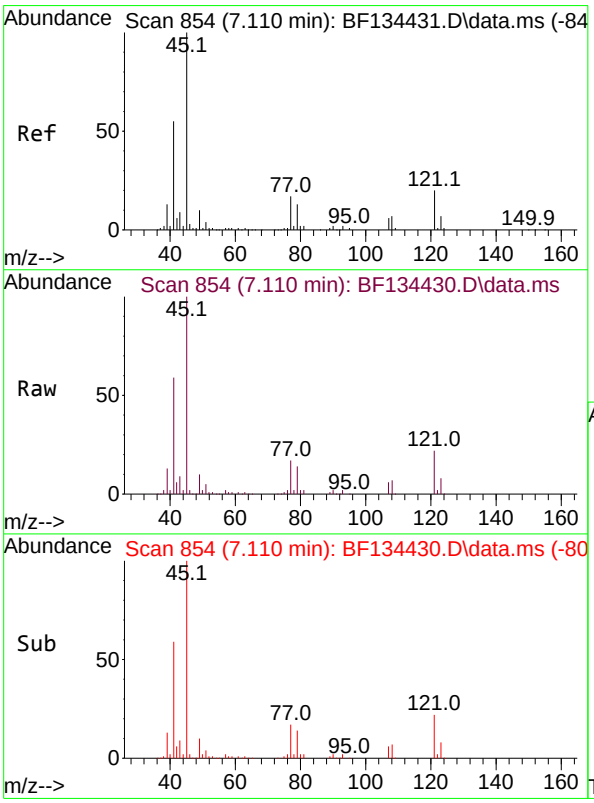
Ion	Ratio	Lower	Upper
79	100		
108	70.2	56.3	84.5
77	60.9	50.6	76.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

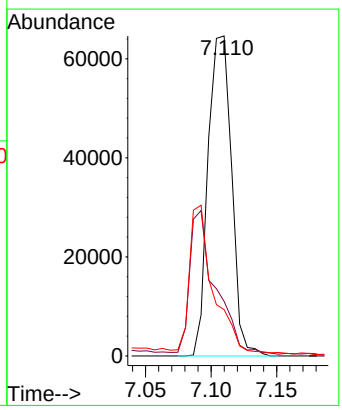
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

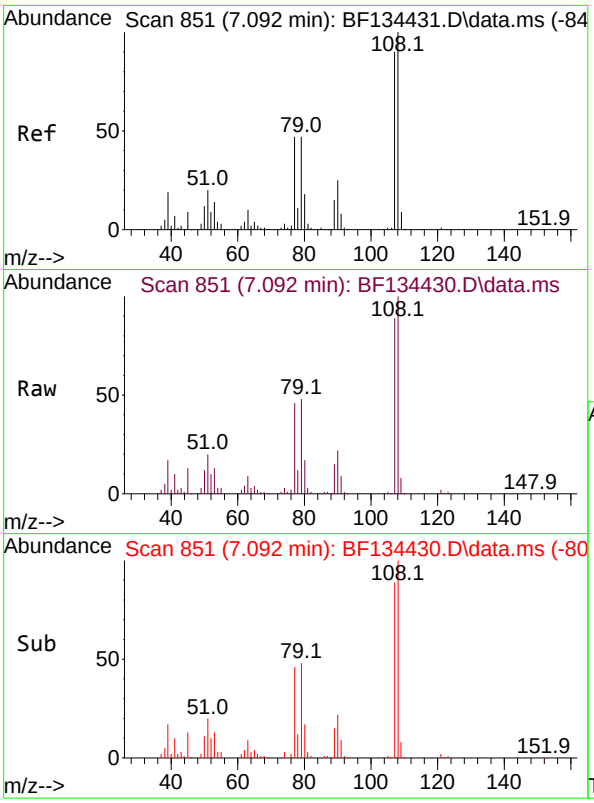


#16
2,2'-oxybis(1-Chloropropane)
Concen: 21.010 ng
RT: 7.110 min Scan# 854
Delta R.T. -0.000 min
Lab File: BF134430.D
Acq: 24 Jul 2023 15:28

Tgt Ion: 45 Resp: 80707

Ion	Ratio	Lower	Upper
45	100		
77	17.1	0.0	37.8
79	14.5	0.0	34.5

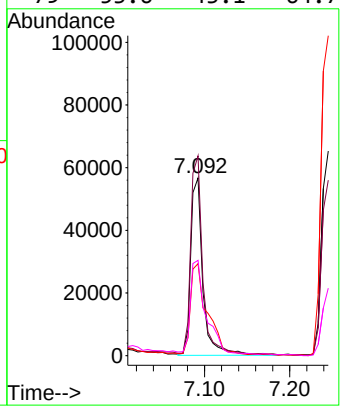




#17
2-Methylphenol
Concen: 21.191 ng
RT: 7.092 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF134430.D
Acq: 24 Jul 2023 15:28

Tgt Ion:107 Resp: 5611

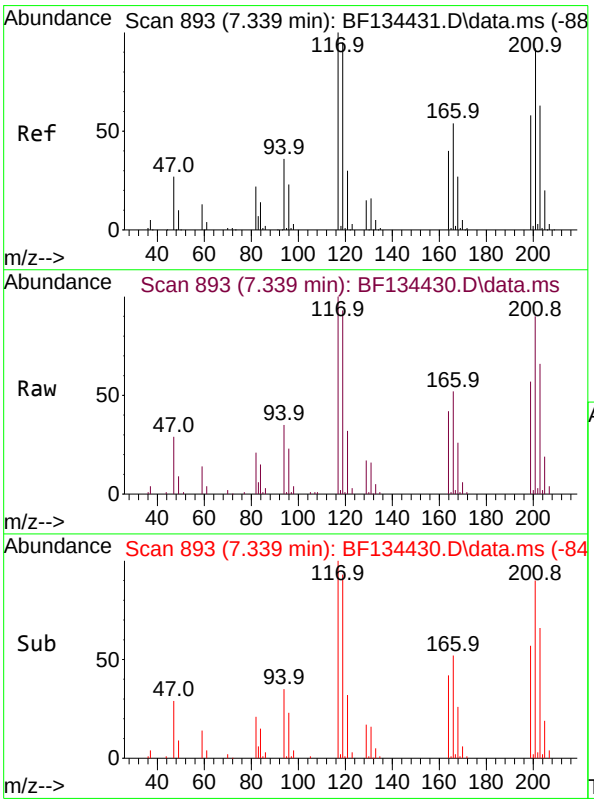
Ion	Ratio	Lower	Upper
107	100		
108	112.5	89.4	134.2
77	51.8	42.4	63.6
79	53.6	43.1	64.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

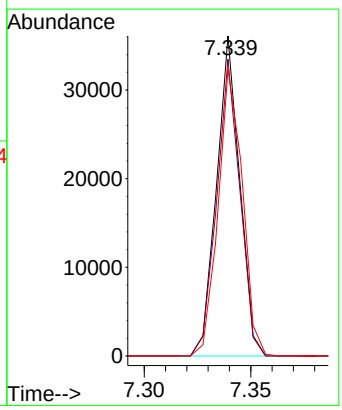
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

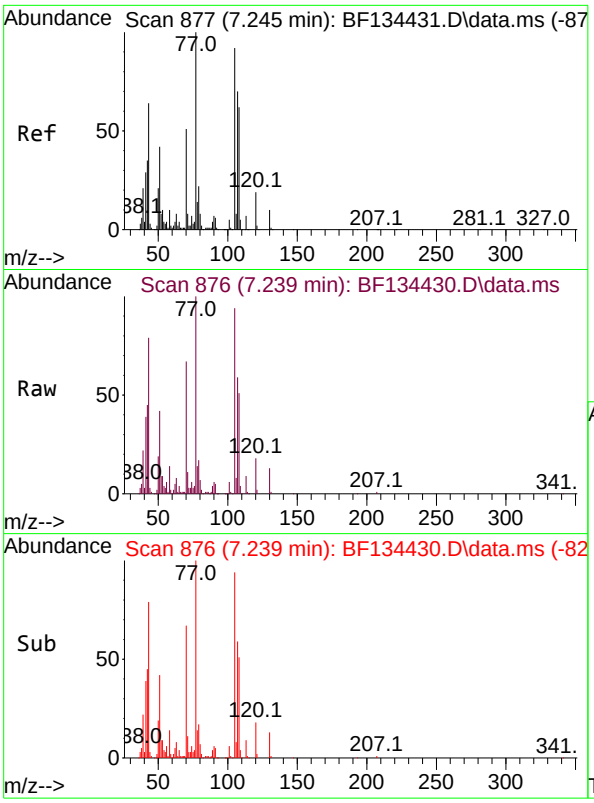


#18
Hexachloroethane
Concen: 21.527 ng
RT: 7.339 min Scan# 893
Delta R.T. -0.000 min
Lab File: BF134430.D
Acq: 24 Jul 2023 15:28

Tgt Ion:117 Resp: 27177

Ion	Ratio	Lower	Upper
117	100		
119	92.8	75.8	113.8
201	89.6	73.6	110.4

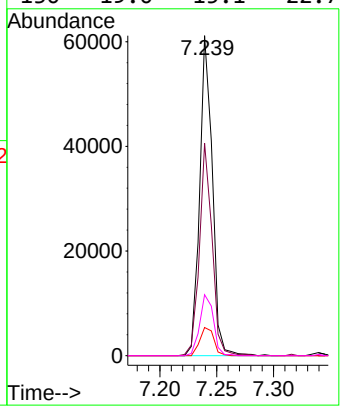




#19
n-Nitroso-di-n-propylamine
Concen: 21.225 ng
RT: 7.239 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF134430.D
Acq: 24 Jul 2023 15:28

Tgt Ion: 70 Resp: 4745

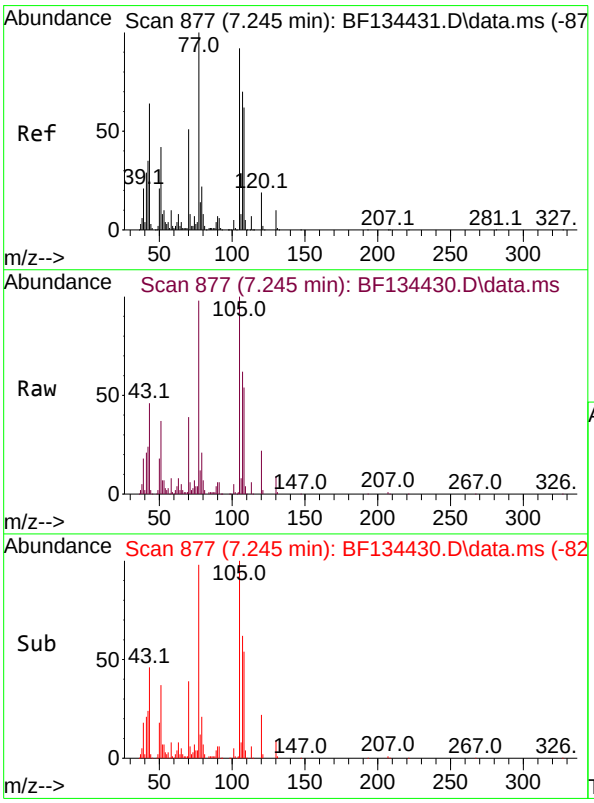
Ion	Ratio	Lower	Upper
70	100		
42	66.4	54.7	82.1
101	8.8	8.2	12.2
130	19.0	15.1	22.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

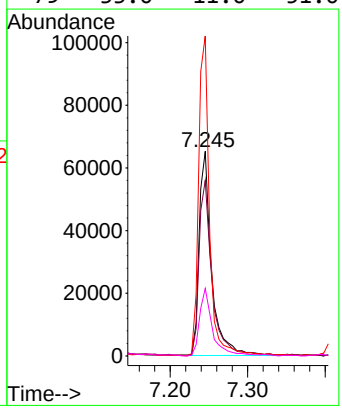
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

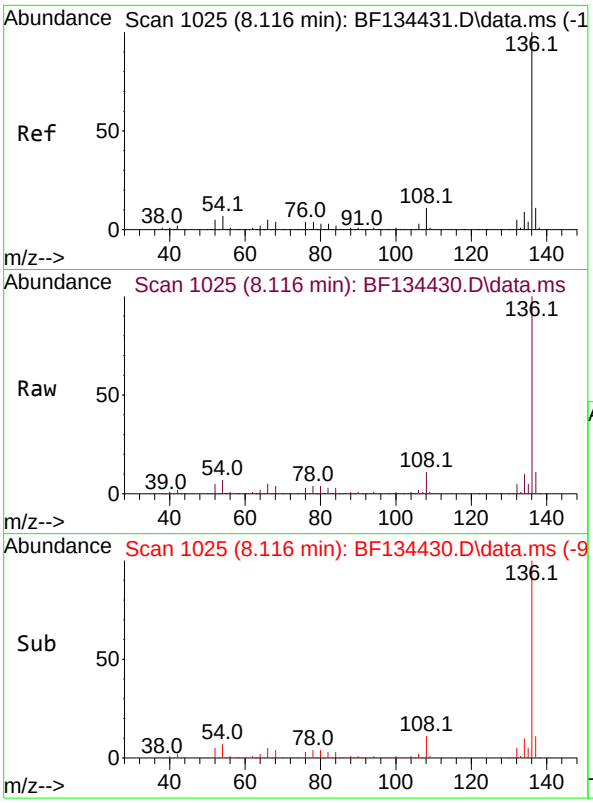


#20
3+4-Methylphenols
Concen: 21.538 ng
RT: 7.245 min Scan# 877
Delta R.T. -0.000 min
Lab File: BF134430.D
Acq: 24 Jul 2023 15:28

Tgt Ion:107 Resp: 73029

Ion	Ratio	Lower	Upper
107	100		
108	85.8	68.1	108.1
77	156.4	122.1	162.1
79	33.0	11.0	51.0

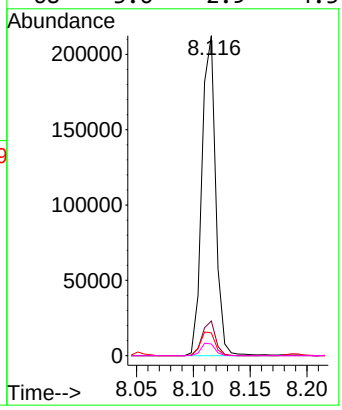




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.116 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF134430.D
Acq: 24 Jul 2023 15:28

Tgt Ion:136 Resp: 17927

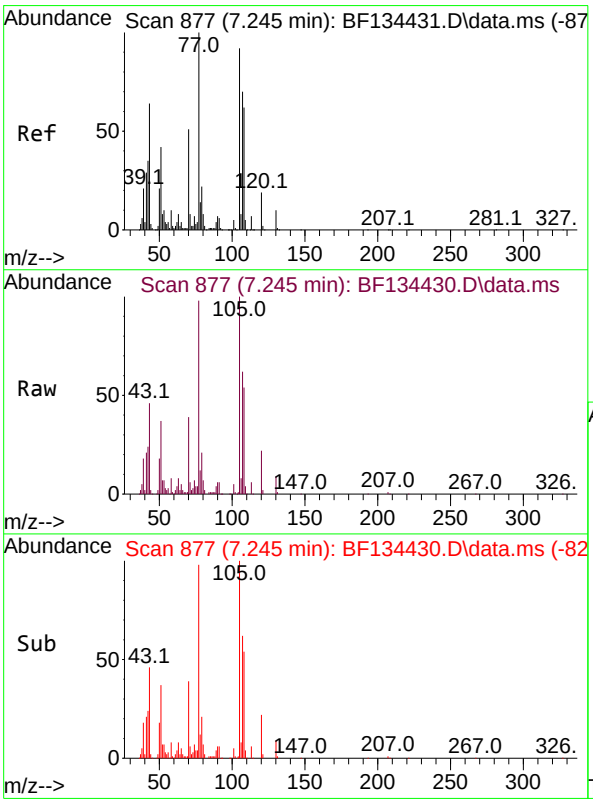
Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.4	12.6
54	7.2	5.2	7.8
68	3.6	2.9	4.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

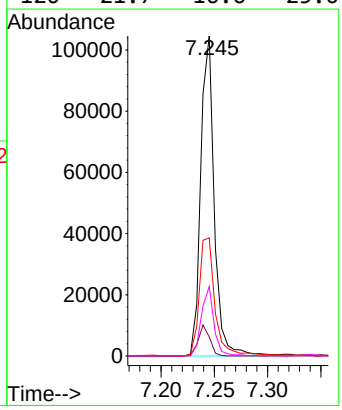
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

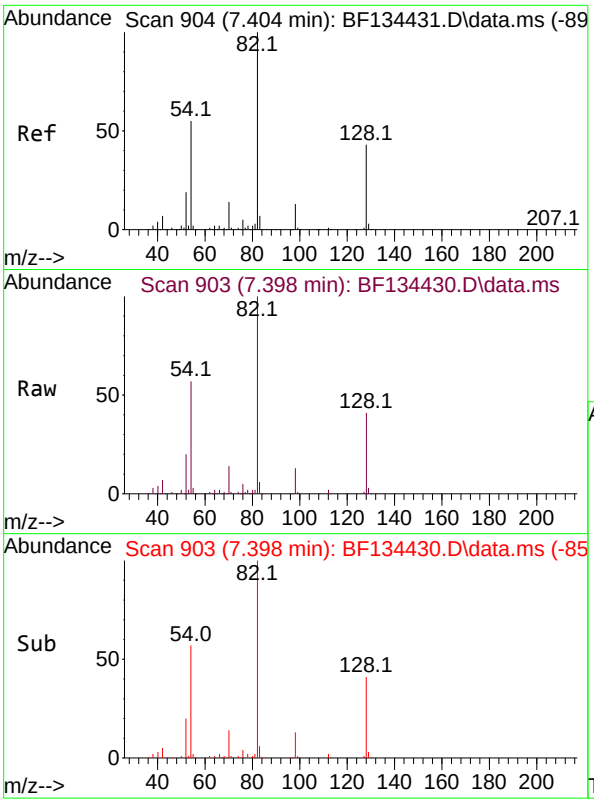


#22
Acetophenone
Concen: 20.814 ng
RT: 7.245 min Scan# 877
Delta R.T. -0.000 min
Lab File: BF134430.D
Acq: 24 Jul 2023 15:28

Tgt Ion:105 Resp: 92799

Ion	Ratio	Lower	Upper
105	100		
71	5.9	7.4	11.0#
51	36.9	36.4	54.6
120	21.7	16.6	25.0

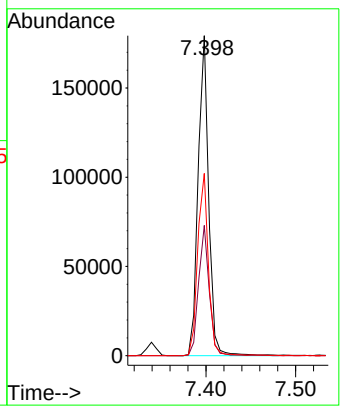




#23
Nitrobenzene-d5
Concen: 41.157 ng
RT: 7.398 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF134430.D
Acq: 24 Jul 2023 15:28

Tgt Ion: 82 Resp: 14583

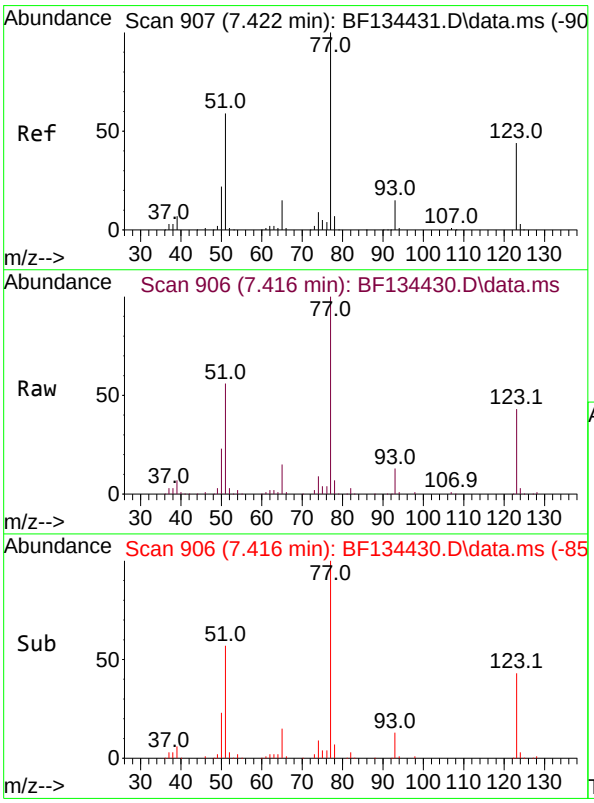
Ion	Ratio	Lower	Upper
82	100		
128	40.7	34.3	51.5
54	57.0	43.8	65.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

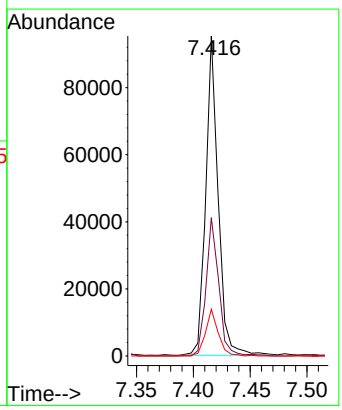
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

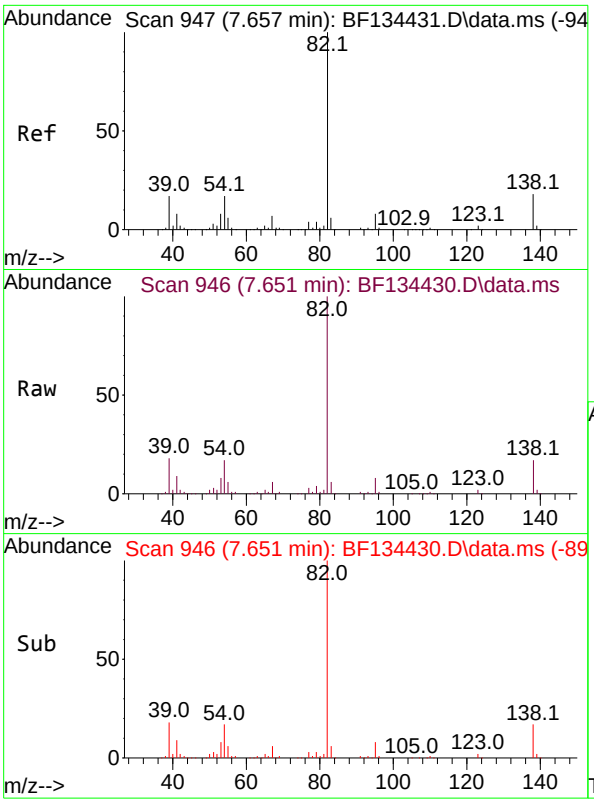


#24
Nitrobenzene
Concen: 20.486 ng
RT: 7.416 min Scan# 906
Delta R.T. -0.006 min
Lab File: BF134430.D
Acq: 24 Jul 2023 15:28

Tgt Ion: 77 Resp: 72190

Ion	Ratio	Lower	Upper
77	100		
123	43.2	35.5	53.3
65	14.6	11.9	17.9

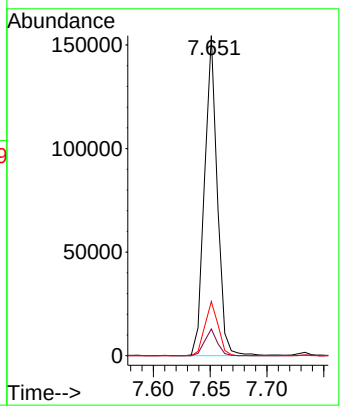




#25
Isophorone
Concen: 20.466 ng
RT: 7.651 min Scan# 94
Delta R.T. -0.006 min
Lab File: BF134430.D
Acq: 24 Jul 2023 15:28

Tgt Ion: 82 Resp: 12085

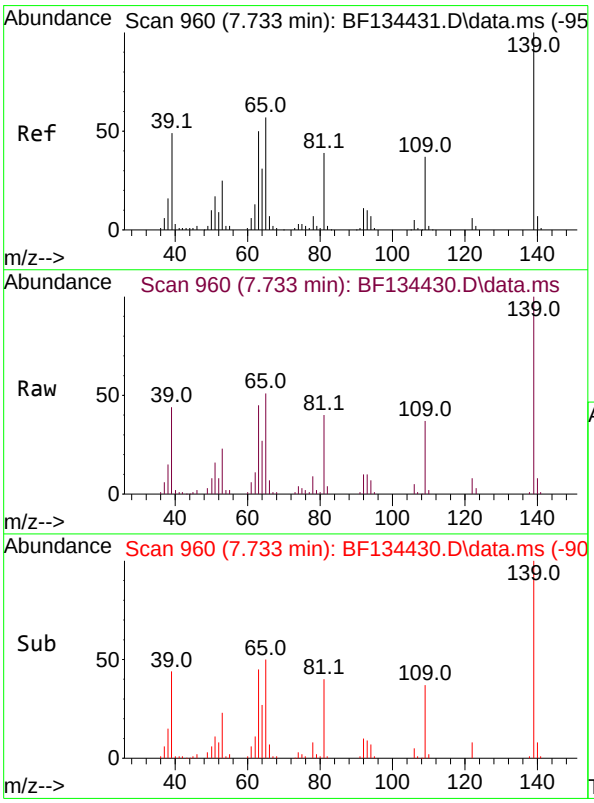
Ion	Ratio	Lower	Upper
82	100		
95	8.4	6.0	9.0
138	16.9	14.6	22.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

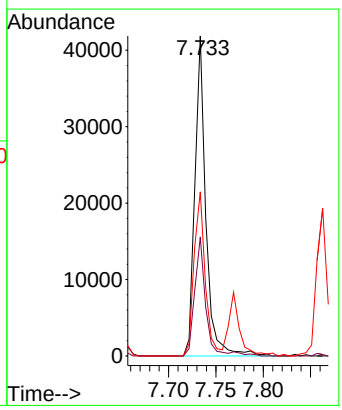
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

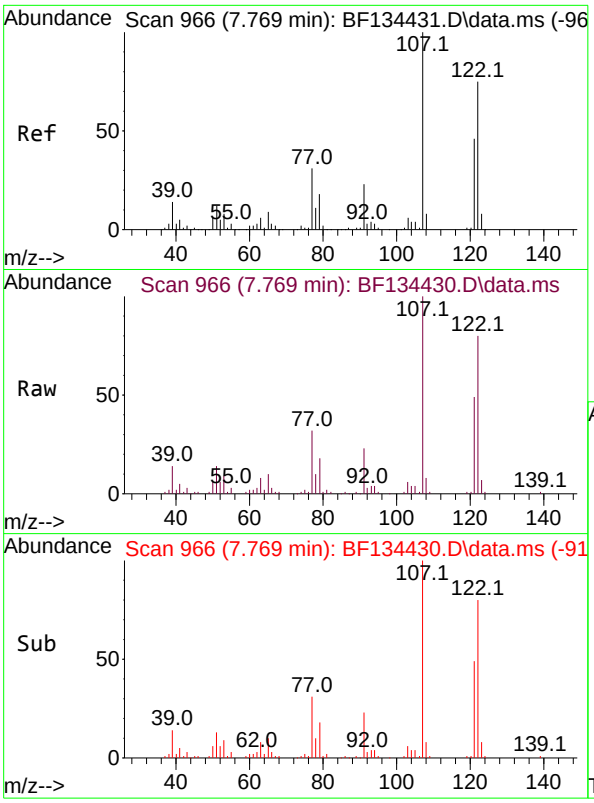


#26
2-Nitrophenol
Concen: 20.993 ng
RT: 7.733 min Scan# 960
Delta R.T. -0.000 min
Lab File: BF134430.D
Acq: 24 Jul 2023 15:28

Tgt Ion:139 Resp: 34025

Ion	Ratio	Lower	Upper
139	100		
109	37.2	29.8	44.6
65	51.3	45.4	68.2

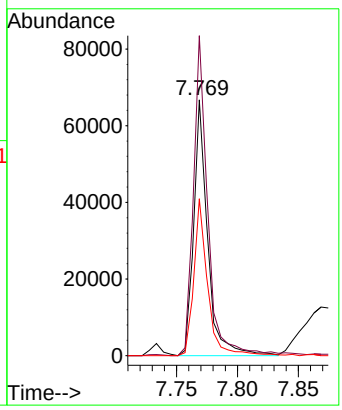




#27
2,4-Dimethylphenol
Concen: 20.870 ng
RT: 7.769 min Scan# 9
Delta R.T. -0.000 min
Lab File: BF134430.D
Acq: 24 Jul 2023 15:28

Tgt Ion:122 Resp: 5338

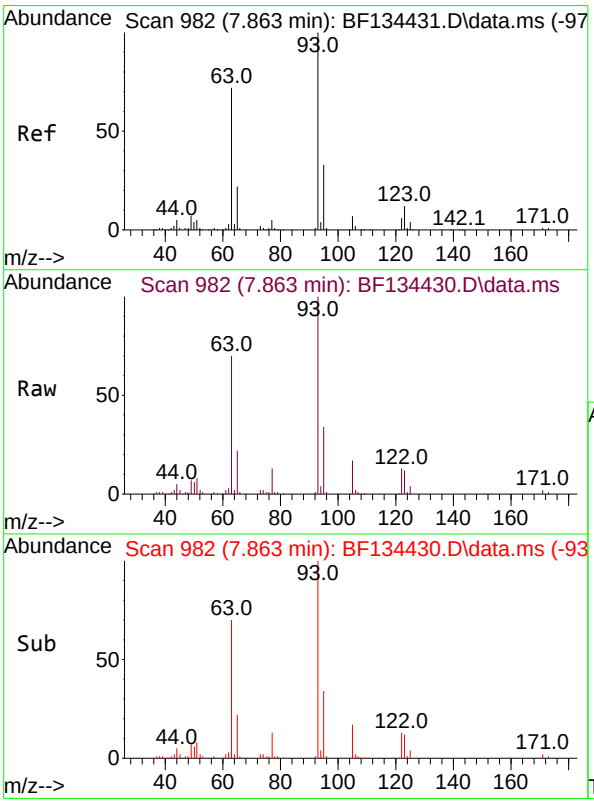
Ion	Ratio	Lower	Upper
122	100		
107	125.1	106.7	160.1
121	61.3	49.0	73.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

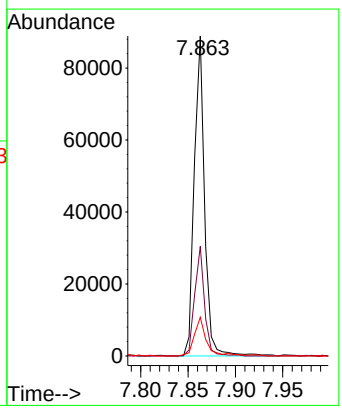
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

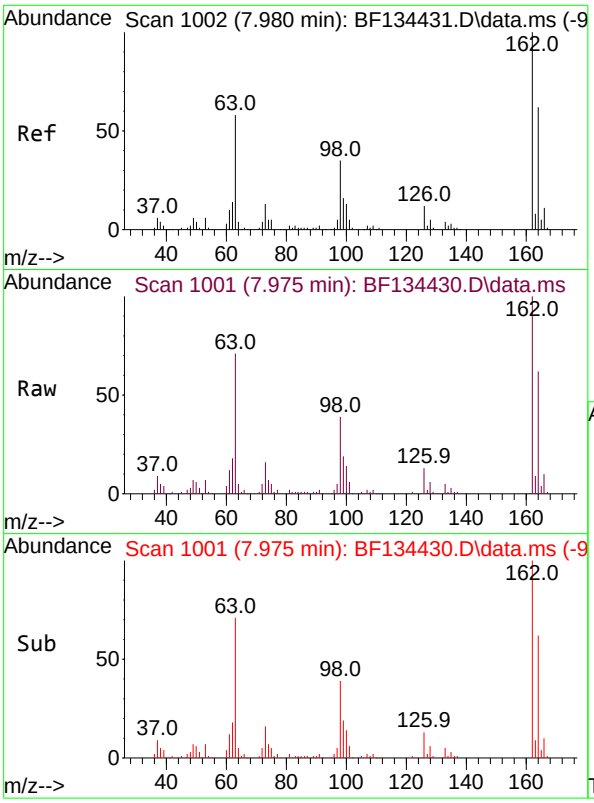


#28
bis(2-Chloroethoxy)methane
Concen: 20.695 ng
RT: 7.863 min Scan# 982
Delta R.T. -0.000 min
Lab File: BF134430.D
Acq: 24 Jul 2023 15:28

Tgt Ion: 93 Resp: 68024

Ion	Ratio	Lower	Upper
93	100		
95	34.3	26.5	39.7
123	12.1	9.6	14.4

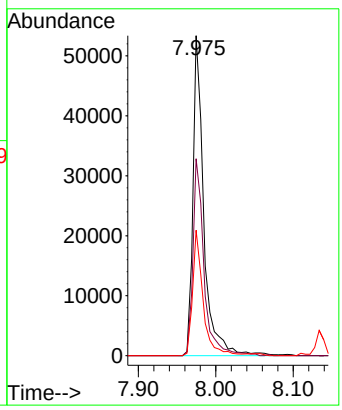




#29
2,4-Dichlorophenol
Concen: 20.404 ng
RT: 7.975 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF134430.D
Acq: 24 Jul 2023 15:28

Tgt Ion:162 Resp: 5216

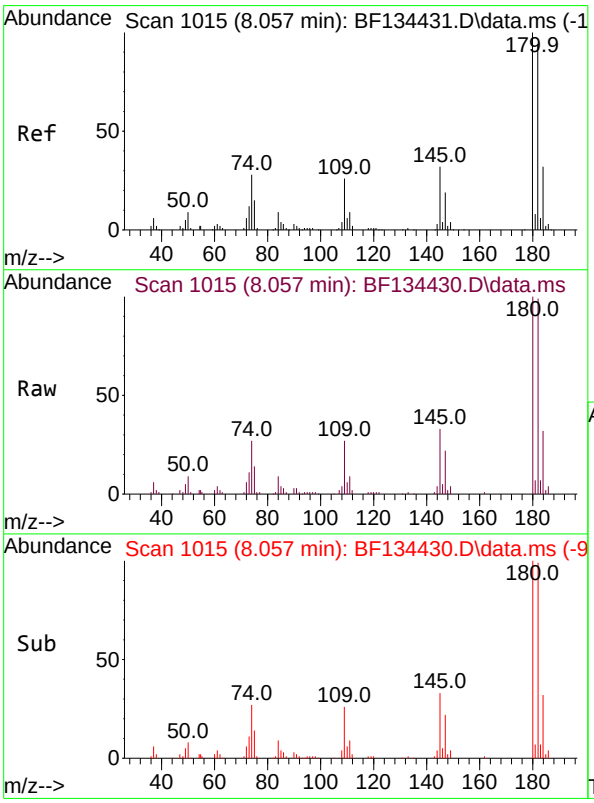
Ion	Ratio	Lower	Upper
162	100		
164	61.6	42.2	82.2
98	39.2	15.5	55.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

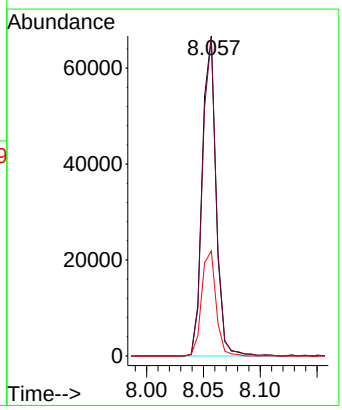
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

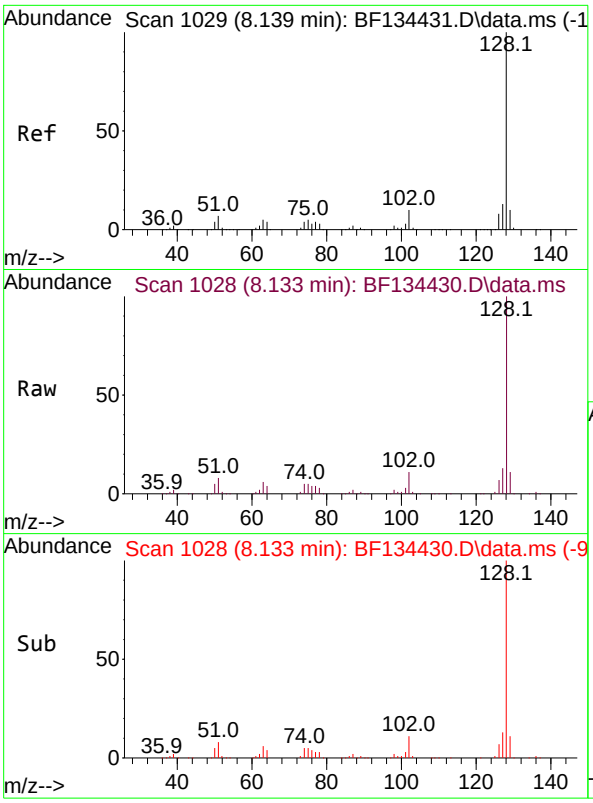


#30
1,2,4-Trichlorobenzene
Concen: 20.275 ng
RT: 8.057 min Scan# 1015
Delta R.T. -0.000 min
Lab File: BF134430.D
Acq: 24 Jul 2023 15:28

Tgt Ion:180 Resp: 55919

Ion	Ratio	Lower	Upper
180	100		
182	99.5	75.0	112.6
145	32.8	25.5	38.3

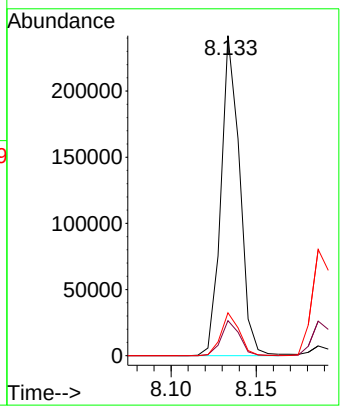




#31
Naphthalene
Concen: 20.656 ng
RT: 8.133 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF134430.D
Acq: 24 Jul 2023 15:28

Tgt Ion:128 Resp: 18429

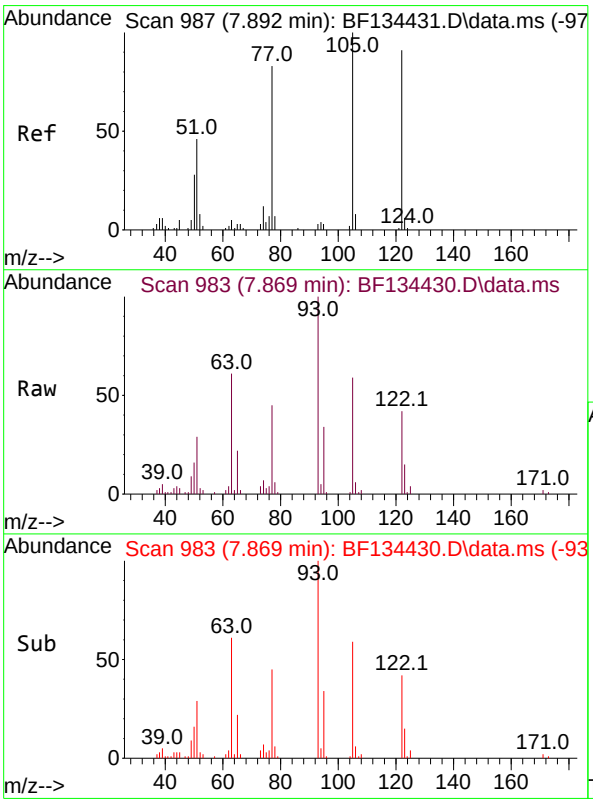
Ion	Ratio	Lower	Upper
128	100		
129	10.9	8.4	12.6
127	13.4	10.7	16.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

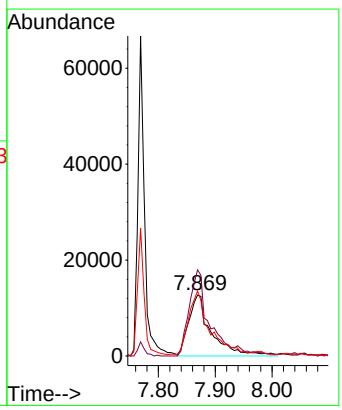
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

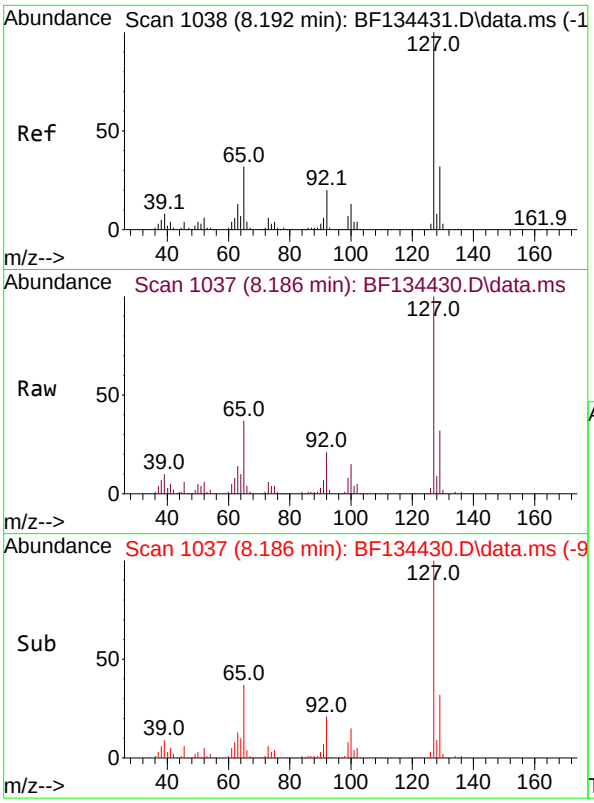


#32
Benzoic acid
Concen: 20.961 ng m
RT: 7.869 min Scan# 983
Delta R.T. -0.024 min
Lab File: BF134430.D
Acq: 24 Jul 2023 15:28

Tgt Ion:122 Resp: 35403

Ion	Ratio	Lower	Upper
122	100		
105	141.5	87.5	127.5#
77	106.7	71.4	111.4

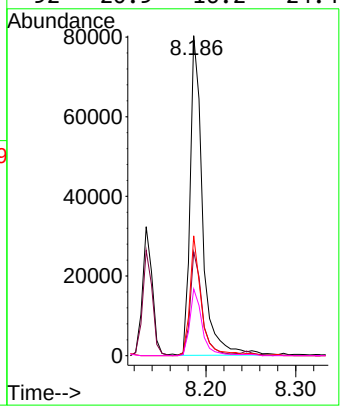




#33
4-Chloroaniline
Concen: 20.929 ng
RT: 8.186 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF134430.D
Acq: 24 Jul 2023 15:28

Tgt Ion:127 Resp: 7718

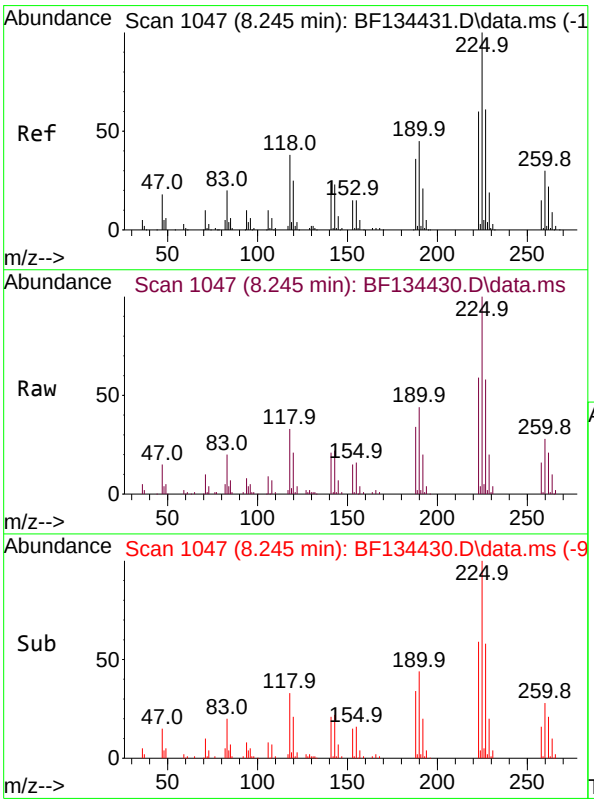
Ion	Ratio	Lower	Upper
127	100		
129	32.5	25.6	38.4
65	37.4	25.4	38.0
92	20.9	16.2	24.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

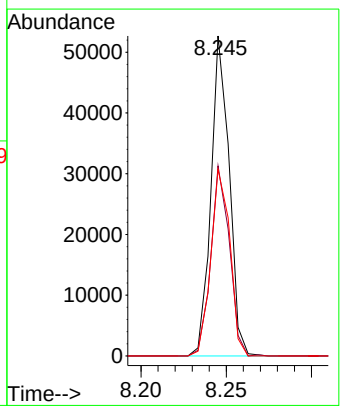
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

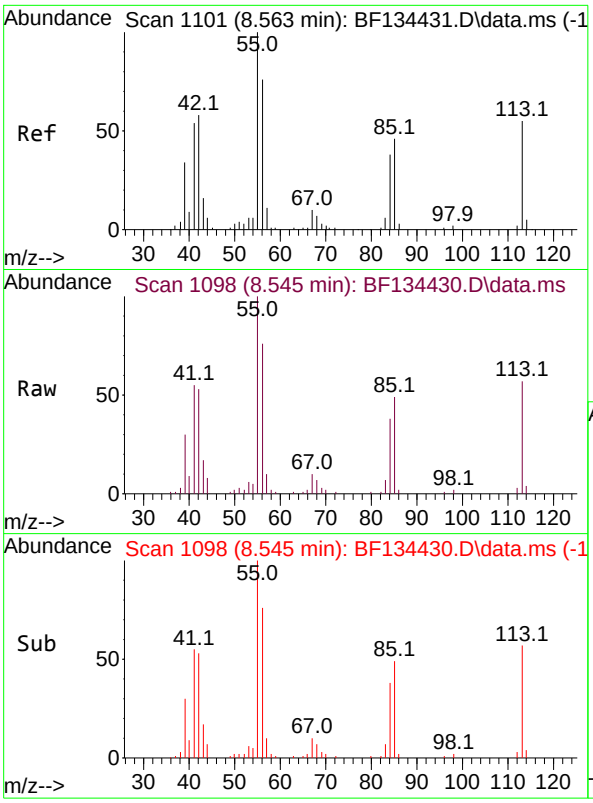


#34
Hexachlorobutadiene
Concen: 21.141 ng
RT: 8.245 min Scan# 1047
Delta R.T. -0.000 min
Lab File: BF134430.D
Acq: 24 Jul 2023 15:28

Tgt Ion:225 Resp: 39060

Ion	Ratio	Lower	Upper
225	100		
223	59.4	48.2	72.4
227	58.3	48.5	72.7

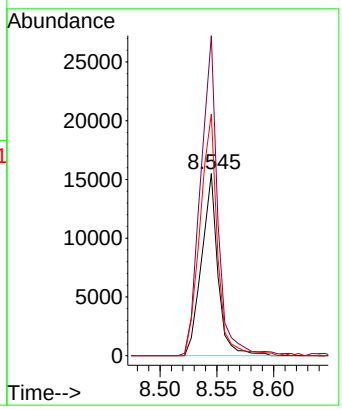




#35
Caprolactam
Concen: 19.855 ng
RT: 8.545 min Scan# 1
Delta R.T. -0.018 min
Lab File: BF134430.D
Acq: 24 Jul 2023 15:28

Tgt Ion:113 Resp: 1549

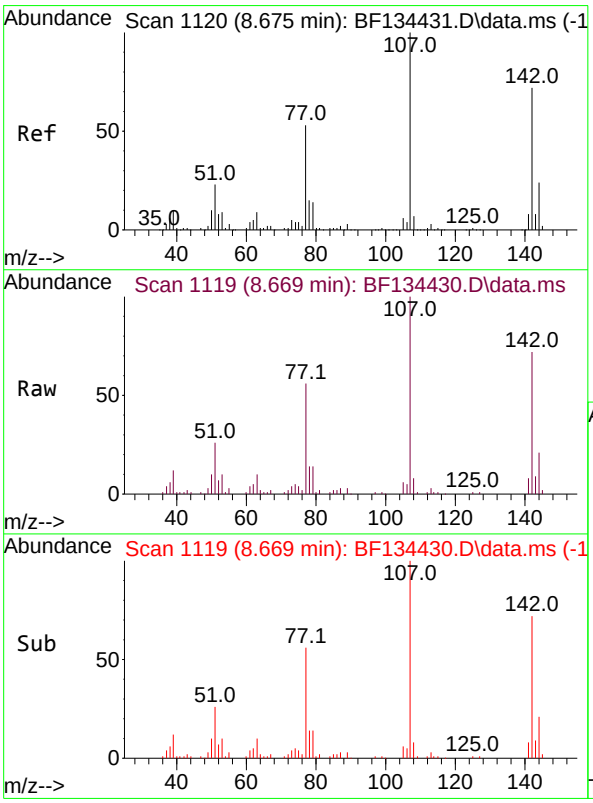
Ion	Ratio	Lower	Upper
113	100		
55	175.8	161.5	201.5
56	132.7	117.8	157.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

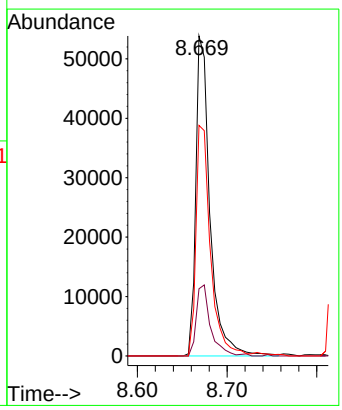
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

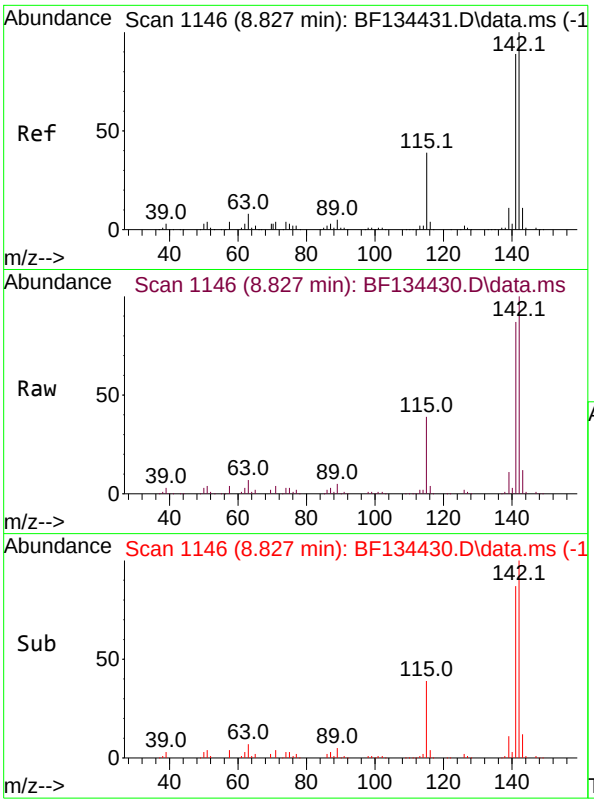


#36
4-Chloro-3-methylphenol
Concen: 20.099 ng
RT: 8.669 min Scan# 1119
Delta R.T. -0.006 min
Lab File: BF134430.D
Acq: 24 Jul 2023 15:28

Tgt Ion:107 Resp: 59295

Ion	Ratio	Lower	Upper
107	100		
144	21.0	19.6	29.4
142	72.0	57.7	86.5





#37
2-Methylnaphthalene
Concen: 20.692 ng
RT: 8.827 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF134430.D
Acq: 24 Jul 2023 15:28

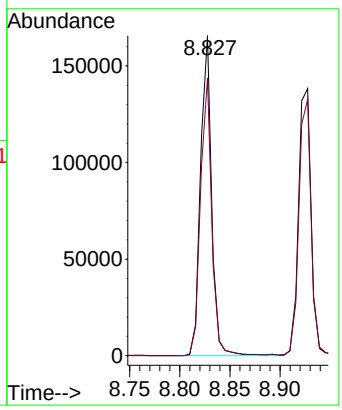
Tgt Ion:142 Resp: 12827

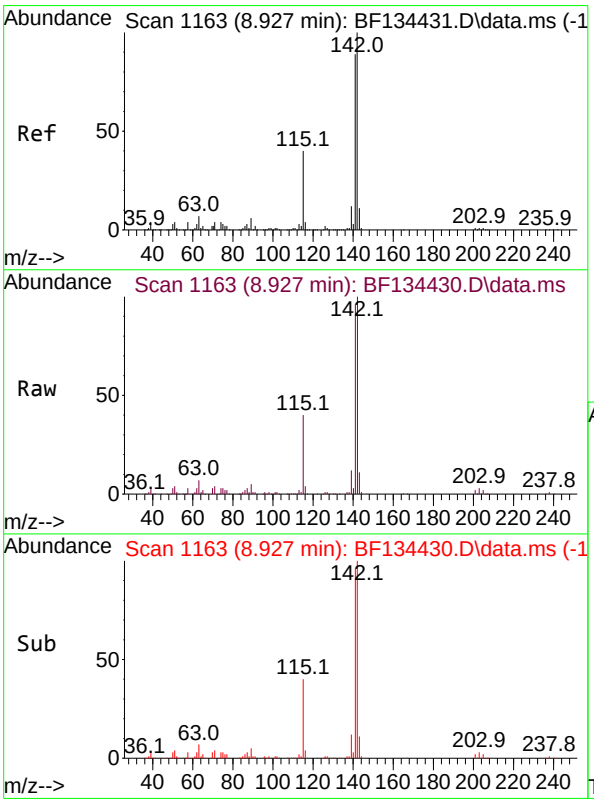
Ion	Ratio	Lower	Upper
142	100		
141	86.7	70.8	106.2

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

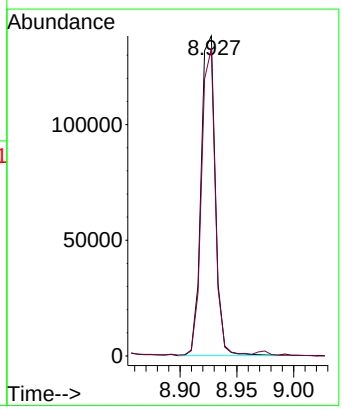


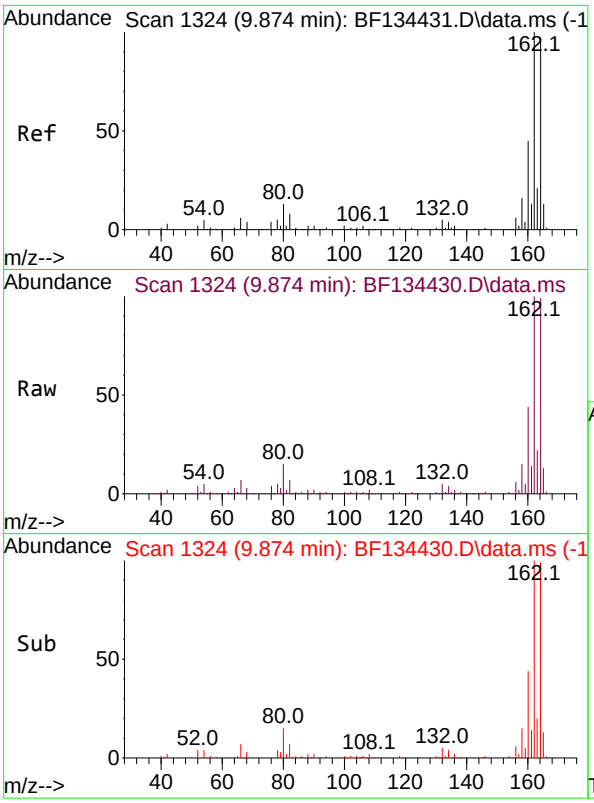


#38
1-Methylnaphthalene
Concen: 20.993 ng
RT: 8.927 min Scan# 1163
Delta R.T. -0.000 min
Lab File: BF134430.D
Acq: 24 Jul 2023 15:28

Tgt Ion:142 Resp: 120732

Ion	Ratio	Lower	Upper
142	100		
141	96.0	71.4	107.2

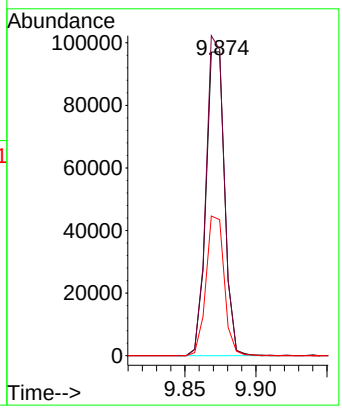




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.874 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF134430.D
Acq: 24 Jul 2023 15:28

Tgt Ion:164 Resp: 8832

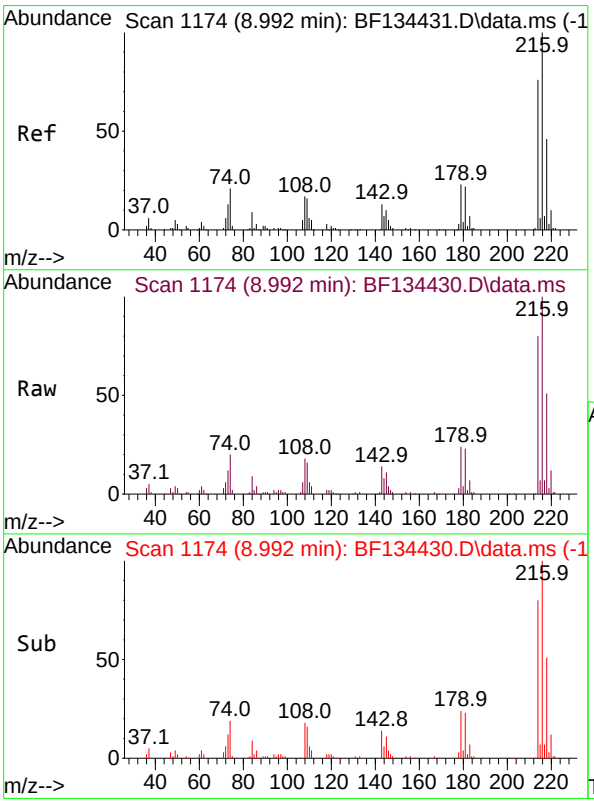
Ion	Ratio	Lower	Upper
164	100		
162	100.7	82.6	123.8
160	44.8	37.2	55.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

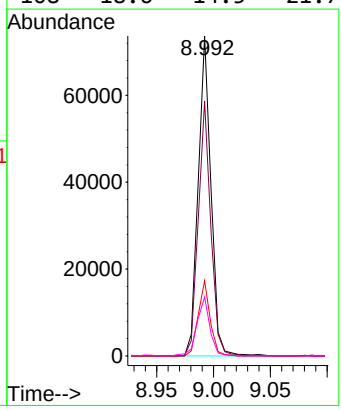
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

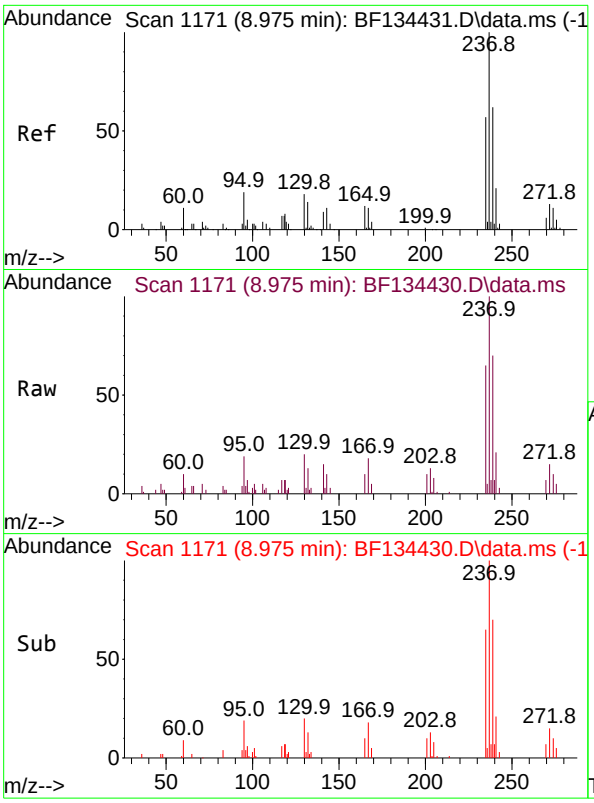


#40
1,2,4,5-Tetrachlorobenzene
Concen: 20.629 ng
RT: 8.992 min Scan# 1174
Delta R.T. -0.000 min
Lab File: BF134430.D
Acq: 24 Jul 2023 15:28

Tgt Ion:216 Resp: 57745

Ion	Ratio	Lower	Upper
216	100		
214	78.1	62.3	93.5
179	22.0	17.4	26.0
108	18.6	14.5	21.7





#41
Hexachlorocyclopentadiene
Concen: 19.775 ng
RT: 8.975 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF134430.D
Acq: 24 Jul 2023 15:28

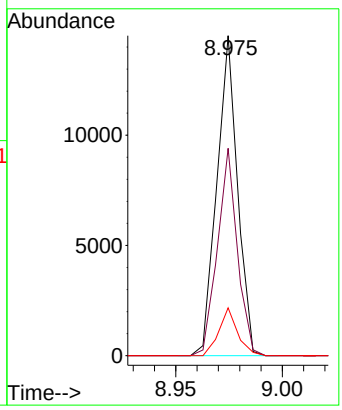
Tgt Ion:237 Resp: 978

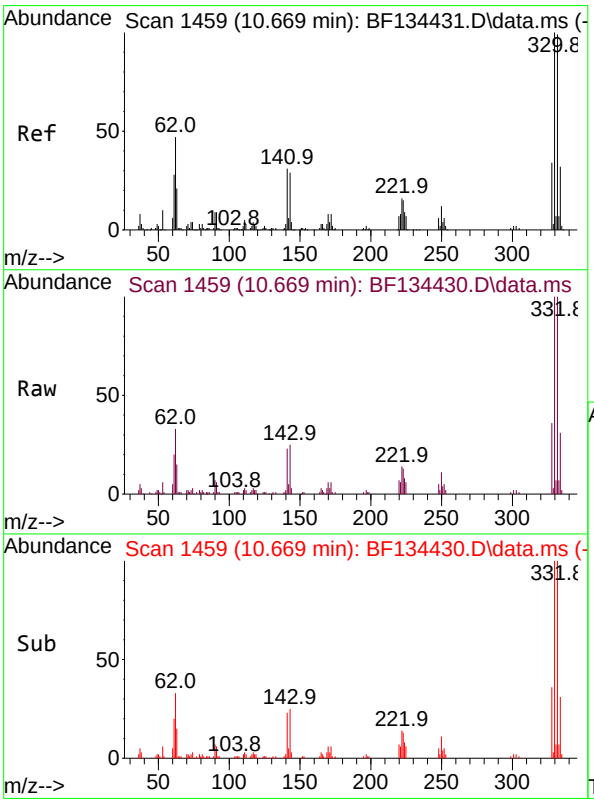
Ion	Ratio	Lower	Upper
237	100		
235	64.8	37.0	77.0
272	14.9	0.0	32.7

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

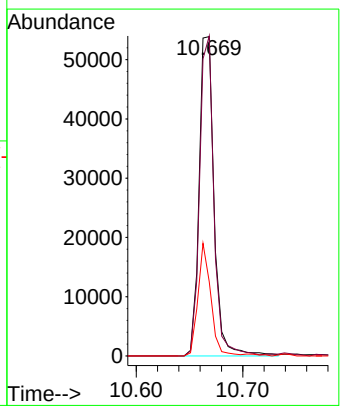


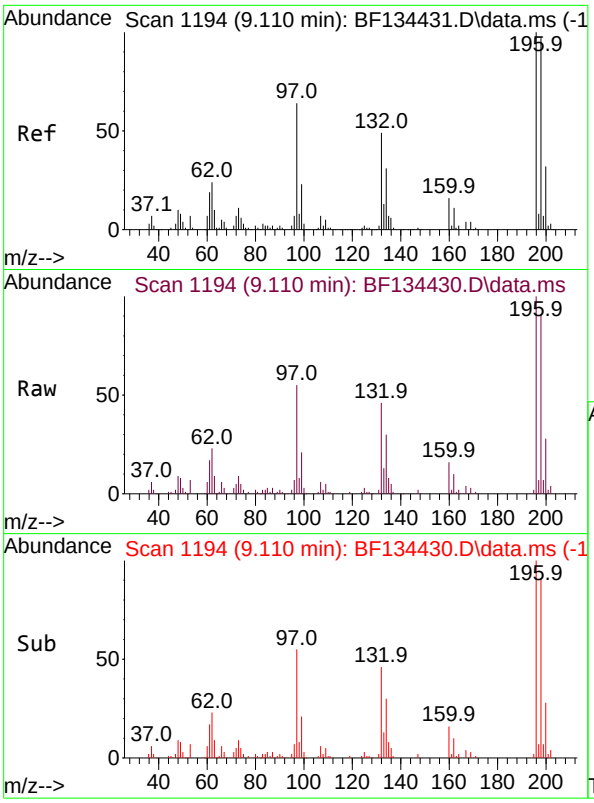


#42
2,4,6-Tribromophenol
Concen: 42.280 ng
RT: 10.669 min Scan# 1459
Delta R.T. -0.000 min
Lab File: BF134430.D
Acq: 24 Jul 2023 15:28

Tgt Ion:330 Resp: 53061

Ion	Ratio	Lower	Upper
330	100		
332	94.8	78.8	118.2
141	30.0	25.4	38.2

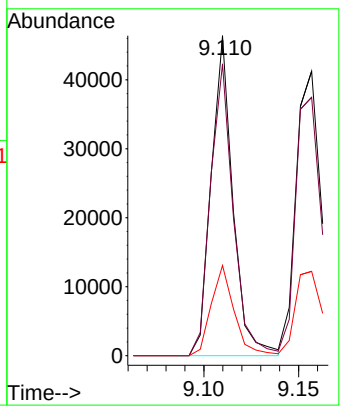




#43
2,4,6-Trichlorophenol
Concen: 20.643 ng
RT: 9.110 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF134430.D
Acq: 24 Jul 2023 15:28

Tgt Ion:196 Resp: 3706

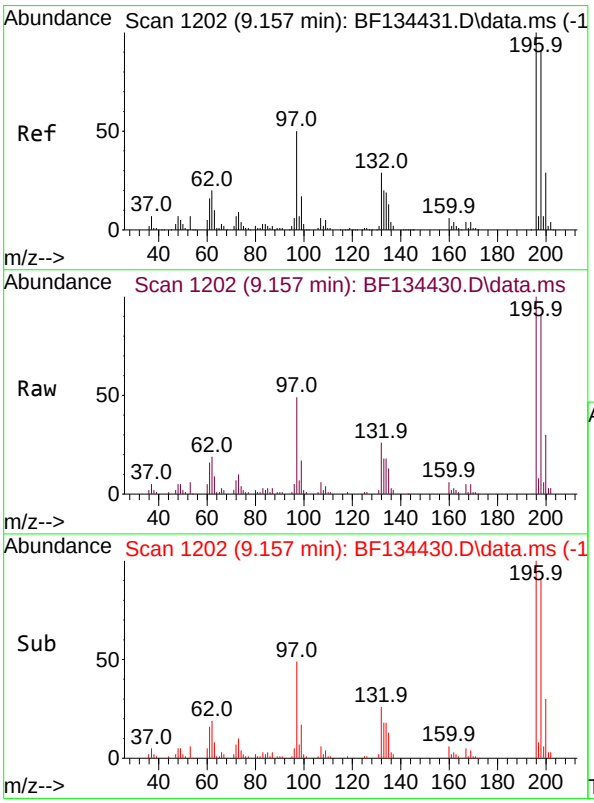
Ion	Ratio	Lower	Upper
196	100		
198	91.2	77.4	116.2
200	28.2	25.4	38.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

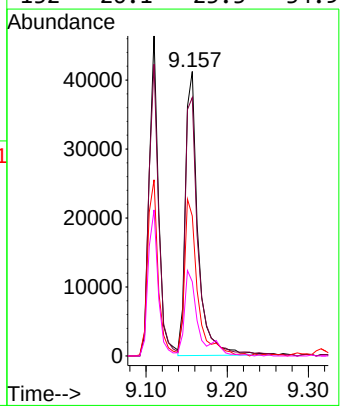
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

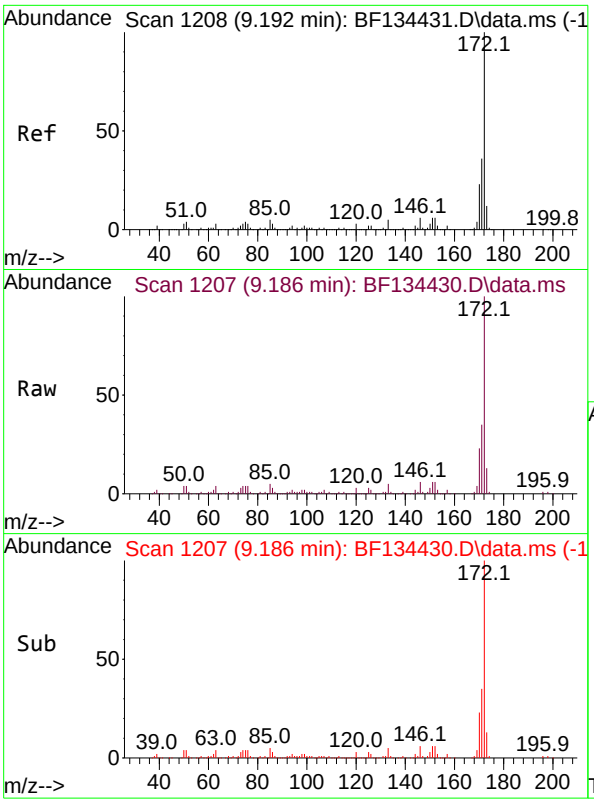


#44
2,4,5-Trichlorophenol
Concen: 21.247 ng
RT: 9.157 min Scan# 1202
Delta R.T. -0.000 min
Lab File: BF134430.D
Acq: 24 Jul 2023 15:28

Tgt Ion:196 Resp: 44452

Ion	Ratio	Lower	Upper
196	100		
198	90.8	73.0	109.4
97	49.2	40.8	61.2
132	26.1	23.3	34.9

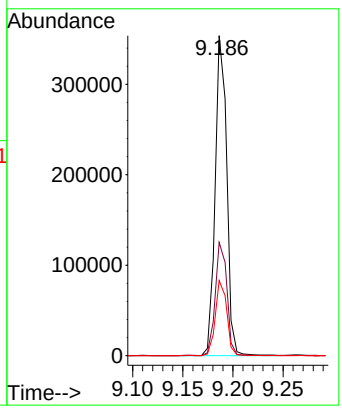




#45
2-Fluorobiphenyl
Concen: 42.121 ng
RT: 9.186 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF134430.D
Acq: 24 Jul 2023 15:28

Tgt Ion:172 Resp: 28340

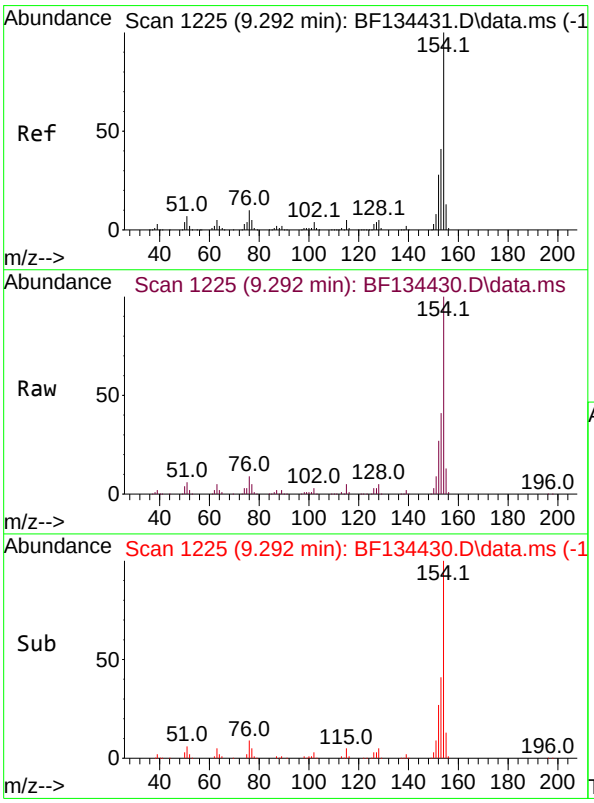
Ion	Ratio	Lower	Upper
172	100		
171	35.4	28.8	43.2
170	23.5	18.7	28.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

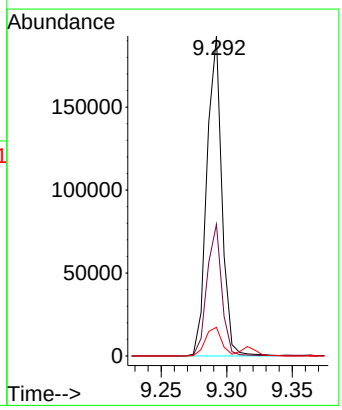
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

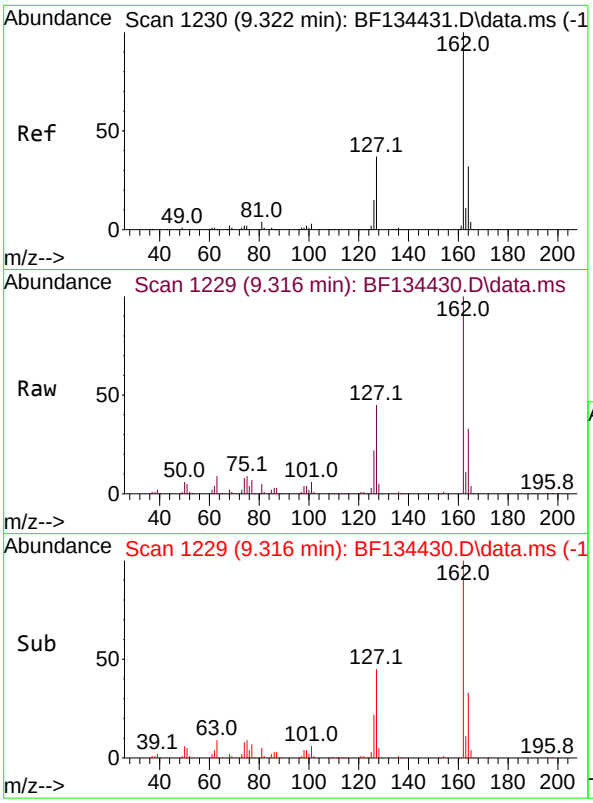


#46
1,1'-Biphenyl
Concen: 21.050 ng
RT: 9.292 min Scan# 1225
Delta R.T. -0.000 min
Lab File: BF134430.D
Acq: 24 Jul 2023 15:28

Tgt Ion:154 Resp: 153247

Ion	Ratio	Lower	Upper
154	100		
153	41.2	20.8	60.8
76	9.0	0.0	30.2

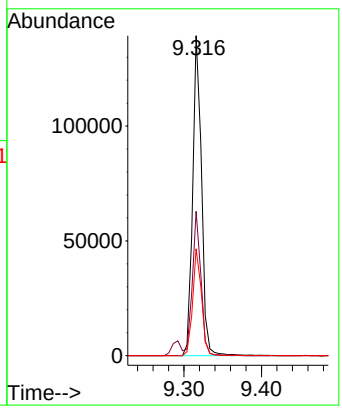




#47
2-Chloronaphthalene
Concen: 20.708 ng
RT: 9.316 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF134430.D
Acq: 24 Jul 2023 15:28

Tgt Ion:162 Resp: 11113

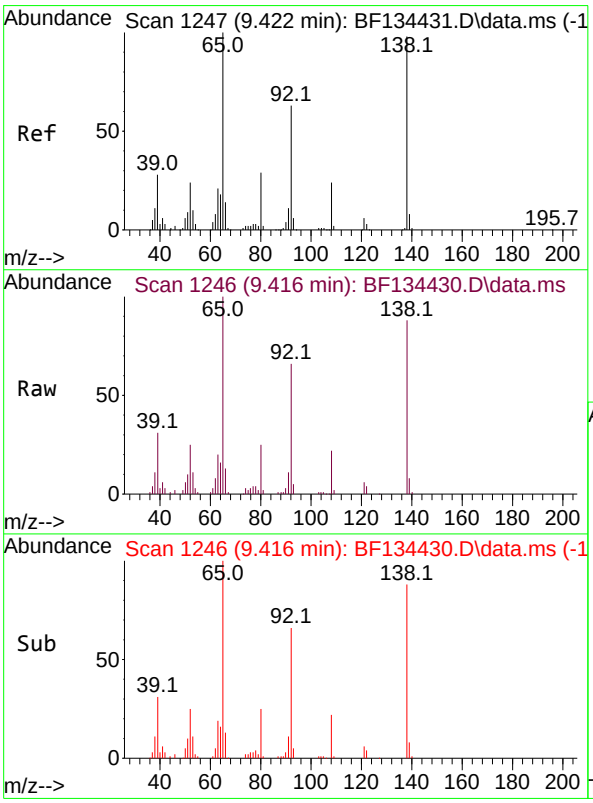
Ion	Ratio	Lower	Upper
162	100		
127	45.1	34.0	51.0
164	33.4	25.7	38.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

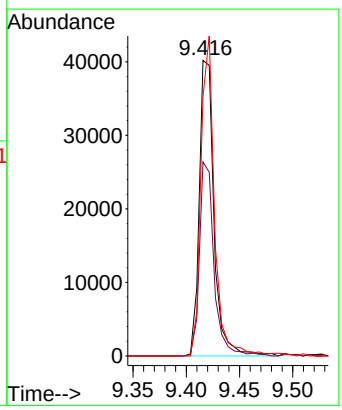
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

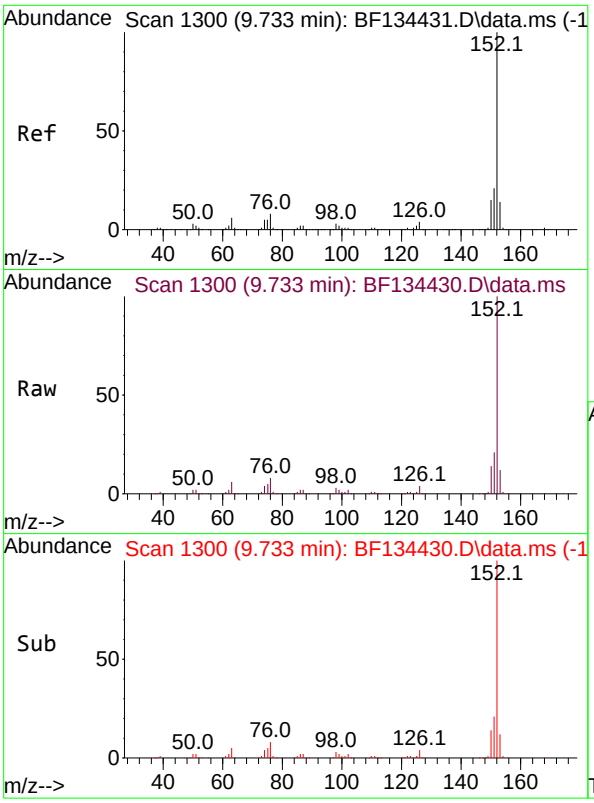


#48
2-Nitroaniline
Concen: 20.154 ng
RT: 9.416 min Scan# 1246
Delta R.T. -0.006 min
Lab File: BF134430.D
Acq: 24 Jul 2023 15:28

Tgt Ion: 65 Resp: 38955

Ion	Ratio	Lower	Upper
65	100		
92	65.7	50.7	76.1
138	87.8	78.2	117.4

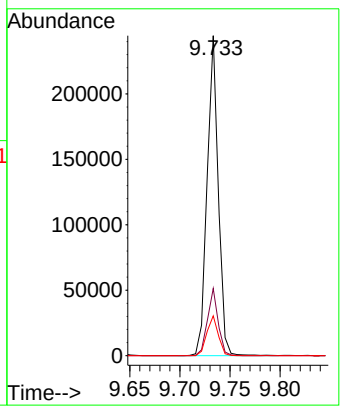




#49
Acenaphthylene
Concen: 20.958 ng
RT: 9.733 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134430.D
Acq: 24 Jul 2023 15:28

Tgt Ion:152 Resp: 19002

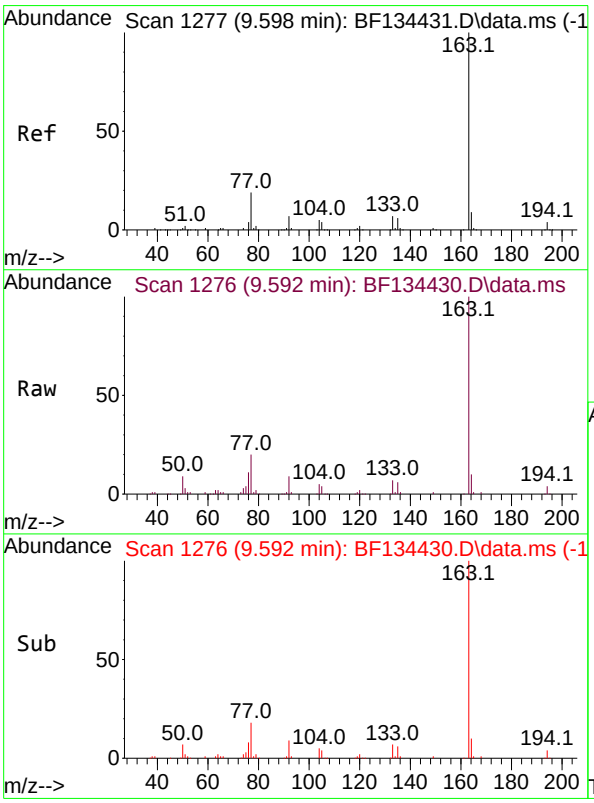
Ion	Ratio	Lower	Upper
152	100		
151	21.0	16.4	24.6
153	12.5	10.9	16.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

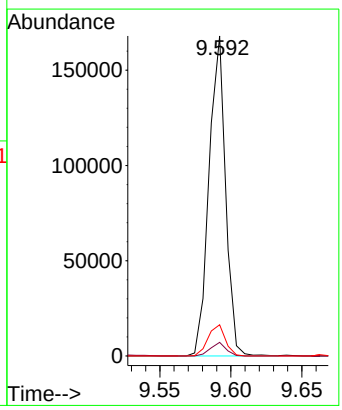
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

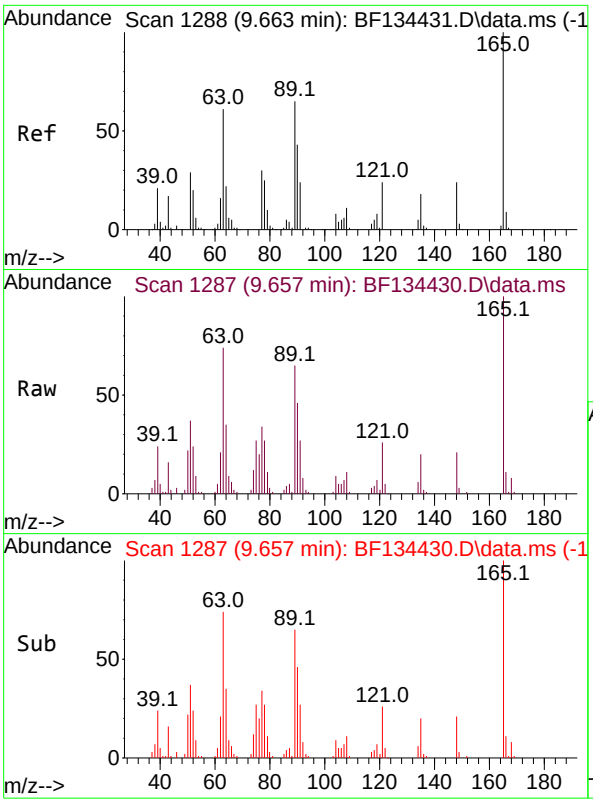


#50
Dimethylphthalate
Concen: 20.789 ng
RT: 9.592 min Scan# 1276
Delta R.T. -0.006 min
Lab File: BF134430.D
Acq: 24 Jul 2023 15:28

Tgt Ion:163 Resp: 136120

Ion	Ratio	Lower	Upper
163	100		
194	4.3	3.3	4.9
164	9.7	7.5	11.3

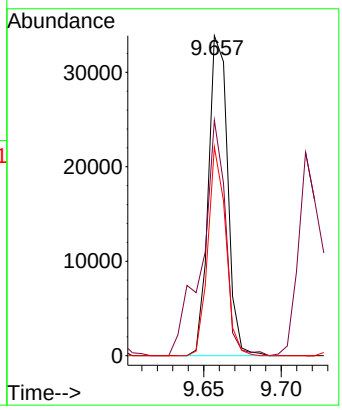




#51
2,6-Dinitrotoluene
Concen: 20.389 ng
RT: 9.657 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF134430.D
Acq: 24 Jul 2023 15:28

Tgt Ion:165 Resp: 2929

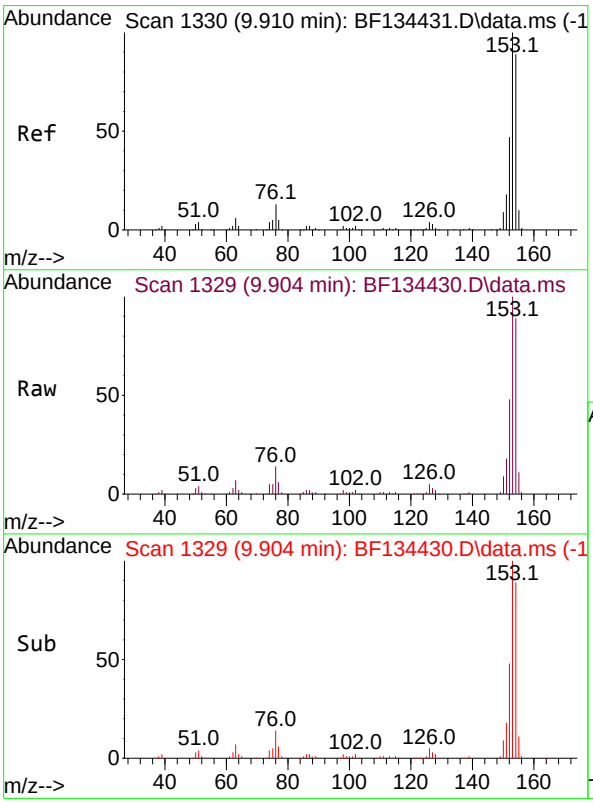
Ion	Ratio	Lower	Upper
165	100		
63	73.6	57.8	86.6
89	65.2	51.8	77.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

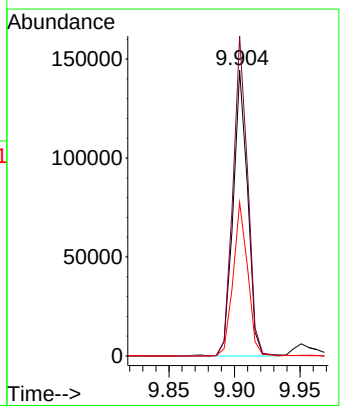
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

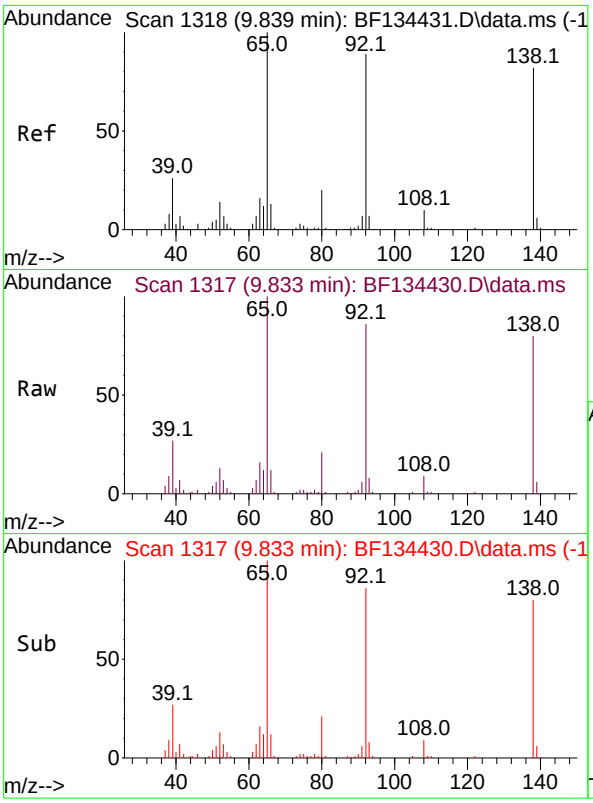


#52
Acenaphthene
Concen: 20.850 ng
RT: 9.904 min Scan# 1329
Delta R.T. -0.006 min
Lab File: BF134430.D
Acq: 24 Jul 2023 15:28

Tgt Ion:154 Resp: 111676

Ion	Ratio	Lower	Upper
154	100		
153	112.0	90.0	135.0
152	53.7	42.4	63.6





#53
3-Nitroaniline
Concen: 21.533 ng
RT: 9.833 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF134430.D
Acq: 24 Jul 2023 15:28

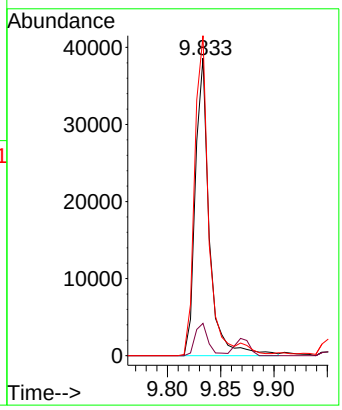
Tgt Ion:138 Resp: 3547

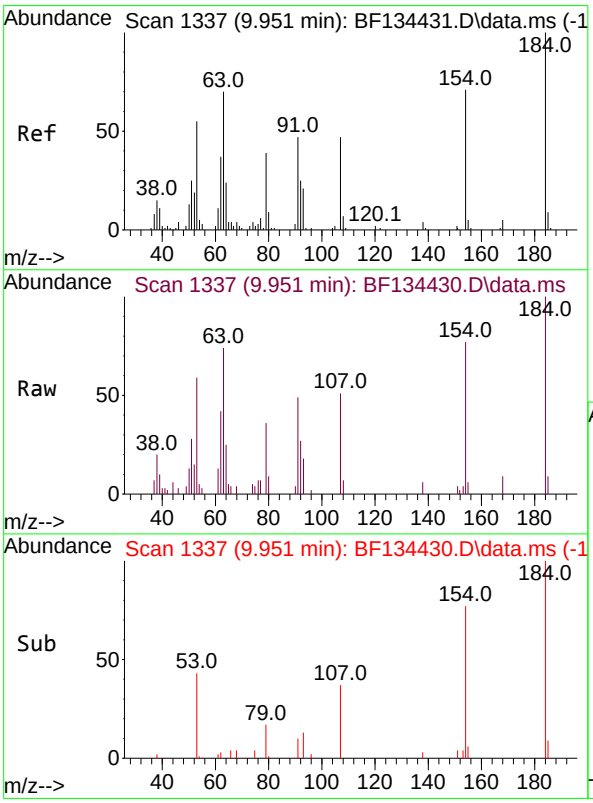
Ion	Ratio	Lower	Upper
138	100		
108	10.8	9.3	13.9
92	107.5	86.6	129.8

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

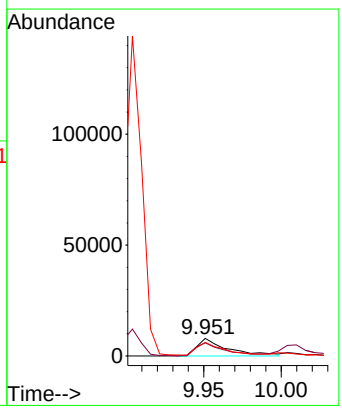


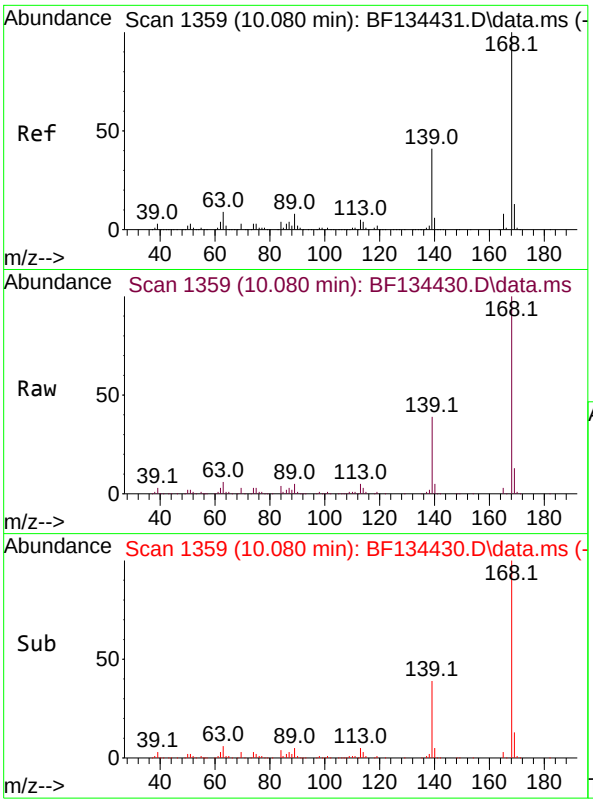


#54
2,4-Dinitrophenol
Concen: 19.672 ng
RT: 9.951 min Scan# 1337
Delta R.T. -0.000 min
Lab File: BF134430.D
Acq: 24 Jul 2023 15:28

Tgt Ion:184 Resp: 10760

Ion	Ratio	Lower	Upper
184	100		
63	74.4	57.1	85.7
154	77.5	59.1	88.7

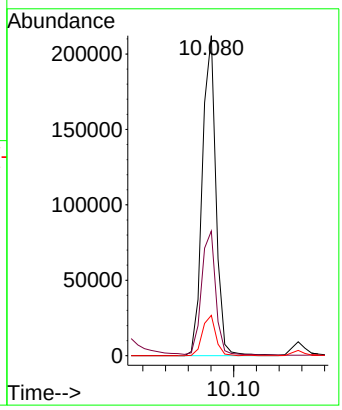




#55
Dibenzofuran
Concen: 21.396 ng
RT: 10.080 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134430.D
Acq: 24 Jul 2023 15:28

Tgt Ion:168 Resp: 17638

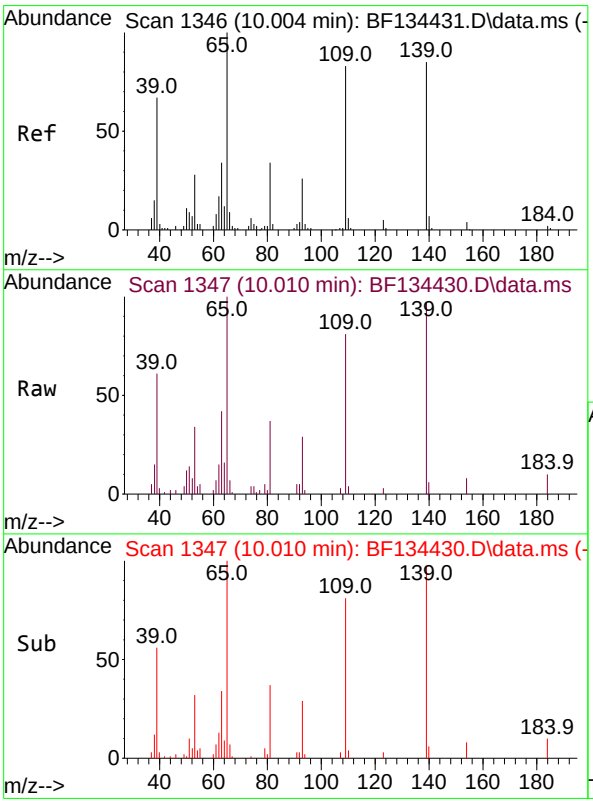
Ion	Ratio	Lower	Upper
168	100		
139	39.0	33.4	50.2
169	12.6	10.6	15.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

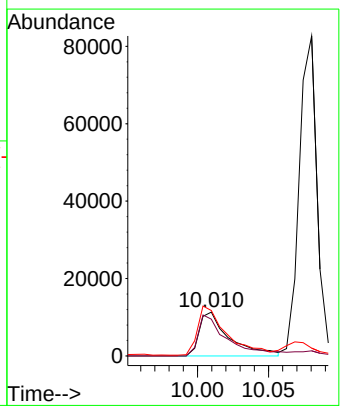
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

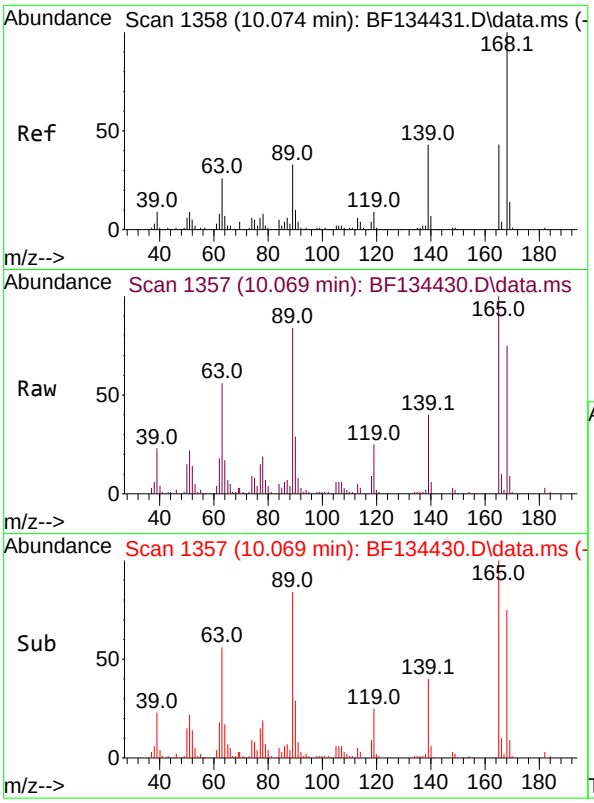


#56
4-Nitrophenol
Concen: 18.965 ng
RT: 10.010 min Scan# 1347
Delta R.T. 0.006 min
Lab File: BF134430.D
Acq: 24 Jul 2023 15:28

Tgt Ion:139 Resp: 16660

Ion	Ratio	Lower	Upper
139	100		
109	83.9	76.9	116.9
65	103.6	98.5	138.5

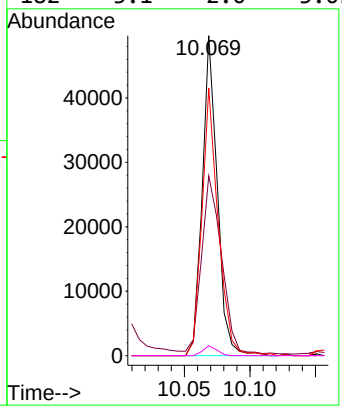




#57
2,4-Dinitrotoluene
Concen: 20.621 ng
RT: 10.069 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF134430.D
Acq: 24 Jul 2023 15:28

Tgt Ion:165 Resp: 3979

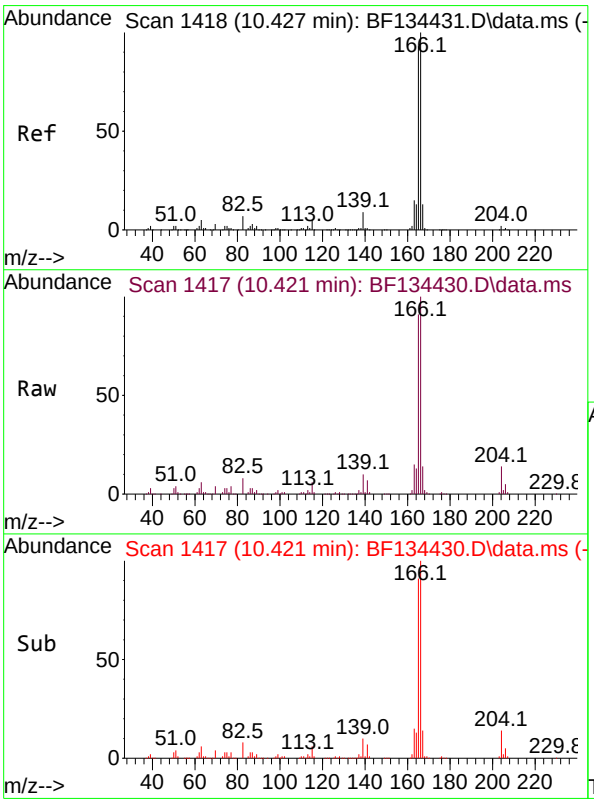
Ion	Ratio	Lower	Upper
165	100		
63	56.2	48.9	73.3
89	83.6	61.7	92.5
182	3.1	2.0	3.0#



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

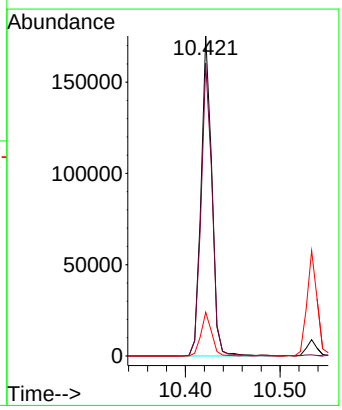
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

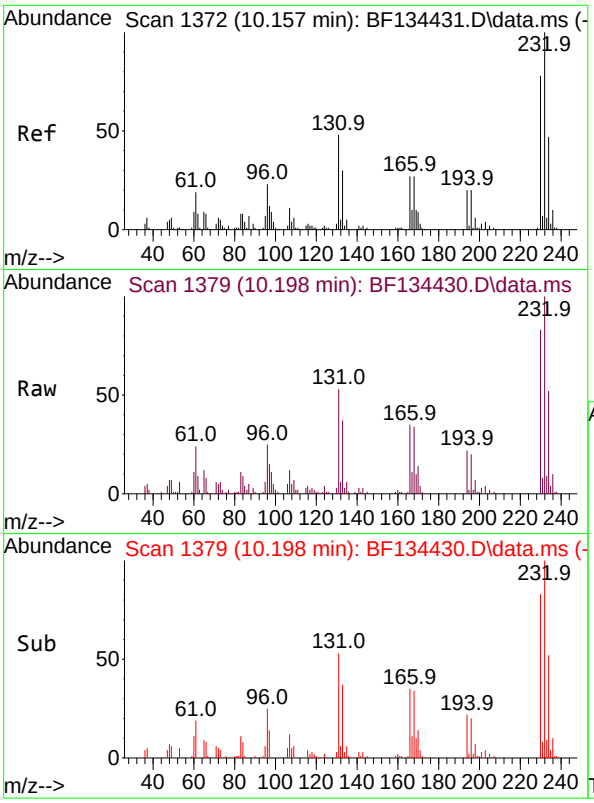


#58
Fluorene
Concen: 20.765 ng
RT: 10.421 min Scan# 1417
Delta R.T. -0.006 min
Lab File: BF134430.D
Acq: 24 Jul 2023 15:28

Tgt Ion:166 Resp: 138096

Ion	Ratio	Lower	Upper
166	100		
165	91.5	74.5	111.7
167	13.7	10.6	16.0

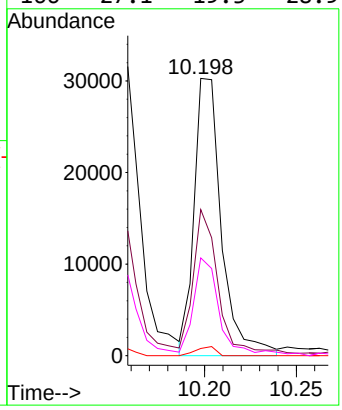




#59
2,3,4,6-Tetrachlorophenol
Concen: 19.462 ng m
RT: 10.198 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF134430.D
Acq: 24 Jul 2023 15:28

Tgt Ion:232 Resp: 3140

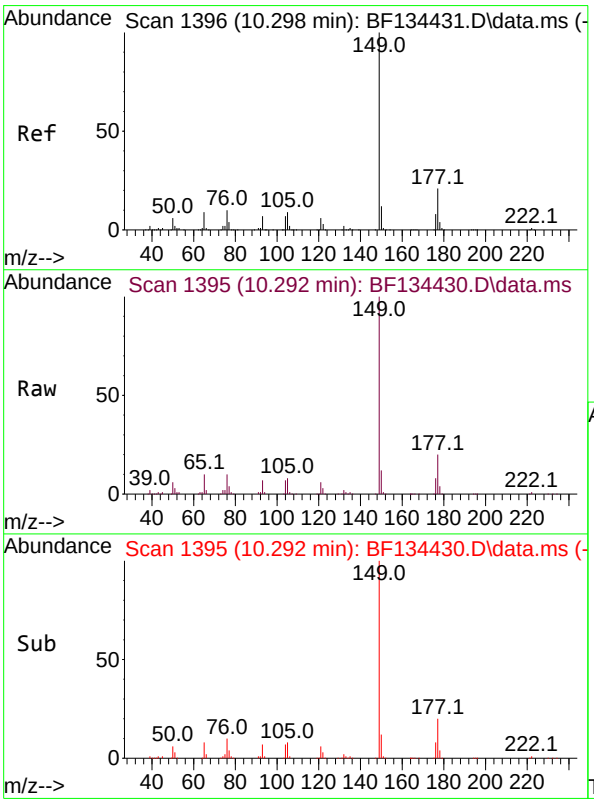
Ion	Ratio	Lower	Upper
232	100		
131	43.0	33.4	50.0
130	2.2	1.8	2.6
166	27.1	19.3	28.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

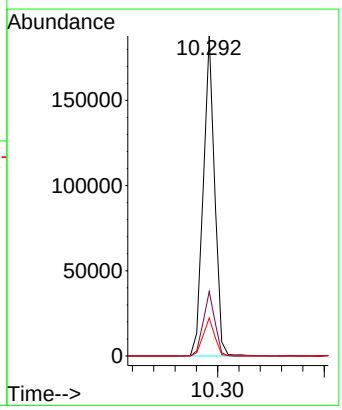
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

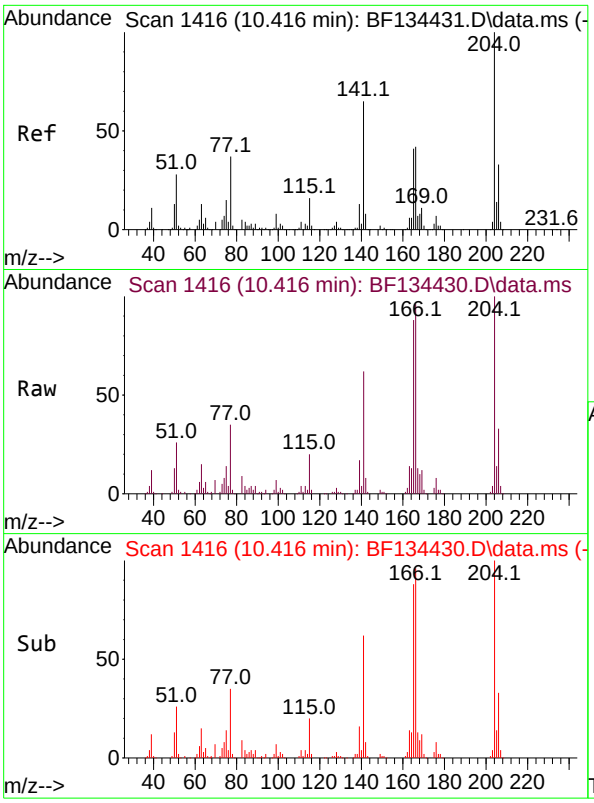


#60
Diethylphthalate
Concen: 20.600 ng
RT: 10.292 min Scan# 1395
Delta R.T. -0.006 min
Lab File: BF134430.D
Acq: 24 Jul 2023 15:28

Tgt Ion:149 Resp: 139654

Ion	Ratio	Lower	Upper
149	100		
177	20.1	17.0	25.4
150	11.9	9.9	14.9





#61
4-Chlorophenyl-phenylether
Concen: 21.282 ng
RT: 10.416 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF134430.D
Acq: 24 Jul 2023 15:28

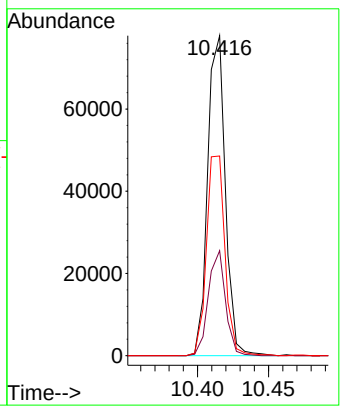
Tgt Ion:204 Resp: 6761(

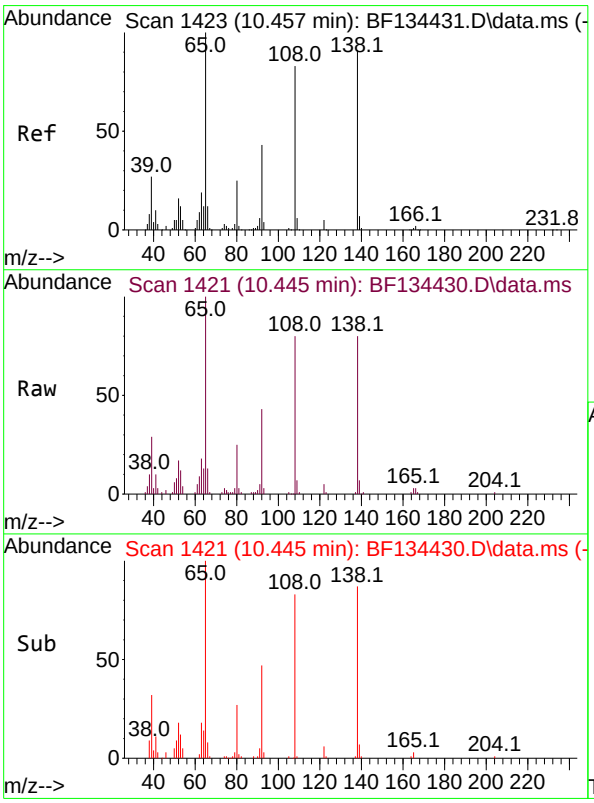
Ion	Ratio	Lower	Upper
204	100		
206	32.8	26.0	39.0
141	62.4	52.2	78.4

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

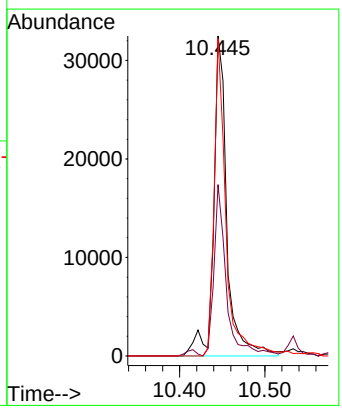


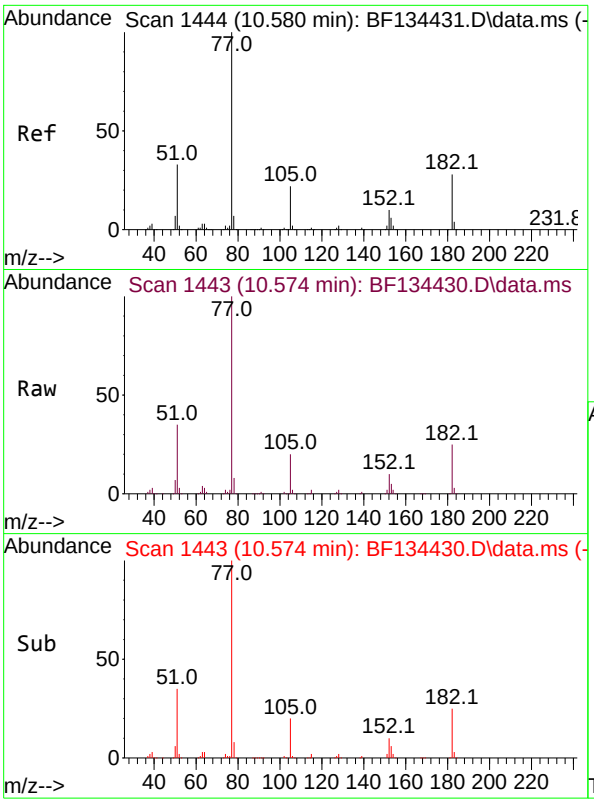


#62
4-Nitroaniline
Concen: 20.847 ng
RT: 10.445 min Scan# 1421
Delta R.T. -0.012 min
Lab File: BF134430.D
Acq: 24 Jul 2023 15:28

Tgt Ion:138 Resp: 35220

Ion	Ratio	Lower	Upper
138	100		
92	53.5	27.0	67.0
108	99.2	70.4	110.4

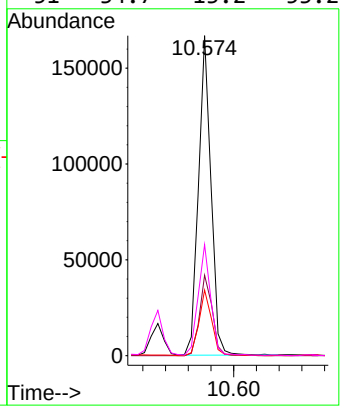




#63
Azobenzene
Concen: 20.444 ng
RT: 10.574 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF134430.D
Acq: 24 Jul 2023 15:28

Tgt Ion: 77 Resp: 12757

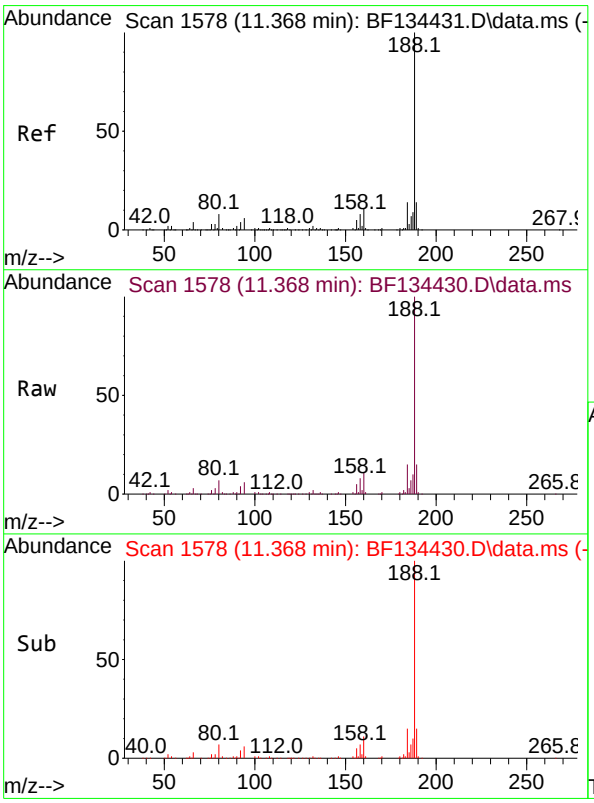
Ion	Ratio	Lower	Upper
77	100		
182	25.2	7.5	47.5
105	20.5	1.9	41.9
51	34.7	13.2	53.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

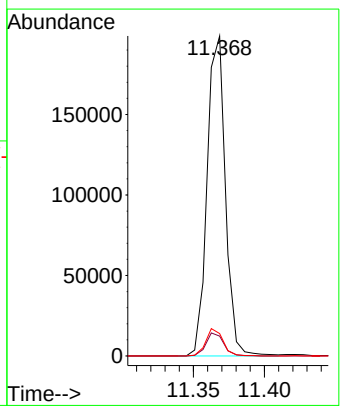
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

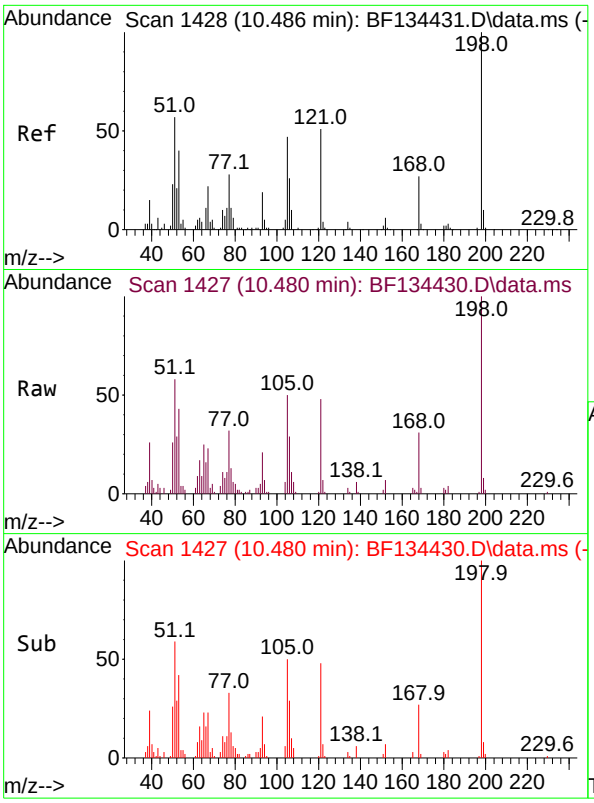


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.368 min Scan# 1578
Delta R.T. -0.000 min
Lab File: BF134430.D
Acq: 24 Jul 2023 15:28

Tgt Ion:188 Resp: 178575

Ion	Ratio	Lower	Upper
188	100		
94	6.2	5.1	7.7
80	7.0	6.6	9.8

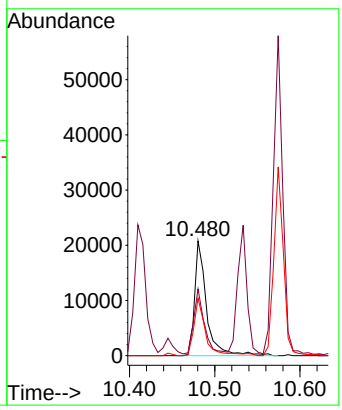




#65
4,6-Dinitro-2-methylphenol
Concen: 19.768 ng
RT: 10.480 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF134430.D
Acq: 24 Jul 2023 15:28

Tgt Ion:198 Resp: 2024

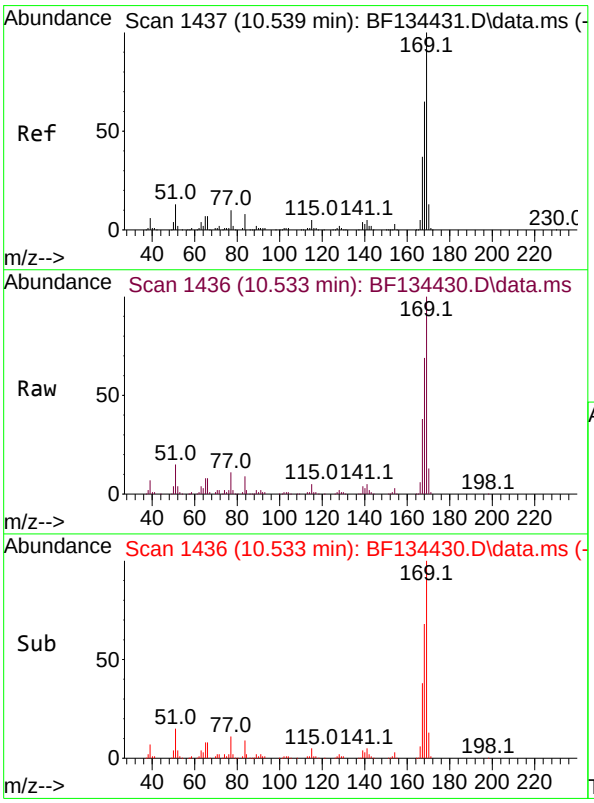
Ion	Ratio	Lower	Upper
198	100		
51	58.1	38.6	78.6
105	50.0	27.9	67.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

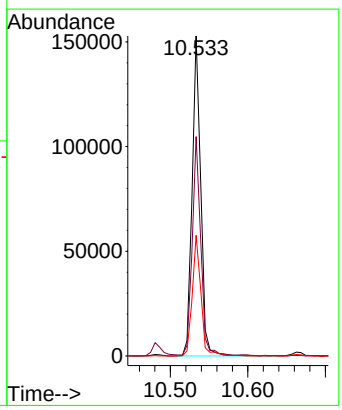
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

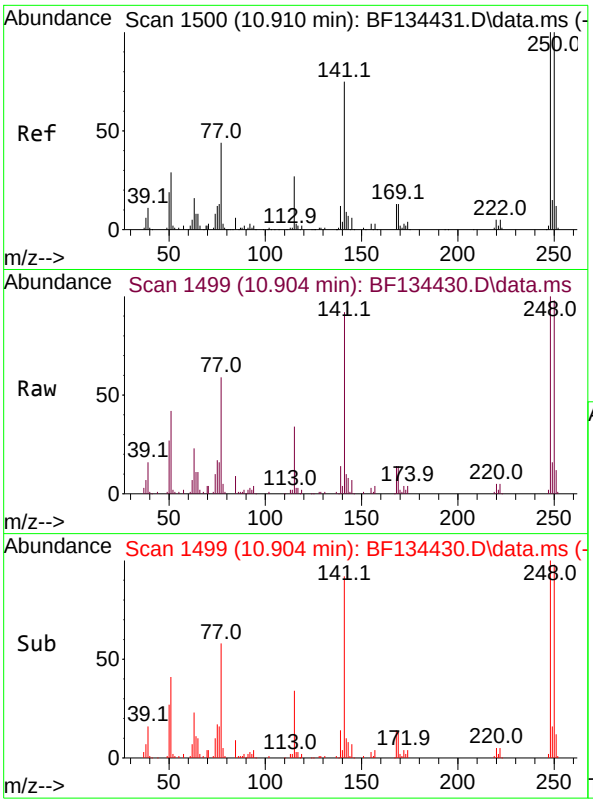


#66
n-Nitrosodiphenylamine
Concen: 20.811 ng
RT: 10.533 min Scan# 1436
Delta R.T. -0.006 min
Lab File: BF134430.D
Acq: 24 Jul 2023 15:28

Tgt Ion:169 Resp: 118238

Ion	Ratio	Lower	Upper
169	100		
168	68.5	52.6	78.8
167	37.7	29.8	44.8

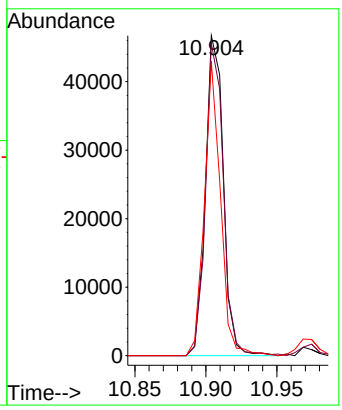




#67
4-Bromophenyl-phenylether
Concen: 20.938 ng
RT: 10.904 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF134430.D
Acq: 24 Jul 2023 15:28

Tgt Ion:248 Resp: 4096

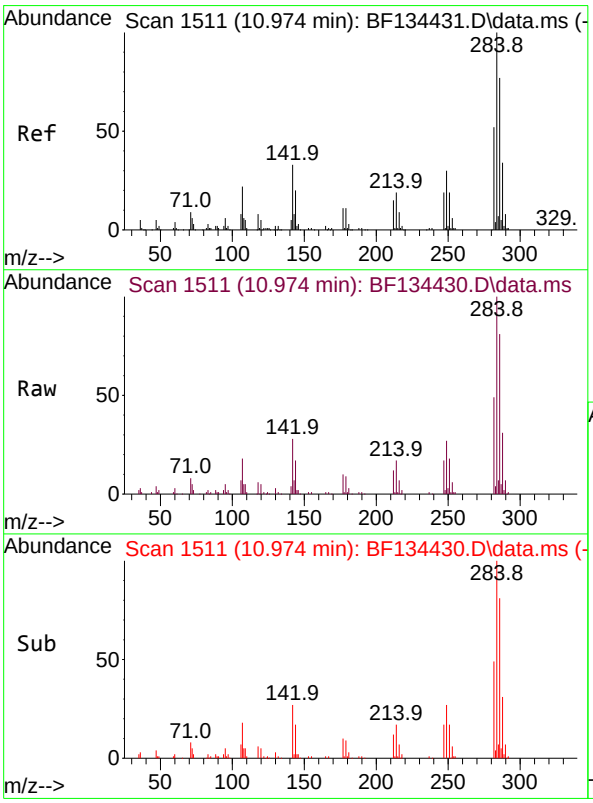
Ion	Ratio	Lower	Upper
248	100		
250	97.6	79.6	119.4
141	92.0	59.6	89.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

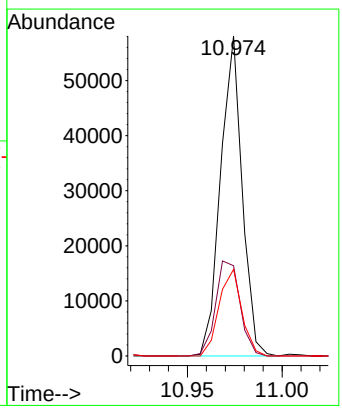
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

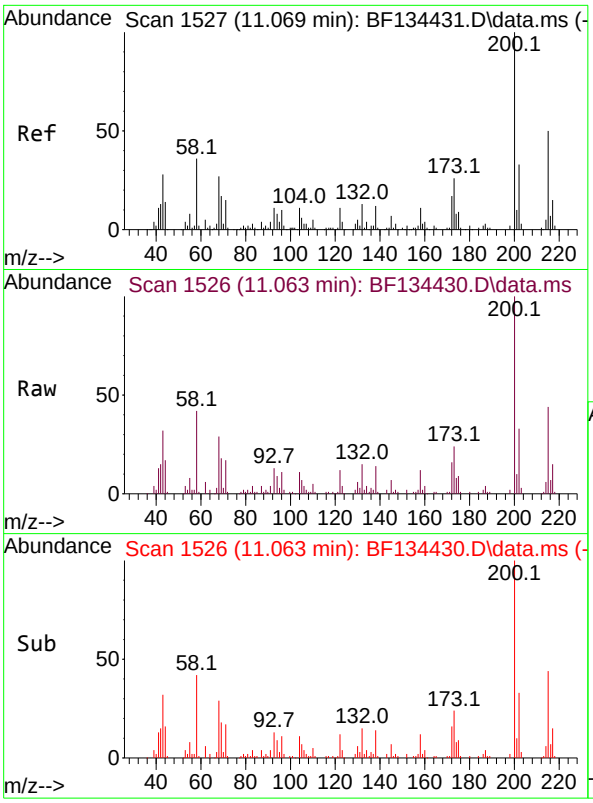


#68
Hexachlorobenzene
Concen: 20.902 ng
RT: 10.974 min Scan# 1511
Delta R.T. -0.000 min
Lab File: BF134430.D
Acq: 24 Jul 2023 15:28

Tgt Ion:284 Resp: 46051

Ion	Ratio	Lower	Upper
284	100		
142	28.2	26.5	39.7
249	27.1	23.8	35.8

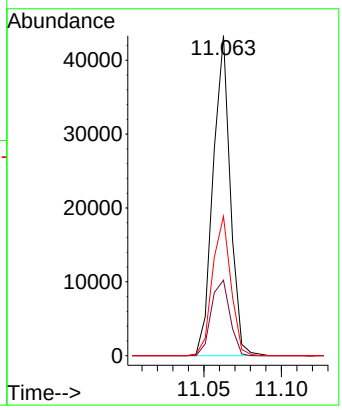




#69
Atrazine
Concen: 21.094 ng
RT: 11.063 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF134430.D
Acq: 24 Jul 2023 15:28

Tgt Ion:200 Resp: 3341

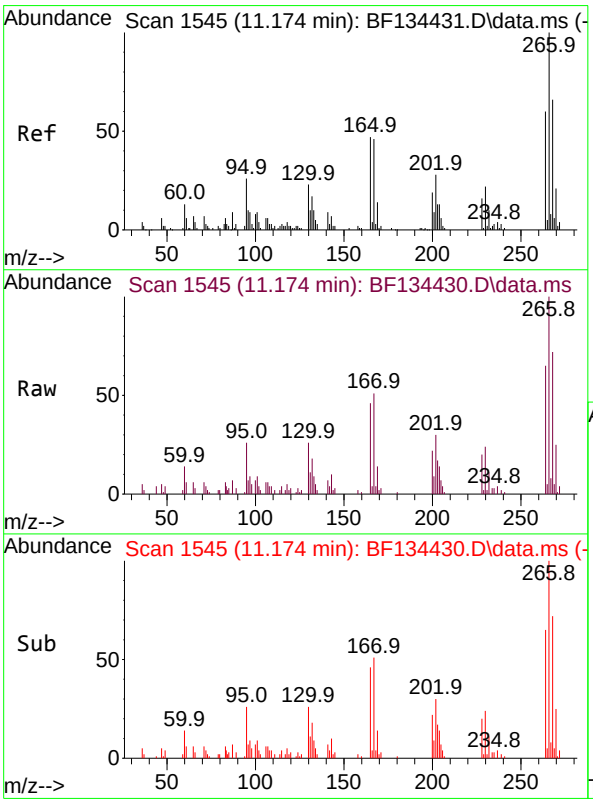
Ion	Ratio	Lower	Upper
200	100		
173	23.6	6.1	46.1
215	43.6	29.7	69.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

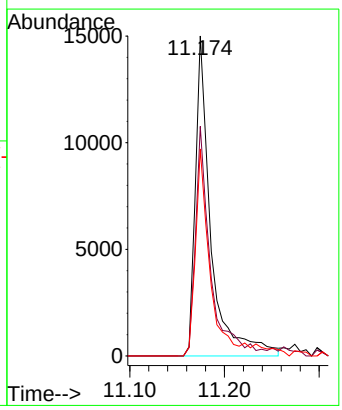
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

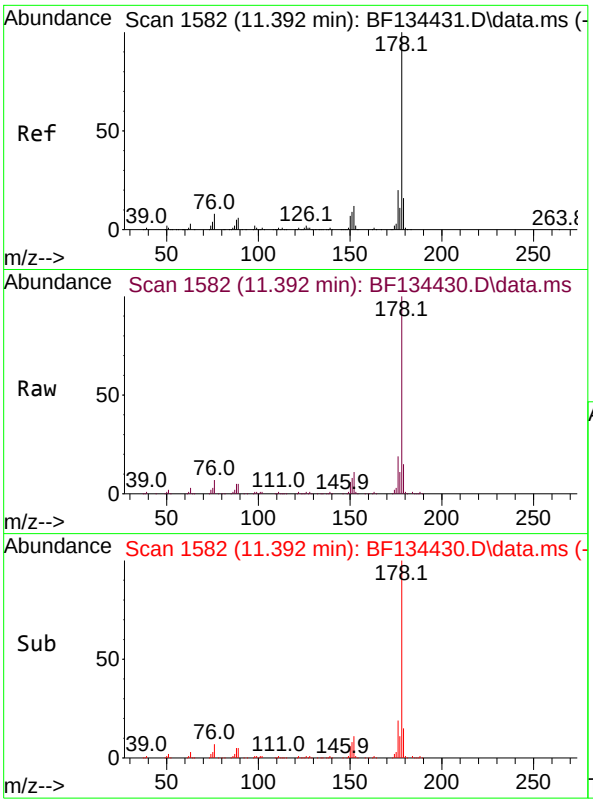


#70
Pentachlorophenol
Concen: 18.534 ng
RT: 11.174 min Scan# 1545
Delta R.T. 0.000 min
Lab File: BF134430.D
Acq: 24 Jul 2023 15:28

Tgt Ion:266 Resp: 17137

Ion	Ratio	Lower	Upper
266	100		
268	71.8	52.9	79.3
264	64.7	47.8	71.6

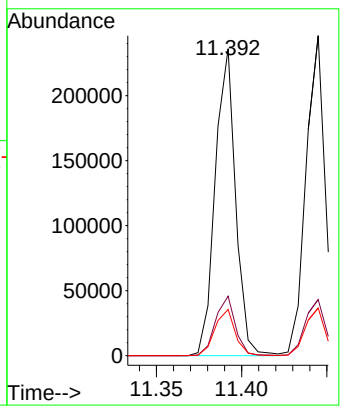




#71
Phenanthrene
Concen: 21.080 ng
RT: 11.392 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF134430.D
Acq: 24 Jul 2023 15:28

Tgt Ion:178 Resp: 19668

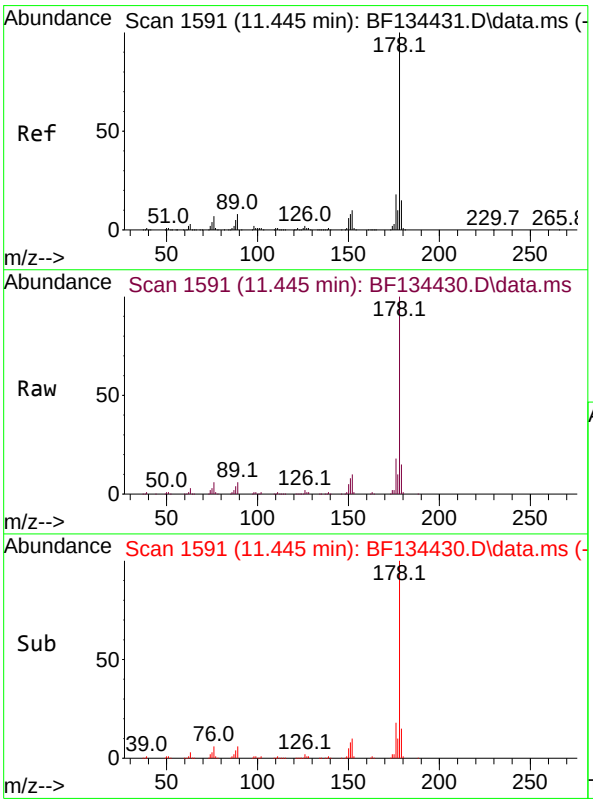
Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.8	23.6
179	15.1	12.7	19.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

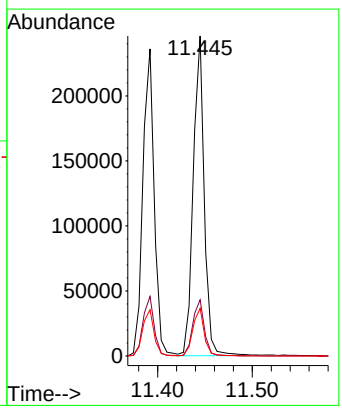
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

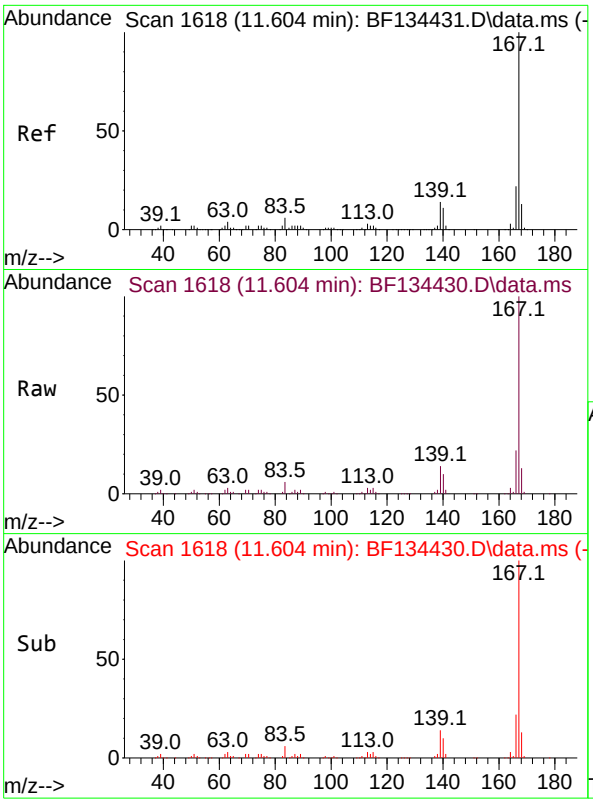


#72
Anthracene
Concen: 20.747 ng
RT: 11.445 min Scan# 1591
Delta R.T. -0.000 min
Lab File: BF134430.D
Acq: 24 Jul 2023 15:28

Tgt Ion:178 Resp: 199792

Ion	Ratio	Lower	Upper
178	100		
176	17.5	14.6	21.8
179	14.9	12.3	18.5

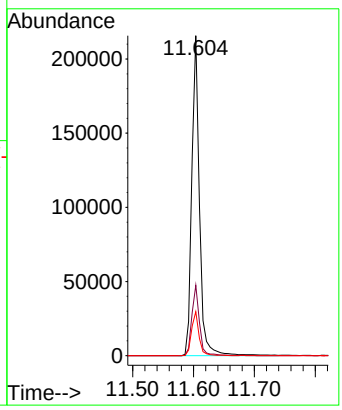




#73
Carbazole
Concen: 20.812 ng
RT: 11.604 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF134430.D
Acq: 24 Jul 2023 15:28

Tgt Ion:167 Resp: 18872

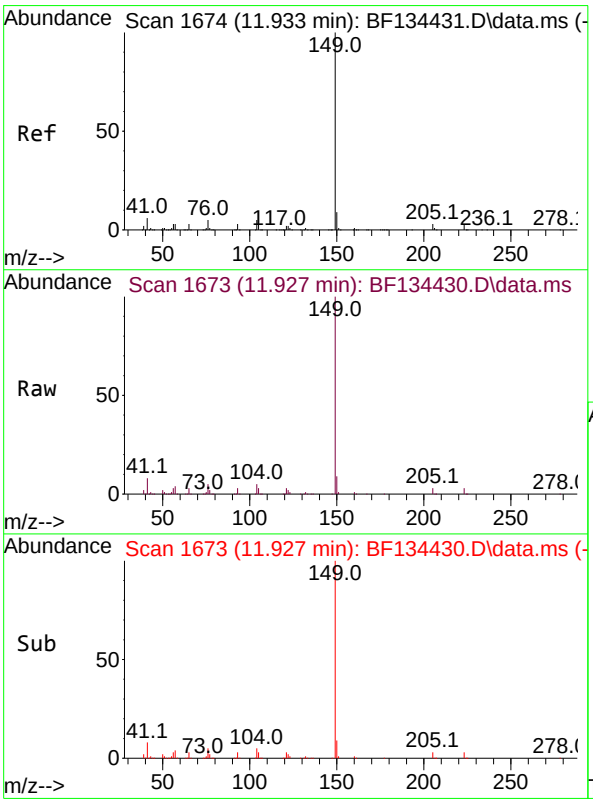
Ion	Ratio	Lower	Upper
167	100		
166	22.0	17.5	26.3
139	13.7	11.0	16.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

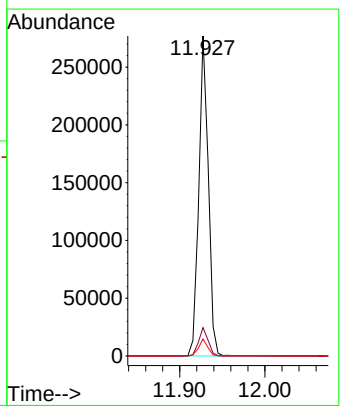
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

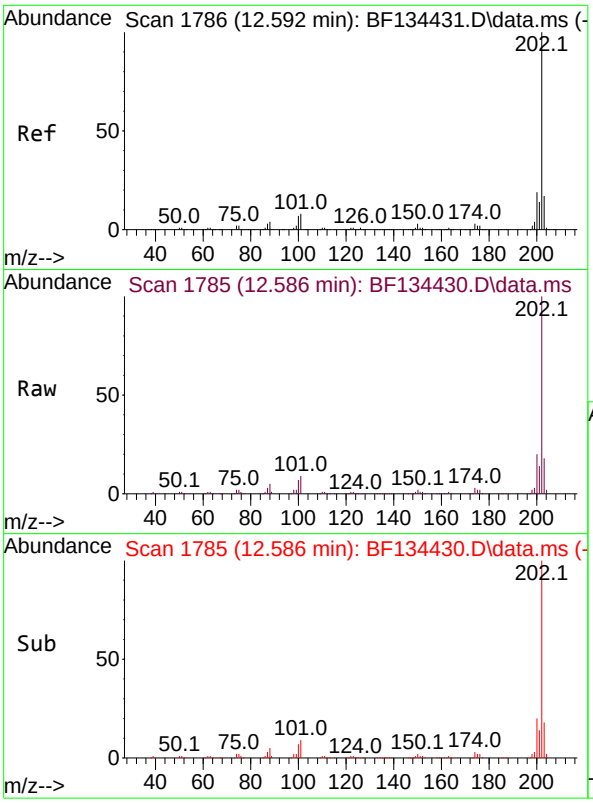


#74
Di-n-butylphthalate
Concen: 20.670 ng
RT: 11.927 min Scan# 1673
Delta R.T. -0.006 min
Lab File: BF134430.D
Acq: 24 Jul 2023 15:28

Tgt Ion:149 Resp: 215165

Ion	Ratio	Lower	Upper
149	100		
150	8.9	7.2	10.8
104	5.3	3.8	5.8

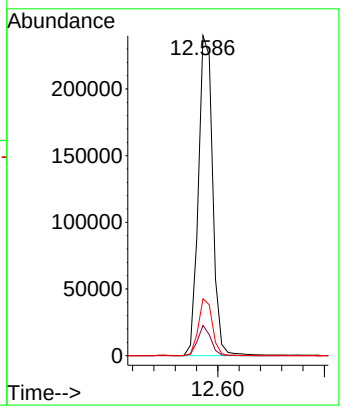




#75
Fluoranthene
Concen: 20.634 ng
RT: 12.586 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF134430.D
Acq: 24 Jul 2023 15:28

Tgt Ion:202 Resp: 22437

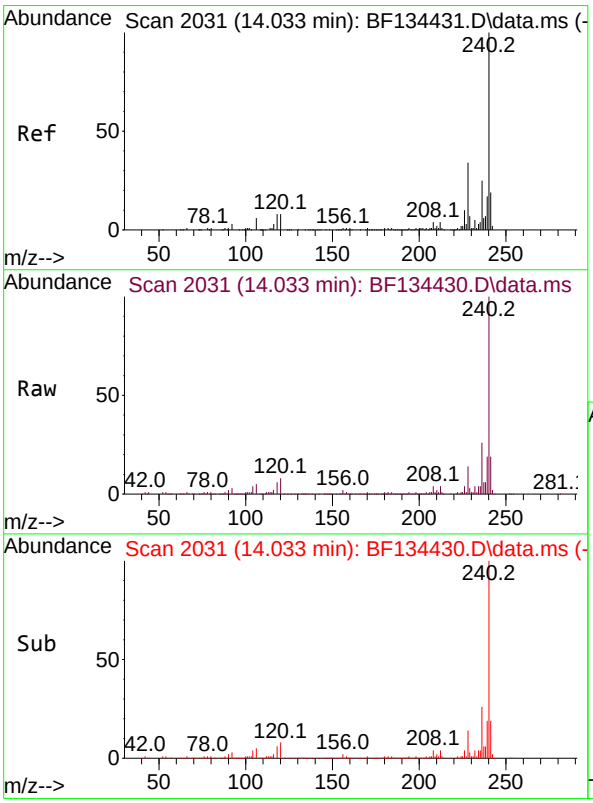
Ion	Ratio	Lower	Upper
202	100		
101	9.5	0.0	28.5
203	17.8	0.0	37.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

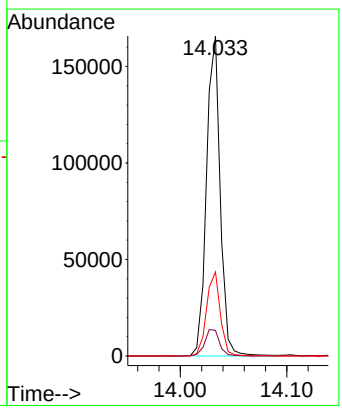
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

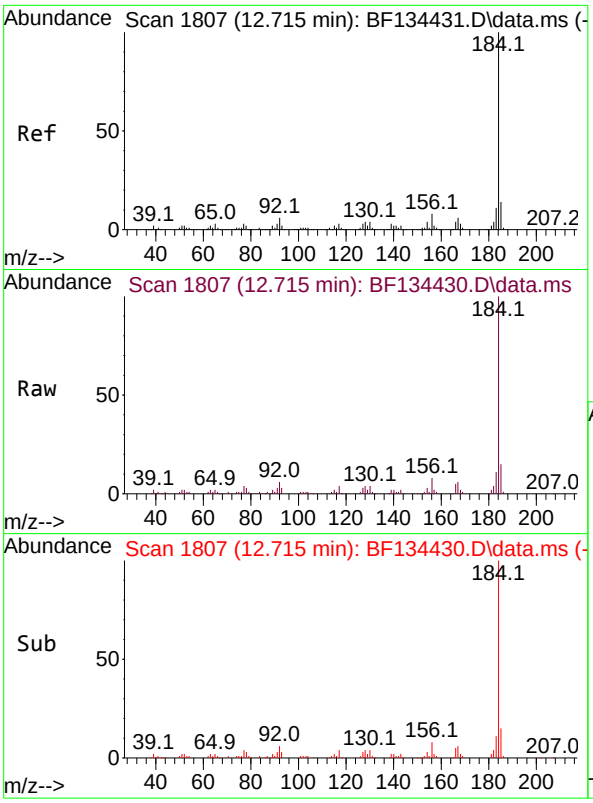


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.033 min Scan# 2031
Delta R.T. 0.000 min
Lab File: BF134430.D
Acq: 24 Jul 2023 15:28

Tgt Ion:240 Resp: 148098

Ion	Ratio	Lower	Upper
240	100		
120	8.0	6.6	10.0
236	26.2	20.2	30.2

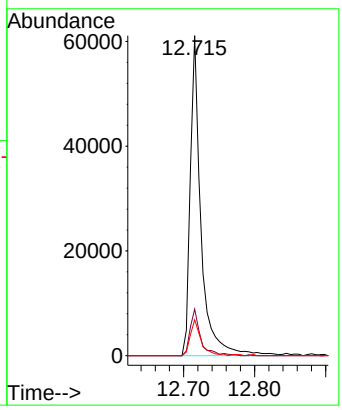




#77
Benzidine
Concen: 20.383 ng
RT: 12.715 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134430.D
Acq: 24 Jul 2023 15:28

Tgt Ion:184 Resp: 6445

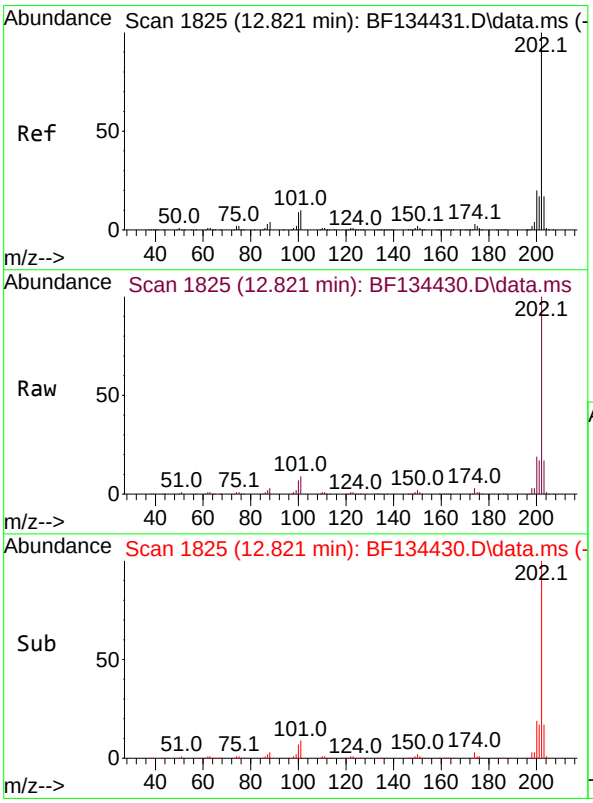
Ion	Ratio	Lower	Upper
184	100		
185	14.5	11.2	16.8
183	11.2	8.6	13.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

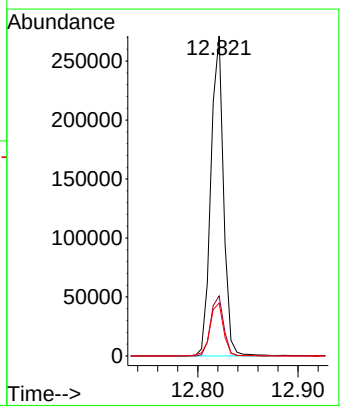
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

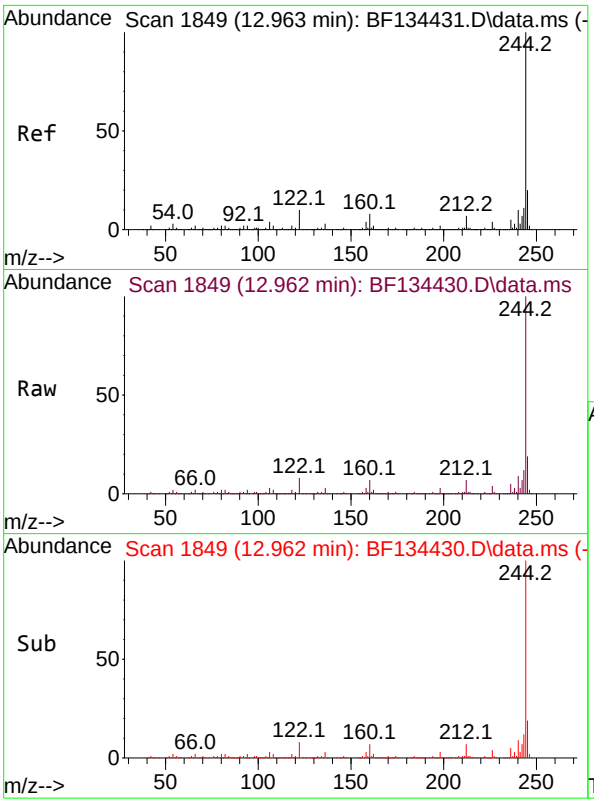


#78
Pyrene
Concen: 20.165 ng
RT: 12.821 min Scan# 1825
Delta R.T. -0.000 min
Lab File: BF134430.D
Acq: 24 Jul 2023 15:28

Tgt Ion:202 Resp: 237451

Ion	Ratio	Lower	Upper
202	100		
200	18.8	15.8	23.8
203	16.6	13.5	20.3

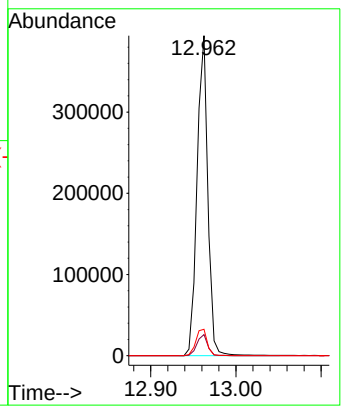




#79
Terphenyl-d14
Concen: 40.717 ng
RT: 12.962 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF134430.D
Acq: 24 Jul 2023 15:28

Tgt Ion:244 Resp: 34543

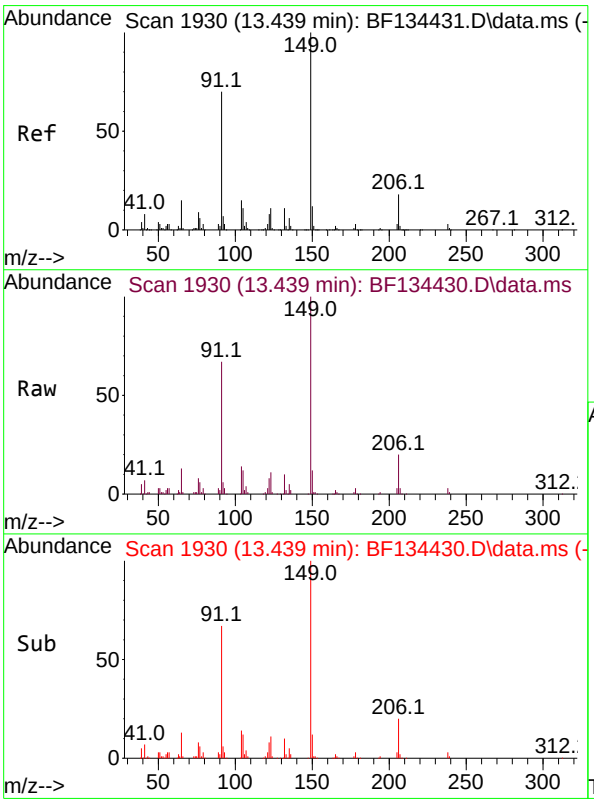
Ion	Ratio	Lower	Upper
244	100		
212	6.6	5.6	8.4
122	8.3	8.0	12.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

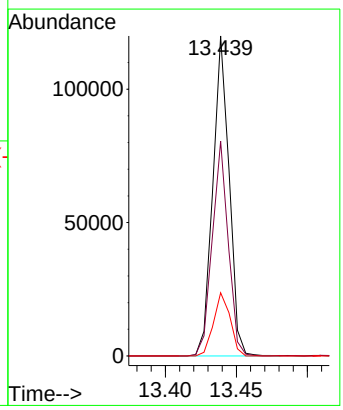
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

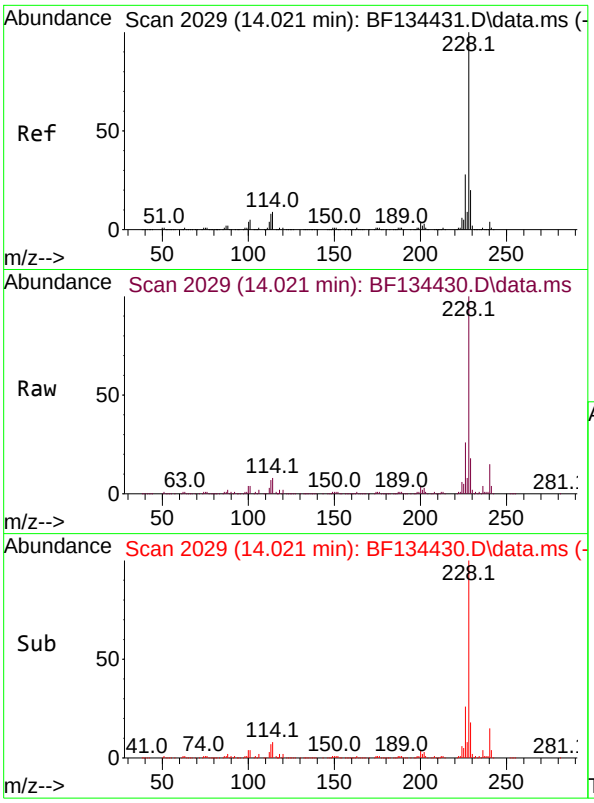


#80
Butylbenzylphthalate
Concen: 20.297 ng
RT: 13.439 min Scan# 1930
Delta R.T. -0.000 min
Lab File: BF134430.D
Acq: 24 Jul 2023 15:28

Tgt Ion:149 Resp: 95741

Ion	Ratio	Lower	Upper
149	100		
91	67.1	55.8	83.6
206	19.8	14.6	21.8

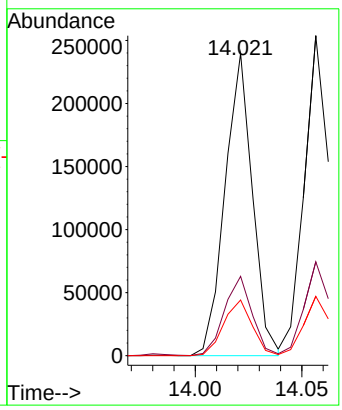




#81
Benzo(a)anthracene
Concen: 20.782 ng
RT: 14.021 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF134430.D
Acq: 24 Jul 2023 15:28

Tgt Ion:228 Resp: 21472

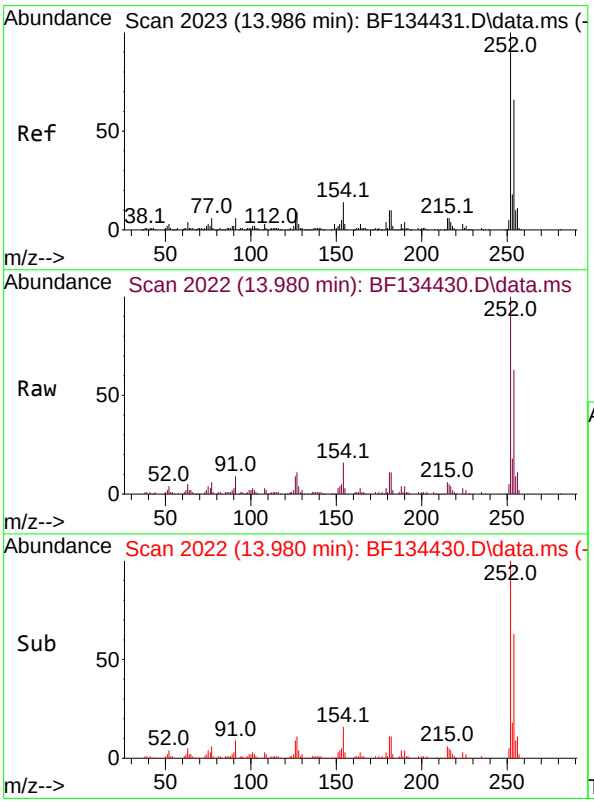
Ion	Ratio	Lower	Upper
228	100		
226	26.2	22.3	33.5
229	18.4	15.8	23.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

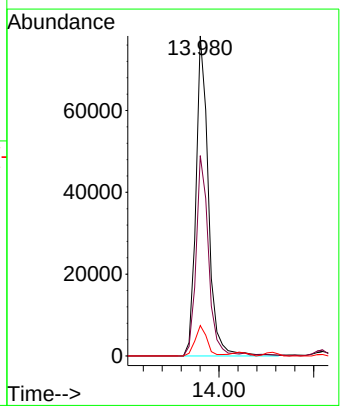
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

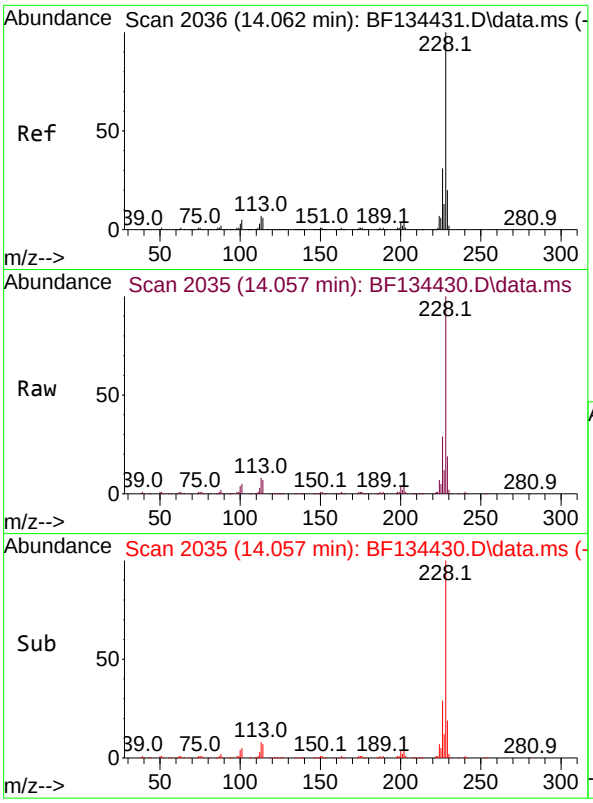


#82
3,3'-Dichlorobenzidine
Concen: 21.921 ng
RT: 13.980 min Scan# 2022
Delta R.T. -0.006 min
Lab File: BF134430.D
Acq: 24 Jul 2023 15:28

Tgt Ion:252 Resp: 71739

Ion	Ratio	Lower	Upper
252	100		
254	62.6	52.7	79.1
126	9.5	7.2	10.8

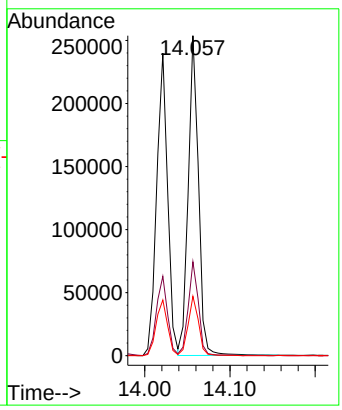




#83
Chrysene
Concen: 21.396 ng
RT: 14.057 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF134430.D
Acq: 24 Jul 2023 15:28

Tgt Ion:228 Resp: 21145

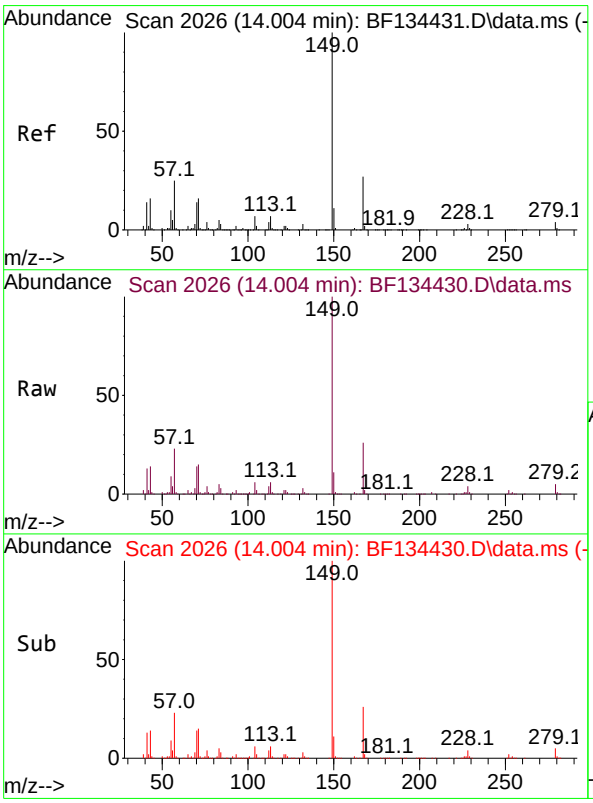
Ion	Ratio	Lower	Upper
228	100		
226	29.3	24.5	36.7
229	18.6	15.8	23.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

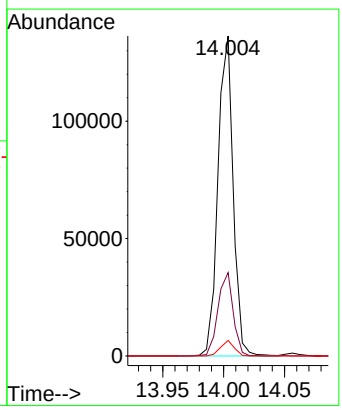
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

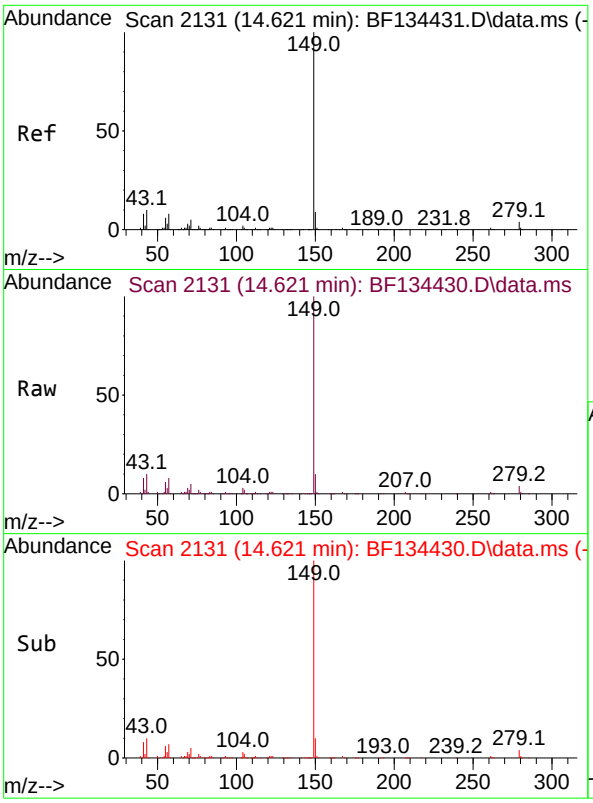


#84
Bis(2-ethylhexyl)phthalate
Concen: 20.686 ng
RT: 14.004 min Scan# 2026
Delta R.T. -0.000 min
Lab File: BF134430.D
Acq: 24 Jul 2023 15:28

Tgt Ion:149 Resp: 118543

Ion	Ratio	Lower	Upper
149	100		
167	26.0	21.6	32.4
279	4.9	3.5	5.3

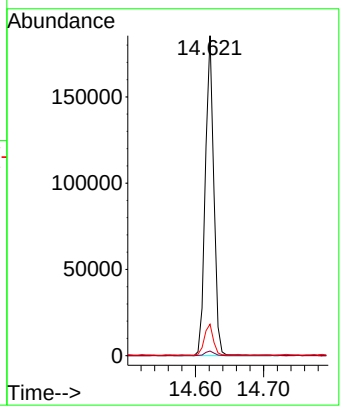




#85
Di-n-octyl phthalate
Concen: 20.143 ng
RT: 14.621 min Scan# 21
Delta R.T. -0.000 min
Lab File: BF134430.D
Acq: 24 Jul 2023 15:28

Tgt Ion:149 Resp: 16041

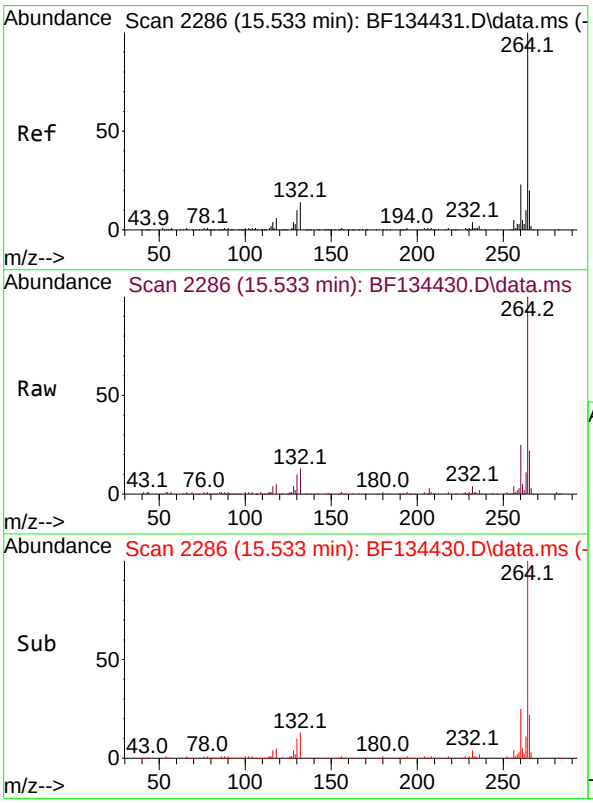
Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.2	1.8
43	10.1	8.1	12.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

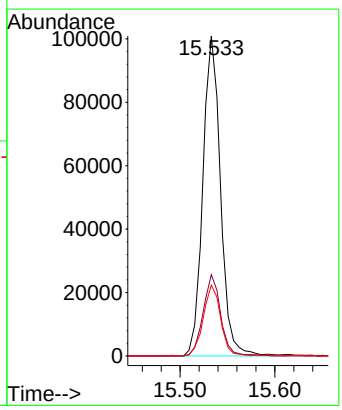
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

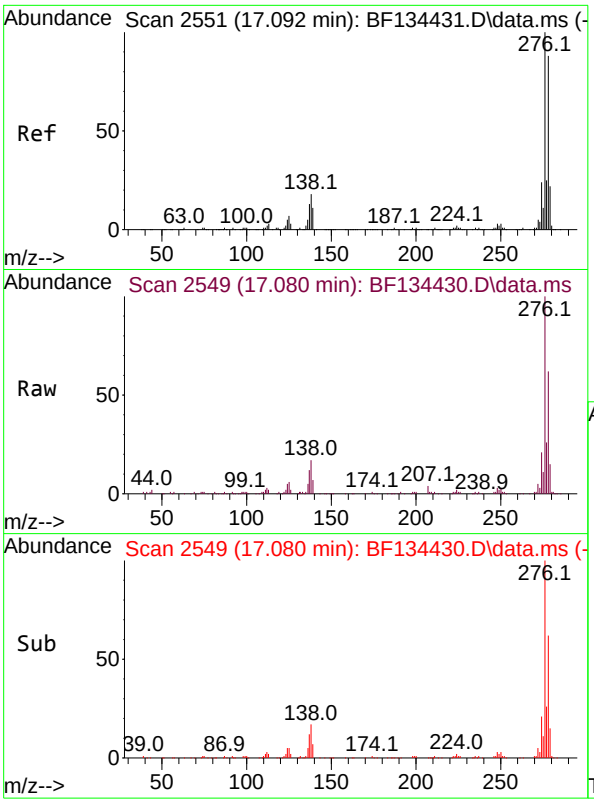


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.533 min Scan# 2286
Delta R.T. -0.000 min
Lab File: BF134430.D
Acq: 24 Jul 2023 15:28

Tgt Ion:264 Resp: 130938

Ion	Ratio	Lower	Upper
264	100		
260	25.4	18.4	27.6
265	22.2	15.8	23.8

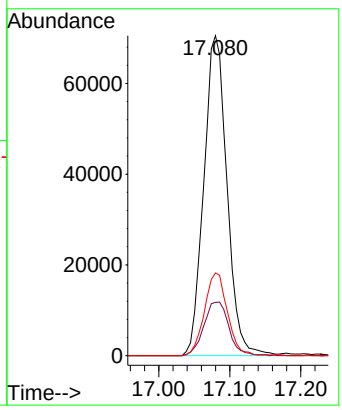




#87
Indeno(1,2,3-cd)pyrene
Concen: 18.710 ng
RT: 17.080 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF134430.D
Acq: 24 Jul 2023 15:28

Tgt Ion:276 Resp: 16005

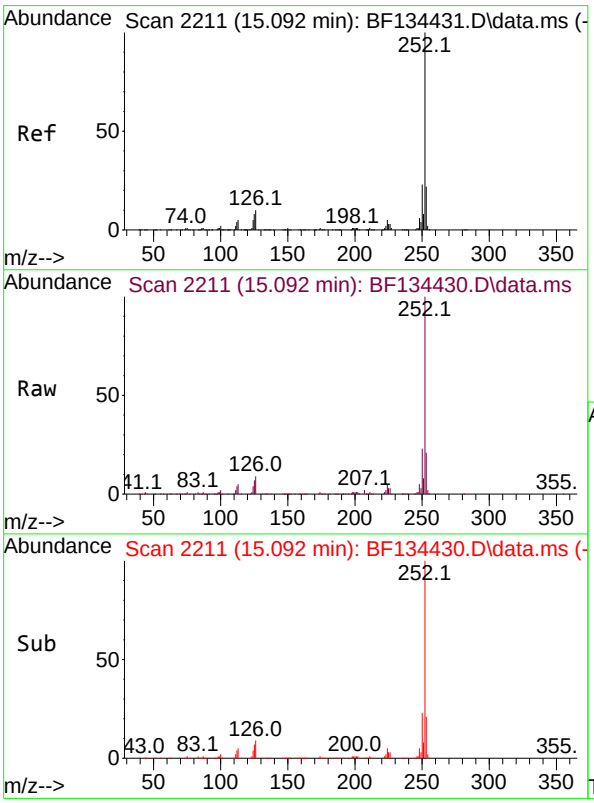
Ion	Ratio	Lower	Upper
276	100		
138	18.2	14.2	21.4
277	25.6	19.9	29.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

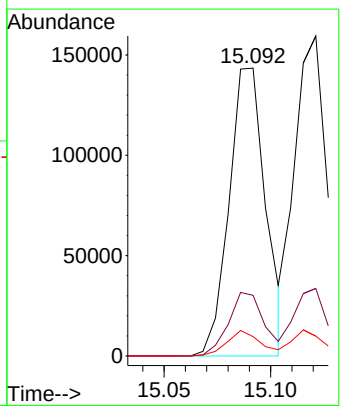
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

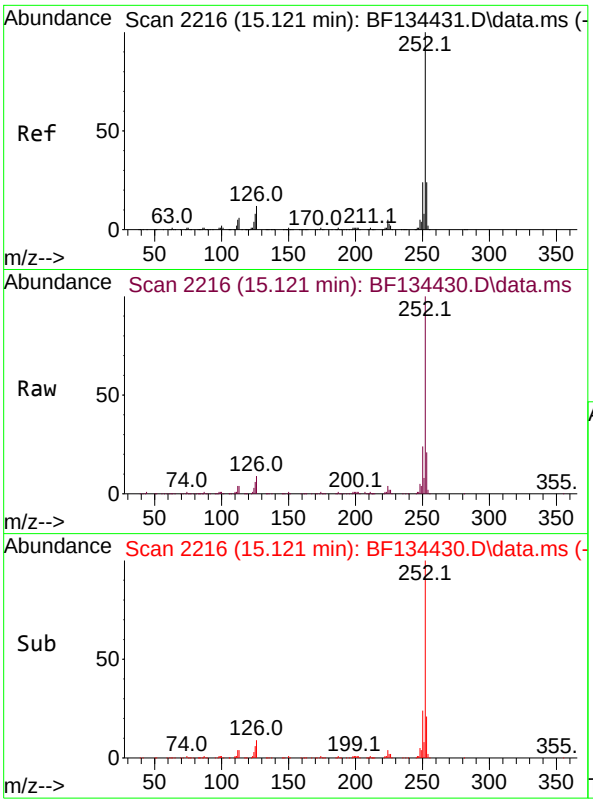


#88
Benzo(b)fluoranthene
Concen: 20.974 ng
RT: 15.092 min Scan# 2211
Delta R.T. -0.000 min
Lab File: BF134430.D
Acq: 24 Jul 2023 15:28

Tgt Ion:252 Resp: 171812

Ion	Ratio	Lower	Upper
252	100		
253	21.1	17.3	25.9
125	6.7	6.0	9.0

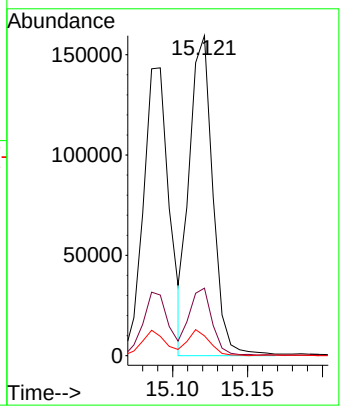




#89
Benzo(k)fluoranthene
Concen: 21.589 ng m
RT: 15.121 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF134430.D
Acq: 24 Jul 2023 15:28

Tgt Ion:252 Resp: 17396

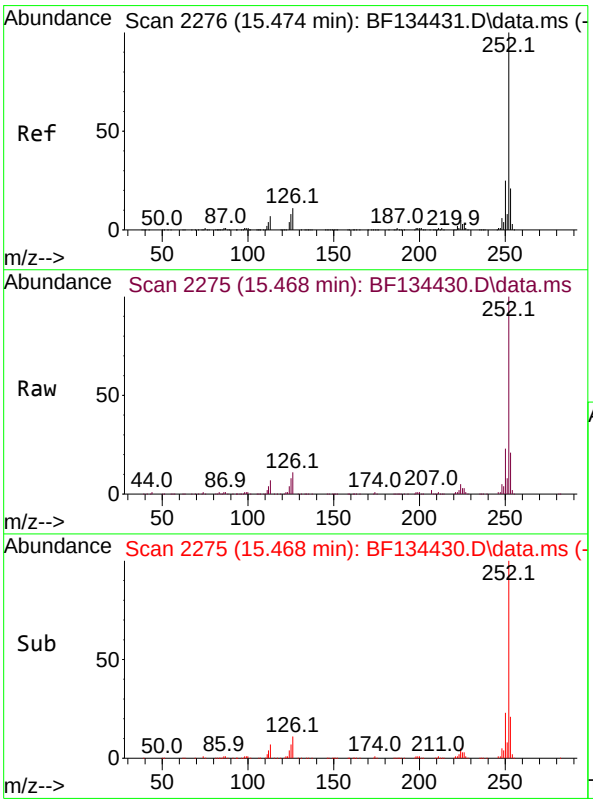
Ion	Ratio	Lower	Upper
252	100		
253	21.1	17.9	26.9
125	6.2	6.3	9.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

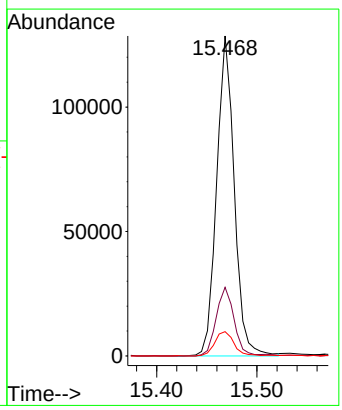
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

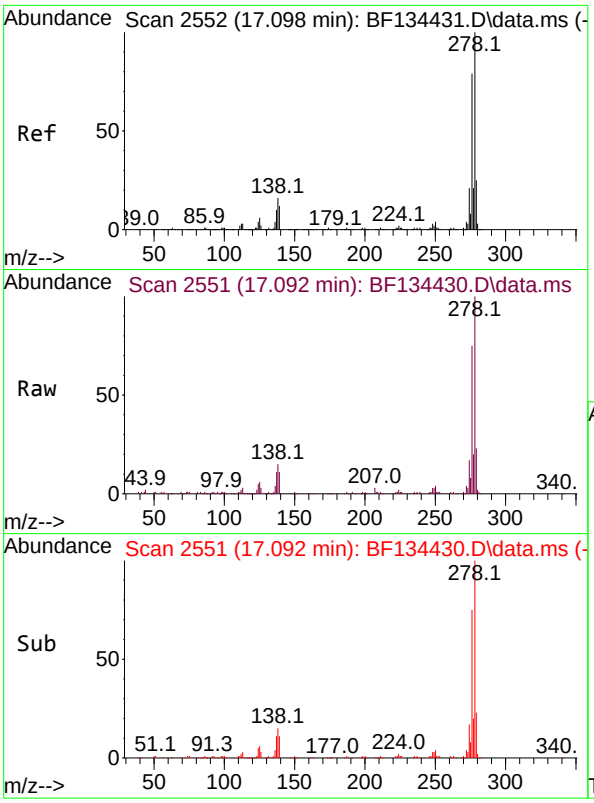


#90
Benzo(a)pyrene
Concen: 20.701 ng
RT: 15.468 min Scan# 2275
Delta R.T. -0.006 min
Lab File: BF134430.D
Acq: 24 Jul 2023 15:28

Tgt Ion:252 Resp: 156739

Ion	Ratio	Lower	Upper
252	100		
253	21.5	17.0	25.4
125	7.6	6.2	9.4

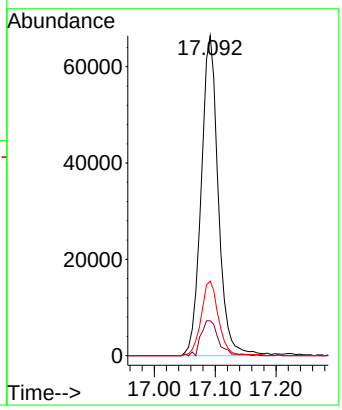




#91
Dibenzo(a,h)anthracene
Concen: 18.793 ng
RT: 17.092 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF134430.D
Acq: 24 Jul 2023 15:28

Tgt Ion:278 Resp: 12983

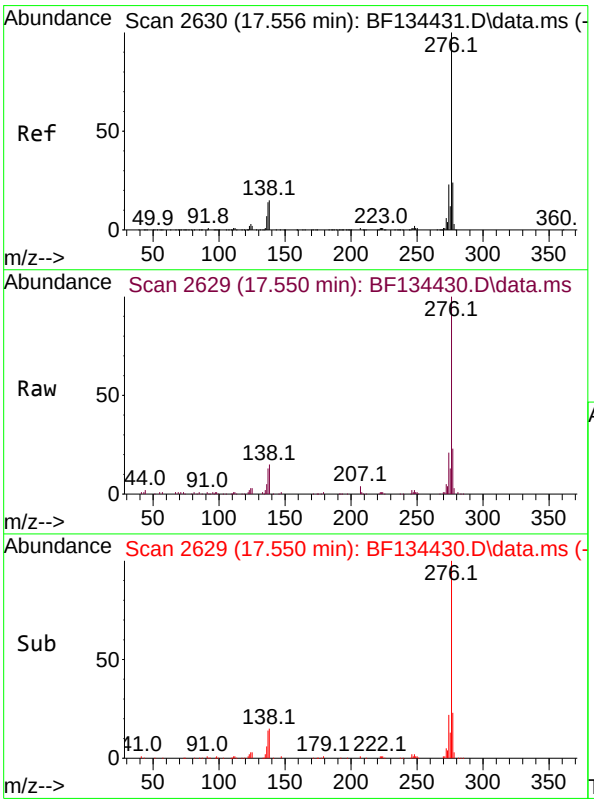
Ion	Ratio	Lower	Upper
278	100		
139	10.9	10.0	15.0
279	23.3	19.7	29.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

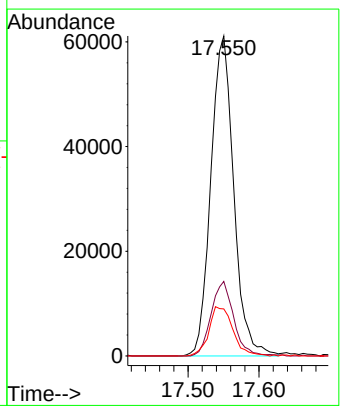
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023



#92
Benzo(g,h,i)perylene
Concen: 19.281 ng
RT: 17.550 min Scan# 2629
Delta R.T. -0.006 min
Lab File: BF134430.D
Acq: 24 Jul 2023 15:28

Tgt Ion:276 Resp: 136765

Ion	Ratio	Lower	Upper
276	100		
277	23.3	19.0	28.6
138	14.7	12.2	18.2



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF072423\
Data File : BF134431.D
Acq On : 24 Jul 2023 16:02
Operator : CG\JU
Sample : SSTDICCC040
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 25 01:42:28 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF072423.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 25 01:30:14 2023
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.833	152	48782	20.000	ng	0.00
21) Naphthalene-d8	8.116	136	174129	20.000	ng	0.00
39) Acenaphthene-d10	9.874	164	97044	20.000	ng	0.00
64) Phenanthrene-d10	11.368	188	197192	20.000	ng	0.00
76) Chrysene-d12	14.033	240	158553	20.000	ng	0.00
86) Perylene-d12	15.533	264	135964	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.469	112	247022	83.663	ng	0.00
7) Phenol-d6	6.481	99	289324	79.980	ng	0.00
23) Nitrobenzene-d5	7.404	82	281286	81.730	ng	0.00
42) 2,4,6-Tribromophenol	10.669	330	113628	82.410	ng	0.00
45) 2-Fluorobiphenyl	9.192	172	603769	81.677	ng	0.00
79) Terphenyl-d14	12.963	244	727546	80.103	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.587	88	49285	39.353	ng	100
3) Pyridine	3.375	79	119595	42.615	ng	100
4) n-Nitrosodimethylamine	3.334	42	67441	40.595	ng	100
6) Aniline	6.504	93	174571	40.945	ng	100
8) 2-Chlorophenol	6.622	128	122137	40.833	ng	100
9) Benzaldehyde	6.392	77	73109	37.739	ng	100
10) Phenol	6.492	94	152950	40.637	ng	100
11) bis(2-Chloroethyl)ether	6.575	93	104096	39.618	ng	100
12) 1,3-Dichlorobenzene	6.775	146	133609	41.539	ng	100
13) 1,4-Dichlorobenzene	6.851	146	135256	40.862	ng	100
14) 1,2-Dichlorobenzene	7.004	146	123913	39.851	ng	100
15) Benzyl Alcohol	6.981	79	118752	42.937	ng	100
16) 2,2'-oxybis(1-Chloropr...	7.110	45	155091	40.082	ng	100
17) 2-Methylphenol	7.092	107	109506	41.050	ng	100
18) Hexachloroethane	7.339	117	50569	39.765	ng	100
19) n-Nitroso-di-n-propyla...	7.245	70	90566	40.216	ng	100
20) 3+4-Methylphenols	7.245	107	138842	40.651	ng	100
22) Acetophenone	7.245	105	175328	40.486	ng	100
24) Nitrobenzene	7.422	77	136616	39.914	ng	100
25) Isophorone	7.657	82	232473	40.529	ng	100
26) 2-Nitrophenol	7.733	139	64817	41.173	ng	100
27) 2,4-Dimethylphenol	7.769	122	100174	40.322	ng	100
28) bis(2-Chloroethoxy)met...	7.863	93	128131	40.133	ng	100
29) 2,4-Dichlorophenol	7.980	162	101718	40.958	ng	100
30) 1,2,4-Trichlorobenzene	8.057	180	109627	40.923	ng	100
31) Naphthalene	8.139	128	352035	40.622	ng	100
32) Benzoic acid	7.892	122	70667	43.076	ng	100
33) 4-Chloroaniline	8.192	127	146901	41.009	ng	100
34) Hexachlorobutadiene	8.245	225	73678	41.055	ng	100
35) Caprolactam	8.563	113	31650	41.759	ng	100
36) 4-Chloro-3-methylphenol	8.675	107	117065	40.852	ng	100
37) 2-Methylnaphthalene	8.827	142	244434	40.594	ng	100
38) 1-Methylnaphthalene	8.927	142	226216	40.497	ng	100
40) 1,2,4,5-Tetrachloroben...	8.992	216	113039	36.757	ng	100
41) Hexachlorocyclopentadiene	8.975	237	29371	38.466	ng	100
43) 2,4,6-Trichlorophenol	9.110	196	80920	41.016	ng	100

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF072423\
Data File : BF134431.D
Acq On : 24 Jul 2023 16:02
Operator : CG\JU
Sample : SSTDICCC040
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

Quant Time: Jul 25 01:42:28 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF072423.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 25 01:30:14 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.157	196	95408	41.507	ng	100
46) 1,1'-Biphenyl	9.292	154	326287	40.795	ng	100
47) 2-Chloronaphthalene	9.322	162	239450	40.609	ng	100
48) 2-Nitroaniline	9.422	65	89537	42.163	ng	100
49) Acenaphthylene	9.733	152	409944	41.153	ng	100
50) Dimethylphthalate	9.598	163	295635	41.095	ng	100
51) 2,6-Dinitrotoluene	9.663	165	65771	41.667	ng	100
52) Acenaphthene	9.910	154	242396	41.191	ng	100
53) 3-Nitroaniline	9.839	138	74991	41.436	ng	100
54) 2,4-Dinitrophenol	9.951	184	28948	38.654	ng	100
55) Dibenzofuran	10.080	168	370664	40.925	ng	100
56) 4-Nitrophenol	10.004	139	39739	41.175	ng	100
57) 2,4-Dinitrotoluene	10.074	165	89554	42.239	ng	100
58) Fluorene	10.427	166	300002	41.059	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.204	232	72632m	40.972	ng	
60) Diethylphthalate	10.298	149	302783	40.653	ng	100
61) 4-Chlorophenyl-phenyle...	10.416	204	144109	41.288	ng	100
62) 4-Nitroaniline	10.457	138	77993	42.020	ng	100
63) Azobenzene	10.580	77	279798	40.813	ng	100
65) 4,6-Dinitro-2-methylph...	10.486	198	47755	42.218	ng	100
66) n-Nitrosodiphenylamine	10.539	169	257495	41.043	ng	100
67) 4-Bromophenyl-phenylether	10.910	248	87569	40.531	ng	100
68) Hexachlorobenzene	10.974	284	98592	40.524	ng	100
69) Atrazine	11.069	200	73222	41.862	ng	100
70) Pentachlorophenol	11.174	266	42525	41.650	ng	100
71) Phenanthrene	11.392	178	421531	40.914	ng	100
72) Anthracene	11.445	178	438318	41.219	ng	100
73) Carbazole	11.604	167	406651	40.610	ng	100
74) Di-n-butylphthalate	11.933	149	472250	41.083	ng	100
75) Fluoranthene	12.592	202	484848	40.379	ng	100
77) Benzidine	12.715	184	139119	41.093	ng	100
78) Pyrene	12.821	202	505419	40.091	ng	100
80) Butylbenzylphthalate	13.439	149	206915	40.974	ng	100
81) Benzo(a)anthracene	14.021	228	437987	39.594	ng	100
82) 3,3'-Dichlorobenzidine	13.986	252	139770	39.893	ng	100
83) Chrysene	14.062	228	427128	40.369	ng	100
84) Bis(2-ethylhexyl)phtha...	14.004	149	249982	40.747	ng	100
85) Di-n-octyl phthalate	14.621	149	346329	40.621	ng	100
87) Indeno(1,2,3-cd)pyrene	17.092	276	372830	41.973	ng	100
88) Benzo(b)fluoranthene	15.092	252	330796	38.890	ng	100
89) Benzo(k)fluoranthene	15.121	252	349237	41.739	ng	100
90) Benzo(a)pyrene	15.474	252	318740	40.541	ng	100
91) Dibenzo(a,h)anthracene	17.098	278	299140	41.701	ng	100
92) Benzo(g,h,i)perylene	17.556	276	305967	41.540	ng	100

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

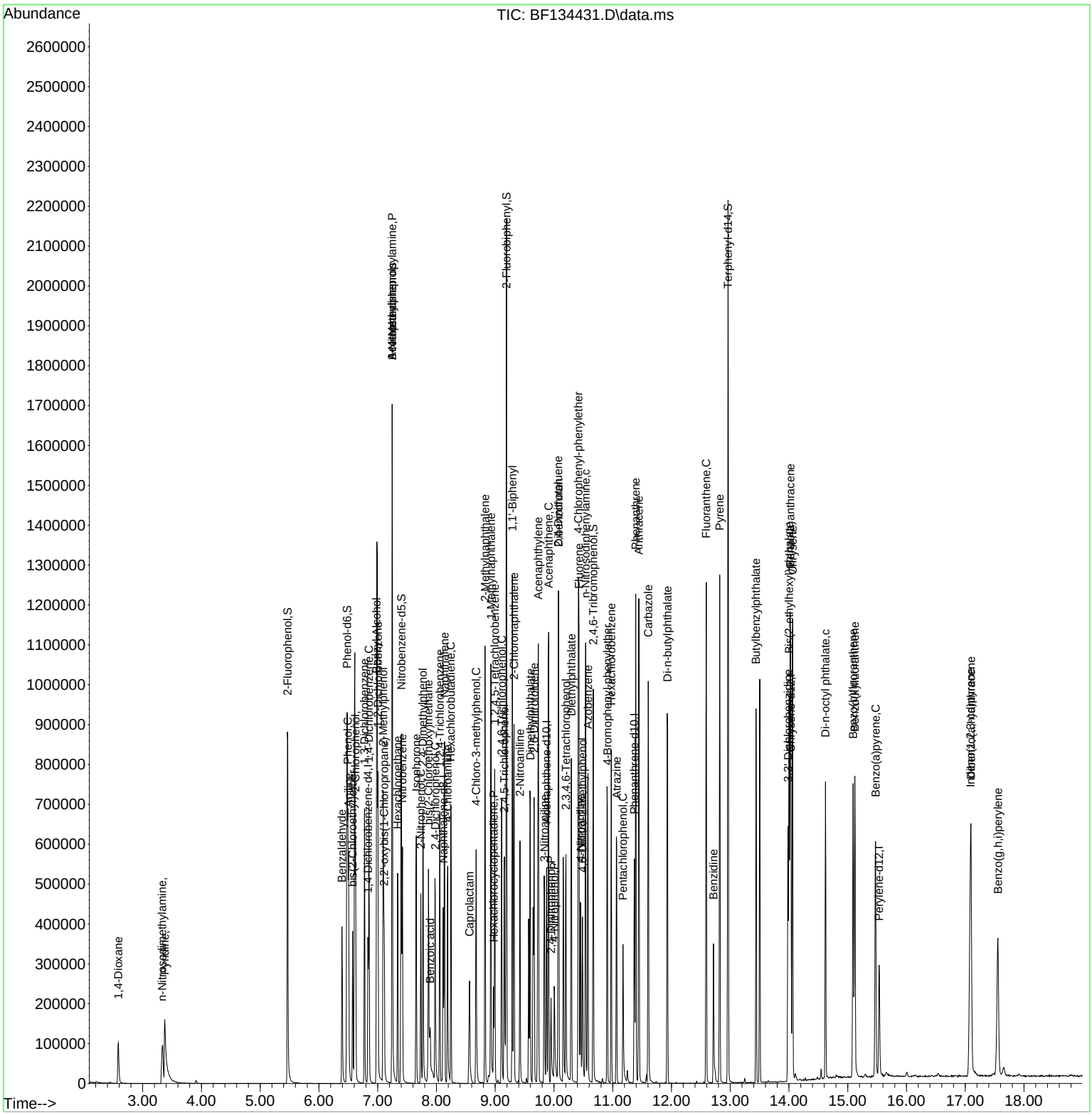
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF072423\
Data File : BF134431.D
Acq On : 24 Jul 2023 16:02
Operator : CG\JU
Sample : SSTDICCC040
Misc :
ALS Vial : 7 Sample Multiplier: 1

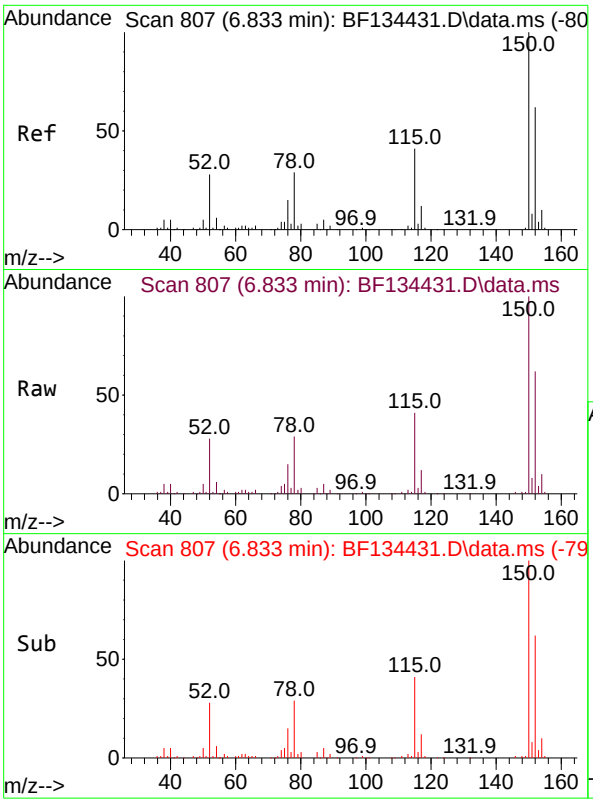
Quant Time: Jul 25 01:42:28 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF072423.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 25 01:30:14 2023
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

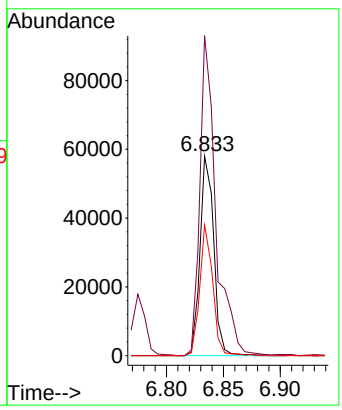




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.833 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF134431.D
Acq: 24 Jul 2023 16:02

Tgt Ion:152 Resp: 4878

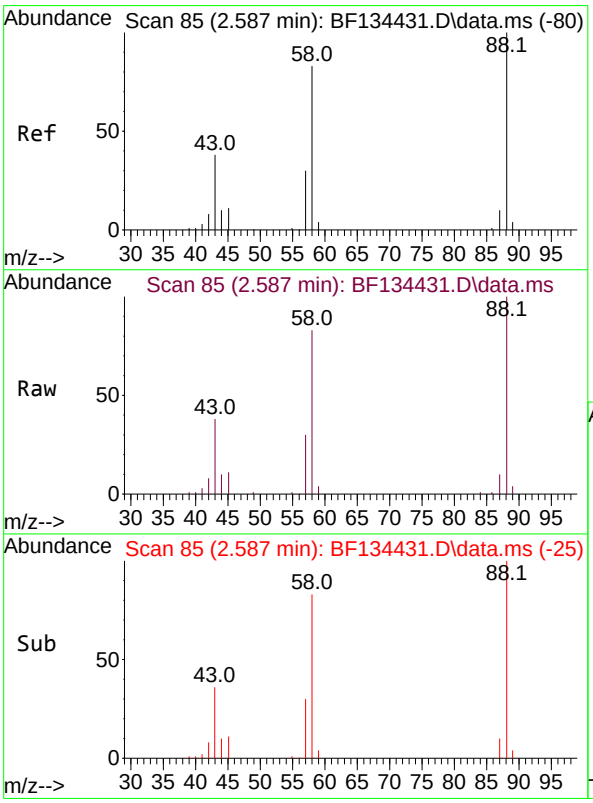
Ion	Ratio	Lower	Upper
152	100		
150	160.4	128.3	192.5
115	65.5	52.4	78.6



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

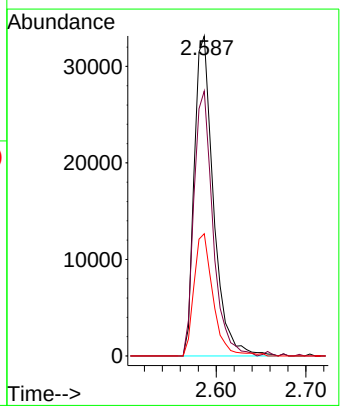
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

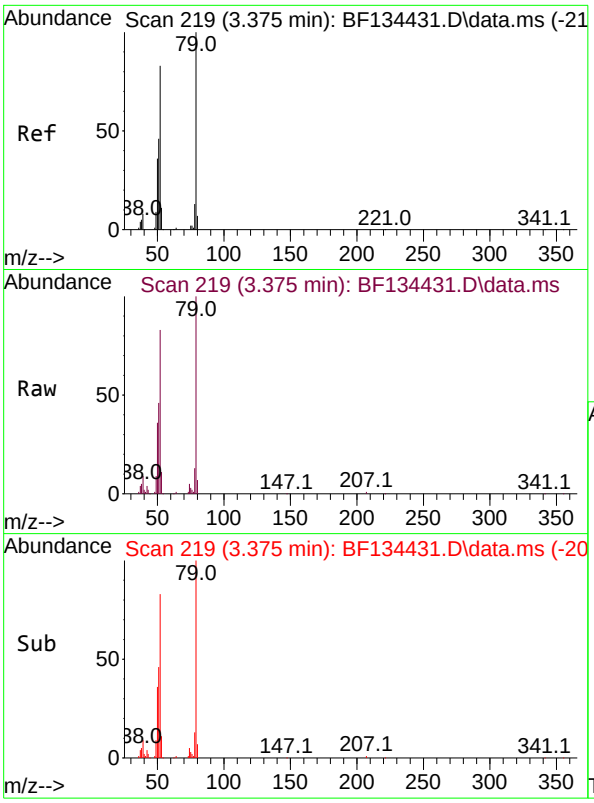


#2
1,4-Dioxane
Concen: 39.353 ng
RT: 2.587 min Scan# 85
Delta R.T. 0.000 min
Lab File: BF134431.D
Acq: 24 Jul 2023 16:02

Tgt Ion: 88 Resp: 49285

Ion	Ratio	Lower	Upper
88	100		
58	81.4	65.1	97.7
43	37.9	30.3	45.5

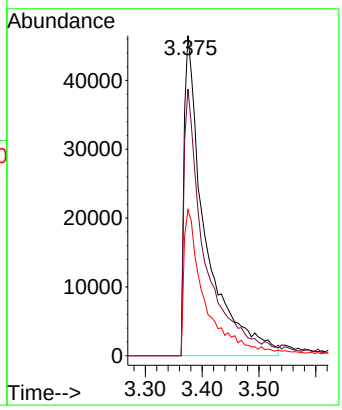




#3
Pyridine
Concen: 42.615 ng
RT: 3.375 min Scan# 21
Delta R.T. 0.000 min
Lab File: BF134431.D
Acq: 24 Jul 2023 16:02

Tgt Ion: 79 Resp: 11959

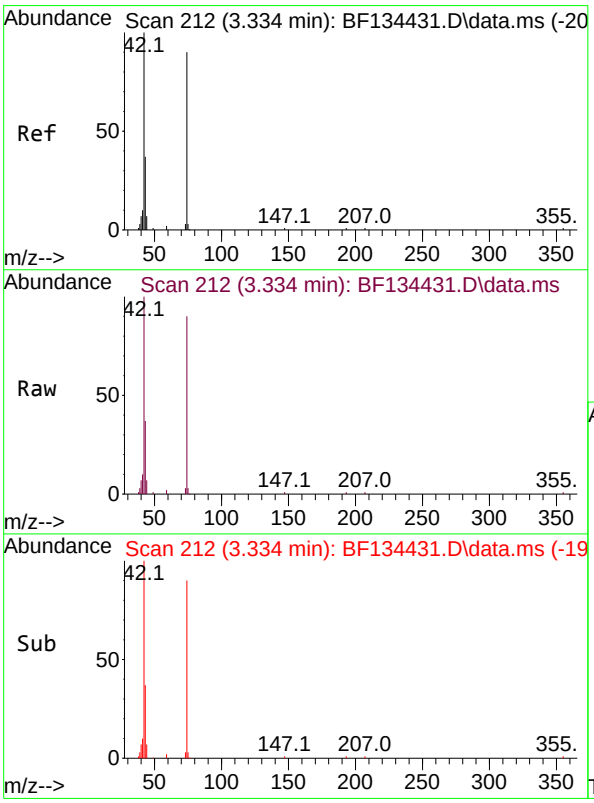
Ion	Ratio	Lower	Upper
79	100		
52	83.3	66.6	100.0
51	45.6	36.5	54.7



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

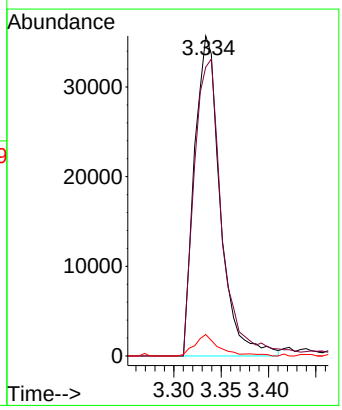
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

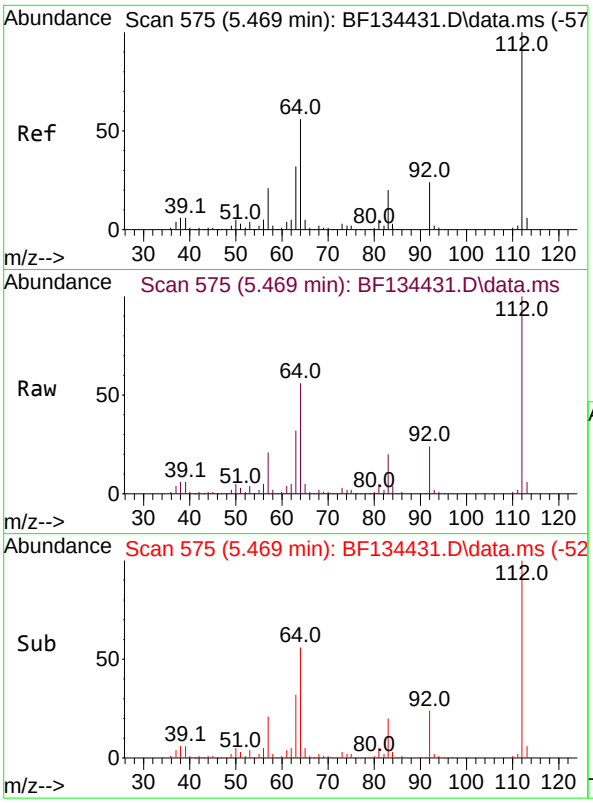


#4
n-Nitrosodimethylamine
Concen: 40.595 ng
RT: 3.334 min Scan# 212
Delta R.T. 0.000 min
Lab File: BF134431.D
Acq: 24 Jul 2023 16:02

Tgt Ion: 42 Resp: 67441

Ion	Ratio	Lower	Upper
42	100		
74	90.3	72.2	108.4
44	6.7	5.4	8.0

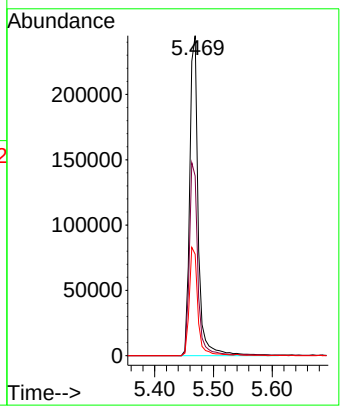




#5
2-Fluorophenol
Concen: 83.663 ng
RT: 5.469 min Scan# 5
Delta R.T. 0.000 min
Lab File: BF134431.D
Acq: 24 Jul 2023 16:02

Tgt Ion:112 Resp: 24702

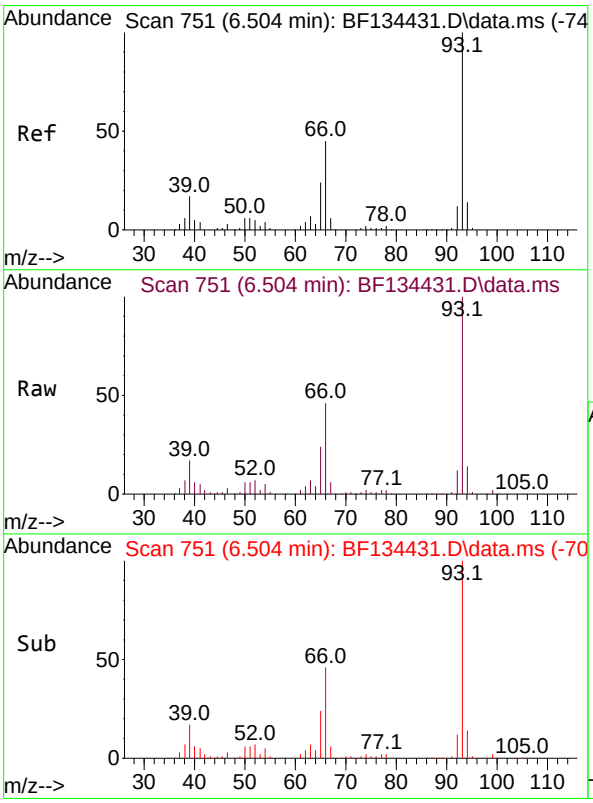
Ion	Ratio	Lower	Upper
112	100		
64	56.1	44.9	67.3
63	31.7	25.4	38.0



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

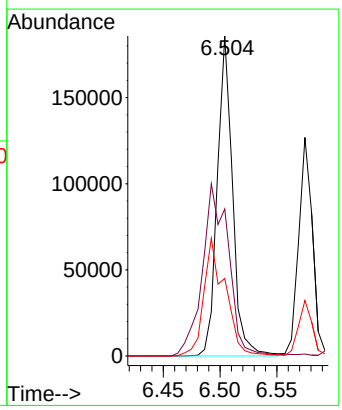
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

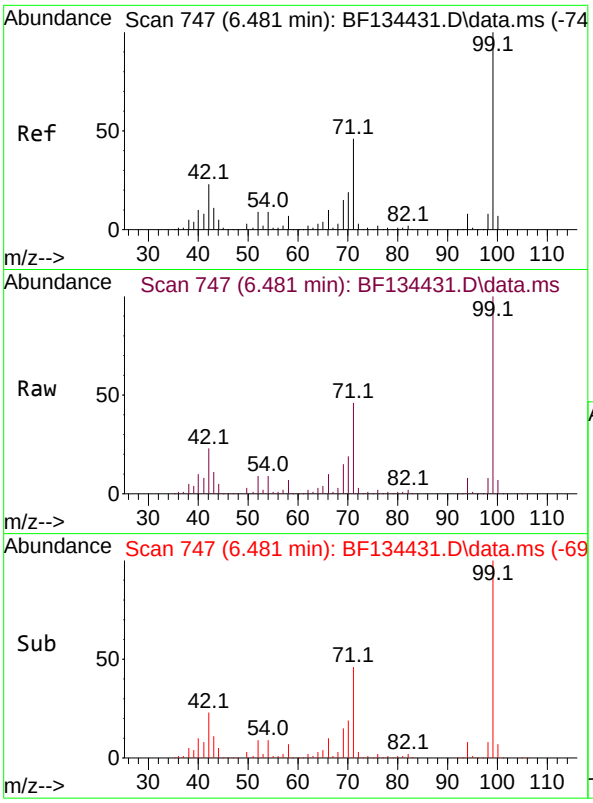


#6
Aniline
Concen: 40.945 ng
RT: 6.504 min Scan# 751
Delta R.T. 0.000 min
Lab File: BF134431.D
Acq: 24 Jul 2023 16:02

Tgt Ion: 93 Resp: 174571

Ion	Ratio	Lower	Upper
93	100		
66	46.0	36.8	55.2
65	24.2	19.4	29.0

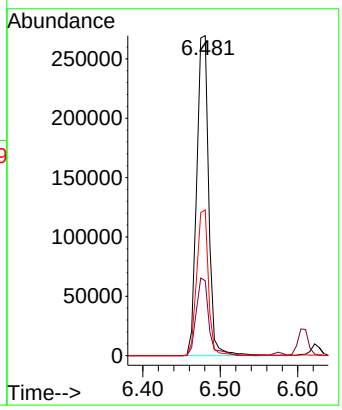




#7
Phenol-d6
Concen: 79.980 ng
RT: 6.481 min Scan# 74
Delta R.T. 0.000 min
Lab File: BF134431.D
Acq: 24 Jul 2023 16:02

Tgt Ion: 99 Resp: 28932

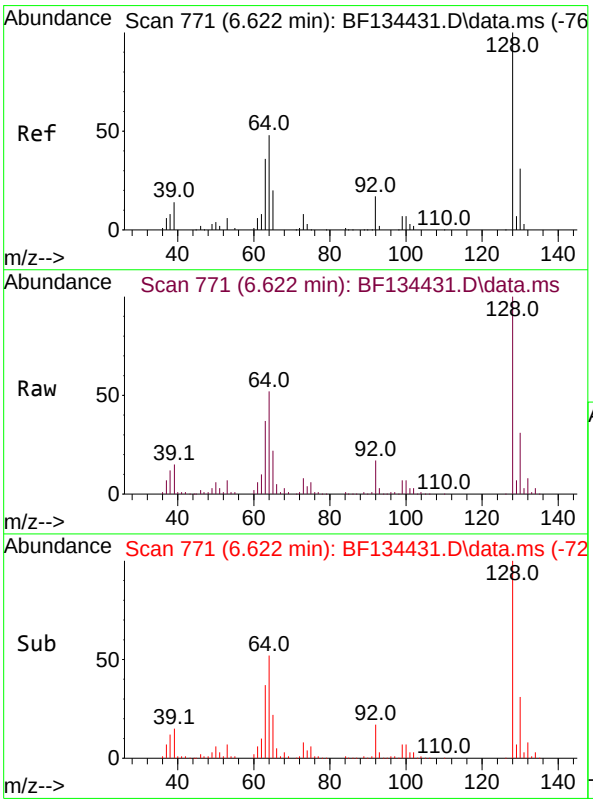
Ion	Ratio	Lower	Upper
99	100		
42	23.4	18.7	28.1
71	45.5	36.4	54.6



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

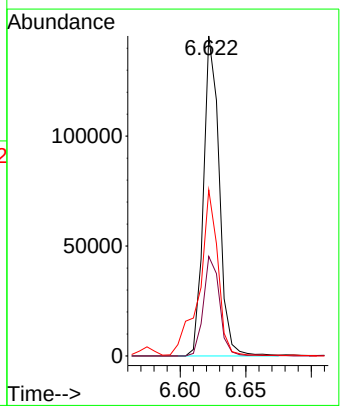
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

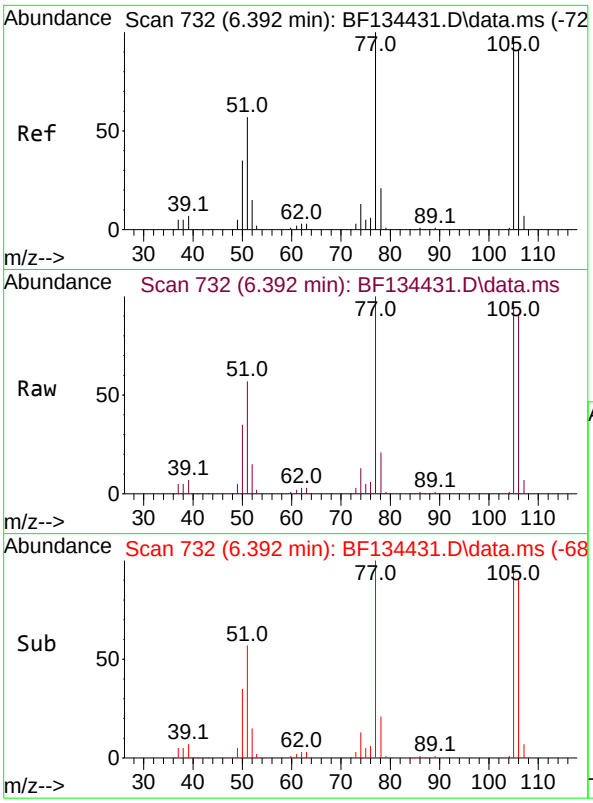


#8
2-Chlorophenol
Concen: 40.833 ng
RT: 6.622 min Scan# 771
Delta R.T. 0.000 min
Lab File: BF134431.D
Acq: 24 Jul 2023 16:02

Tgt Ion:128 Resp: 122137

Ion	Ratio	Lower	Upper
128	100		
130	31.1	11.1	51.1
64	51.9	31.9	71.9

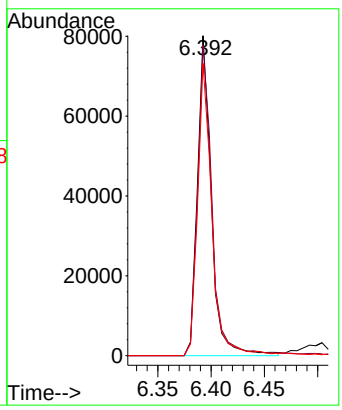




#9
Benzaldehyde
Concen: 37.739 ng
RT: 6.392 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF134431.D
Acq: 24 Jul 2023 16:02

Tgt Ion: 77 Resp: 7310

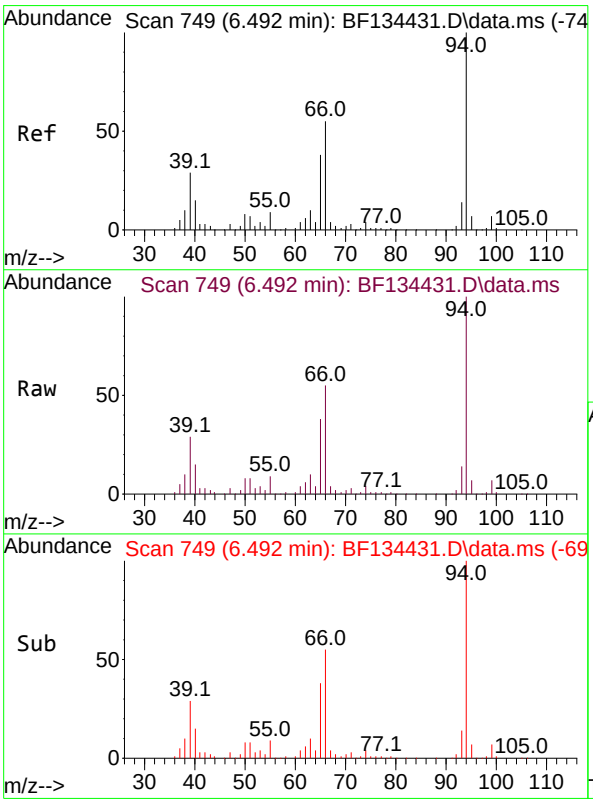
Ion	Ratio	Lower	Upper
77	100		
105	97.1	77.1	117.1
106	91.4	71.4	111.4



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

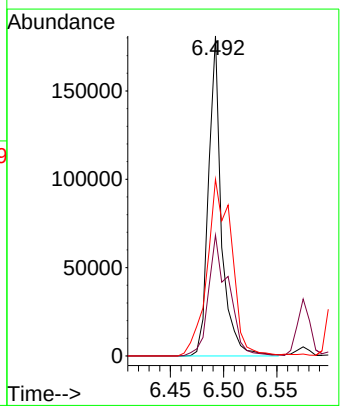
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

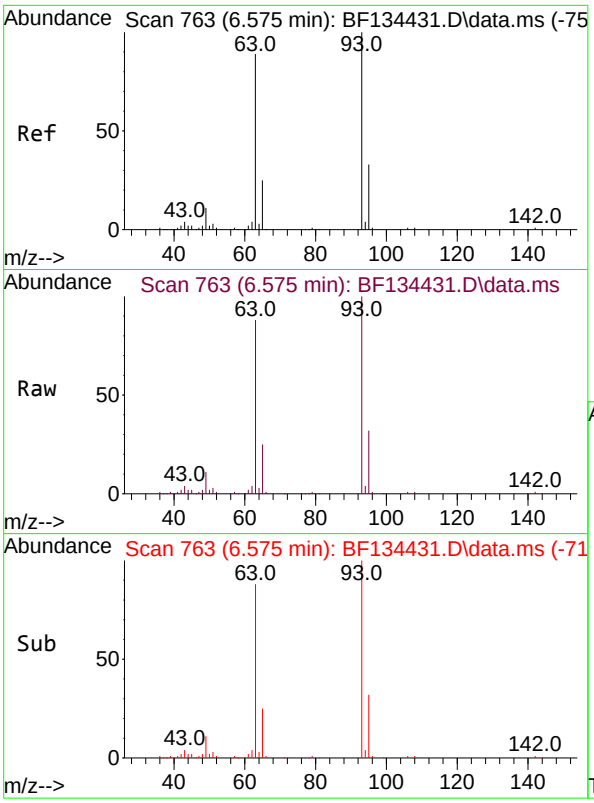


#10
Phenol
Concen: 40.637 ng
RT: 6.492 min Scan# 749
Delta R.T. 0.000 min
Lab File: BF134431.D
Acq: 24 Jul 2023 16:02

Tgt Ion: 94 Resp: 152950

Ion	Ratio	Lower	Upper
94	100		
65	37.8	17.8	57.8
66	55.2	35.2	75.2

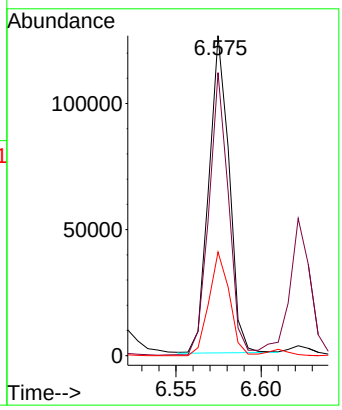




#11
bis(2-Chloroethyl)ether
Concen: 39.618 ng
RT: 6.575 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF134431.D
Acq: 24 Jul 2023 16:02

Tgt Ion: 93 Resp: 10409

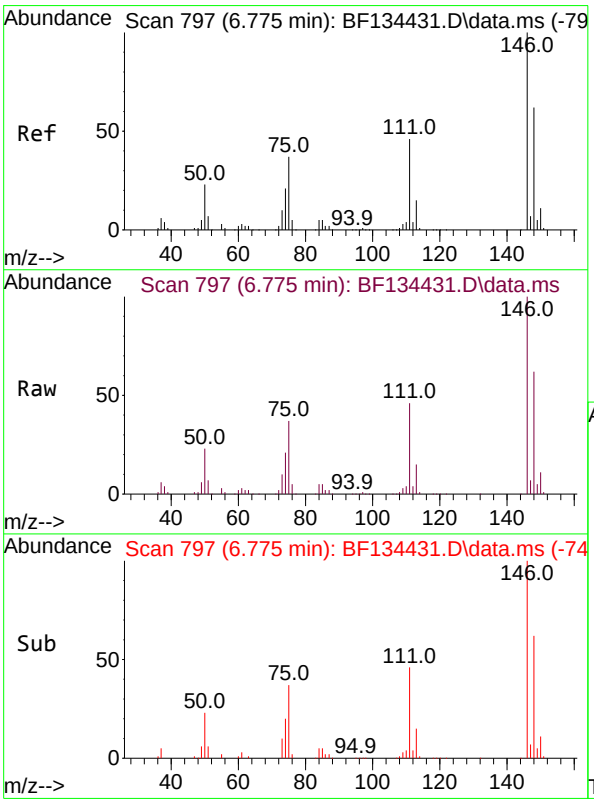
Ion	Ratio	Lower	Upper
93	100		
63	88.4	68.4	108.4
95	32.4	12.4	52.4



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

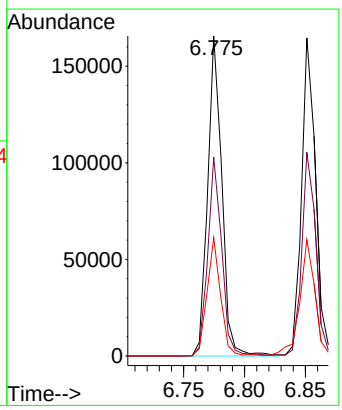
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

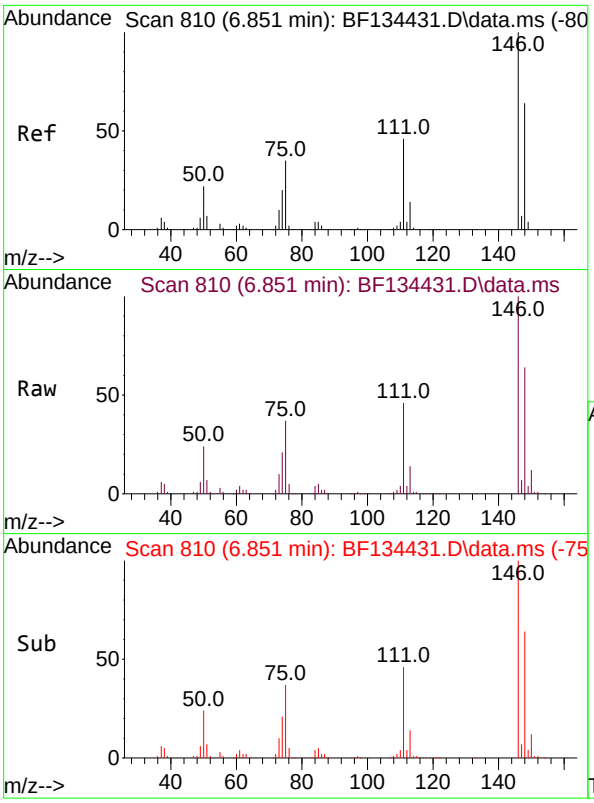


#12
1,3-Dichlorobenzene
Concen: 41.539 ng
RT: 6.775 min Scan# 797
Delta R.T. 0.000 min
Lab File: BF134431.D
Acq: 24 Jul 2023 16:02

Tgt Ion:146 Resp: 133609

Ion	Ratio	Lower	Upper
146	100		
148	62.1	49.7	74.5
75	36.9	29.5	44.3

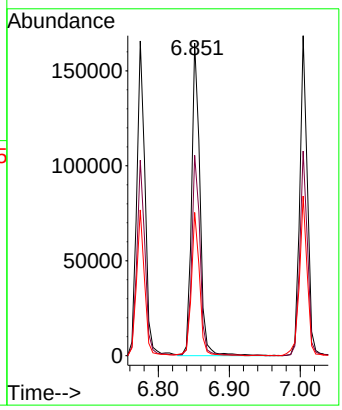




#13
1,4-Dichlorobenzene
Concen: 40.862 ng
RT: 6.851 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF134431.D
Acq: 24 Jul 2023 16:02

Tgt Ion:146 Resp: 13525

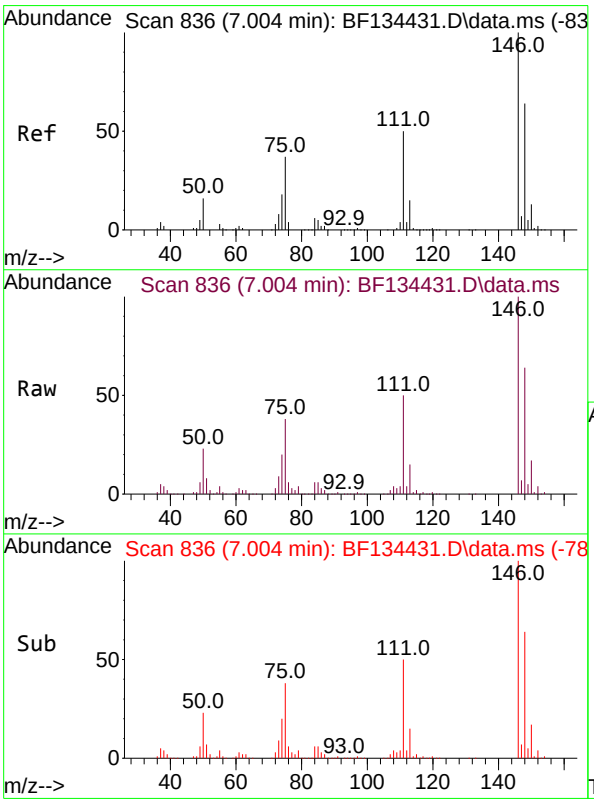
Ion	Ratio	Lower	Upper
146	100		
148	64.1	51.3	76.9
111	45.8	36.6	55.0



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

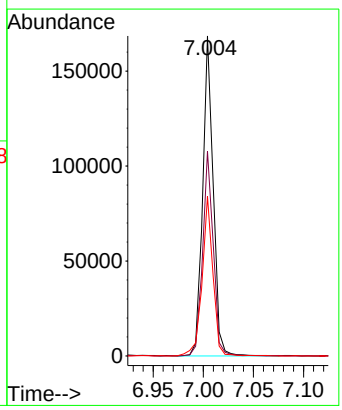
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

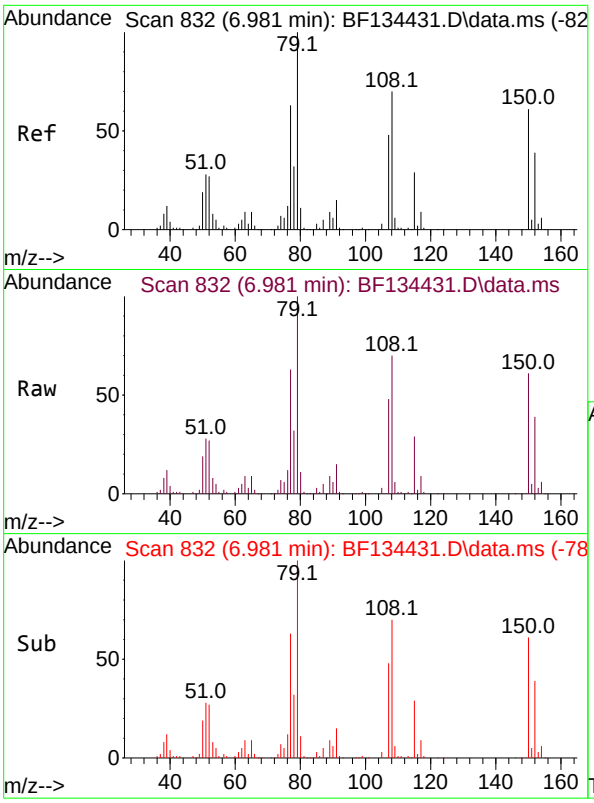


#14
1,2-Dichlorobenzene
Concen: 39.851 ng
RT: 7.004 min Scan# 836
Delta R.T. 0.000 min
Lab File: BF134431.D
Acq: 24 Jul 2023 16:02

Tgt Ion:146 Resp: 123913

Ion	Ratio	Lower	Upper
146	100		
148	64.0	51.2	76.8
111	49.9	39.9	59.9

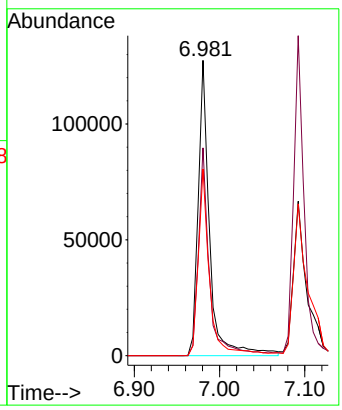




#15
Benzyl Alcohol
Concen: 42.937 ng
RT: 6.981 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF134431.D
Acq: 24 Jul 2023 16:02

Tgt Ion: 79 Resp: 11875

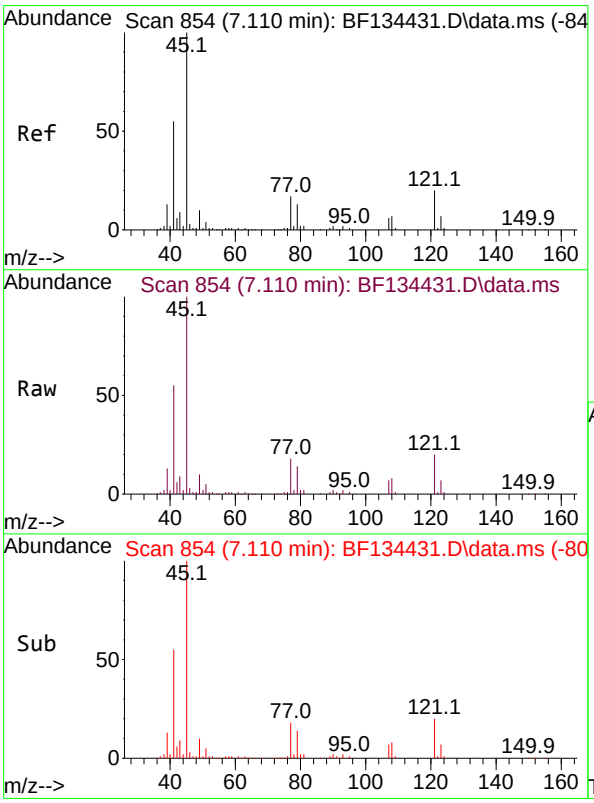
Ion	Ratio	Lower	Upper
79	100		
108	70.4	56.3	84.5
77	63.3	50.6	76.0



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

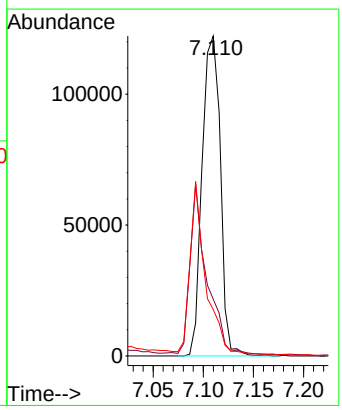
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

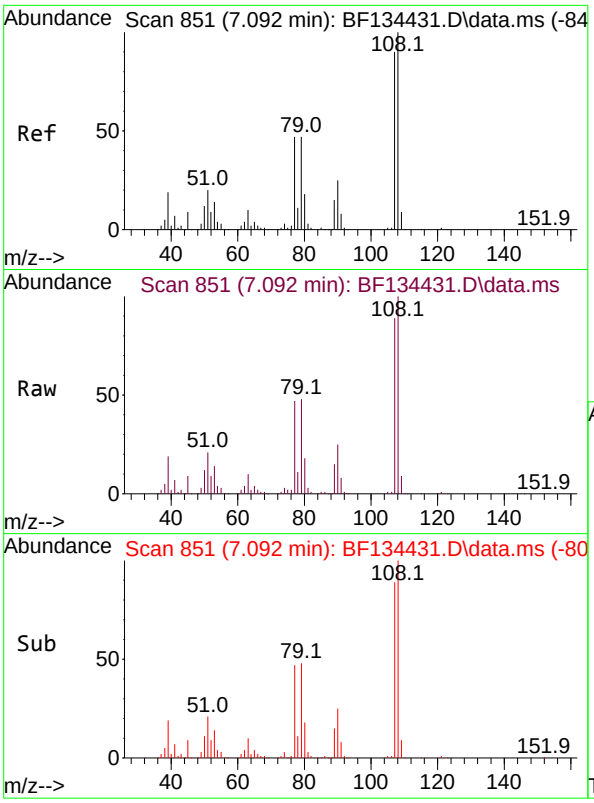


#16
2,2'-oxybis(1-Chloropropane)
Concen: 40.082 ng
RT: 7.110 min Scan# 854
Delta R.T. 0.000 min
Lab File: BF134431.D
Acq: 24 Jul 2023 16:02

Tgt Ion: 45 Resp: 155091

Ion	Ratio	Lower	Upper
45	100		
77	17.8	0.0	37.8
79	14.5	0.0	34.5

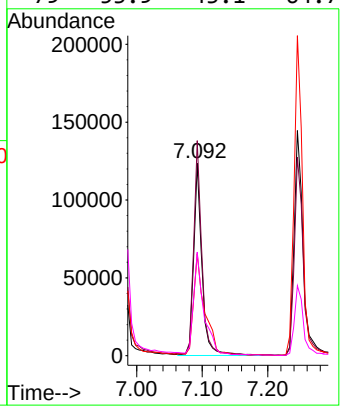




#17
2-Methylphenol
Concen: 41.050 ng
RT: 7.092 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF134431.D
Acq: 24 Jul 2023 16:02

Tgt Ion:107 Resp: 10950

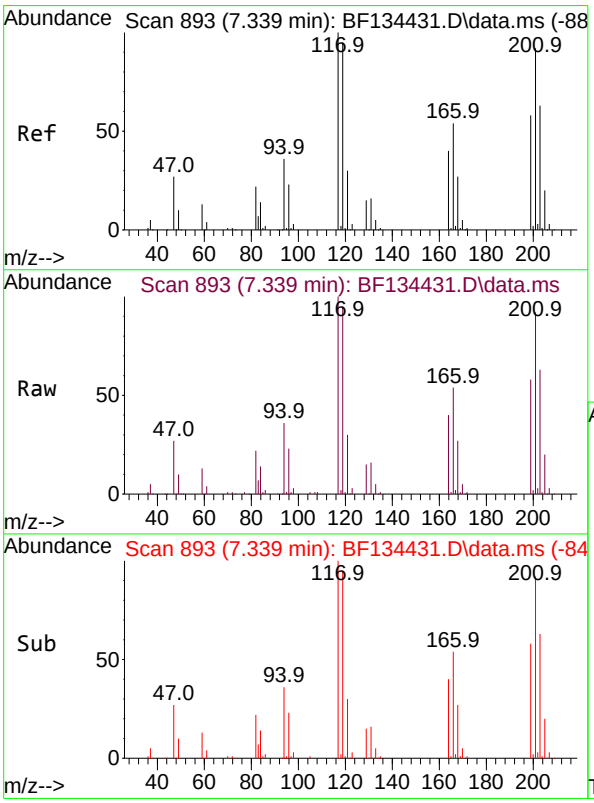
Ion	Ratio	Lower	Upper
107	100		
108	111.8	89.4	134.2
77	53.0	42.4	63.6
79	53.9	43.1	64.7



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

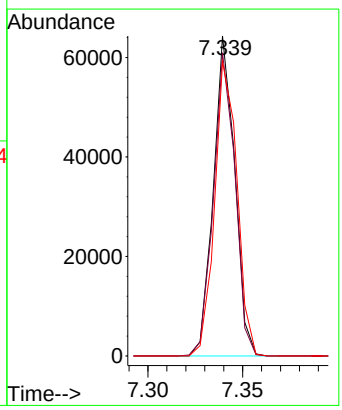
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

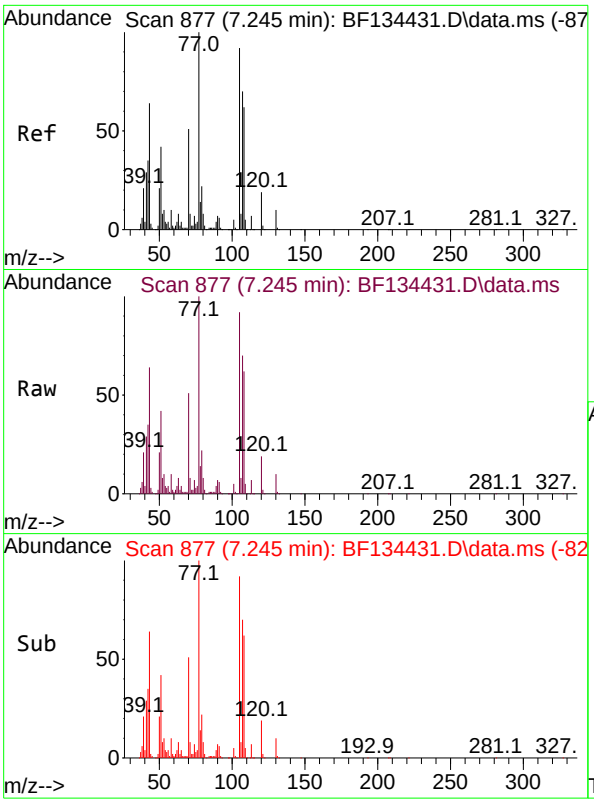


#18
Hexachloroethane
Concen: 39.765 ng
RT: 7.339 min Scan# 893
Delta R.T. 0.000 min
Lab File: BF134431.D
Acq: 24 Jul 2023 16:02

Tgt Ion:117 Resp: 50569

Ion	Ratio	Lower	Upper
117	100		
119	94.8	75.8	113.8
201	92.0	73.6	110.4

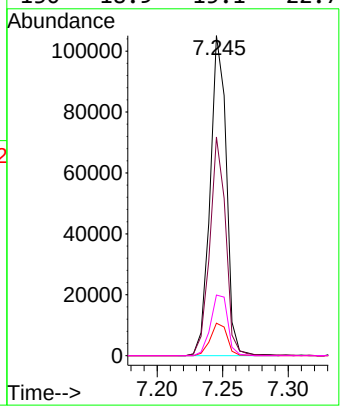




#19
n-Nitroso-di-n-propylamine
Concen: 40.216 ng
RT: 7.245 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF134431.D
Acq: 24 Jul 2023 16:02

Tgt Ion: 70 Resp: 9056

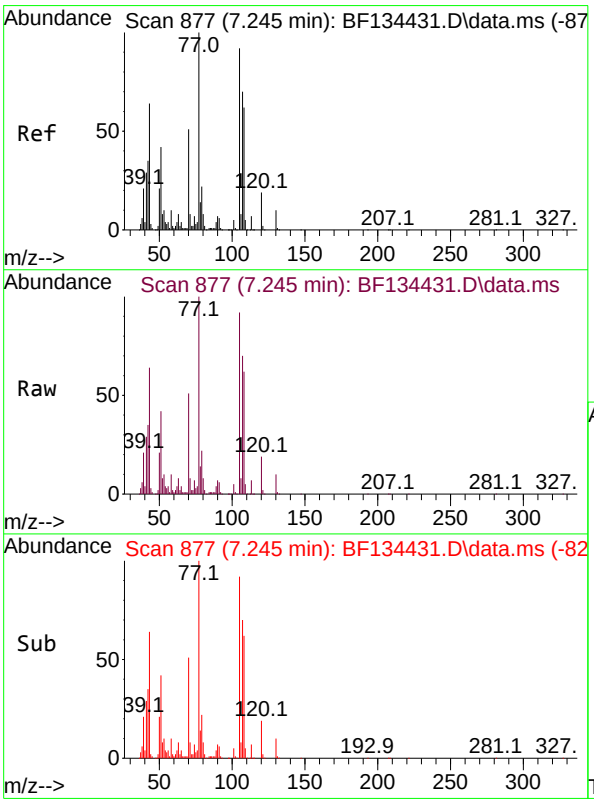
Ion	Ratio	Lower	Upper
70	100		
42	68.4	54.7	82.1
101	10.2	8.2	12.2
130	18.9	15.1	22.7



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

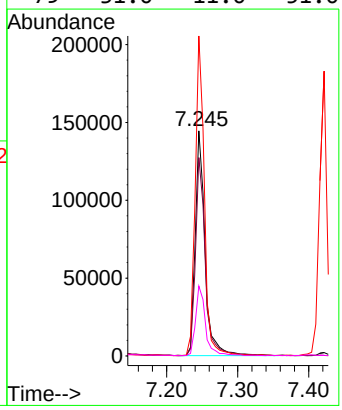
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

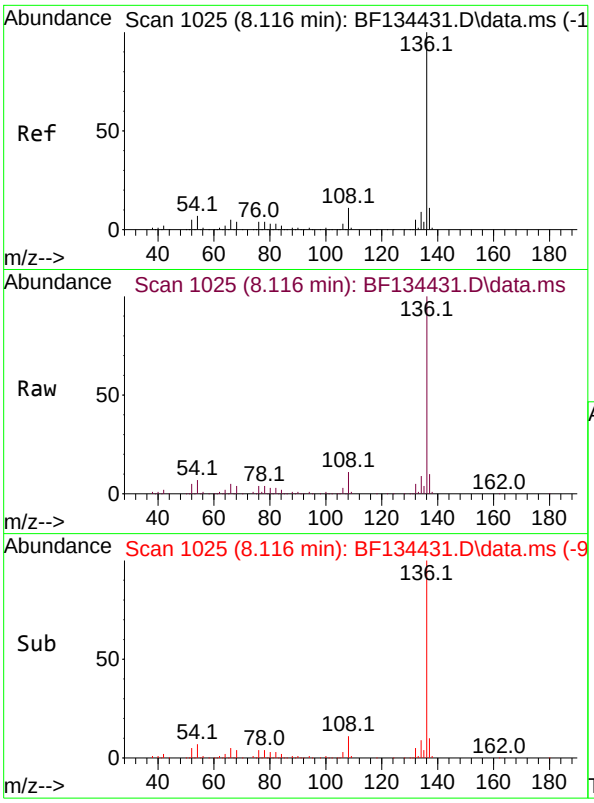


#20
3+4-Methylphenols
Concen: 40.651 ng
RT: 7.245 min Scan# 877
Delta R.T. 0.000 min
Lab File: BF134431.D
Acq: 24 Jul 2023 16:02

Tgt Ion:107 Resp: 138842

Ion	Ratio	Lower	Upper
107	100		
108	88.1	68.1	108.1
77	142.1	122.1	162.1
79	31.0	11.0	51.0

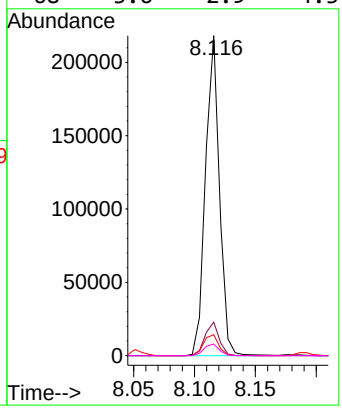




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.116 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134431.D
Acq: 24 Jul 2023 16:02

Tgt Ion:136 Resp: 17412

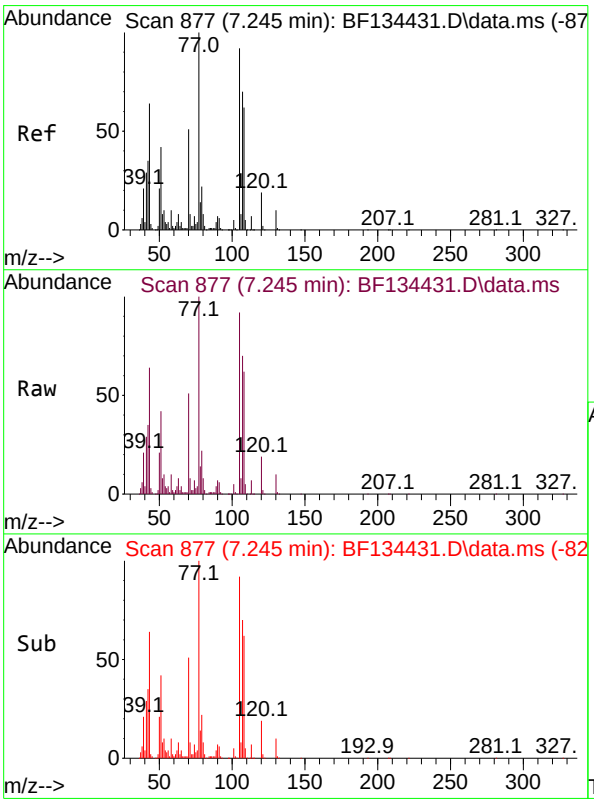
Ion	Ratio	Lower	Upper
136	100		
137	10.5	8.4	12.6
54	6.5	5.2	7.8
68	3.6	2.9	4.3



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

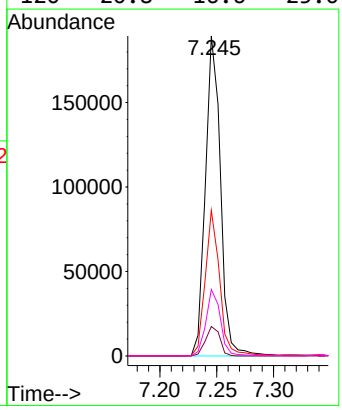
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

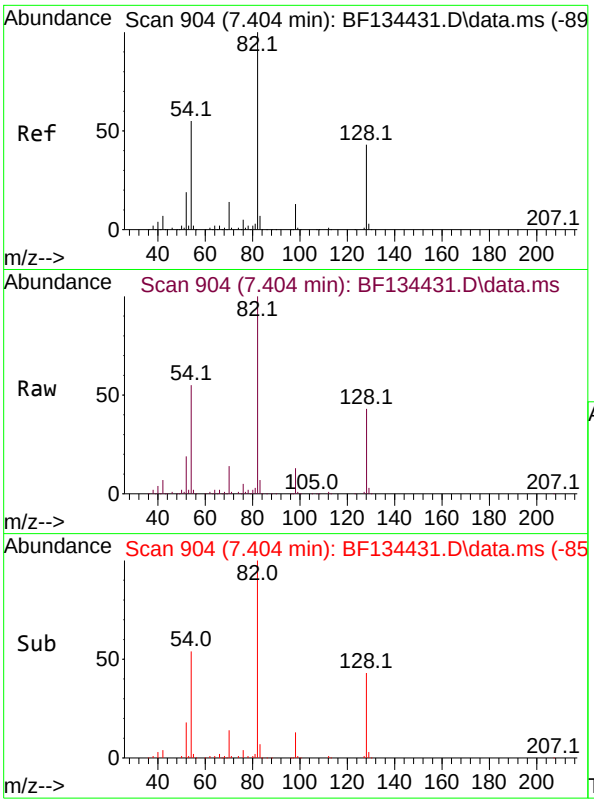


#22
Acetophenone
Concen: 40.486 ng
RT: 7.245 min Scan# 877
Delta R.T. 0.000 min
Lab File: BF134431.D
Acq: 24 Jul 2023 16:02

Tgt Ion:105 Resp: 175328

Ion	Ratio	Lower	Upper
105	100		
71	9.2	7.4	11.0
51	45.5	36.4	54.6
120	20.8	16.6	25.0

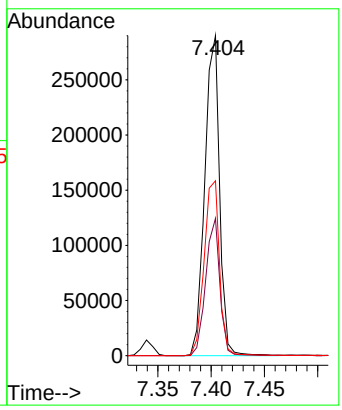




#23
Nitrobenzene-d5
Concen: 81.730 ng
RT: 7.404 min Scan# 9(
Delta R.T. 0.000 min
Lab File: BF134431.D
Acq: 24 Jul 2023 16:02

Tgt Ion: 82 Resp: 28128(

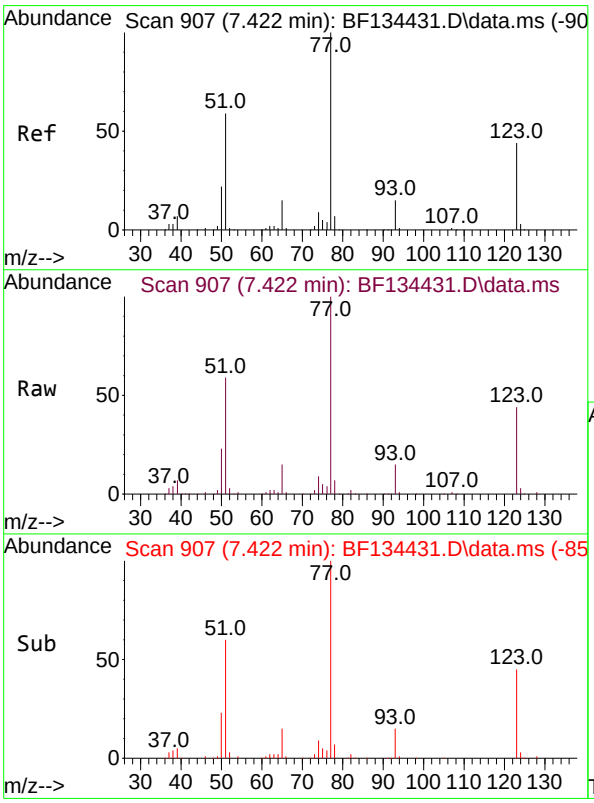
Ion	Ratio	Lower	Upper
82	100		
128	42.9	34.3	51.5
54	54.7	43.8	65.6



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

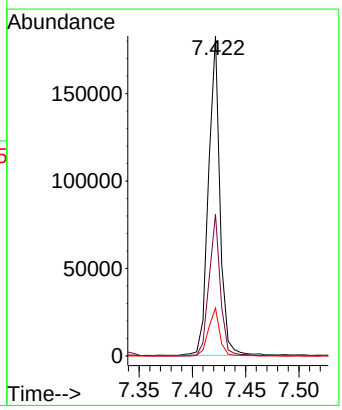
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

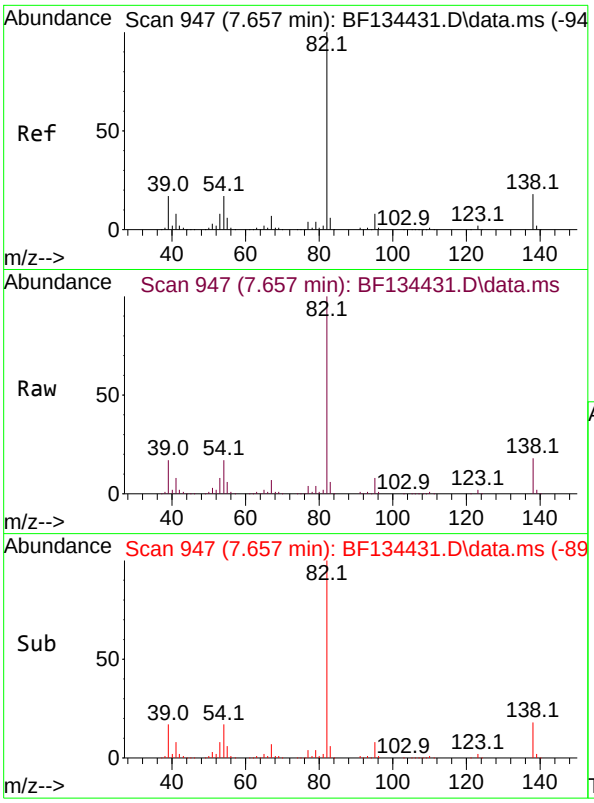


#24
Nitrobenzene
Concen: 39.914 ng
RT: 7.422 min Scan# 907
Delta R.T. 0.000 min
Lab File: BF134431.D
Acq: 24 Jul 2023 16:02

Tgt Ion: 77 Resp: 136616

Ion	Ratio	Lower	Upper
77	100		
123	44.4	35.5	53.3
65	14.9	11.9	17.9

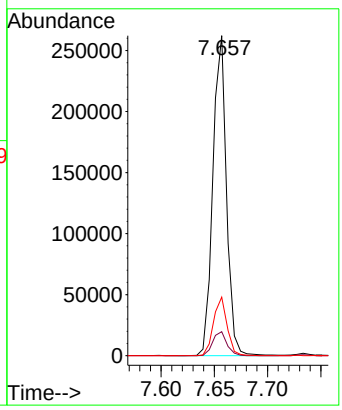




#25
Isophorone
Concen: 40.529 ng
RT: 7.657 min Scan# 94
Delta R.T. 0.000 min
Lab File: BF134431.D
Acq: 24 Jul 2023 16:02

Tgt Ion: 82 Resp: 23247

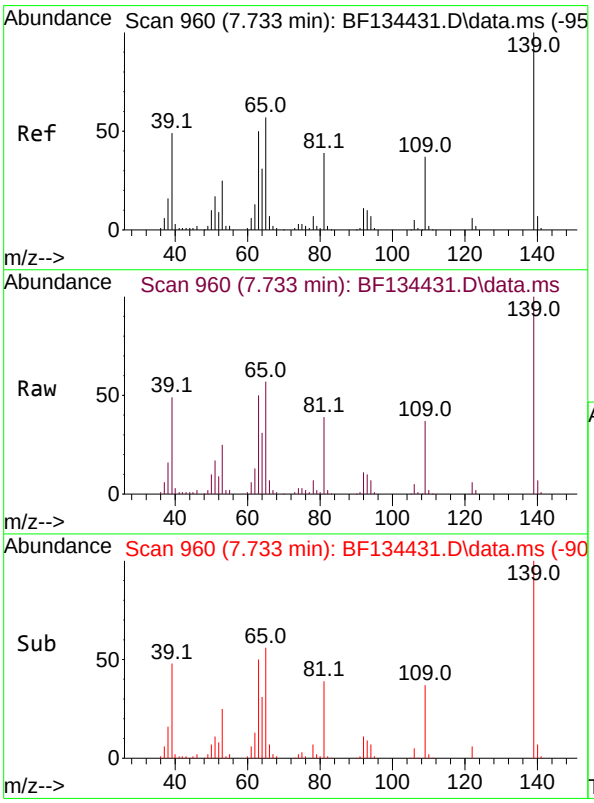
Ion	Ratio	Lower	Upper
82	100		
95	7.5	6.0	9.0
138	18.3	14.6	22.0



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

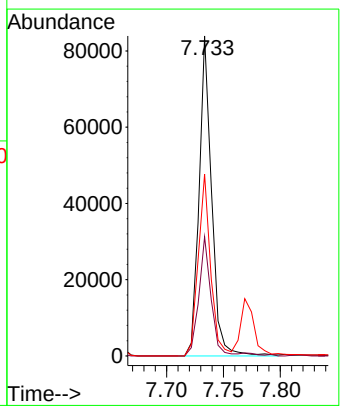
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

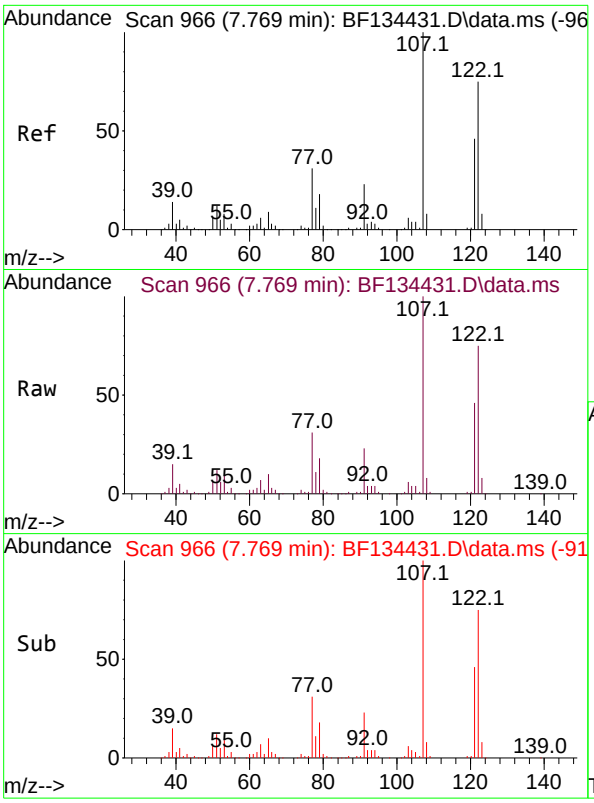


#26
2-Nitrophenol
Concen: 41.173 ng
RT: 7.733 min Scan# 960
Delta R.T. 0.000 min
Lab File: BF134431.D
Acq: 24 Jul 2023 16:02

Tgt Ion:139 Resp: 64817

Ion	Ratio	Lower	Upper
139	100		
109	37.2	29.8	44.6
65	56.8	45.4	68.2

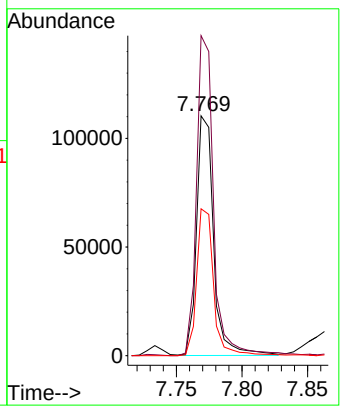




#27
2,4-Dimethylphenol
Concen: 40.322 ng
RT: 7.769 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF134431.D
Acq: 24 Jul 2023 16:02

Tgt Ion:122 Resp: 10017

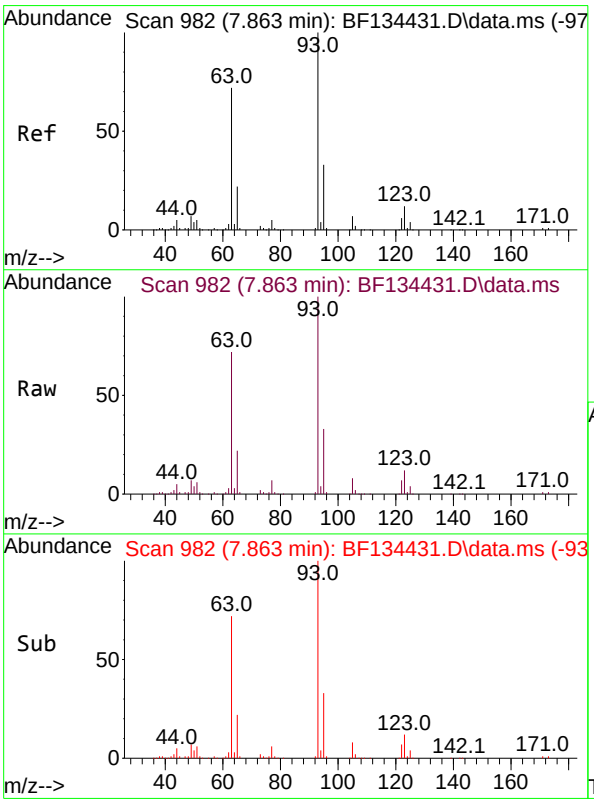
Ion	Ratio	Lower	Upper
122	100		
107	133.4	106.7	160.1
121	61.3	49.0	73.6



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

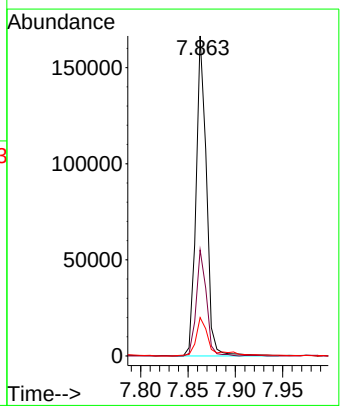
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

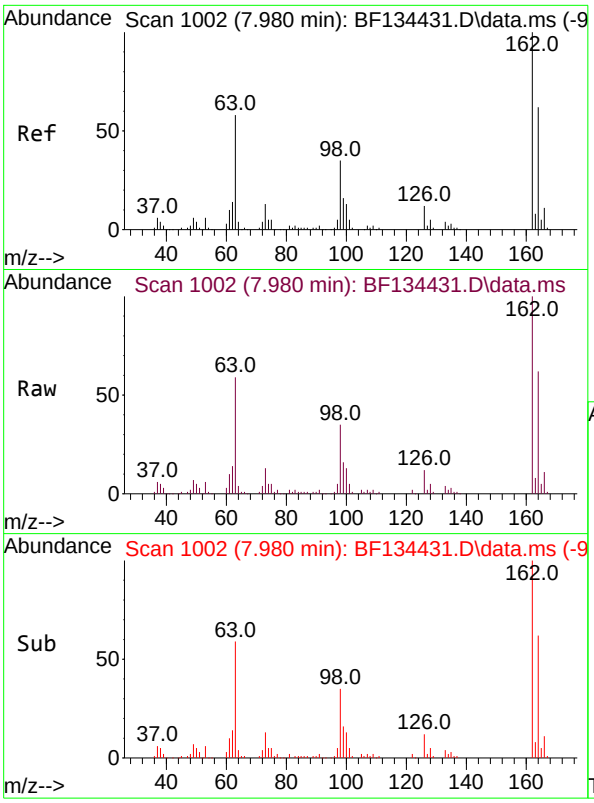


#28
bis(2-Chloroethoxy)methane
Concen: 40.133 ng
RT: 7.863 min Scan# 982
Delta R.T. 0.000 min
Lab File: BF134431.D
Acq: 24 Jul 2023 16:02

Tgt Ion: 93 Resp: 128131

Ion	Ratio	Lower	Upper
93	100		
95	33.1	26.5	39.7
123	12.0	9.6	14.4





#29
2,4-Dichlorophenol
Concen: 40.958 ng
RT: 7.980 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134431.D
Acq: 24 Jul 2023 16:02

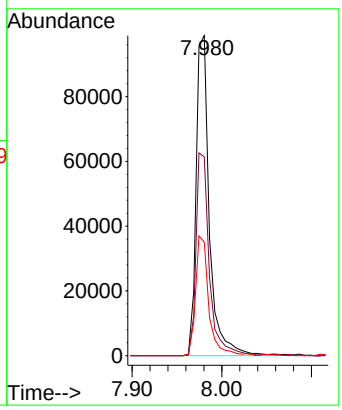
Tgt Ion:162 Resp: 10171

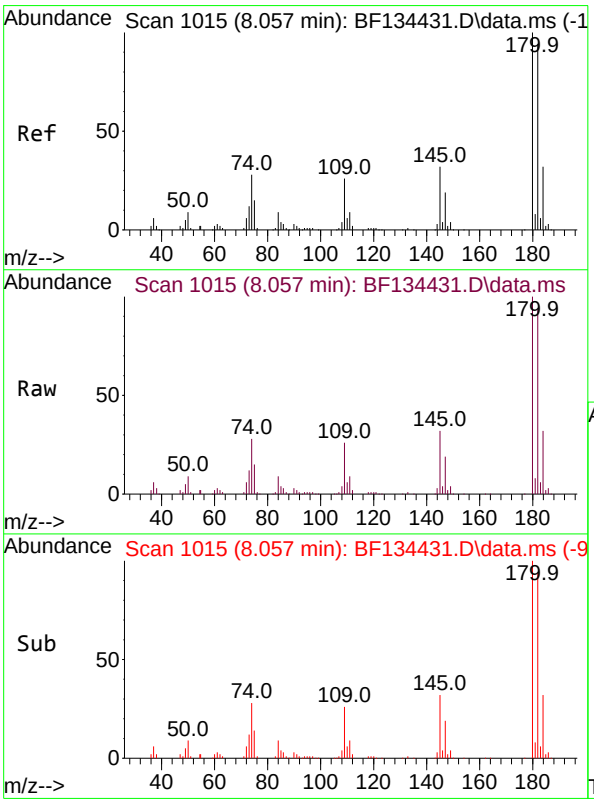
Ion	Ratio	Lower	Upper
162	100		
164	62.2	42.2	82.2
98	35.5	15.5	55.5

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

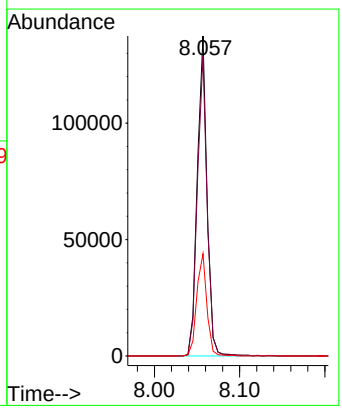


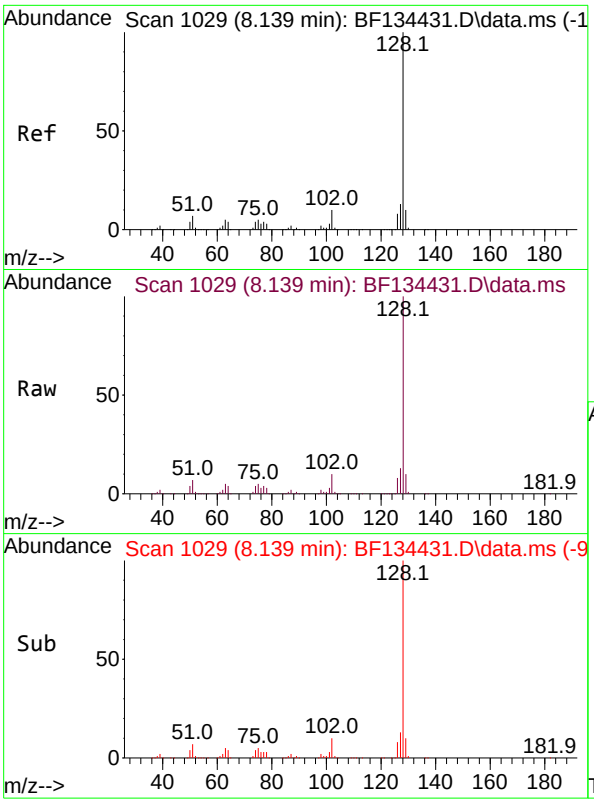


#30
1,2,4-Trichlorobenzene
Concen: 40.923 ng
RT: 8.057 min Scan# 1015
Delta R.T. 0.000 min
Lab File: BF134431.D
Acq: 24 Jul 2023 16:02

Tgt Ion:180 Resp: 109627

Ion	Ratio	Lower	Upper
180	100		
182	93.8	75.0	112.6
145	31.9	25.5	38.3

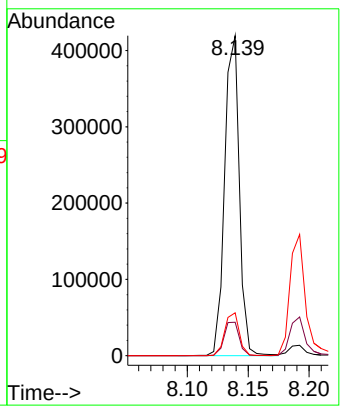




#31
Naphthalene
Concen: 40.622 ng
RT: 8.139 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134431.D
Acq: 24 Jul 2023 16:02

Tgt Ion:128 Resp: 35203

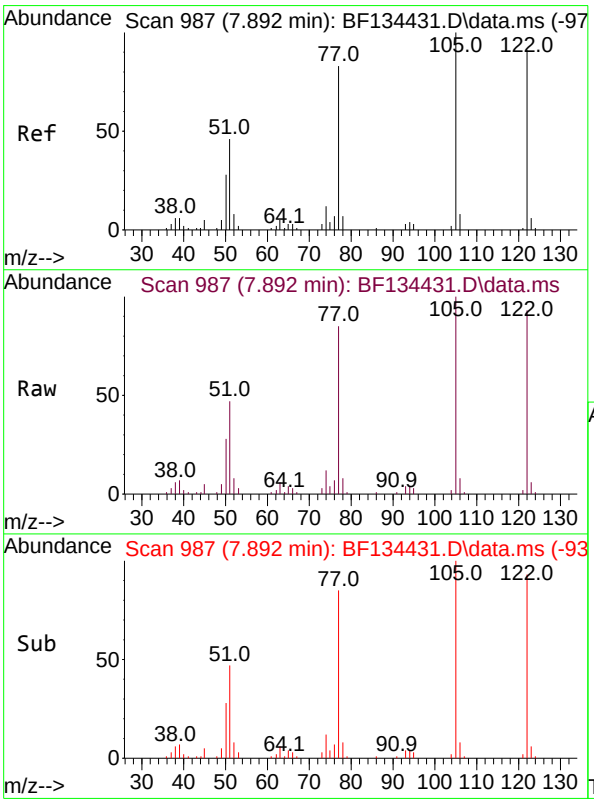
Ion	Ratio	Lower	Upper
128	100		
129	10.5	8.4	12.6
127	13.4	10.7	16.1



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

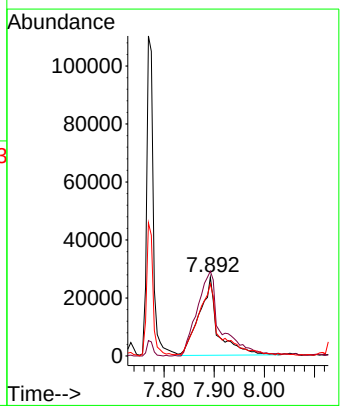
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

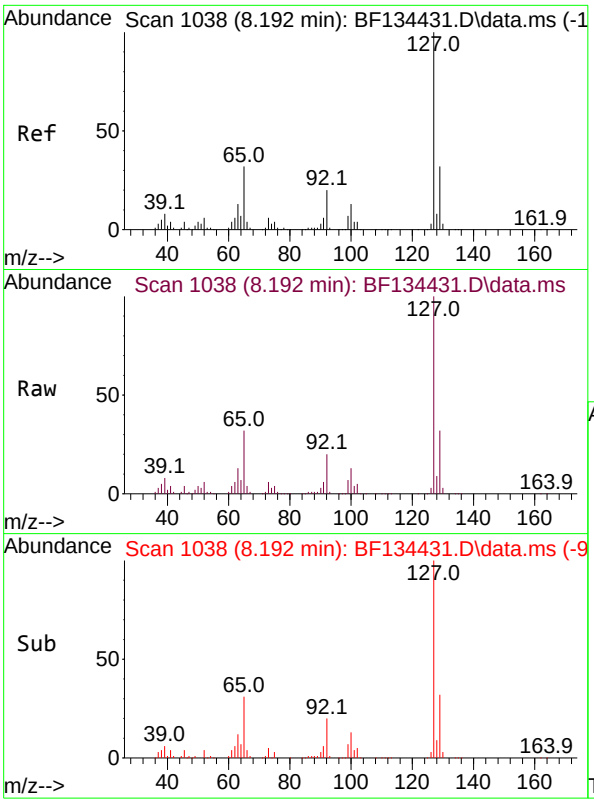


#32
Benzoic acid
Concen: 43.076 ng
RT: 7.892 min Scan# 987
Delta R.T. 0.000 min
Lab File: BF134431.D
Acq: 24 Jul 2023 16:02

Tgt Ion:122 Resp: 70667

Ion	Ratio	Lower	Upper
122	100		
105	107.5	87.5	127.5
77	91.4	71.4	111.4

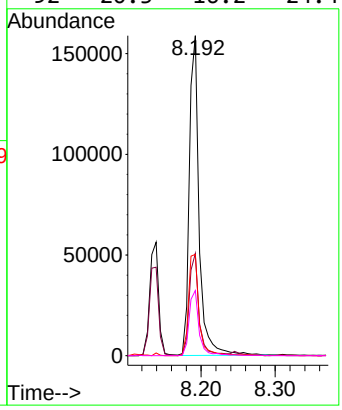




#33
4-Chloroaniline
Concen: 41.009 ng
RT: 8.192 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134431.D
Acq: 24 Jul 2023 16:02

Tgt Ion:127 Resp: 14690

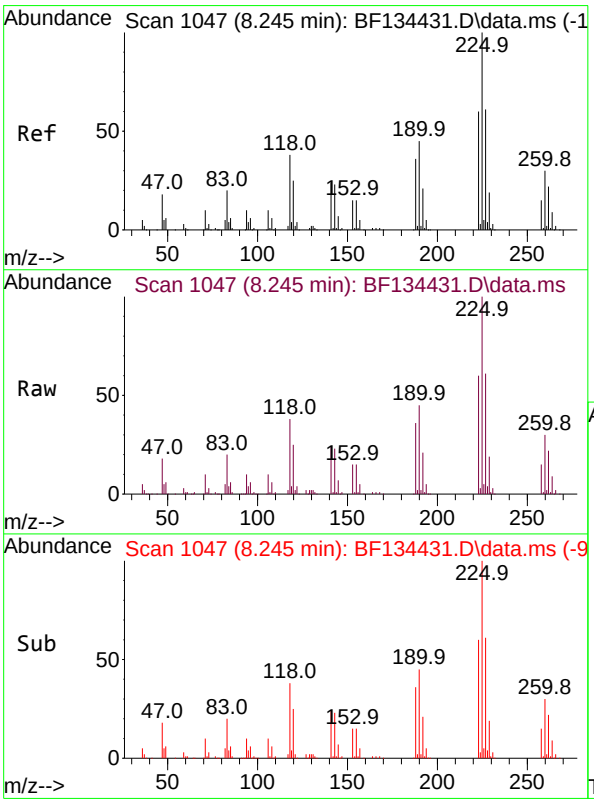
Ion	Ratio	Lower	Upper
127	100		
129	32.0	25.6	38.4
65	31.7	25.4	38.0
92	20.3	16.2	24.4



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

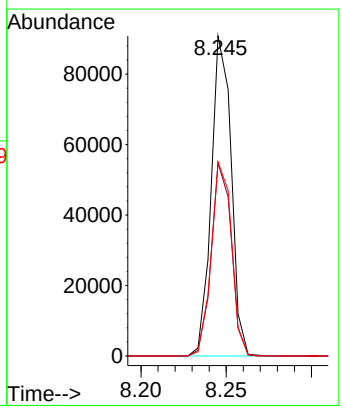
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

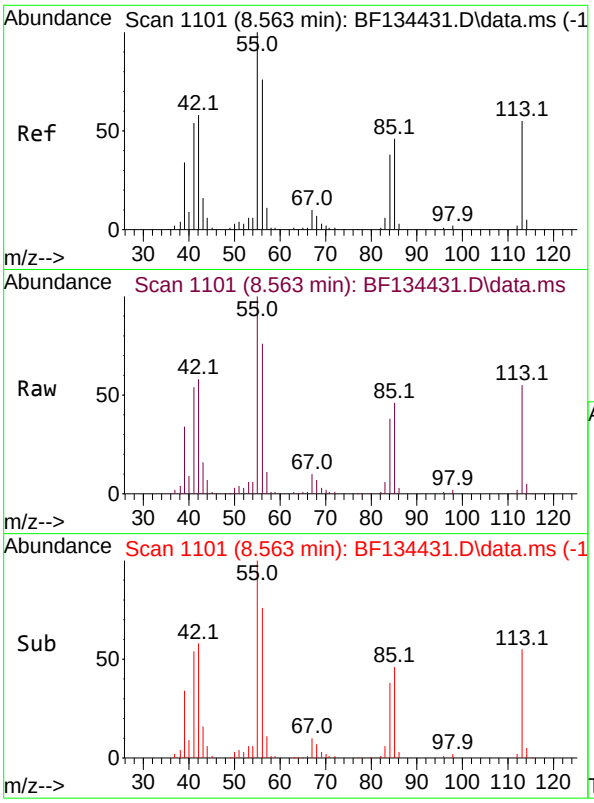


#34
Hexachlorobutadiene
Concen: 41.055 ng
RT: 8.245 min Scan# 1047
Delta R.T. 0.000 min
Lab File: BF134431.D
Acq: 24 Jul 2023 16:02

Tgt Ion:225 Resp: 73678

Ion	Ratio	Lower	Upper
225	100		
223	60.3	48.2	72.4
227	60.6	48.5	72.7

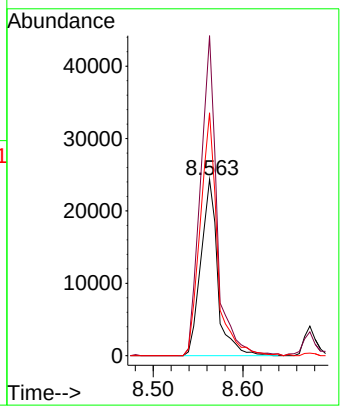




#35
Caprolactam
Concen: 41.759 ng
RT: 8.563 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF134431.D
Acq: 24 Jul 2023 16:02

Tgt Ion:113 Resp: 3165

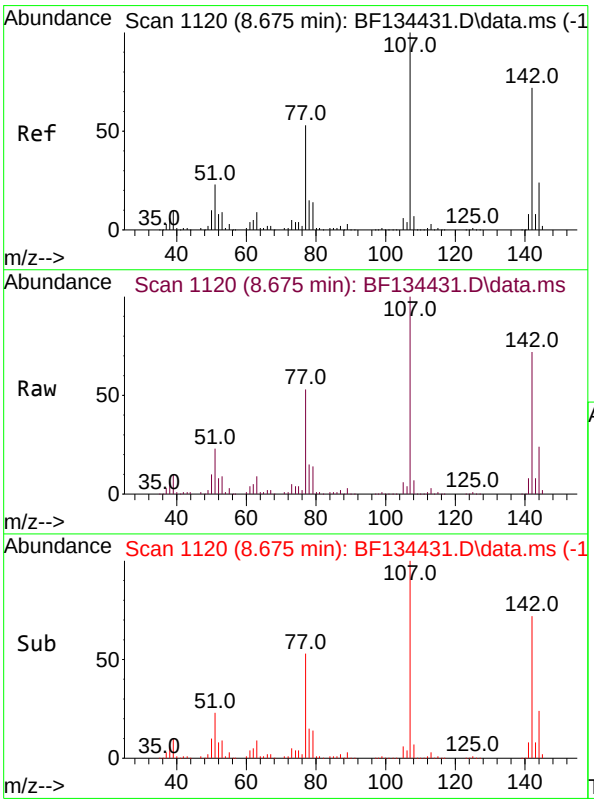
Ion	Ratio	Lower	Upper
113	100		
55	181.5	161.5	201.5
56	137.8	117.8	157.8



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

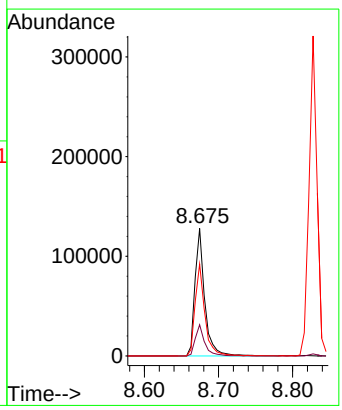
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

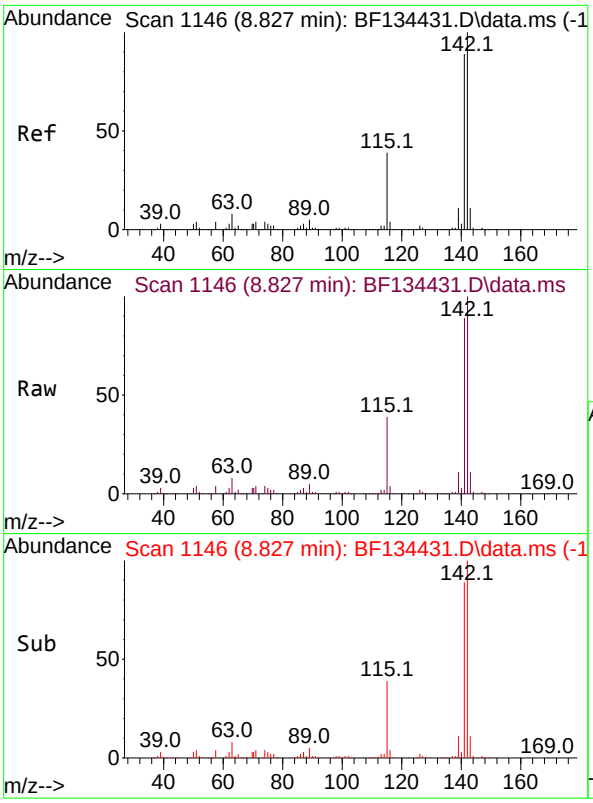


#36
4-Chloro-3-methylphenol
Concen: 40.852 ng
RT: 8.675 min Scan# 1120
Delta R.T. 0.000 min
Lab File: BF134431.D
Acq: 24 Jul 2023 16:02

Tgt Ion:107 Resp: 117065

Ion	Ratio	Lower	Upper
107	100		
144	24.5	19.6	29.4
142	72.1	57.7	86.5





#37
2-Methylnaphthalene
Concen: 40.594 ng
RT: 8.827 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134431.D
Acq: 24 Jul 2023 16:02

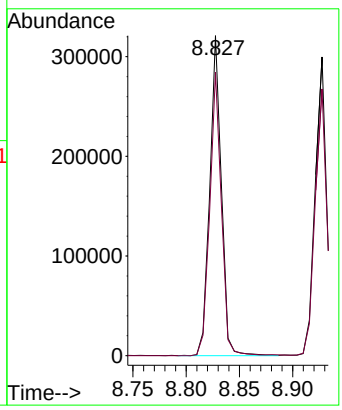
Tgt Ion:142 Resp: 24443

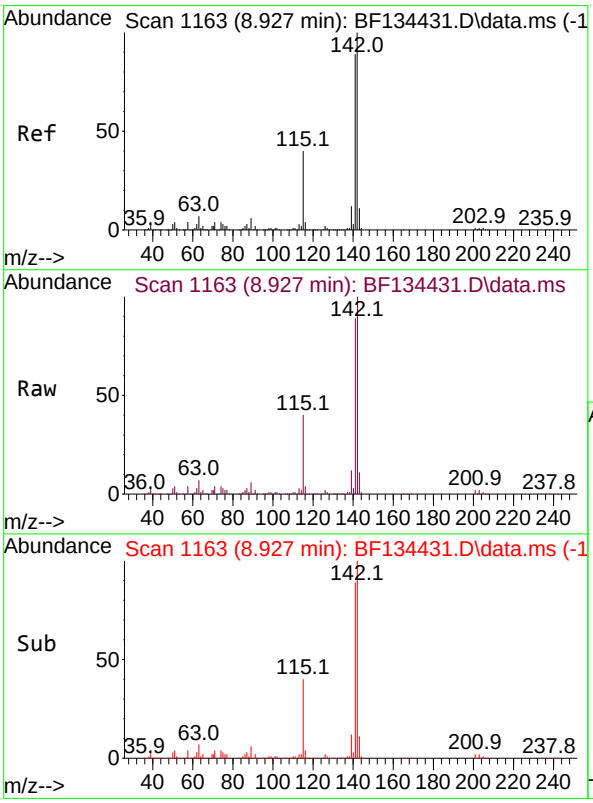
Ion	Ratio	Lower	Upper
142	100		
141	88.5	70.8	106.2

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

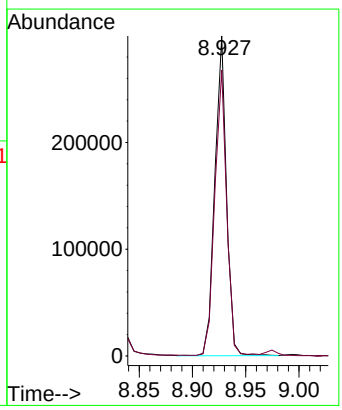


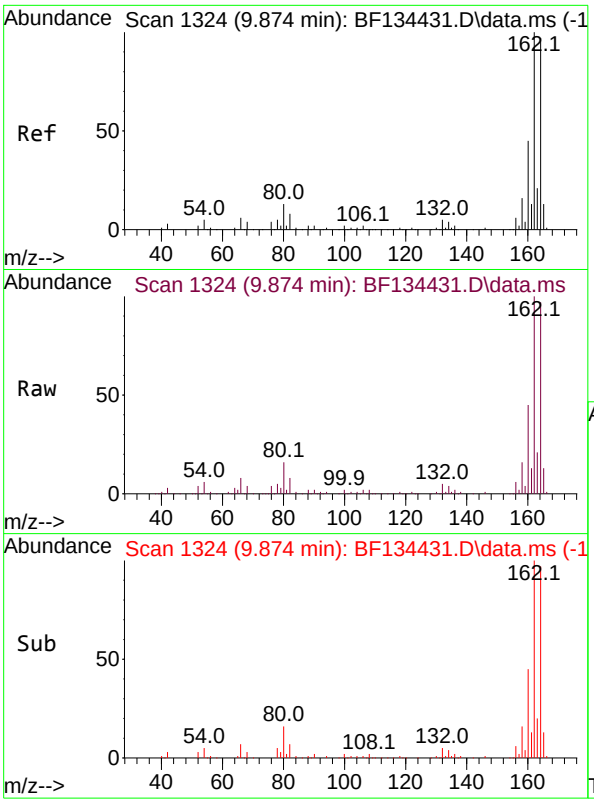


#38
1-Methylnaphthalene
Concen: 40.497 ng
RT: 8.927 min Scan# 1163
Delta R.T. 0.000 min
Lab File: BF134431.D
Acq: 24 Jul 2023 16:02

Tgt Ion:142 Resp: 226216

Ion	Ratio	Lower	Upper
142	100		
141	89.3	71.4	107.2

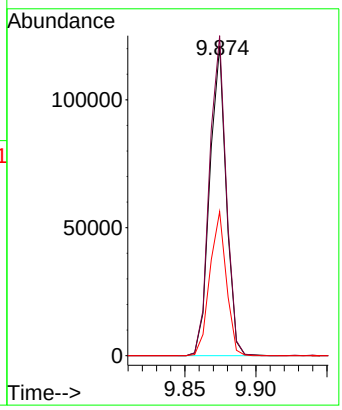




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.874 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134431.D
Acq: 24 Jul 2023 16:02

Tgt Ion:164 Resp: 9704

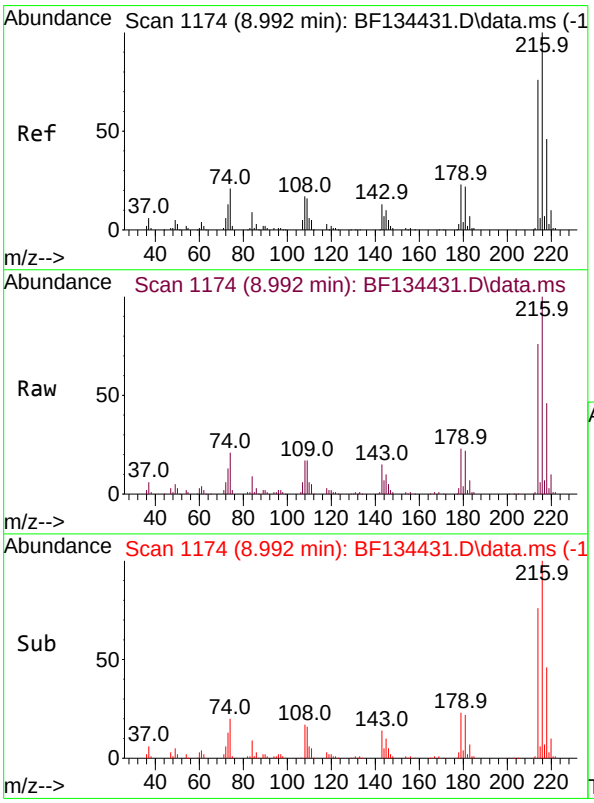
Ion	Ratio	Lower	Upper
164	100		
162	103.2	82.6	123.8
160	46.5	37.2	55.8



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

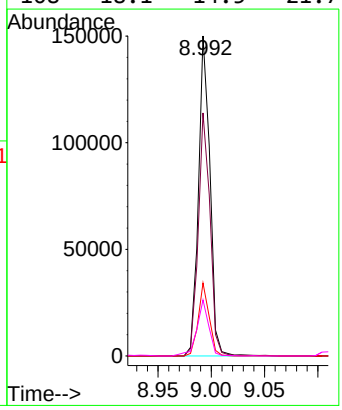
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

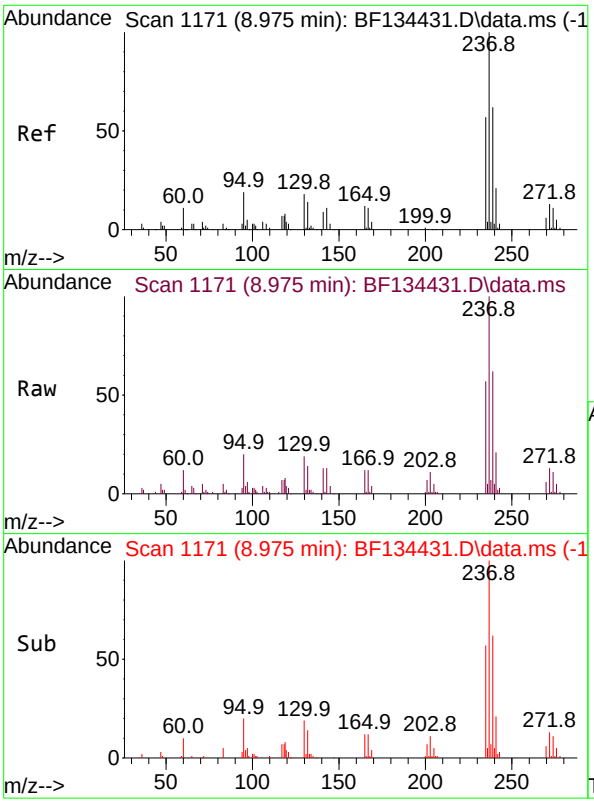


#40
1,2,4,5-Tetrachlorobenzene
Concen: 36.757 ng
RT: 8.992 min Scan# 1174
Delta R.T. 0.000 min
Lab File: BF134431.D
Acq: 24 Jul 2023 16:02

Tgt Ion:216 Resp: 113039

Ion	Ratio	Lower	Upper
216	100		
214	77.9	62.3	93.5
179	21.7	17.4	26.0
108	18.1	14.5	21.7





#41
Hexachlorocyclopentadiene
Concen: 38.466 ng
RT: 8.975 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF134431.D
Acq: 24 Jul 2023 16:02

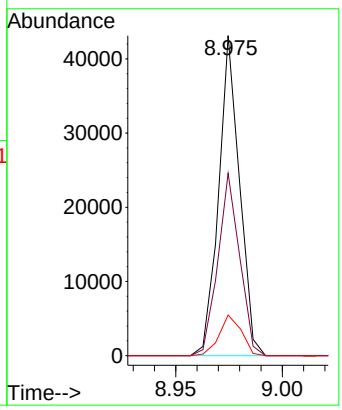
Tgt Ion:237 Resp: 2937

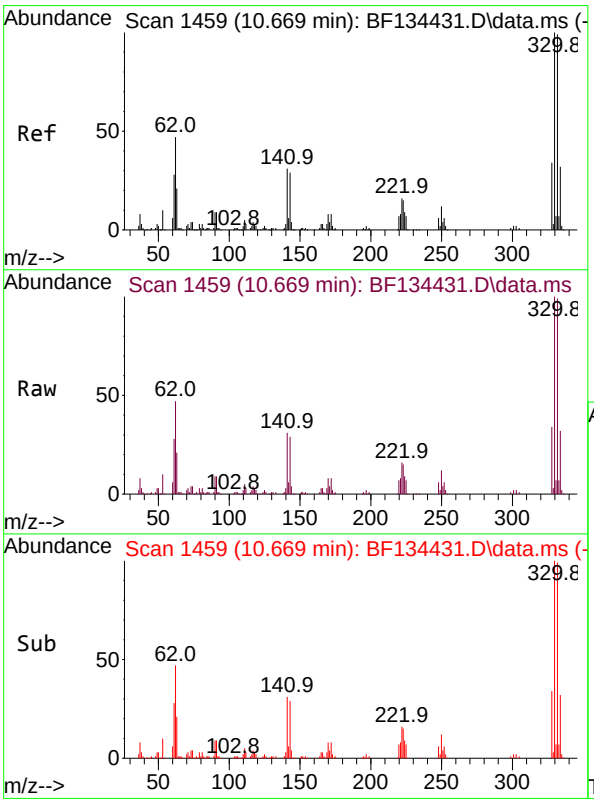
Ion	Ratio	Lower	Upper
237	100		
235	57.0	37.0	77.0
272	12.7	0.0	32.7

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

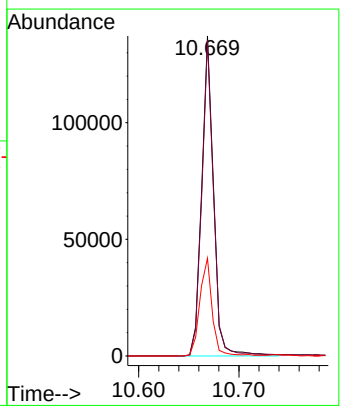


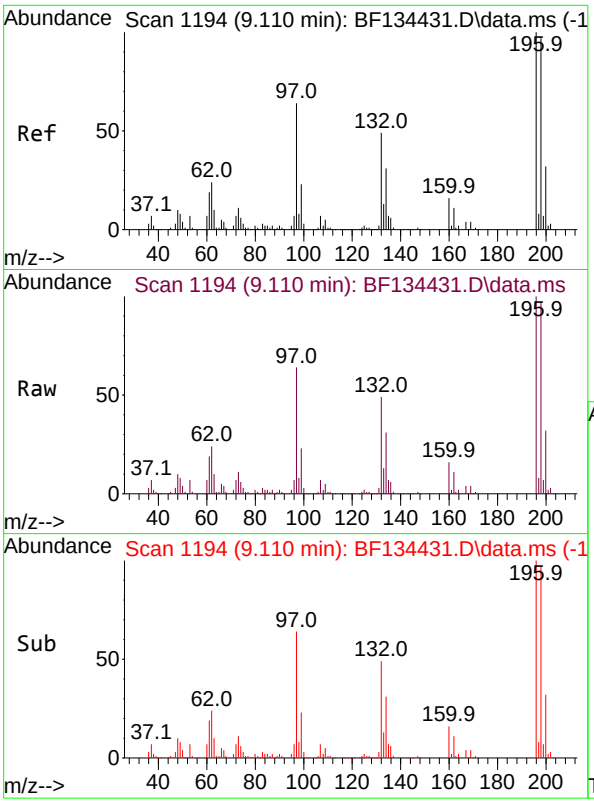


#42
2,4,6-Tribromophenol
Concen: 82.410 ng
RT: 10.669 min Scan# 1459
Delta R.T. 0.000 min
Lab File: BF134431.D
Acq: 24 Jul 2023 16:02

Tgt Ion:330 Resp: 113628

Ion	Ratio	Lower	Upper
330	100		
332	98.5	78.8	118.2
141	31.8	25.4	38.2

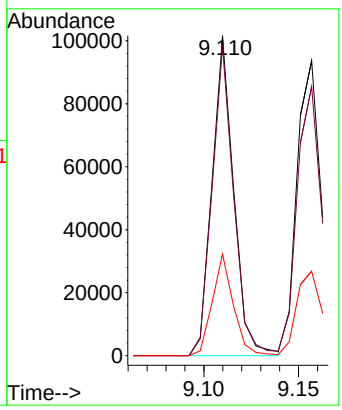




#43
2,4,6-Trichlorophenol
Concen: 41.016 ng
RT: 9.110 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134431.D
Acq: 24 Jul 2023 16:02

Tgt Ion:196 Resp: 8092

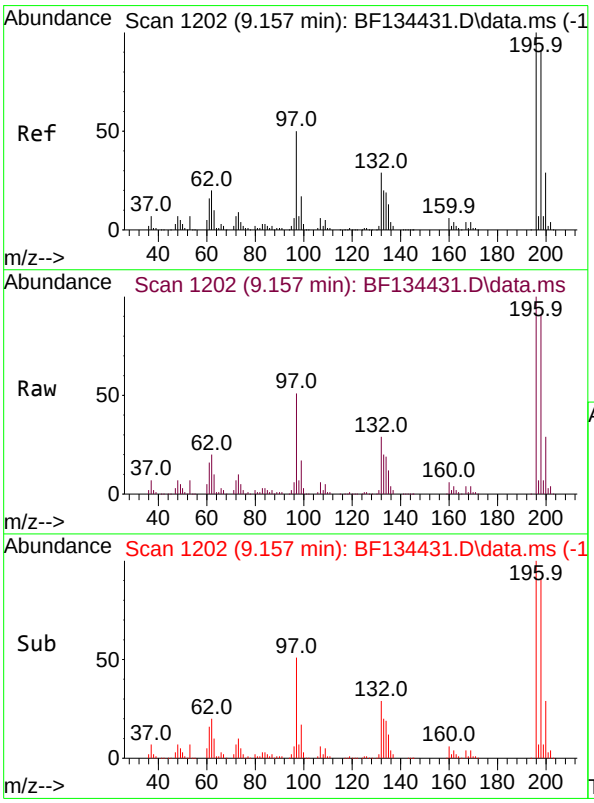
Ion	Ratio	Lower	Upper
196	100		
198	96.8	77.4	116.2
200	31.8	25.4	38.2



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

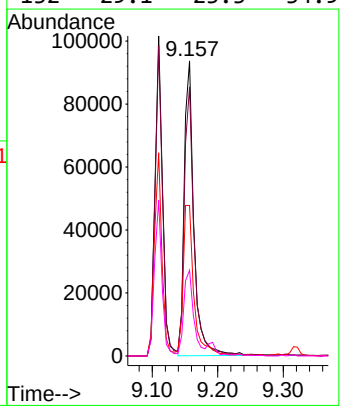
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

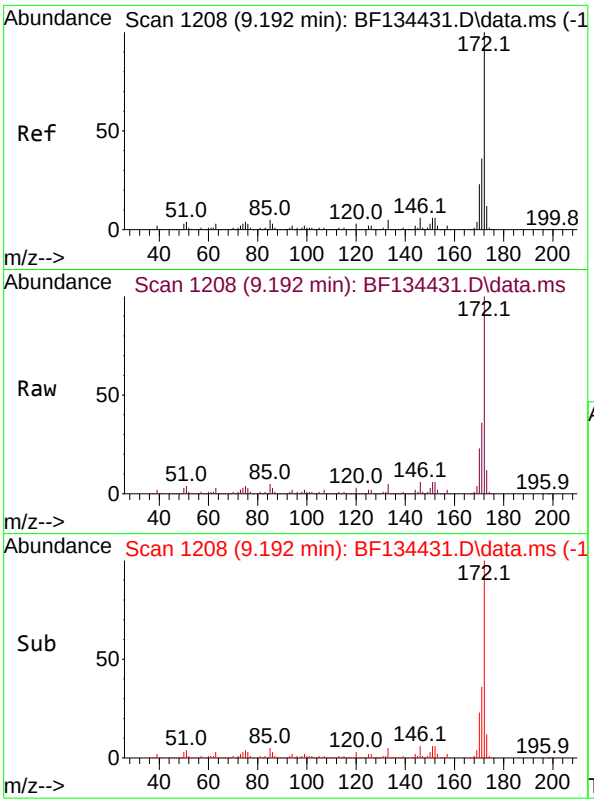


#44
2,4,5-Trichlorophenol
Concen: 41.507 ng
RT: 9.157 min Scan# 1202
Delta R.T. 0.000 min
Lab File: BF134431.D
Acq: 24 Jul 2023 16:02

Tgt Ion:196 Resp: 95408

Ion	Ratio	Lower	Upper
196	100		
198	91.2	73.0	109.4
97	51.0	40.8	61.2
132	29.1	23.3	34.9

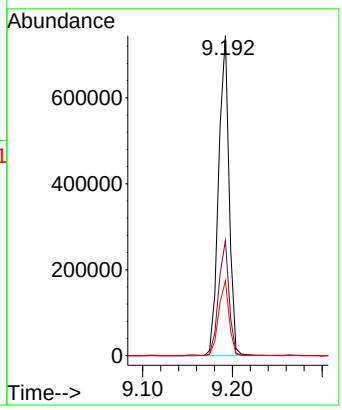




#45
2-Fluorobiphenyl
Concen: 81.677 ng
RT: 9.192 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134431.D
Acq: 24 Jul 2023 16:02

Tgt Ion:172 Resp: 60376

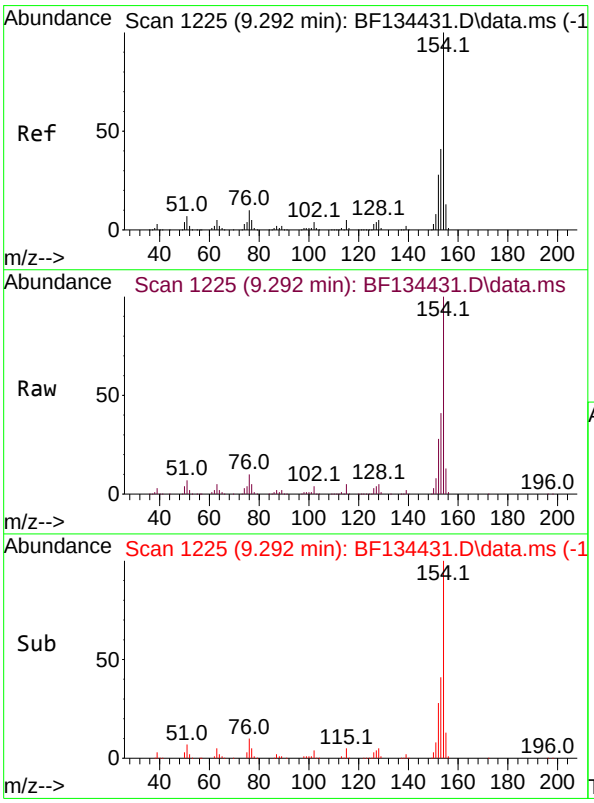
Ion	Ratio	Lower	Upper
172	100		
171	36.0	28.8	43.2
170	23.4	18.7	28.1



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

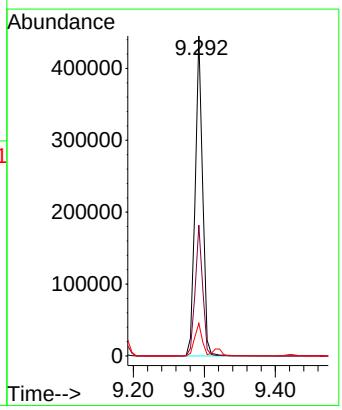
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

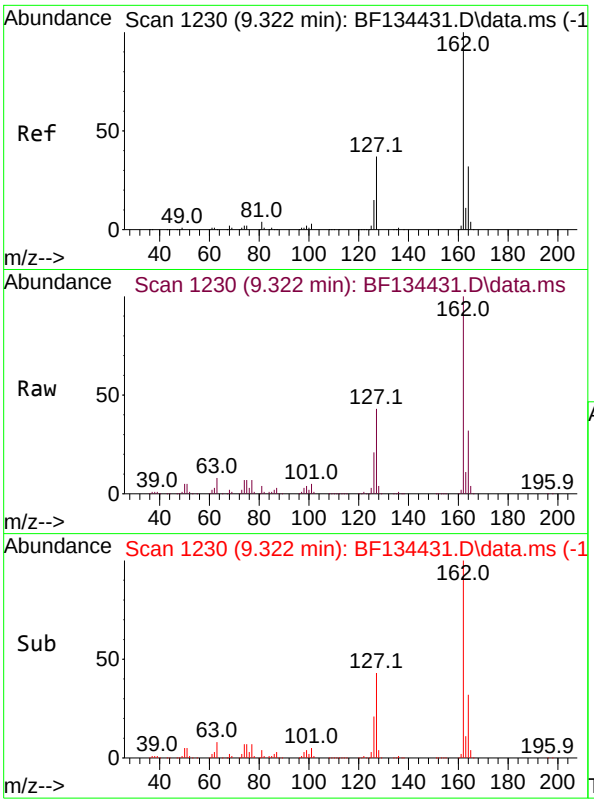


#46
1,1'-Biphenyl
Concen: 40.795 ng
RT: 9.292 min Scan# 1225
Delta R.T. 0.000 min
Lab File: BF134431.D
Acq: 24 Jul 2023 16:02

Tgt Ion:154 Resp: 326287

Ion	Ratio	Lower	Upper
154	100		
153	40.8	20.8	60.8
76	10.2	0.0	30.2

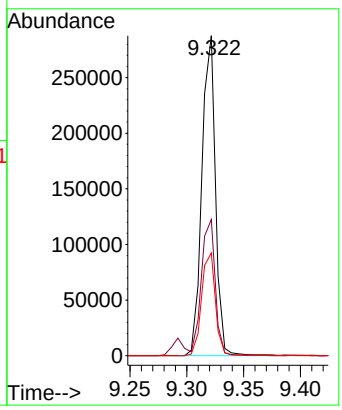




#47
2-Chloronaphthalene
Concen: 40.609 ng
RT: 9.322 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134431.D
Acq: 24 Jul 2023 16:02

Tgt Ion:162 Resp: 23945

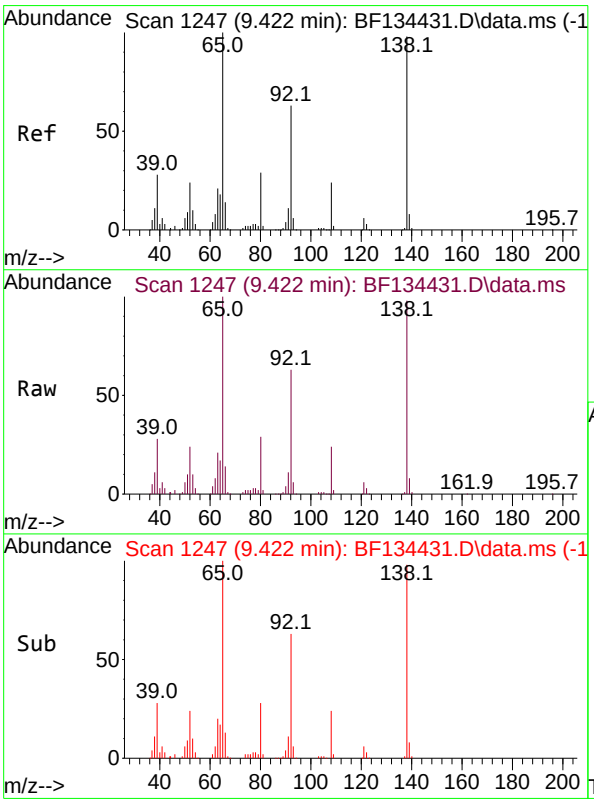
Ion	Ratio	Lower	Upper
162	100		
127	42.5	34.0	51.0
164	32.1	25.7	38.5



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

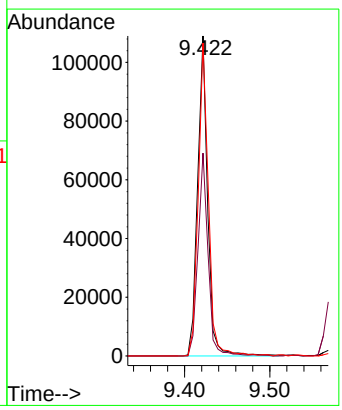
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

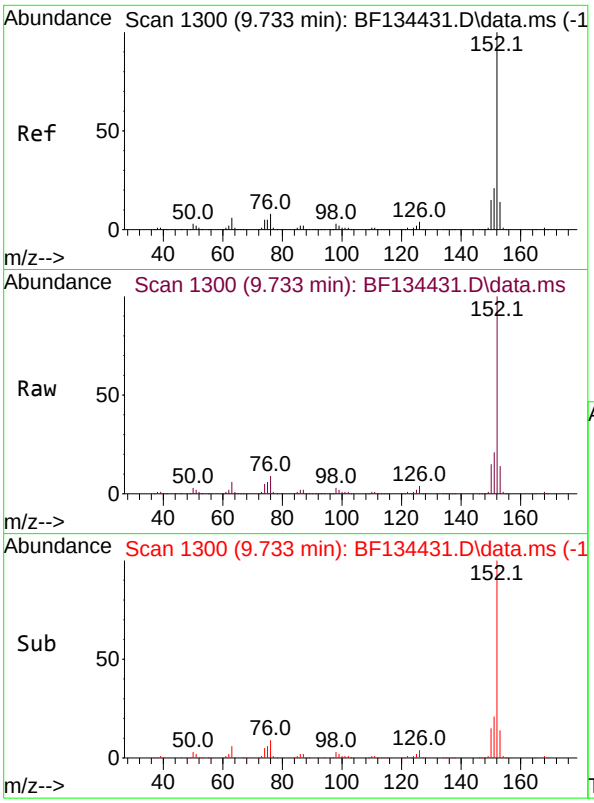


#48
2-Nitroaniline
Concen: 42.163 ng
RT: 9.422 min Scan# 1247
Delta R.T. 0.000 min
Lab File: BF134431.D
Acq: 24 Jul 2023 16:02

Tgt Ion: 65 Resp: 89537

Ion	Ratio	Lower	Upper
65	100		
92	63.4	50.7	76.1
138	97.8	78.2	117.4

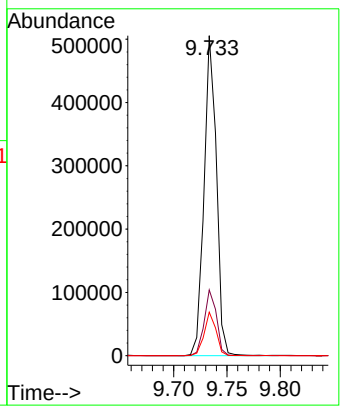




#49
Acenaphthylene
Concen: 41.153 ng
RT: 9.733 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134431.D
Acq: 24 Jul 2023 16:02

Tgt Ion:152 Resp: 40994

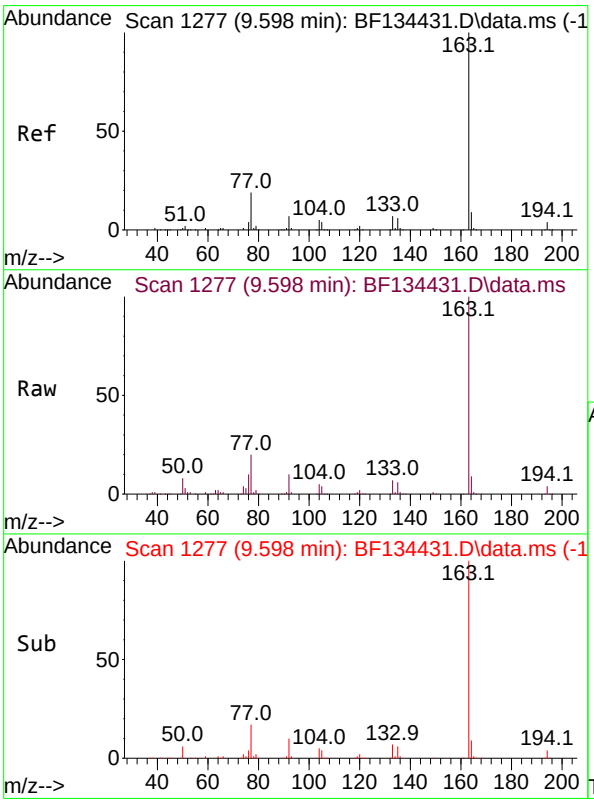
Ion	Ratio	Lower	Upper
152	100		
151	20.5	16.4	24.6
153	13.6	10.9	16.3



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

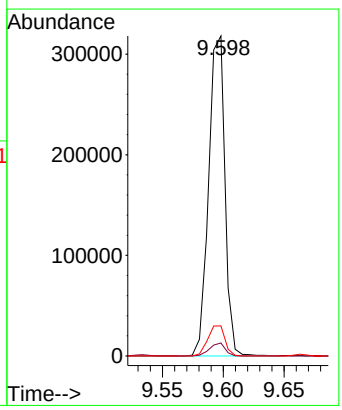
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

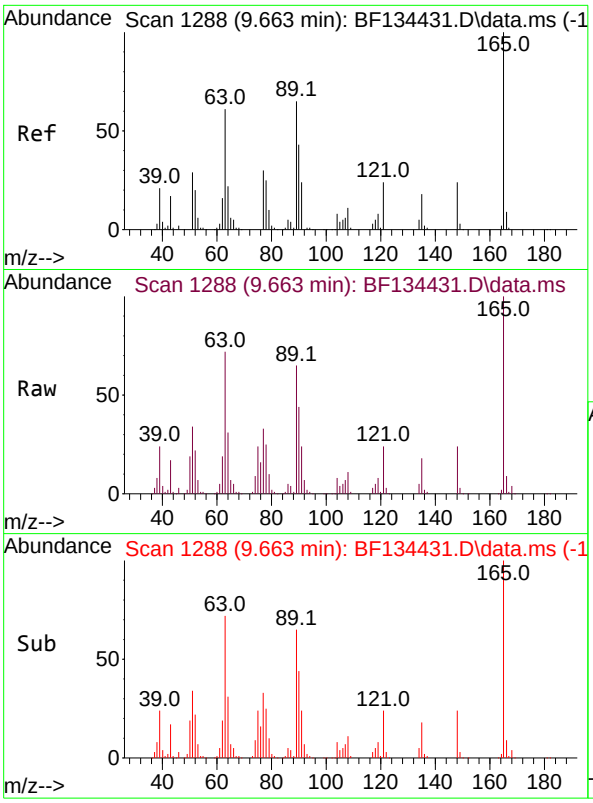


#50
Dimethylphthalate
Concen: 41.095 ng
RT: 9.598 min Scan# 1277
Delta R.T. 0.000 min
Lab File: BF134431.D
Acq: 24 Jul 2023 16:02

Tgt Ion:163 Resp: 295635

Ion	Ratio	Lower	Upper
163	100		
194	4.1	3.3	4.9
164	9.4	7.5	11.3





#51
2,6-Dinitrotoluene
Concen: 41.667 ng
RT: 9.663 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF134431.D
Acq: 24 Jul 2023 16:02

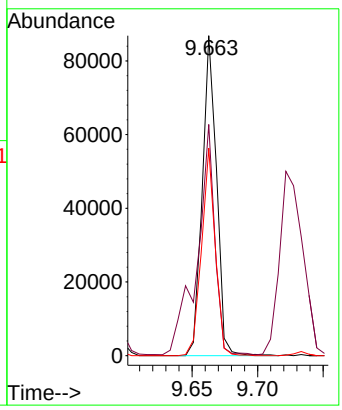
Tgt Ion:165 Resp: 6577

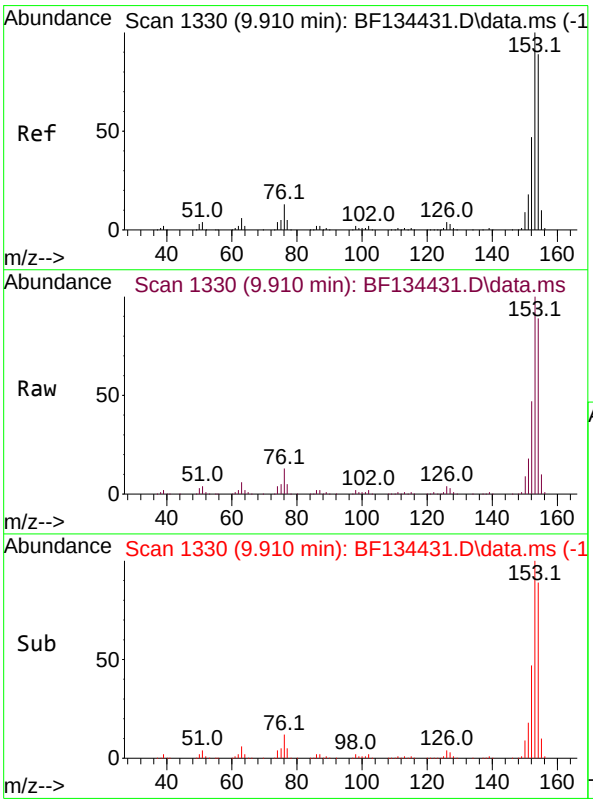
Ion	Ratio	Lower	Upper
165	100		
63	72.2	57.8	86.6
89	64.8	51.8	77.8

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

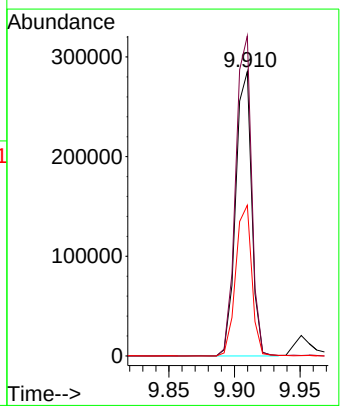


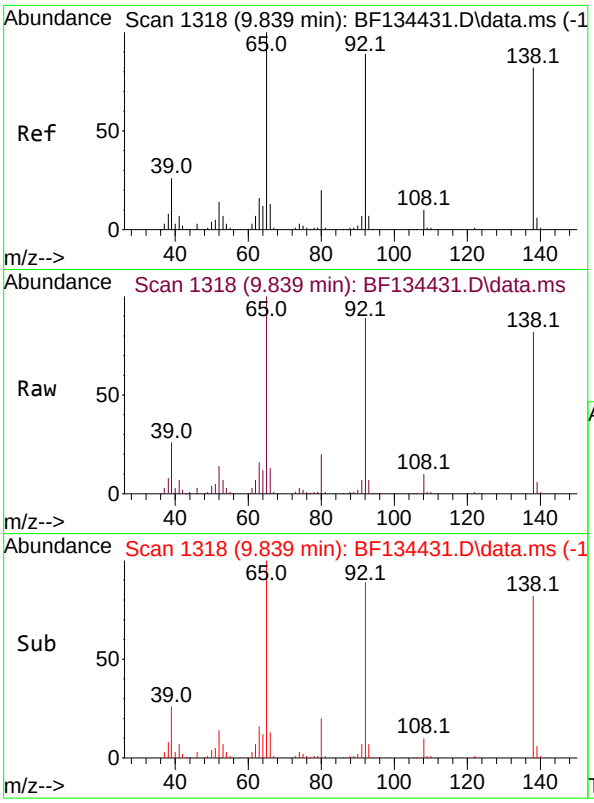


#52
Acenaphthene
Concen: 41.191 ng
RT: 9.910 min Scan# 1330
Delta R.T. -0.000 min
Lab File: BF134431.D
Acq: 24 Jul 2023 16:02

Tgt Ion:154 Resp: 242396

Ion	Ratio	Lower	Upper
154	100		
153	112.5	90.0	135.0
152	53.0	42.4	63.6

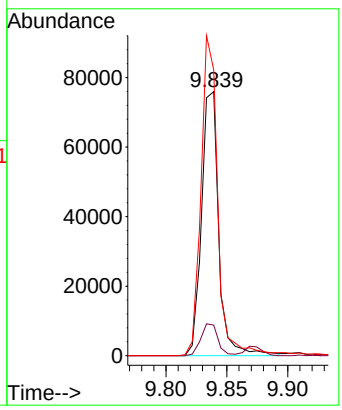




#53
3-Nitroaniline
Concen: 41.436 ng
RT: 9.839 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134431.D
Acq: 24 Jul 2023 16:02

Tgt Ion:138 Resp: 7499

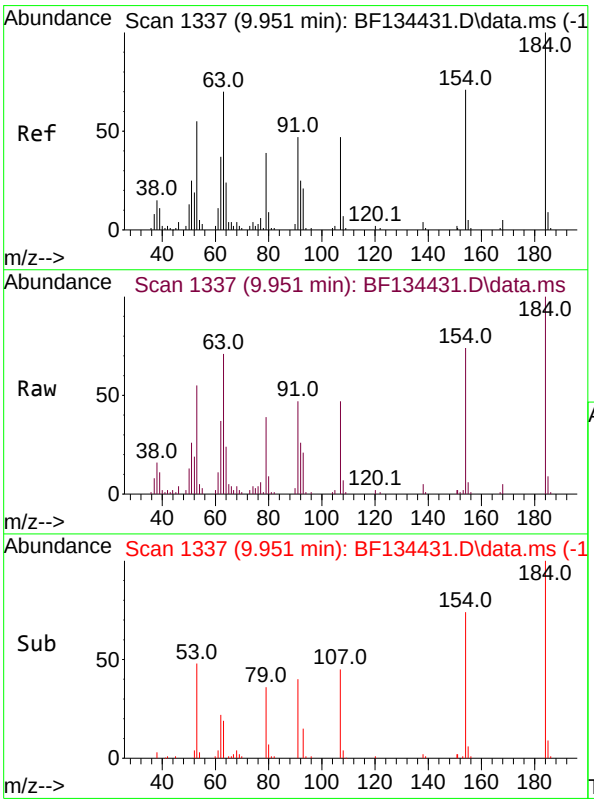
Ion	Ratio	Lower	Upper
138	100		
108	11.6	9.3	13.9
92	108.2	86.6	129.8



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

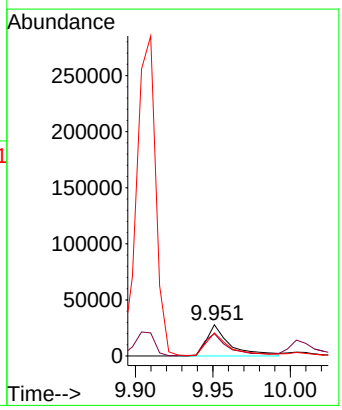
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

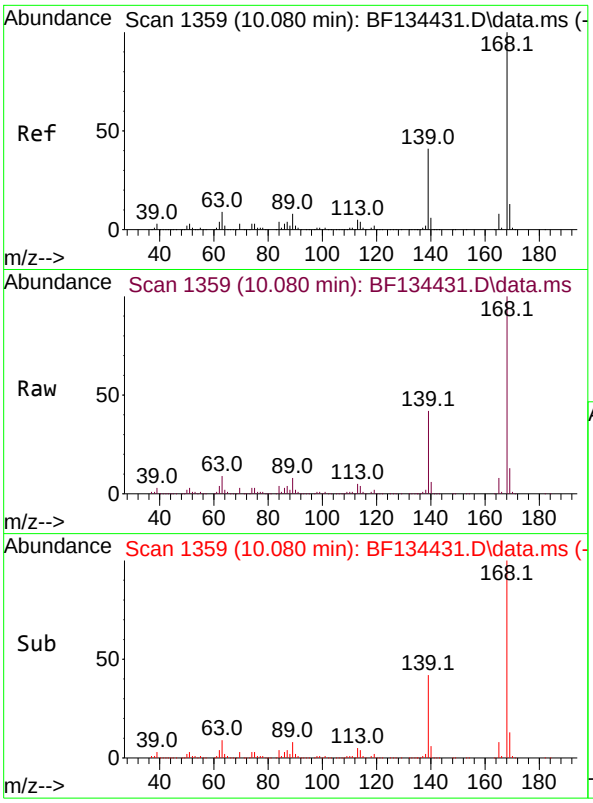


#54
2,4-Dinitrophenol
Concen: 38.654 ng
RT: 9.951 min Scan# 1337
Delta R.T. -0.000 min
Lab File: BF134431.D
Acq: 24 Jul 2023 16:02

Tgt Ion:184 Resp: 28948

Ion	Ratio	Lower	Upper
184	100		
63	71.4	57.1	85.7
154	73.9	59.1	88.7

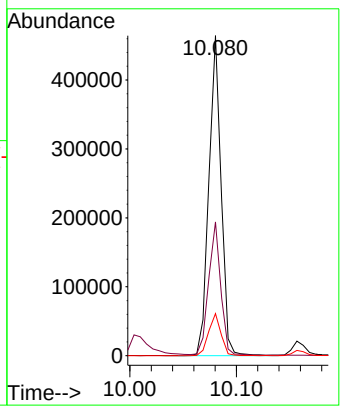




#55
Dibenzofuran
Concen: 40.925 ng
RT: 10.080 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134431.D
Acq: 24 Jul 2023 16:02

Tgt Ion:168 Resp: 37066

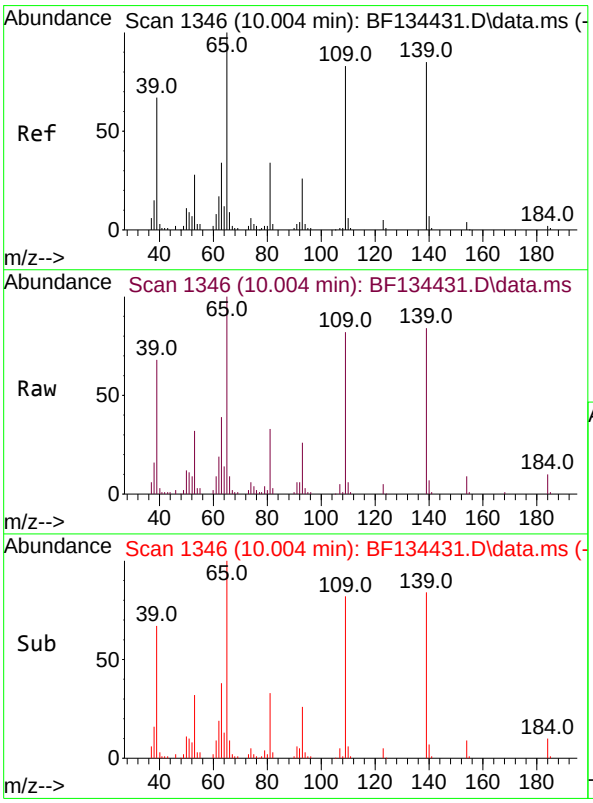
Ion	Ratio	Lower	Upper
168	100		
139	41.8	33.4	50.2
169	13.2	10.6	15.8



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

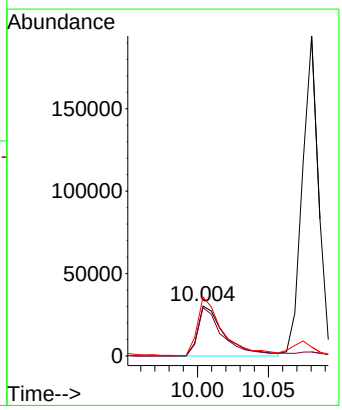
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

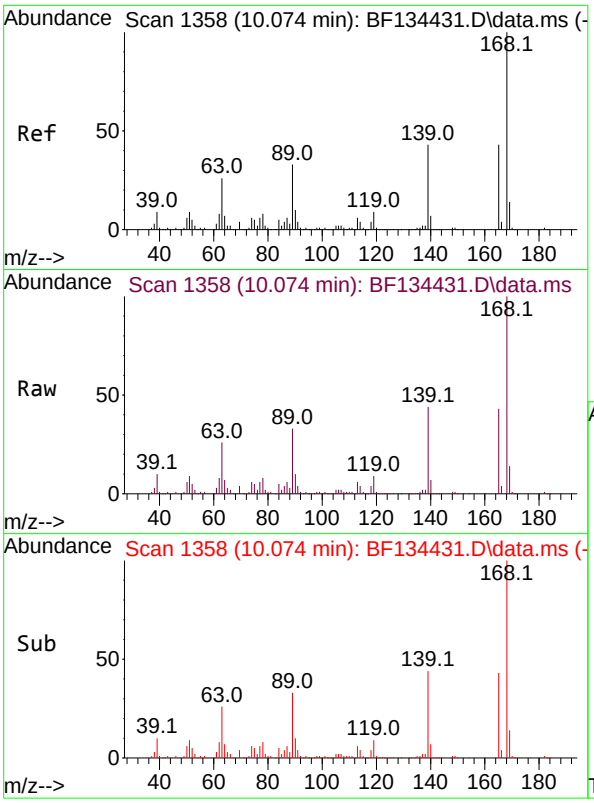


#56
4-Nitrophenol
Concen: 41.175 ng
RT: 10.004 min Scan# 1346
Delta R.T. -0.000 min
Lab File: BF134431.D
Acq: 24 Jul 2023 16:02

Tgt Ion:139 Resp: 39739

Ion	Ratio	Lower	Upper
139	100		
109	96.9	76.9	116.9
65	118.5	98.5	138.5

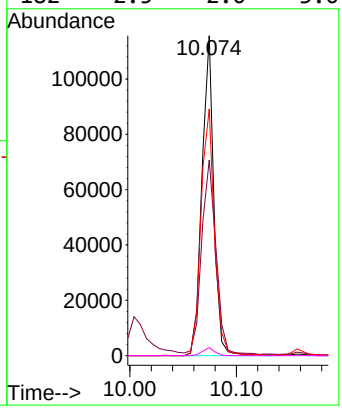




#57
2,4-Dinitrotoluene
Concen: 42.239 ng
RT: 10.074 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134431.D
Acq: 24 Jul 2023 16:02

Tgt Ion:165 Resp: 8955

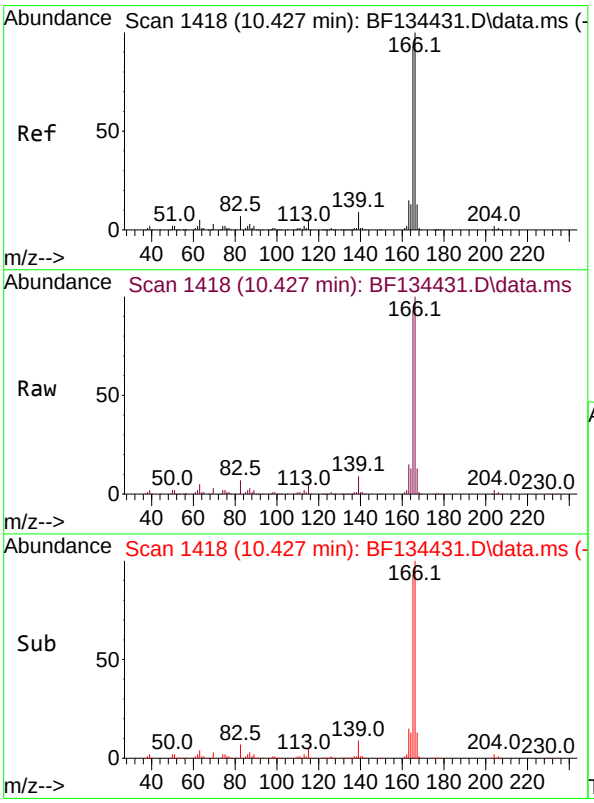
Ion	Ratio	Lower	Upper
165	100		
63	61.1	48.9	73.3
89	77.1	61.7	92.5
182	2.5	2.0	3.0



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

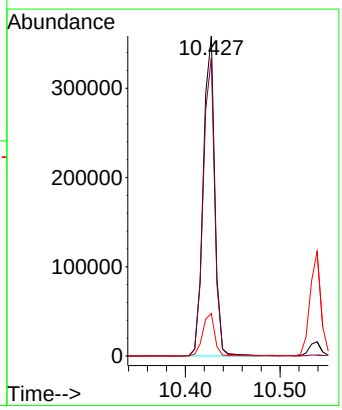
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

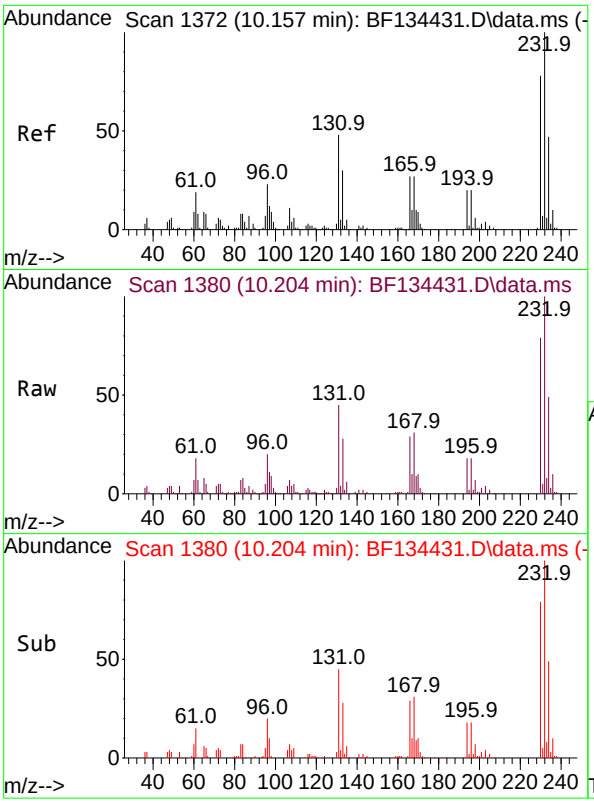


#58
Fluorene
Concen: 41.059 ng
RT: 10.427 min Scan# 1418
Delta R.T. 0.000 min
Lab File: BF134431.D
Acq: 24 Jul 2023 16:02

Tgt Ion:166 Resp: 300002

Ion	Ratio	Lower	Upper
166	100		
165	93.1	74.5	111.7
167	13.3	10.6	16.0

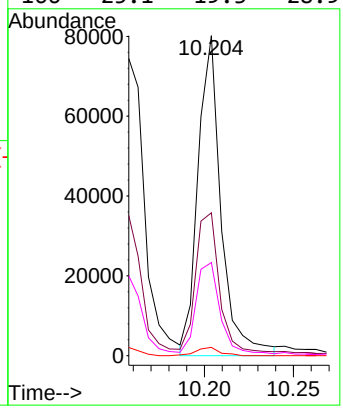




#59
2,3,4,6-Tetrachlorophenol
Concen: 40.972 ng m
RT: 10.204 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134431.D
Acq: 24 Jul 2023 16:02

Tgt Ion:232 Resp: 7263

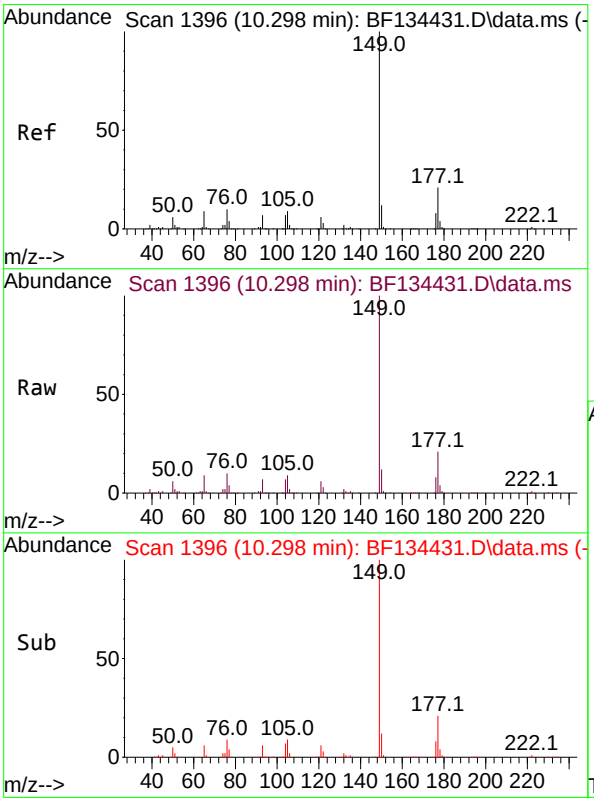
Ion	Ratio	Lower	Upper
232	100		
131	43.5	33.4	50.0
130	2.3	1.8	2.6
166	25.1	19.3	28.9



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

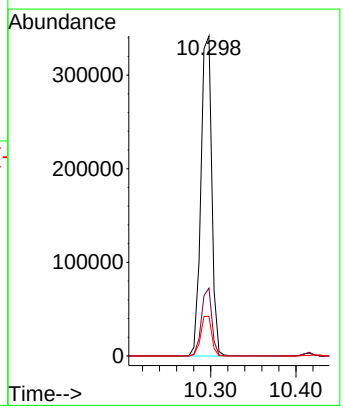
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

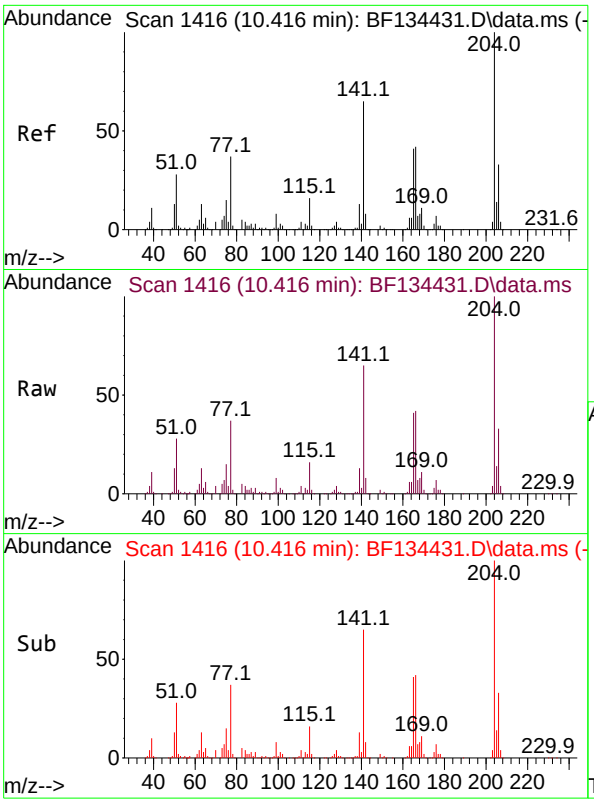


#60
Diethylphthalate
Concen: 40.653 ng
RT: 10.298 min Scan# 1396
Delta R.T. 0.000 min
Lab File: BF134431.D
Acq: 24 Jul 2023 16:02

Tgt Ion:149 Resp: 302783

Ion	Ratio	Lower	Upper
149	100		
177	21.2	17.0	25.4
150	12.4	9.9	14.9





#61
4-Chlorophenyl-phenylether
Concen: 41.288 ng
RT: 10.416 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF134431.D
Acq: 24 Jul 2023 16:02

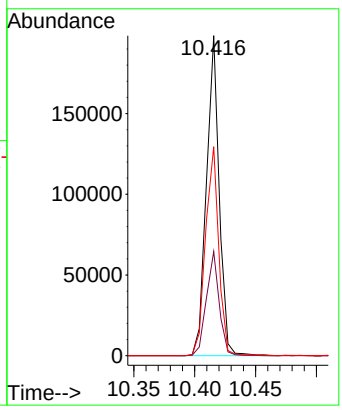
Tgt Ion:204 Resp: 144109

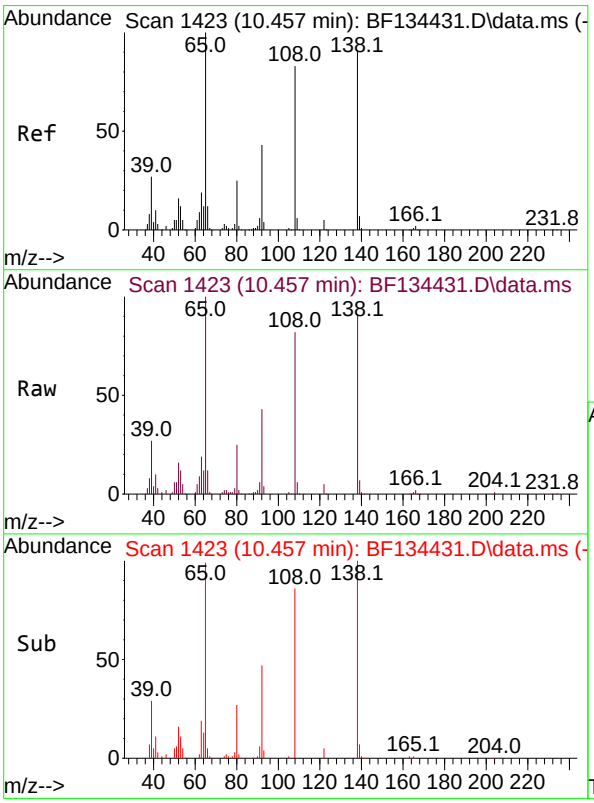
Ion	Ratio	Lower	Upper
204	100		
206	32.5	26.0	39.0
141	65.3	52.2	78.4

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

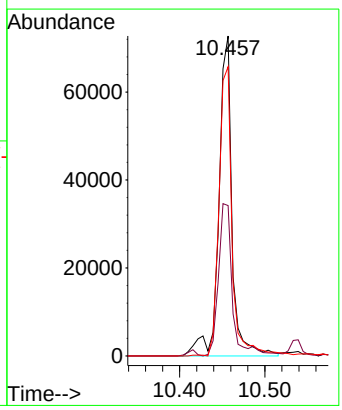


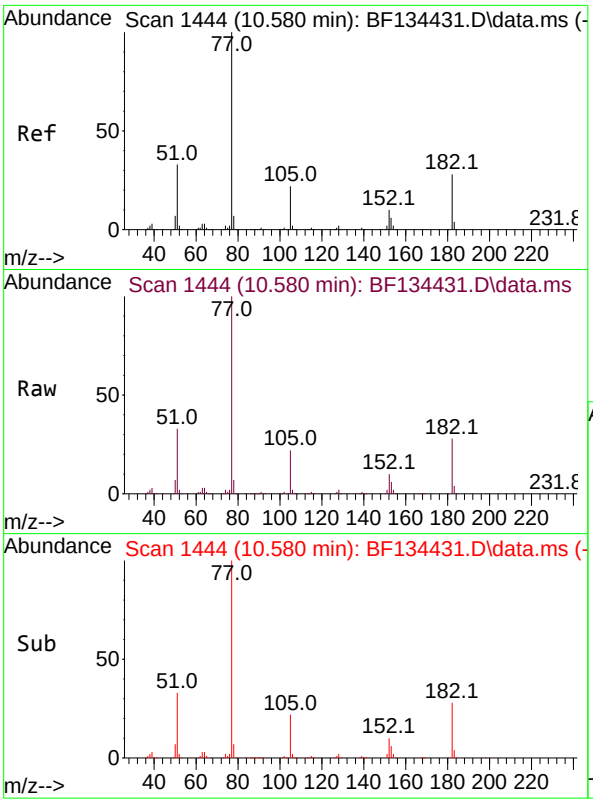


#62
4-Nitroaniline
Concen: 42.020 ng
RT: 10.457 min Scan# 1423
Delta R.T. 0.000 min
Lab File: BF134431.D
Acq: 24 Jul 2023 16:02

Tgt Ion:138 Resp: 77993

Ion	Ratio	Lower	Upper
138	100		
92	47.0	27.0	67.0
108	90.4	70.4	110.4

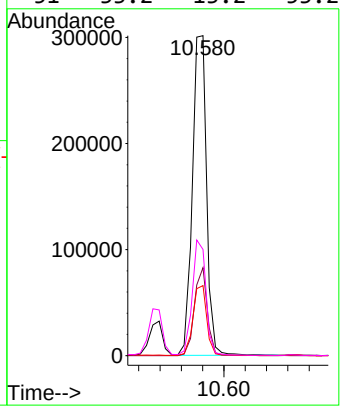




#63
Azobenzene
Concen: 40.813 ng
RT: 10.580 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF134431.D
Acq: 24 Jul 2023 16:02

Tgt Ion: 77 Resp: 27979

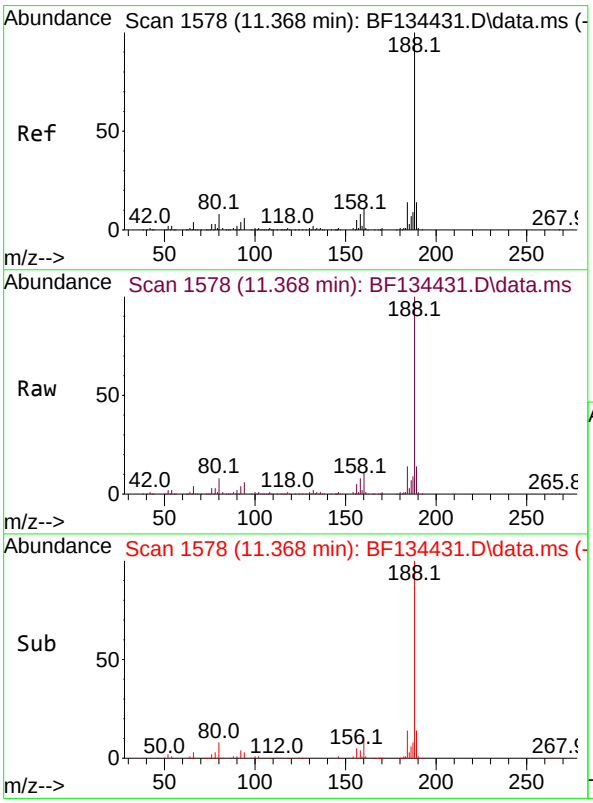
Ion	Ratio	Lower	Upper
77	100		
182	27.5	7.5	47.5
105	21.9	1.9	41.9
51	33.2	13.2	53.2



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

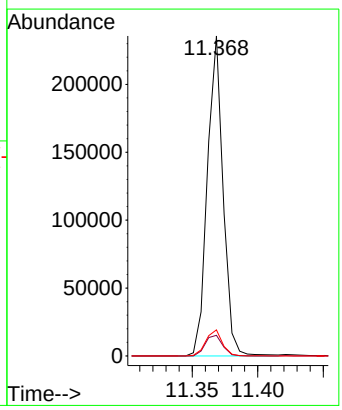
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

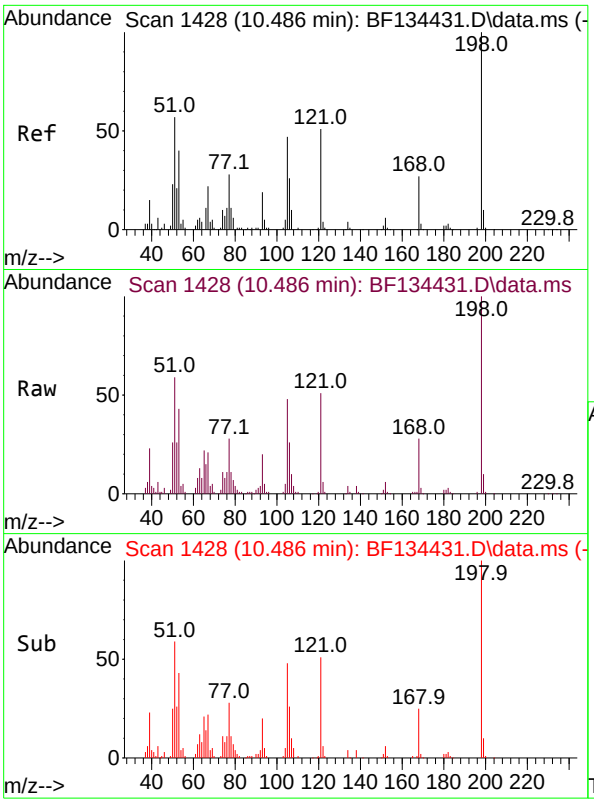


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.368 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BF134431.D
Acq: 24 Jul 2023 16:02

Tgt Ion:188 Resp: 197192

Ion	Ratio	Lower	Upper
188	100		
94	6.4	5.1	7.7
80	8.2	6.6	9.8

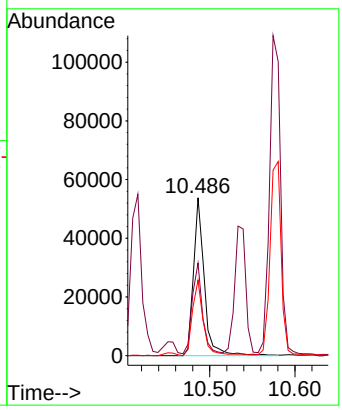




#65
4,6-Dinitro-2-methylphenol
Concen: 42.218 ng
RT: 10.486 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF134431.D
Acq: 24 Jul 2023 16:02

Tgt Ion:198 Resp: 4775

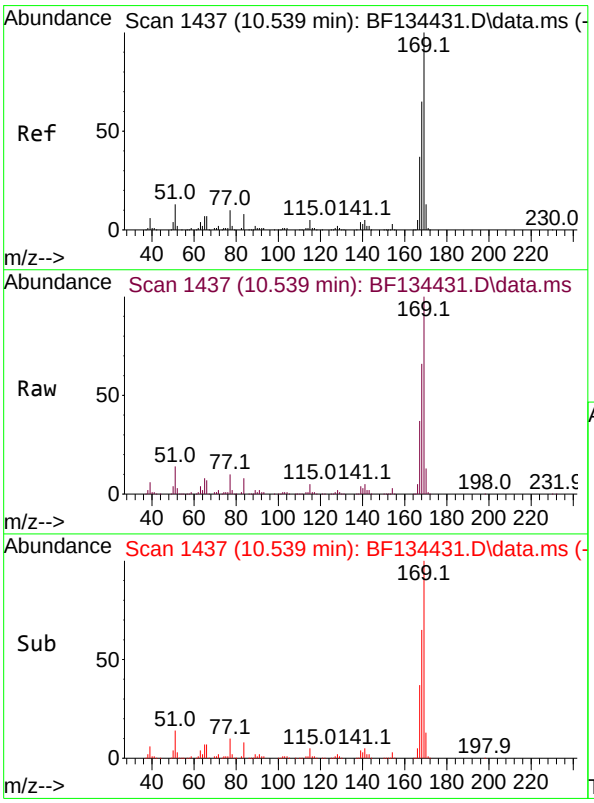
Ion	Ratio	Lower	Upper
198	100		
51	58.6	38.6	78.6
105	47.9	27.9	67.9



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

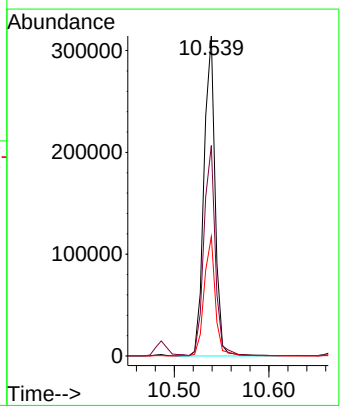
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

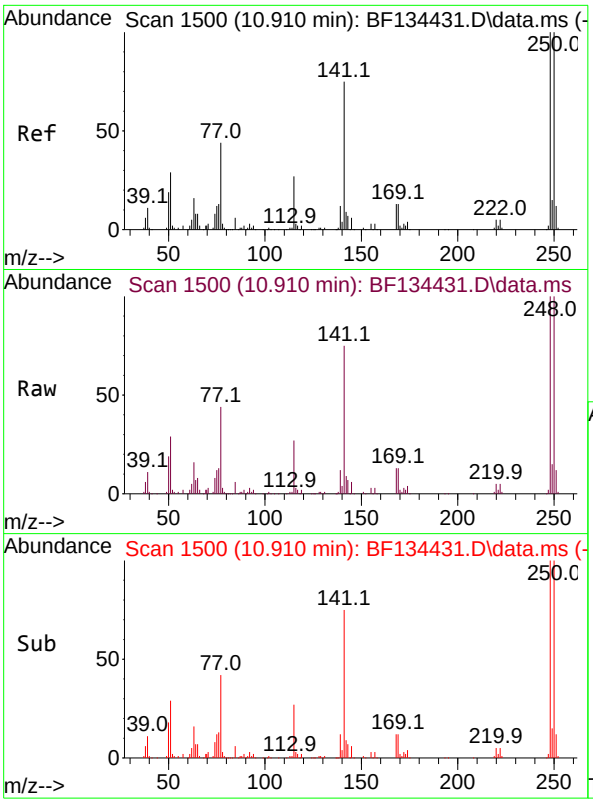


#66
n-Nitrosodiphenylamine
Concen: 41.043 ng
RT: 10.539 min Scan# 1437
Delta R.T. 0.000 min
Lab File: BF134431.D
Acq: 24 Jul 2023 16:02

Tgt Ion:169 Resp: 257495

Ion	Ratio	Lower	Upper
169	100		
168	65.7	52.6	78.8
167	37.3	29.8	44.8

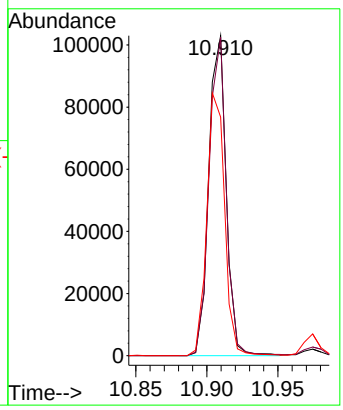




#67
4-Bromophenyl-phenylether
Concen: 40.531 ng
RT: 10.910 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134431.D
Acq: 24 Jul 2023 16:02

Tgt Ion:248 Resp: 8756

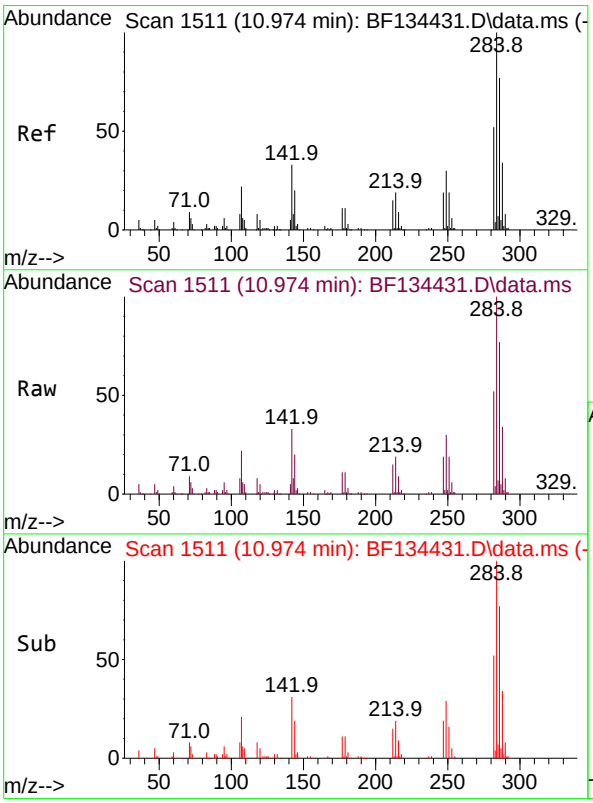
Ion	Ratio	Lower	Upper
248	100		
250	99.5	79.6	119.4
141	74.5	59.6	89.4



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

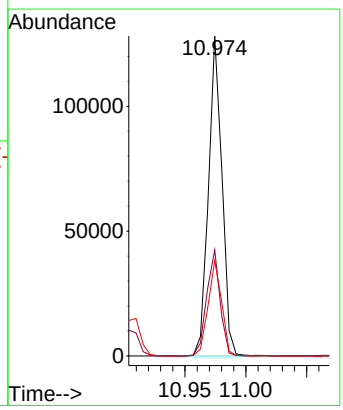
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

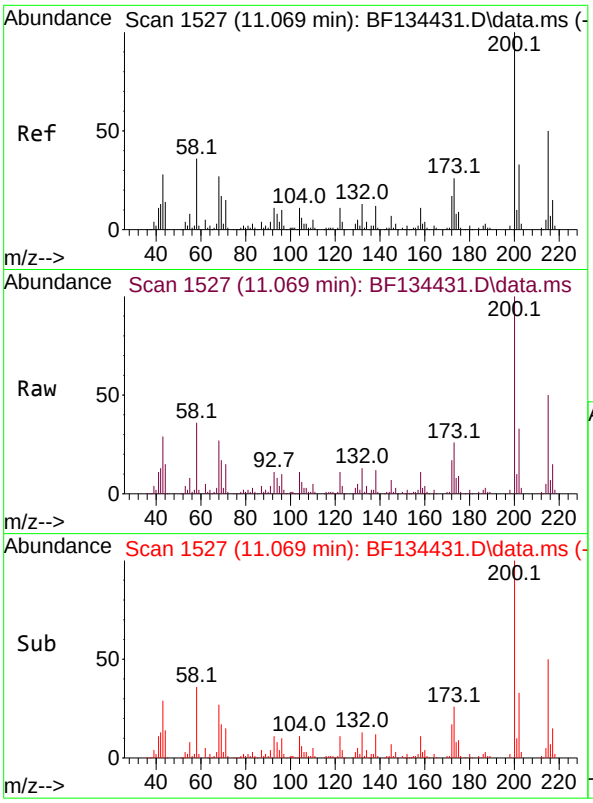


#68
Hexachlorobenzene
Concen: 40.524 ng
RT: 10.974 min Scan# 1511
Delta R.T. 0.000 min
Lab File: BF134431.D
Acq: 24 Jul 2023 16:02

Tgt Ion:284 Resp: 98592

Ion	Ratio	Lower	Upper
284	100		
142	33.1	26.5	39.7
249	29.8	23.8	35.8

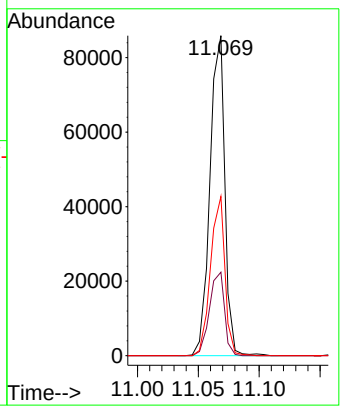




#69
Atrazine
Concen: 41.862 ng
RT: 11.069 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134431.D
Acq: 24 Jul 2023 16:02

Tgt Ion:200 Resp: 7322

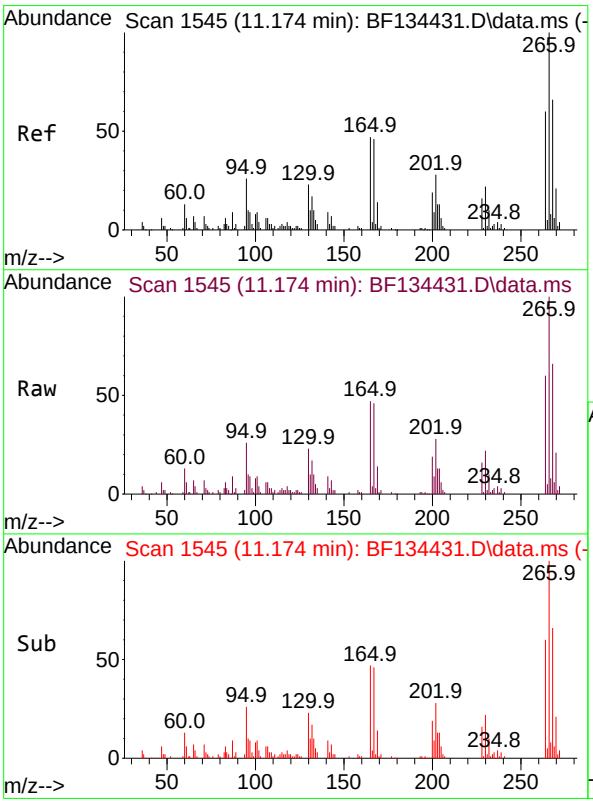
Ion	Ratio	Lower	Upper
200	100		
173	26.1	6.1	46.1
215	49.7	29.7	69.7



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

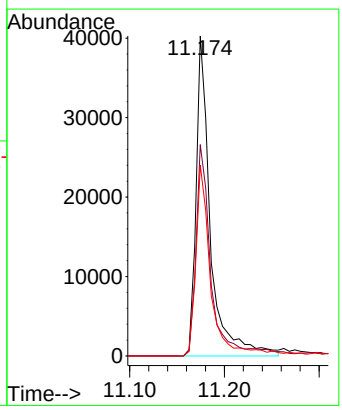
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

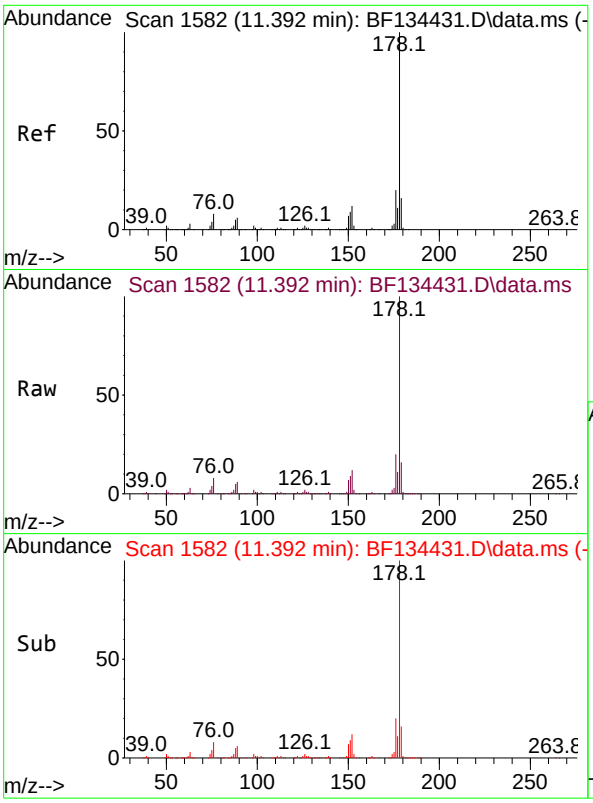


#70
Pentachlorophenol
Concen: 41.650 ng
RT: 11.174 min Scan# 1545
Delta R.T. 0.000 min
Lab File: BF134431.D
Acq: 24 Jul 2023 16:02

Tgt Ion:266 Resp: 42525

Ion	Ratio	Lower	Upper
266	100		
268	66.1	52.9	79.3
264	59.7	47.8	71.6

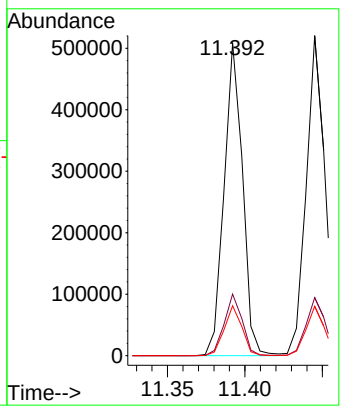




#71
Phenanthrene
Concen: 40.914 ng
RT: 11.392 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134431.D
Acq: 24 Jul 2023 16:02

Tgt Ion:178 Resp: 42153

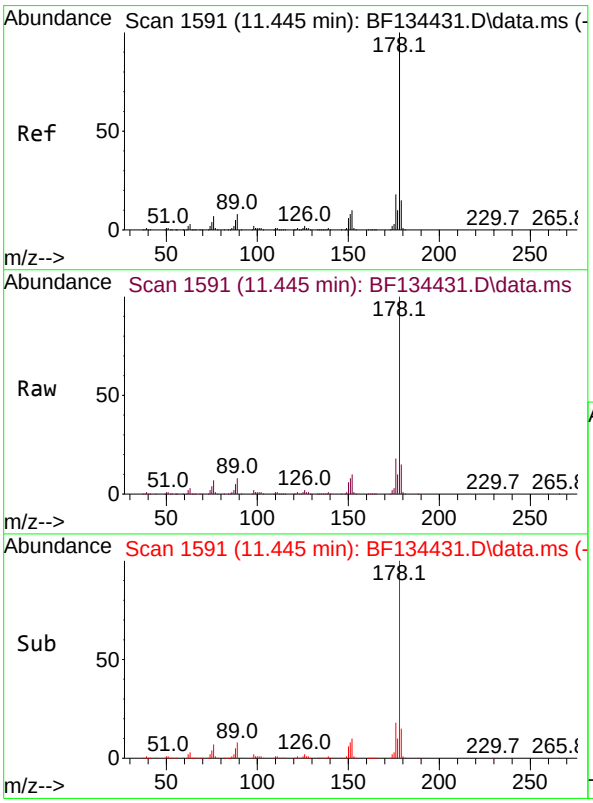
Ion	Ratio	Lower	Upper
178	100		
176	19.7	15.8	23.6
179	15.9	12.7	19.1



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

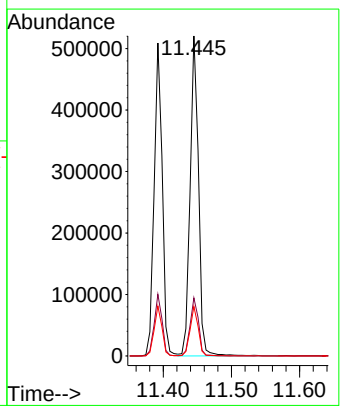
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

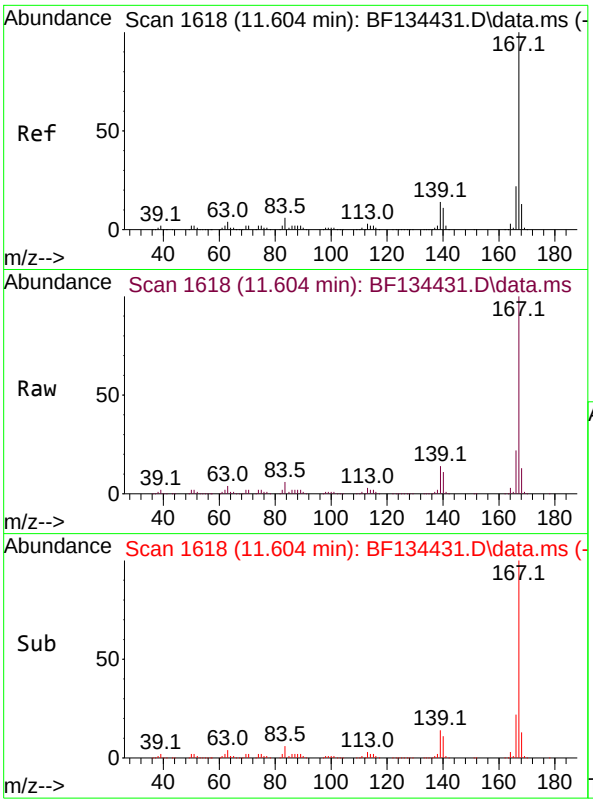


#72
Anthracene
Concen: 41.219 ng
RT: 11.445 min Scan# 1591
Delta R.T. 0.000 min
Lab File: BF134431.D
Acq: 24 Jul 2023 16:02

Tgt Ion:178 Resp: 438318

Ion	Ratio	Lower	Upper
178	100		
176	18.2	14.6	21.8
179	15.4	12.3	18.5

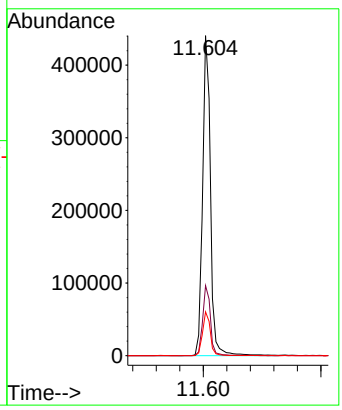




#73
Carbazole
Concen: 40.610 ng
RT: 11.604 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134431.D
Acq: 24 Jul 2023 16:02

Tgt Ion:167 Resp: 40665

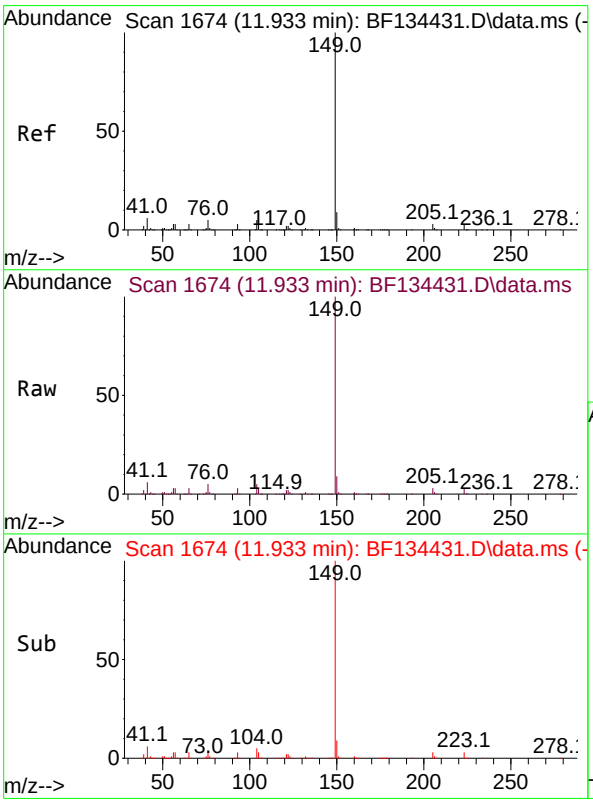
Ion	Ratio	Lower	Upper
167	100		
166	21.9	17.5	26.3
139	13.7	11.0	16.4



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

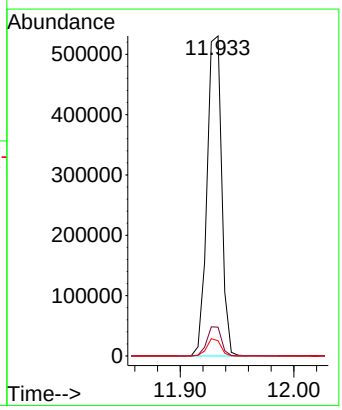
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

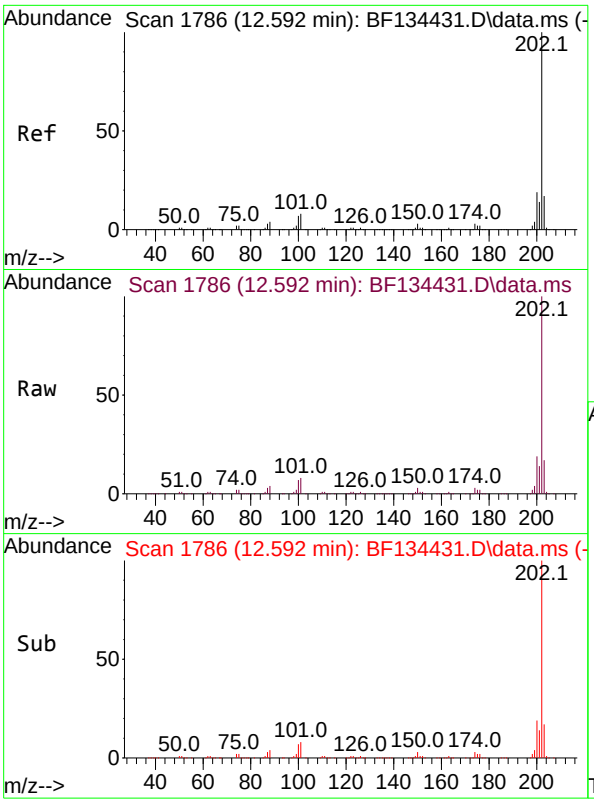


#74
Di-n-butylphthalate
Concen: 41.083 ng
RT: 11.933 min Scan# 1674
Delta R.T. 0.000 min
Lab File: BF134431.D
Acq: 24 Jul 2023 16:02

Tgt Ion:149 Resp: 472250

Ion	Ratio	Lower	Upper
149	100		
150	9.0	7.2	10.8
104	4.8	3.8	5.8

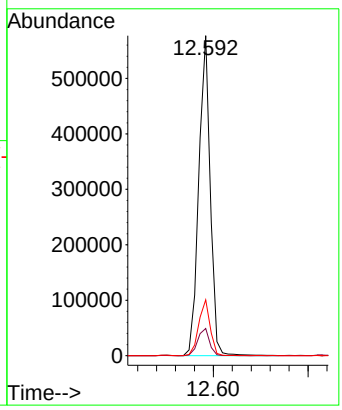




#75
Fluoranthene
Concen: 40.379 ng
RT: 12.592 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134431.D
Acq: 24 Jul 2023 16:02

Tgt Ion:202 Resp: 48484

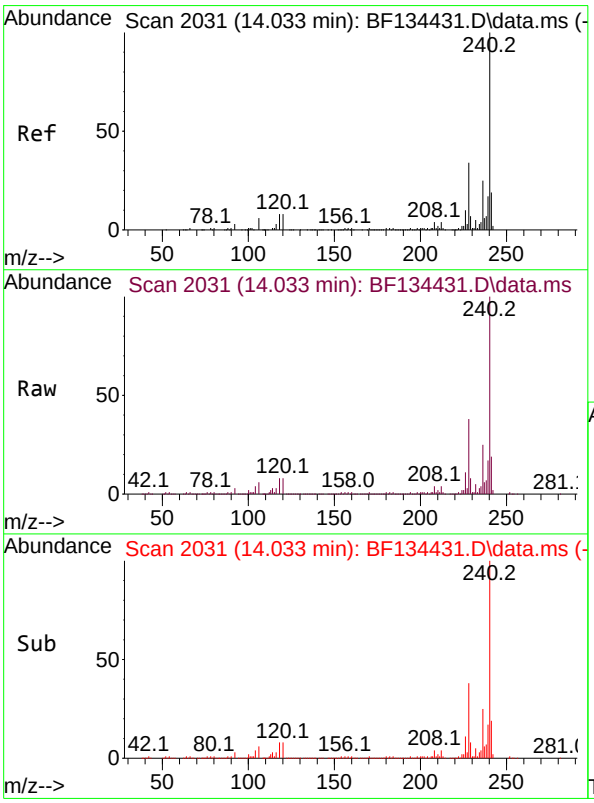
Ion	Ratio	Lower	Upper
202	100		
101	8.5	0.0	28.5
203	17.5	0.0	37.5



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

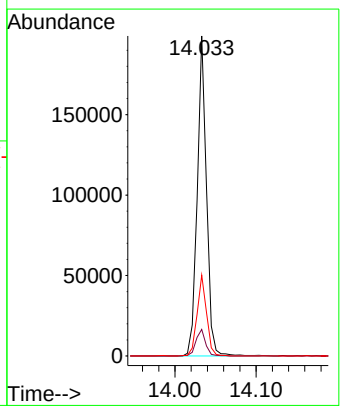
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

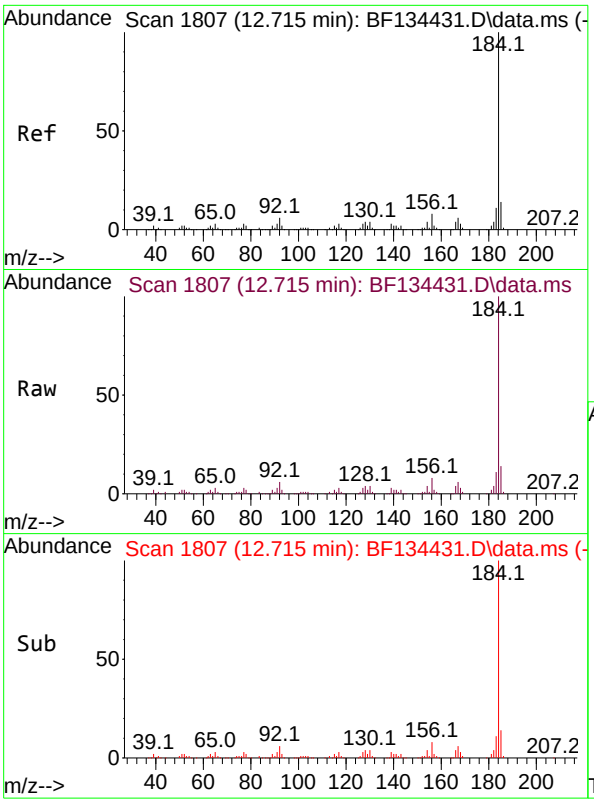


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.033 min Scan# 2031
Delta R.T. 0.000 min
Lab File: BF134431.D
Acq: 24 Jul 2023 16:02

Tgt Ion:240 Resp: 158553

Ion	Ratio	Lower	Upper
240	100		
120	8.3	6.6	10.0
236	25.2	20.2	30.2

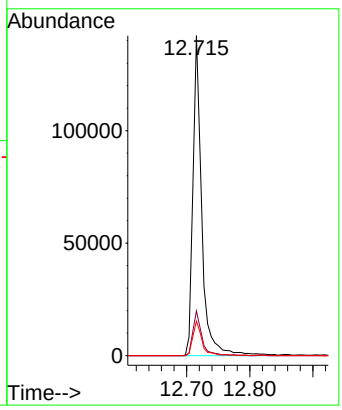




#77
Benzidine
Concen: 41.093 ng
RT: 12.715 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134431.D
Acq: 24 Jul 2023 16:02

Tgt Ion:184 Resp: 13911

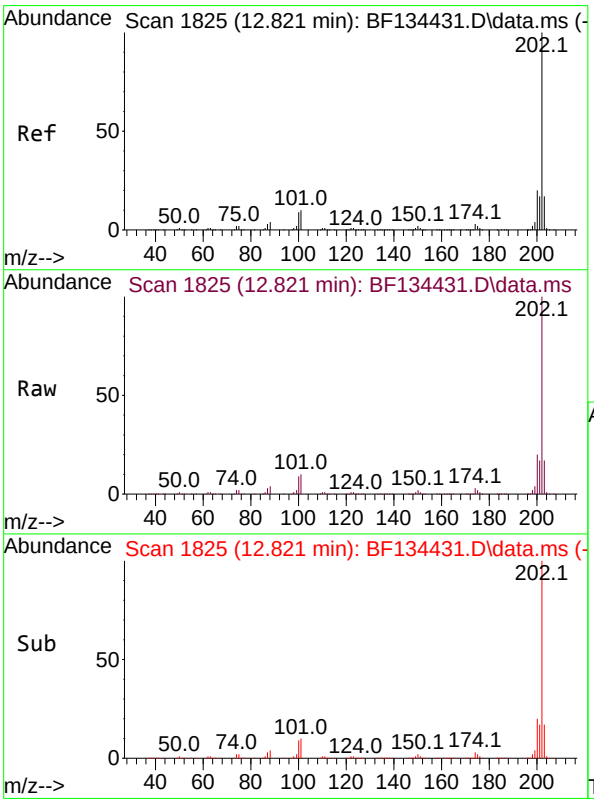
Ion	Ratio	Lower	Upper
184	100		
185	14.0	11.2	16.8
183	10.8	8.6	13.0



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

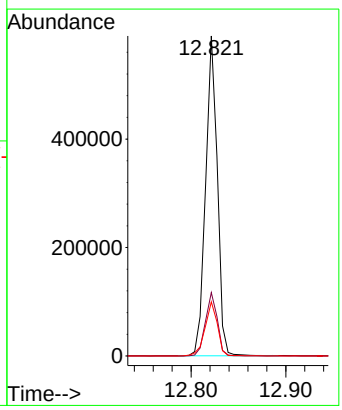
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

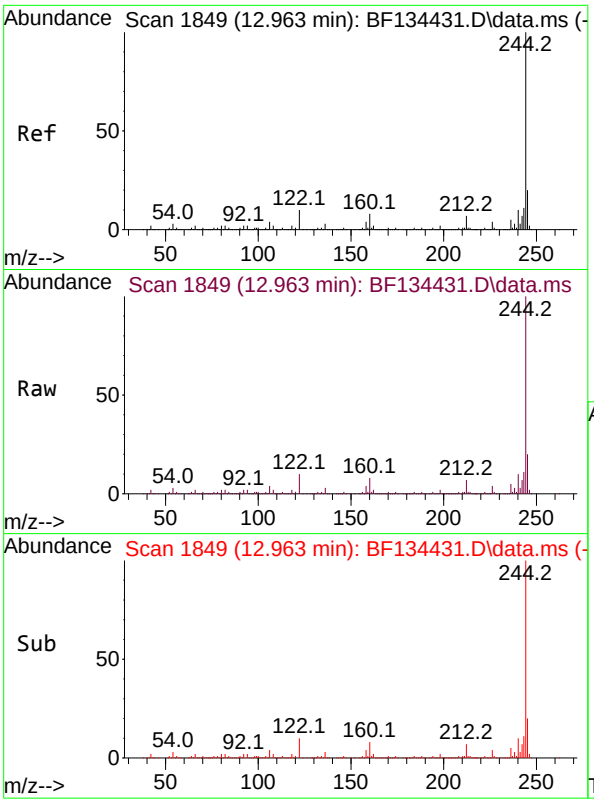


#78
Pyrene
Concen: 40.091 ng
RT: 12.821 min Scan# 1825
Delta R.T. 0.000 min
Lab File: BF134431.D
Acq: 24 Jul 2023 16:02

Tgt Ion:202 Resp: 505419

Ion	Ratio	Lower	Upper
202	100		
200	19.8	15.8	23.8
203	16.9	13.5	20.3

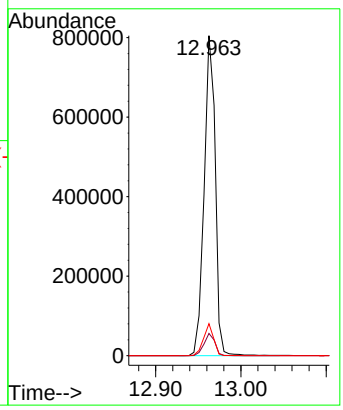




#79
Terphenyl-d14
Concen: 80.103 ng
RT: 12.963 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134431.D
Acq: 24 Jul 2023 16:02

Tgt Ion:244 Resp: 72754

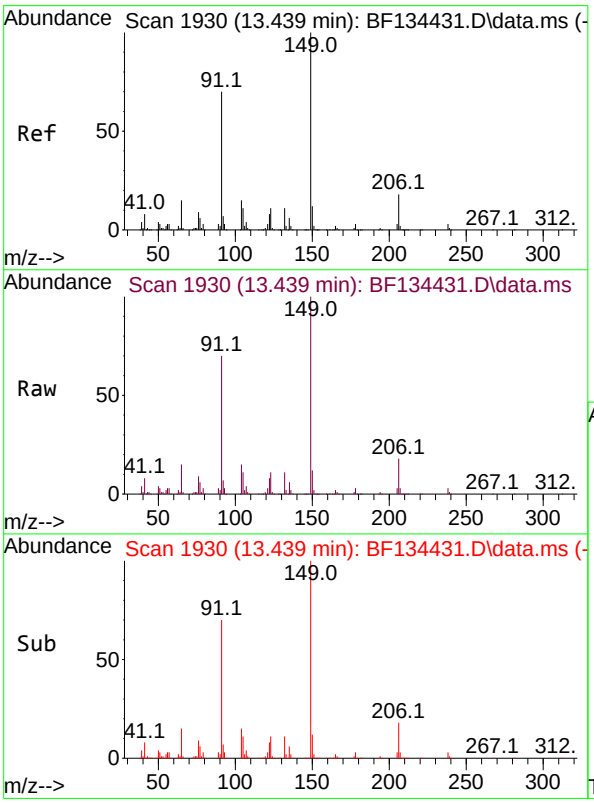
Ion	Ratio	Lower	Upper
244	100		
212	7.0	5.6	8.4
122	10.0	8.0	12.0



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

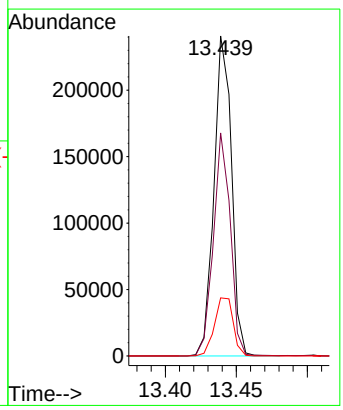
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

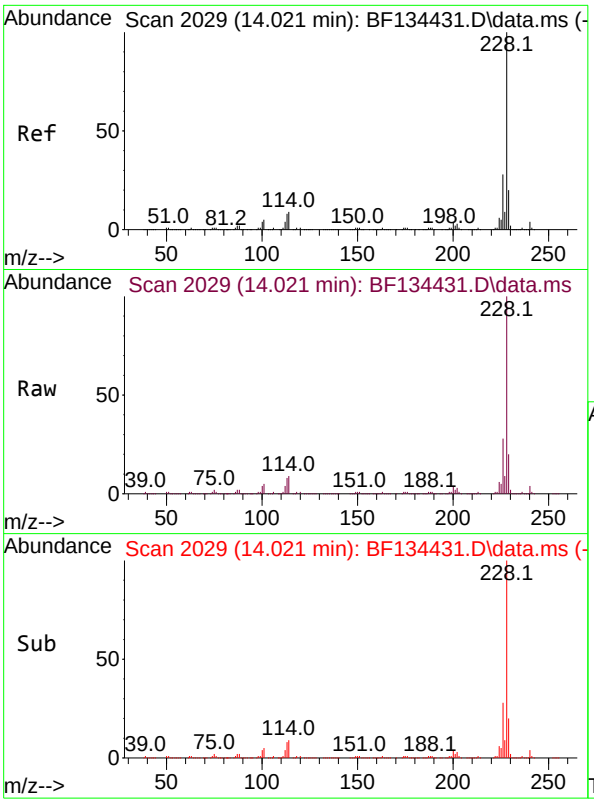


#80
Butylbenzylphthalate
Concen: 40.974 ng
RT: 13.439 min Scan# 1930
Delta R.T. 0.000 min
Lab File: BF134431.D
Acq: 24 Jul 2023 16:02

Tgt Ion:149 Resp: 206915

Ion	Ratio	Lower	Upper
149	100		
91	69.7	55.8	83.6
206	18.2	14.6	21.8

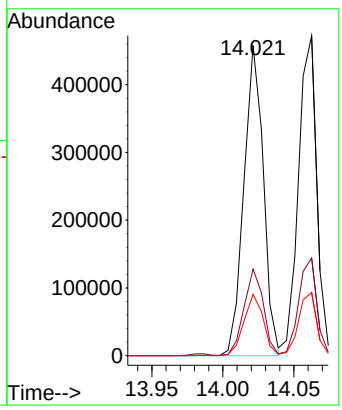




#81
Benzo(a)anthracene
Concen: 39.594 ng
RT: 14.021 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF134431.D
Acq: 24 Jul 2023 16:02

Tgt Ion:228 Resp: 43798

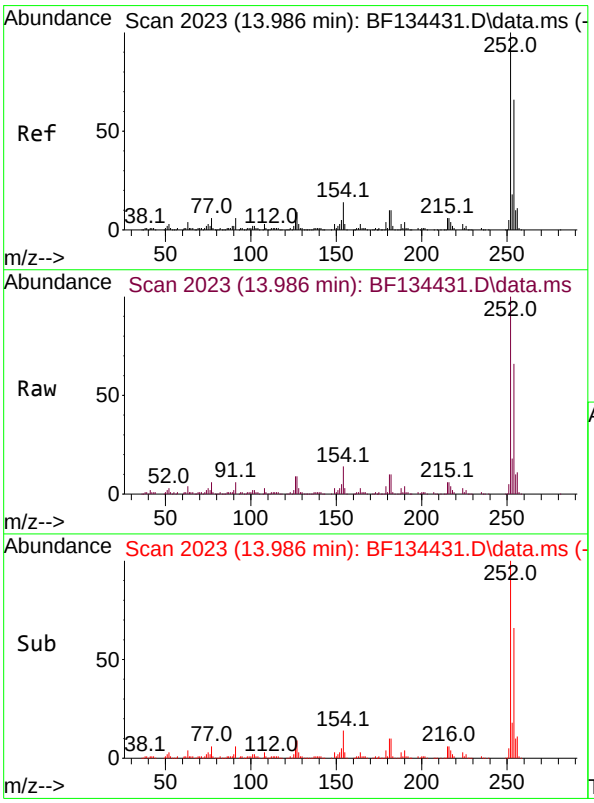
Ion	Ratio	Lower	Upper
228	100		
226	27.9	22.3	33.5
229	19.7	15.8	23.6



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

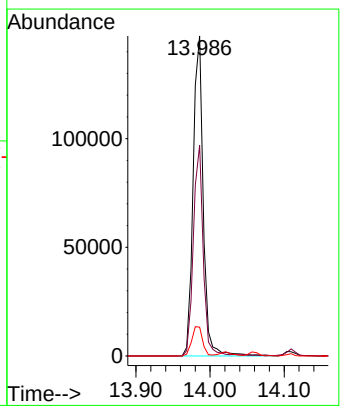
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

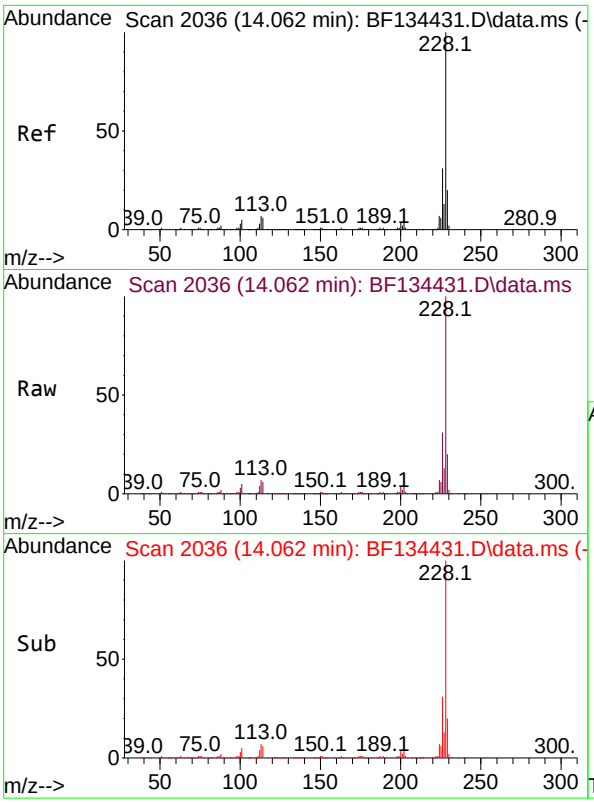


#82
3,3'-Dichlorobenzidine
Concen: 39.893 ng
RT: 13.986 min Scan# 2023
Delta R.T. 0.000 min
Lab File: BF134431.D
Acq: 24 Jul 2023 16:02

Tgt Ion:252 Resp: 139770

Ion	Ratio	Lower	Upper
252	100		
254	65.9	52.7	79.1
126	9.0	7.2	10.8

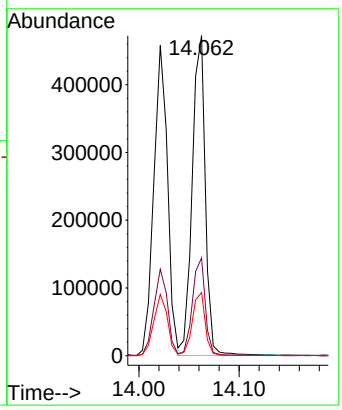




#83
Chrysene
Concen: 40.369 ng
RT: 14.062 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF134431.D
Acq: 24 Jul 2023 16:02

Tgt Ion:228 Resp: 42712

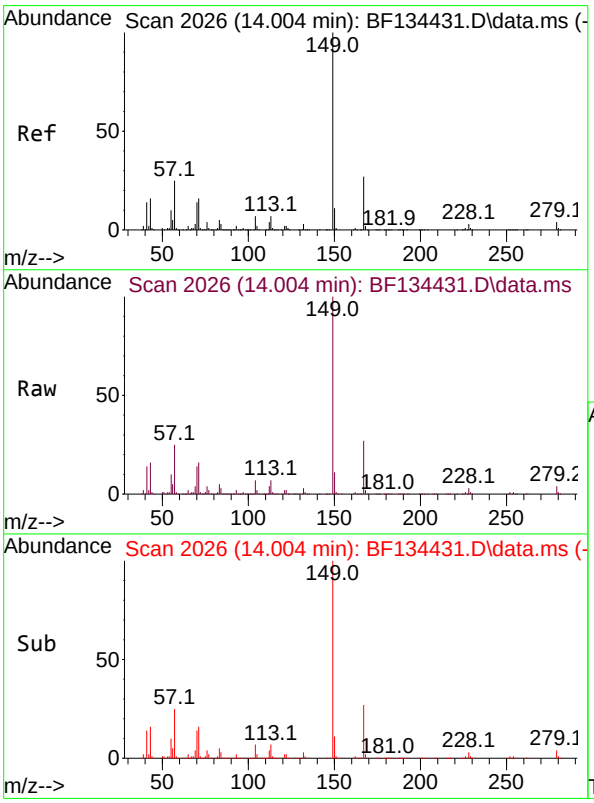
Ion	Ratio	Lower	Upper
228	100		
226	30.6	24.5	36.7
229	19.8	15.8	23.8



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

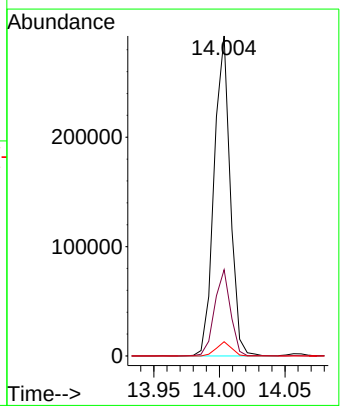
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

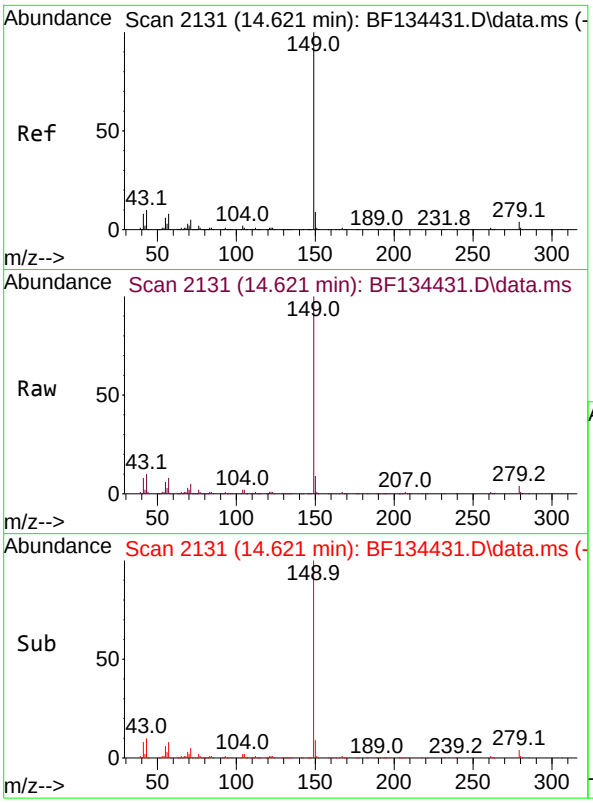


#84
Bis(2-ethylhexyl)phthalate
Concen: 40.747 ng
RT: 14.004 min Scan# 2026
Delta R.T. 0.000 min
Lab File: BF134431.D
Acq: 24 Jul 2023 16:02

Tgt Ion:149 Resp: 249982

Ion	Ratio	Lower	Upper
149	100		
167	27.0	21.6	32.4
279	4.4	3.5	5.3

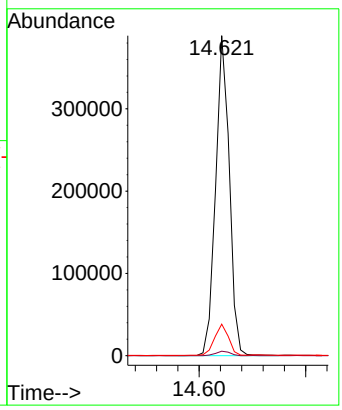




#85
Di-n-octyl phthalate
Concen: 40.621 ng
RT: 14.621 min Scan# 21
Delta R.T. 0.000 min
Lab File: BF134431.D
Acq: 24 Jul 2023 16:02

Tgt Ion:149 Resp: 34632

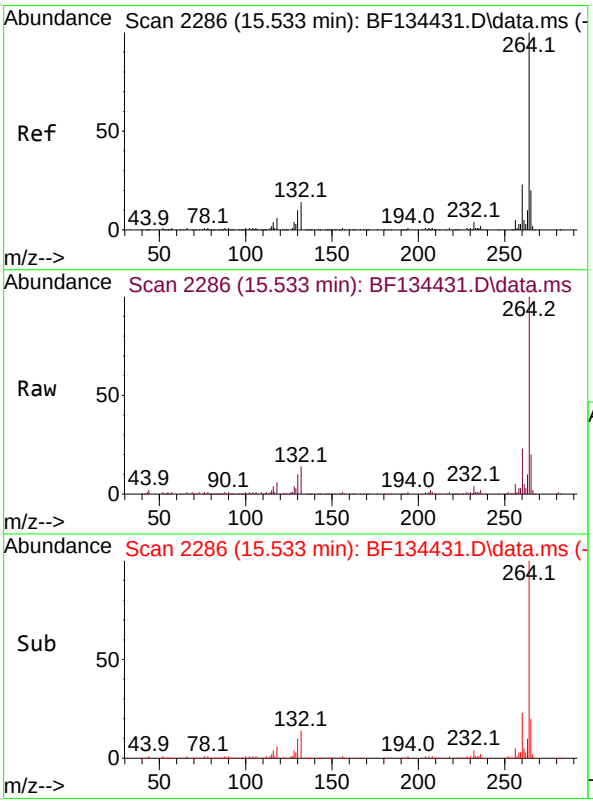
Ion	Ratio	Lower	Upper
149	100		
167	1.5	1.2	1.8
43	10.1	8.1	12.1



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

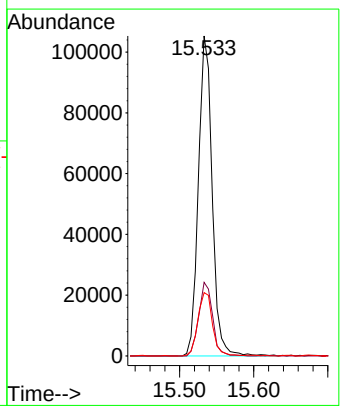
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

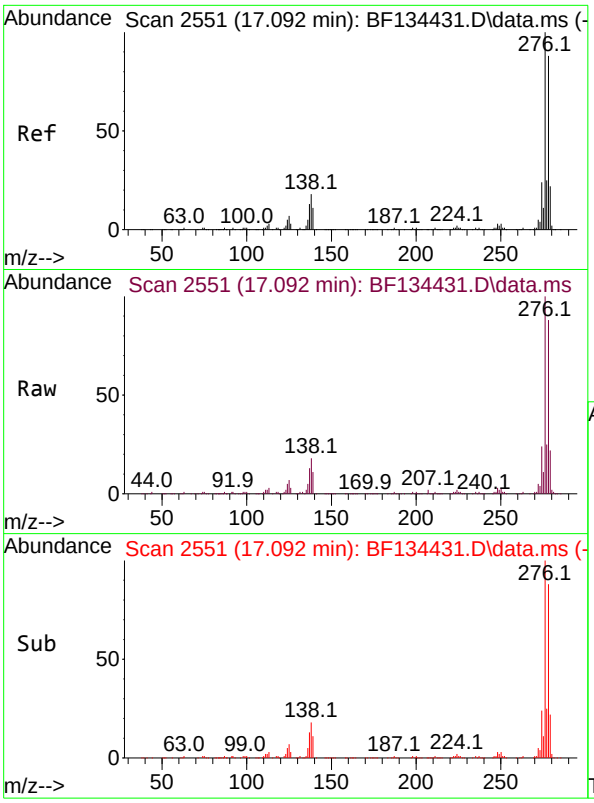


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.533 min Scan# 2286
Delta R.T. 0.000 min
Lab File: BF134431.D
Acq: 24 Jul 2023 16:02

Tgt Ion:264 Resp: 135964

Ion	Ratio	Lower	Upper
264	100		
260	23.0	18.4	27.6
265	19.8	15.8	23.8

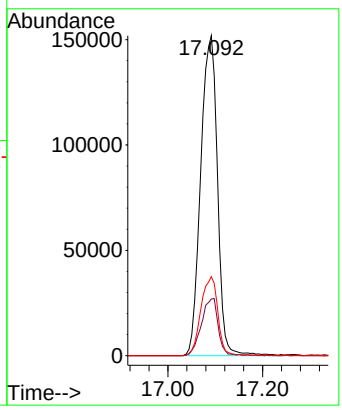




#87
Indeno(1,2,3-cd)pyrene
Concen: 41.973 ng
RT: 17.092 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF134431.D
Acq: 24 Jul 2023 16:02

Tgt Ion:276 Resp: 37283

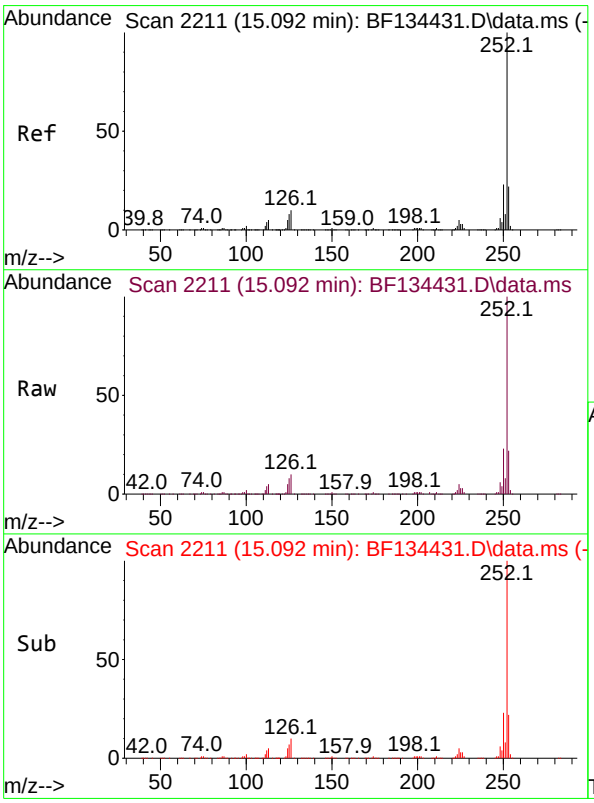
Ion	Ratio	Lower	Upper
276	100		
138	17.8	14.2	21.4
277	24.9	19.9	29.9



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

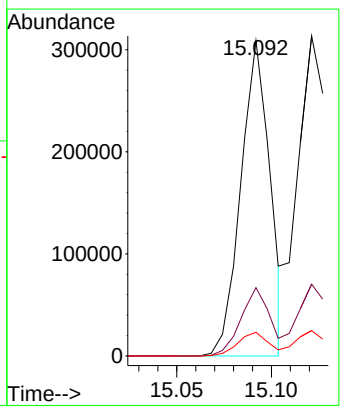
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

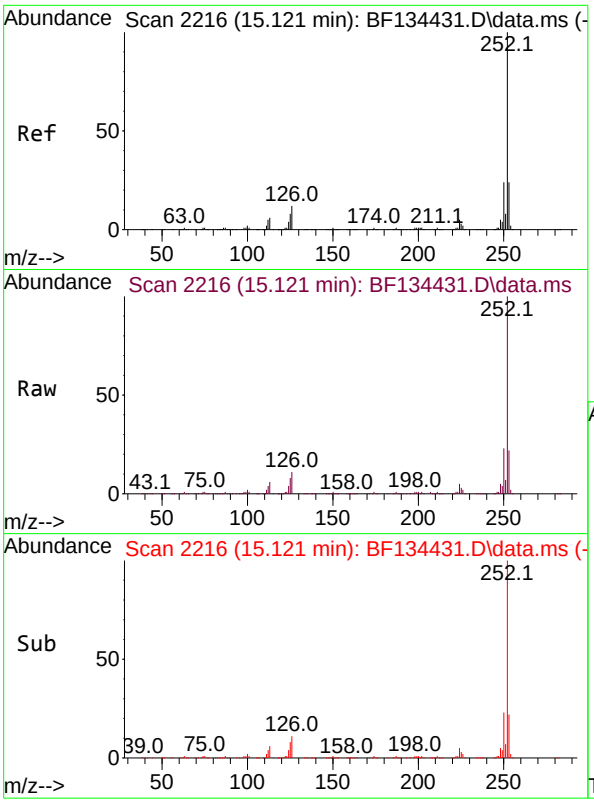


#88
Benzo(b)fluoranthene
Concen: 38.890 ng
RT: 15.092 min Scan# 2211
Delta R.T. 0.000 min
Lab File: BF134431.D
Acq: 24 Jul 2023 16:02

Tgt Ion:252 Resp: 330796

Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.3	25.9
125	7.5	6.0	9.0

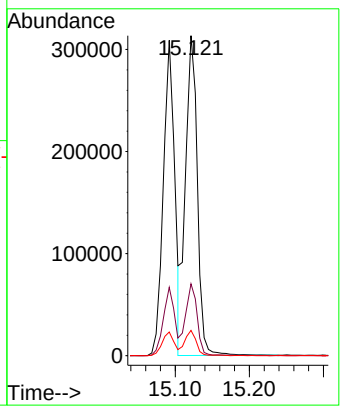




#89
Benzo(k)fluoranthene
Concen: 41.739 ng
RT: 15.121 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF134431.D
Acq: 24 Jul 2023 16:02

Tgt Ion:252 Resp: 34923

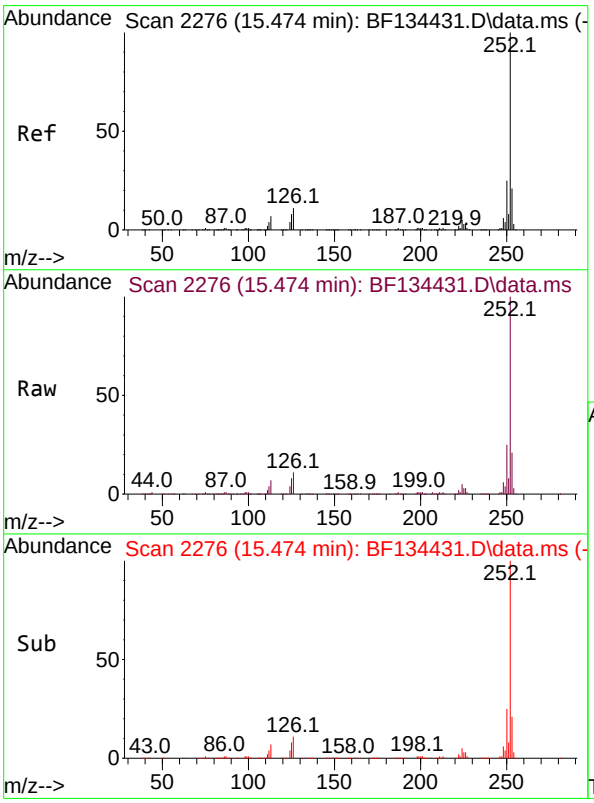
Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.9	26.9
125	7.9	6.3	9.5



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

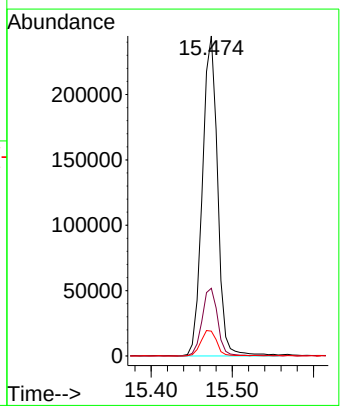
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

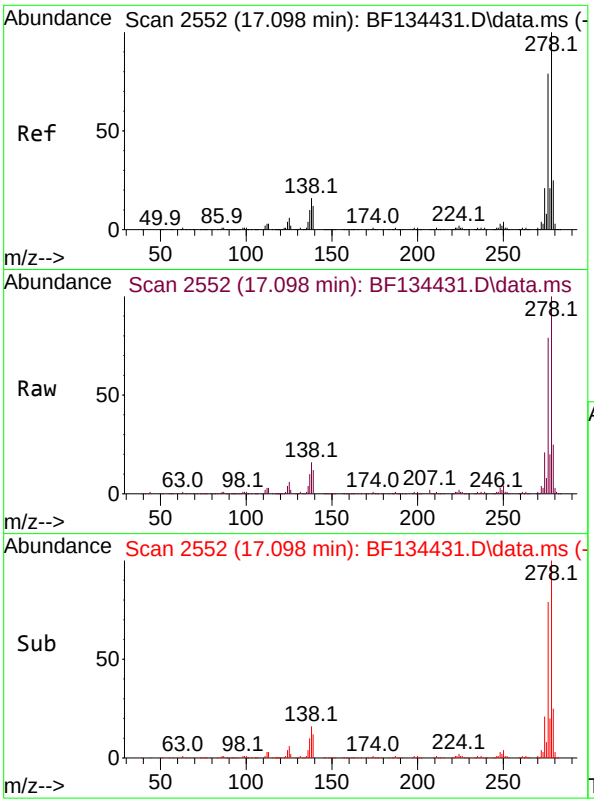


#90
Benzo(a)pyrene
Concen: 40.541 ng
RT: 15.474 min Scan# 2276
Delta R.T. 0.000 min
Lab File: BF134431.D
Acq: 24 Jul 2023 16:02

Tgt Ion:252 Resp: 318740

Ion	Ratio	Lower	Upper
252	100		
253	21.2	17.0	25.4
125	7.8	6.2	9.4

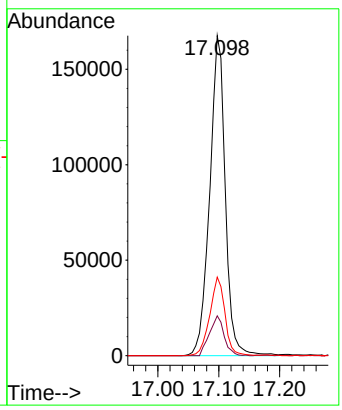




#91
Dibenzo(a,h)anthracene
Concen: 41.701 ng
RT: 17.098 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF134431.D
Acq: 24 Jul 2023 16:02

Tgt Ion:278 Resp: 29914

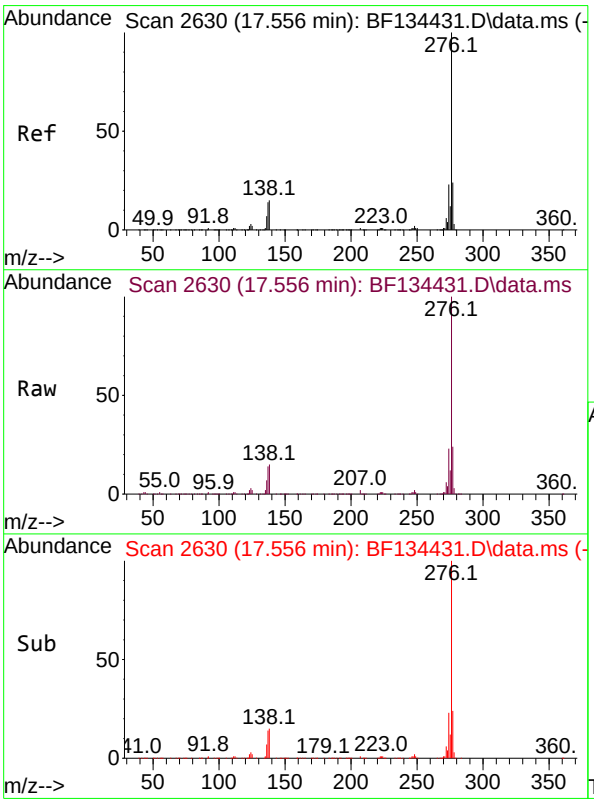
Ion	Ratio	Lower	Upper
278	100		
139	12.5	10.0	15.0
279	24.6	19.7	29.5



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

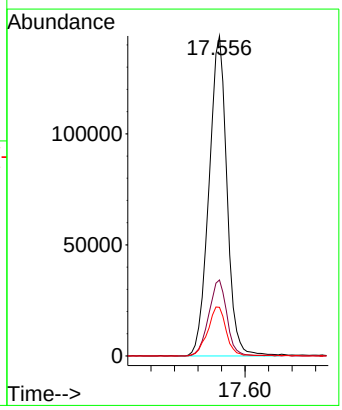
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023



#92
Benzo(g,h,i)perylene
Concen: 41.540 ng
RT: 17.556 min Scan# 2630
Delta R.T. 0.000 min
Lab File: BF134431.D
Acq: 24 Jul 2023 16:02

Tgt Ion:276 Resp: 305967

Ion	Ratio	Lower	Upper
276	100		
277	23.8	19.0	28.6
138	15.2	12.2	18.2



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF072423\
Data File : BF134432.D
Acq On : 24 Jul 2023 16:36
Operator : CG\JU
Sample : SSTDICC050
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 25 01:37:54 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF072423.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 25 01:30:14 2023
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.834	152	62665	20.000	ng		0.00
21) Naphthalene-d8	8.116	136	217369	20.000	ng	#	0.00
39) Acenaphthene-d10	9.875	164	109397	20.000	ng		0.00
64) Phenanthrene-d10	11.369	188	221212	20.000	ng		0.00
76) Chrysene-d12	14.033	240	167180	20.000	ng		0.00
86) Perylene-d12	15.539	264	149772	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.469	112	365339	96.323	ng		0.00
7) Phenol-d6	6.481	99	440842	94.866	ng		0.00
23) Nitrobenzene-d5	7.404	82	421536	98.116	ng		0.00
42) 2,4,6-Tribromophenol	10.669	330	151365	97.383	ng		0.00
45) 2-Fluorobiphenyl	9.192	172	780785	93.696	ng		0.00
79) Terphenyl-d14	12.969	244	956270	99.852	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.587	88	76004	47.243	ng		95
3) Pyridine	3.375	79	186709	51.790	ng		98
4) n-Nitrosodimethylamine	3.352	42	110527	51.790	ng	#	94
6) Aniline	6.504	93	261904	47.820	ng		93
8) 2-Chlorophenol	6.628	128	182102	47.392	ng		94
9) Benzaldehyde	6.393	77	110508	44.407	ng		99
10) Phenol	6.493	94	228255	47.209	ng		99
11) bis(2-Chloroethyl)ether	6.581	93	157377	46.626	ng		93
12) 1,3-Dichlorobenzene	6.775	146	194329	47.031	ng		98
13) 1,4-Dichlorobenzene	6.851	146	194971	45.853	ng		99
14) 1,2-Dichlorobenzene	7.004	146	185443	46.427	ng		98
15) Benzyl Alcohol	6.987	79	173682	48.885	ng		98
16) 2,2'-oxybis(1-Chloropr...	7.110	45	237263	47.734	ng		99
17) 2-Methylphenol	7.092	107	159366	46.505	ng		97
18) Hexachloroethane	7.340	117	76377	46.754	ng		97
19) n-Nitroso-di-n-propyla...	7.251	70	134022	46.329	ng		97
20) 3+4-Methylphenols	7.251	107	202728	46.205	ng		96
22) Acetophenone	7.251	105	258862	47.884	ng		96
24) Nitrobenzene	7.422	77	209048	48.926	ng		97
25) Isophorone	7.657	82	349876	48.864	ng		99
26) 2-Nitrophenol	7.734	139	98246	49.993	ng		96
27) 2,4-Dimethylphenol	7.775	122	150624	48.569	ng		96
28) bis(2-Chloroethoxy)met...	7.869	93	196614	49.332	ng		100
29) 2,4-Dichlorophenol	7.981	162	150389	48.510	ng		97
30) 1,2,4-Trichlorobenzene	8.057	180	161694	48.352	ng		99
31) Naphthalene	8.139	128	516543	47.748	ng		99
32) Benzoic acid	7.910	122	103757	50.665	ng	#	85
33) 4-Chloroaniline	8.192	127	214310	47.926	ng		97
34) Hexachlorobutadiene	8.251	225	106819	47.681	ng		96
35) Caprolactam	8.575	113	46840	49.507	ng		95
36) 4-Chloro-3-methylphenol	8.675	107	174965	48.912	ng		99
37) 2-Methylnaphthalene	8.828	142	358390	47.680	ng		100
38) 1-Methylnaphthalene	8.928	142	336755	48.293	ng		96
40) 1,2,4,5-Tetrachloroben...	8.998	216	167852	48.417	ng		99
41) Hexachlorocyclopentadiene	8.975	237	49653	51.062	ng		93
43) 2,4,6-Trichlorophenol	9.110	196	106403	47.842	ng		97

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF072423\
Data File : BF134432.D
Acq On : 24 Jul 2023 16:36
Operator : CG\JU
Sample : SSTDICC050
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

Quant Time: Jul 25 01:37:54 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF072423.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 25 01:30:14 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.157	196	124040	47.870	ng		95
46) 1,1'-Biphenyl	9.292	154	426279	47.278	ng		98
47) 2-Chloronaphthalene	9.322	162	312936	47.078	ng		98
48) 2-Nitroaniline	9.422	65	117591	49.121	ng		98
49) Acenaphthylene	9.739	152	525852	46.827	ng		99
50) Dimethylphthalate	9.598	163	390947	48.208	ng		98
51) 2,6-Dinitrotoluene	9.669	165	84261	47.353	ng		90
52) Acenaphthene	9.910	154	313528	47.263	ng		98
53) 3-Nitroaniline	9.839	138	99604	48.821	ng		93
54) 2,4-Dinitrophenol	9.951	184	43209	49.053	ng		94
55) Dibenzofuran	10.081	168	483672	47.373	ng		98
56) 4-Nitrophenol	10.010	139	56858	52.261	ng	#	82
57) 2,4-Dinitrotoluene	10.075	165	115629	48.380	ng		91
58) Fluorene	10.428	166	393873	47.820	ng		99
59) 2,3,4,6-Tetrachlorophenol	10.204	232	96661m	48.370	ng		
60) Diethylphthalate	10.298	149	400763	47.732	ng		99
61) 4-Chlorophenyl-phenyle...	10.416	204	188138	47.816	ng		96
62) 4-Nitroaniline	10.457	138	103487	49.459	ng		95
63) Azobenzene	10.580	77	372951	48.258	ng		98
65) 4,6-Dinitro-2-methylph...	10.492	198	64241	50.626	ng		89
66) n-Nitrosodiphenylamine	10.539	169	334800	47.571	ng		100
67) 4-Bromophenyl-phenylether	10.910	248	116040	47.877	ng		97
68) Hexachlorobenzene	10.975	284	131236	48.084	ng		98
69) Atrazine	11.069	200	92370	47.074	ng		96
70) Pentachlorophenol	11.175	266	56822	49.609	ng		98
71) Phenanthrene	11.392	178	556083	48.113	ng		99
72) Anthracene	11.445	178	579017	48.538	ng		100
73) Carbazole	11.610	167	546966	48.691	ng		99
74) Di-n-butylphthalate	11.933	149	630181	48.870	ng		99
75) Fluoranthene	12.592	202	650378	48.283	ng		99
77) Benzidine	12.716	184	180156	50.469	ng		98
78) Pyrene	12.827	202	671256	50.497	ng		100
80) Butylbenzylphthalate	13.445	149	272386	51.155	ng		92
81) Benzo(a)anthracene	14.021	228	568822	48.768	ng		98
82) 3,3'-Dichlorobenzidine	13.986	252	177840	48.139	ng		99
83) Chrysene	14.063	228	549799	49.282	ng		97
84) Bis(2-ethylhexyl)phtha...	14.004	149	331537	51.251	ng		97
85) Di-n-octyl phthalate	14.621	149	448214	49.859	ng		100
87) Indeno(1,2,3-cd)pyrene	17.092	276	513001	52.429	ng		99
88) Benzo(b)fluoranthene	15.092	252	454641	48.522	ng		99
89) Benzo(k)fluoranthene	15.127	252	433557	47.040	ng		98
90) Benzo(a)pyrene	15.474	252	425361	49.114	ng		99
91) Dibenzo(a,h)anthracene	17.104	278	415163	52.539	ng		98
92) Benzo(g,h,i)perylene	17.562	276	431304	53.158	ng		98

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

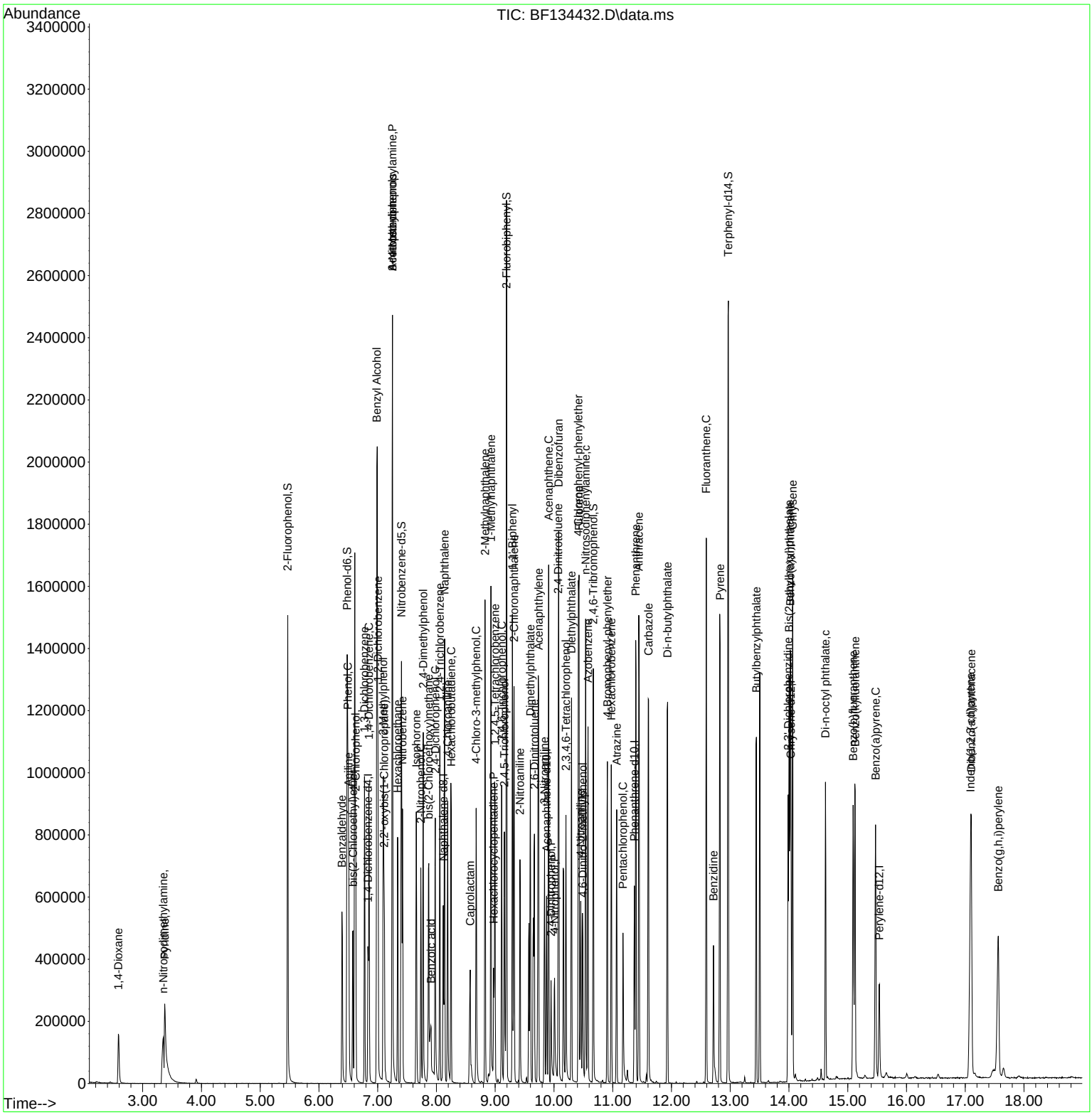
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF072423\
Data File : BF134432.D
Acq On : 24 Jul 2023 16:36
Operator : CG\JU
Sample : SSTDICC050
Misc :
ALS Vial : 8 Sample Multiplier: 1

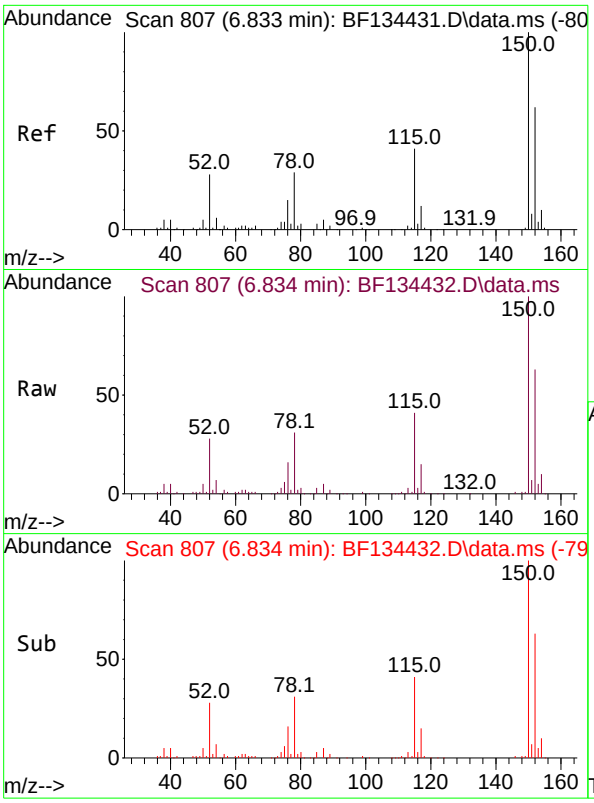
Quant Time: Jul 25 01:37:54 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF072423.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 25 01:30:14 2023
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

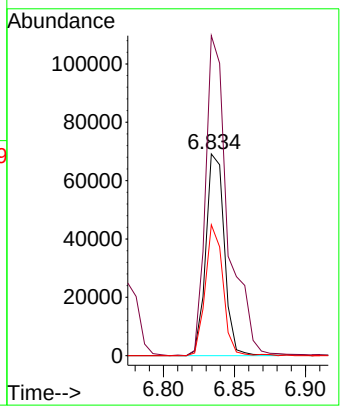




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.834 min Scan# 8
Delta R.T. 0.001 min
Lab File: BF134432.D
Acq: 24 Jul 2023 16:36

Tgt Ion:152 Resp: 6266

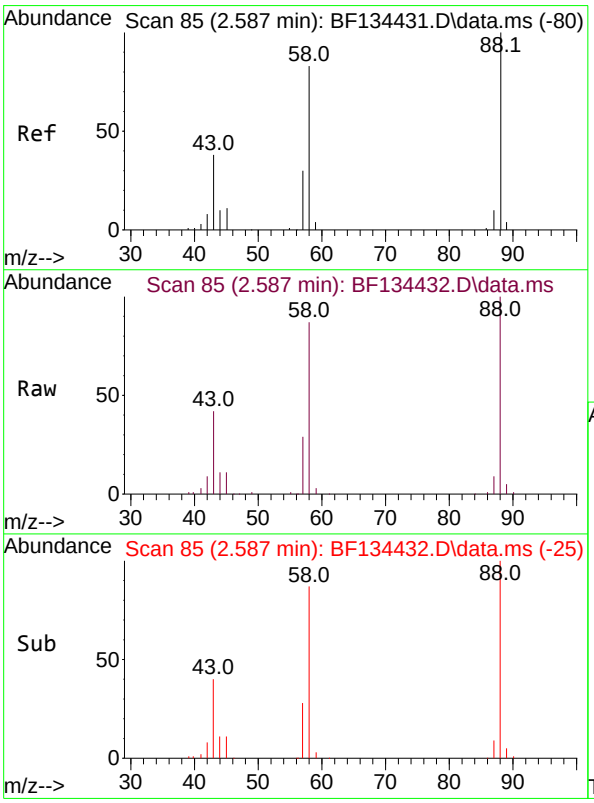
Ion	Ratio	Lower	Upper
152	100		
150	158.6	128.3	192.5
115	64.8	52.4	78.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

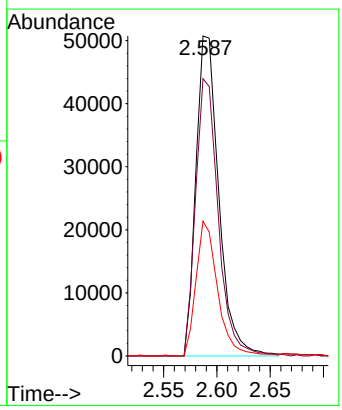
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

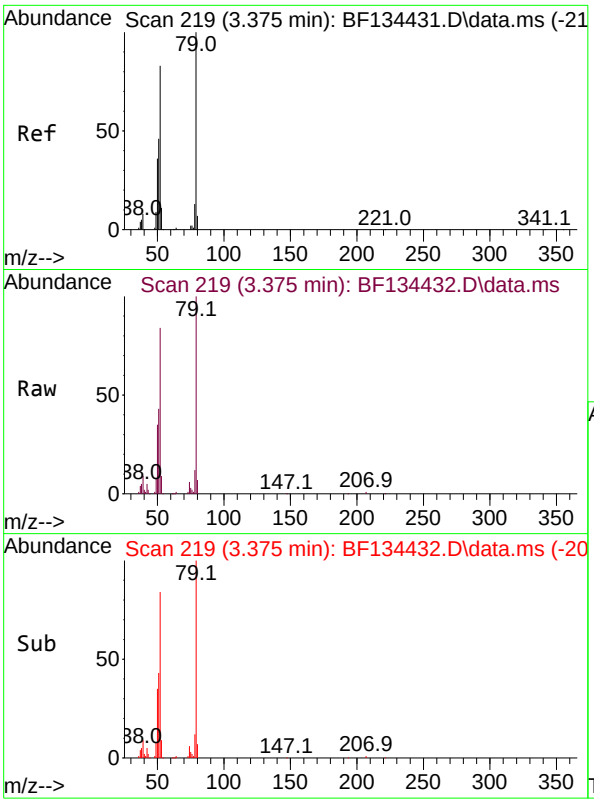


#2
1,4-Dioxane
Concen: 47.243 ng
RT: 2.587 min Scan# 85
Delta R.T. 0.000 min
Lab File: BF134432.D
Acq: 24 Jul 2023 16:36

Tgt Ion: 88 Resp: 76004

Ion	Ratio	Lower	Upper
88	100		
58	86.0	65.1	97.7
43	39.8	30.3	45.5

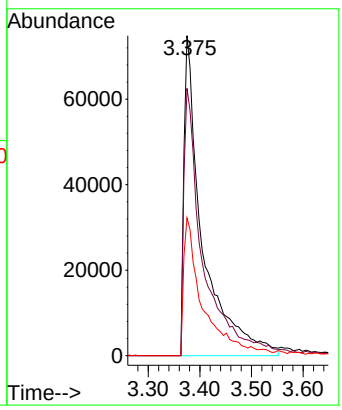




#3
Pyridine
Concen: 51.790 ng
RT: 3.375 min Scan# 21
Delta R.T. 0.000 min
Lab File: BF134432.D
Acq: 24 Jul 2023 16:36

Tgt Ion: 79 Resp: 18670

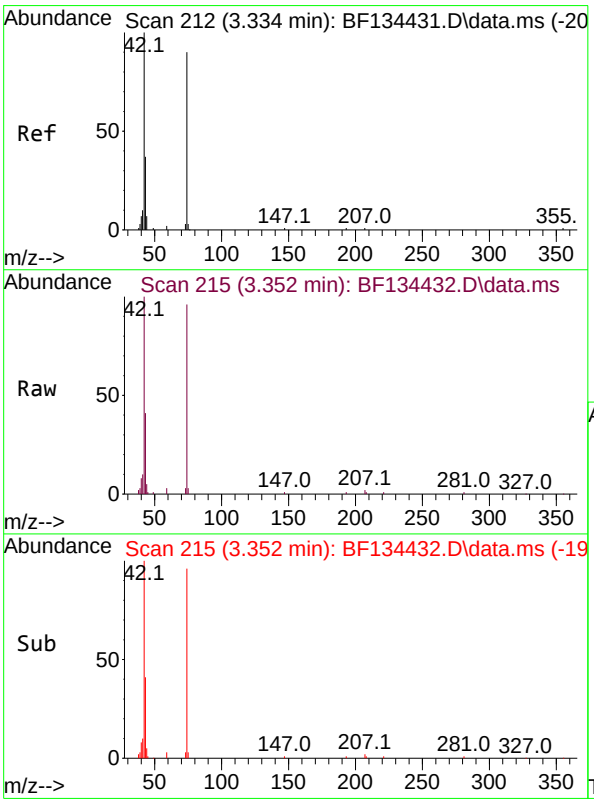
Ion	Ratio	Lower	Upper
79	100		
52	83.6	66.6	100.0
51	43.0	36.5	54.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

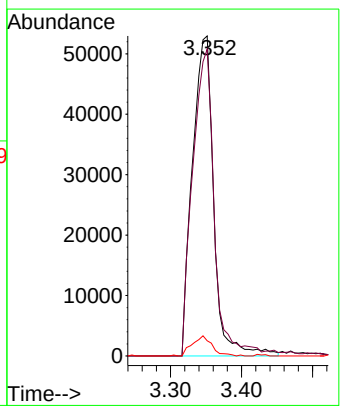
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

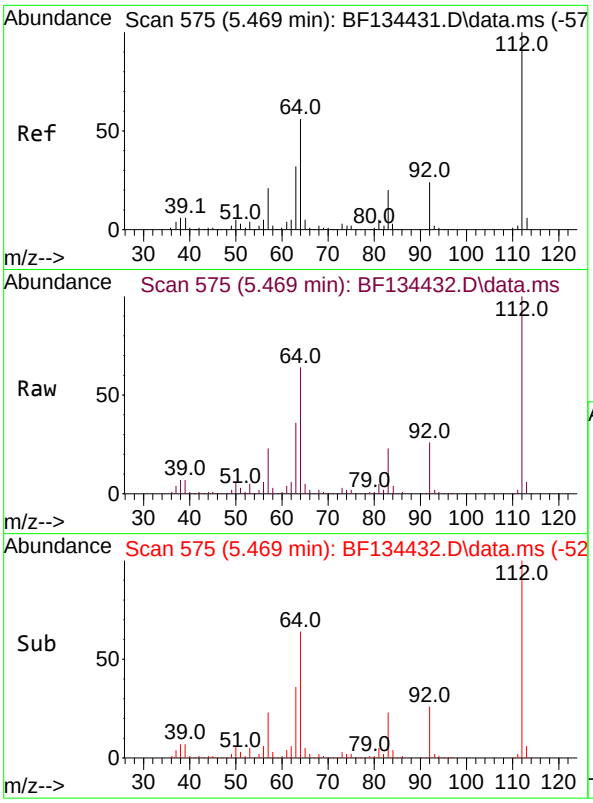


#4
n-Nitrosodimethylamine
Concen: 51.790 ng
RT: 3.352 min Scan# 215
Delta R.T. 0.018 min
Lab File: BF134432.D
Acq: 24 Jul 2023 16:36

Tgt Ion: 42 Resp: 110527

Ion	Ratio	Lower	Upper
42	100		
74	95.8	72.2	108.4
44	4.7	5.4	8.0#

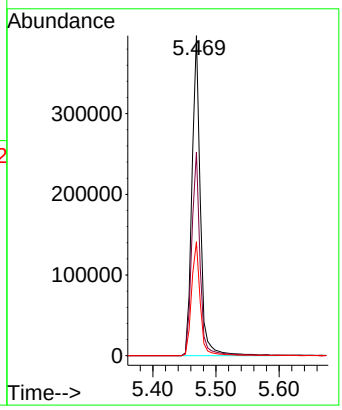




#5
2-Fluorophenol
Concen: 96.323 ng
RT: 5.469 min Scan# 5
Delta R.T. 0.000 min
Lab File: BF134432.D
Acq: 24 Jul 2023 16:36

Tgt Ion:112 Resp: 36533

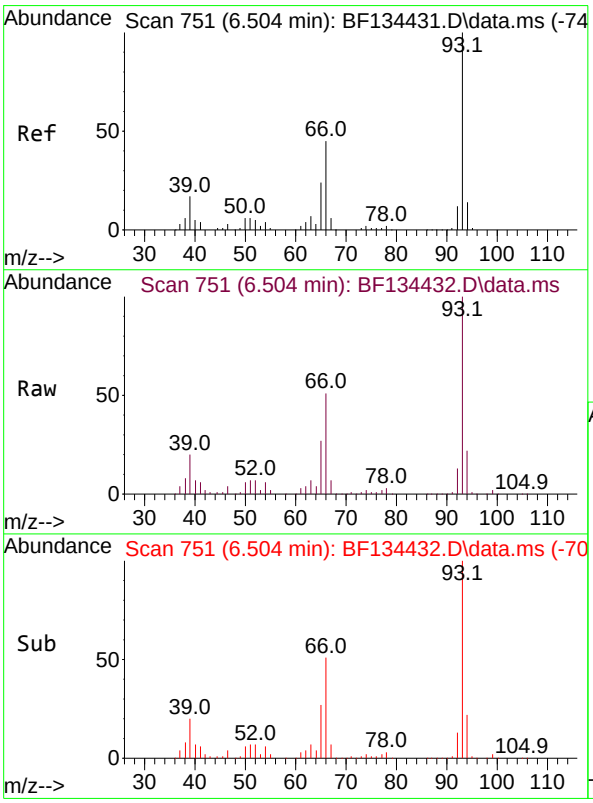
Ion	Ratio	Lower	Upper
112	100		
64	63.6	44.9	67.3
63	35.6	25.4	38.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

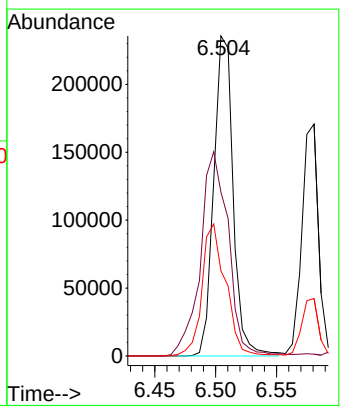
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

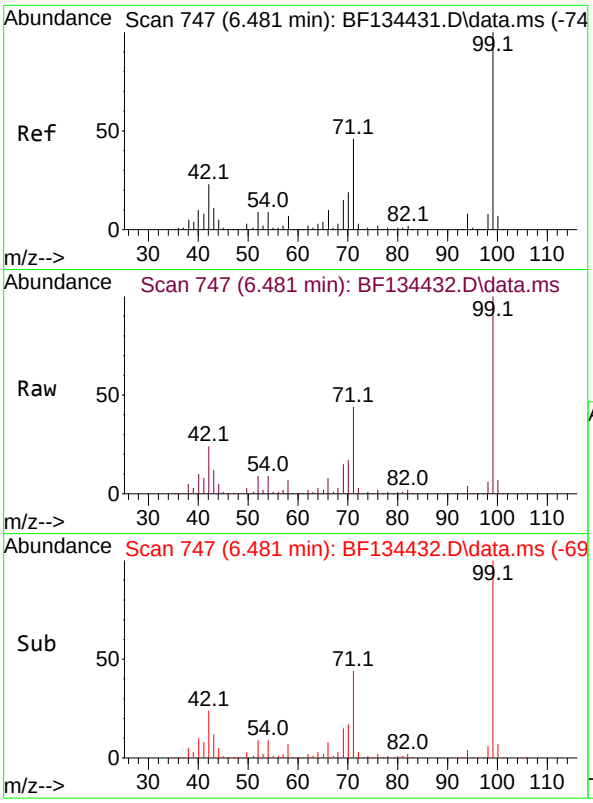


#6
Aniline
Concen: 47.820 ng
RT: 6.504 min Scan# 751
Delta R.T. 0.000 min
Lab File: BF134432.D
Acq: 24 Jul 2023 16:36

Tgt Ion: 93 Resp: 261904

Ion	Ratio	Lower	Upper
93	100		
66	51.2	36.8	55.2
65	26.6	19.4	29.0

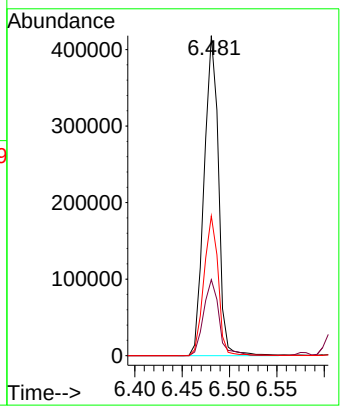




#7
Phenol-d6
Concen: 94.866 ng
RT: 6.481 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF134432.D
Acq: 24 Jul 2023 16:36

Tgt Ion: 99 Resp: 44084

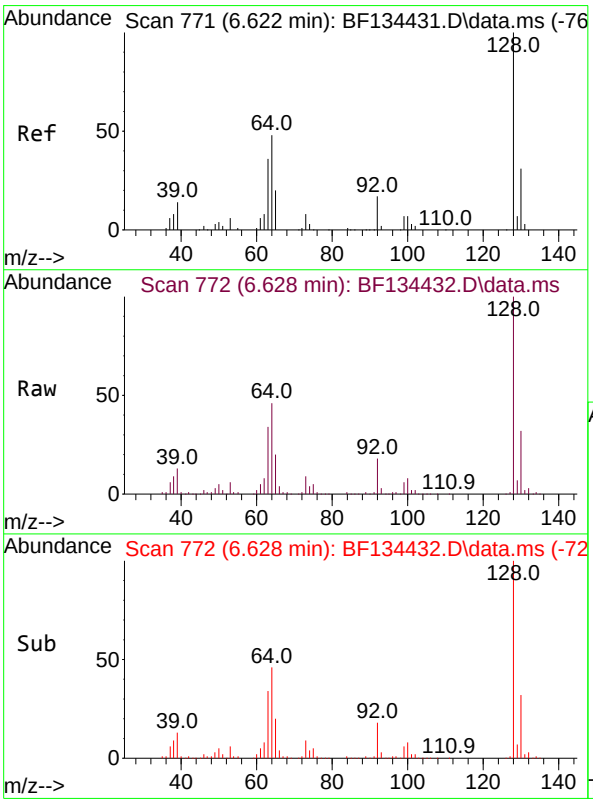
Ion	Ratio	Lower	Upper
99	100		
42	23.8	18.7	28.1
71	43.7	36.4	54.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

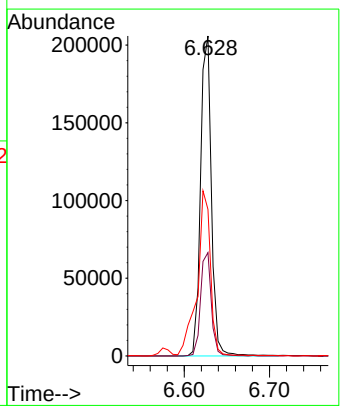
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

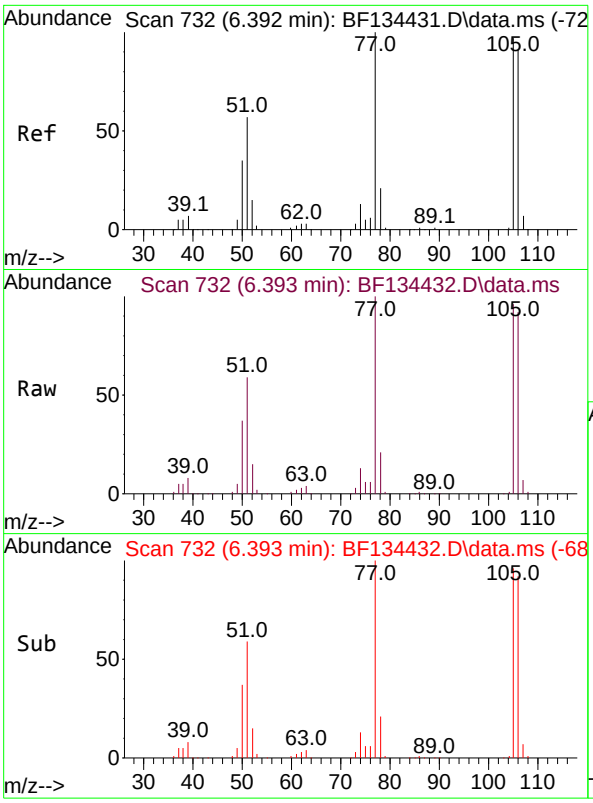


#8
2-Chlorophenol
Concen: 47.392 ng
RT: 6.628 min Scan# 772
Delta R.T. 0.006 min
Lab File: BF134432.D
Acq: 24 Jul 2023 16:36

Tgt Ion:128 Resp: 182102

Ion	Ratio	Lower	Upper
128	100		
130	32.3	11.1	51.1
64	45.8	31.9	71.9

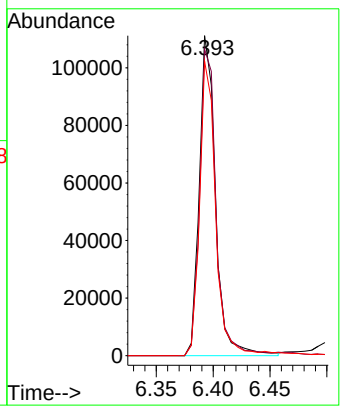




#9
Benzaldehyde
Concen: 44.407 ng
RT: 6.393 min Scan# 7
Delta R.T. 0.001 min
Lab File: BF134432.D
Acq: 24 Jul 2023 16:36

Tgt Ion: 77 Resp: 11050

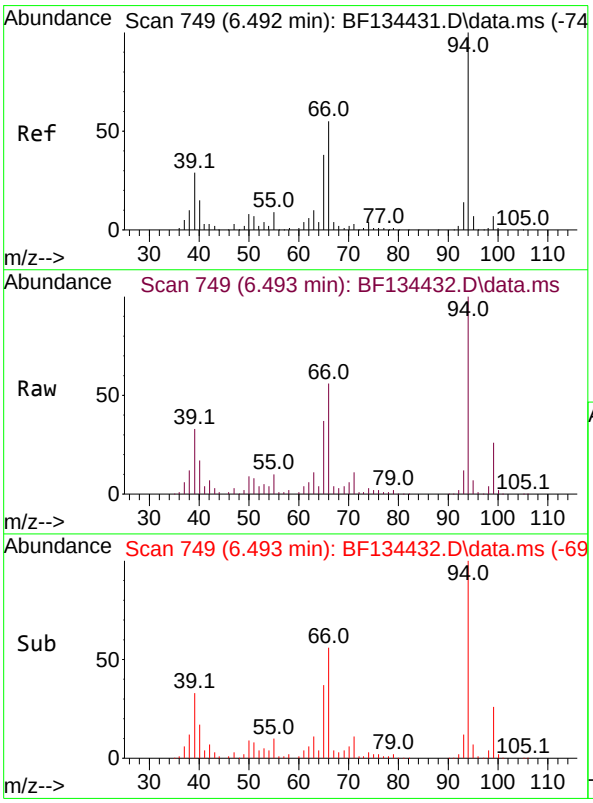
Ion	Ratio	Lower	Upper
77	100		
105	95.8	77.1	117.1
106	92.0	71.4	111.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

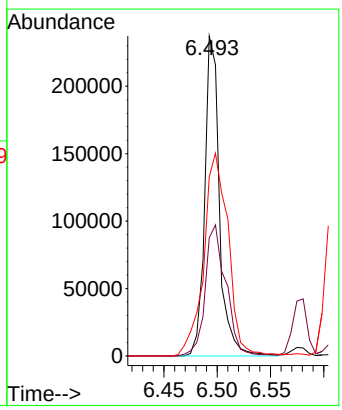
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

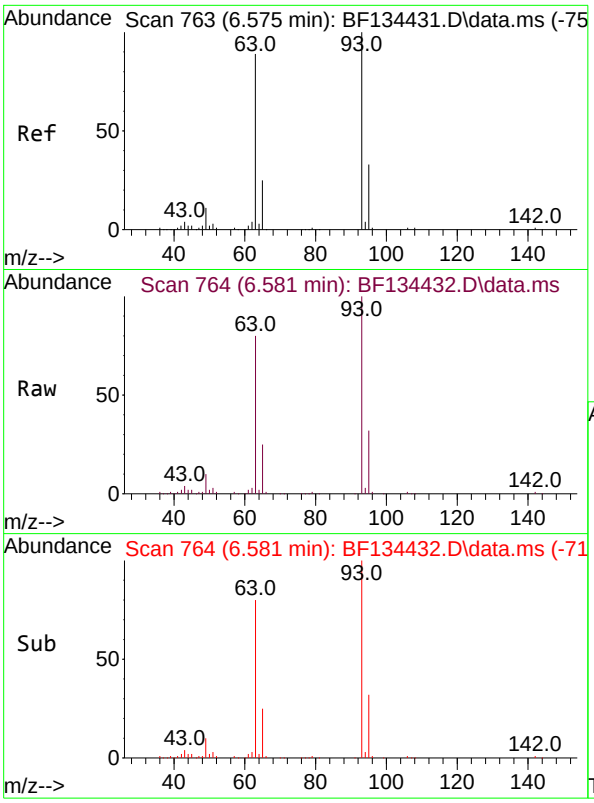


#10
Phenol
Concen: 47.209 ng
RT: 6.493 min Scan# 749
Delta R.T. 0.000 min
Lab File: BF134432.D
Acq: 24 Jul 2023 16:36

Tgt Ion: 94 Resp: 228255

Ion	Ratio	Lower	Upper
94	100		
65	36.9	17.8	57.8
66	55.9	35.2	75.2

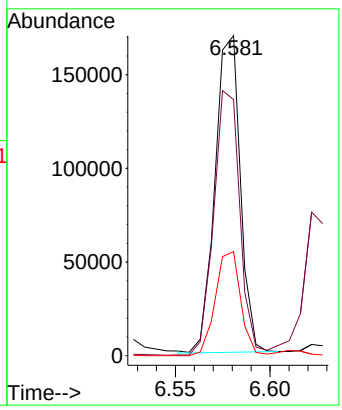




#11
bis(2-Chloroethyl)ether
Concen: 46.626 ng
RT: 6.581 min Scan# 7
Delta R.T. 0.006 min
Lab File: BF134432.D
Acq: 24 Jul 2023 16:36

Tgt Ion: 93 Resp: 15737

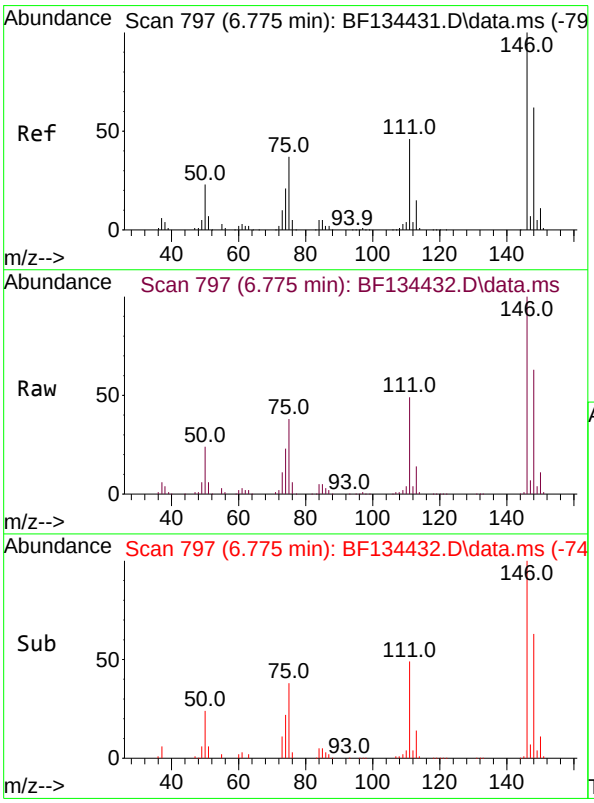
Ion	Ratio	Lower	Upper
93	100		
63	80.0	68.4	108.4
95	32.5	12.4	52.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

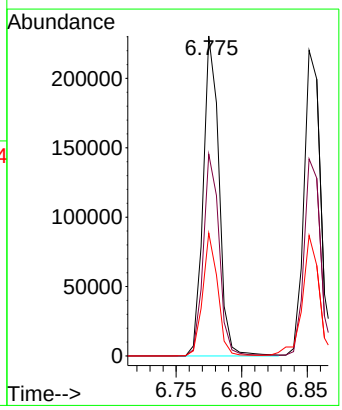
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

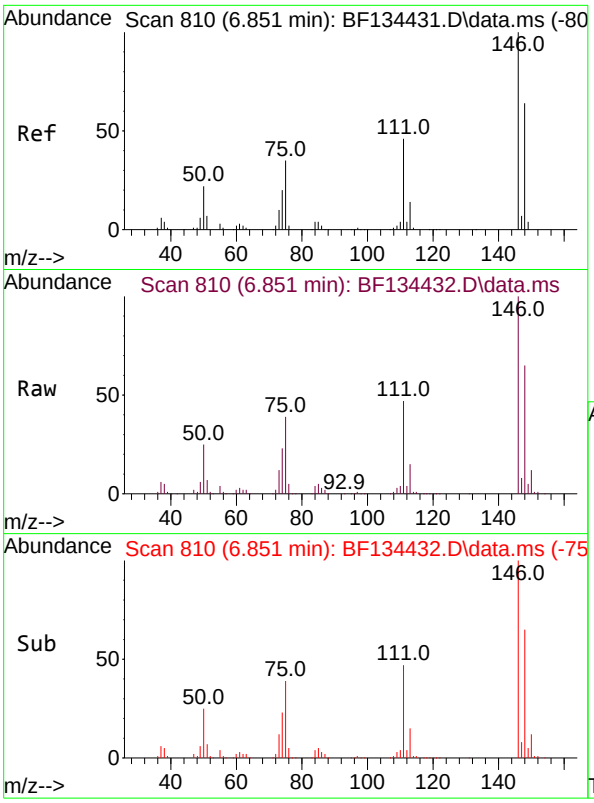


#12
1,3-Dichlorobenzene
Concen: 47.031 ng
RT: 6.775 min Scan# 797
Delta R.T. 0.000 min
Lab File: BF134432.D
Acq: 24 Jul 2023 16:36

Tgt Ion:146 Resp: 194329

Ion	Ratio	Lower	Upper
146	100		
148	63.1	49.7	74.5
75	38.4	29.5	44.3

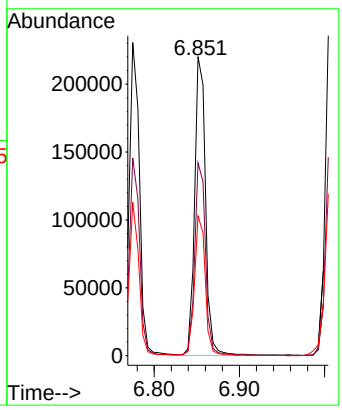




#13
1,4-Dichlorobenzene
Concen: 45.853 ng
RT: 6.851 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF134432.D
Acq: 24 Jul 2023 16:36

Tgt Ion:146 Resp: 19497

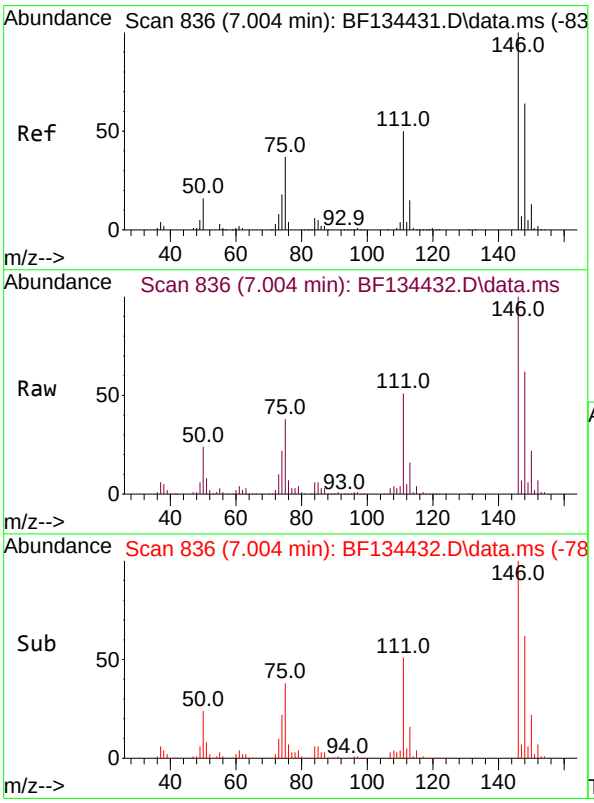
Ion	Ratio	Lower	Upper
146	100		
148	64.5	51.3	76.9
111	46.7	36.6	55.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

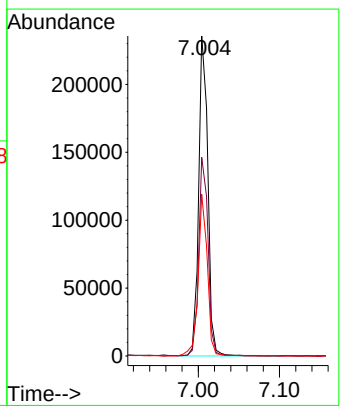
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

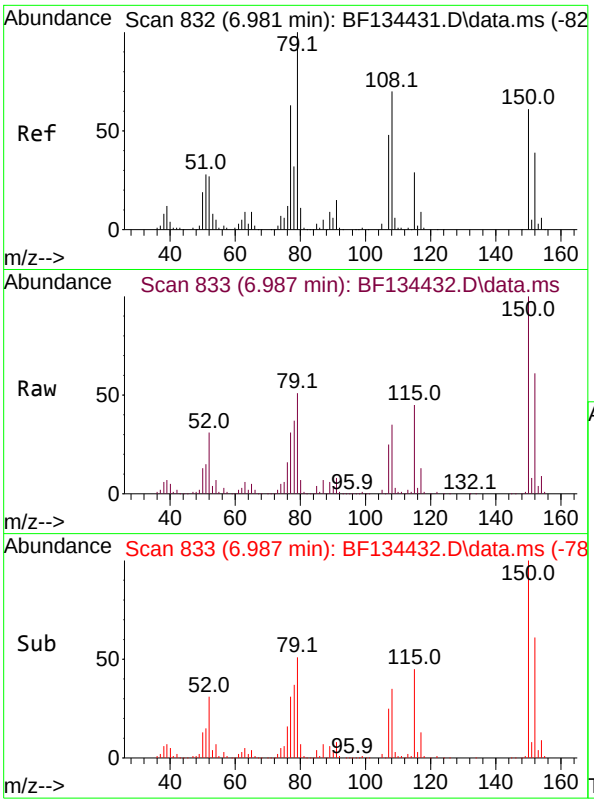


#14
1,2-Dichlorobenzene
Concen: 46.427 ng
RT: 7.004 min Scan# 836
Delta R.T. 0.000 min
Lab File: BF134432.D
Acq: 24 Jul 2023 16:36

Tgt Ion:146 Resp: 185443

Ion	Ratio	Lower	Upper
146	100		
148	62.0	51.2	76.8
111	50.5	39.9	59.9

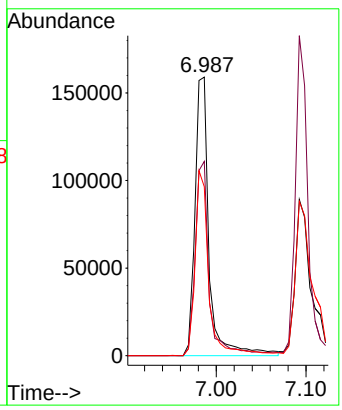




#15
Benzyl Alcohol
Concen: 48.885 ng
RT: 6.987 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF134432.D
Acq: 24 Jul 2023 16:36

Tgt Ion: 79 Resp: 17368

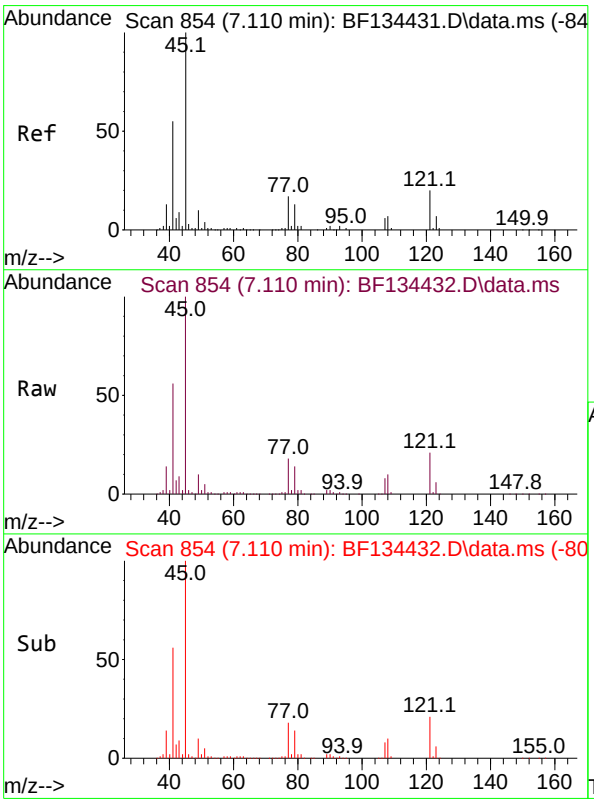
Ion	Ratio	Lower	Upper
79	100		
108	69.7	56.3	84.5
77	60.7	50.6	76.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

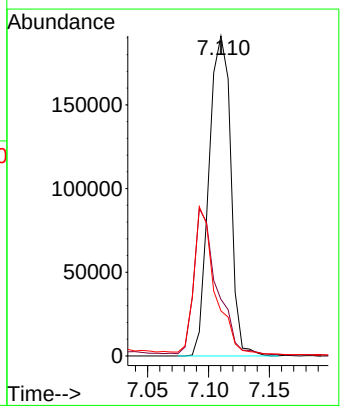
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

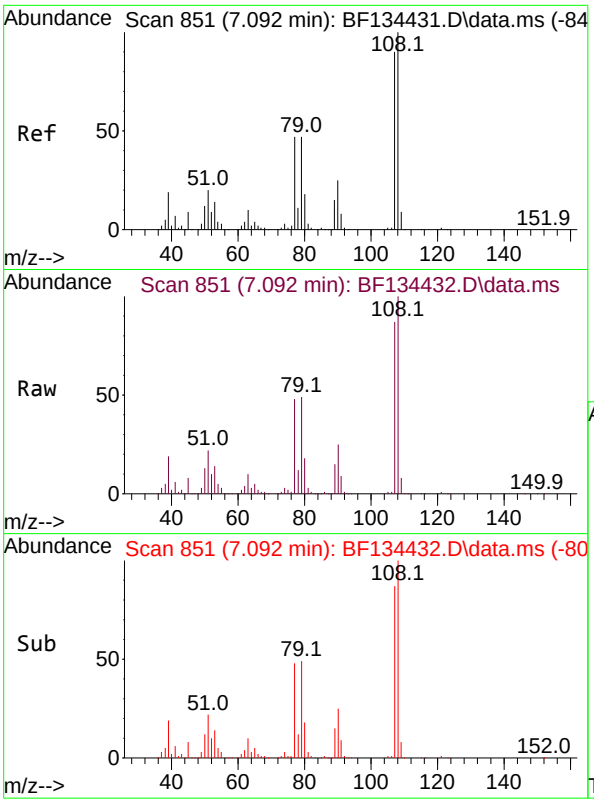


#16
2,2'-oxybis(1-Chloropropane)
Concen: 47.734 ng
RT: 7.110 min Scan# 854
Delta R.T. 0.000 min
Lab File: BF134432.D
Acq: 24 Jul 2023 16:36

Tgt Ion: 45 Resp: 237263

Ion	Ratio	Lower	Upper
45	100		
77	17.7	0.0	37.8
79	14.1	0.0	34.5

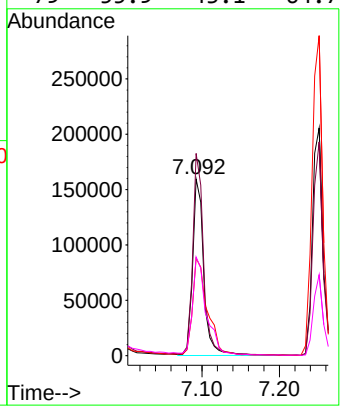




#17
2-Methylphenol
Concen: 46.505 ng
RT: 7.092 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF134432.D
Acq: 24 Jul 2023 16:36

Tgt Ion:107 Resp: 15936

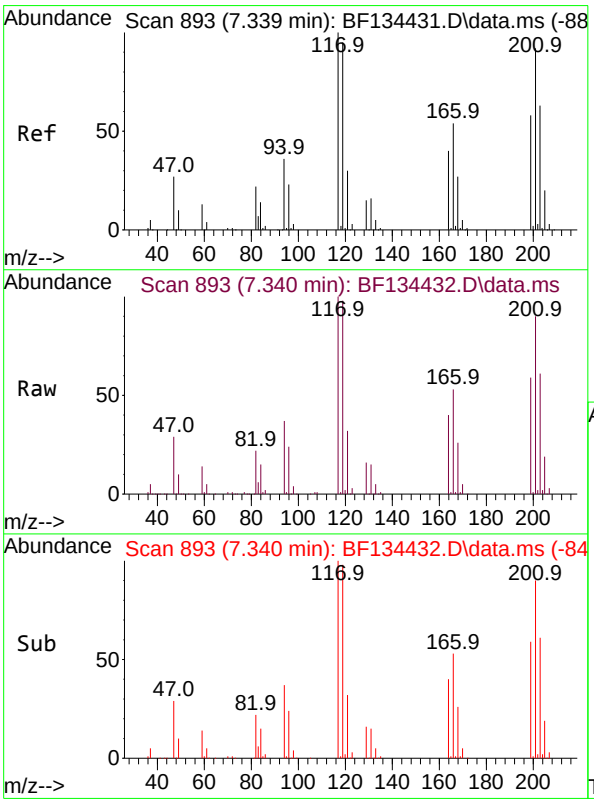
Ion	Ratio	Lower	Upper
107	100		
108	114.5	89.4	134.2
77	55.2	42.4	63.6
79	55.9	43.1	64.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

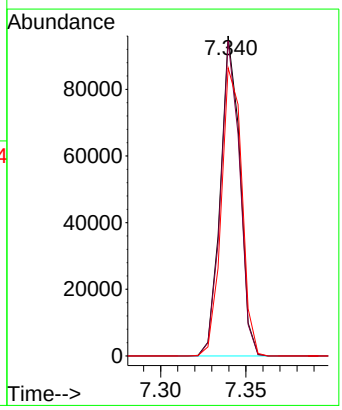
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

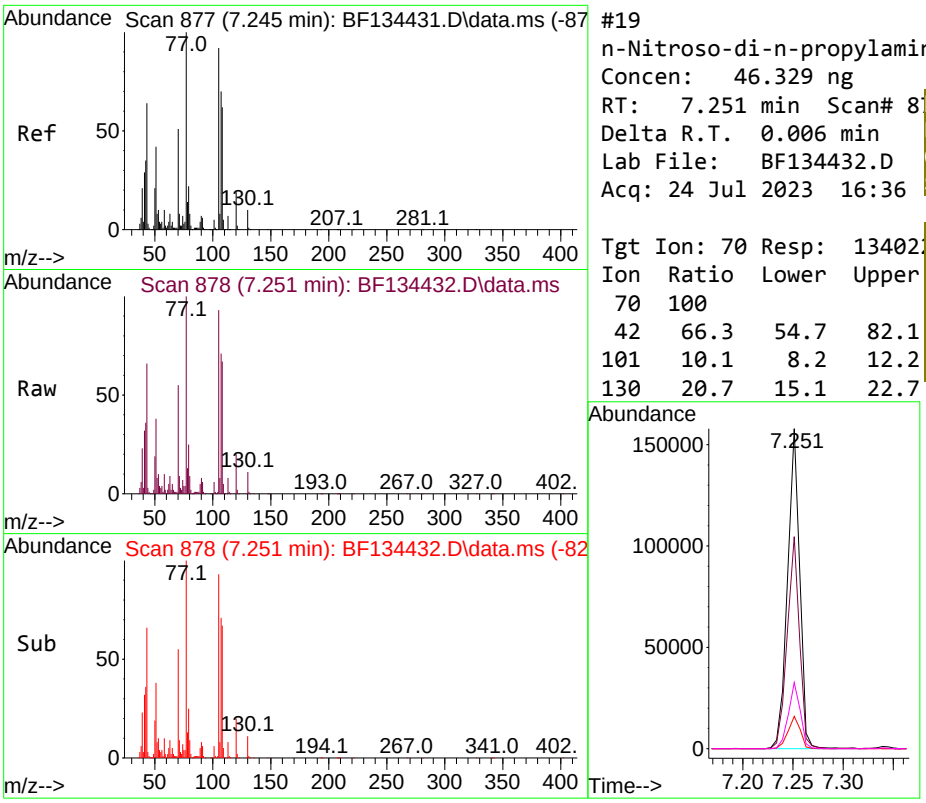


#18
Hexachloroethane
Concen: 46.754 ng
RT: 7.340 min Scan# 893
Delta R.T. 0.000 min
Lab File: BF134432.D
Acq: 24 Jul 2023 16:36

Tgt Ion:117 Resp: 76377

Ion	Ratio	Lower	Upper
117	100		
119	98.5	75.8	113.8
201	90.0	73.6	110.4





#19
n-Nitroso-di-n-propylamine
Concen: 46.329 ng
RT: 7.251 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF134432.D
Acq: 24 Jul 2023 16:36

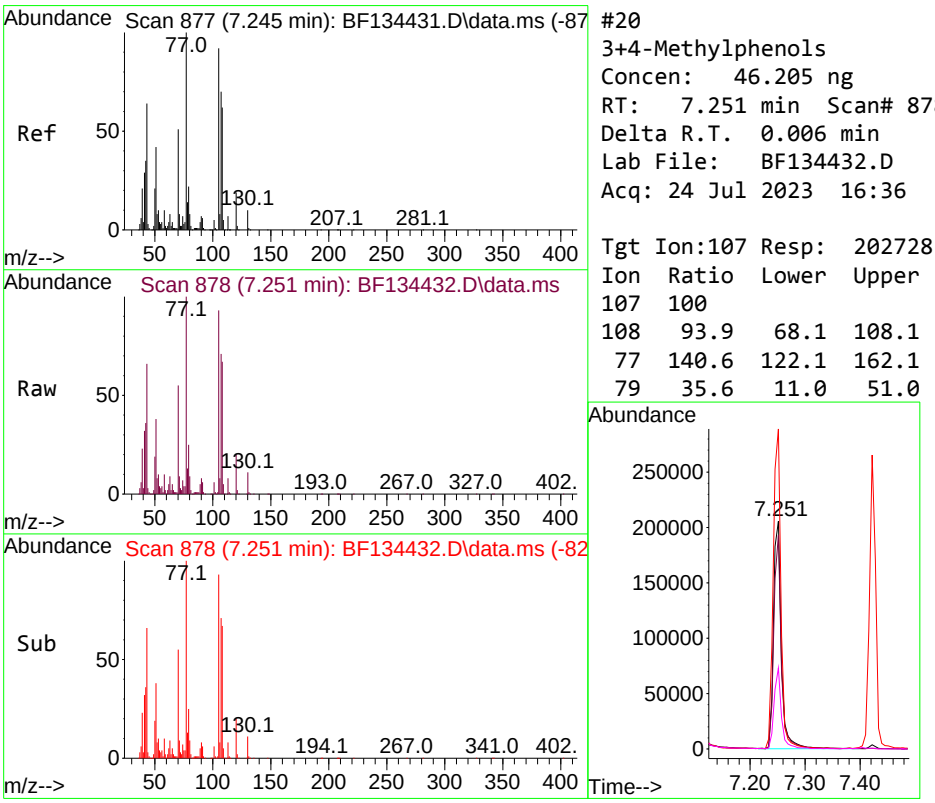
Tgt Ion: 70 Resp: 13402

Ion	Ratio	Lower	Upper
70	100		
42	66.3	54.7	82.1
101	10.1	8.2	12.2
130	20.7	15.1	22.7

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

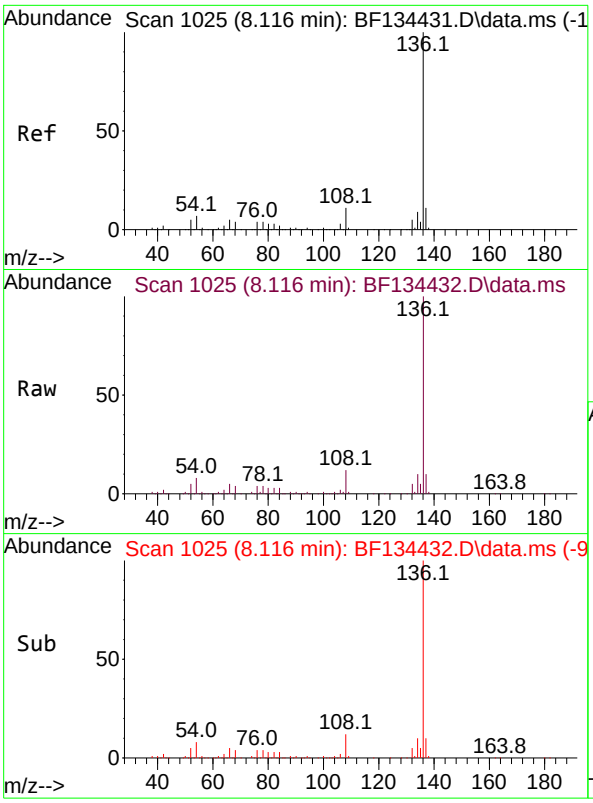
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023



#20
3+4-Methylphenols
Concen: 46.205 ng
RT: 7.251 min Scan# 878
Delta R.T. 0.006 min
Lab File: BF134432.D
Acq: 24 Jul 2023 16:36

Tgt Ion:107 Resp: 202728

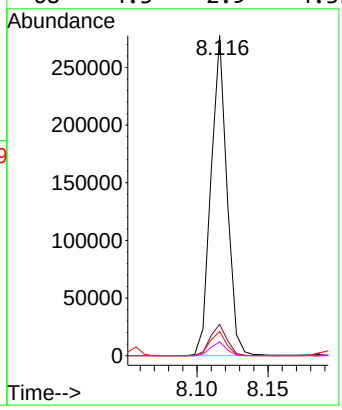
Ion	Ratio	Lower	Upper
107	100		
108	93.9	68.1	108.1
77	140.6	122.1	162.1
79	35.6	11.0	51.0



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.116 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134432.D
Acq: 24 Jul 2023 16:36

Tgt Ion:136 Resp: 21736

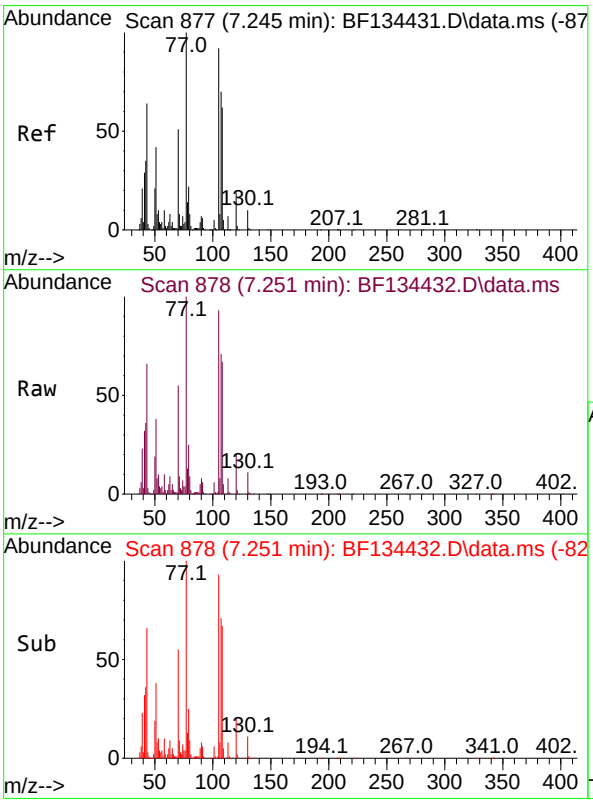
Ion	Ratio	Lower	Upper
136	100		
137	9.8	8.4	12.6
54	7.6	5.2	7.8
68	4.3	2.9	4.3#



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

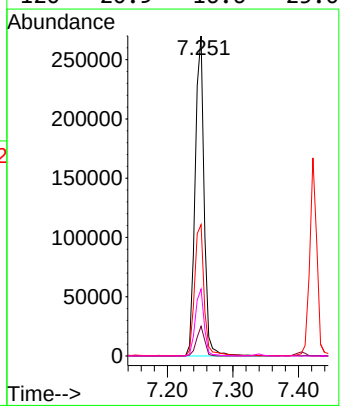
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

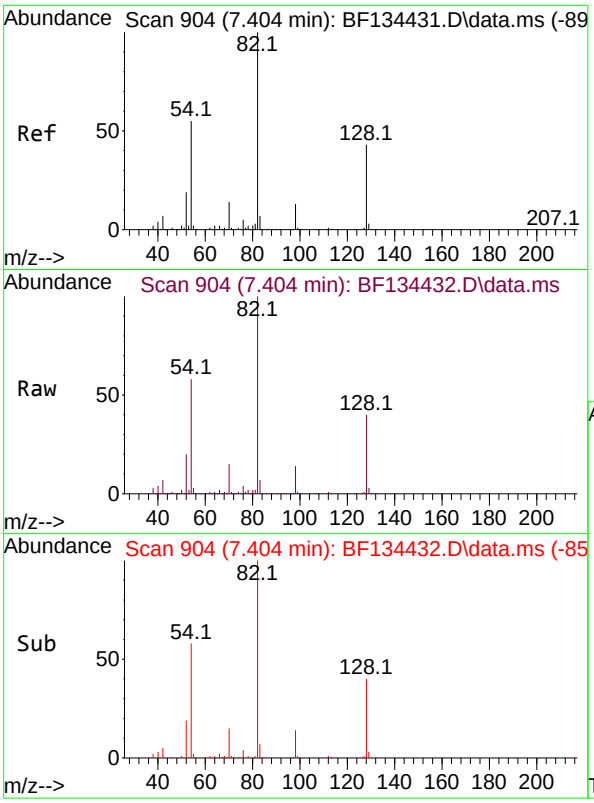


#22
Acetophenone
Concen: 47.884 ng
RT: 7.251 min Scan# 878
Delta R.T. 0.006 min
Lab File: BF134432.D
Acq: 24 Jul 2023 16:36

Tgt Ion:105 Resp: 258862

Ion	Ratio	Lower	Upper
105	100		
71	9.3	7.4	11.0
51	41.0	36.4	54.6
120	20.9	16.6	25.0

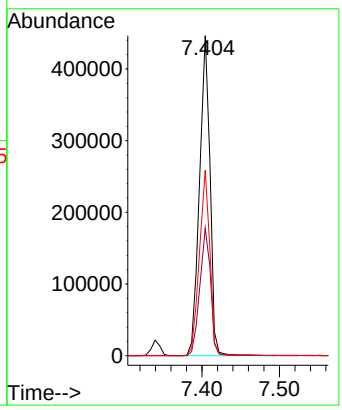




#23
Nitrobenzene-d5
Concen: 98.116 ng
RT: 7.404 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF134432.D
Acq: 24 Jul 2023 16:36

Tgt Ion: 82 Resp: 42153

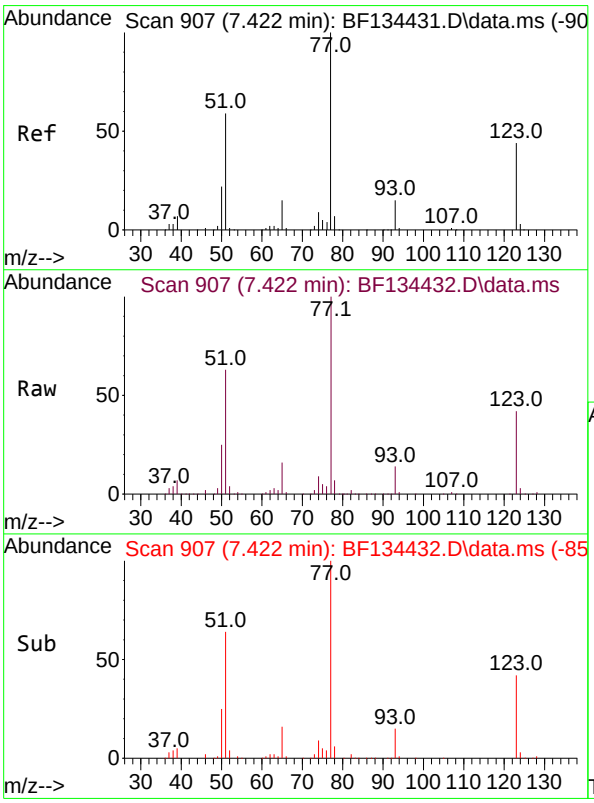
Ion	Ratio	Lower	Upper
82	100		
128	39.9	34.3	51.5
54	57.9	43.8	65.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

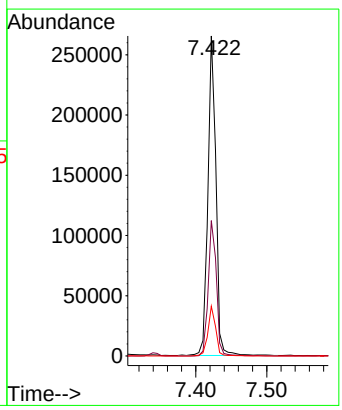
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

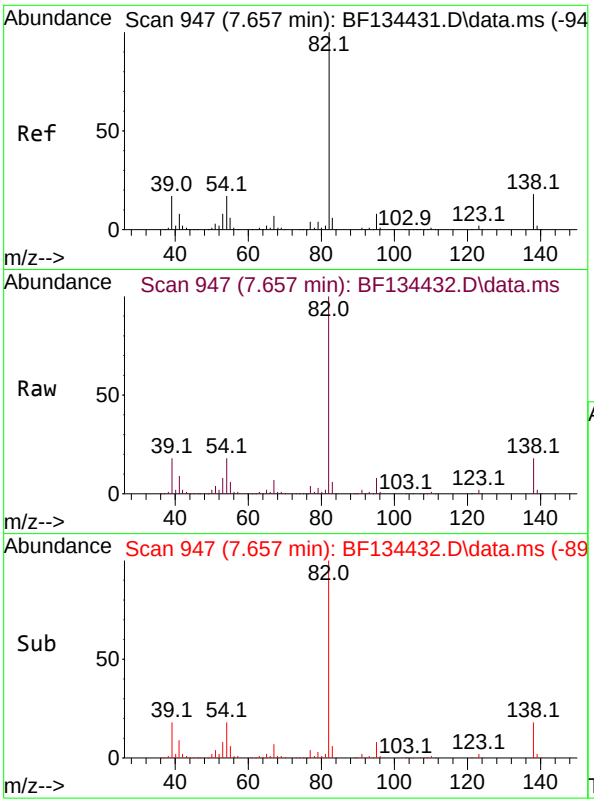


#24
Nitrobenzene
Concen: 48.926 ng
RT: 7.422 min Scan# 907
Delta R.T. 0.000 min
Lab File: BF134432.D
Acq: 24 Jul 2023 16:36

Tgt Ion: 77 Resp: 209048

Ion	Ratio	Lower	Upper
77	100		
123	42.3	35.5	53.3
65	15.5	11.9	17.9

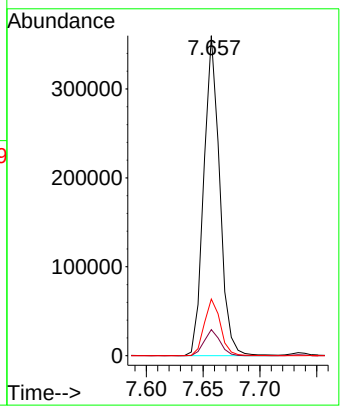




#25
Isophorone
Concen: 48.864 ng
RT: 7.657 min Scan# 94
Delta R.T. 0.000 min
Lab File: BF134432.D
Acq: 24 Jul 2023 16:36

Tgt Ion: 82 Resp: 34987

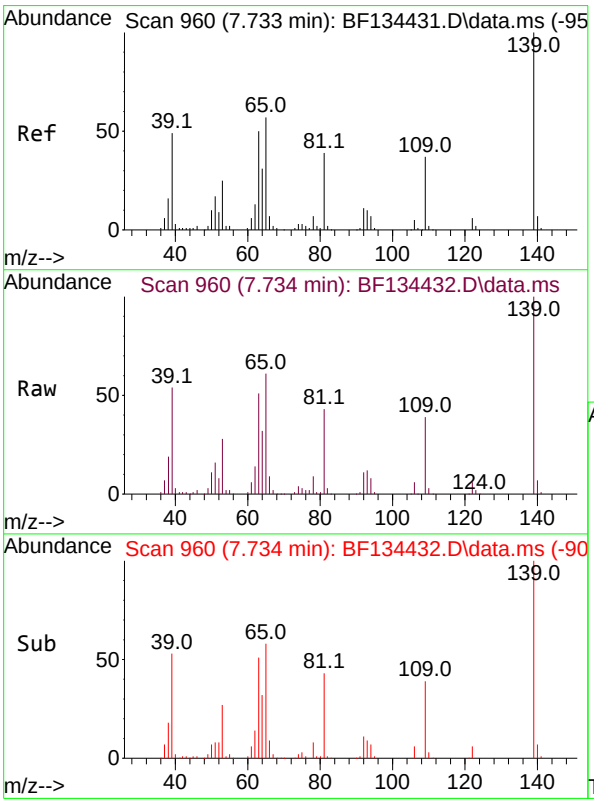
Ion	Ratio	Lower	Upper
82	100		
95	8.1	6.0	9.0
138	17.7	14.6	22.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

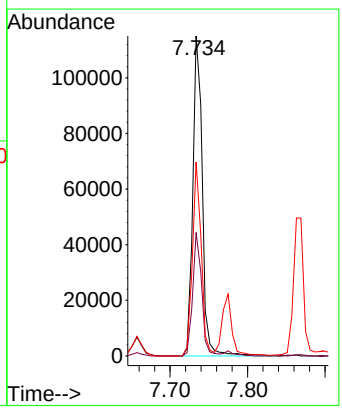
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

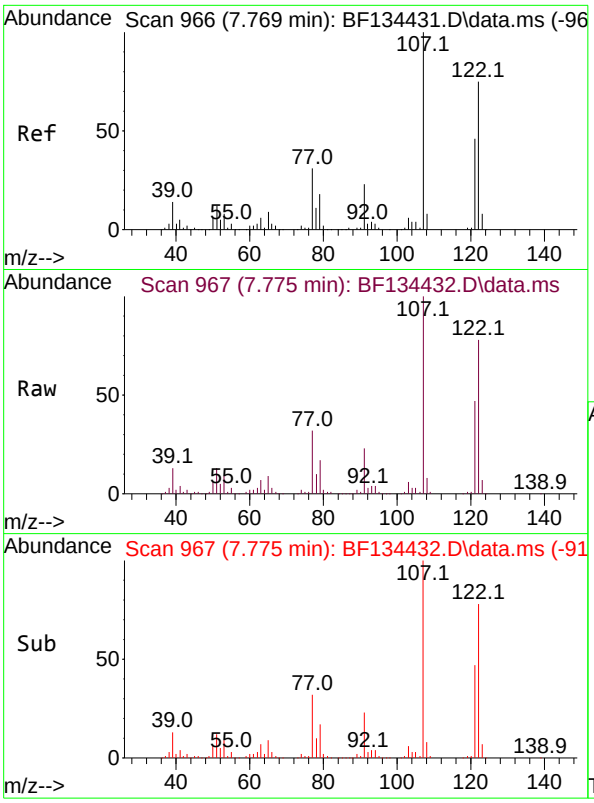


#26
2-Nitrophenol
Concen: 49.993 ng
RT: 7.734 min Scan# 960
Delta R.T. 0.000 min
Lab File: BF134432.D
Acq: 24 Jul 2023 16:36

Tgt Ion:139 Resp: 98246

Ion	Ratio	Lower	Upper
139	100		
109	38.6	29.8	44.6
65	60.6	45.4	68.2

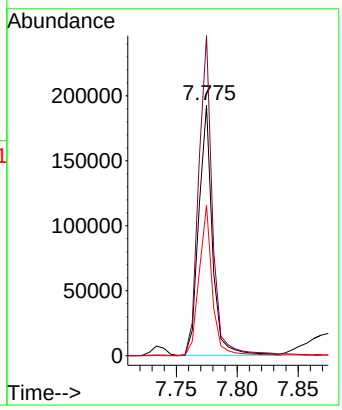




#27
2,4-Dimethylphenol
Concen: 48.569 ng
RT: 7.775 min Scan# 9
Delta R.T. 0.006 min
Lab File: BF134432.D
Acq: 24 Jul 2023 16:36

Tgt Ion:122 Resp: 15062

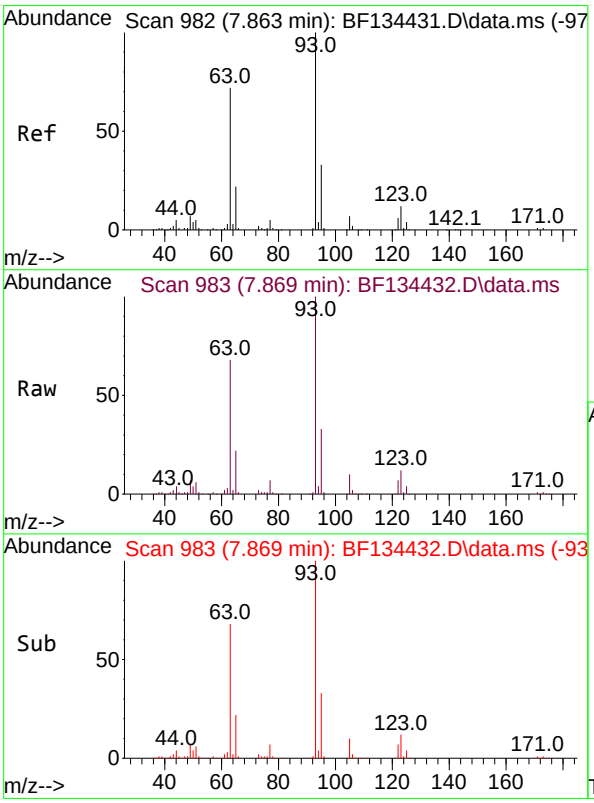
Ion	Ratio	Lower	Upper
122	100		
107	127.8	106.7	160.1
121	60.1	49.0	73.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

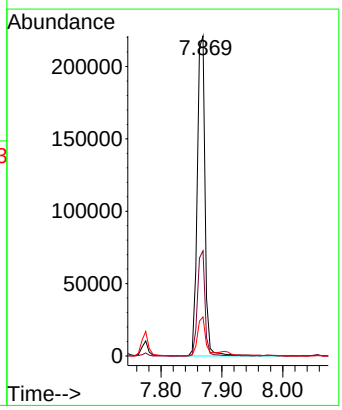
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

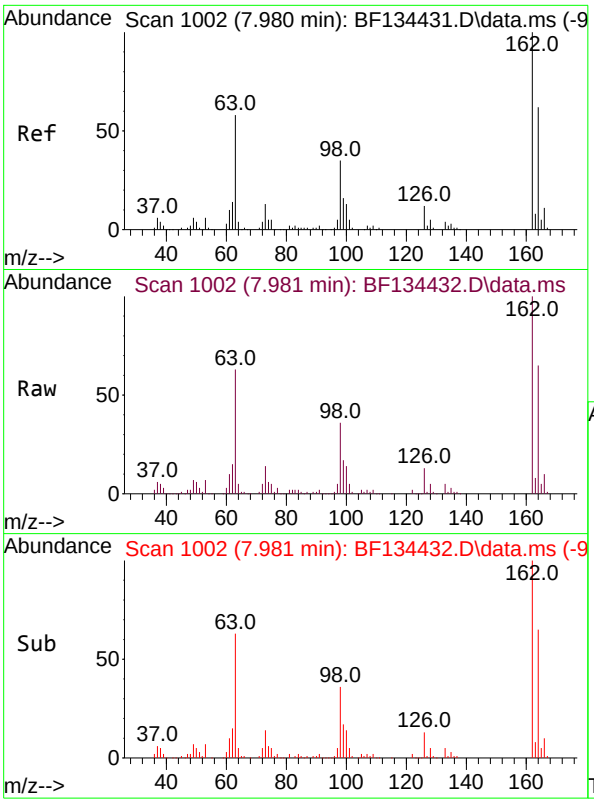


#28
bis(2-Chloroethoxy)methane
Concen: 49.332 ng
RT: 7.869 min Scan# 983
Delta R.T. 0.006 min
Lab File: BF134432.D
Acq: 24 Jul 2023 16:36

Tgt Ion: 93 Resp: 196614

Ion	Ratio	Lower	Upper
93	100		
95	32.8	26.5	39.7
123	12.2	9.6	14.4





#29
2,4-Dichlorophenol
Concen: 48.510 ng
RT: 7.981 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134432.D
Acq: 24 Jul 2023 16:36

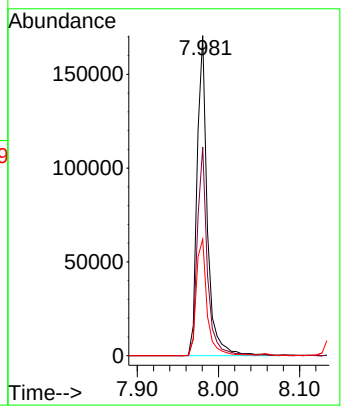
Tgt Ion:162 Resp: 15038

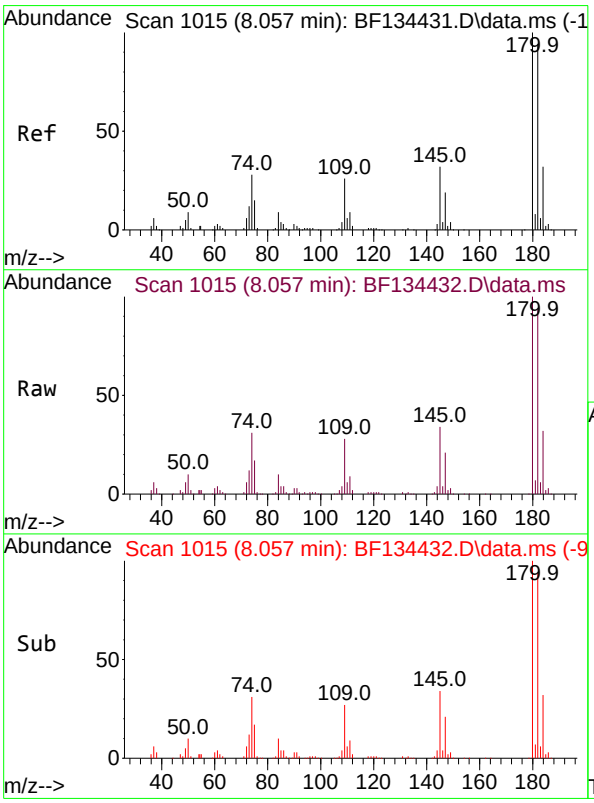
Ion	Ratio	Lower	Upper
162	100		
164	65.2	42.2	82.2
98	36.4	15.5	55.5

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

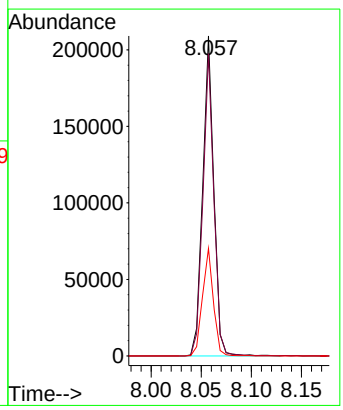


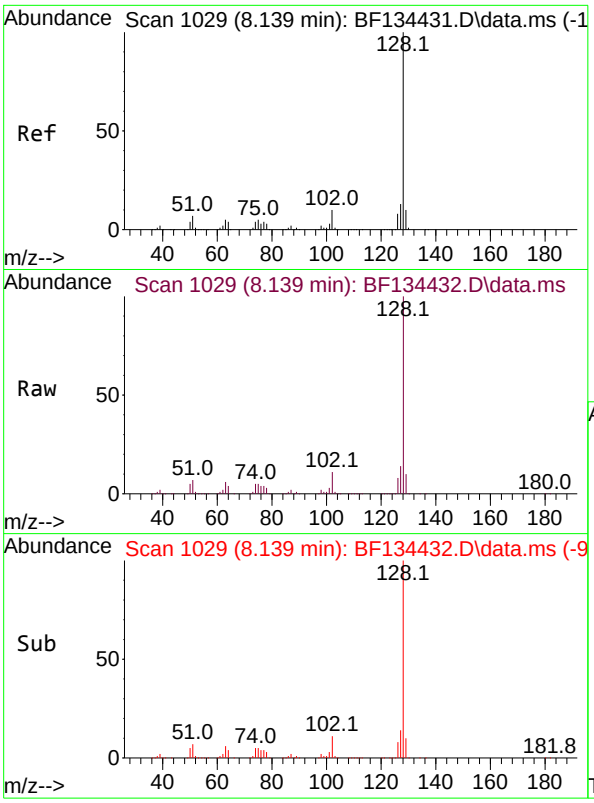


#30
1,2,4-Trichlorobenzene
Concen: 48.352 ng
RT: 8.057 min Scan# 1015
Delta R.T. 0.000 min
Lab File: BF134432.D
Acq: 24 Jul 2023 16:36

Tgt Ion:180 Resp: 161694

Ion	Ratio	Lower	Upper
180	100		
182	94.5	75.0	112.6
145	33.6	25.5	38.3

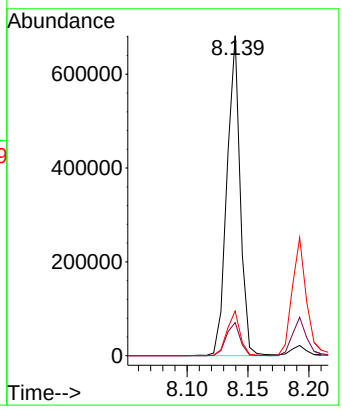




#31
Naphthalene
Concen: 47.748 ng
RT: 8.139 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134432.D
Acq: 24 Jul 2023 16:36

Tgt Ion:128 Resp: 51654

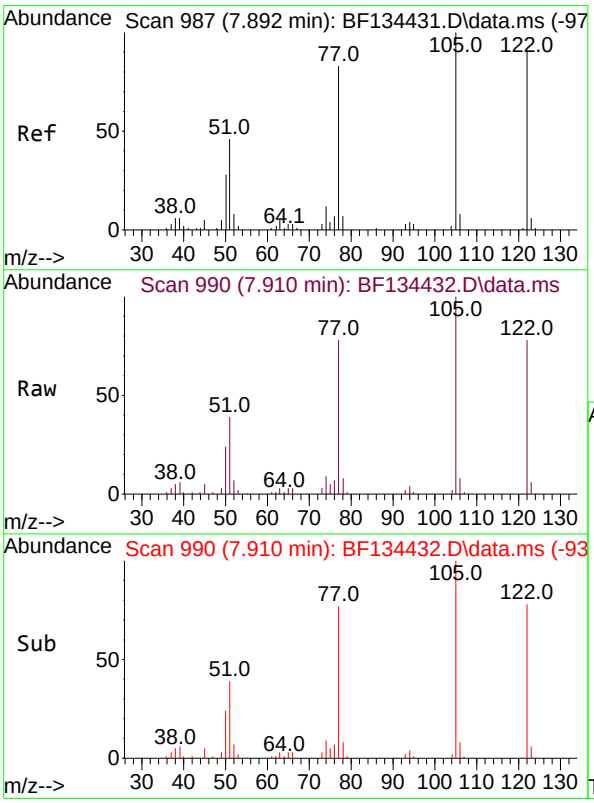
Ion	Ratio	Lower	Upper
128	100		
129	10.3	8.4	12.6
127	13.9	10.7	16.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

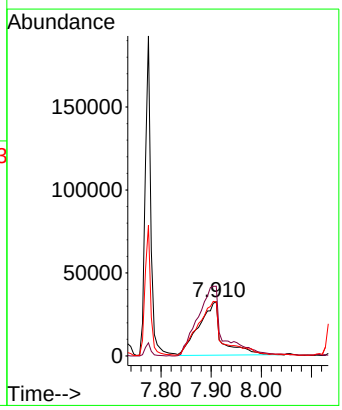
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

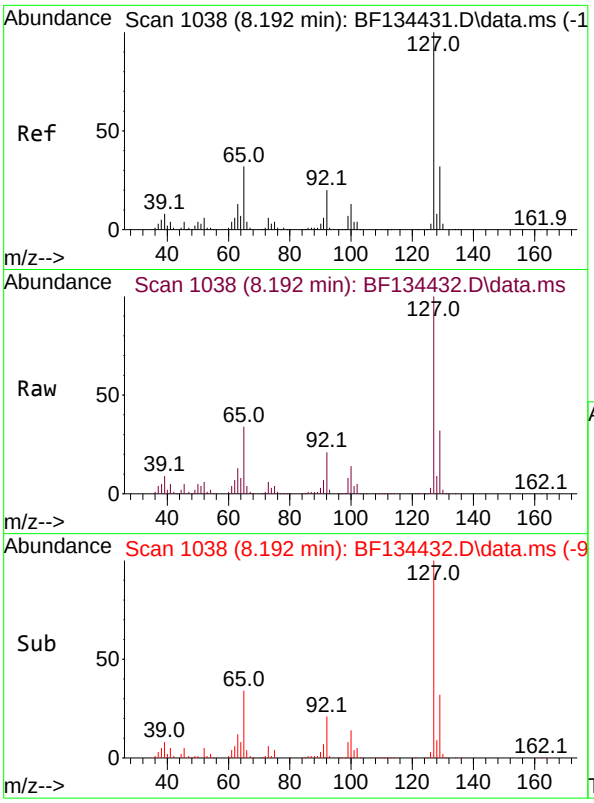


#32
Benzoic acid
Concen: 50.665 ng
RT: 7.910 min Scan# 990
Delta R.T. 0.018 min
Lab File: BF134432.D
Acq: 24 Jul 2023 16:36

Tgt Ion:122 Resp: 103757

Ion	Ratio	Lower	Upper
122	100		
105	128.5	87.5	127.5#
77	99.6	71.4	111.4

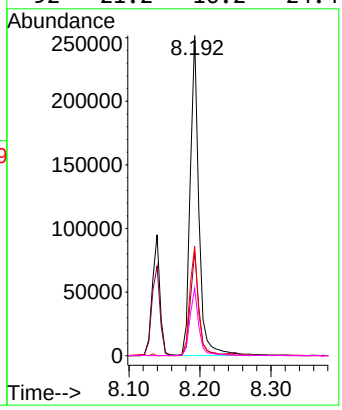




#33
4-Chloroaniline
Concen: 47.926 ng
RT: 8.192 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134432.D
Acq: 24 Jul 2023 16:36

Tgt Ion:127 Resp: 21431

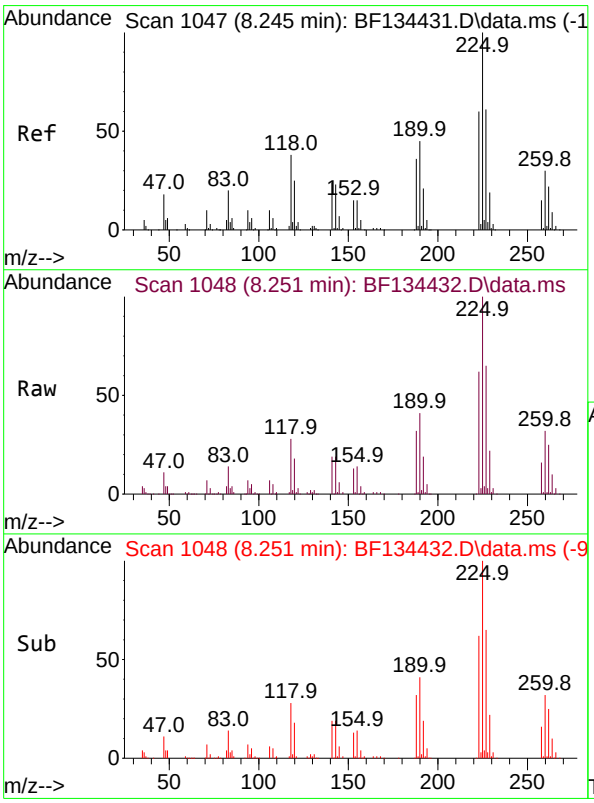
Ion	Ratio	Lower	Upper
127	100		
129	32.5	25.6	38.4
65	34.3	25.4	38.0
92	21.2	16.2	24.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

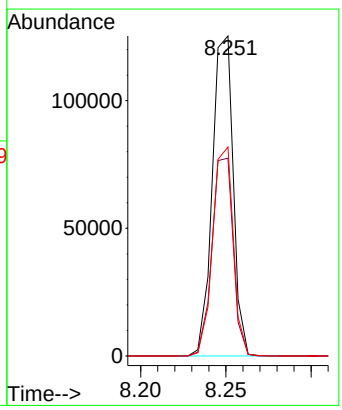
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

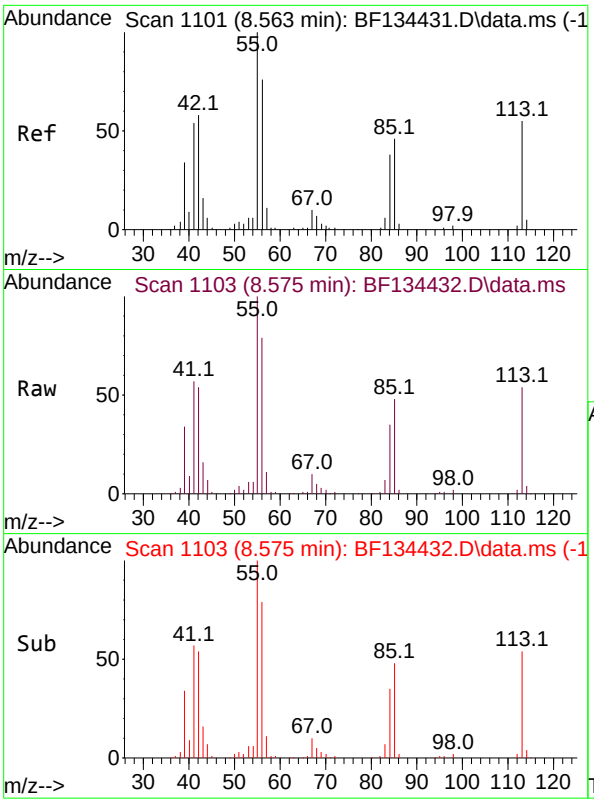


#34
Hexachlorobutadiene
Concen: 47.681 ng
RT: 8.251 min Scan# 1048
Delta R.T. 0.006 min
Lab File: BF134432.D
Acq: 24 Jul 2023 16:36

Tgt Ion:225 Resp: 106819

Ion	Ratio	Lower	Upper
225	100		
223	61.8	48.2	72.4
227	65.3	48.5	72.7

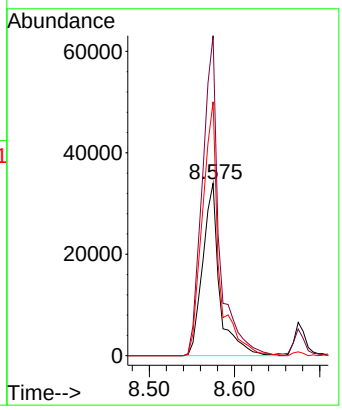




#35
Caprolactam
Concen: 49.507 ng
RT: 8.575 min Scan# 1
Delta R.T. 0.012 min
Lab File: BF134432.D
Acq: 24 Jul 2023 16:36

Tgt Ion:113 Resp: 4684

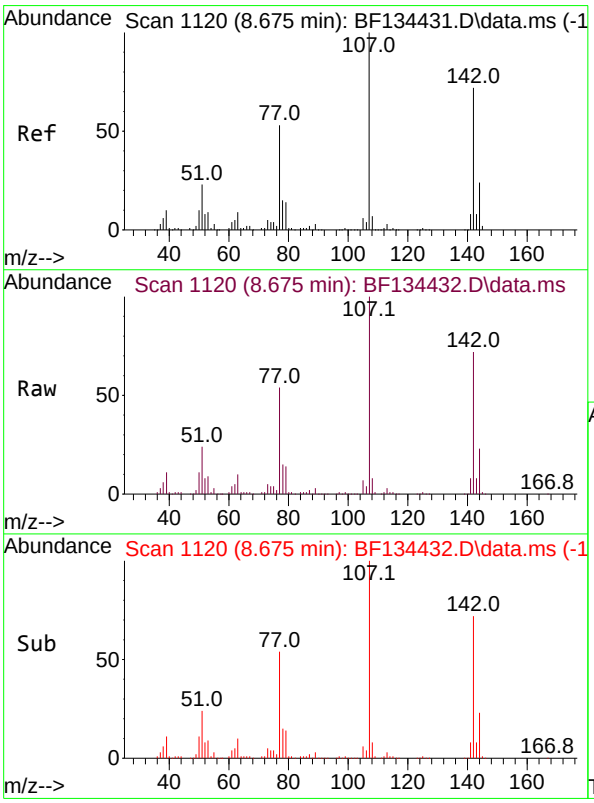
Ion	Ratio	Lower	Upper
113	100		
55	185.7	161.5	201.5
56	147.4	117.8	157.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

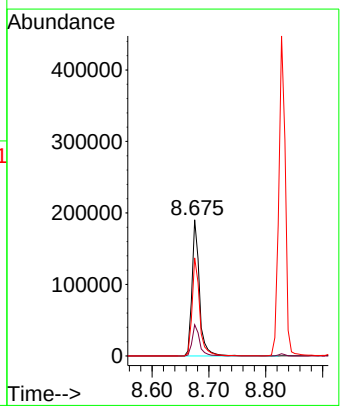
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

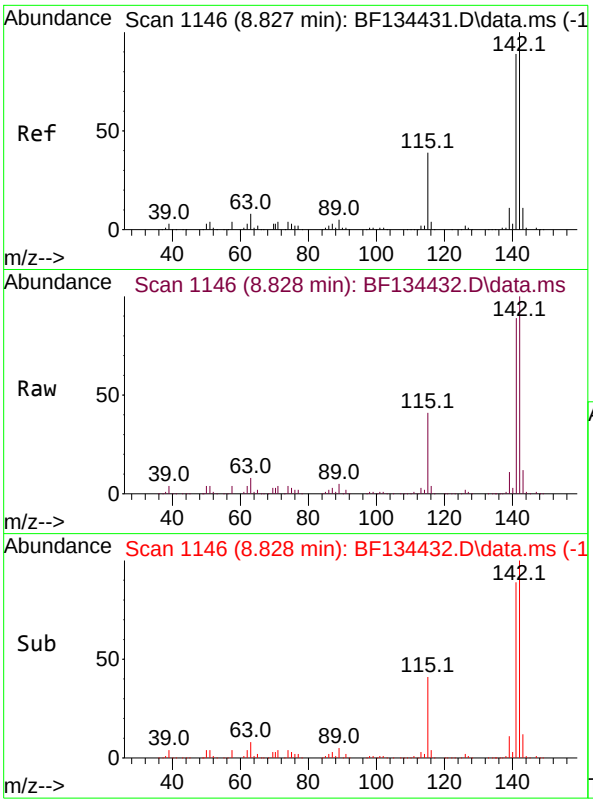


#36
4-Chloro-3-methylphenol
Concen: 48.912 ng
RT: 8.675 min Scan# 1120
Delta R.T. 0.000 min
Lab File: BF134432.D
Acq: 24 Jul 2023 16:36

Tgt Ion:107 Resp: 174965

Ion	Ratio	Lower	Upper
107	100		
144	22.9	19.6	29.4
142	72.0	57.7	86.5

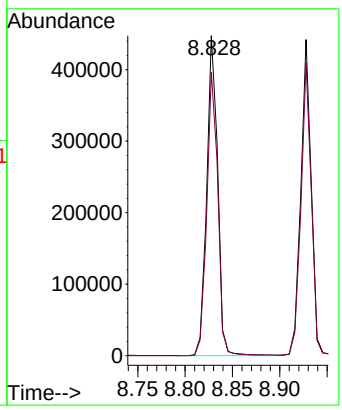




#37
2-Methylnaphthalene
Concen: 47.680 ng
RT: 8.828 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF134432.D
Acq: 24 Jul 2023 16:36

Tgt Ion:142 Resp: 35839

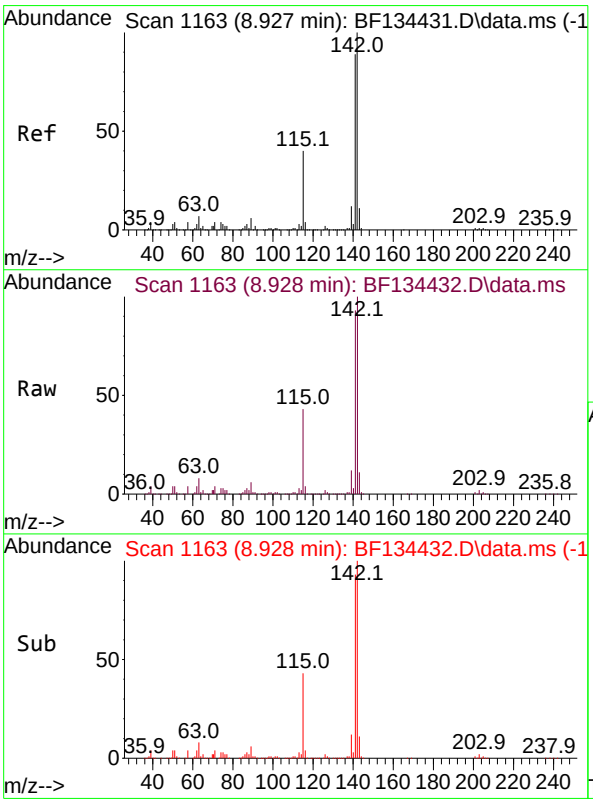
Ion	Ratio	Lower	Upper
142	100		
141	88.6	70.8	106.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

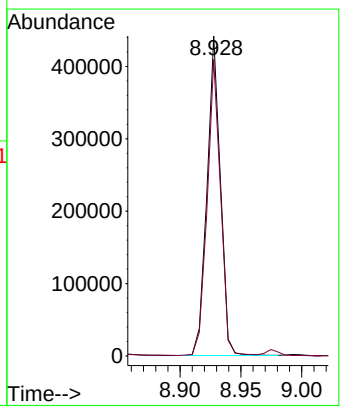
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

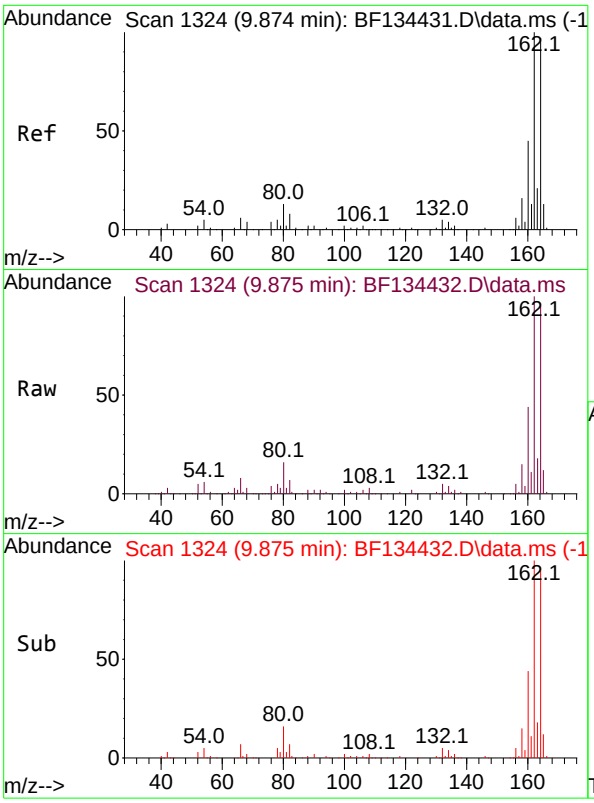


#38
1-Methylnaphthalene
Concen: 48.293 ng
RT: 8.928 min Scan# 1163
Delta R.T. 0.000 min
Lab File: BF134432.D
Acq: 24 Jul 2023 16:36

Tgt Ion:142 Resp: 336755

Ion	Ratio	Lower	Upper
142	100		
141	92.7	71.4	107.2

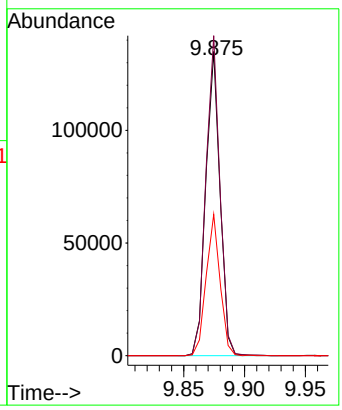




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.875 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134432.D
Acq: 24 Jul 2023 16:36

Tgt Ion:164 Resp: 10939

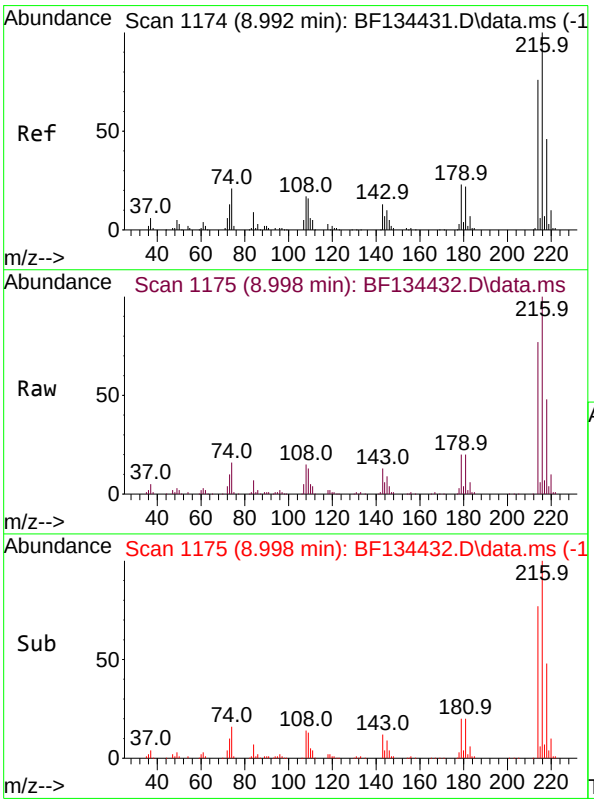
Ion	Ratio	Lower	Upper
164	100		
162	105.2	82.6	123.8
160	46.4	37.2	55.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

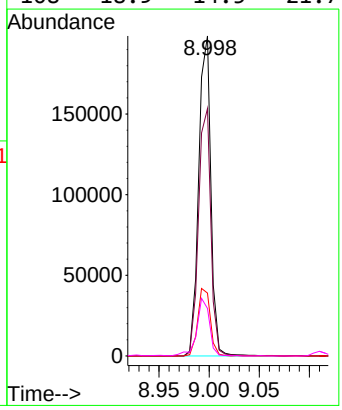
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

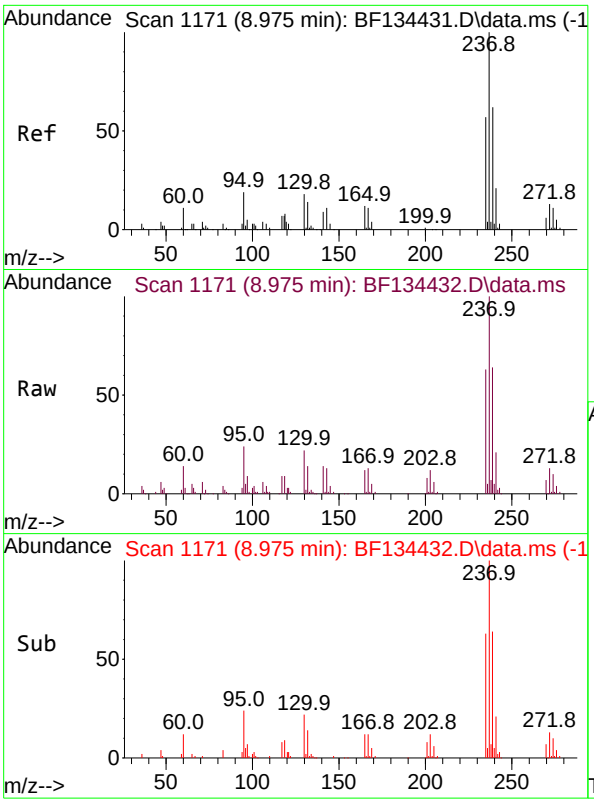


#40
1,2,4,5-Tetrachlorobenzene
Concen: 48.417 ng
RT: 8.998 min Scan# 1175
Delta R.T. 0.006 min
Lab File: BF134432.D
Acq: 24 Jul 2023 16:36

Tgt Ion:216 Resp: 167852

Ion	Ratio	Lower	Upper
216	100		
214	78.5	62.3	93.5
179	21.8	17.4	26.0
108	18.9	14.5	21.7

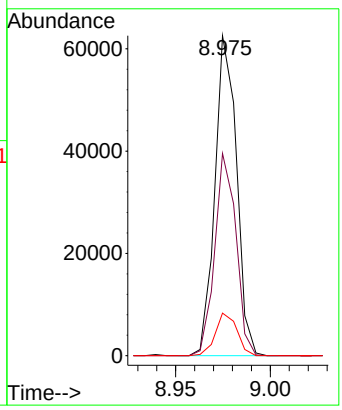




#41
Hexachlorocyclopentadiene
Concen: 51.062 ng
RT: 8.975 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF134432.D
Acq: 24 Jul 2023 16:36

Tgt Ion:237 Resp: 4965

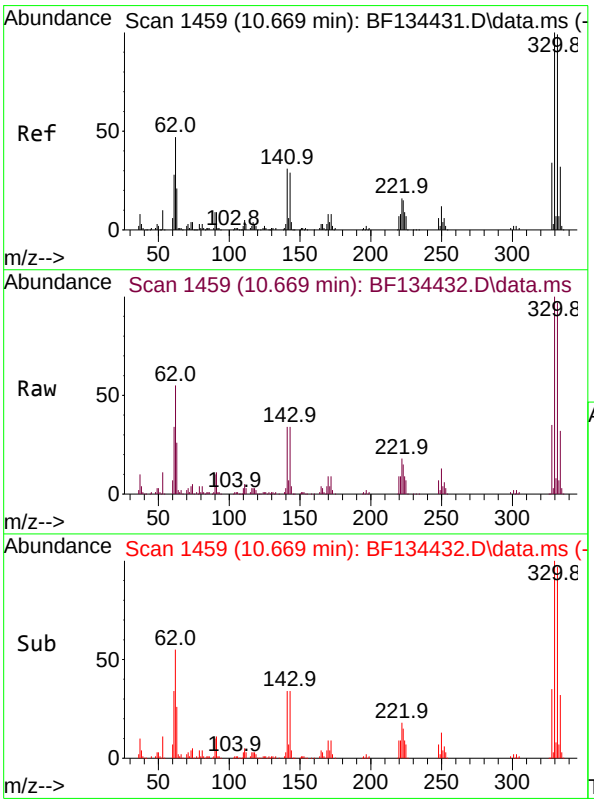
Ion	Ratio	Lower	Upper
237	100		
235	63.2	37.0	77.0
272	13.3	0.0	32.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

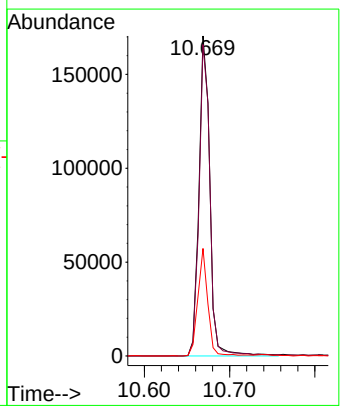
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

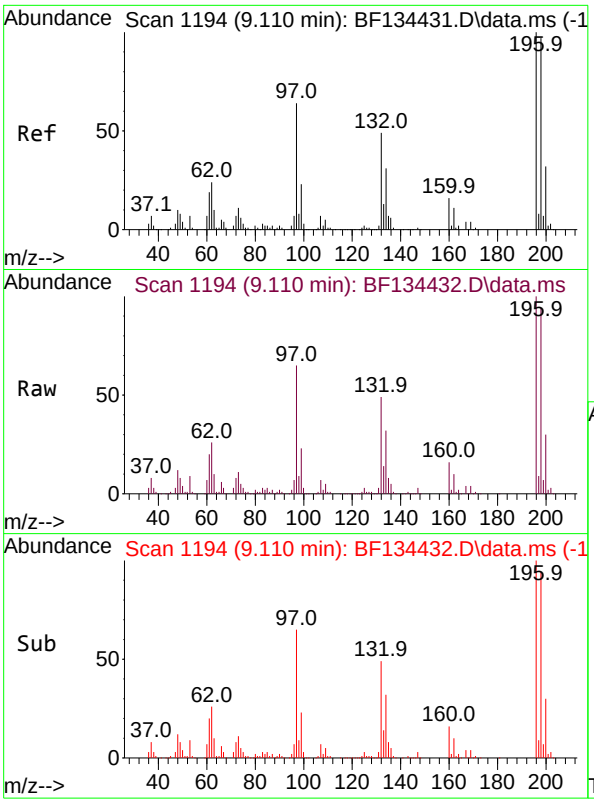


#42
2,4,6-Tribromophenol
Concen: 97.383 ng
RT: 10.669 min Scan# 1459
Delta R.T. 0.000 min
Lab File: BF134432.D
Acq: 24 Jul 2023 16:36

Tgt Ion:330 Resp: 151365

Ion	Ratio	Lower	Upper
330	100		
332	97.5	78.8	118.2
141	30.8	25.4	38.2

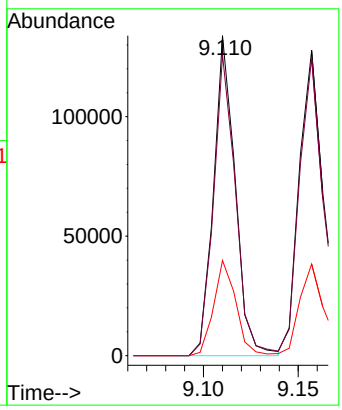




#43
2,4,6-Trichlorophenol
Concen: 47.842 ng
RT: 9.110 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134432.D
Acq: 24 Jul 2023 16:36

Tgt Ion:196 Resp: 10640

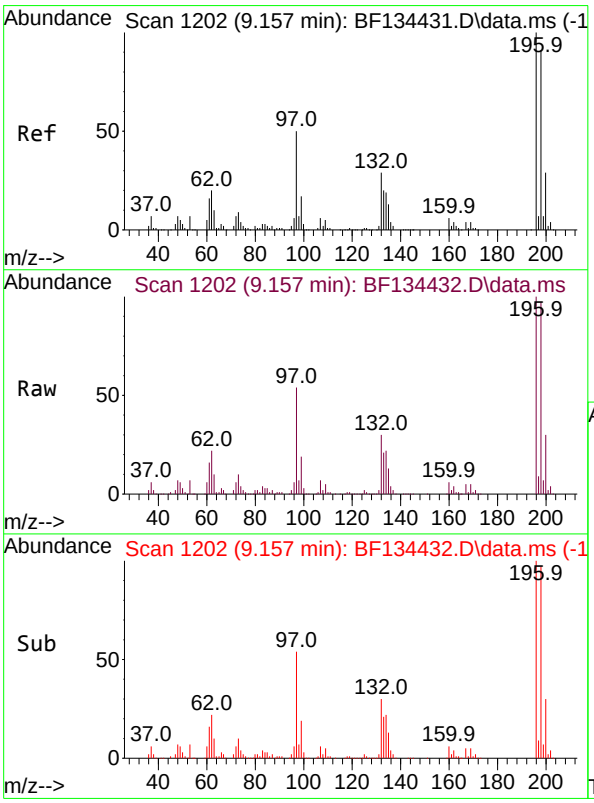
Ion	Ratio	Lower	Upper
196	100		
198	94.1	77.4	116.2
200	29.7	25.4	38.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

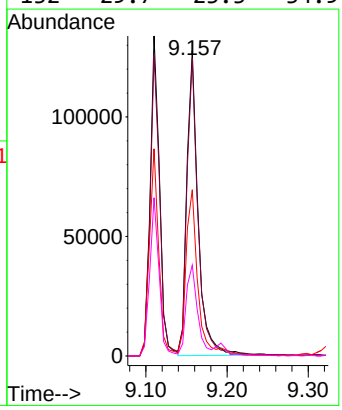
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

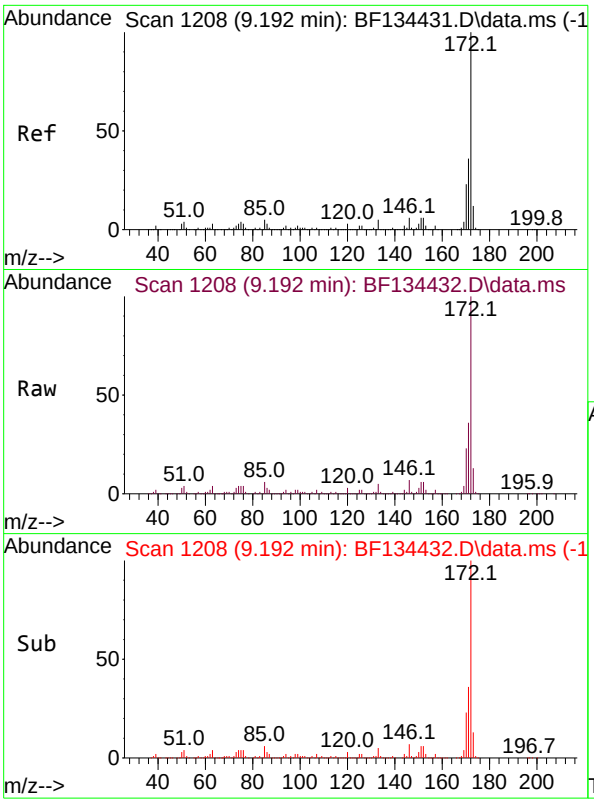


#44
2,4,5-Trichlorophenol
Concen: 47.870 ng
RT: 9.157 min Scan# 1202
Delta R.T. 0.000 min
Lab File: BF134432.D
Acq: 24 Jul 2023 16:36

Tgt Ion:196 Resp: 124040

Ion	Ratio	Lower	Upper
196	100		
198	97.5	73.0	109.4
97	54.4	40.8	61.2
132	29.7	23.3	34.9

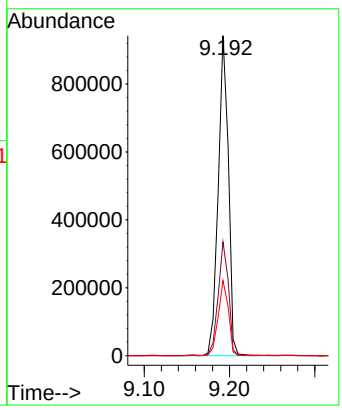




#45
2-Fluorobiphenyl
Concen: 93.696 ng
RT: 9.192 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134432.D
Acq: 24 Jul 2023 16:36

Tgt Ion:172 Resp: 78078

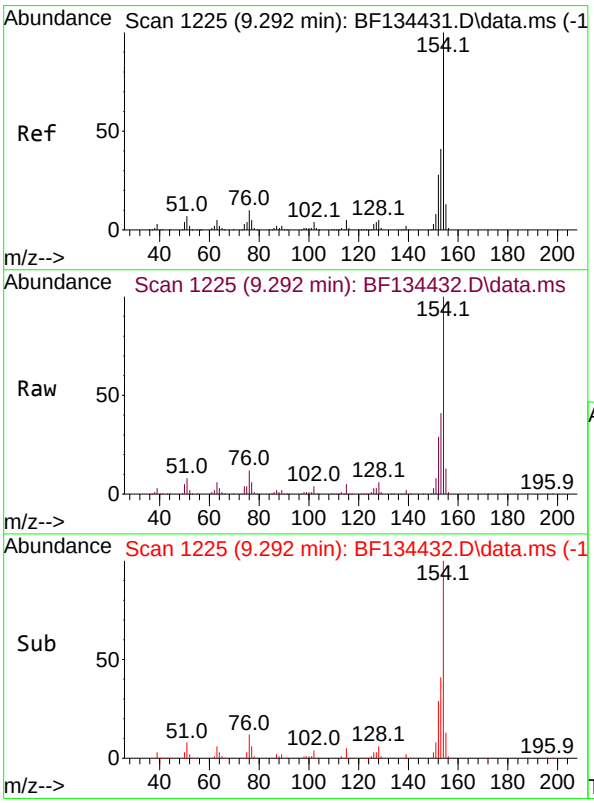
Ion	Ratio	Lower	Upper
172	100		
171	35.6	28.8	43.2
170	23.5	18.7	28.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

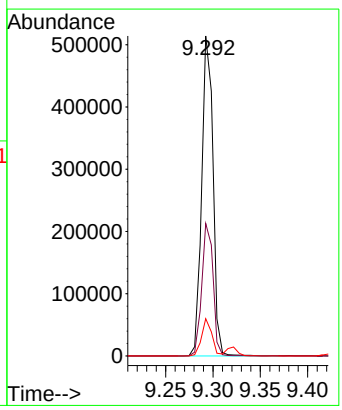
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

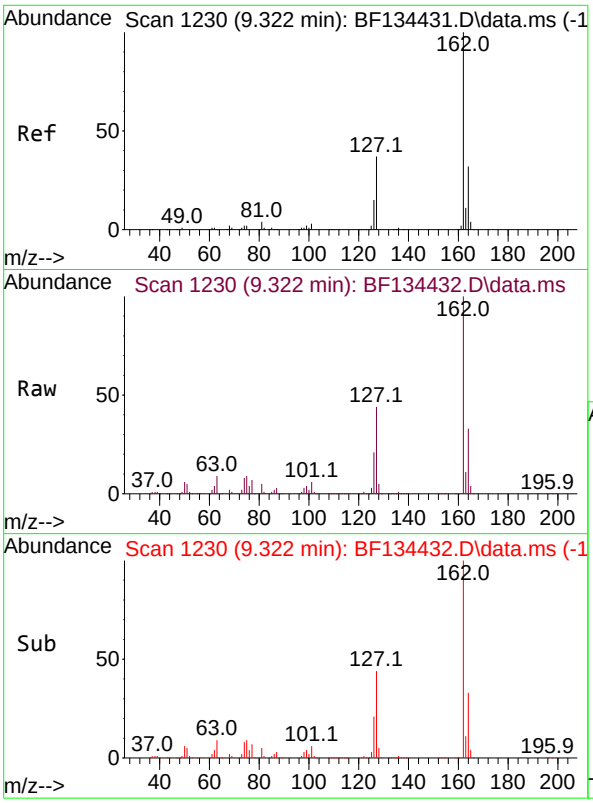


#46
1,1'-Biphenyl
Concen: 47.278 ng
RT: 9.292 min Scan# 1225
Delta R.T. 0.000 min
Lab File: BF134432.D
Acq: 24 Jul 2023 16:36

Tgt Ion:154 Resp: 426279

Ion	Ratio	Lower	Upper
154	100		
153	41.4	20.8	60.8
76	11.7	0.0	30.2

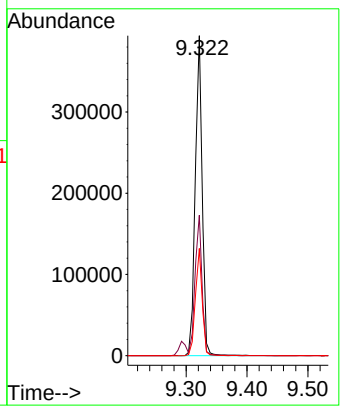




#47
2-Chloronaphthalene
Concen: 47.078 ng
RT: 9.322 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134432.D
Acq: 24 Jul 2023 16:36

Tgt Ion:162 Resp: 31293

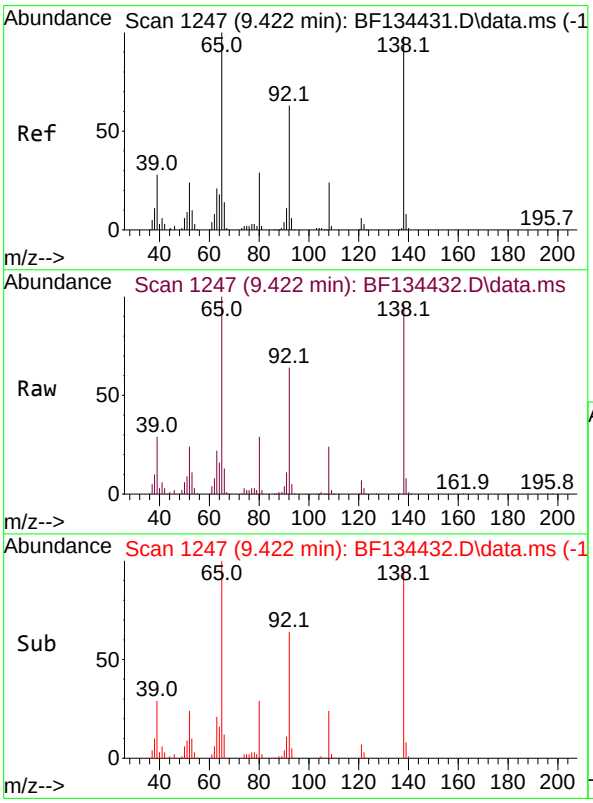
Ion	Ratio	Lower	Upper
162	100		
127	43.9	34.0	51.0
164	33.5	25.7	38.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

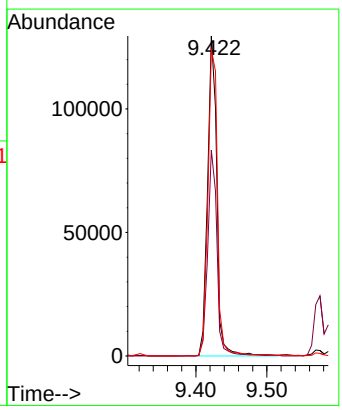
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

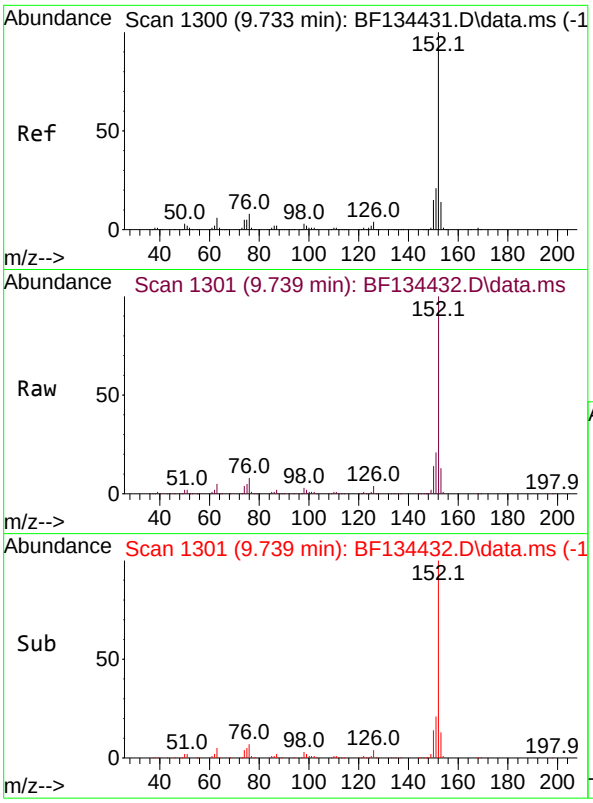


#48
2-Nitroaniline
Concen: 49.121 ng
RT: 9.422 min Scan# 1247
Delta R.T. 0.000 min
Lab File: BF134432.D
Acq: 24 Jul 2023 16:36

Tgt Ion: 65 Resp: 117591

Ion	Ratio	Lower	Upper
65	100		
92	64.3	50.7	76.1
138	95.7	78.2	117.4

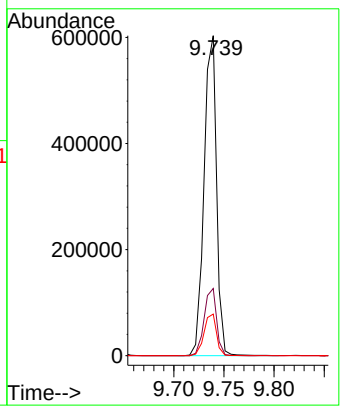




#49
Acenaphthylene
Concen: 46.827 ng
RT: 9.739 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF134432.D
Acq: 24 Jul 2023 16:36

Tgt Ion:152 Resp: 52585

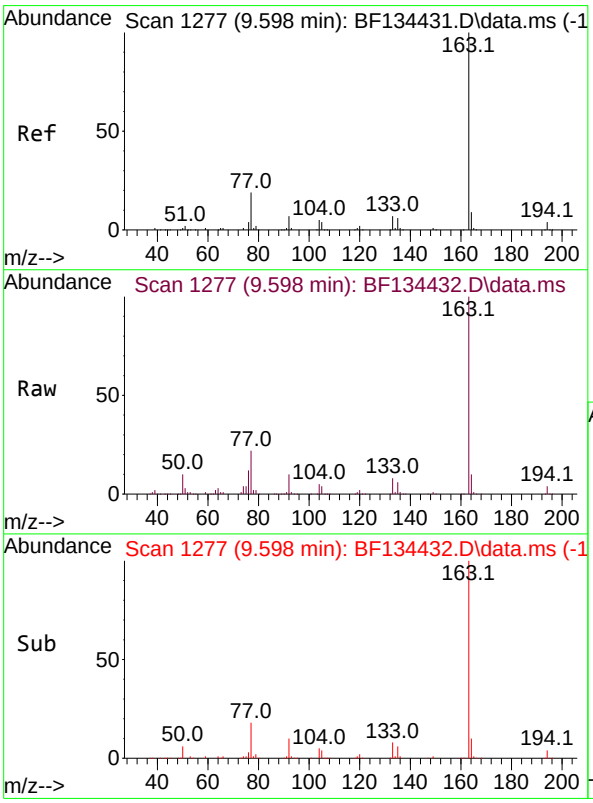
Ion	Ratio	Lower	Upper
152	100		
151	21.0	16.4	24.6
153	13.0	10.9	16.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

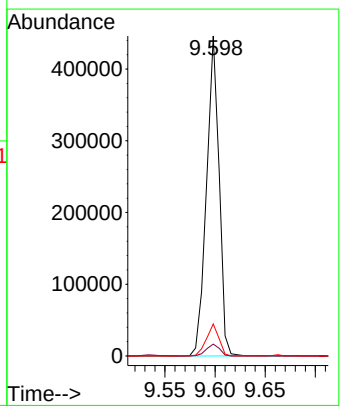
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

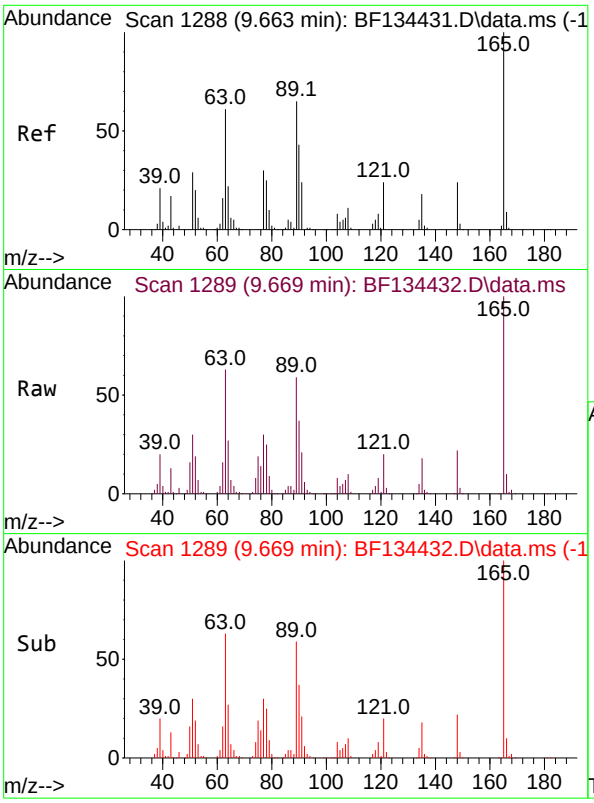


#50
Dimethylphthalate
Concen: 48.208 ng
RT: 9.598 min Scan# 1277
Delta R.T. 0.000 min
Lab File: BF134432.D
Acq: 24 Jul 2023 16:36

Tgt Ion:163 Resp: 390947

Ion	Ratio	Lower	Upper
163	100		
194	3.7	3.3	4.9
164	10.0	7.5	11.3





#51
2,6-Dinitrotoluene
Concen: 47.353 ng
RT: 9.669 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF134432.D
Acq: 24 Jul 2023 16:36

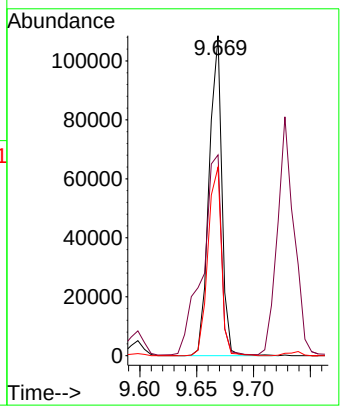
Tgt Ion:165 Resp: 8426

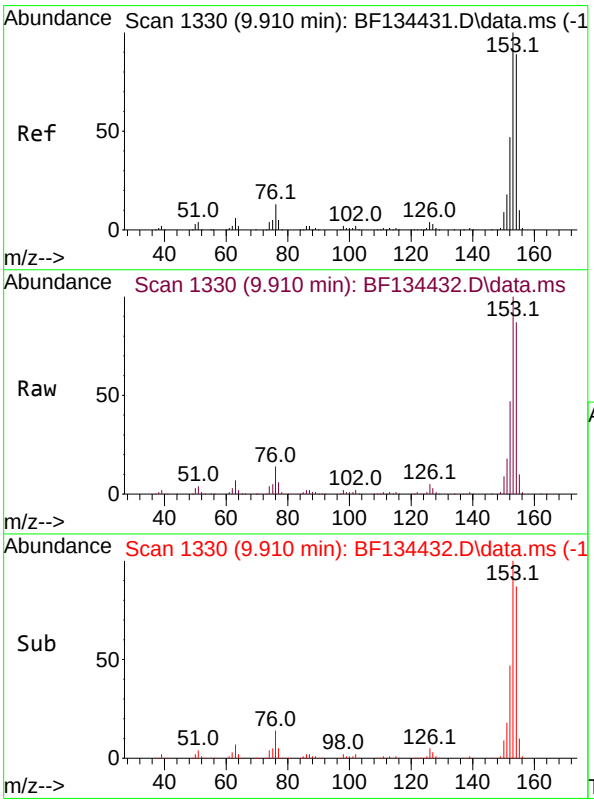
Ion	Ratio	Lower	Upper
165	100		
63	62.8	57.8	86.6
89	58.9	51.8	77.8

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

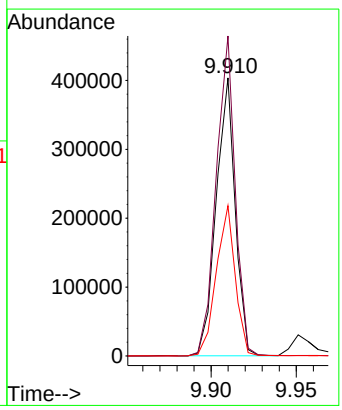


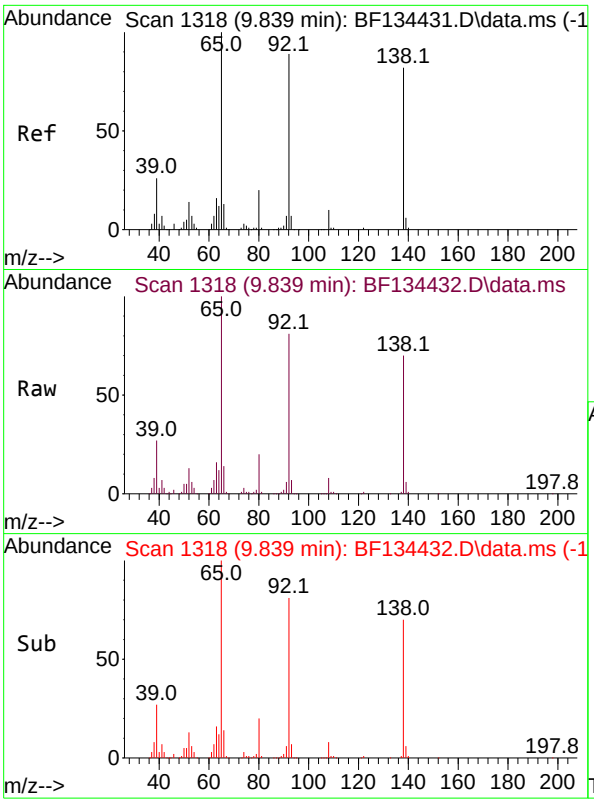


#52
Acenaphthene
Concen: 47.263 ng
RT: 9.910 min Scan# 1330
Delta R.T. -0.000 min
Lab File: BF134432.D
Acq: 24 Jul 2023 16:36

Tgt Ion:154 Resp: 313528

Ion	Ratio	Lower	Upper
154	100		
153	115.1	90.0	135.0
152	54.0	42.4	63.6

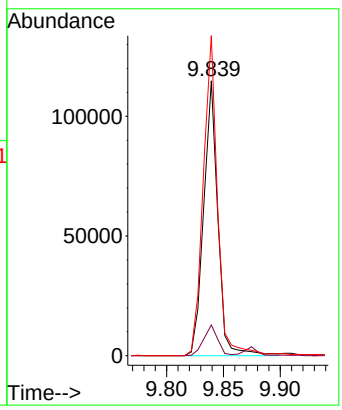




#53
3-Nitroaniline
Concen: 48.821 ng
RT: 9.839 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134432.D
Acq: 24 Jul 2023 16:36

Tgt Ion:138 Resp: 9960

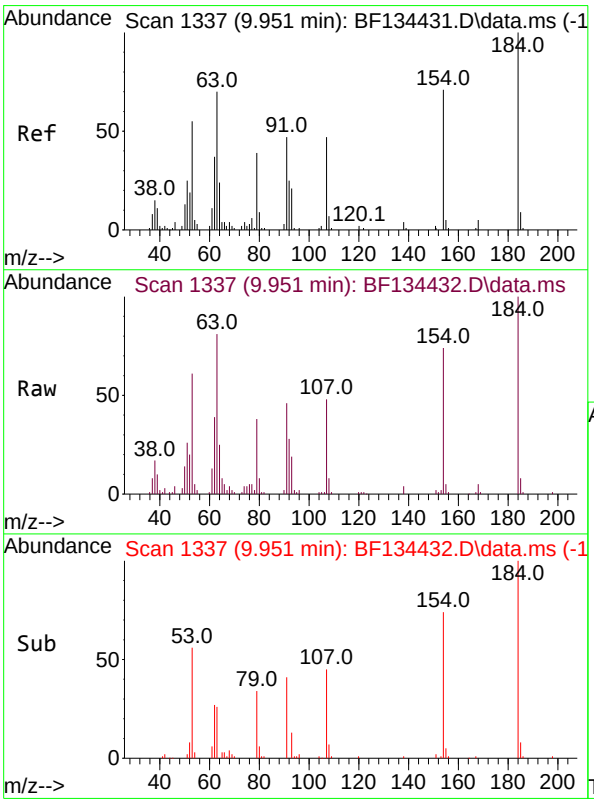
Ion	Ratio	Lower	Upper
138	100		
108	11.2	9.3	13.9
92	116.4	86.6	129.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

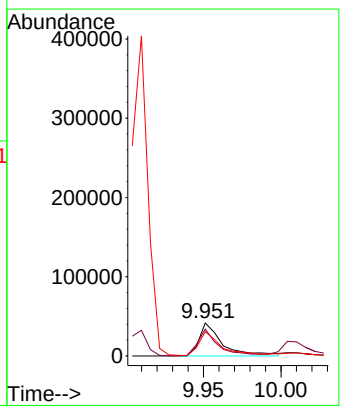
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

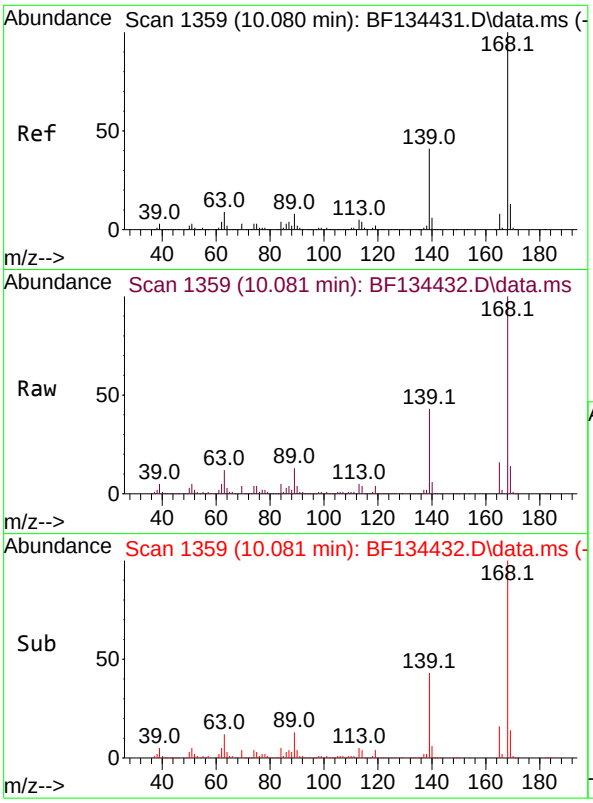


#54
2,4-Dinitrophenol
Concen: 49.053 ng
RT: 9.951 min Scan# 1337
Delta R.T. 0.000 min
Lab File: BF134432.D
Acq: 24 Jul 2023 16:36

Tgt Ion:184 Resp: 43209

Ion	Ratio	Lower	Upper
184	100		
63	81.5	57.1	85.7
154	73.8	59.1	88.7

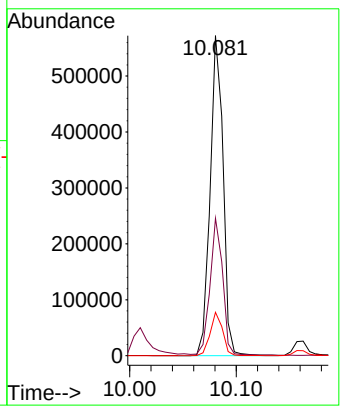




#55
Dibenzofuran
Concen: 47.373 ng
RT: 10.081 min Scan# 1
Delta R.T. 0.001 min
Lab File: BF134432.D
Acq: 24 Jul 2023 16:36

Tgt Ion:168 Resp: 48367

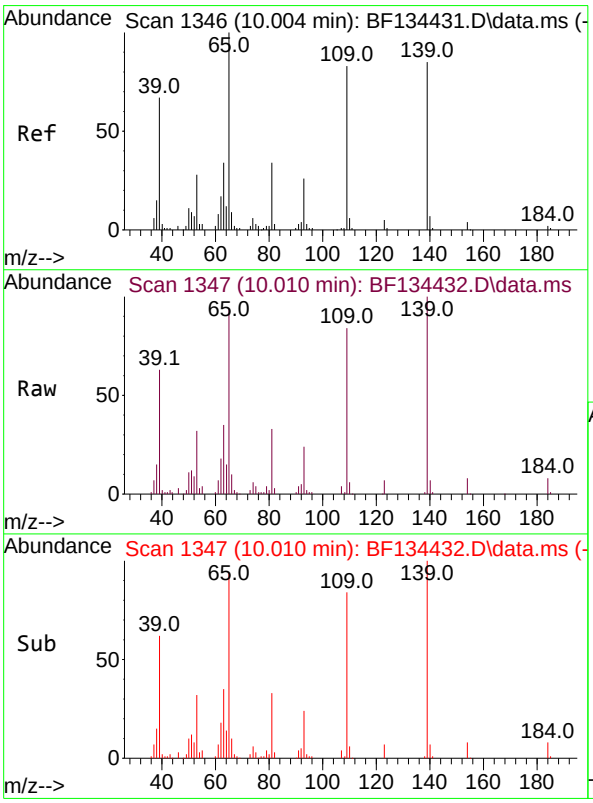
Ion	Ratio	Lower	Upper
168	100		
139	43.0	33.4	50.2
169	13.6	10.6	15.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

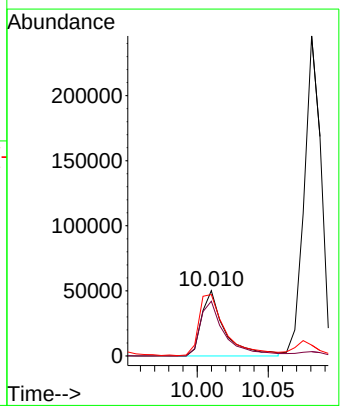
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

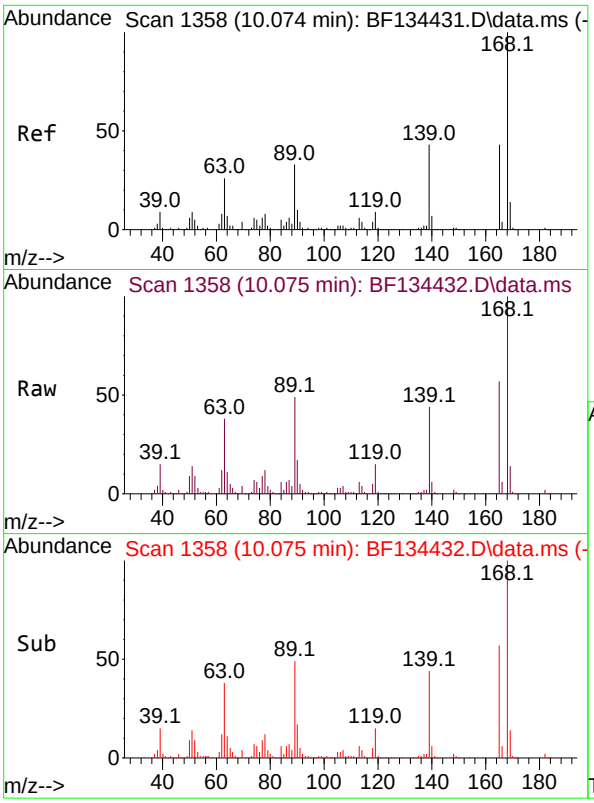


#56
4-Nitrophenol
Concen: 52.261 ng
RT: 10.010 min Scan# 1347
Delta R.T. 0.006 min
Lab File: BF134432.D
Acq: 24 Jul 2023 16:36

Tgt Ion:139 Resp: 56858

Ion	Ratio	Lower	Upper
139	100		
109	83.9	76.9	116.9
65	94.2	98.5	138.5#

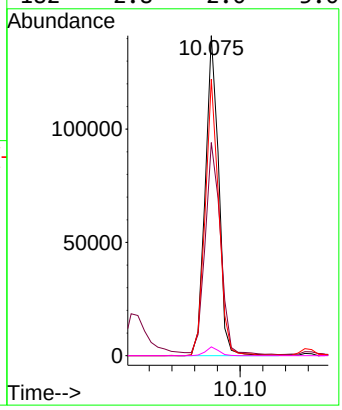




#57
2,4-Dinitrotoluene
Concen: 48.380 ng
RT: 10.075 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134432.D
Acq: 24 Jul 2023 16:36

Tgt Ion:165 Resp: 11562

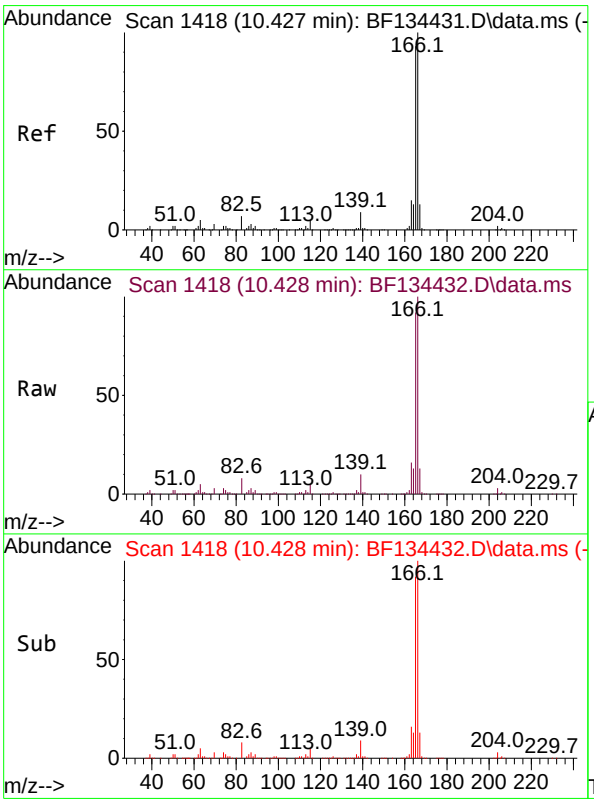
Ion	Ratio	Lower	Upper
165	100		
63	66.6	48.9	73.3
89	86.4	61.7	92.5
182	2.8	2.0	3.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

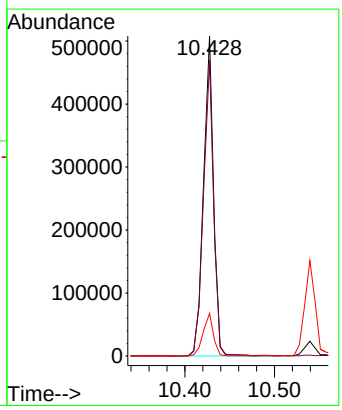
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

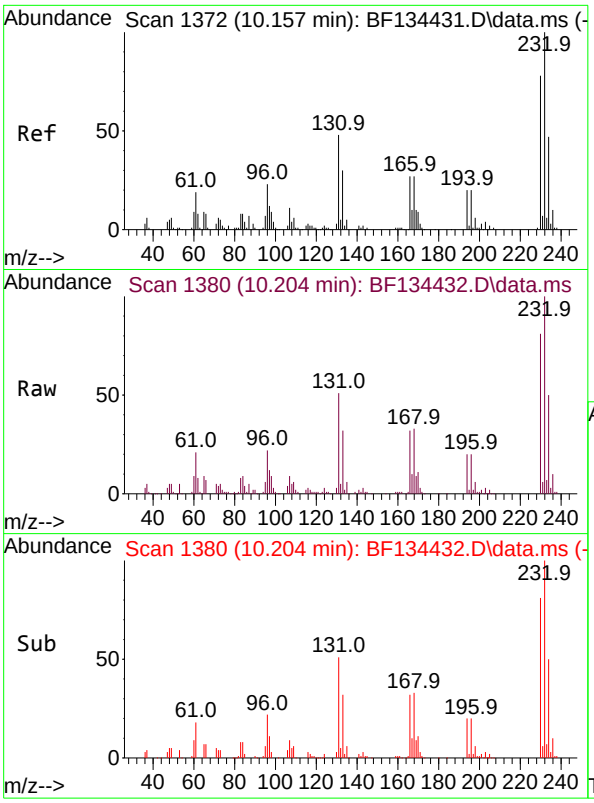


#58
Fluorene
Concen: 47.820 ng
RT: 10.428 min Scan# 1418
Delta R.T. 0.001 min
Lab File: BF134432.D
Acq: 24 Jul 2023 16:36

Tgt Ion:166 Resp: 393873

Ion	Ratio	Lower	Upper
166	100		
165	92.3	74.5	111.7
167	13.3	10.6	16.0

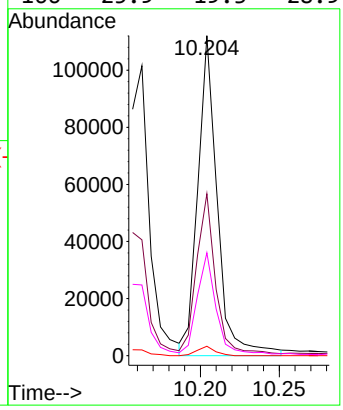




#59
2,3,4,6-Tetrachlorophenol
Concen: 48.370 ng m
RT: 10.204 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134432.D
Acq: 24 Jul 2023 16:36

Tgt Ion:232 Resp: 9666

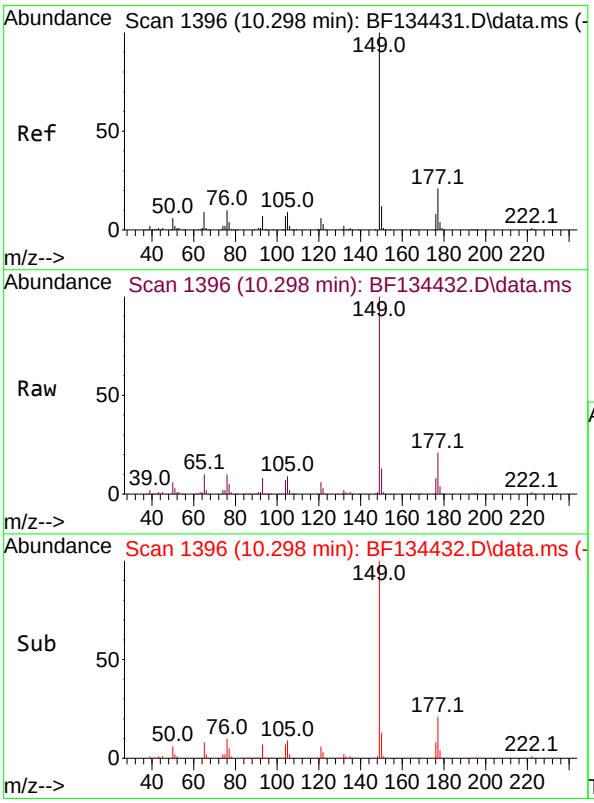
Ion	Ratio	Lower	Upper
232	100		
131	42.8	33.4	50.0
130	2.2	1.8	2.6
166	25.9	19.3	28.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

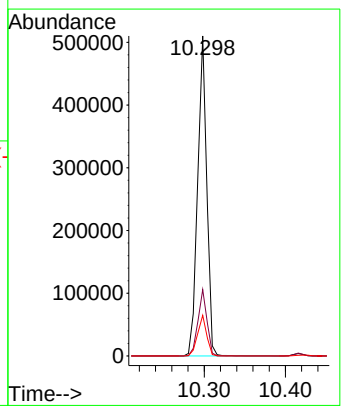
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

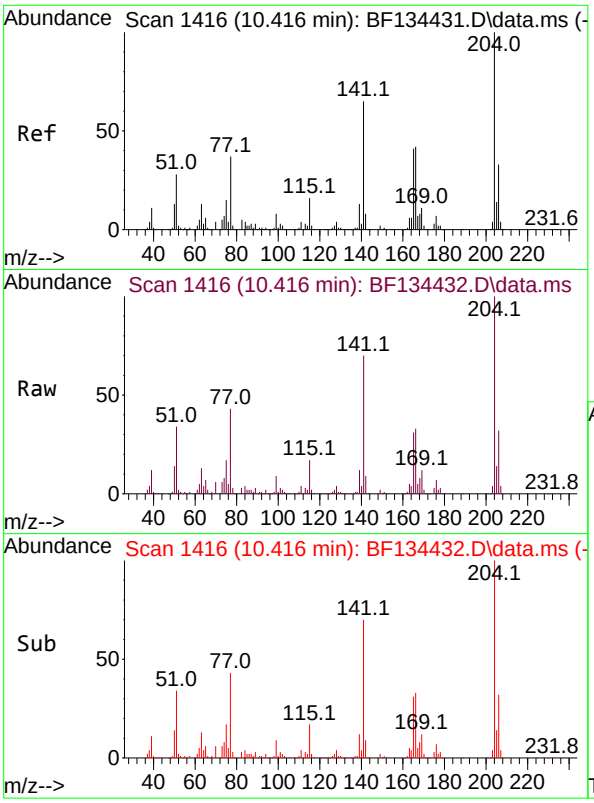


#60
Diethylphthalate
Concen: 47.732 ng
RT: 10.298 min Scan# 1396
Delta R.T. 0.000 min
Lab File: BF134432.D
Acq: 24 Jul 2023 16:36

Tgt Ion:149 Resp: 400763

Ion	Ratio	Lower	Upper
149	100		
177	20.7	17.0	25.4
150	12.7	9.9	14.9

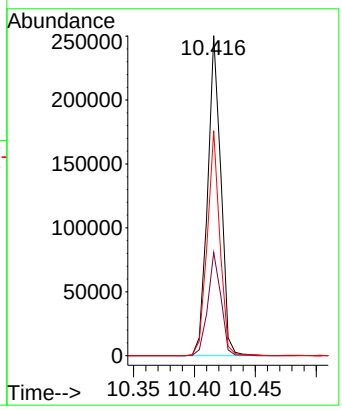




#61
4-Chlorophenyl-phenylether
Concen: 47.816 ng
RT: 10.416 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF134432.D
Acq: 24 Jul 2023 16:36

Tgt Ion:204 Resp: 18813

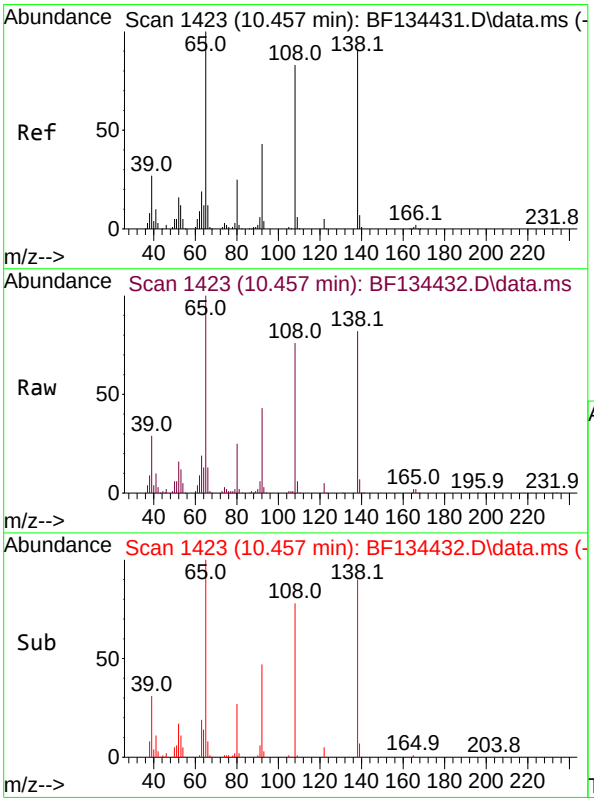
Ion	Ratio	Lower	Upper
204	100		
206	32.3	26.0	39.0
141	70.3	52.2	78.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

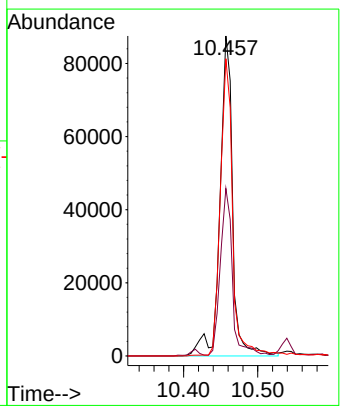
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

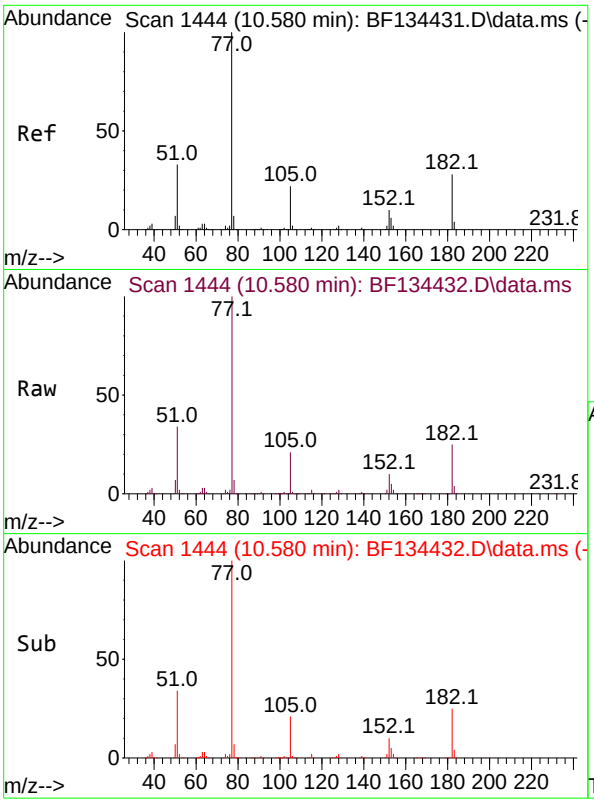


#62
4-Nitroaniline
Concen: 49.459 ng
RT: 10.457 min Scan# 1423
Delta R.T. 0.000 min
Lab File: BF134432.D
Acq: 24 Jul 2023 16:36

Tgt Ion:138 Resp: 103487

Ion	Ratio	Lower	Upper
138	100		
92	52.4	27.0	67.0
108	92.9	70.4	110.4

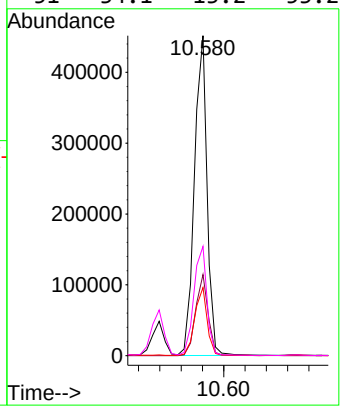




#63
Azobenzene
Concen: 48.258 ng
RT: 10.580 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF134432.D
Acq: 24 Jul 2023 16:36

Tgt Ion: 77 Resp: 37295

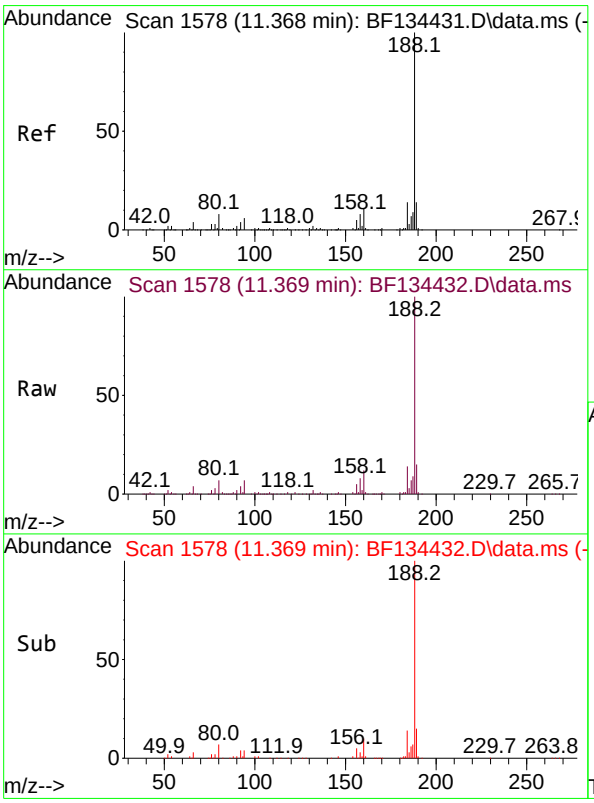
Ion	Ratio	Lower	Upper
77	100		
182	25.3	7.5	47.5
105	21.3	1.9	41.9
51	34.1	13.2	53.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

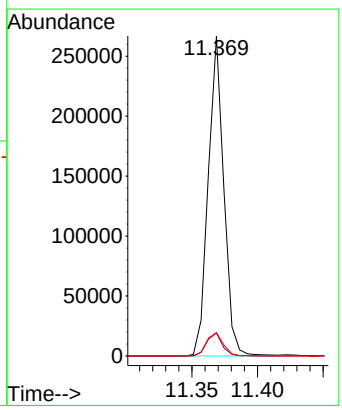
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

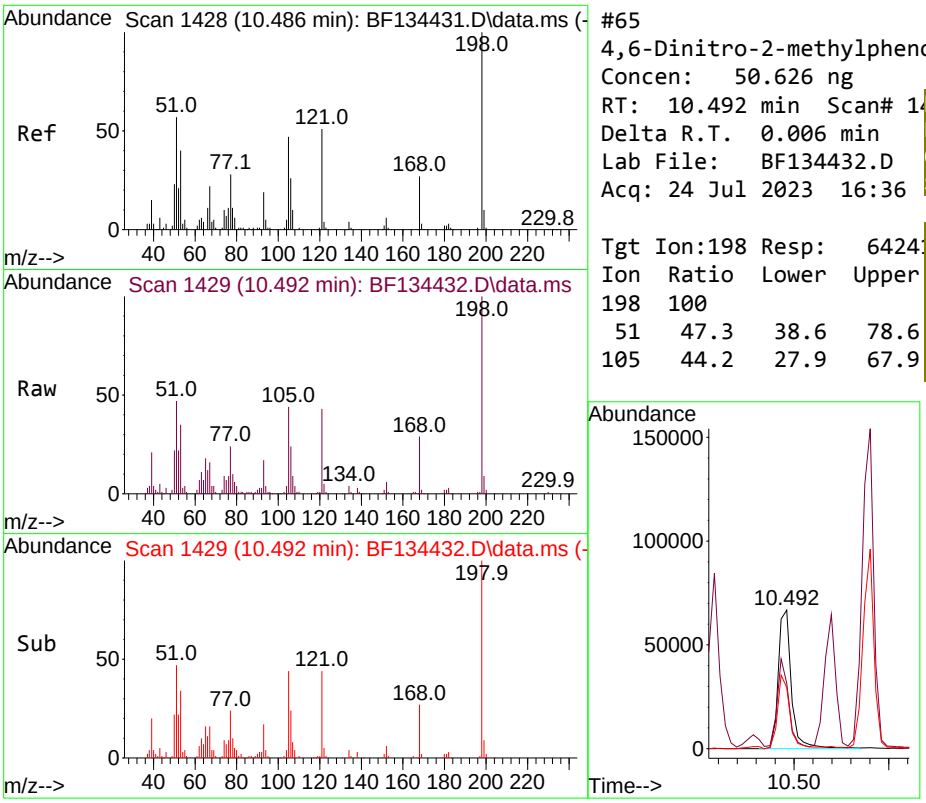


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.369 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BF134432.D
Acq: 24 Jul 2023 16:36

Tgt Ion:188 Resp: 221212

Ion	Ratio	Lower	Upper
188	100		
94	7.2	5.1	7.7
80	7.3	6.6	9.8





#65
4,6-Dinitro-2-methylphenol
Concen: 50.626 ng
RT: 10.492 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF134432.D
Acq: 24 Jul 2023 16:36

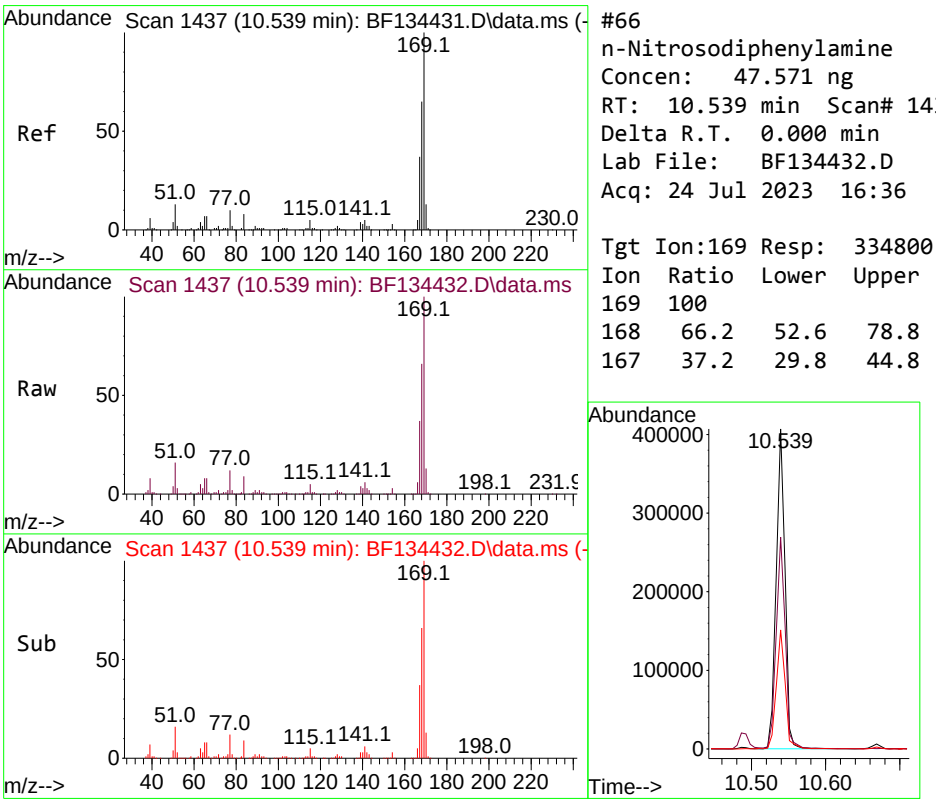
Tgt Ion:198 Resp: 6424

Ion	Ratio	Lower	Upper
198	100		
51	47.3	38.6	78.6
105	44.2	27.9	67.9

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

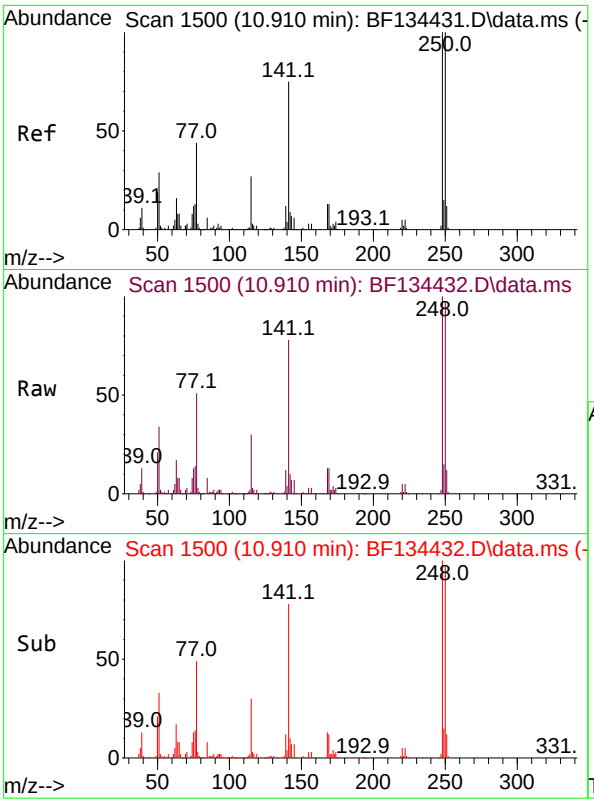
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023



#66
n-Nitrosodiphenylamine
Concen: 47.571 ng
RT: 10.539 min Scan# 1437
Delta R.T. 0.000 min
Lab File: BF134432.D
Acq: 24 Jul 2023 16:36

Tgt Ion:169 Resp: 334800

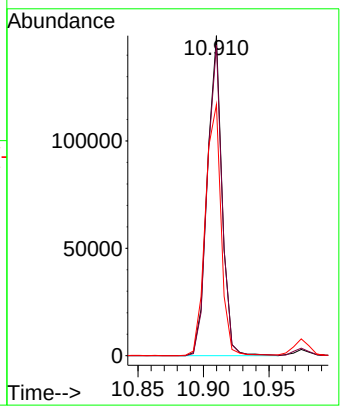
Ion	Ratio	Lower	Upper
169	100		
168	66.2	52.6	78.8
167	37.2	29.8	44.8



#67
4-Bromophenyl-phenylether
Concen: 47.877 ng
RT: 10.910 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134432.D
Acq: 24 Jul 2023 16:36

Tgt Ion:248 Resp: 11604

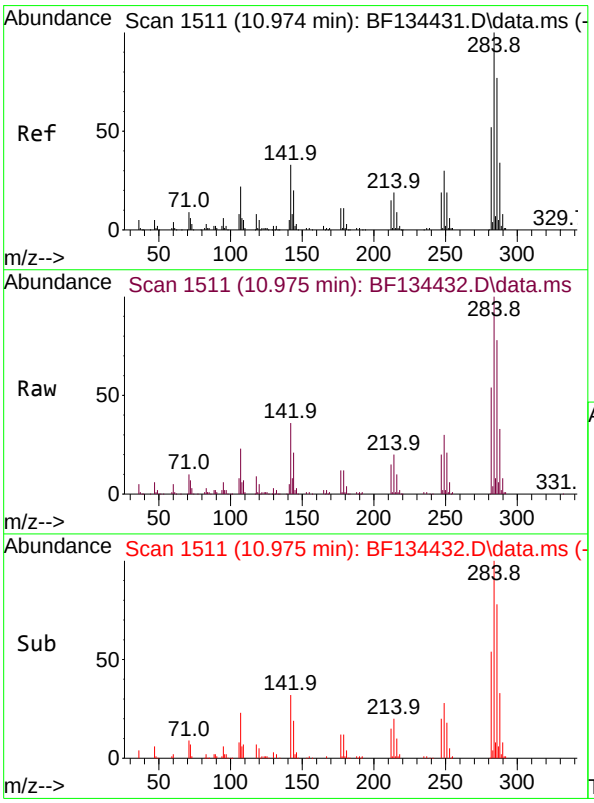
Ion	Ratio	Lower	Upper
248	100		
250	97.1	79.6	119.4
141	78.5	59.6	89.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

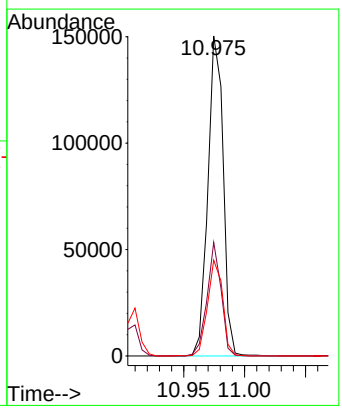
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

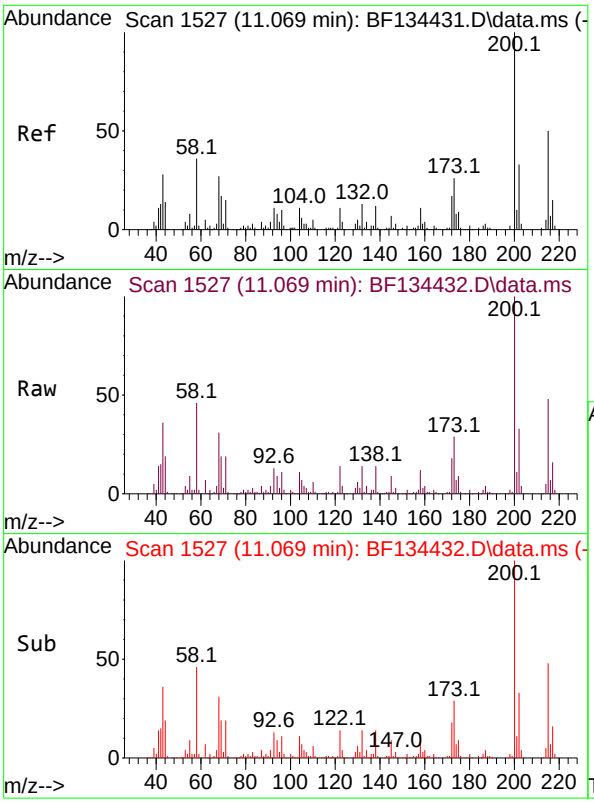


#68
Hexachlorobenzene
Concen: 48.084 ng
RT: 10.975 min Scan# 1511
Delta R.T. 0.000 min
Lab File: BF134432.D
Acq: 24 Jul 2023 16:36

Tgt Ion:284 Resp: 131236

Ion	Ratio	Lower	Upper
284	100		
142	35.5	26.5	39.7
249	30.0	23.8	35.8

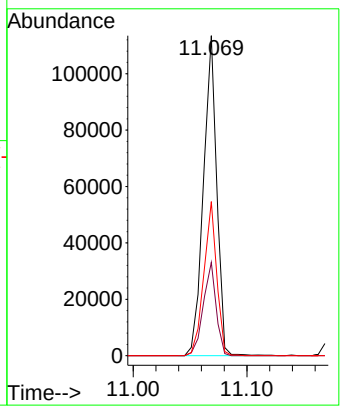




#69
Atrazine
Concen: 47.074 ng
RT: 11.069 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134432.D
Acq: 24 Jul 2023 16:36

Tgt Ion:200 Resp: 9237

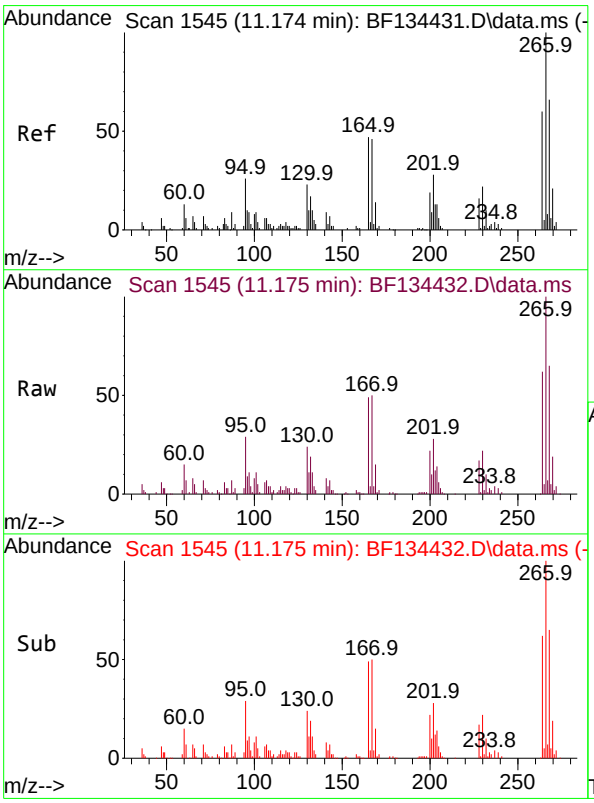
Ion	Ratio	Lower	Upper
200	100		
173	29.2	6.1	46.1
215	48.1	29.7	69.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

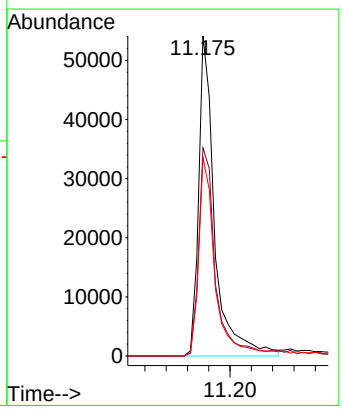
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

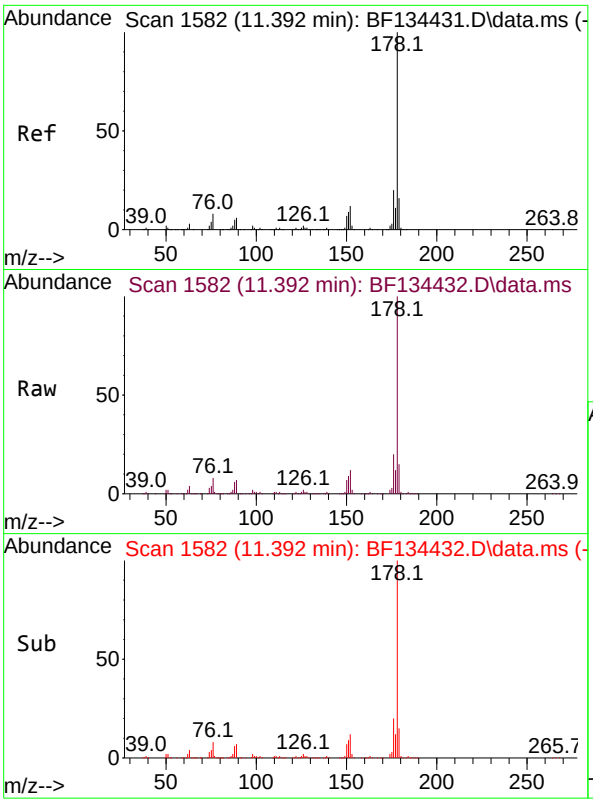


#70
Pentachlorophenol
Concen: 49.609 ng
RT: 11.175 min Scan# 1545
Delta R.T. 0.001 min
Lab File: BF134432.D
Acq: 24 Jul 2023 16:36

Tgt Ion:266 Resp: 56822

Ion	Ratio	Lower	Upper
266	100		
268	65.1	52.9	79.3
264	62.0	47.8	71.6

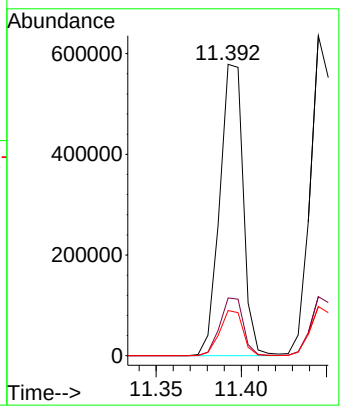




#71
Phenanthrene
Concen: 48.113 ng
RT: 11.392 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134432.D
Acq: 24 Jul 2023 16:36

Tgt Ion:178 Resp: 55608

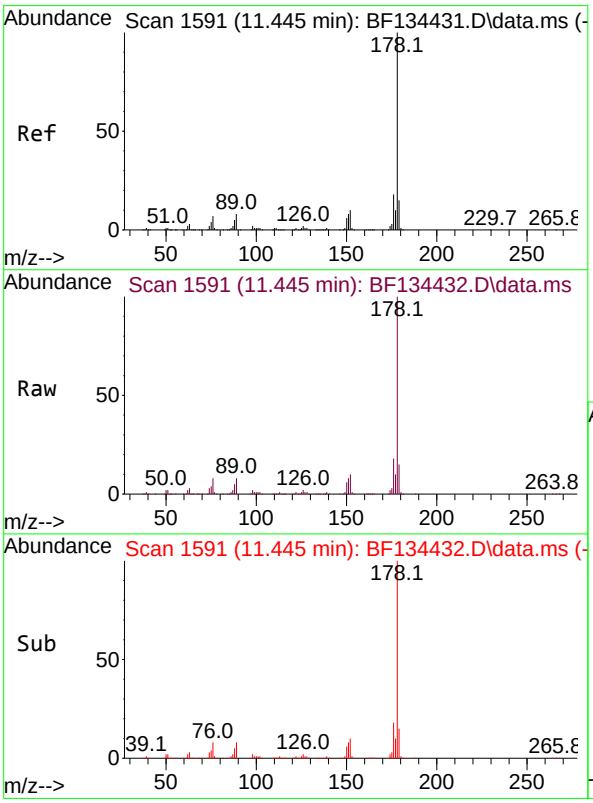
Ion	Ratio	Lower	Upper
178	100		
176	19.8	15.8	23.6
179	15.5	12.7	19.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

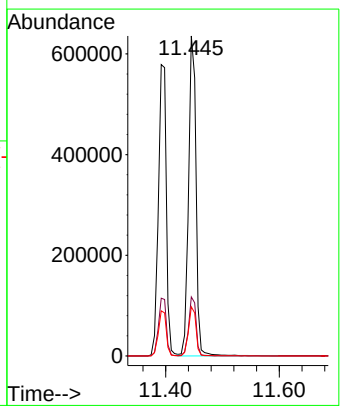
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

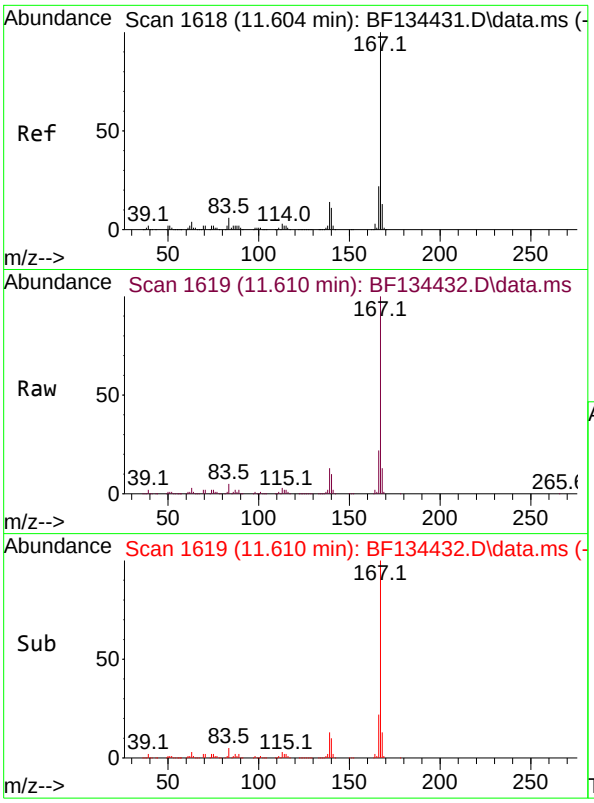


#72
Anthracene
Concen: 48.538 ng
RT: 11.445 min Scan# 1591
Delta R.T. 0.000 min
Lab File: BF134432.D
Acq: 24 Jul 2023 16:36

Tgt Ion:178 Resp: 579017

Ion	Ratio	Lower	Upper
178	100		
176	18.4	14.6	21.8
179	15.3	12.3	18.5

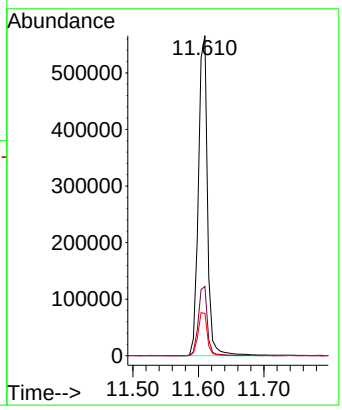




#73
Carbazole
Concen: 48.691 ng
RT: 11.610 min Scan# 1(
Delta R.T. 0.006 min
Lab File: BF134432.D
Acq: 24 Jul 2023 16:36

Tgt Ion:167 Resp: 54696(

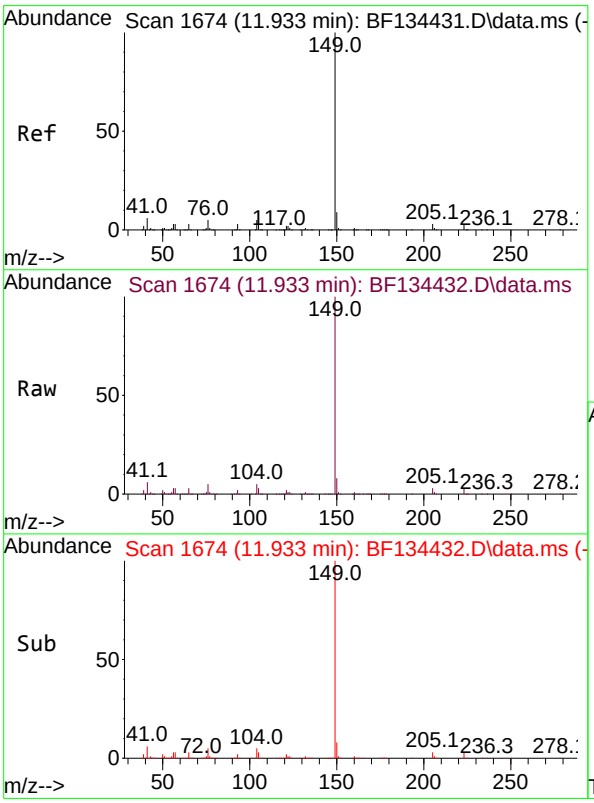
Ion	Ratio	Lower	Upper
167	100		
166	21.7	17.5	26.3
139	13.2	11.0	16.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

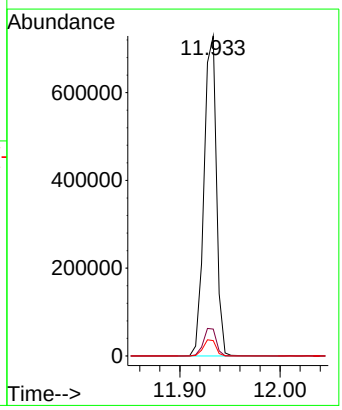
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

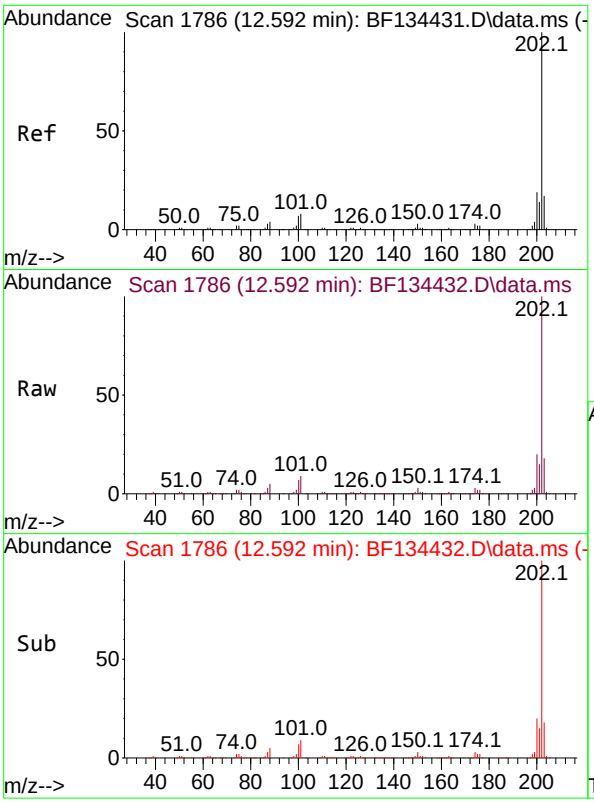


#74
Di-n-butylphthalate
Concen: 48.870 ng
RT: 11.933 min Scan# 1674
Delta R.T. 0.000 min
Lab File: BF134432.D
Acq: 24 Jul 2023 16:36

Tgt Ion:149 Resp: 630181

Ion	Ratio	Lower	Upper
149	100		
150	8.4	7.2	10.8
104	4.8	3.8	5.8

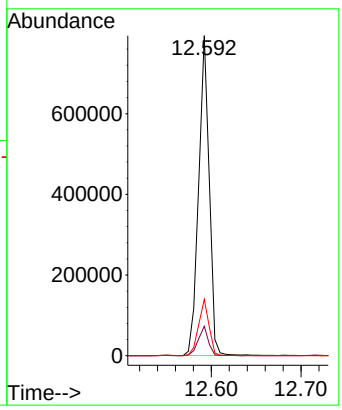




#75
Fluoranthene
Concen: 48.283 ng
RT: 12.592 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134432.D
Acq: 24 Jul 2023 16:36

Tgt Ion:202 Resp: 65037

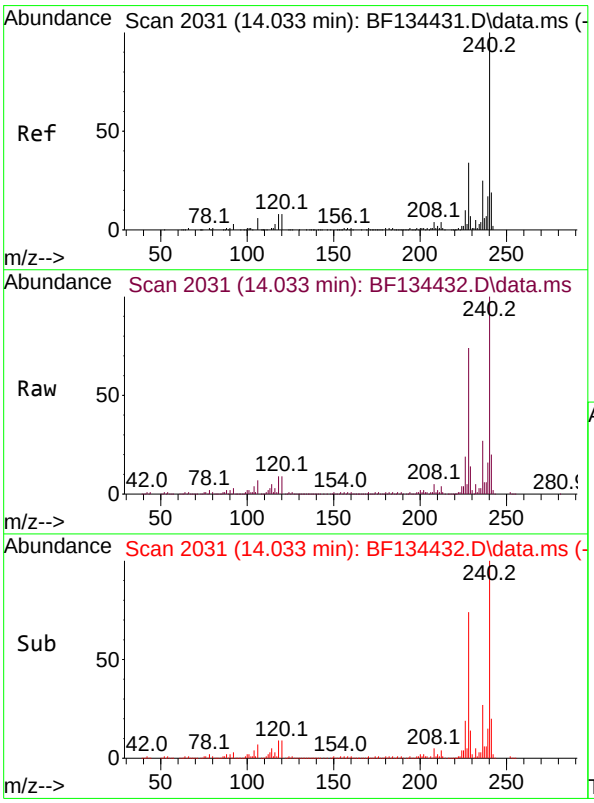
Ion	Ratio	Lower	Upper
202	100		
101	9.2	0.0	28.5
203	17.6	0.0	37.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

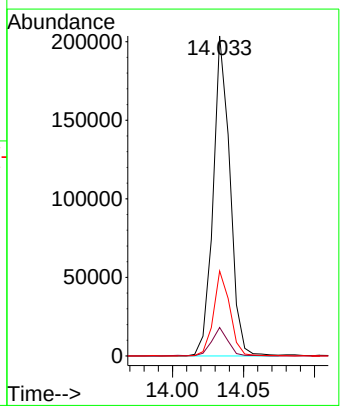
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

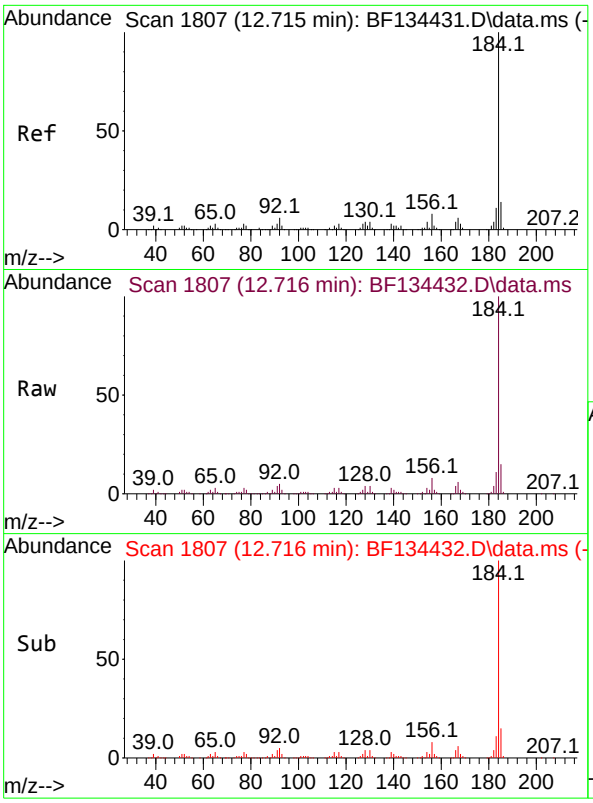


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.033 min Scan# 2031
Delta R.T. 0.000 min
Lab File: BF134432.D
Acq: 24 Jul 2023 16:36

Tgt Ion:240 Resp: 167180

Ion	Ratio	Lower	Upper
240	100		
120	8.9	6.6	10.0
236	26.5	20.2	30.2

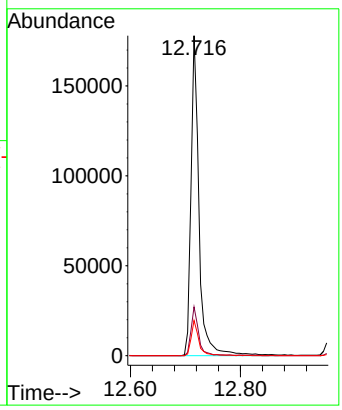




#77
Benzidine
Concen: 50.469 ng
RT: 12.716 min Scan# 1
Delta R.T. 0.001 min
Lab File: BF134432.D
Acq: 24 Jul 2023 16:36

Tgt Ion:184 Resp: 18015

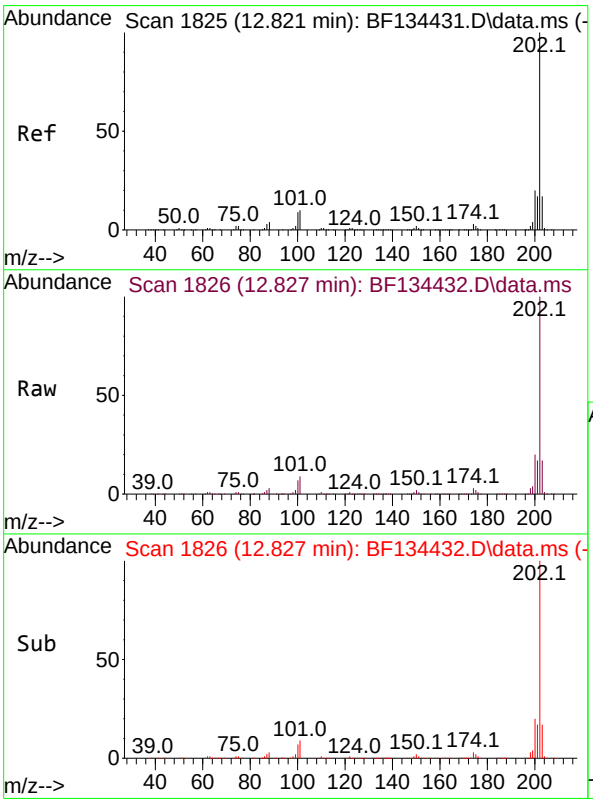
Ion	Ratio	Lower	Upper
184	100		
185	15.2	11.2	16.8
183	11.0	8.6	13.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

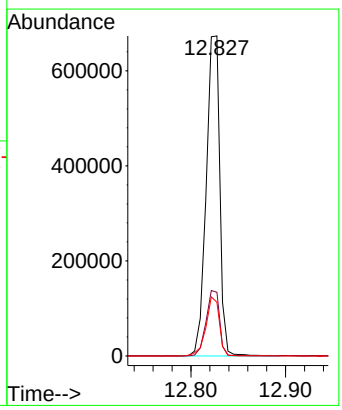
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

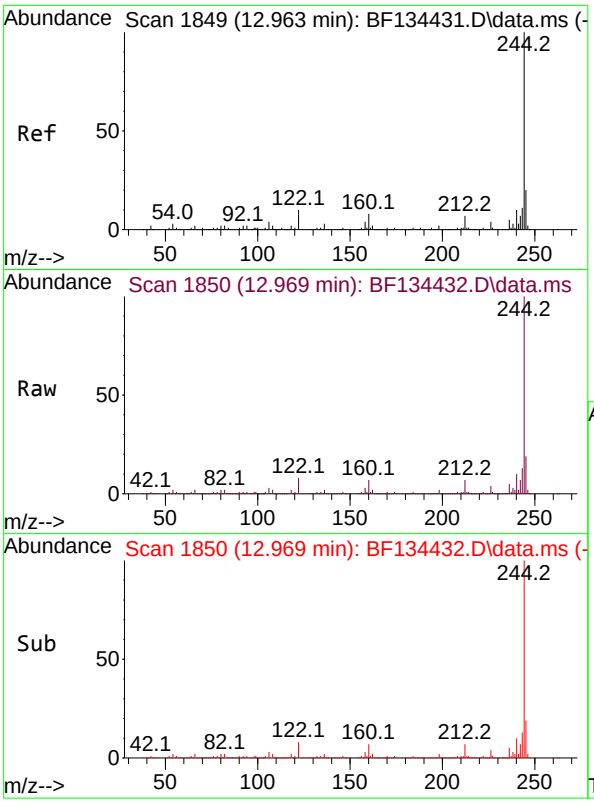


#78
Pyrene
Concen: 50.497 ng
RT: 12.827 min Scan# 1826
Delta R.T. 0.006 min
Lab File: BF134432.D
Acq: 24 Jul 2023 16:36

Tgt Ion:202 Resp: 671256

Ion	Ratio	Lower	Upper
202	100		
200	19.9	15.8	23.8
203	16.8	13.5	20.3

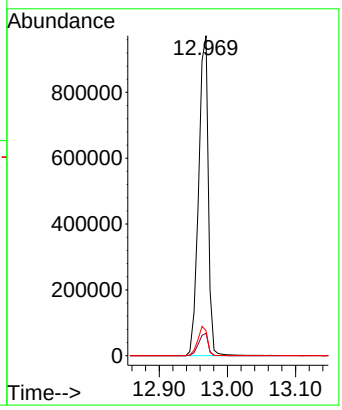




#79
Terphenyl-d14
Concen: 99.852 ng
RT: 12.969 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF134432.D
Acq: 24 Jul 2023 16:36

Tgt Ion:244 Resp: 95627

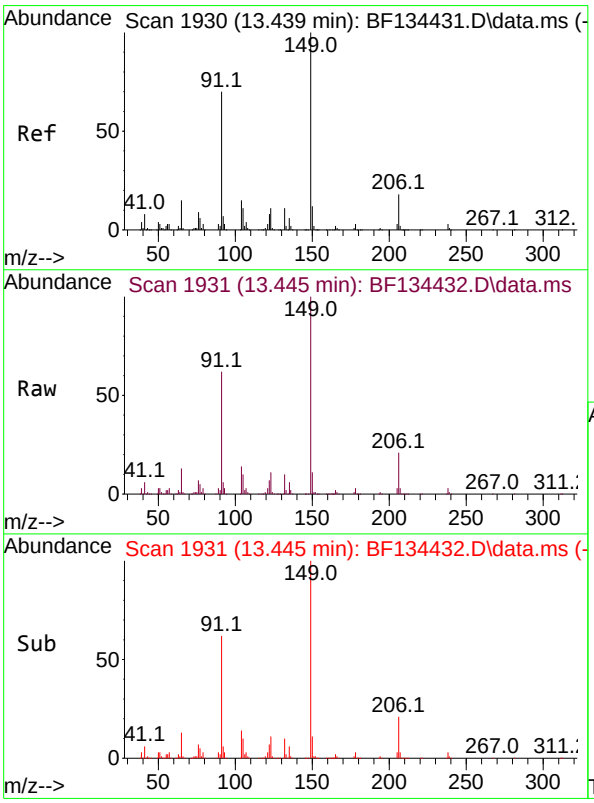
Ion	Ratio	Lower	Upper
244	100		
212	7.0	5.6	8.4
122	7.8	8.0	12.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

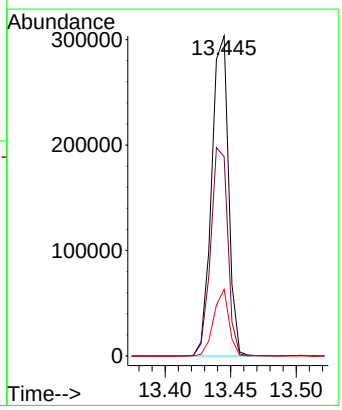
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

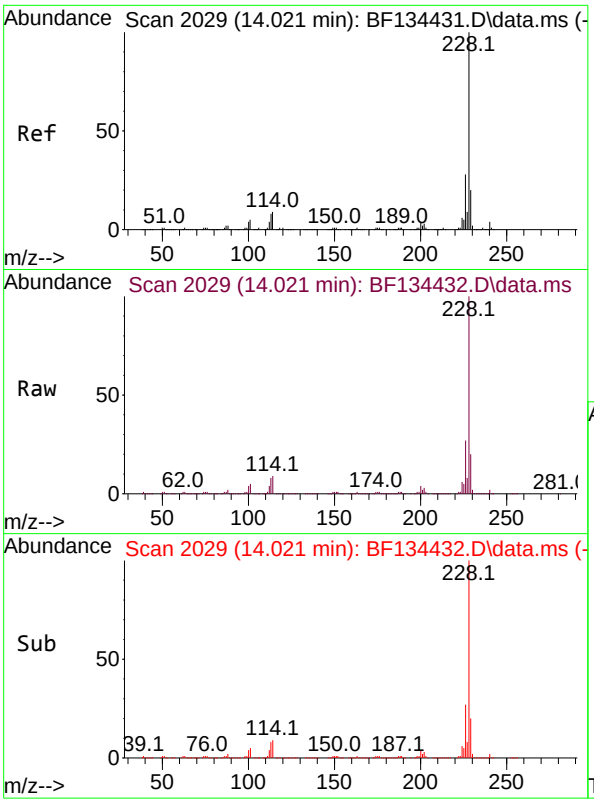


#80
Butylbenzylphthalate
Concen: 51.155 ng
RT: 13.445 min Scan# 1931
Delta R.T. 0.006 min
Lab File: BF134432.D
Acq: 24 Jul 2023 16:36

Tgt Ion:149 Resp: 272386

Ion	Ratio	Lower	Upper
149	100		
91	62.3	55.8	83.6
206	20.8	14.6	21.8

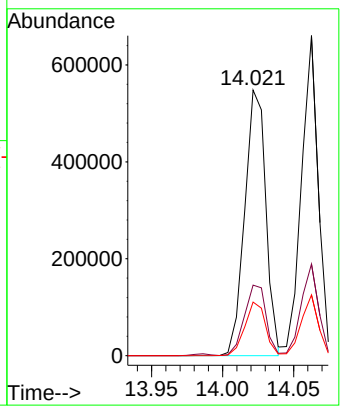




#81
Benzo(a)anthracene
Concen: 48.768 ng
RT: 14.021 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF134432.D
Acq: 24 Jul 2023 16:36

Tgt Ion:228 Resp: 56882

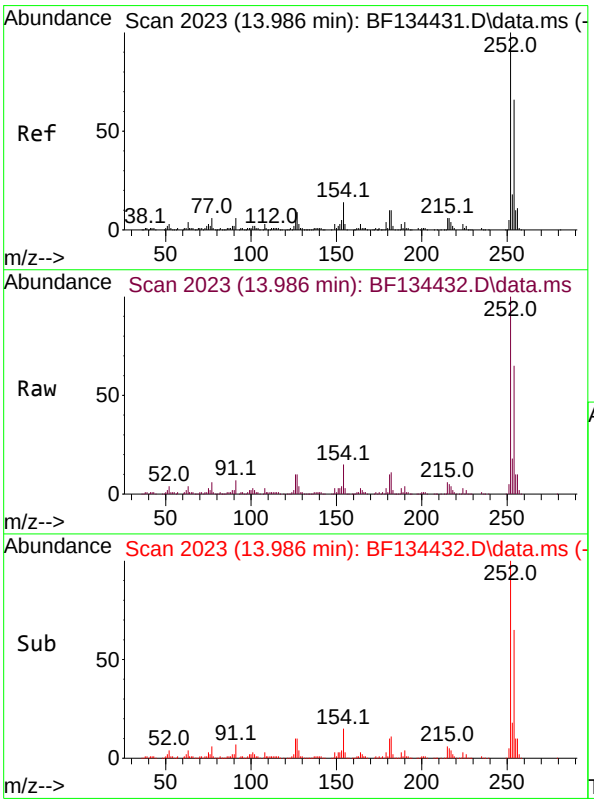
Ion	Ratio	Lower	Upper
228	100		
226	26.5	22.3	33.5
229	20.2	15.8	23.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

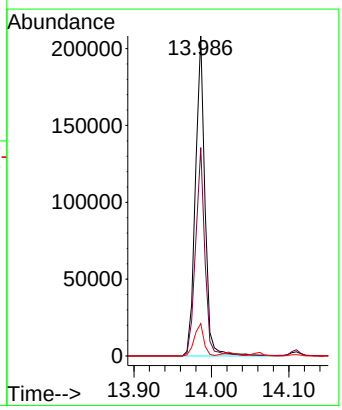
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

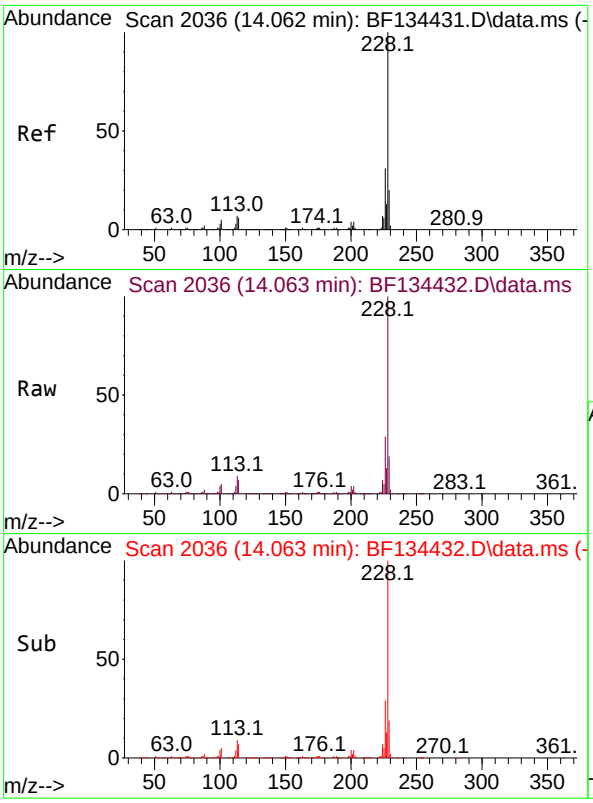


#82
3,3'-Dichlorobenzidine
Concen: 48.139 ng
RT: 13.986 min Scan# 2023
Delta R.T. 0.000 min
Lab File: BF134432.D
Acq: 24 Jul 2023 16:36

Tgt Ion:252 Resp: 177840

Ion	Ratio	Lower	Upper
252	100		
254	65.1	52.7	79.1
126	10.1	7.2	10.8

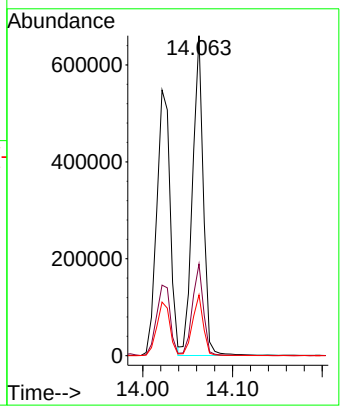




#83
Chrysene
Concen: 49.282 ng
RT: 14.063 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF134432.D
Acq: 24 Jul 2023 16:36

Tgt Ion:228 Resp: 54979

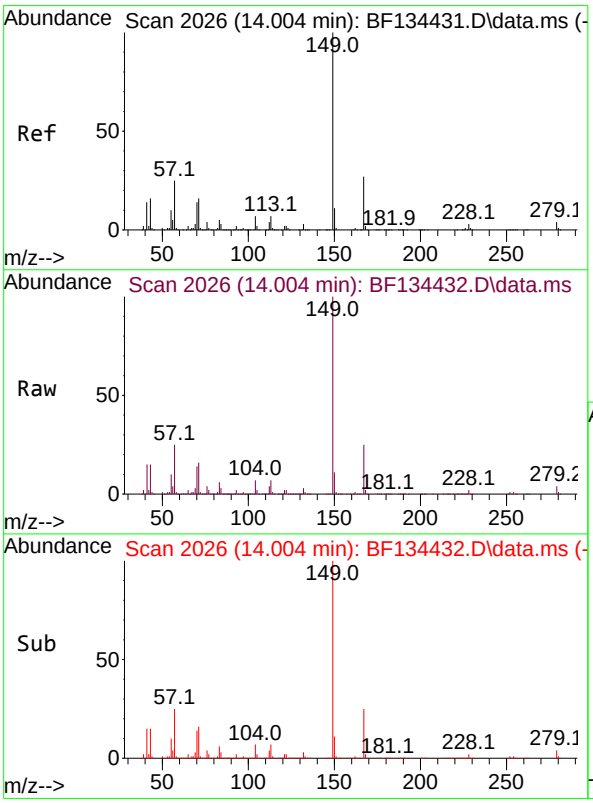
Ion	Ratio	Lower	Upper
228	100		
226	28.6	24.5	36.7
229	19.0	15.8	23.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

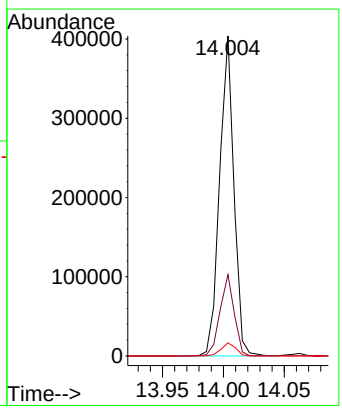
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

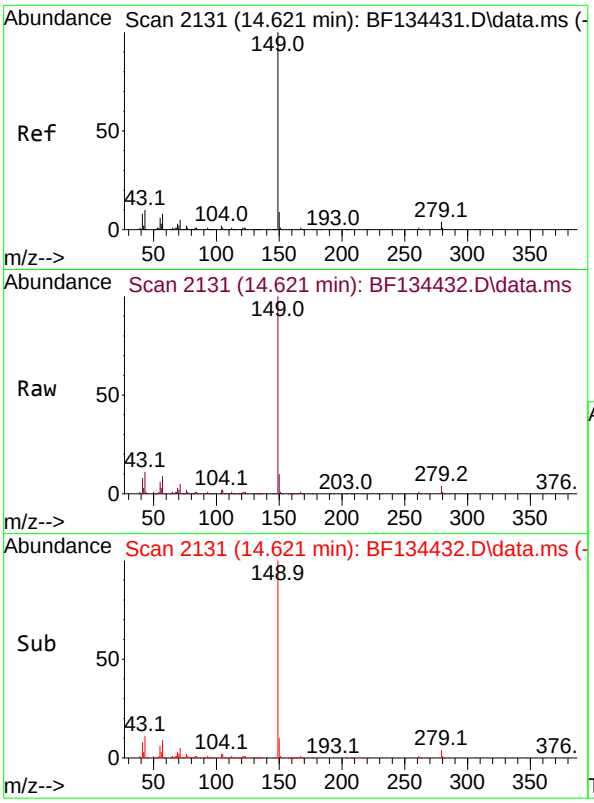


#84
Bis(2-ethylhexyl)phthalate
Concen: 51.251 ng
RT: 14.004 min Scan# 2026
Delta R.T. 0.000 min
Lab File: BF134432.D
Acq: 24 Jul 2023 16:36

Tgt Ion:149 Resp: 331537

Ion	Ratio	Lower	Upper
149	100		
167	25.4	21.6	32.4
279	4.1	3.5	5.3

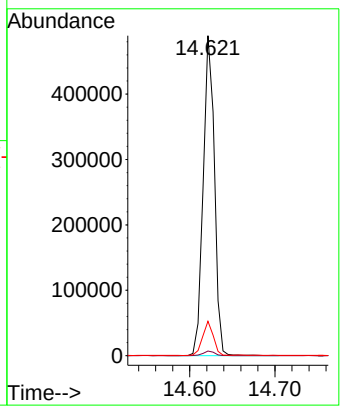




#85
Di-n-octyl phthalate
Concen: 49.859 ng
RT: 14.621 min Scan# 21
Delta R.T. 0.000 min
Lab File: BF134432.D
Acq: 24 Jul 2023 16:36

Tgt Ion:149 Resp: 44821

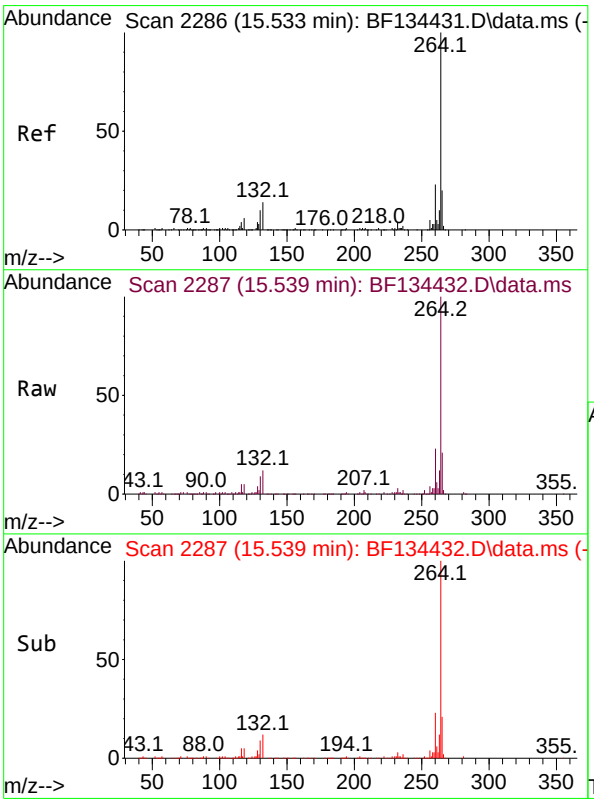
Ion	Ratio	Lower	Upper
149	100		
167	1.5	1.2	1.8
43	10.2	8.1	12.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

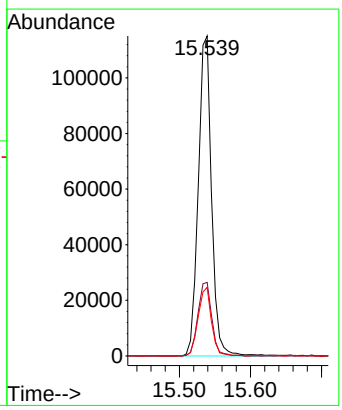
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

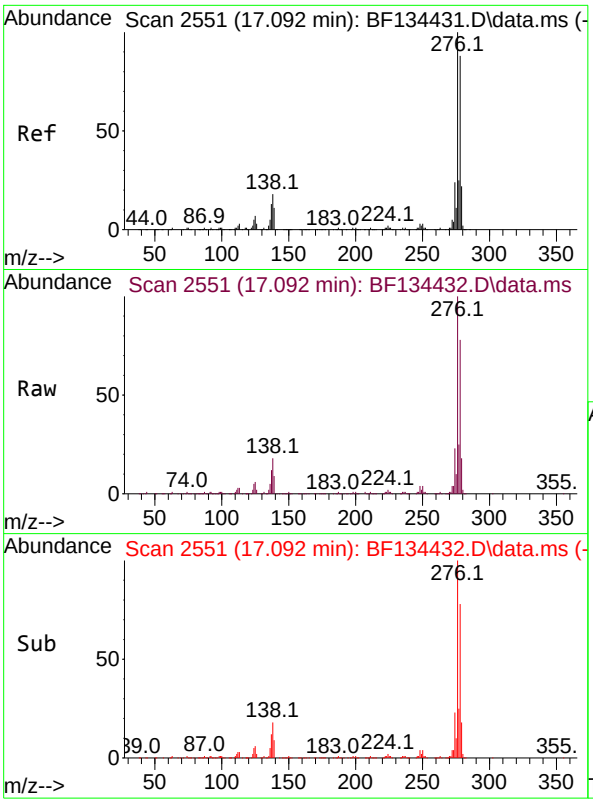


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.539 min Scan# 2287
Delta R.T. 0.006 min
Lab File: BF134432.D
Acq: 24 Jul 2023 16:36

Tgt Ion:264 Resp: 149772

Ion	Ratio	Lower	Upper
264	100		
260	23.0	18.4	27.6
265	21.4	15.8	23.8

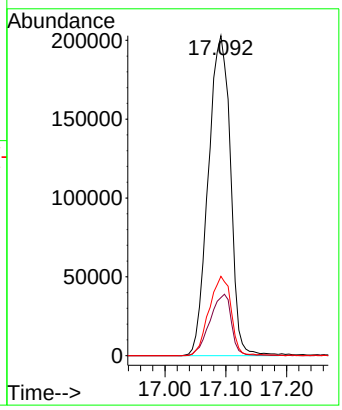




#87
Indeno(1,2,3-cd)pyrene
Concen: 52.429 ng
RT: 17.092 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF134432.D
Acq: 24 Jul 2023 16:36

Tgt Ion:276 Resp: 51300

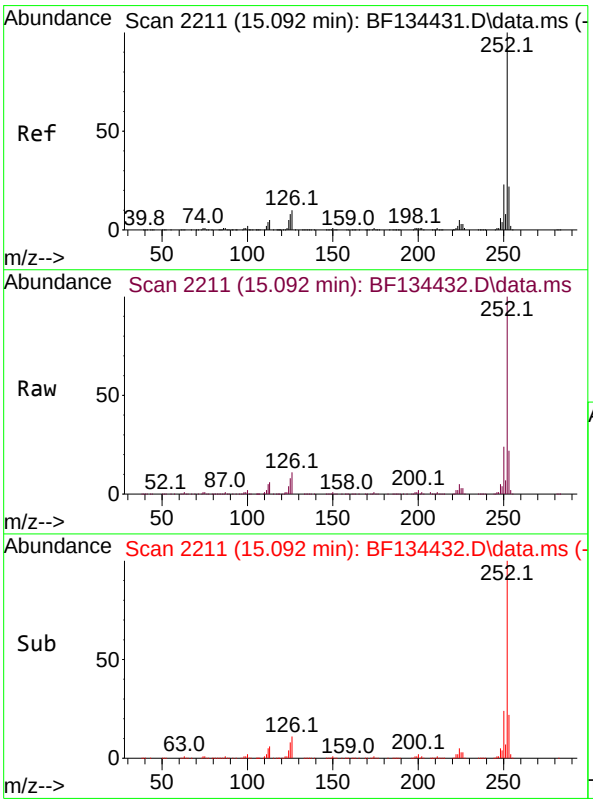
Ion	Ratio	Lower	Upper
276	100		
138	18.8	14.2	21.4
277	24.8	19.9	29.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

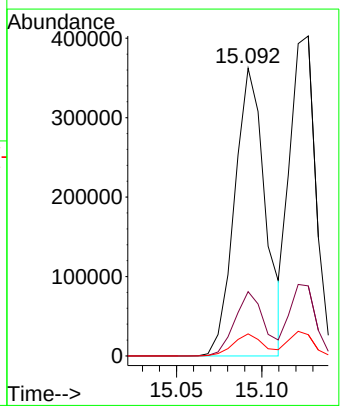
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

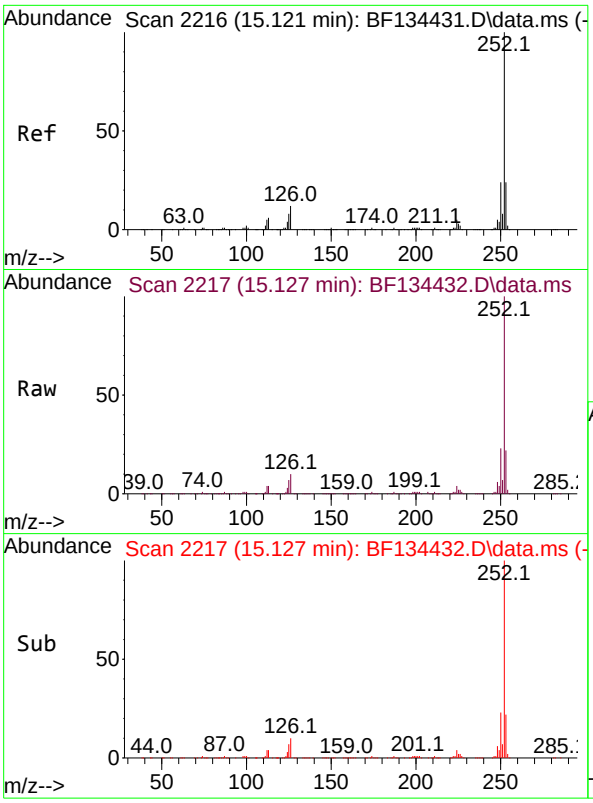


#88
Benzo(b)fluoranthene
Concen: 48.522 ng
RT: 15.092 min Scan# 2211
Delta R.T. 0.000 min
Lab File: BF134432.D
Acq: 24 Jul 2023 16:36

Tgt Ion:252 Resp: 454641

Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.3	25.9
125	7.7	6.0	9.0

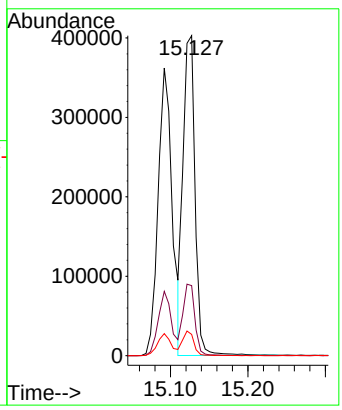




#89
Benzo(k)fluoranthene
Concen: 47.040 ng
RT: 15.127 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF134432.D
Acq: 24 Jul 2023 16:36

Tgt Ion:252 Resp: 43355

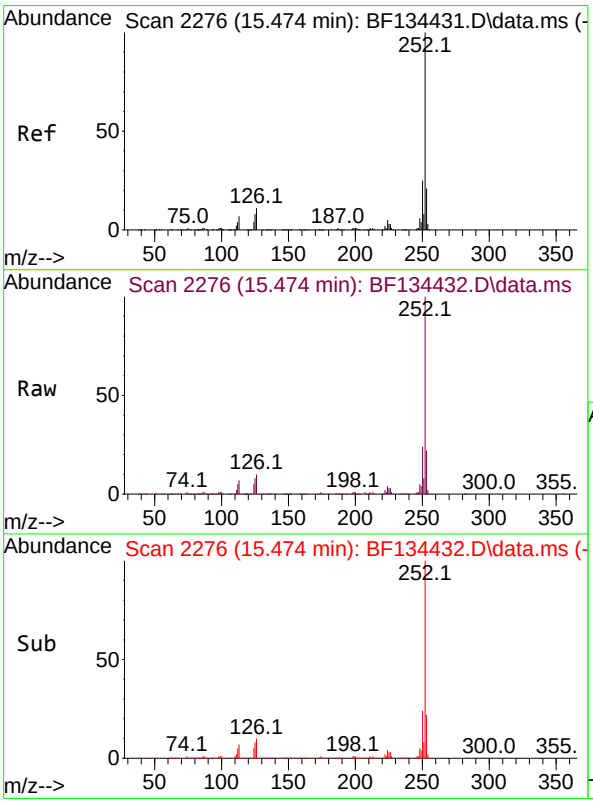
Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.9	26.9
125	6.7	6.3	9.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

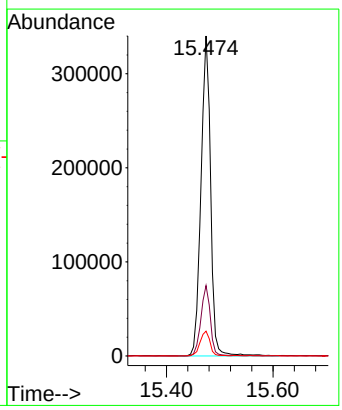
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

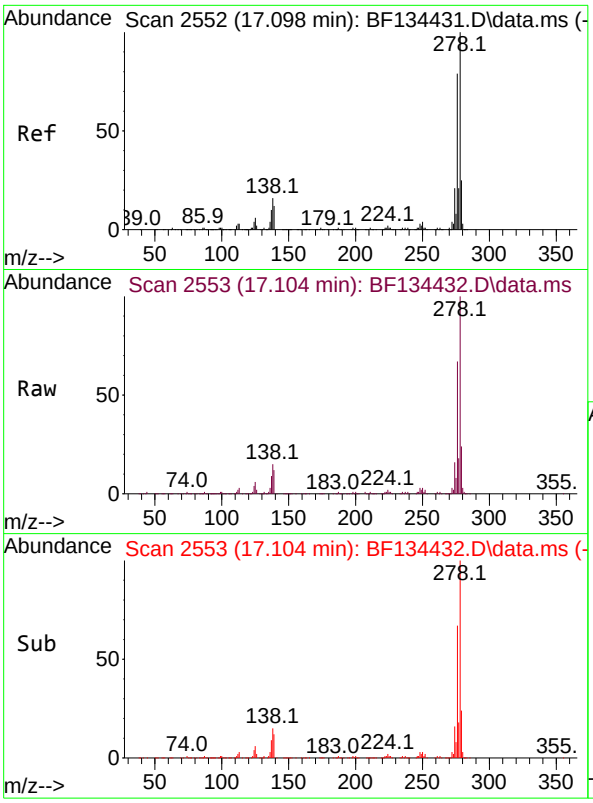


#90
Benzo(a)pyrene
Concen: 49.114 ng
RT: 15.474 min Scan# 2276
Delta R.T. 0.000 min
Lab File: BF134432.D
Acq: 24 Jul 2023 16:36

Tgt Ion:252 Resp: 425361

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.0	25.4
125	7.8	6.2	9.4

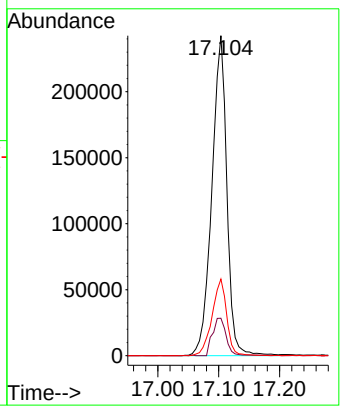




#91
Dibenzo(a,h)anthracene
Concen: 52.539 ng
RT: 17.104 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF134432.D
Acq: 24 Jul 2023 16:36

Tgt Ion:278 Resp: 41516

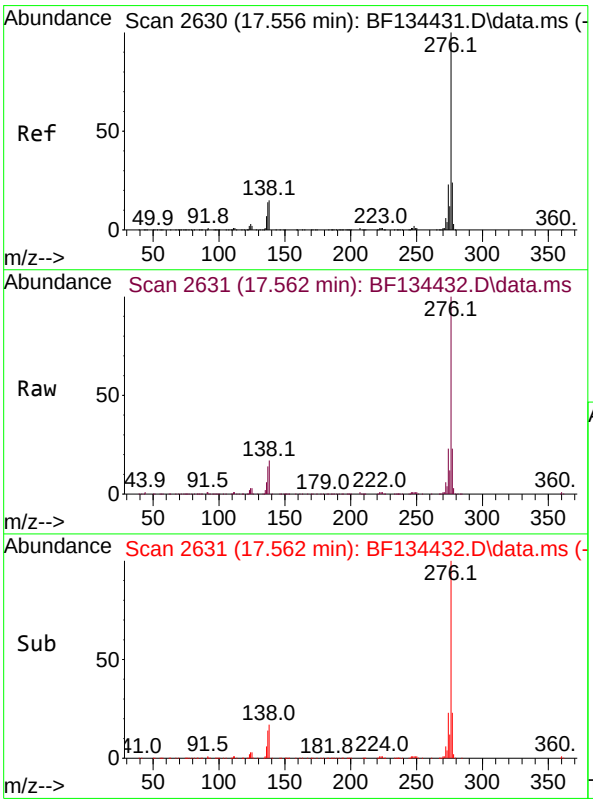
Ion	Ratio	Lower	Upper
278	100		
139	11.7	10.0	15.0
279	24.0	19.7	29.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

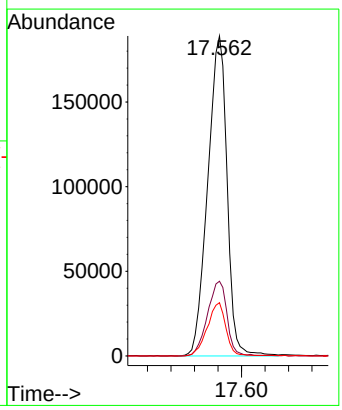
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023



#92
Benzo(g,h,i)perylene
Concen: 53.158 ng
RT: 17.562 min Scan# 2631
Delta R.T. 0.006 min
Lab File: BF134432.D
Acq: 24 Jul 2023 16:36

Tgt Ion:276 Resp: 431304

Ion	Ratio	Lower	Upper
276	100		
277	23.3	19.0	28.6
138	16.6	12.2	18.2



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF072423\
Data File : BF134433.D
Acq On : 24 Jul 2023 17:10
Operator : CG\JU
Sample : SSTDICC060
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 25 01:39:16 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF072423.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 25 01:30:14 2023
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.834	152	58238	20.000	ng	0.00
21) Naphthalene-d8	8.116	136	204401	20.000	ng	# 0.00
39) Acenaphthene-d10	9.875	164	100211	20.000	ng	0.00
64) Phenanthrene-d10	11.369	188	208789	20.000	ng	0.00
76) Chrysene-d12	14.033	240	154977	20.000	ng	0.00
86) Perylene-d12	15.533	264	134882	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.469	112	426811	121.085	ng	0.00
7) Phenol-d6	6.487	99	508927	117.843	ng	0.00
23) Nitrobenzene-d5	7.404	82	492136	121.816	ng	0.00
42) 2,4,6-Tribromophenol	10.669	330	175793	123.466	ng	0.00
45) 2-Fluorobiphenyl	9.192	172	901430	118.090	ng	0.00
79) Terphenyl-d14	12.968	244	1097721	123.647	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.587	88	90922	60.812	ng	99
3) Pyridine	3.375	79	213355	63.680	ng	98
4) n-Nitrosodimethylamine	3.351	42	129164	65.124	ng	89
6) Aniline	6.510	93	300336	59.005	ng	98
8) 2-Chlorophenol	6.628	128	209801	58.752	ng	96
9) Benzaldehyde	6.392	77	120627	52.157	ng	98
10) Phenol	6.498	94	267854	59.611	ng	92
11) bis(2-Chloroethyl)ether	6.581	93	190201	60.635	ng	95
12) 1,3-Dichlorobenzene	6.775	146	228949	59.622	ng	98
13) 1,4-Dichlorobenzene	6.851	146	231071	58.473	ng	97
14) 1,2-Dichlorobenzene	7.004	146	218578	58.883	ng	99
15) Benzyl Alcohol	6.986	79	203191	61.538	ng	98
16) 2,2'-oxybis(1-Chloropr...	7.110	45	275850	59.715	ng	96
17) 2-Methylphenol	7.098	107	185620	58.284	ng	96
18) Hexachloroethane	7.339	117	89360	58.859	ng	97
19) n-Nitroso-di-n-propyla...	7.251	70	154736	57.555	ng	99
20) 3+4-Methylphenols	7.251	107	233625	57.295	ng	96
22) Acetophenone	7.251	105	300294	59.073	ng	97
24) Nitrobenzene	7.428	77	245857	61.192	ng	98
25) Isophorone	7.657	82	406179	60.326	ng	97
26) 2-Nitrophenol	7.733	139	113362	61.345	ng	92
27) 2,4-Dimethylphenol	7.775	122	172157	59.034	ng	96
28) bis(2-Chloroethoxy)met...	7.869	93	227481	60.698	ng	99
29) 2,4-Dichlorophenol	7.981	162	175171	60.088	ng	97
30) 1,2,4-Trichlorobenzene	8.057	180	187420	59.601	ng	96
31) Naphthalene	8.139	128	610614	60.025	ng	99
32) Benzoic acid	7.916	122	129358m	67.174	ng	
33) 4-Chloroaniline	8.192	127	247161	58.779	ng	95
34) Hexachlorobutadiene	8.245	225	125227	59.445	ng	96
35) Caprolactam	8.581	113	54842m	61.642	ng	
36) 4-Chloro-3-methylphenol	8.680	107	203880	60.611	ng	97
37) 2-Methylnaphthalene	8.828	142	417896	59.123	ng	98
38) 1-Methylnaphthalene	8.928	142	387757	59.135	ng	98
40) 1,2,4,5-Tetrachloroben...	8.998	216	195905	61.689	ng	99
41) Hexachlorocyclopentadiene	8.975	237	57920	60.445	ng	93
43) 2,4,6-Trichlorophenol	9.110	196	123155	60.451	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF072423\
Data File : BF134433.D
Acq On : 24 Jul 2023 17:10
Operator : CG\JU
Sample : SSTDICC060
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

Quant Time: Jul 25 01:39:16 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF072423.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 25 01:30:14 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.157	196	146820	61.855	ng		95
46) 1,1'-Biphenyl	9.298	154	493637	59.767	ng		98
47) 2-Chloronaphthalene	9.322	162	367145	60.297	ng		98
48) 2-Nitroaniline	9.428	65	138375	63.101	ng		91
49) Acenaphthylene	9.739	152	623478	60.610	ng		99
50) Dimethylphthalate	9.598	163	454198	61.141	ng		99
51) 2,6-Dinitrotoluene	9.669	165	100818	61.851	ng		93
52) Acenaphthene	9.910	154	365699	60.181	ng		100
53) 3-Nitroaniline	9.839	138	113136	60.537	ng		85
54) 2,4-Dinitrophenol	9.951	184	50184	60.434	ng	#	85
55) Dibenzofuran	10.080	168	562820	60.178	ng		99
56) 4-Nitrophenol	10.010	139	66644	66.870	ng		92
57) 2,4-Dinitrotoluene	10.080	165	136710	62.443	ng	#	95
58) Fluorene	10.427	166	454878	60.288	ng		99
59) 2,3,4,6-Tetrachlorophenol	10.204	232	113146m	61.809	ng		
60) Diethylphthalate	10.298	149	470143	61.128	ng		98
61) 4-Chlorophenyl-phenyle...	10.416	204	215354	59.750	ng		94
62) 4-Nitroaniline	10.463	138	119926m	62.570	ng		
63) Azobenzene	10.580	77	433606	61.249	ng		97
65) 4,6-Dinitro-2-methylph...	10.492	198	76818	64.140	ng		93
66) n-Nitrosodiphenylamine	10.539	169	392021	59.015	ng		99
67) 4-Bromophenyl-phenylether	10.910	248	135842	59.382	ng		96
68) Hexachlorobenzene	10.980	284	151755	58.911	ng	#	91
69) Atrazine	11.069	200	104181	56.253	ng		98
70) Pentachlorophenol	11.174	266	70689	65.388	ng		98
71) Phenanthrene	11.398	178	641980	58.849	ng		99
72) Anthracene	11.451	178	673764	59.841	ng		99
73) Carbazole	11.610	167	636850	60.066	ng		100
74) Di-n-butylphthalate	11.933	149	722560	59.368	ng		100
75) Fluoranthene	12.592	202	751451	59.106	ng		99
77) Benzidine	12.716	184	171797	51.917	ng		98
78) Pyrene	12.827	202	766031	62.165	ng		99
80) Butylbenzylphthalate	13.445	149	309438	62.690	ng		94
81) Benzo(a)anthracene	14.021	228	653508	60.440	ng		98
82) 3,3'-Dichlorobenzidine	13.986	252	196370	57.341	ng		98
83) Chrysene	14.062	228	605382	58.537	ng		100
84) Bis(2-ethylhexyl)phtha...	14.004	149	365894	61.016	ng		100
85) Di-n-octyl phthalate	14.621	149	504866	60.583	ng		100
87) Indeno(1,2,3-cd)pyrene	17.092	276	603041	68.435	ng		99
88) Benzo(b)fluoranthene	15.092	252	515888	61.137	ng		99
89) Benzo(k)fluoranthene	15.127	252	491907	59.262	ng		97
90) Benzo(a)pyrene	15.474	252	473981	60.769	ng		98
91) Dibenzo(a,h)anthracene	17.103	278	490124	68.873	ng		99
92) Benzo(g,h,i)perylene	17.568	276	507906	69.509	ng		98

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

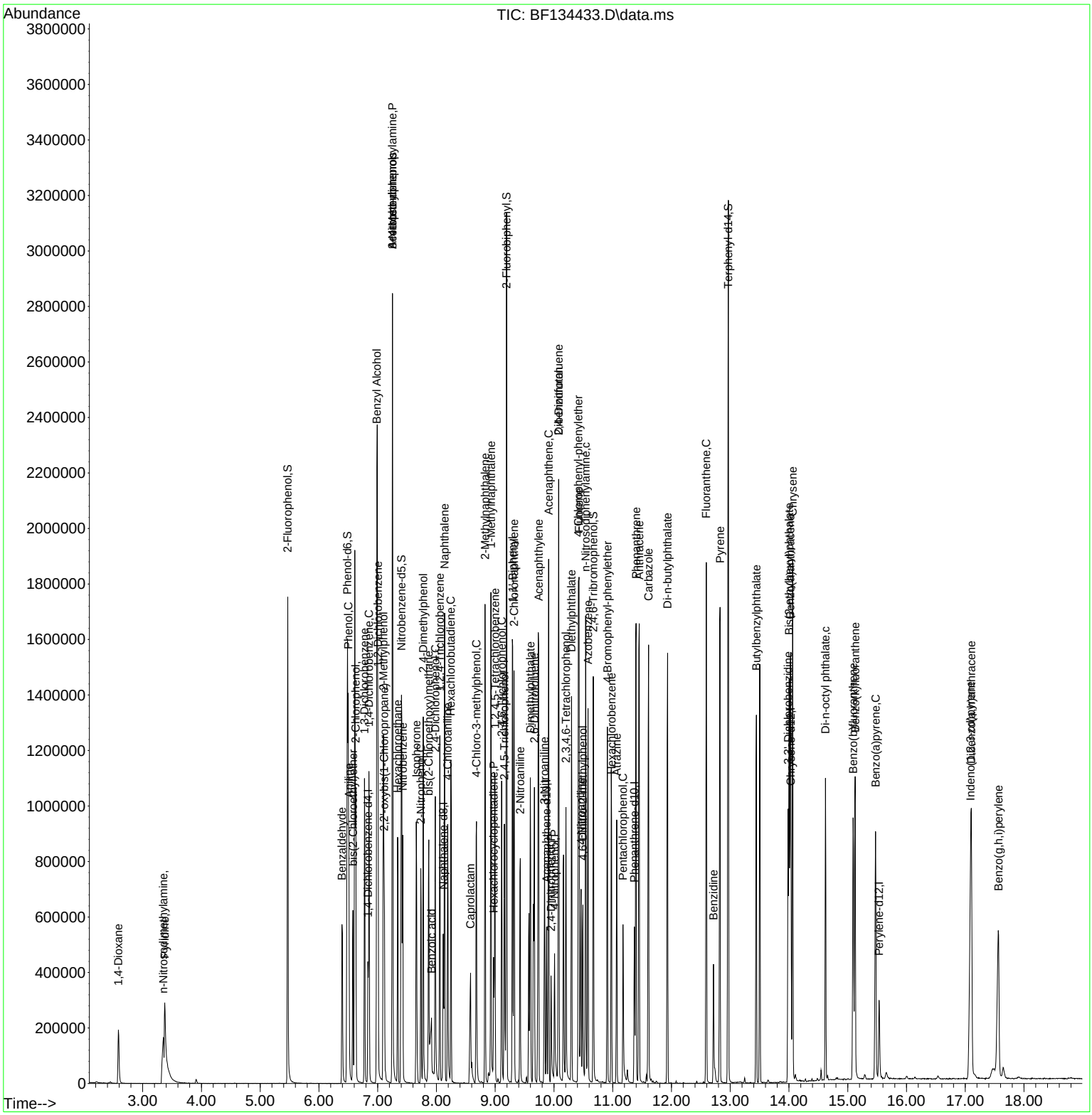
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF072423\
Data File : BF134433.D
Acq On : 24 Jul 2023 17:10
Operator : CG\JU
Sample : SSTDICC060
Misc :
ALS Vial : 9 Sample Multiplier: 1

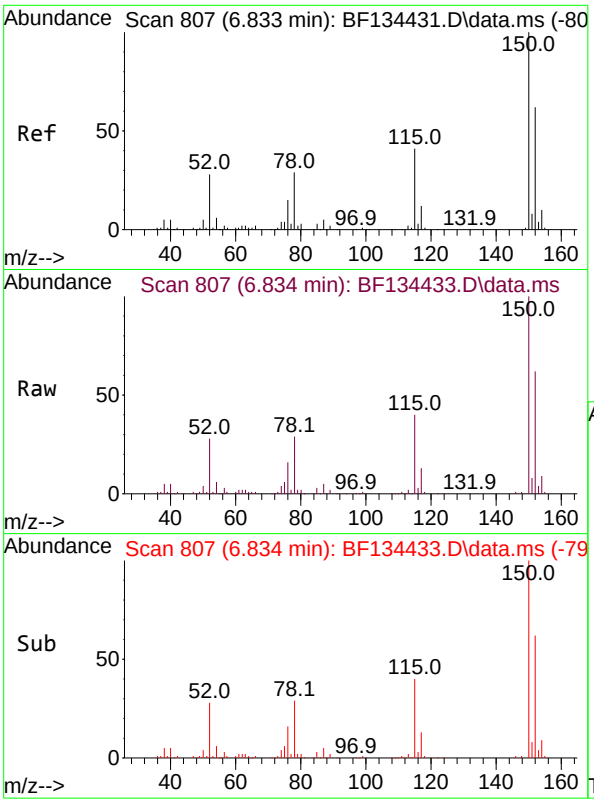
Quant Time: Jul 25 01:39:16 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF072423.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 25 01:30:14 2023
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

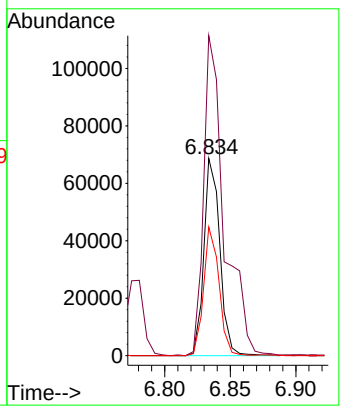




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.834 min Scan# 8
Delta R.T. 0.001 min
Lab File: BF134433.D
Acq: 24 Jul 2023 17:10

Tgt Ion:152 Resp: 5823

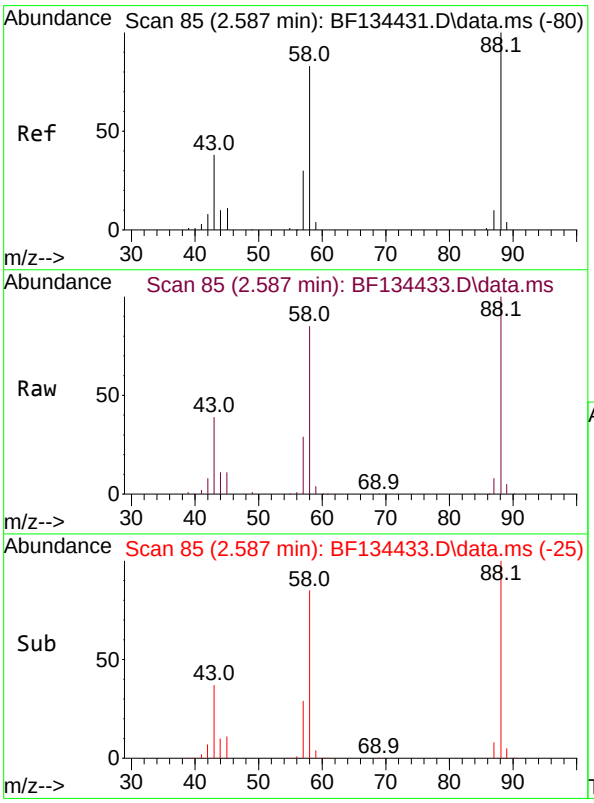
Ion	Ratio	Lower	Upper
152	100		
150	162.3	128.3	192.5
115	65.2	52.4	78.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

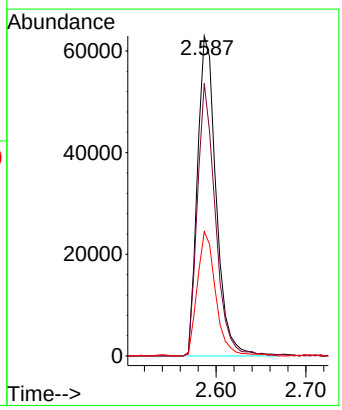
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

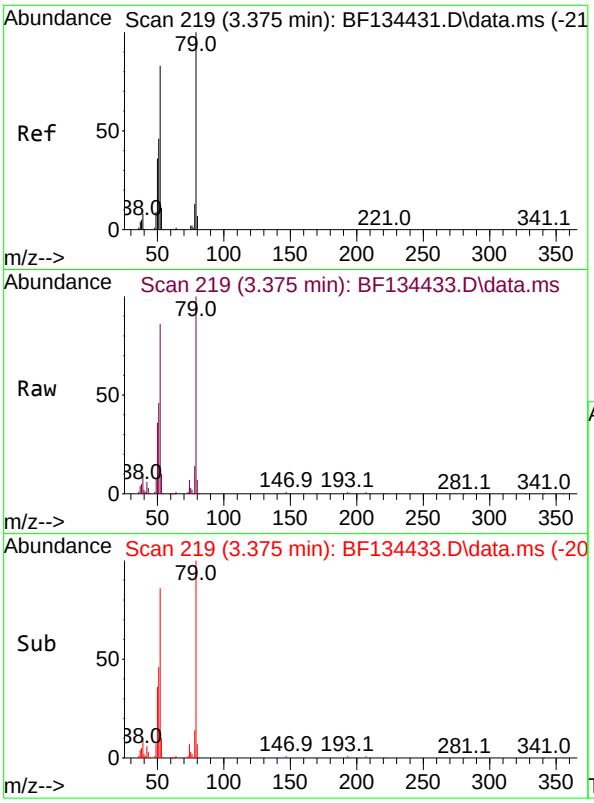


#2
1,4-Dioxane
Concen: 60.812 ng
RT: 2.587 min Scan# 85
Delta R.T. 0.000 min
Lab File: BF134433.D
Acq: 24 Jul 2023 17:10

Tgt Ion: 88 Resp: 90922

Ion	Ratio	Lower	Upper
88	100		
58	82.0	65.1	97.7
43	38.3	30.3	45.5

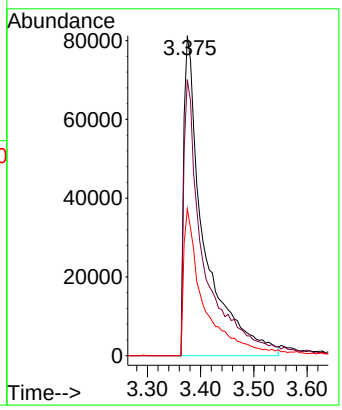




#3
Pyridine
Concen: 63.680 ng
RT: 3.375 min Scan# 21
Delta R.T. 0.000 min
Lab File: BF134433.D
Acq: 24 Jul 2023 17:10

Tgt Ion: 79 Resp: 21335

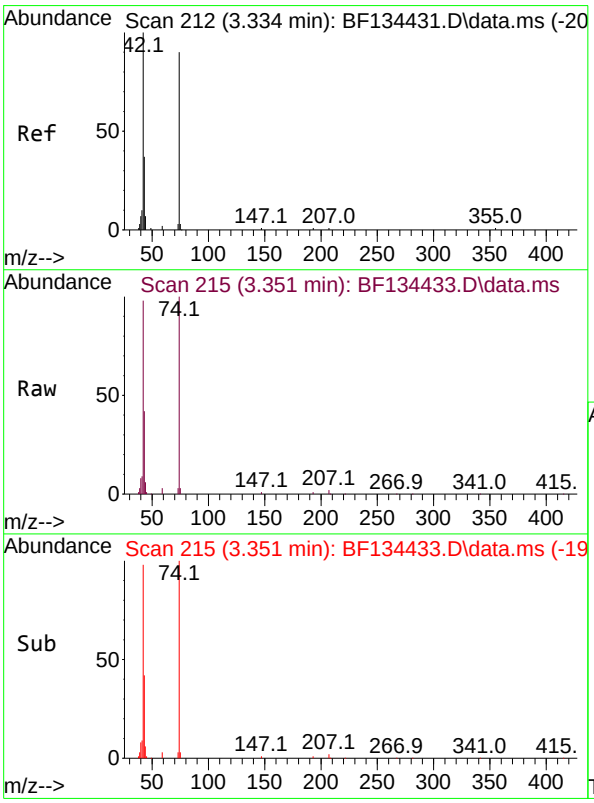
Ion	Ratio	Lower	Upper
79	100		
52	86.2	66.6	100.0
51	45.9	36.5	54.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

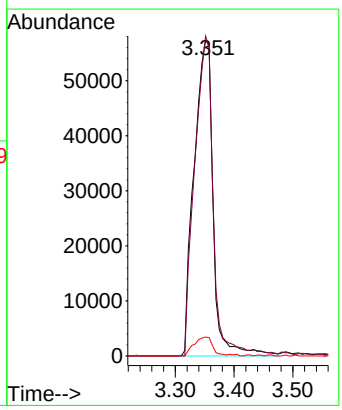
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

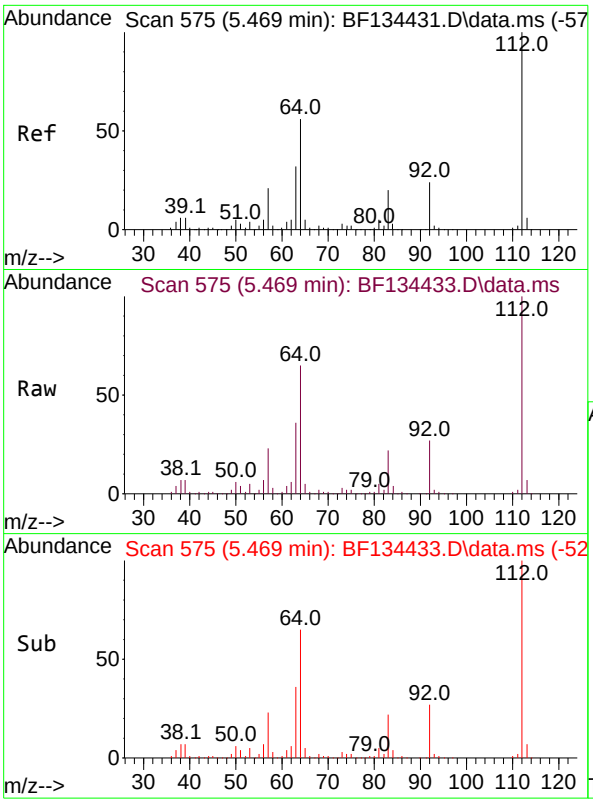


#4
n-Nitrosodimethylamine
Concen: 65.124 ng
RT: 3.351 min Scan# 215
Delta R.T. 0.018 min
Lab File: BF134433.D
Acq: 24 Jul 2023 17:10

Tgt Ion: 42 Resp: 129164

Ion	Ratio	Lower	Upper
42	100		
74	101.5	72.2	108.4
44	6.0	5.4	8.0

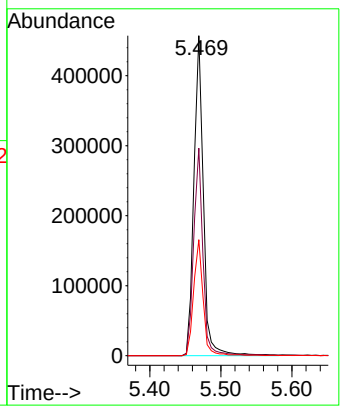




#5
2-Fluorophenol
Concen: 121.085 ng
RT: 5.469 min Scan# 5
Delta R.T. 0.000 min
Lab File: BF134433.D
Acq: 24 Jul 2023 17:10

Tgt Ion:112 Resp: 42681

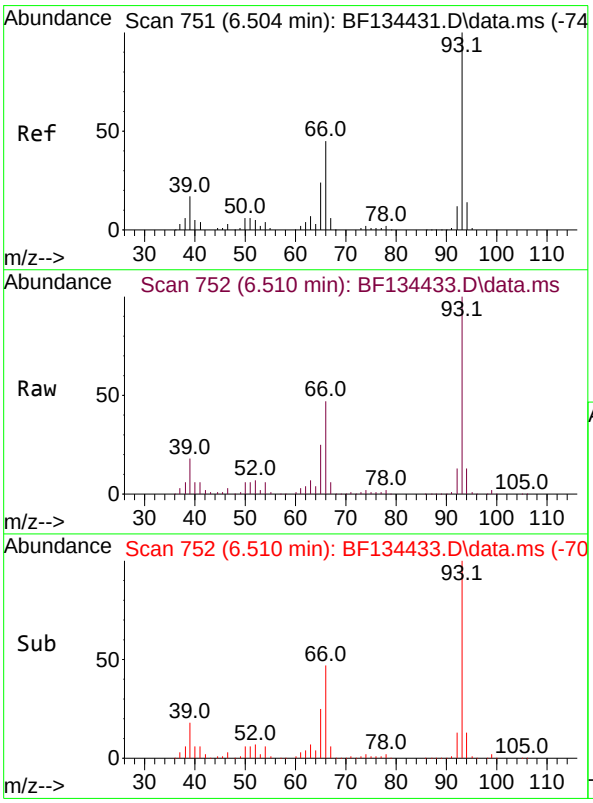
Ion	Ratio	Lower	Upper
112	100		
64	64.8	44.9	67.3
63	36.3	25.4	38.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

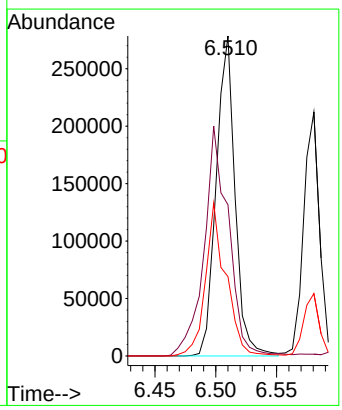
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

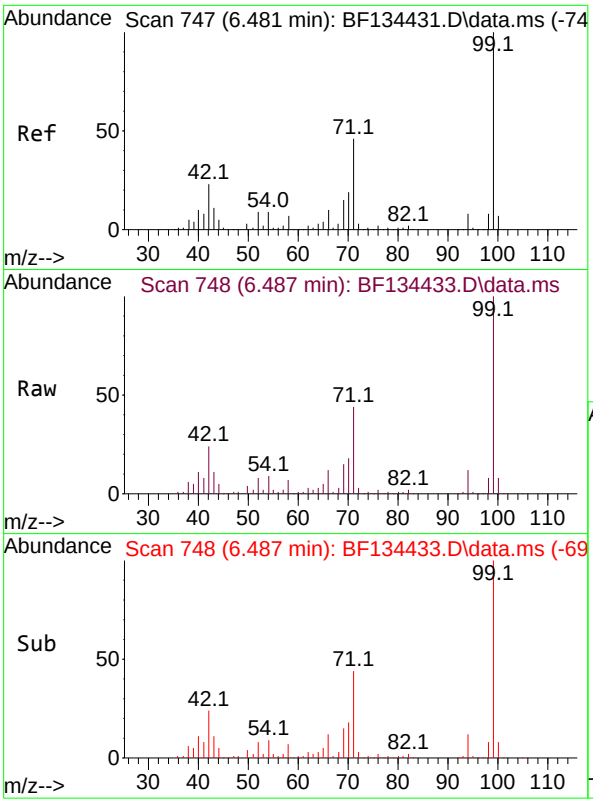


#6
Aniline
Concen: 59.005 ng
RT: 6.510 min Scan# 752
Delta R.T. 0.006 min
Lab File: BF134433.D
Acq: 24 Jul 2023 17:10

Tgt Ion: 93 Resp: 300336

Ion	Ratio	Lower	Upper
93	100		
66	47.2	36.8	55.2
65	24.8	19.4	29.0

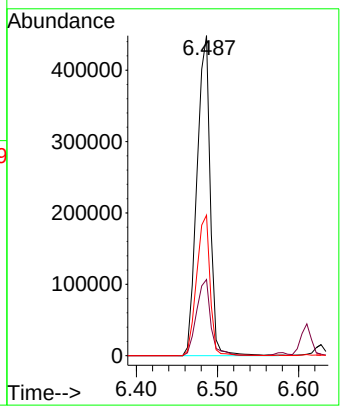




#7
Phenol-d6
Concen: 117.843 ng
RT: 6.487 min Scan# 7
Delta R.T. 0.006 min
Lab File: BF134433.D
Acq: 24 Jul 2023 17:10

Tgt Ion: 99 Resp: 50892

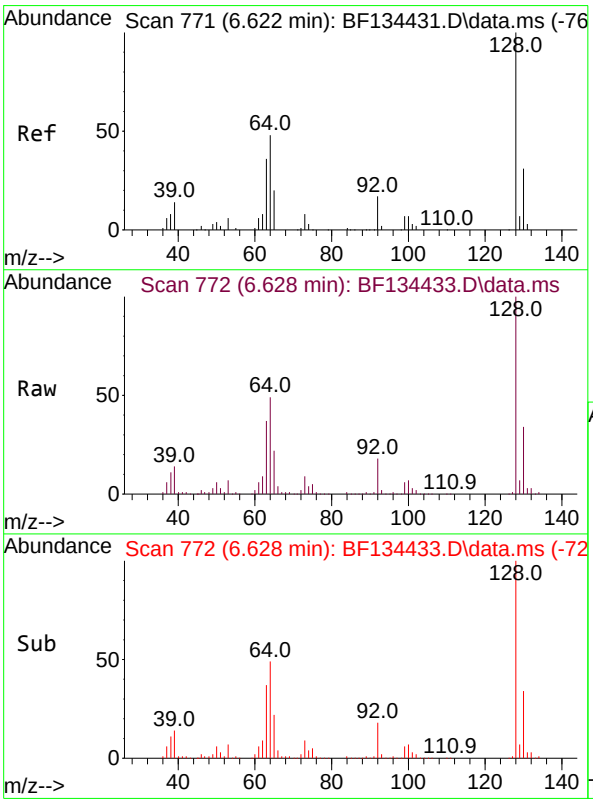
Ion	Ratio	Lower	Upper
99	100		
42	23.8	18.7	28.1
71	43.9	36.4	54.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

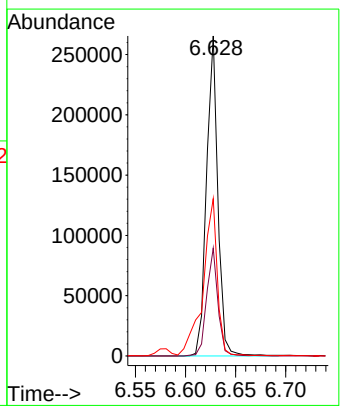
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

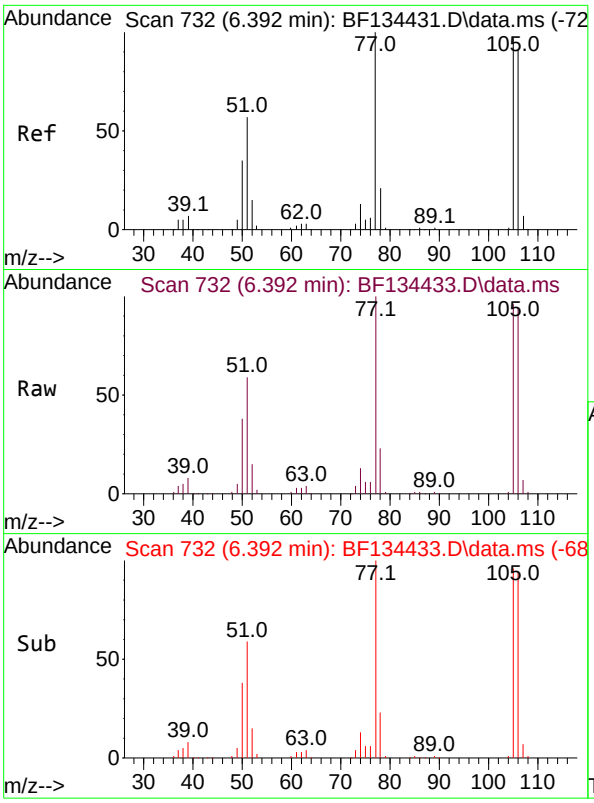


#8
2-Chlorophenol
Concen: 58.752 ng
RT: 6.628 min Scan# 772
Delta R.T. 0.006 min
Lab File: BF134433.D
Acq: 24 Jul 2023 17:10

Tgt Ion:128 Resp: 209801

Ion	Ratio	Lower	Upper
128	100		
130	33.7	11.1	51.1
64	49.2	31.9	71.9

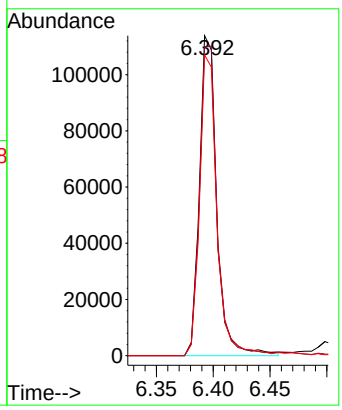




#9
Benzaldehyde
Concen: 52.157 ng
RT: 6.392 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF134433.D
Acq: 24 Jul 2023 17:10

Tgt Ion: 77 Resp: 12062

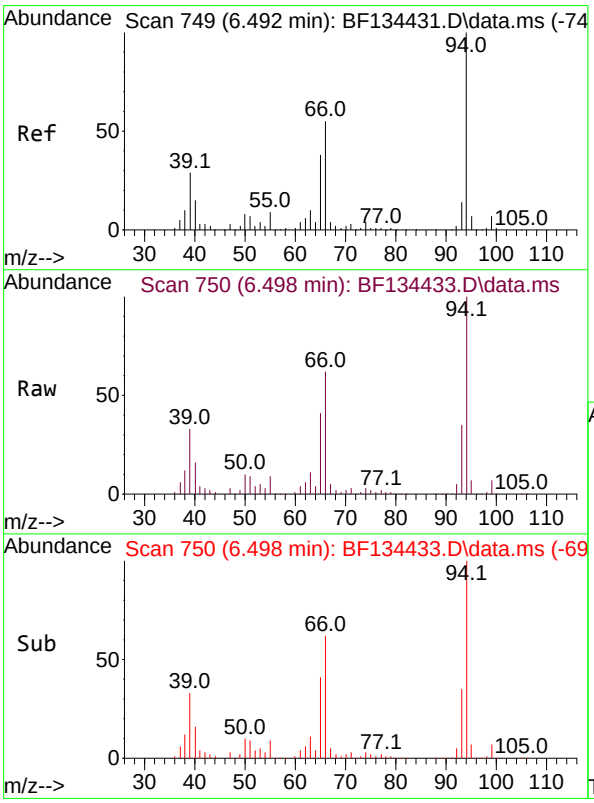
Ion	Ratio	Lower	Upper
77	100		
105	96.3	77.1	117.1
106	94.0	71.4	111.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

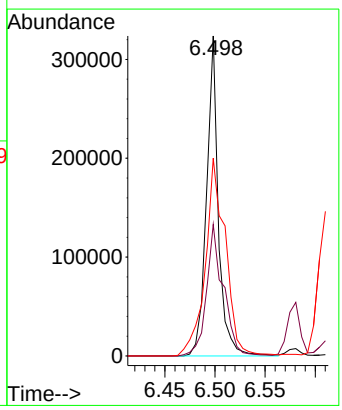
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

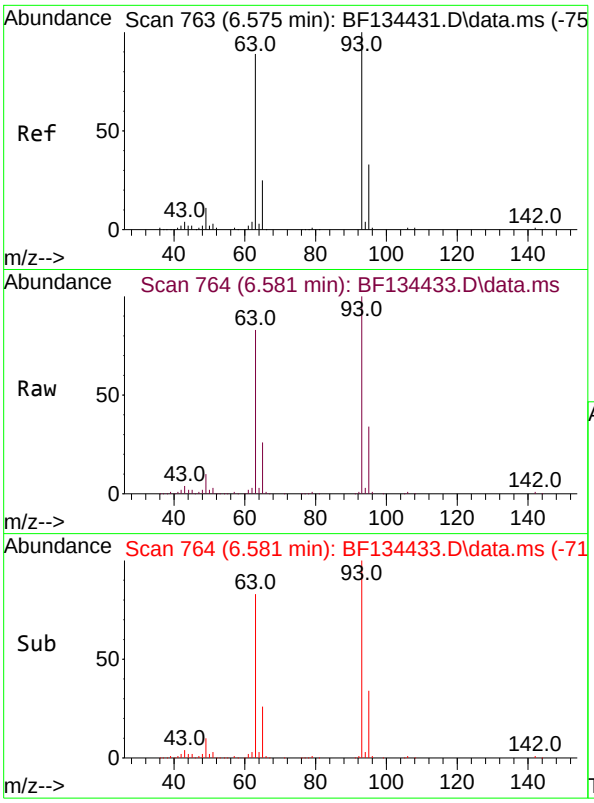


#10
Phenol
Concen: 59.611 ng
RT: 6.498 min Scan# 750
Delta R.T. 0.006 min
Lab File: BF134433.D
Acq: 24 Jul 2023 17:10

Tgt Ion: 94 Resp: 267854

Ion	Ratio	Lower	Upper
94	100		
65	41.1	17.8	57.8
66	61.8	35.2	75.2

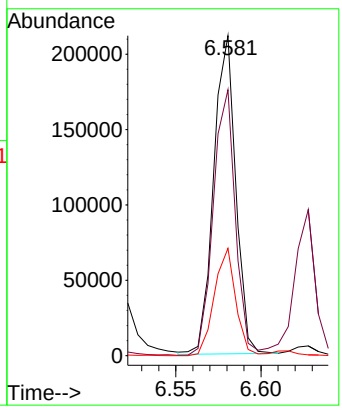




#11
bis(2-Chloroethyl)ether
Concen: 60.635 ng
RT: 6.581 min Scan# 7
Delta R.T. 0.006 min
Lab File: BF134433.D
Acq: 24 Jul 2023 17:10

Tgt Ion: 93 Resp: 19020

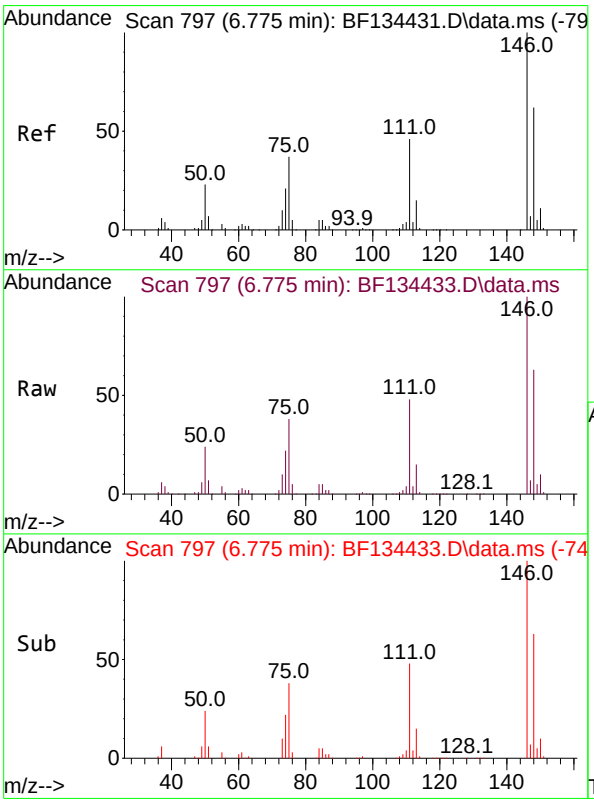
Ion	Ratio	Lower	Upper
93	100		
63	83.1	68.4	108.4
95	33.6	12.4	52.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

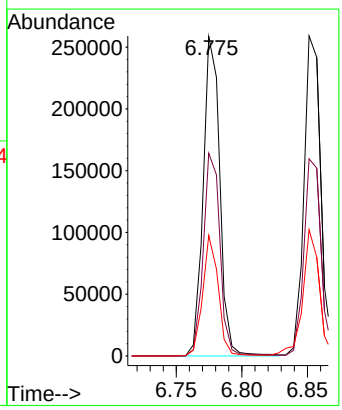
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

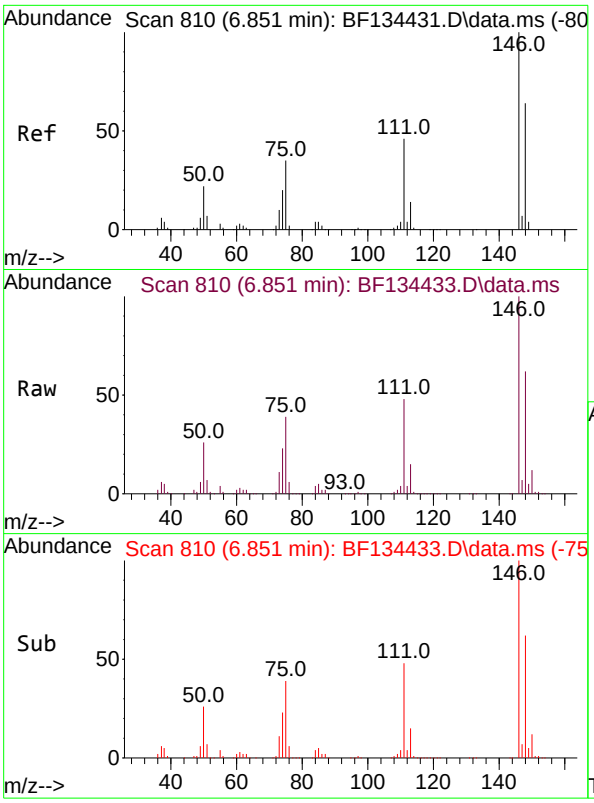


#12
1,3-Dichlorobenzene
Concen: 59.622 ng
RT: 6.775 min Scan# 797
Delta R.T. 0.000 min
Lab File: BF134433.D
Acq: 24 Jul 2023 17:10

Tgt Ion:146 Resp: 228949

Ion	Ratio	Lower	Upper
146	100		
148	63.5	49.7	74.5
75	37.7	29.5	44.3

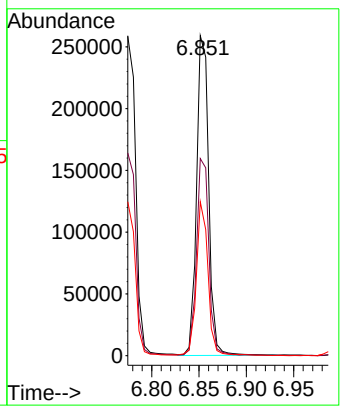




#13
1,4-Dichlorobenzene
Concen: 58.473 ng
RT: 6.851 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF134433.D
Acq: 24 Jul 2023 17:10

Tgt Ion:146 Resp: 23107

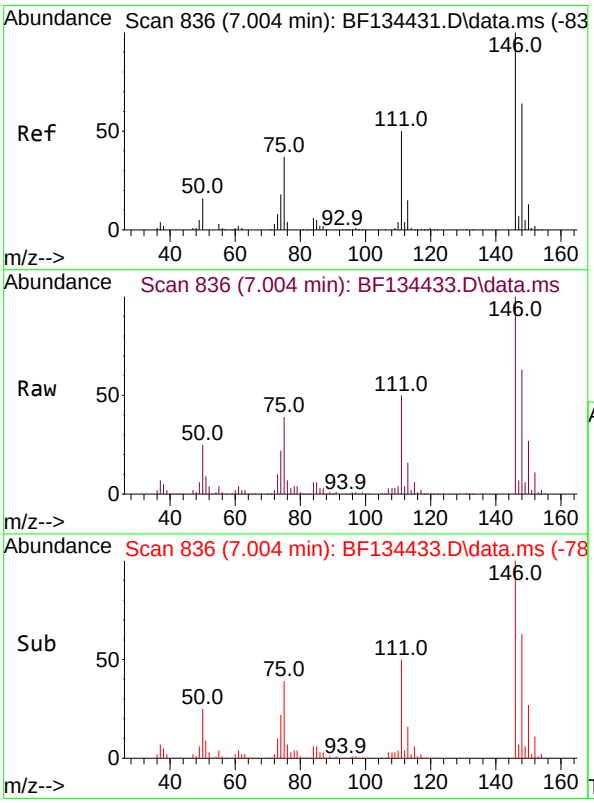
Ion	Ratio	Lower	Upper
146	100		
148	61.6	51.3	76.9
111	48.1	36.6	55.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

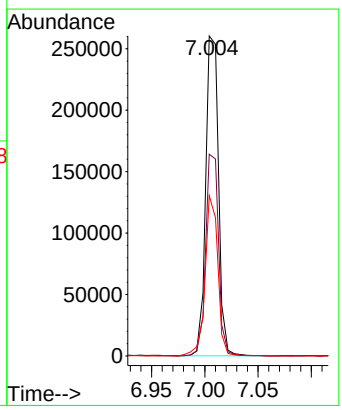
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

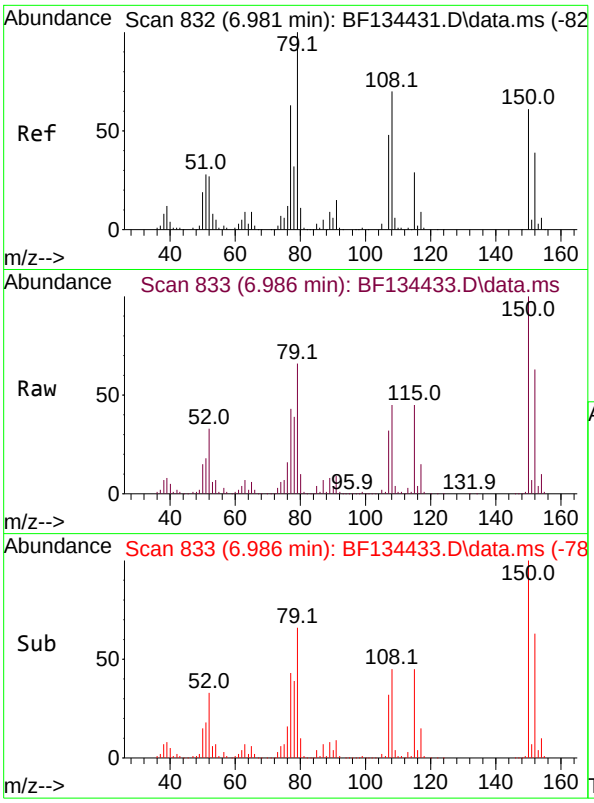


#14
1,2-Dichlorobenzene
Concen: 58.883 ng
RT: 7.004 min Scan# 836
Delta R.T. 0.000 min
Lab File: BF134433.D
Acq: 24 Jul 2023 17:10

Tgt Ion:146 Resp: 218578

Ion	Ratio	Lower	Upper
146	100		
148	63.0	51.2	76.8
111	50.1	39.9	59.9

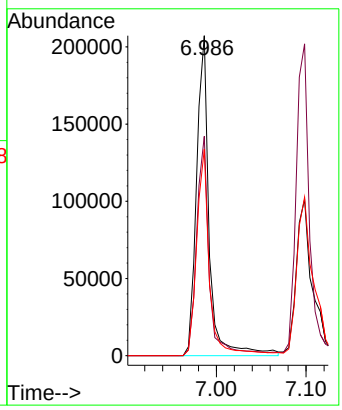




#15
Benzyl Alcohol
Concen: 61.538 ng
RT: 6.986 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF134433.D
Acq: 24 Jul 2023 17:10

Tgt Ion: 79 Resp: 20319

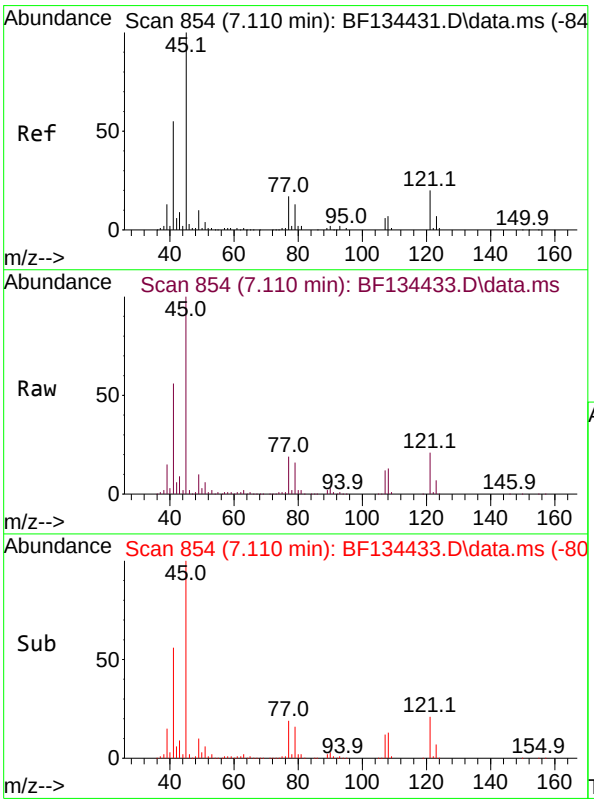
Ion	Ratio	Lower	Upper
79	100		
108	68.6	56.3	84.5
77	64.5	50.6	76.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

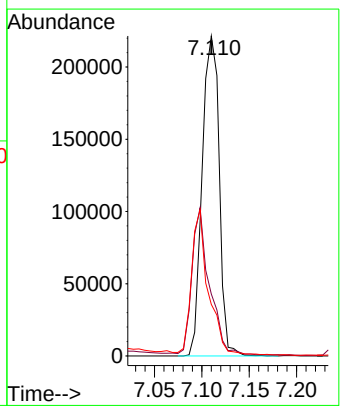
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

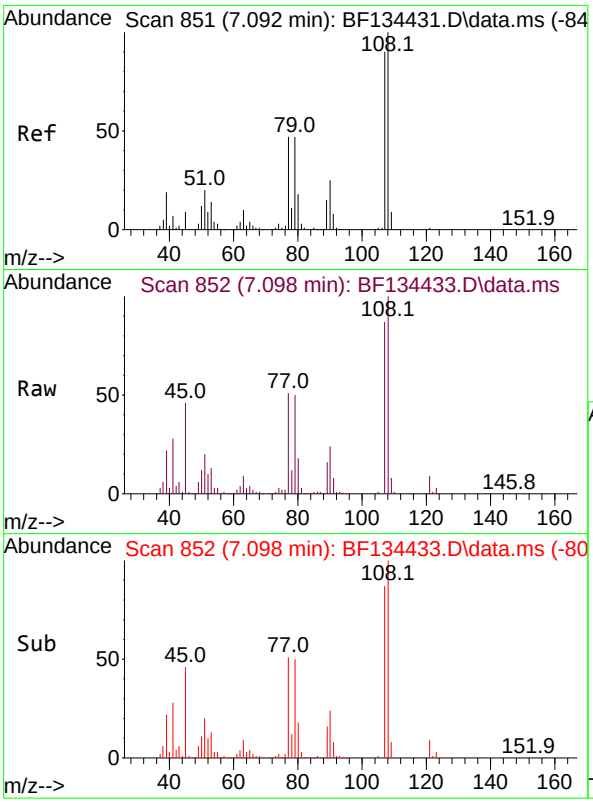


#16
2,2'-oxybis(1-Chloropropane)
Concen: 59.715 ng
RT: 7.110 min Scan# 854
Delta R.T. 0.000 min
Lab File: BF134433.D
Acq: 24 Jul 2023 17:10

Tgt Ion: 45 Resp: 275850

Ion	Ratio	Lower	Upper
45	100		
77	19.3	0.0	37.8
79	16.1	0.0	34.5

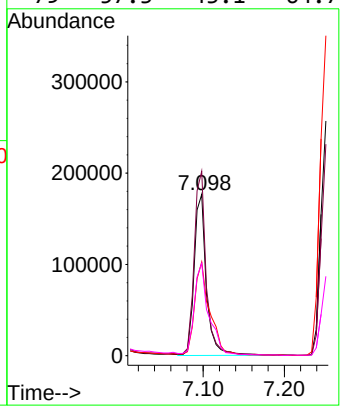




#17
2-Methylphenol
Concen: 58.284 ng
RT: 7.098 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF134433.D
Acq: 24 Jul 2023 17:10

Tgt Ion:107 Resp: 18562

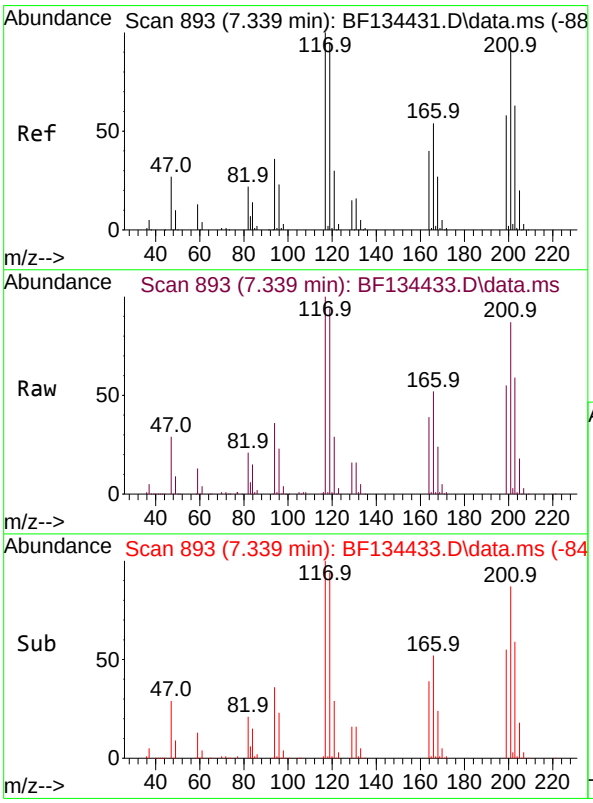
Ion	Ratio	Lower	Upper
107	100		
108	114.4	89.4	134.2
77	58.1	42.4	63.6
79	57.3	43.1	64.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

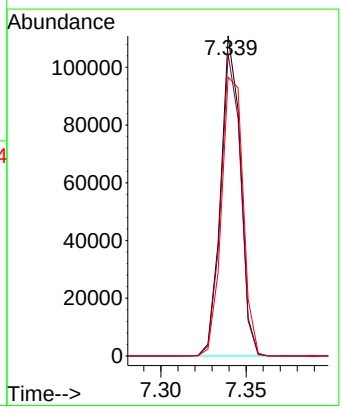
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

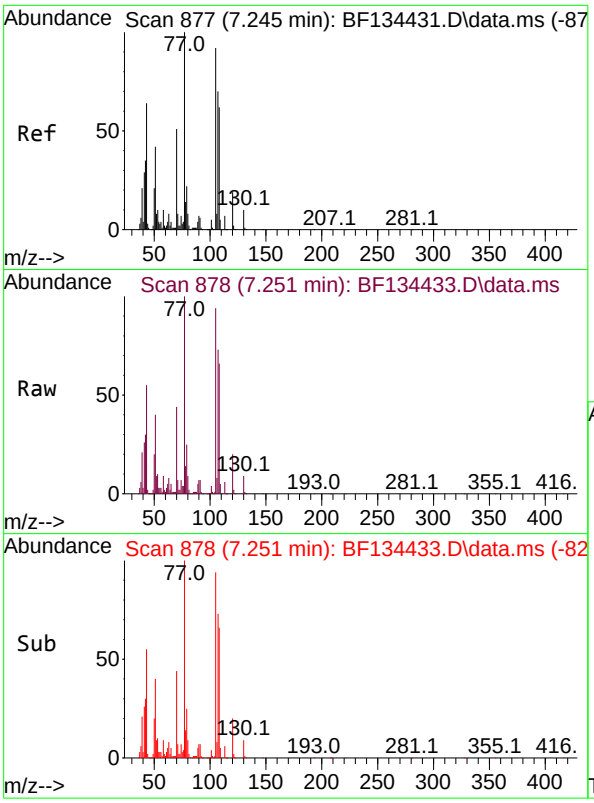


#18
Hexachloroethane
Concen: 58.859 ng
RT: 7.339 min Scan# 893
Delta R.T. 0.000 min
Lab File: BF134433.D
Acq: 24 Jul 2023 17:10

Tgt Ion:117 Resp: 89360

Ion	Ratio	Lower	Upper
117	100		
119	94.3	75.8	113.8
201	87.1	73.6	110.4

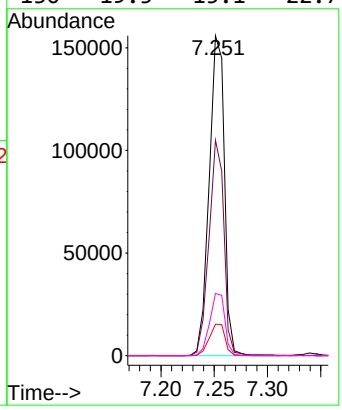




#19
n-Nitroso-di-n-propylamine
Concen: 57.555 ng
RT: 7.251 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF134433.D
Acq: 24 Jul 2023 17:10

Tgt Ion: 70 Resp: 15473

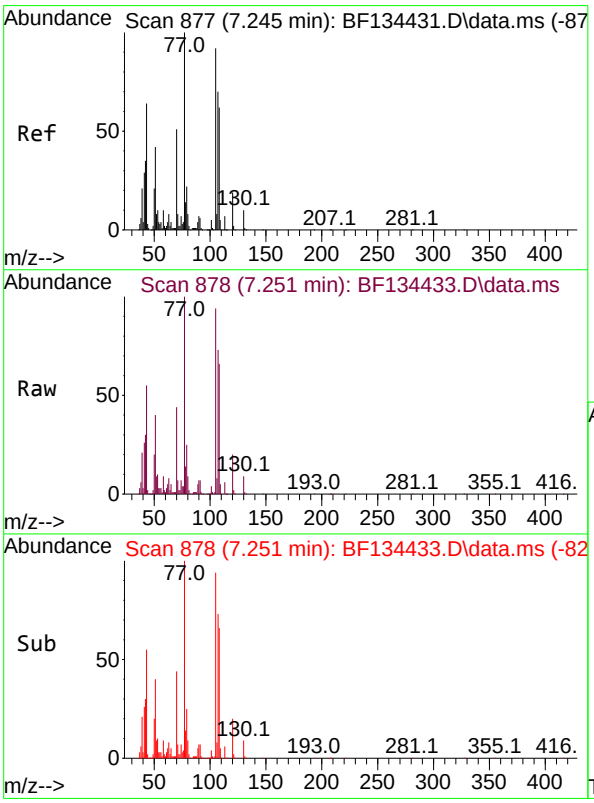
Ion	Ratio	Lower	Upper
70	100		
42	67.4	54.7	82.1
101	9.9	8.2	12.2
130	19.5	15.1	22.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

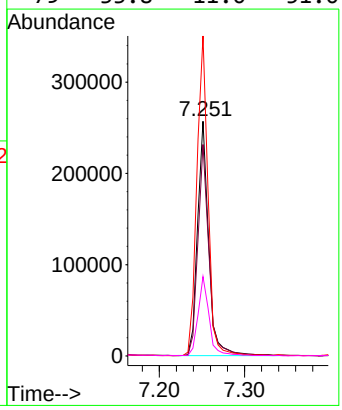
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

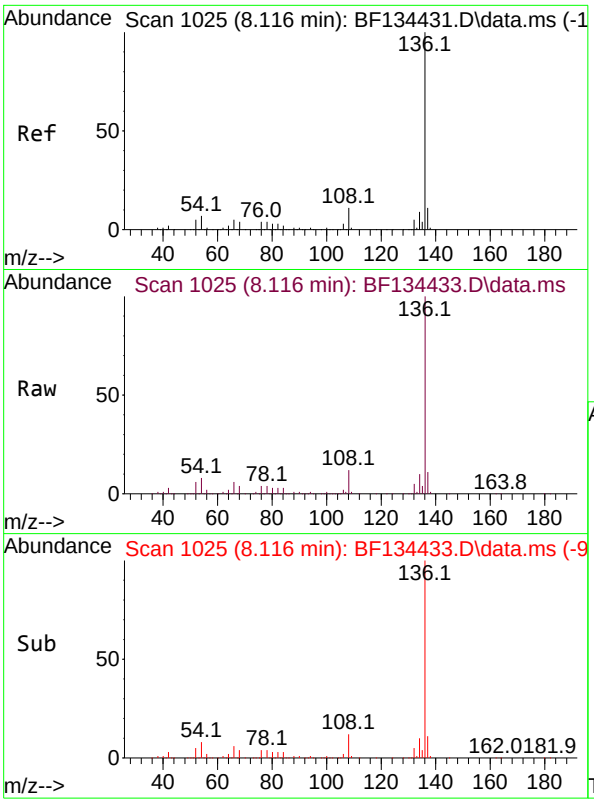


#20
3+4-Methylphenols
Concen: 57.295 ng
RT: 7.251 min Scan# 878
Delta R.T. 0.006 min
Lab File: BF134433.D
Acq: 24 Jul 2023 17:10

Tgt Ion:107 Resp: 233625

Ion	Ratio	Lower	Upper
107	100		
108	90.1	68.1	108.1
77	136.4	122.1	162.1
79	33.8	11.0	51.0

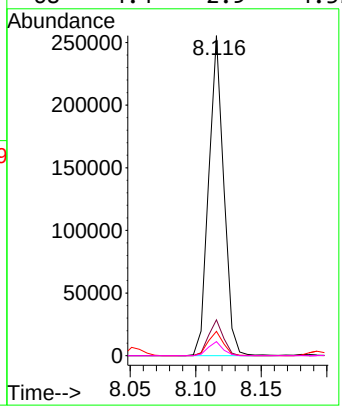




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.116 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134433.D
Acq: 24 Jul 2023 17:10

Tgt Ion:136 Resp: 20440

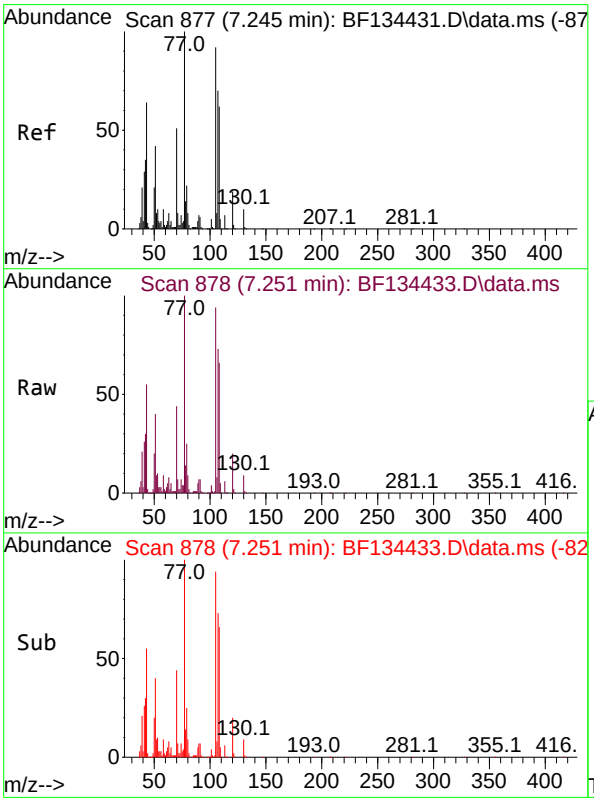
Ion	Ratio	Lower	Upper
136	100		
137	11.2	8.4	12.6
54	7.6	5.2	7.8
68	4.4	2.9	4.3#



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

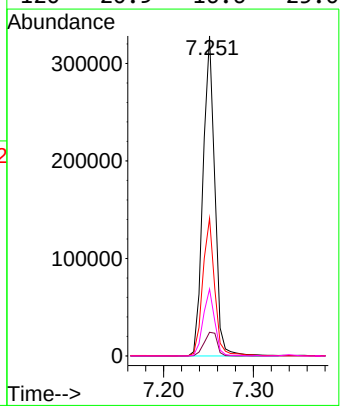
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

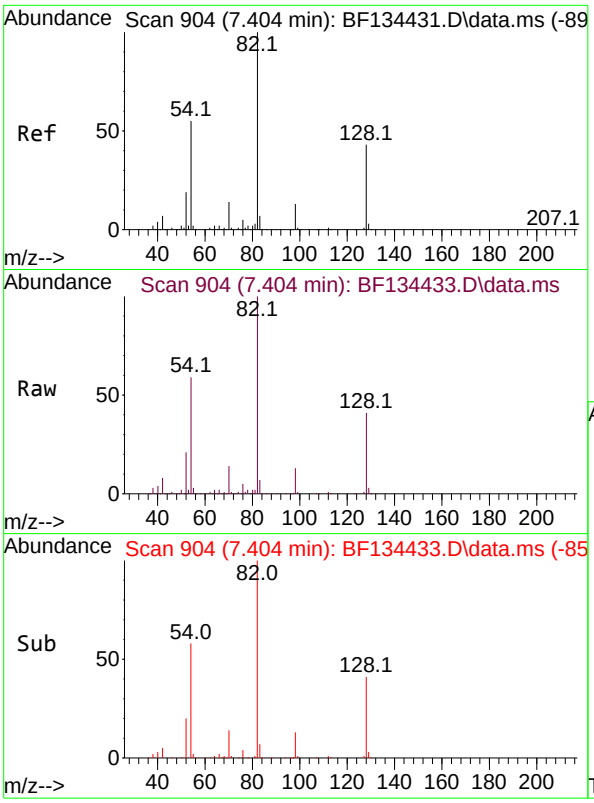


#22
Acetophenone
Concen: 59.073 ng
RT: 7.251 min Scan# 878
Delta R.T. 0.006 min
Lab File: BF134433.D
Acq: 24 Jul 2023 17:10

Tgt Ion:105 Resp: 300294

Ion	Ratio	Lower	Upper
105	100		
71	7.4	7.4	11.0
51	43.0	36.4	54.6
120	20.9	16.6	25.0

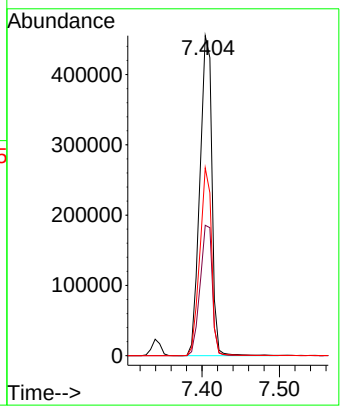




#23
Nitrobenzene-d5
Concen: 121.816 ng
RT: 7.404 min Scan# 9(
Delta R.T. 0.000 min
Lab File: BF134433.D
Acq: 24 Jul 2023 17:10

Tgt Ion: 82 Resp: 49213(

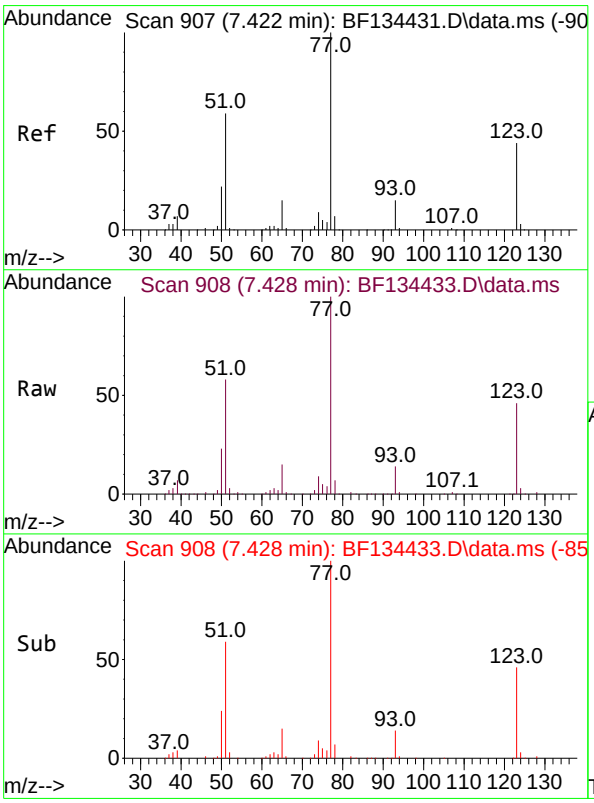
Ion	Ratio	Lower	Upper
82	100		
128	40.8	34.3	51.5
54	58.7	43.8	65.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

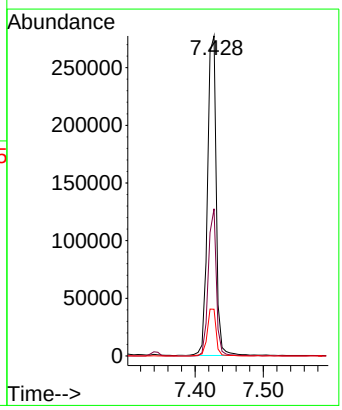
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

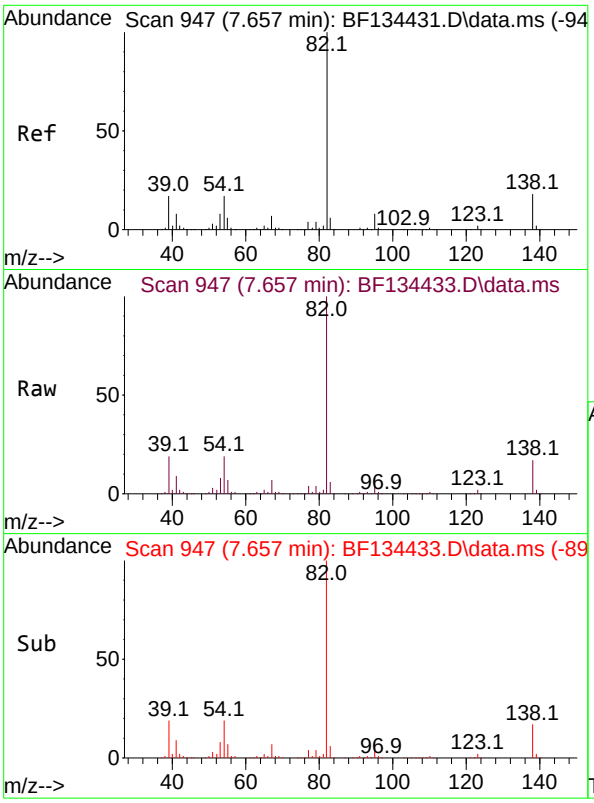


#24
Nitrobenzene
Concen: 61.192 ng
RT: 7.428 min Scan# 908
Delta R.T. 0.006 min
Lab File: BF134433.D
Acq: 24 Jul 2023 17:10

Tgt Ion: 77 Resp: 245857

Ion	Ratio	Lower	Upper
77	100		
123	46.0	35.5	53.3
65	14.6	11.9	17.9

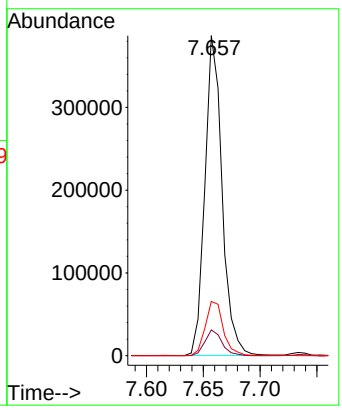




#25
Isophorone
Concen: 60.326 ng
RT: 7.657 min Scan# 94
Delta R.T. 0.000 min
Lab File: BF134433.D
Acq: 24 Jul 2023 17:10

Tgt Ion: 82 Resp: 40617

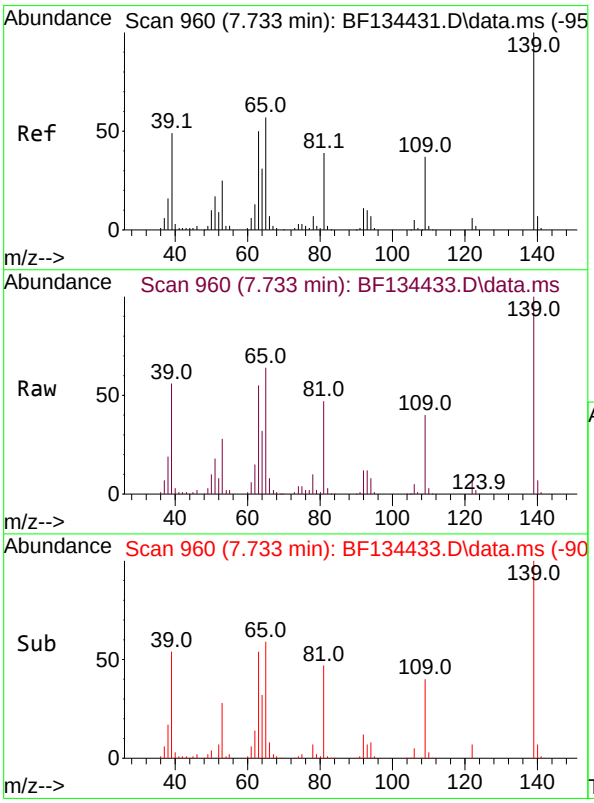
Ion	Ratio	Lower	Upper
82	100		
95	8.0	6.0	9.0
138	16.9	14.6	22.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

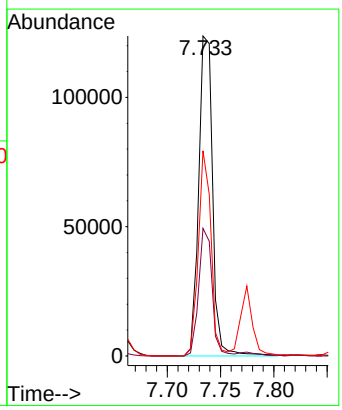
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

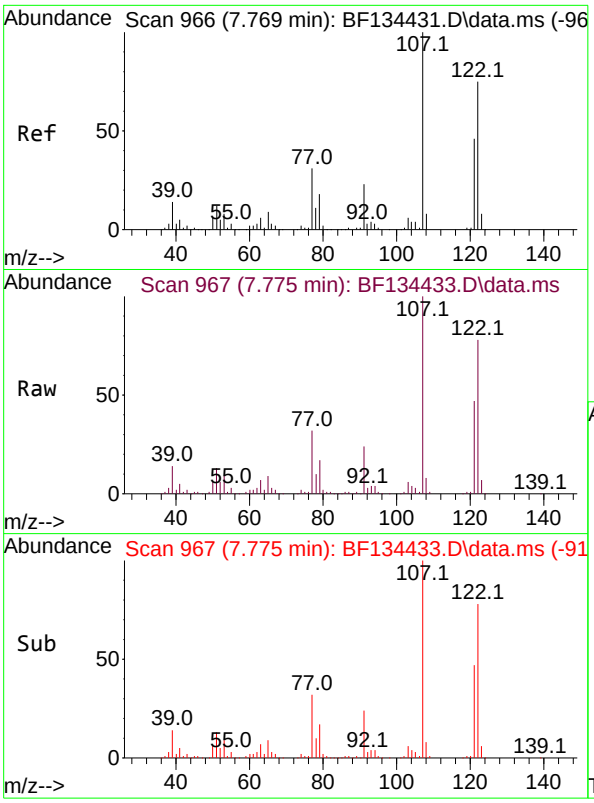


#26
2-Nitrophenol
Concen: 61.345 ng
RT: 7.733 min Scan# 960
Delta R.T. 0.000 min
Lab File: BF134433.D
Acq: 24 Jul 2023 17:10

Tgt Ion:139 Resp: 113362

Ion	Ratio	Lower	Upper
139	100		
109	39.8	29.8	44.6
65	64.1	45.4	68.2

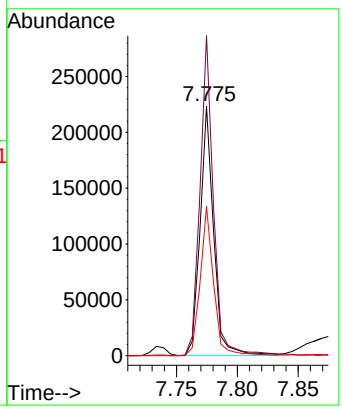




#27
2,4-Dimethylphenol
Concen: 59.034 ng
RT: 7.775 min Scan# 9
Delta R.T. 0.006 min
Lab File: BF134433.D
Acq: 24 Jul 2023 17:10

Tgt Ion:122 Resp: 17215

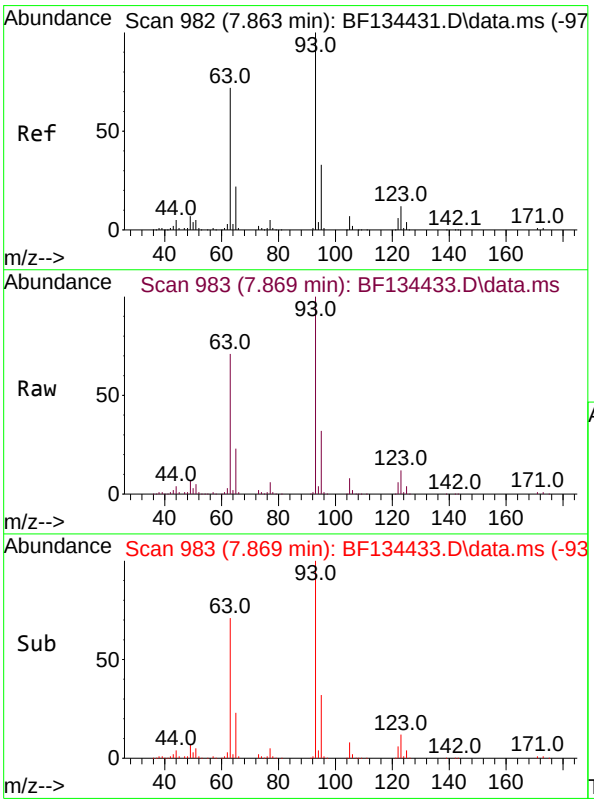
Ion	Ratio	Lower	Upper
122	100		
107	128.2	106.7	160.1
121	59.8	49.0	73.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

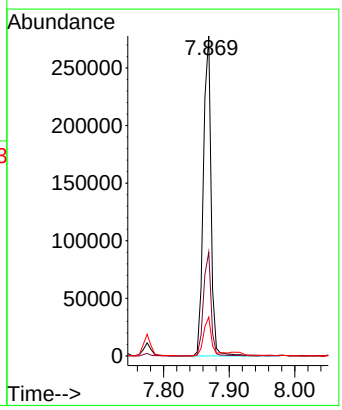
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

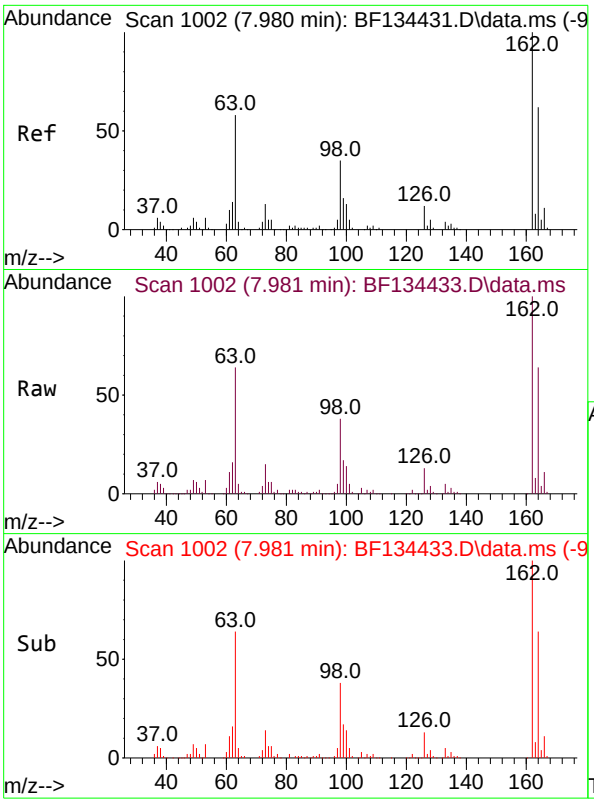


#28
bis(2-Chloroethoxy)methane
Concen: 60.698 ng
RT: 7.869 min Scan# 983
Delta R.T. 0.006 min
Lab File: BF134433.D
Acq: 24 Jul 2023 17:10

Tgt Ion: 93 Resp: 227481

Ion	Ratio	Lower	Upper
93	100		
95	32.5	26.5	39.7
123	12.1	9.6	14.4

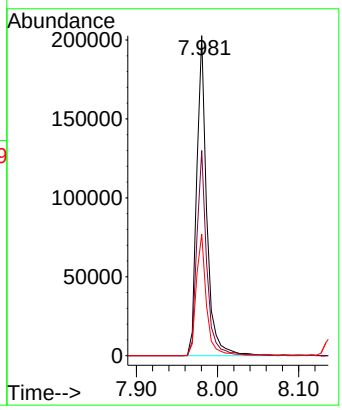




#29
2,4-Dichlorophenol
Concen: 60.088 ng
RT: 7.981 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134433.D
Acq: 24 Jul 2023 17:10

Tgt Ion:162 Resp: 17517

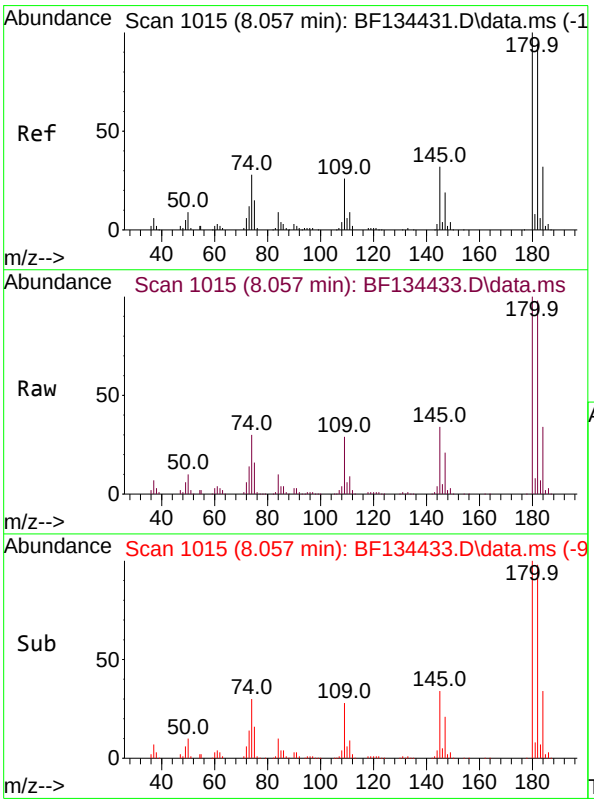
Ion	Ratio	Lower	Upper
162	100		
164	64.1	42.2	82.2
98	38.0	15.5	55.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

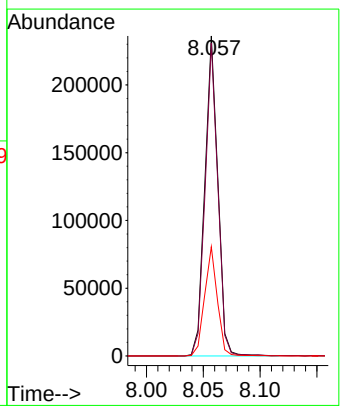
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

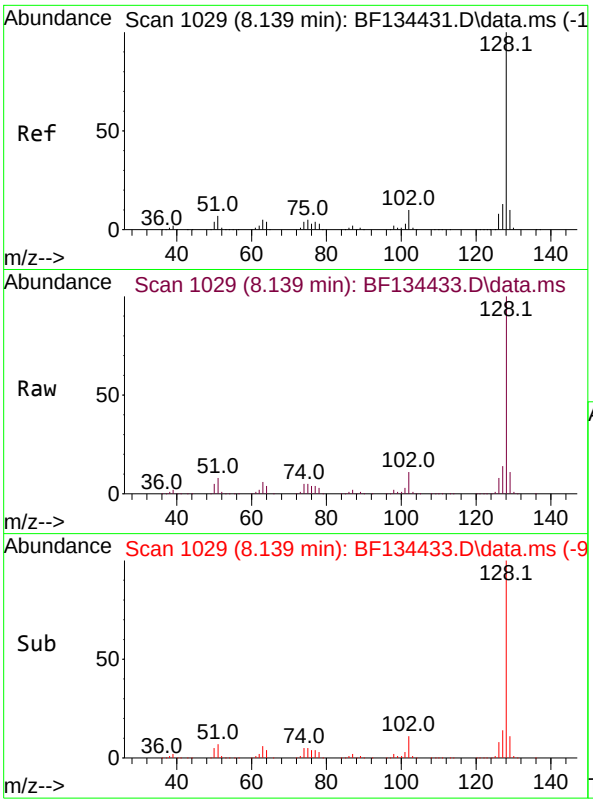


#30
1,2,4-Trichlorobenzene
Concen: 59.601 ng
RT: 8.057 min Scan# 1015
Delta R.T. 0.000 min
Lab File: BF134433.D
Acq: 24 Jul 2023 17:10

Tgt Ion:180 Resp: 187420

Ion	Ratio	Lower	Upper
180	100		
182	97.8	75.0	112.6
145	34.1	25.5	38.3

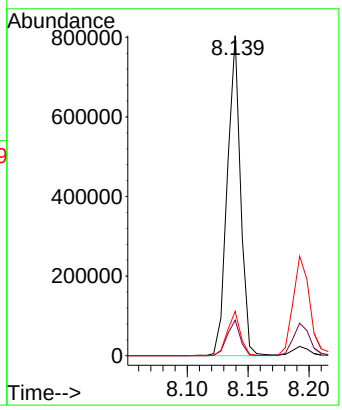




#31
Naphthalene
Concen: 60.025 ng
RT: 8.139 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134433.D
Acq: 24 Jul 2023 17:10

Tgt Ion:128 Resp: 61061

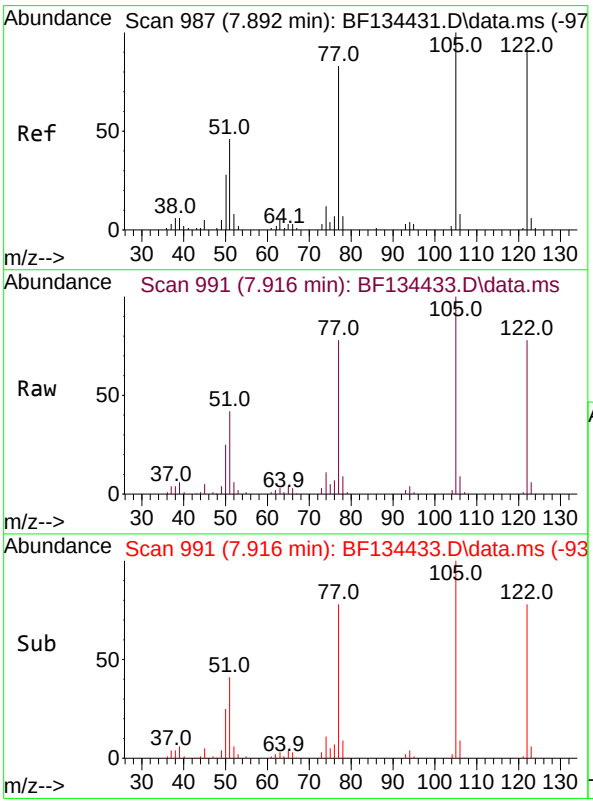
Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.4	12.6
127	13.9	10.7	16.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

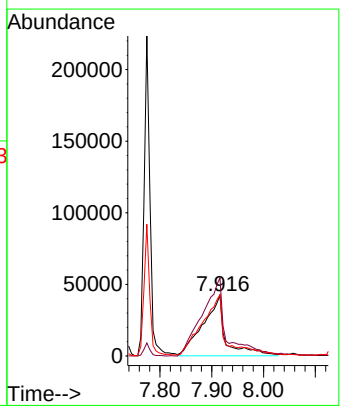
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

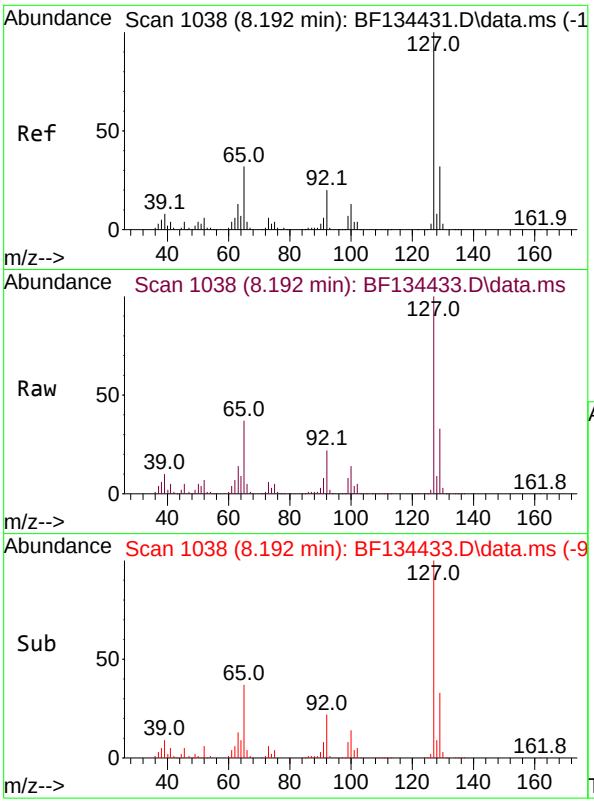


#32
Benzoic acid
Concen: 67.174 ng m
RT: 7.916 min Scan# 991
Delta R.T. 0.024 min
Lab File: BF134433.D
Acq: 24 Jul 2023 17:10

Tgt Ion:122 Resp: 129358

Ion	Ratio	Lower	Upper
122	100		
105	128.8	87.5	127.5#
77	101.0	71.4	111.4

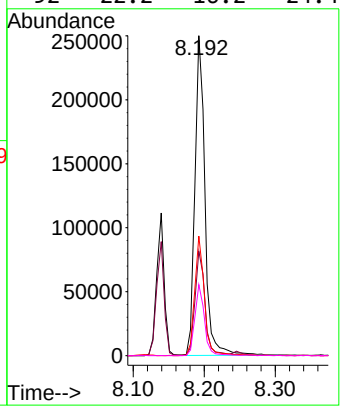




#33
4-Chloroaniline
Concen: 58.779 ng
RT: 8.192 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134433.D
Acq: 24 Jul 2023 17:10

Tgt Ion:127 Resp: 24716

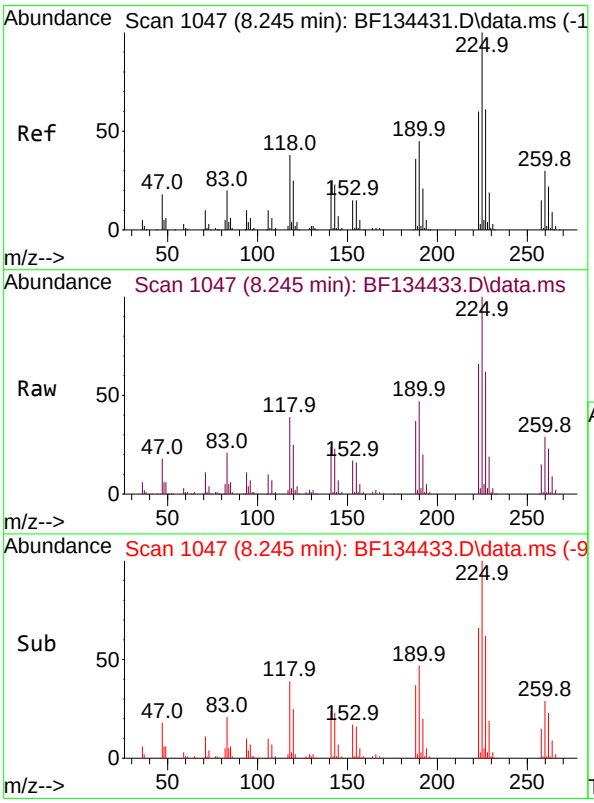
Ion	Ratio	Lower	Upper
127	100		
129	32.6	25.6	38.4
65	37.3	25.4	38.0
92	22.2	16.2	24.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

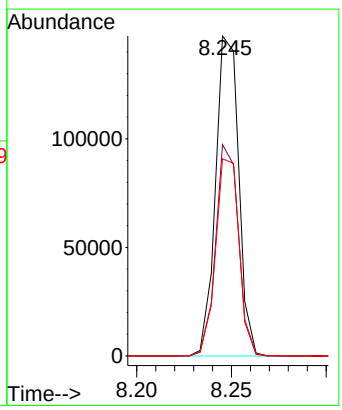
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

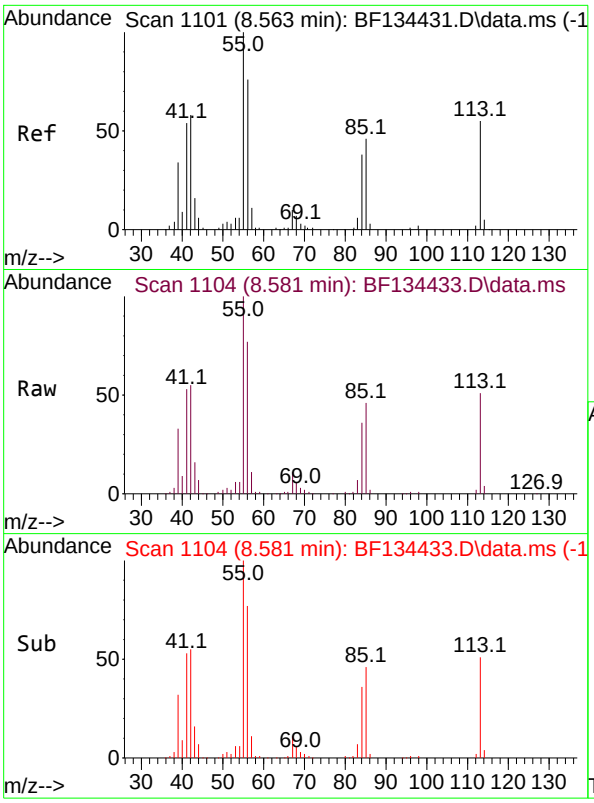


#34
Hexachlorobutadiene
Concen: 59.445 ng
RT: 8.245 min Scan# 1047
Delta R.T. 0.000 min
Lab File: BF134433.D
Acq: 24 Jul 2023 17:10

Tgt Ion:225 Resp: 125227

Ion	Ratio	Lower	Upper
225	100		
223	66.0	48.2	72.4
227	61.6	48.5	72.7

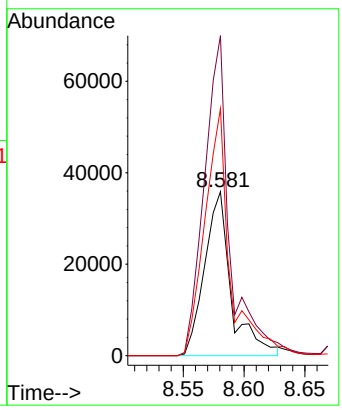




#35
Caprolactam
Concen: 61.642 ng m
RT: 8.581 min Scan# 1
Delta R.T. 0.018 min
Lab File: BF134433.D
Acq: 24 Jul 2023 17:10

Tgt Ion:113 Resp: 5484

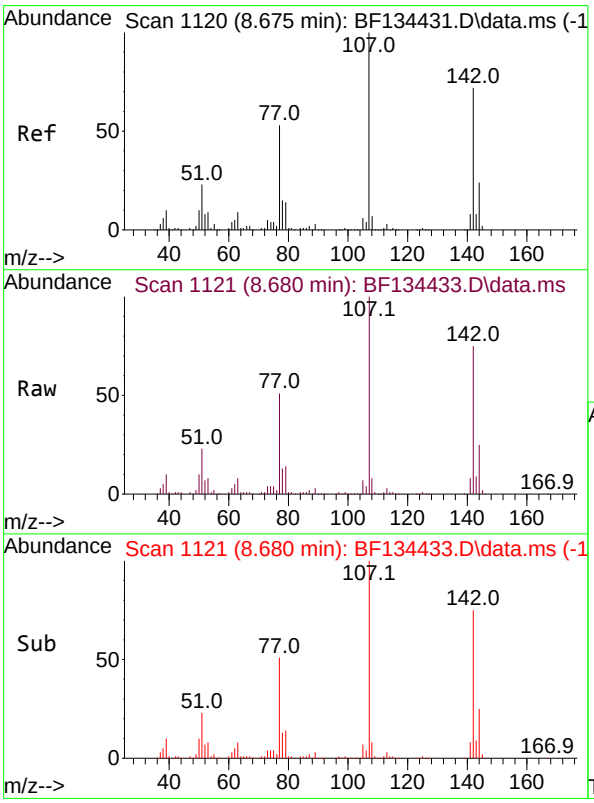
Ion	Ratio	Lower	Upper
113	100		
55	195.1	161.5	201.5
56	150.6	117.8	157.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

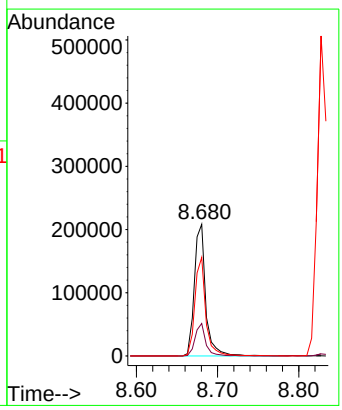
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

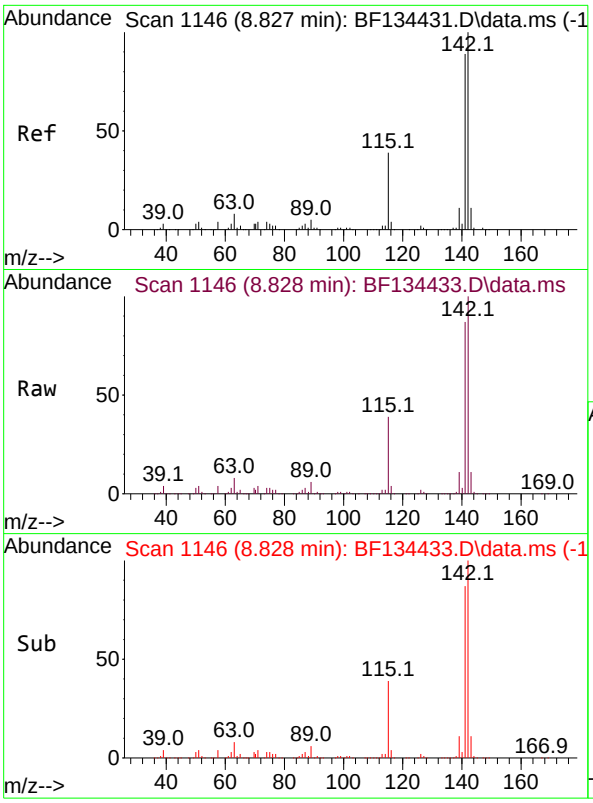


#36
4-Chloro-3-methylphenol
Concen: 60.611 ng
RT: 8.680 min Scan# 1121
Delta R.T. 0.006 min
Lab File: BF134433.D
Acq: 24 Jul 2023 17:10

Tgt Ion:107 Resp: 203880

Ion	Ratio	Lower	Upper
107	100		
144	24.7	19.6	29.4
142	74.9	57.7	86.5

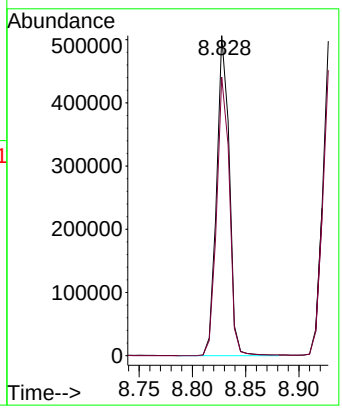




#37
2-Methylnaphthalene
Concen: 59.123 ng
RT: 8.828 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134433.D
Acq: 24 Jul 2023 17:10

Tgt Ion:142 Resp: 41789

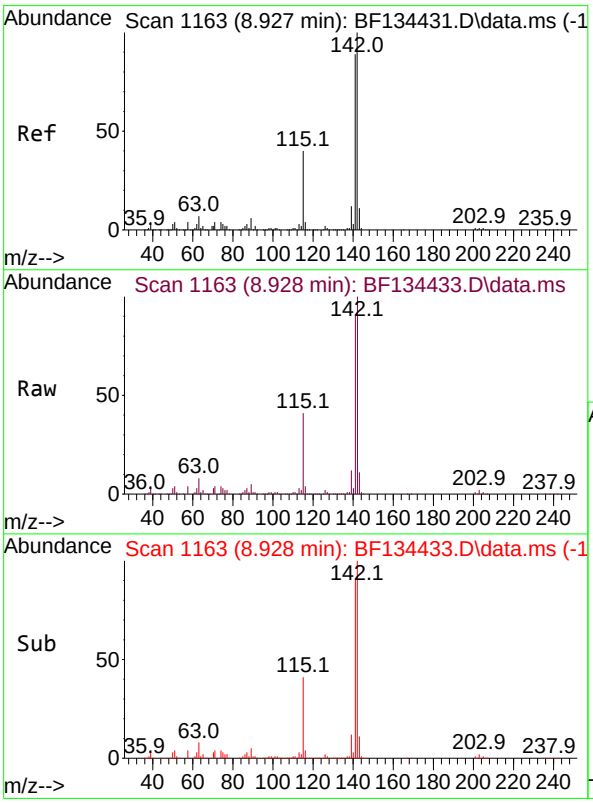
Ion	Ratio	Lower	Upper
142	100		
141	87.0	70.8	106.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

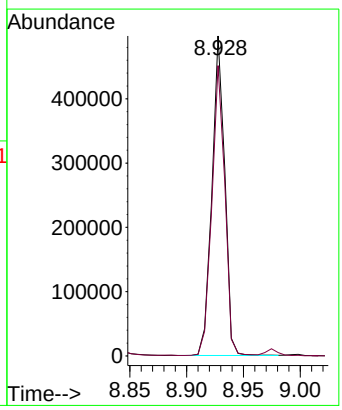
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

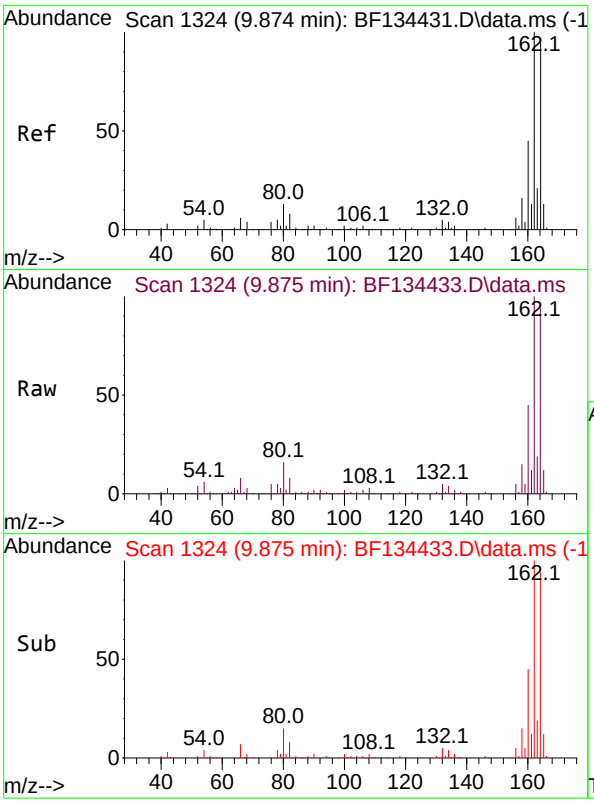


#38
1-Methylnaphthalene
Concen: 59.135 ng
RT: 8.928 min Scan# 1163
Delta R.T. 0.000 min
Lab File: BF134433.D
Acq: 24 Jul 2023 17:10

Tgt Ion:142 Resp: 387757

Ion	Ratio	Lower	Upper
142	100		
141	90.7	71.4	107.2

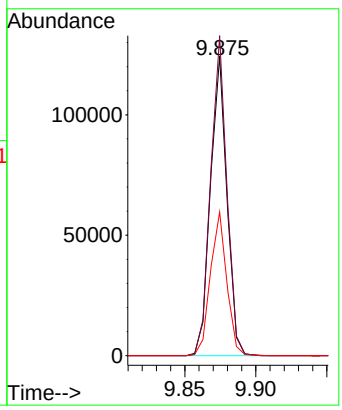




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.875 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134433.D
Acq: 24 Jul 2023 17:10

Tgt Ion:164 Resp: 10021

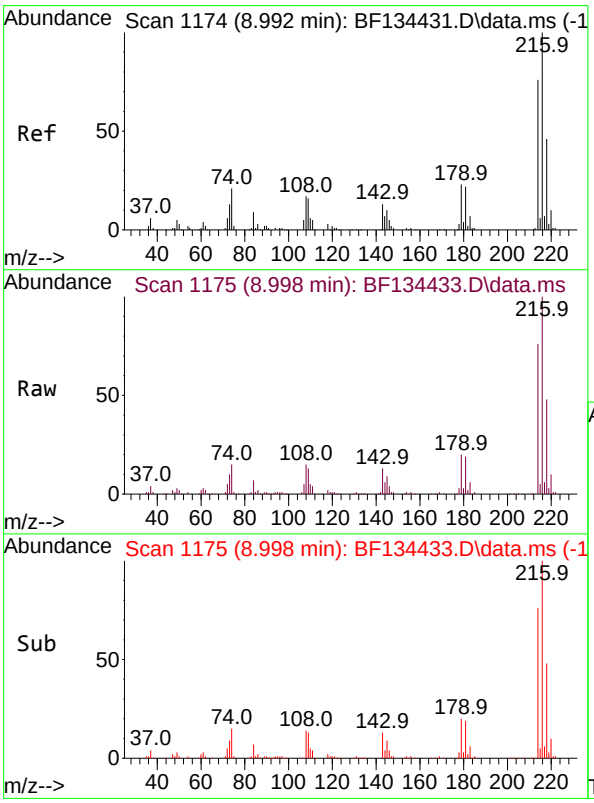
Ion	Ratio	Lower	Upper
164	100		
162	106.8	82.6	123.8
160	47.9	37.2	55.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

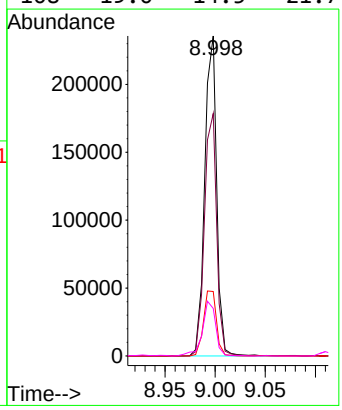
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

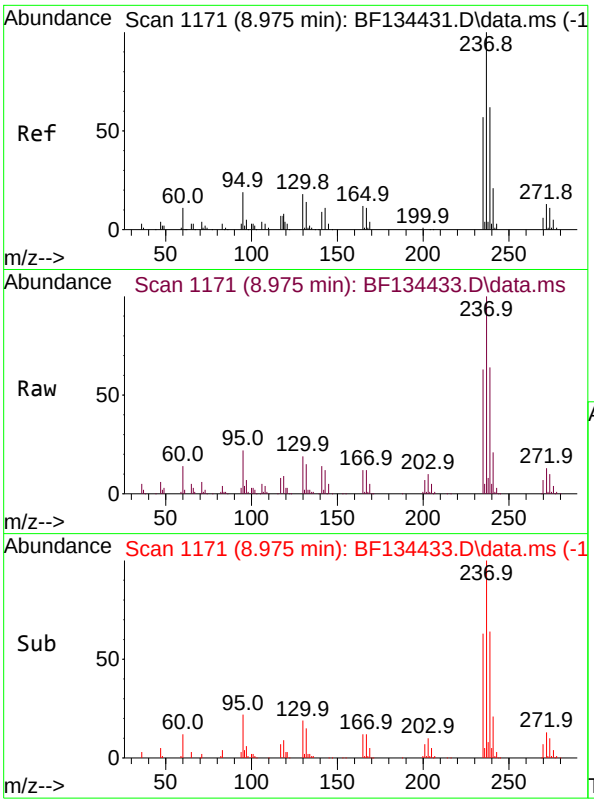


#40
1,2,4,5-Tetrachlorobenzene
Concen: 61.689 ng
RT: 8.998 min Scan# 1175
Delta R.T. 0.006 min
Lab File: BF134433.D
Acq: 24 Jul 2023 17:10

Tgt Ion:216 Resp: 195905

Ion	Ratio	Lower	Upper
216	100		
214	78.1	62.3	93.5
179	21.9	17.4	26.0
108	19.0	14.5	21.7





#41
Hexachlorocyclopentadiene
Concen: 60.445 ng
RT: 8.975 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF134433.D
Acq: 24 Jul 2023 17:10

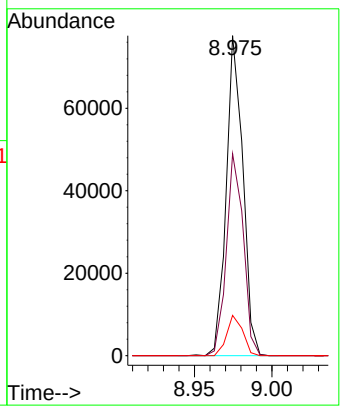
Tgt Ion:237 Resp: 5792

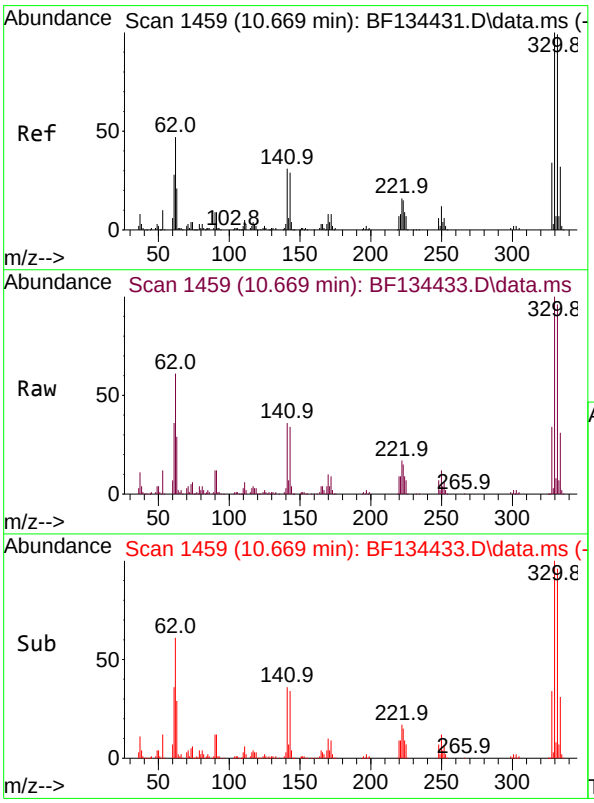
Ion	Ratio	Lower	Upper
237	100		
235	63.1	37.0	77.0
272	12.6	0.0	32.7

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

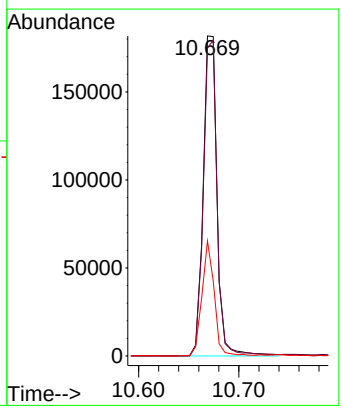


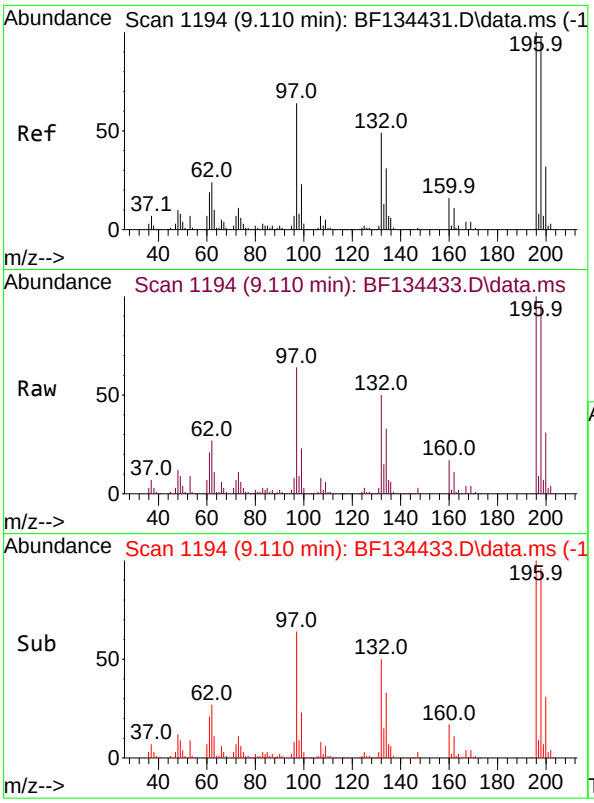


#42
2,4,6-Tribromophenol
Concen: 123.466 ng
RT: 10.669 min Scan# 1459
Delta R.T. 0.000 min
Lab File: BF134433.D
Acq: 24 Jul 2023 17:10

Tgt Ion:330 Resp: 175793

Ion	Ratio	Lower	Upper
330	100		
332	97.1	78.8	118.2
141	31.8	25.4	38.2

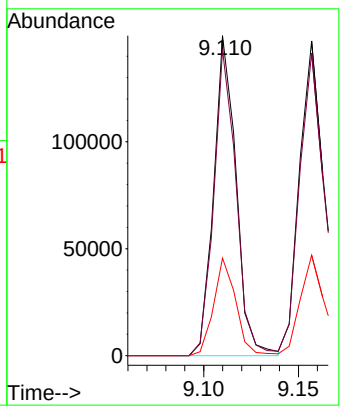




#43
2,4,6-Trichlorophenol
Concen: 60.451 ng
RT: 9.110 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134433.D
Acq: 24 Jul 2023 17:10

Tgt Ion:196 Resp: 12315

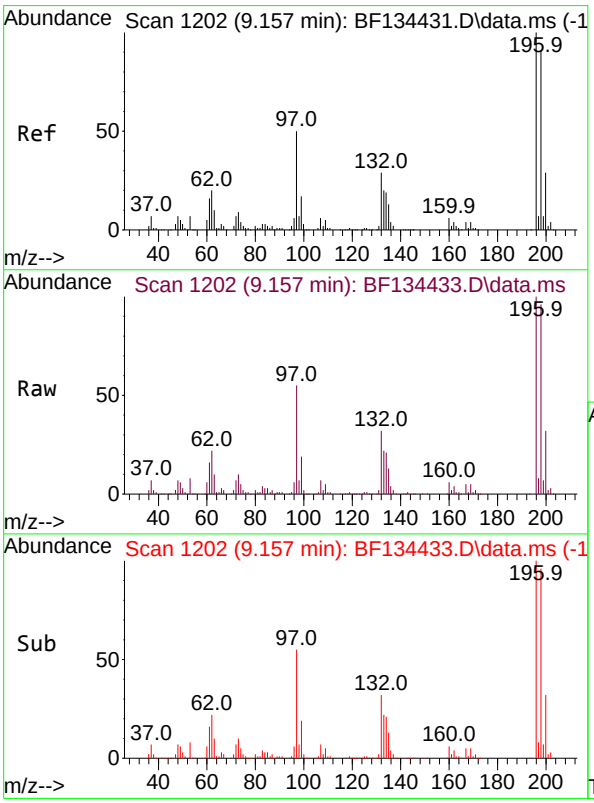
Ion	Ratio	Lower	Upper
196	100		
198	95.6	77.4	116.2
200	30.5	25.4	38.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

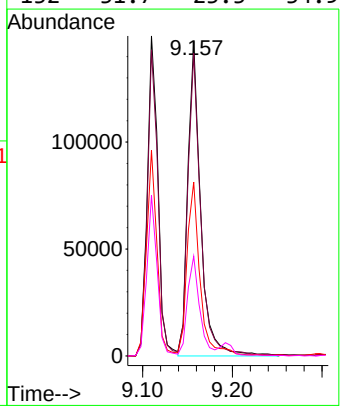
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

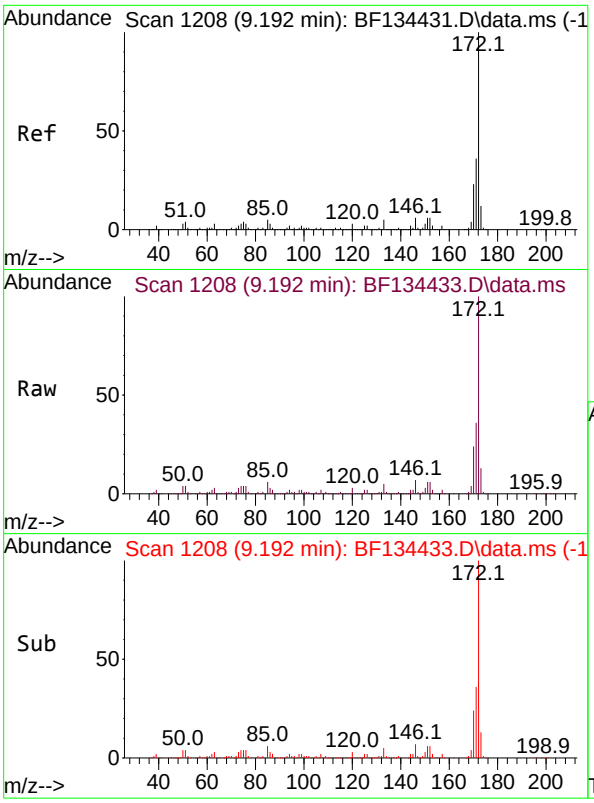


#44
2,4,5-Trichlorophenol
Concen: 61.855 ng
RT: 9.157 min Scan# 1202
Delta R.T. 0.000 min
Lab File: BF134433.D
Acq: 24 Jul 2023 17:10

Tgt Ion:196 Resp: 146820

Ion	Ratio	Lower	Upper
196	100		
198	96.2	73.0	109.4
97	55.3	40.8	61.2
132	31.7	23.3	34.9

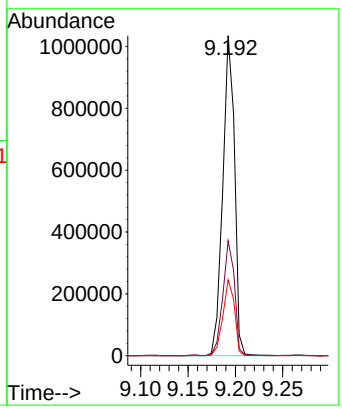




#45
2-Fluorobiphenyl
Concen: 118.090 ng
RT: 9.192 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134433.D
Acq: 24 Jul 2023 17:10

Tgt Ion:172 Resp: 90143

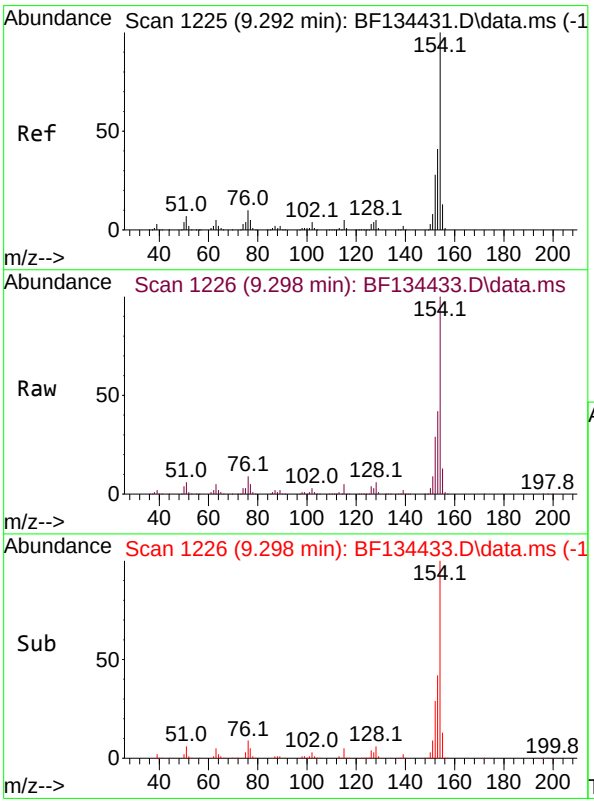
Ion	Ratio	Lower	Upper
172	100		
171	35.9	28.8	43.2
170	23.7	18.7	28.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

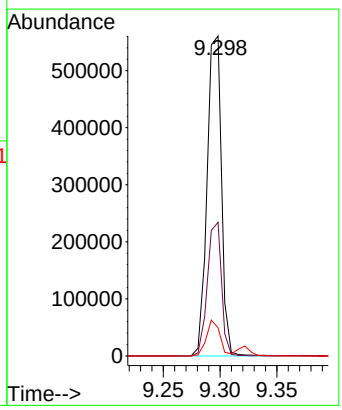
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

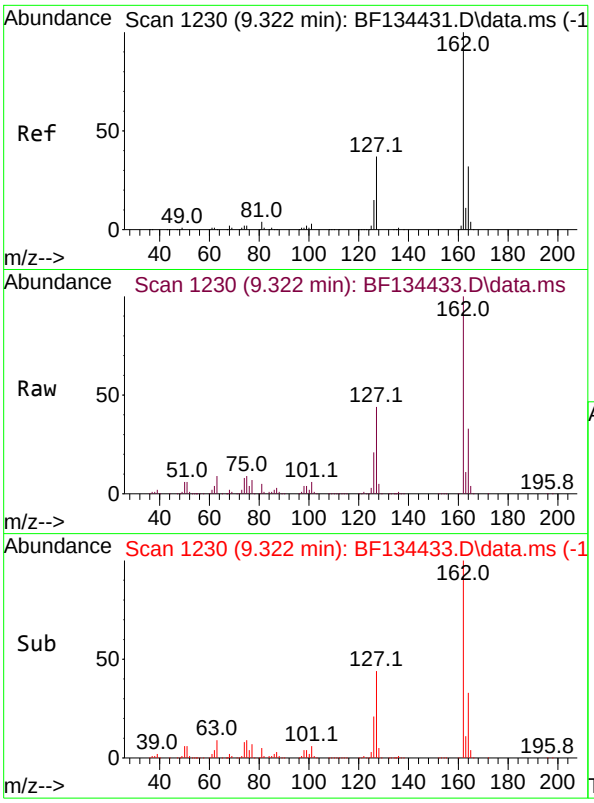


#46
1,1'-Biphenyl
Concen: 59.767 ng
RT: 9.298 min Scan# 1226
Delta R.T. 0.006 min
Lab File: BF134433.D
Acq: 24 Jul 2023 17:10

Tgt Ion:154 Resp: 493637

Ion	Ratio	Lower	Upper
154	100		
153	41.8	20.8	60.8
76	8.9	0.0	30.2

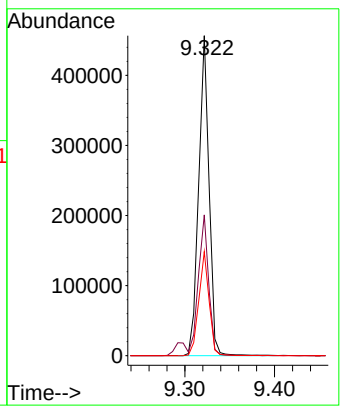




#47
2-Chloronaphthalene
Concen: 60.297 ng
RT: 9.322 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134433.D
Acq: 24 Jul 2023 17:10

Tgt Ion:162 Resp: 36714

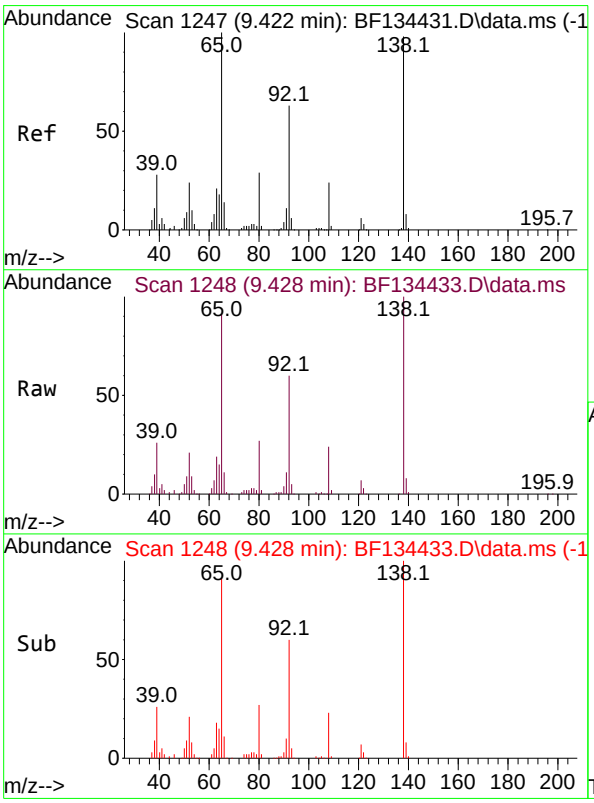
Ion	Ratio	Lower	Upper
162	100		
127	44.0	34.0	51.0
164	32.5	25.7	38.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

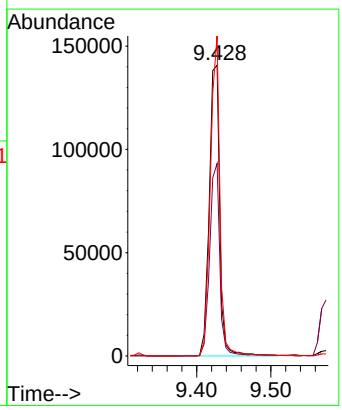
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

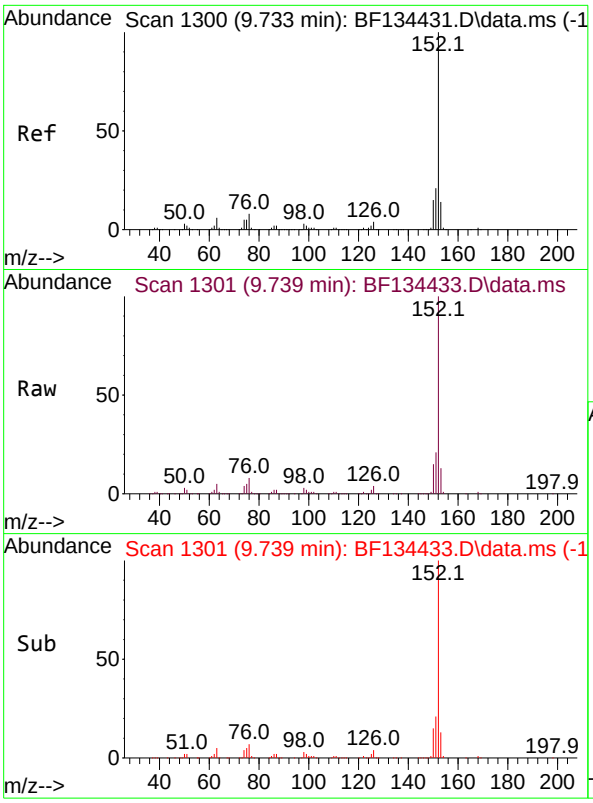


#48
2-Nitroaniline
Concen: 63.101 ng
RT: 9.428 min Scan# 1248
Delta R.T. 0.006 min
Lab File: BF134433.D
Acq: 24 Jul 2023 17:10

Tgt Ion: 65 Resp: 138375

Ion	Ratio	Lower	Upper
65	100		
92	66.2	50.7	76.1
138	110.1	78.2	117.4

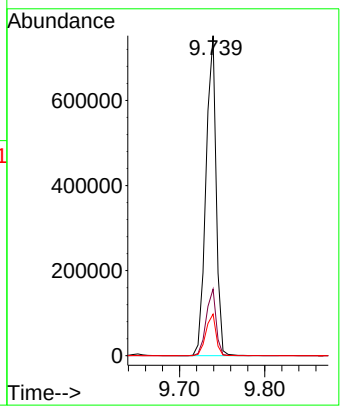




#49
Acenaphthylene
Concen: 60.610 ng
RT: 9.739 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF134433.D
Acq: 24 Jul 2023 17:10

Tgt Ion:152 Resp: 62347

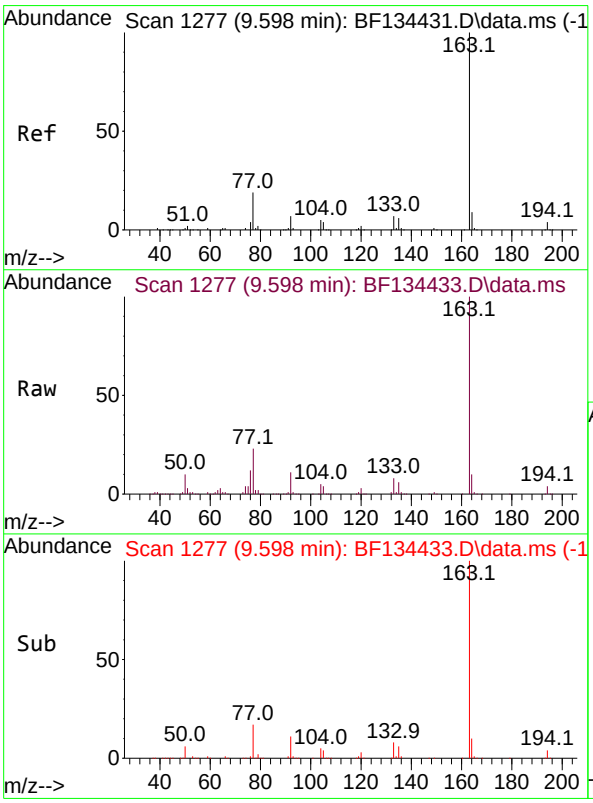
Ion	Ratio	Lower	Upper
152	100		
151	20.8	16.4	24.6
153	13.0	10.9	16.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

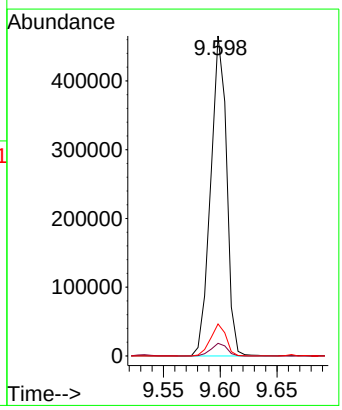
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

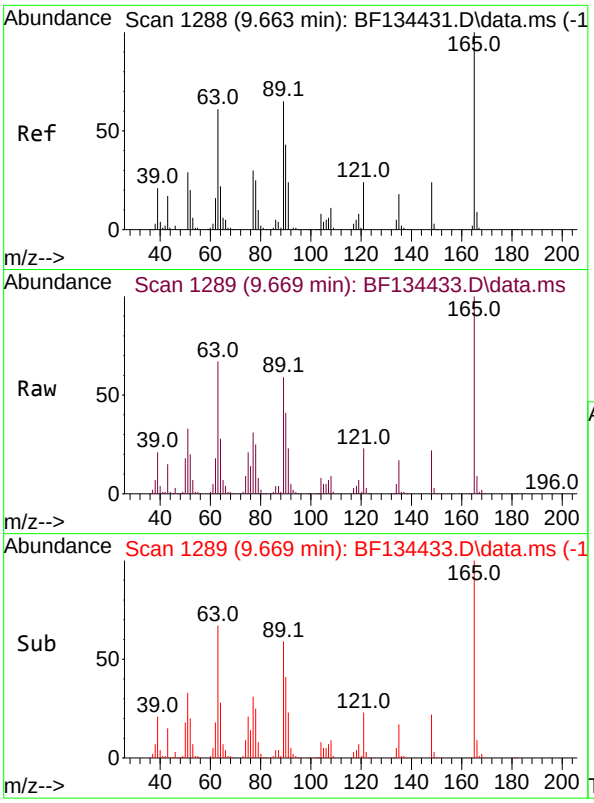


#50
Dimethylphthalate
Concen: 61.141 ng
RT: 9.598 min Scan# 1277
Delta R.T. 0.000 min
Lab File: BF134433.D
Acq: 24 Jul 2023 17:10

Tgt Ion:163 Resp: 454198

Ion	Ratio	Lower	Upper
163	100		
194	4.0	3.3	4.9
164	10.0	7.5	11.3

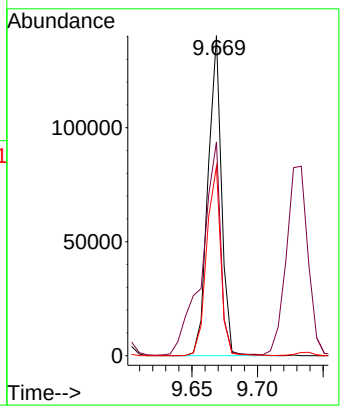




#51
2,6-Dinitrotoluene
Concen: 61.851 ng
RT: 9.669 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF134433.D
Acq: 24 Jul 2023 17:10

Tgt Ion:165 Resp: 10081

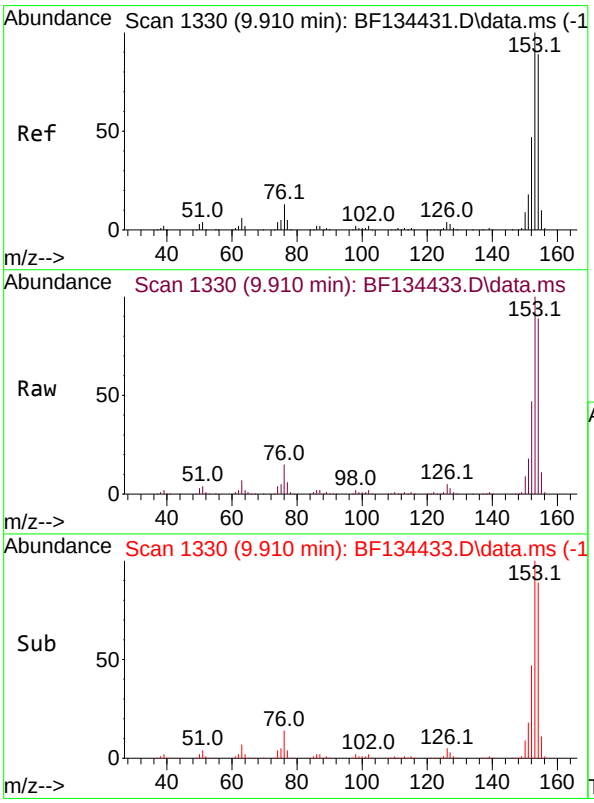
Ion	Ratio	Lower	Upper
165	100		
63	66.8	57.8	86.6
89	59.2	51.8	77.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

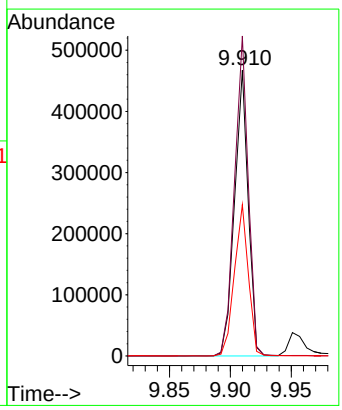
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

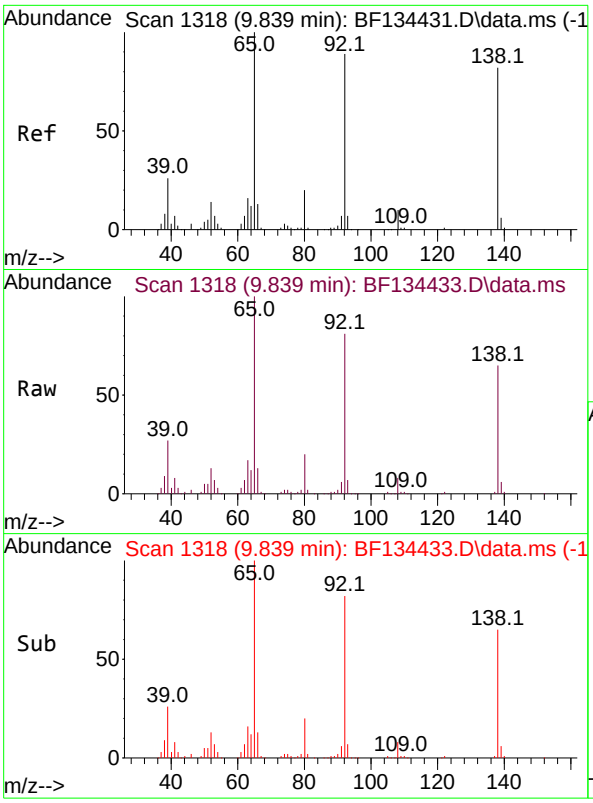


#52
Acenaphthene
Concen: 60.181 ng
RT: 9.910 min Scan# 1330
Delta R.T. -0.000 min
Lab File: BF134433.D
Acq: 24 Jul 2023 17:10

Tgt Ion:154 Resp: 365699

Ion	Ratio	Lower	Upper
154	100		
153	112.0	90.0	135.0
152	52.9	42.4	63.6





#53
3-Nitroaniline
Concen: 60.537 ng
RT: 9.839 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134433.D
Acq: 24 Jul 2023 17:10

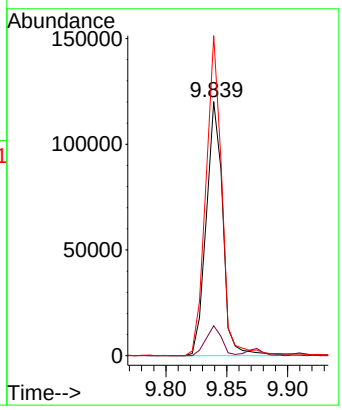
Tgt Ion:138 Resp: 11313

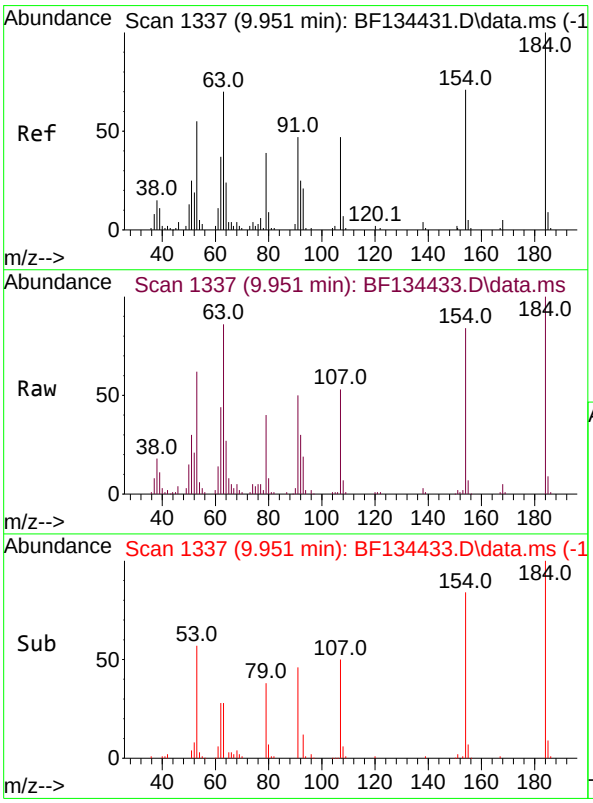
Ion	Ratio	Lower	Upper
138	100		
108	11.8	9.3	13.9
92	125.9	86.6	129.8

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

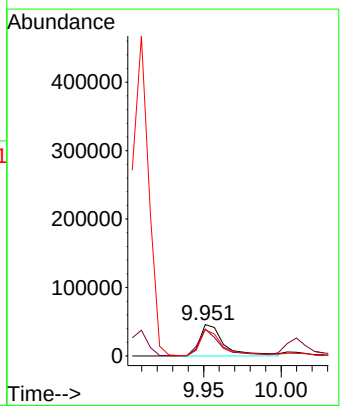


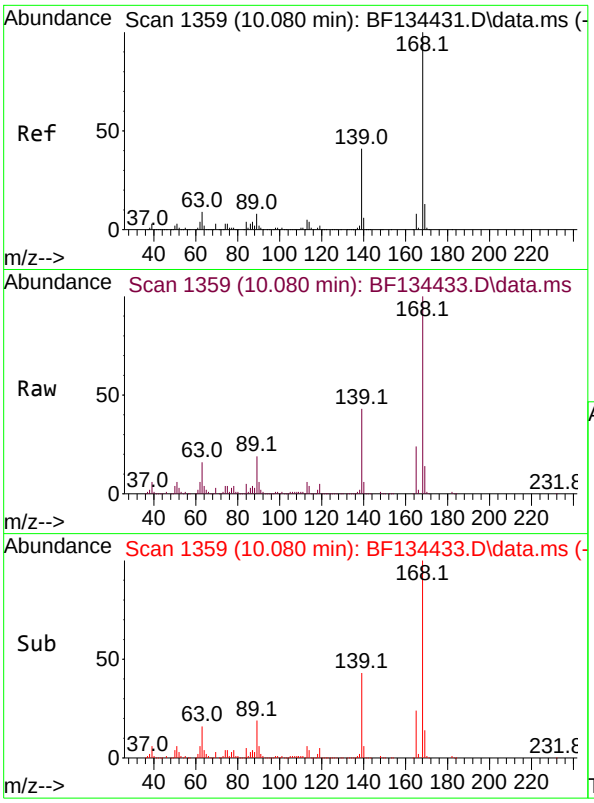


#54
2,4-Dinitrophenol
Concen: 60.434 ng
RT: 9.951 min Scan# 1337
Delta R.T. 0.000 min
Lab File: BF134433.D
Acq: 24 Jul 2023 17:10

Tgt Ion:184 Resp: 50184

Ion	Ratio	Lower	Upper
184	100		
63	86.1	57.1	85.7#
154	83.6	59.1	88.7

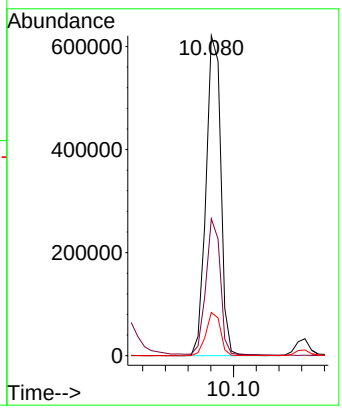




#55
Dibenzofuran
Concen: 60.178 ng
RT: 10.080 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134433.D
Acq: 24 Jul 2023 17:10

Tgt Ion:168 Resp: 56282

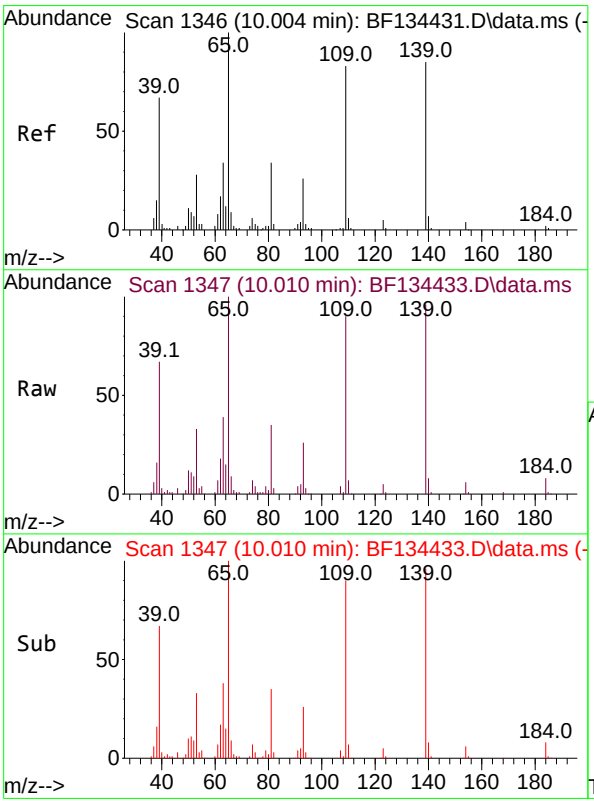
Ion	Ratio	Lower	Upper
168	100		
139	42.8	33.4	50.2
169	13.5	10.6	15.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

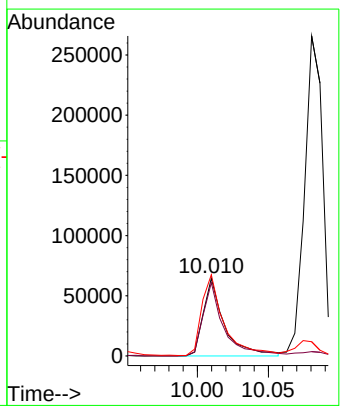
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

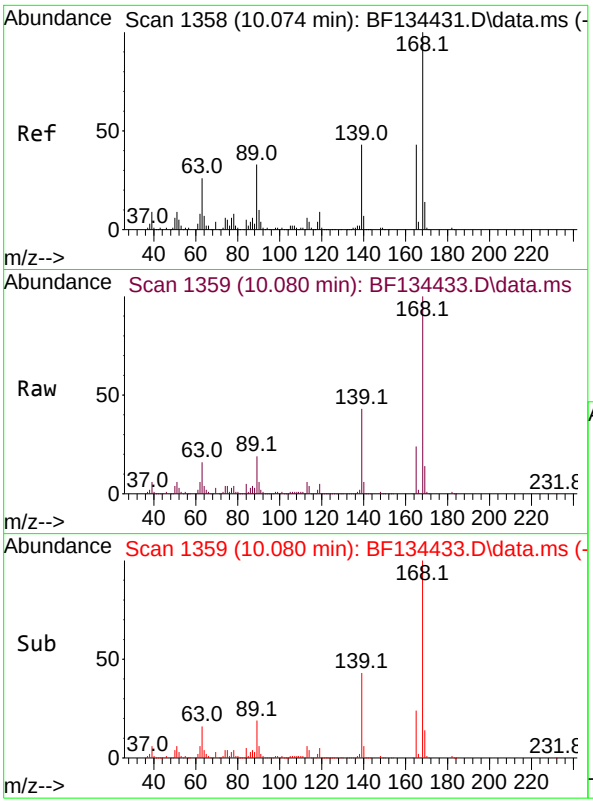


#56
4-Nitrophenol
Concen: 66.870 ng
RT: 10.010 min Scan# 1347
Delta R.T. 0.006 min
Lab File: BF134433.D
Acq: 24 Jul 2023 17:10

Tgt Ion:139 Resp: 66644

Ion	Ratio	Lower	Upper
139	100		
109	94.2	76.9	116.9
65	104.6	98.5	138.5

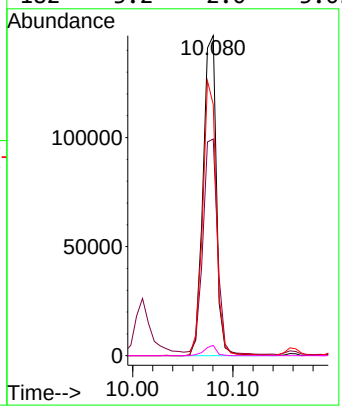




#57
2,4-Dinitrotoluene
Concen: 62.443 ng
RT: 10.080 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF134433.D
Acq: 24 Jul 2023 17:10

Tgt Ion:165 Resp: 13671

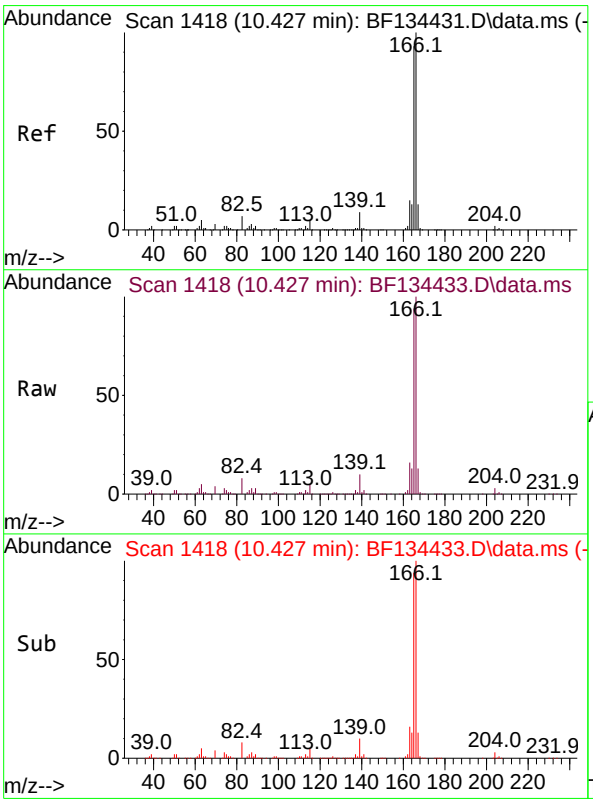
Ion	Ratio	Lower	Upper
165	100		
63	67.7	48.9	73.3
89	78.5	61.7	92.5
182	3.2	2.0	3.0#



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

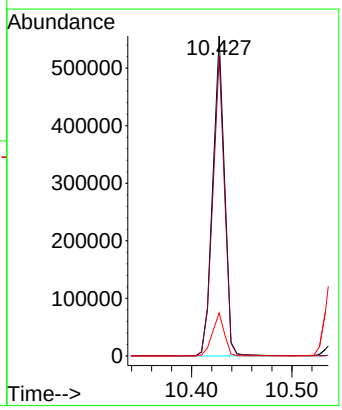
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

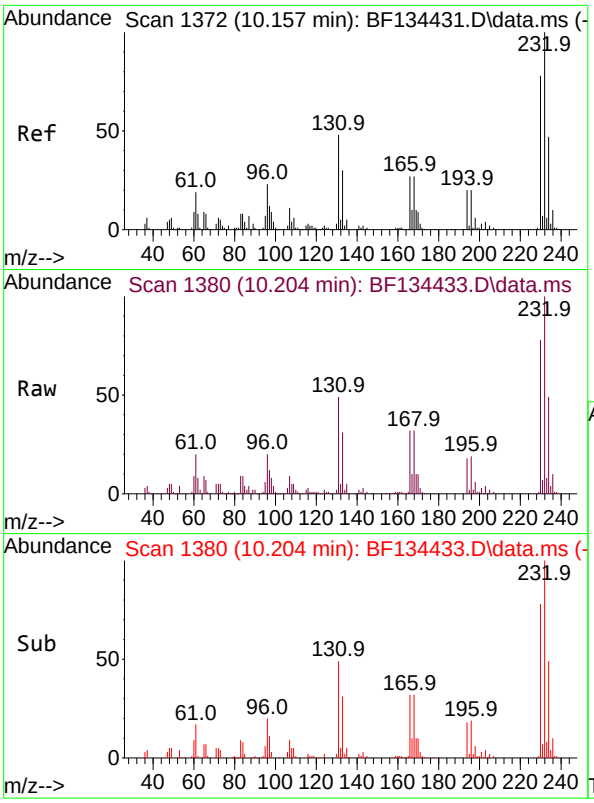


#58
Fluorene
Concen: 60.288 ng
RT: 10.427 min Scan# 1418
Delta R.T. 0.000 min
Lab File: BF134433.D
Acq: 24 Jul 2023 17:10

Tgt Ion:166 Resp: 454878

Ion	Ratio	Lower	Upper
166	100		
165	93.8	74.5	111.7
167	13.5	10.6	16.0

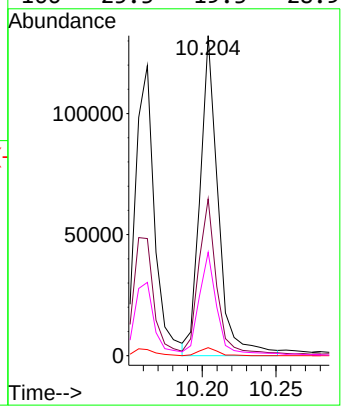




#59
2,3,4,6-Tetrachlorophenol
Concen: 61.809 ng m
RT: 10.204 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134433.D
Acq: 24 Jul 2023 17:10

Tgt Ion:232 Resp: 11314

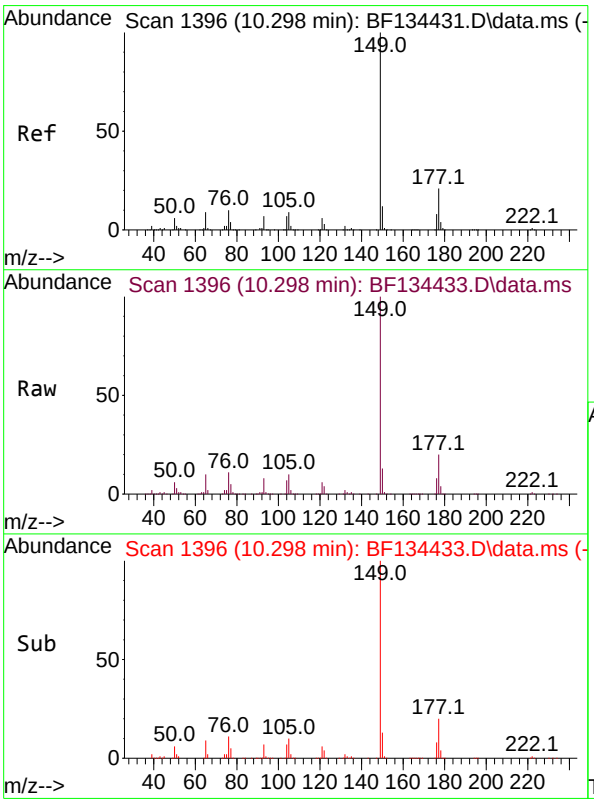
Ion	Ratio	Lower	Upper
232	100		
131	42.4	33.4	50.0
130	2.5	1.8	2.6
166	25.3	19.3	28.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

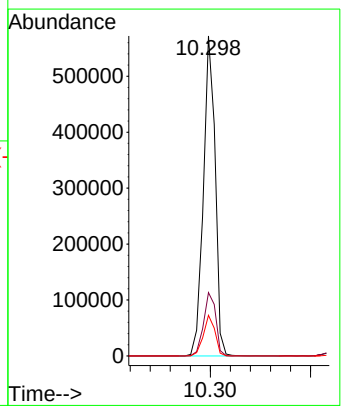
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

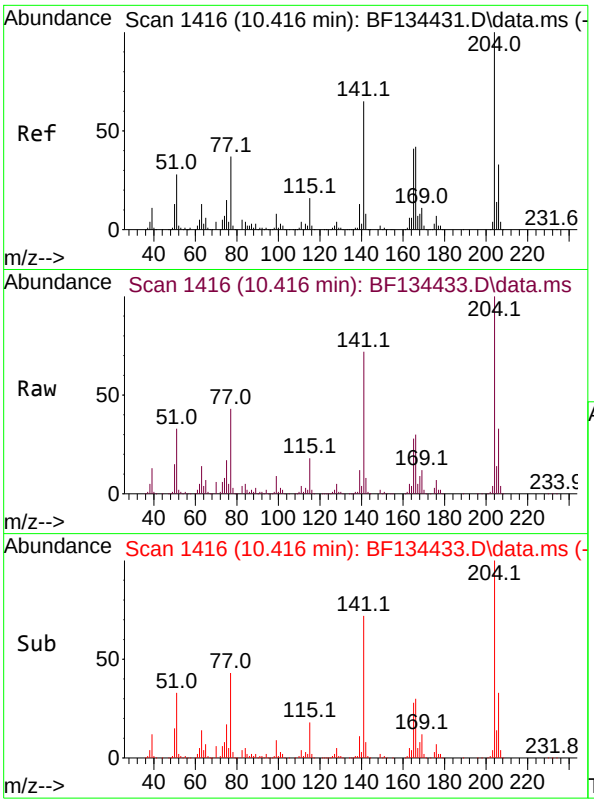


#60
Diethylphthalate
Concen: 61.128 ng
RT: 10.298 min Scan# 1396
Delta R.T. 0.000 min
Lab File: BF134433.D
Acq: 24 Jul 2023 17:10

Tgt Ion:149 Resp: 470143

Ion	Ratio	Lower	Upper
149	100		
177	19.8	17.0	25.4
150	12.7	9.9	14.9





#61
4-Chlorophenyl-phenylether
Concen: 59.750 ng
RT: 10.416 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF134433.D
Acq: 24 Jul 2023 17:10

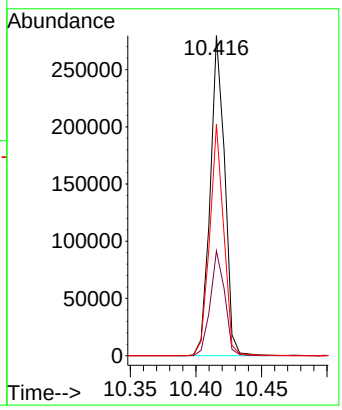
Tgt Ion:204 Resp: 21535

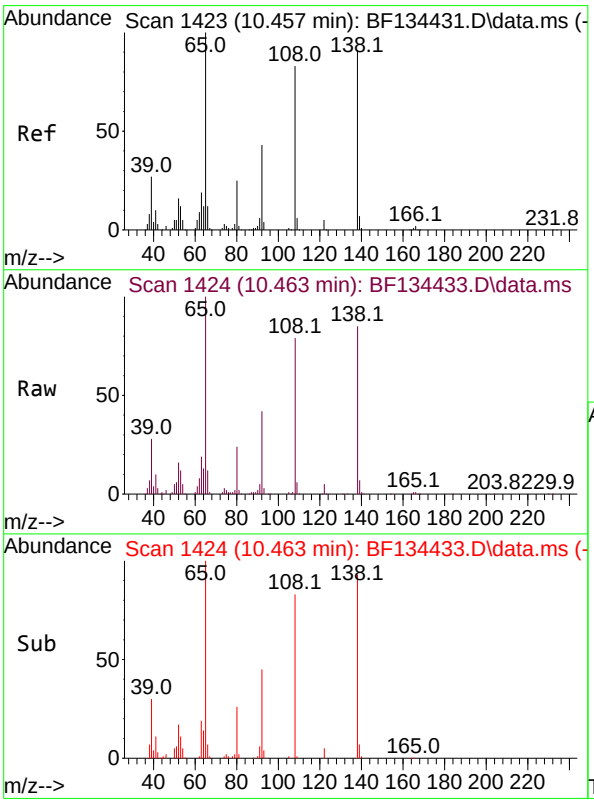
Ion	Ratio	Lower	Upper
204	100		
206	32.7	26.0	39.0
141	72.4	52.2	78.4

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

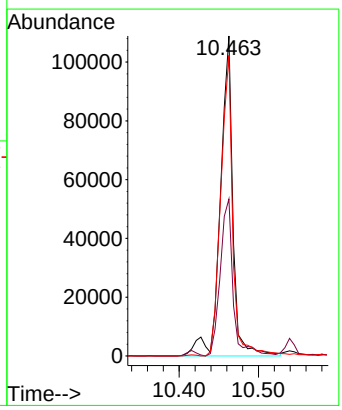


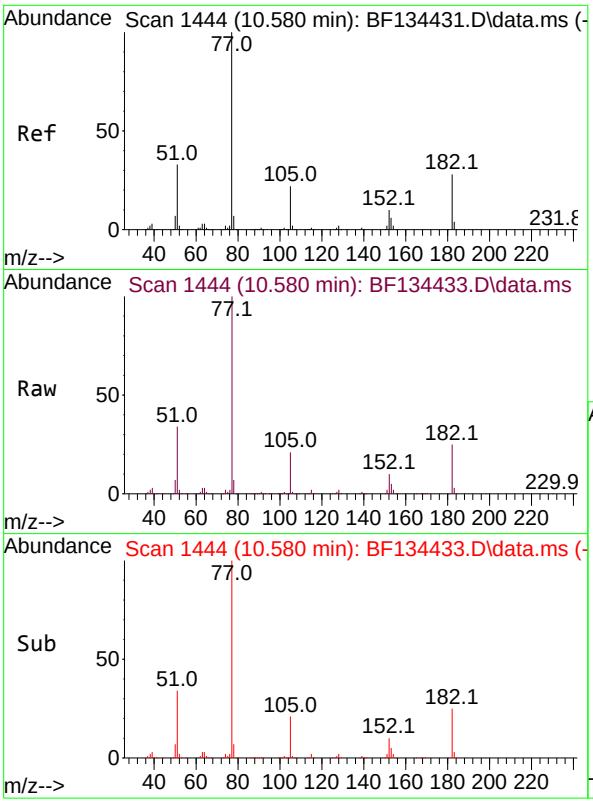


#62
4-Nitroaniline
Concen: 62.570 ng m
RT: 10.463 min Scan# 1424
Delta R.T. 0.006 min
Lab File: BF134433.D
Acq: 24 Jul 2023 17:10

Tgt Ion:138 Resp: 119926

Ion	Ratio	Lower	Upper
138	100		
92	49.1	27.0	67.0
108	93.9	70.4	110.4

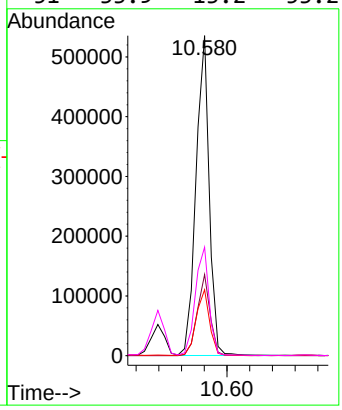




#63
Azobenzene
Concen: 61.249 ng
RT: 10.580 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF134433.D
Acq: 24 Jul 2023 17:10

Tgt Ion: 77 Resp: 43360

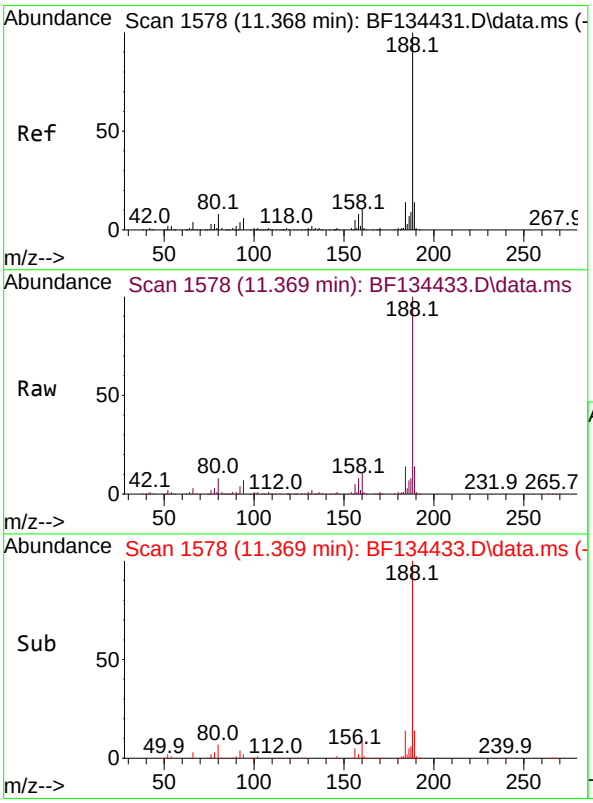
Ion	Ratio	Lower	Upper
77	100		
182	25.3	7.5	47.5
105	20.6	1.9	41.9
51	33.9	13.2	53.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

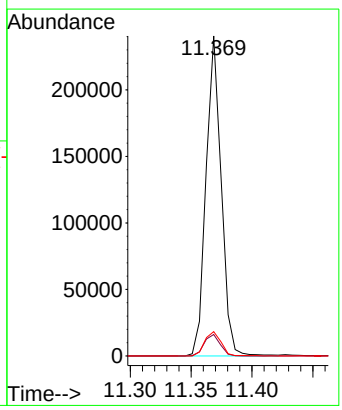
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

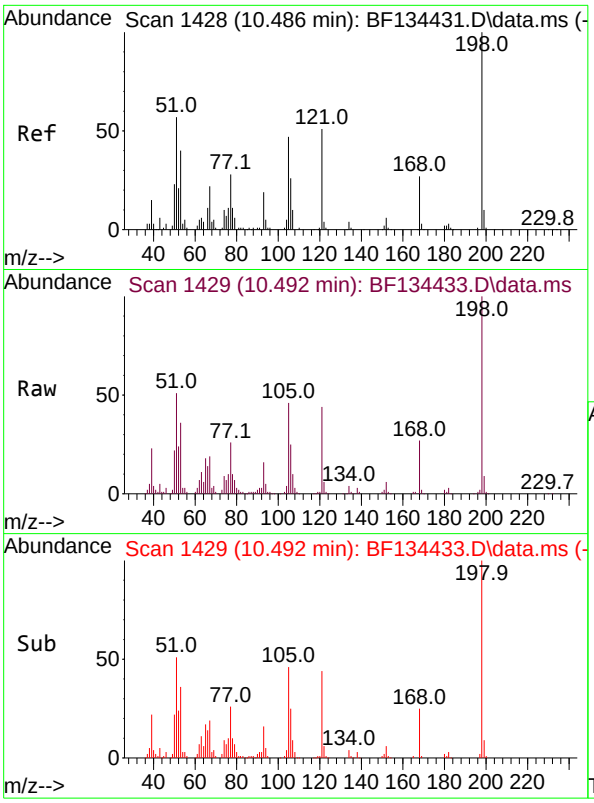


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.369 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BF134433.D
Acq: 24 Jul 2023 17:10

Tgt Ion:188 Resp: 208789

Ion	Ratio	Lower	Upper
188	100		
94	6.7	5.1	7.7
80	7.6	6.6	9.8

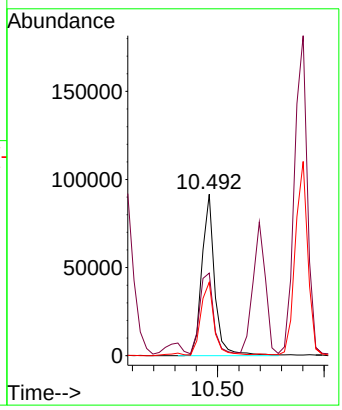




#65
4,6-Dinitro-2-methylphenol
Concen: 64.140 ng
RT: 10.492 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF134433.D
Acq: 24 Jul 2023 17:10

Tgt Ion:198 Resp: 7681

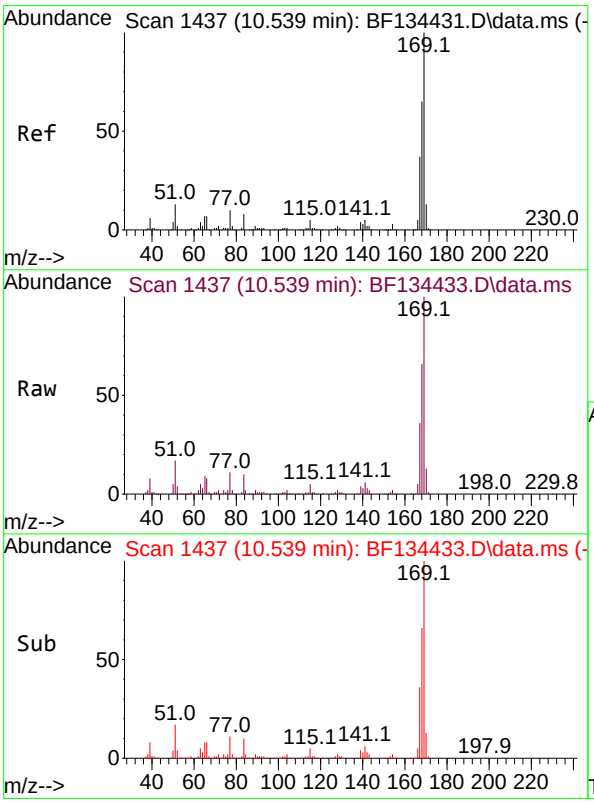
Ion	Ratio	Lower	Upper
198	100		
51	51.2	38.6	78.6
105	45.5	27.9	67.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

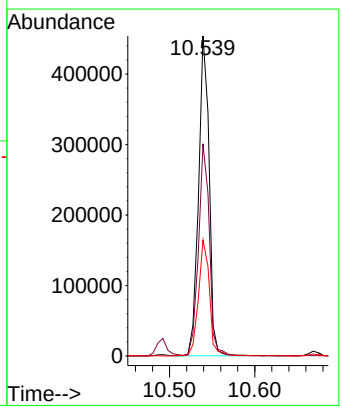
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

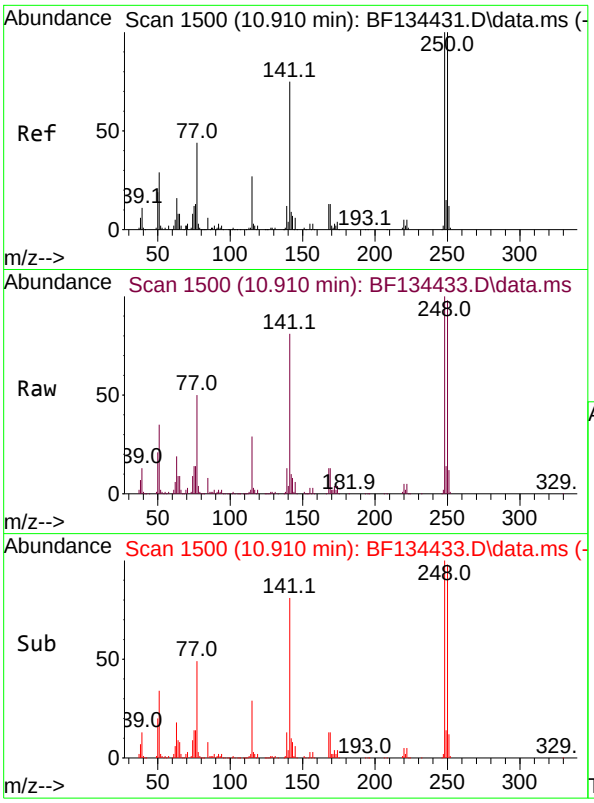


#66
n-Nitrosodiphenylamine
Concen: 59.015 ng
RT: 10.539 min Scan# 1437
Delta R.T. 0.000 min
Lab File: BF134433.D
Acq: 24 Jul 2023 17:10

Tgt Ion:169 Resp: 392021

Ion	Ratio	Lower	Upper
169	100		
168	66.3	52.6	78.8
167	36.3	29.8	44.8

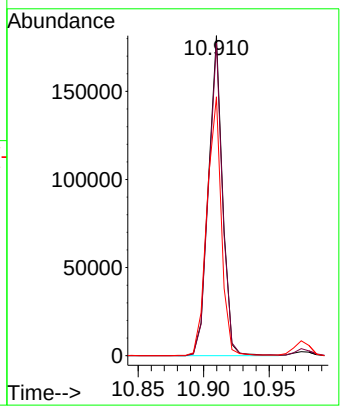




#67
4-Bromophenyl-phenylether
Concen: 59.382 ng
RT: 10.910 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134433.D
Acq: 24 Jul 2023 17:10

Tgt Ion:248 Resp: 13584

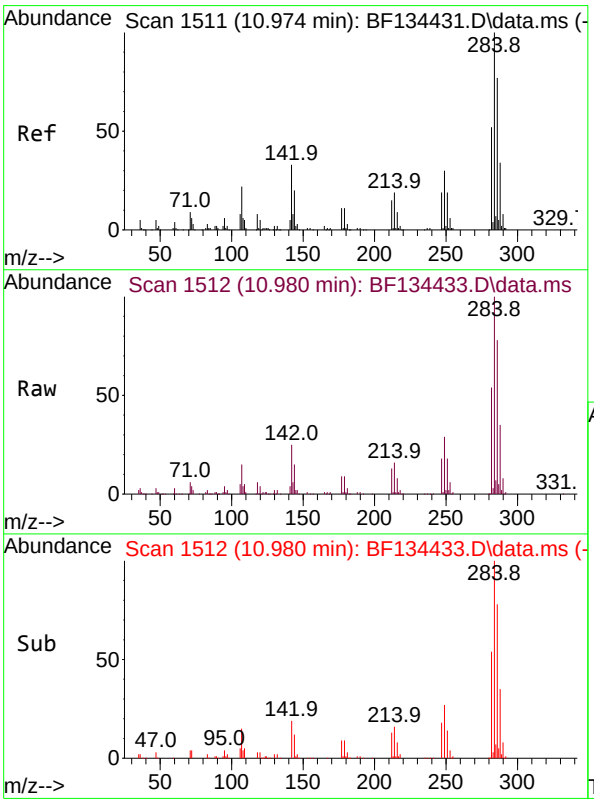
Ion	Ratio	Lower	Upper
248	100		
250	97.7	79.6	119.4
141	80.9	59.6	89.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

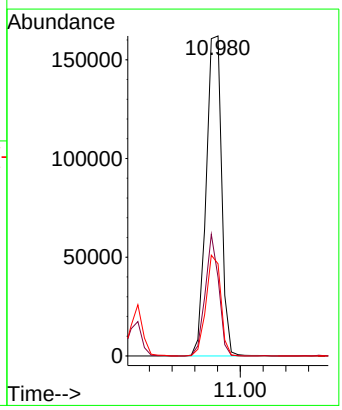
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

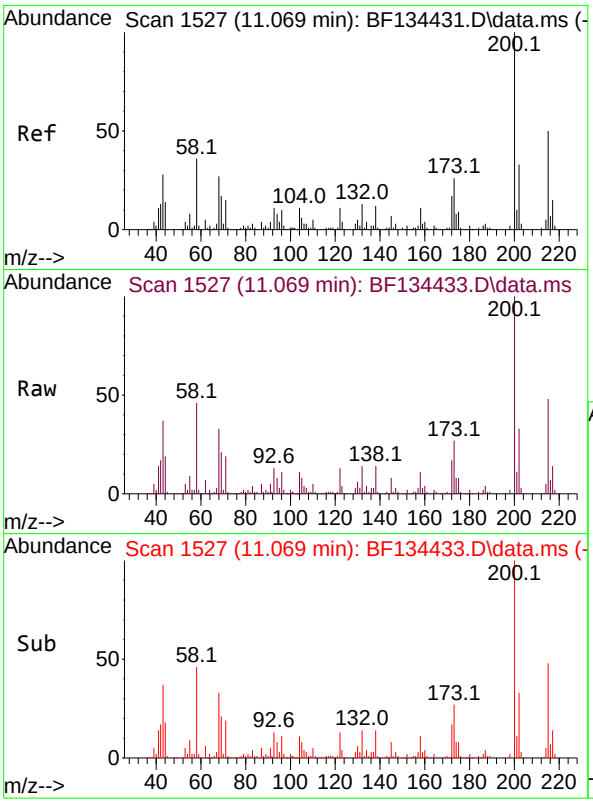


#68
Hexachlorobenzene
Concen: 58.911 ng
RT: 10.980 min Scan# 1512
Delta R.T. 0.006 min
Lab File: BF134433.D
Acq: 24 Jul 2023 17:10

Tgt Ion:284 Resp: 151755

Ion	Ratio	Lower	Upper
284	100		
142	24.6	26.5	39.7#
249	28.8	23.8	35.8

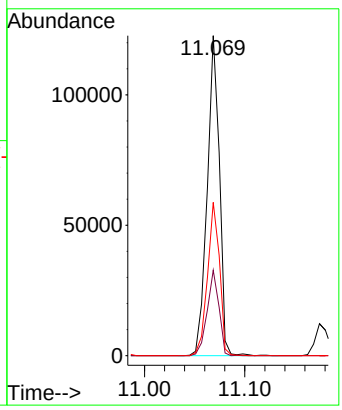




#69
Atrazine
Concen: 56.253 ng
RT: 11.069 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134433.D
Acq: 24 Jul 2023 17:10

Tgt Ion:200 Resp: 10418

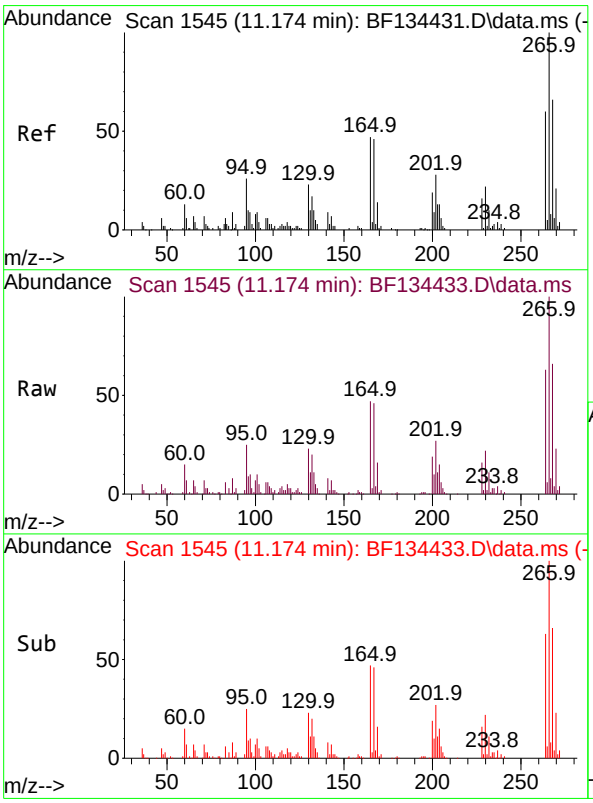
Ion	Ratio	Lower	Upper
200	100		
173	26.7	6.1	46.1
215	47.9	29.7	69.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

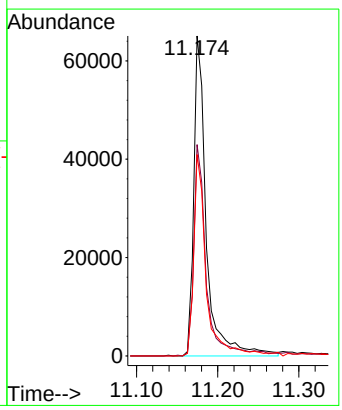
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

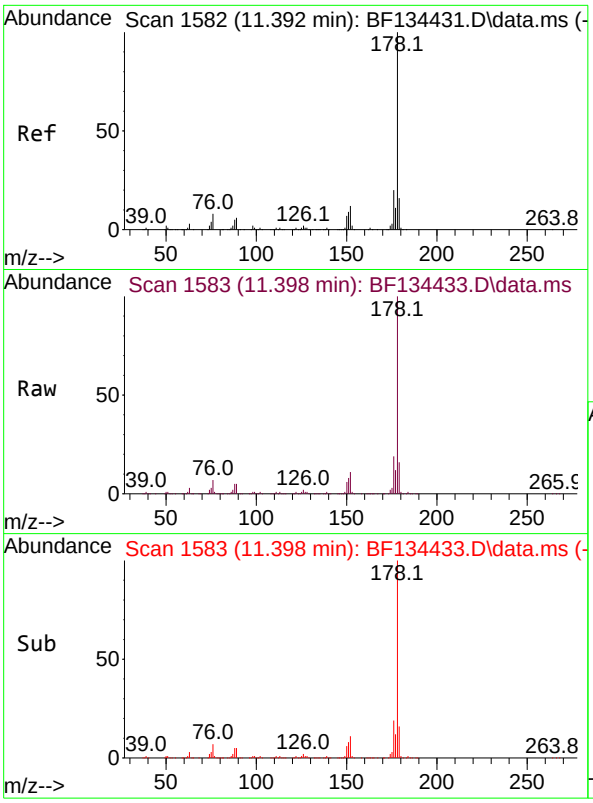


#70
Pentachlorophenol
Concen: 65.388 ng
RT: 11.174 min Scan# 1545
Delta R.T. 0.000 min
Lab File: BF134433.D
Acq: 24 Jul 2023 17:10

Tgt Ion:266 Resp: 70689

Ion	Ratio	Lower	Upper
266	100		
268	66.0	52.9	79.3
264	63.0	47.8	71.6

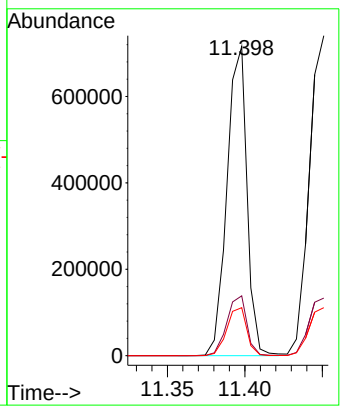




#71
Phenanthrene
Concen: 58.849 ng
RT: 11.398 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF134433.D
Acq: 24 Jul 2023 17:10

Tgt Ion:178 Resp: 64198

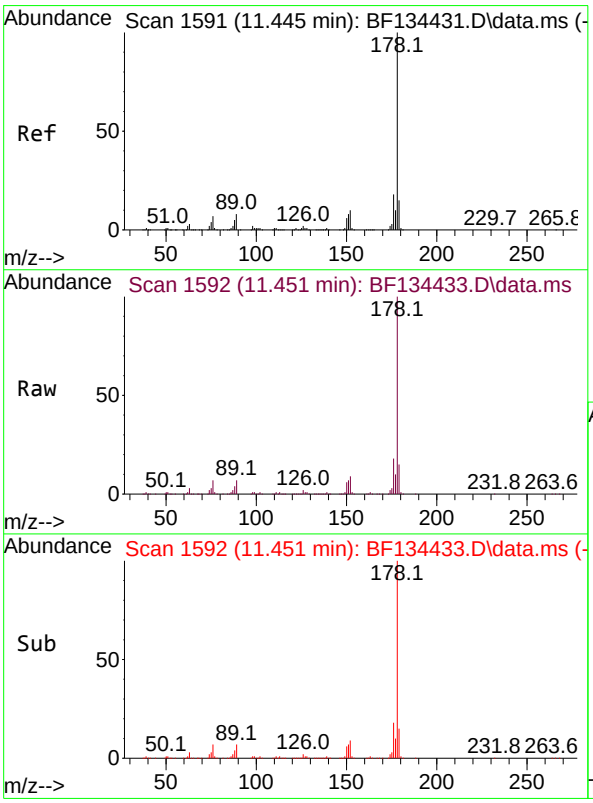
Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.8	23.6
179	15.5	12.7	19.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

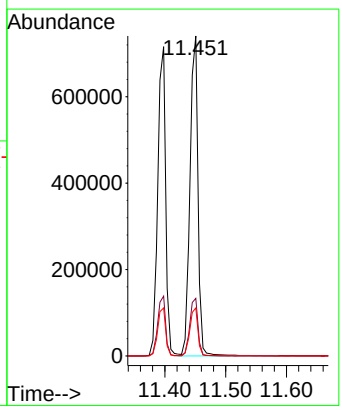
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

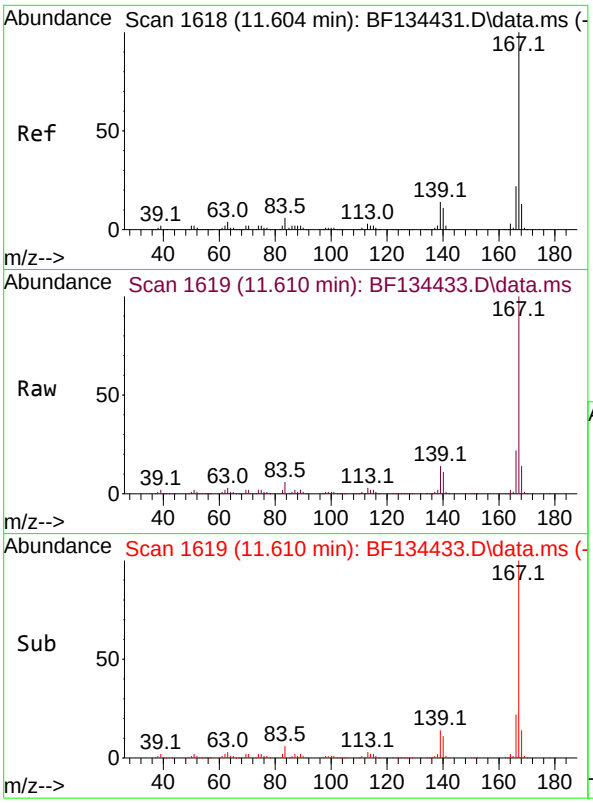


#72
Anthracene
Concen: 59.841 ng
RT: 11.451 min Scan# 1592
Delta R.T. 0.006 min
Lab File: BF134433.D
Acq: 24 Jul 2023 17:10

Tgt Ion:178 Resp: 673764

Ion	Ratio	Lower	Upper
178	100		
176	18.0	14.6	21.8
179	15.0	12.3	18.5

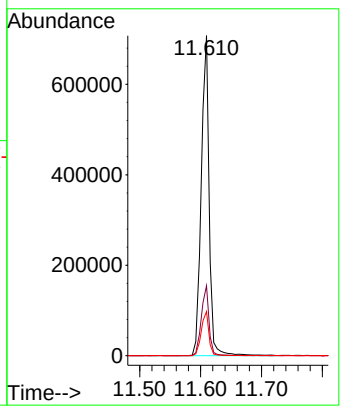




#73
Carbazole
Concen: 60.066 ng
RT: 11.610 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF134433.D
Acq: 24 Jul 2023 17:10

Tgt Ion:167 Resp: 63685

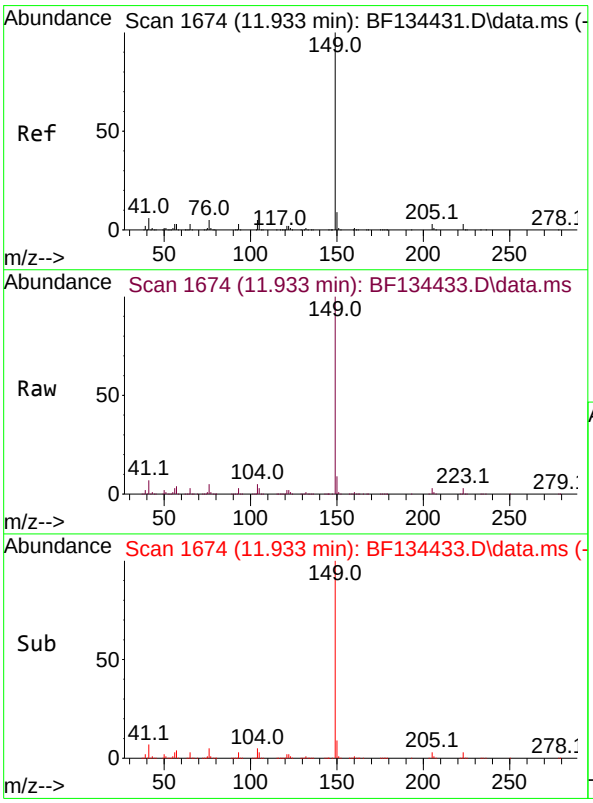
Ion	Ratio	Lower	Upper
167	100		
166	21.9	17.5	26.3
139	13.8	11.0	16.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

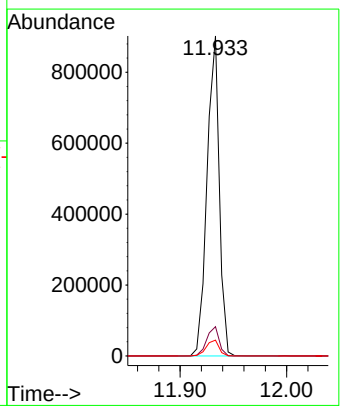
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

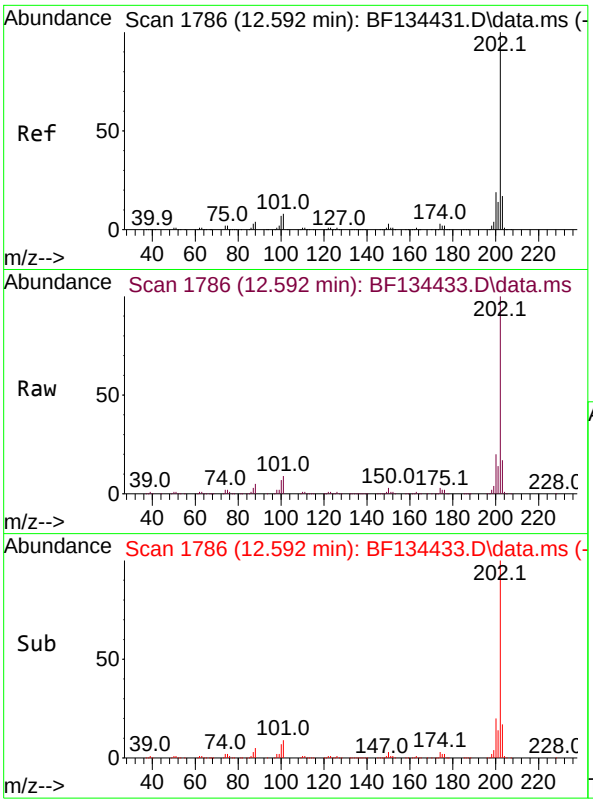


#74
Di-n-butylphthalate
Concen: 59.368 ng
RT: 11.933 min Scan# 1674
Delta R.T. 0.000 min
Lab File: BF134433.D
Acq: 24 Jul 2023 17:10

Tgt Ion:149 Resp: 722560

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.2	10.8
104	5.0	3.8	5.8

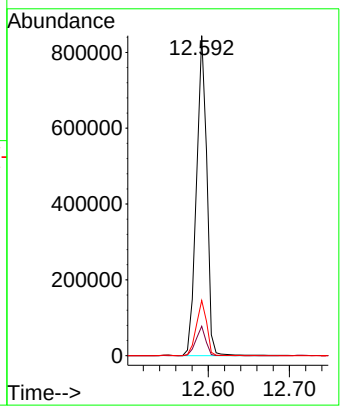




#75
Fluoranthene
Concen: 59.106 ng
RT: 12.592 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134433.D
Acq: 24 Jul 2023 17:10

Tgt Ion:202 Resp: 75145

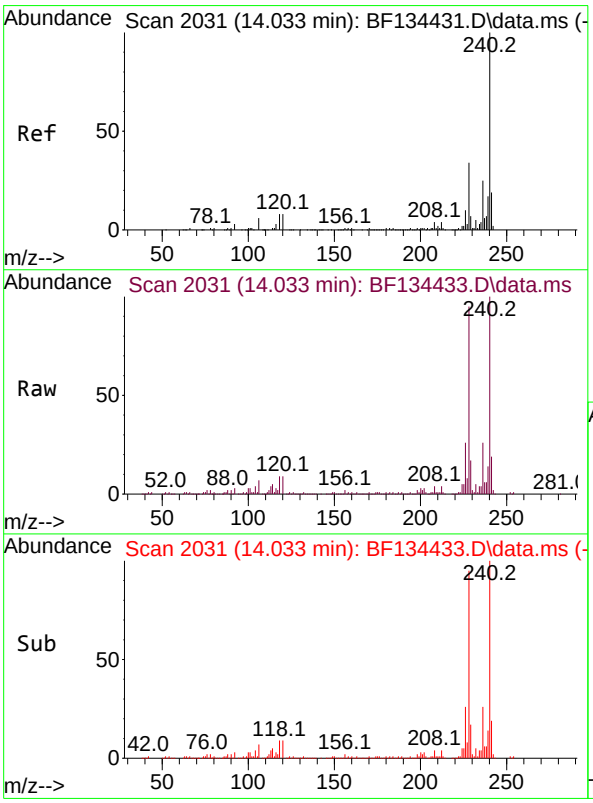
Ion	Ratio	Lower	Upper
202	100		
101	9.2	0.0	28.5
203	17.3	0.0	37.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

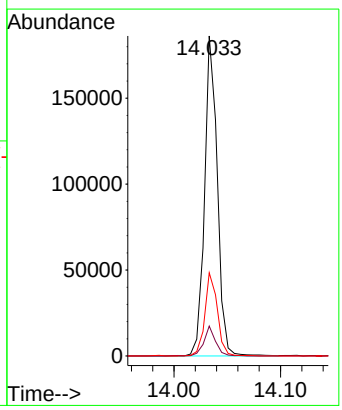
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

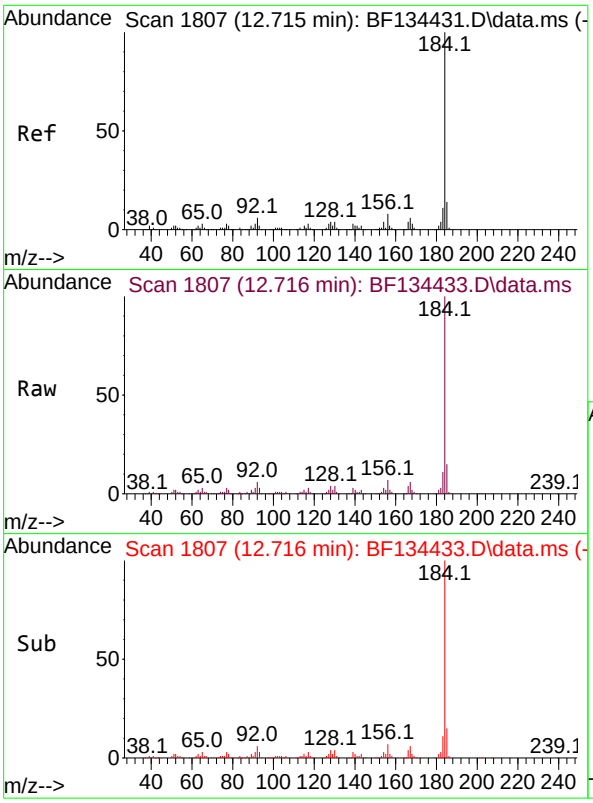


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.033 min Scan# 2031
Delta R.T. 0.000 min
Lab File: BF134433.D
Acq: 24 Jul 2023 17:10

Tgt Ion:240 Resp: 154977

Ion	Ratio	Lower	Upper
240	100		
120	9.4	6.6	10.0
236	26.0	20.2	30.2

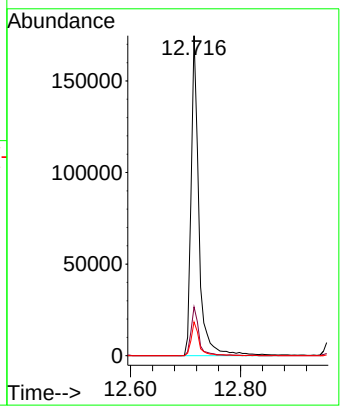




#77
Benzidine
Concen: 51.917 ng
RT: 12.716 min Scan# 1
Delta R.T. 0.001 min
Lab File: BF134433.D
Acq: 24 Jul 2023 17:10

Tgt Ion:184 Resp: 17179

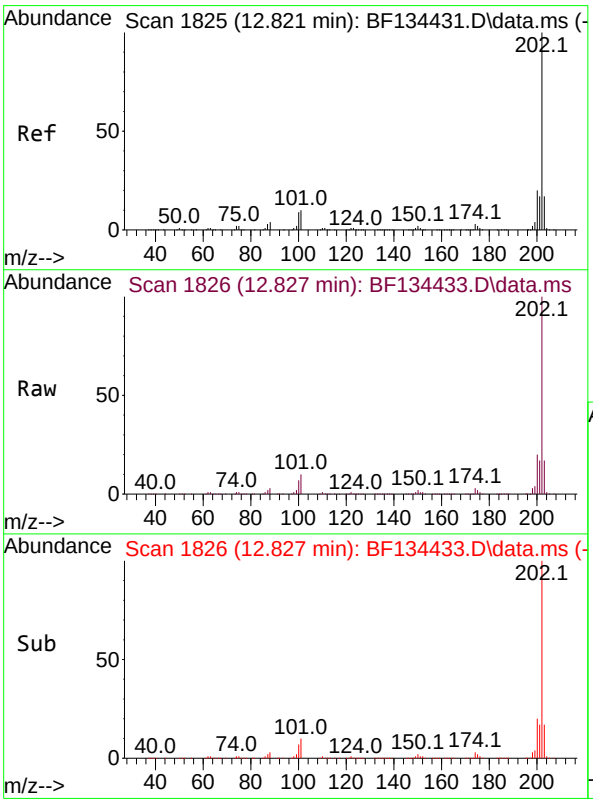
Ion	Ratio	Lower	Upper
184	100		
185	15.2	11.2	16.8
183	10.5	8.6	13.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

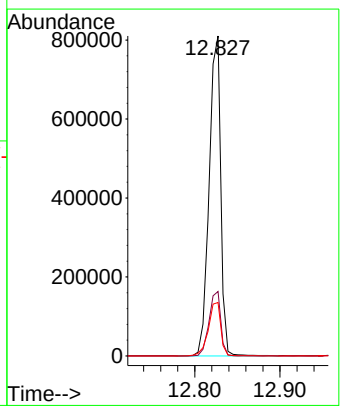
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

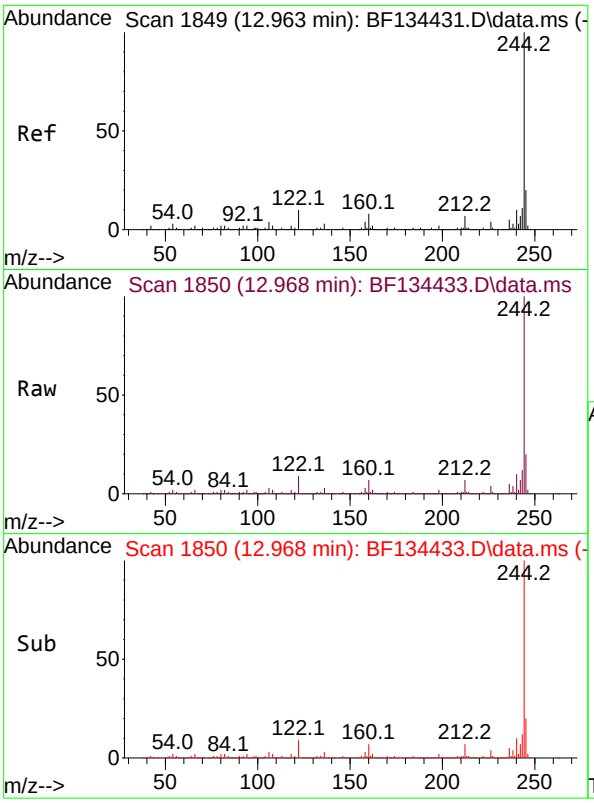


#78
Pyrene
Concen: 62.165 ng
RT: 12.827 min Scan# 1826
Delta R.T. 0.006 min
Lab File: BF134433.D
Acq: 24 Jul 2023 17:10

Tgt Ion:202 Resp: 766031

Ion	Ratio	Lower	Upper
202	100		
200	20.2	15.8	23.8
203	16.7	13.5	20.3

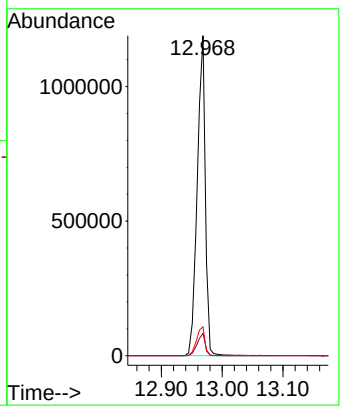




#79
Terphenyl-d14
Concen: 123.647 ng
RT: 12.968 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF134433.D
Acq: 24 Jul 2023 17:10

Tgt Ion:244 Resp: 109772

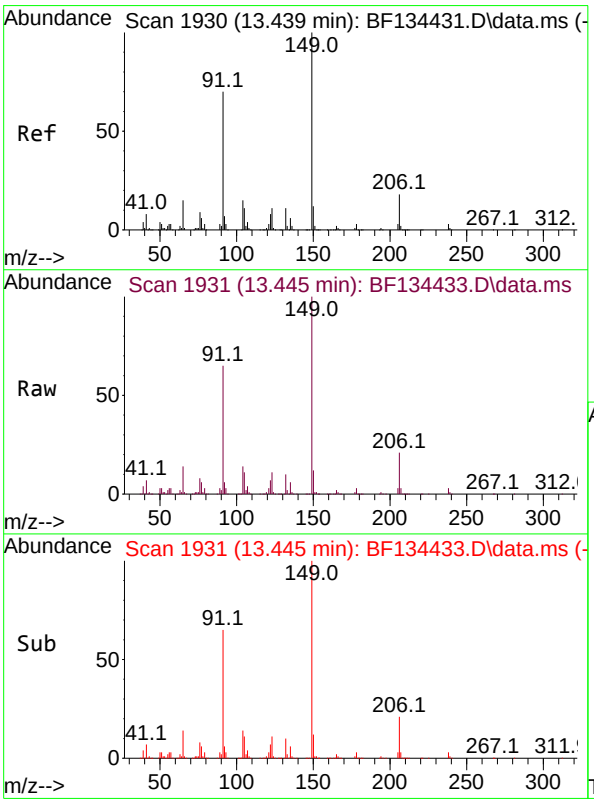
Ion	Ratio	Lower	Upper
244	100		
212	7.0	5.6	8.4
122	9.0	8.0	12.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

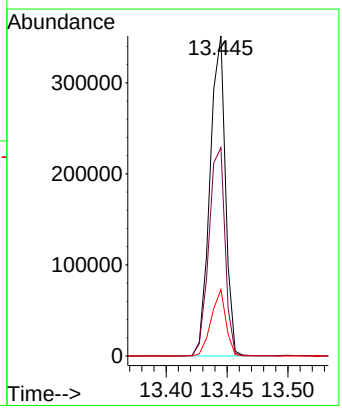
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

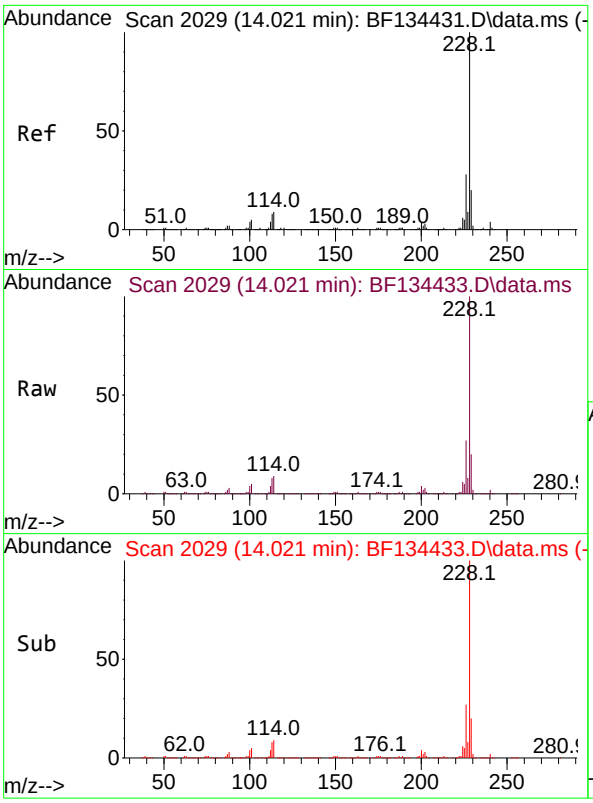


#80
Butylbenzylphthalate
Concen: 62.690 ng
RT: 13.445 min Scan# 1931
Delta R.T. 0.006 min
Lab File: BF134433.D
Acq: 24 Jul 2023 17:10

Tgt Ion:149 Resp: 309438

Ion	Ratio	Lower	Upper
149	100		
91	65.1	55.8	83.6
206	20.7	14.6	21.8

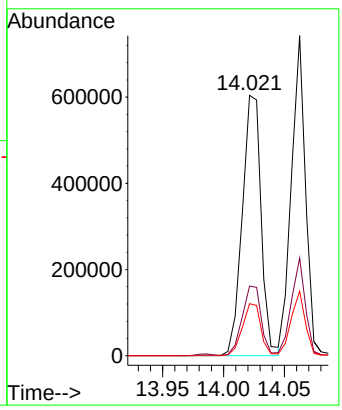




#81
Benzo(a)anthracene
Concen: 60.440 ng
RT: 14.021 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF134433.D
Acq: 24 Jul 2023 17:10

Tgt Ion:228 Resp: 65350

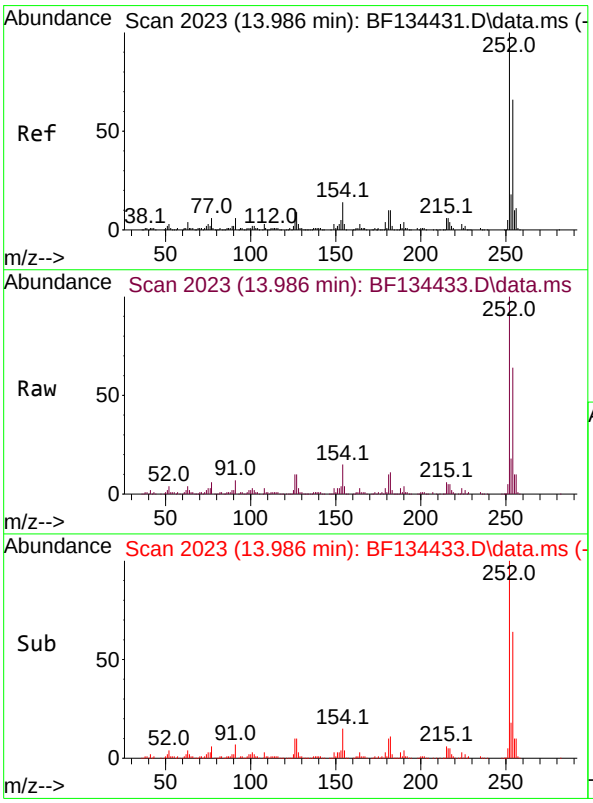
Ion	Ratio	Lower	Upper
228	100		
226	26.7	22.3	33.5
229	20.0	15.8	23.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

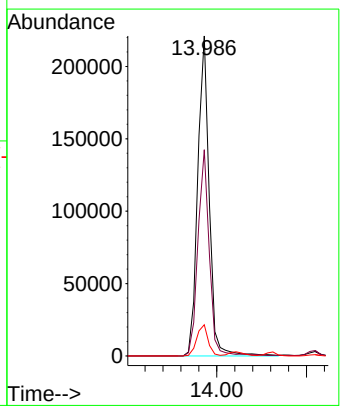
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

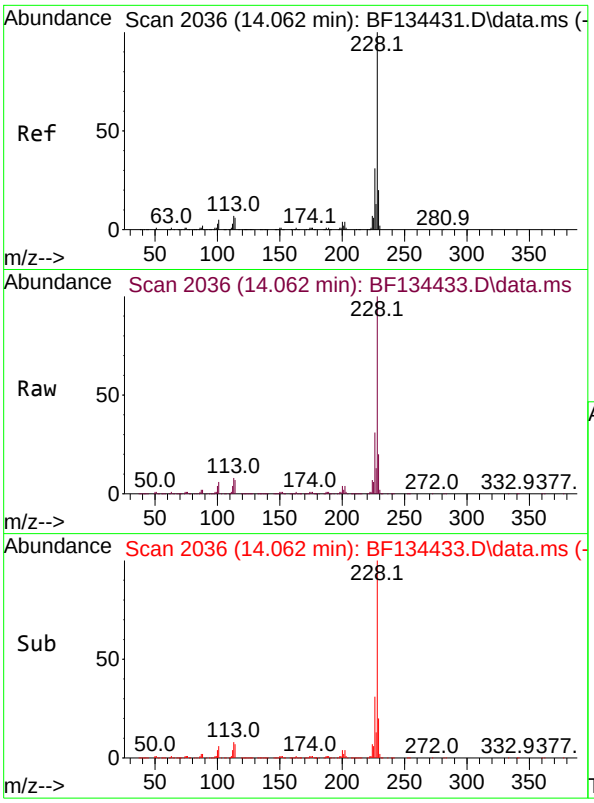


#82
3,3'-Dichlorobenzidine
Concen: 57.341 ng
RT: 13.986 min Scan# 2023
Delta R.T. 0.000 min
Lab File: BF134433.D
Acq: 24 Jul 2023 17:10

Tgt Ion:252 Resp: 196370

Ion	Ratio	Lower	Upper
252	100		
254	64.5	52.7	79.1
126	9.7	7.2	10.8





#83
Chrysene
Concen: 58.537 ng
RT: 14.062 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF134433.D
Acq: 24 Jul 2023 17:10

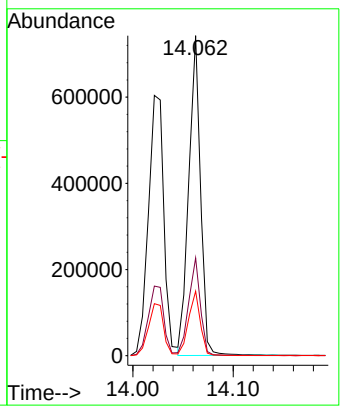
Tgt Ion:228 Resp: 60538

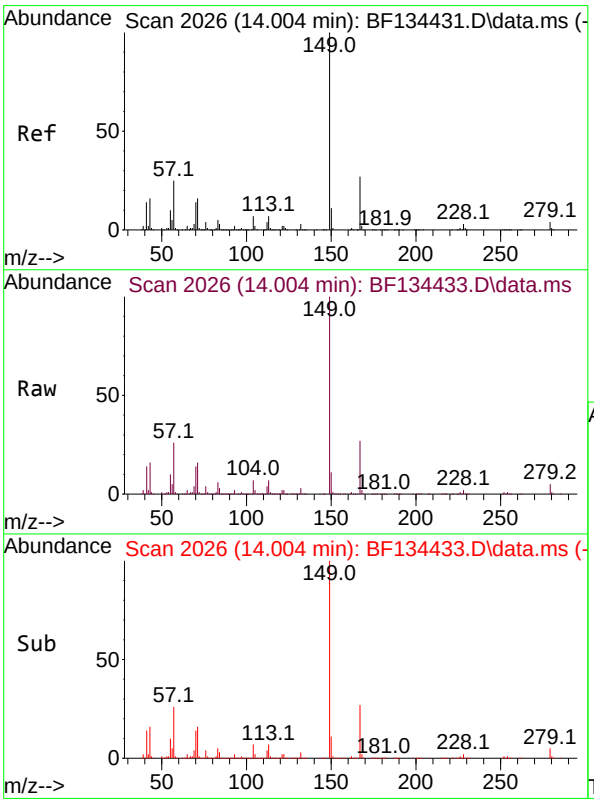
Ion	Ratio	Lower	Upper
228	100		
226	30.5	24.5	36.7
229	20.2	15.8	23.8

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

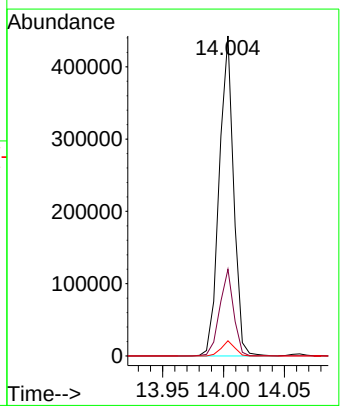


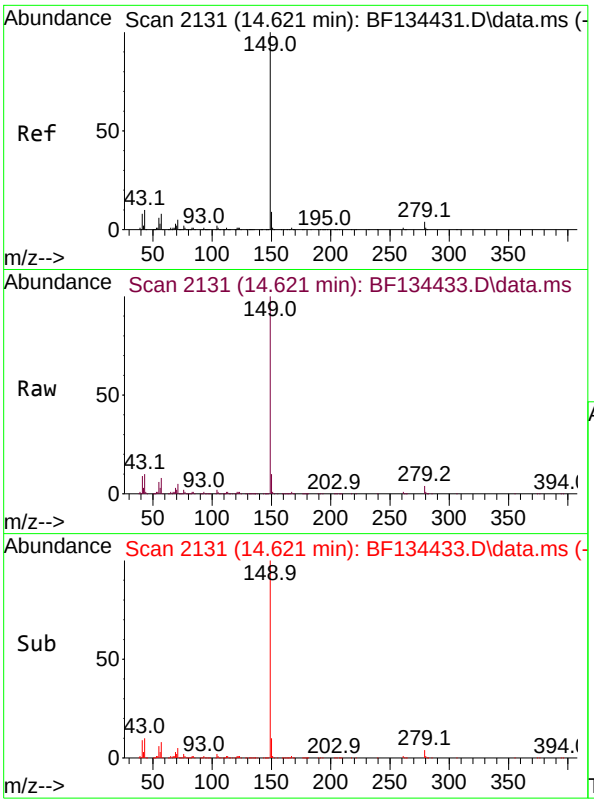


#84
Bis(2-ethylhexyl)phthalate
Concen: 61.016 ng
RT: 14.004 min Scan# 2026
Delta R.T. 0.000 min
Lab File: BF134433.D
Acq: 24 Jul 2023 17:10

Tgt Ion:149 Resp: 365894

Ion	Ratio	Lower	Upper
149	100		
167	27.1	21.6	32.4
279	4.8	3.5	5.3





#85
Di-n-octyl phthalate
Concen: 60.583 ng
RT: 14.621 min Scan# 21
Delta R.T. 0.000 min
Lab File: BF134433.D
Acq: 24 Jul 2023 17:10

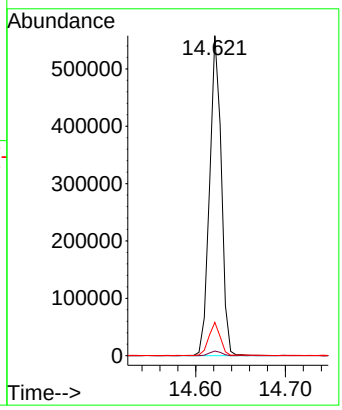
Tgt Ion:149 Resp: 50486

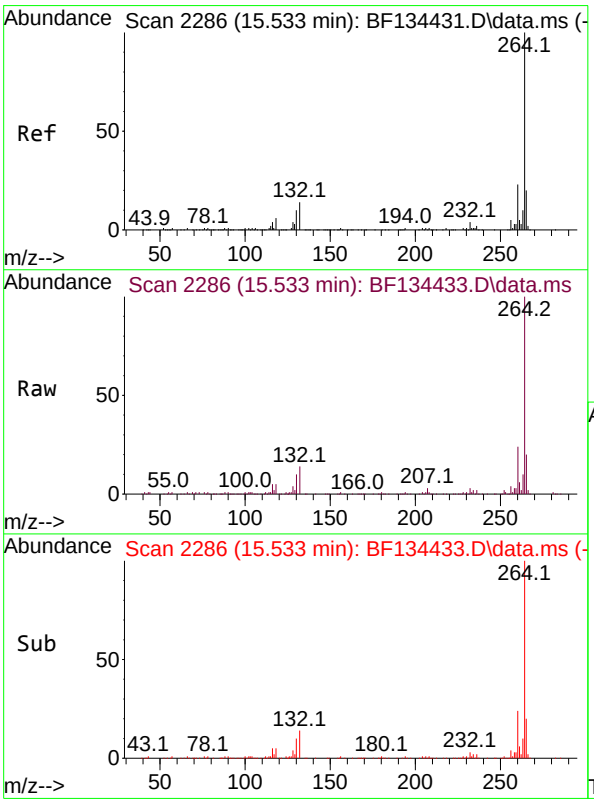
Ion	Ratio	Lower	Upper
149	100		
167	1.5	1.2	1.8
43	10.1	8.1	12.1

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

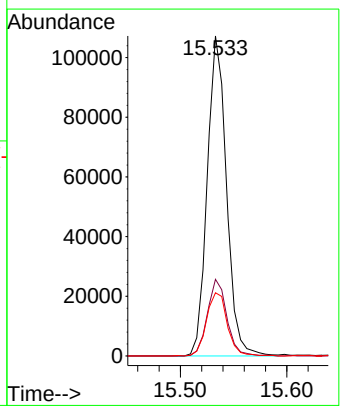


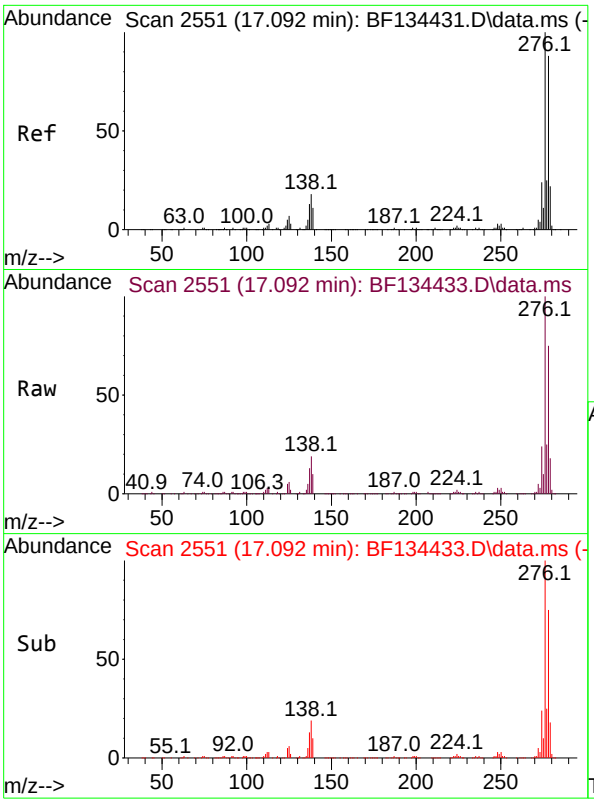


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.533 min Scan# 2286
Delta R.T. 0.000 min
Lab File: BF134433.D
Acq: 24 Jul 2023 17:10

Tgt Ion:264 Resp: 134882

Ion	Ratio	Lower	Upper
264	100		
260	24.0	18.4	27.6
265	19.8	15.8	23.8

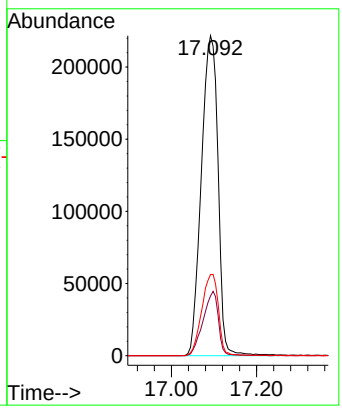




#87
Indeno(1,2,3-cd)pyrene
Concen: 68.435 ng
RT: 17.092 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF134433.D
Acq: 24 Jul 2023 17:10

Tgt Ion:276 Resp: 60304

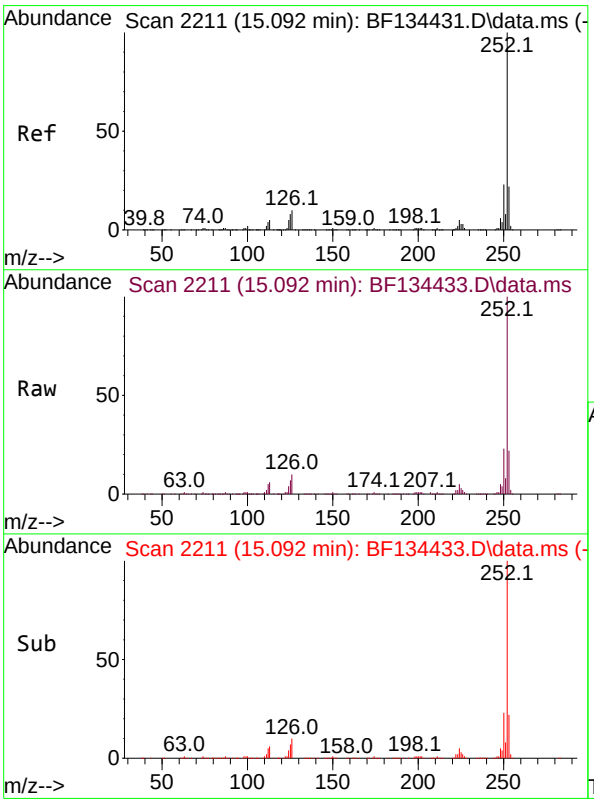
Ion	Ratio	Lower	Upper
276	100		
138	18.5	14.2	21.4
277	25.3	19.9	29.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

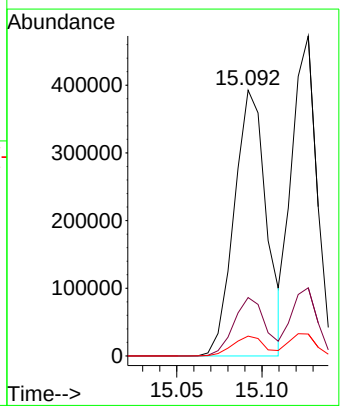
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

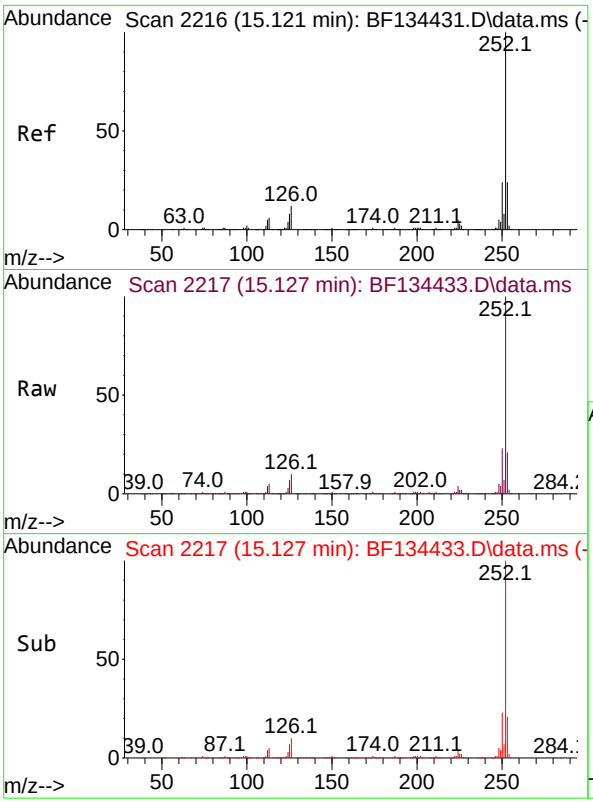


#88
Benzo(b)fluoranthene
Concen: 61.137 ng
RT: 15.092 min Scan# 2211
Delta R.T. 0.000 min
Lab File: BF134433.D
Acq: 24 Jul 2023 17:10

Tgt Ion:252 Resp: 515888

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.3	25.9
125	7.4	6.0	9.0

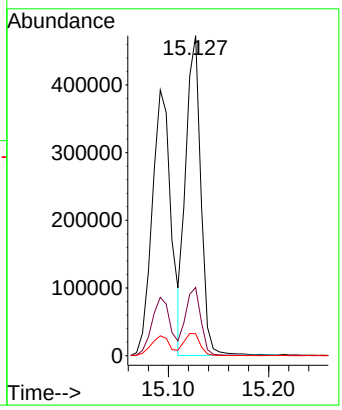




#89
Benzo(k)fluoranthene
Concen: 59.262 ng
RT: 15.127 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF134433.D
Acq: 24 Jul 2023 17:10

Tgt Ion:252 Resp: 49190

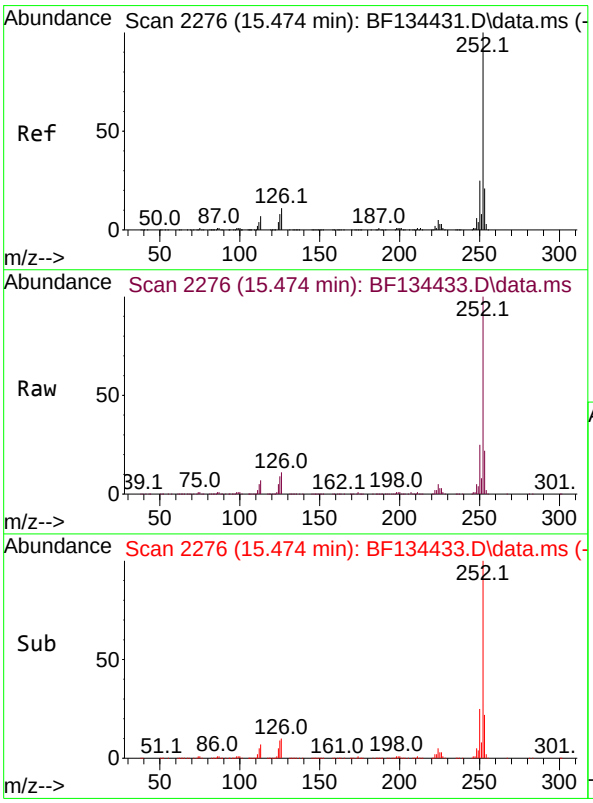
Ion	Ratio	Lower	Upper
252	100		
253	21.3	17.9	26.9
125	6.8	6.3	9.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

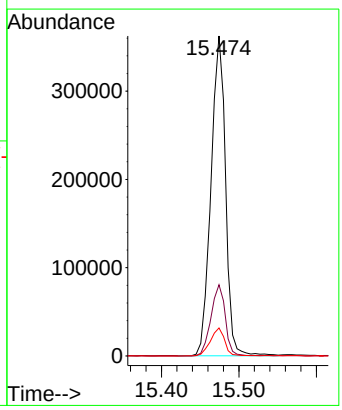
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

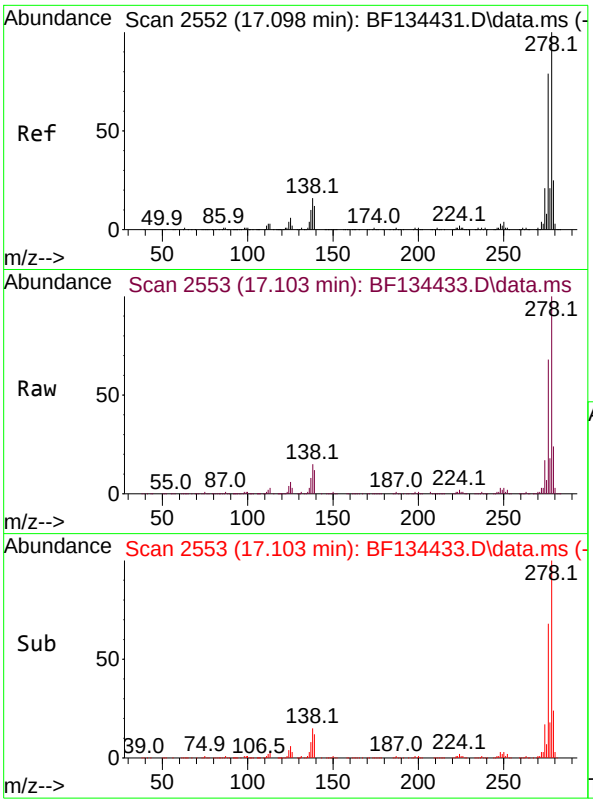


#90
Benzo(a)pyrene
Concen: 60.769 ng
RT: 15.474 min Scan# 2276
Delta R.T. 0.000 min
Lab File: BF134433.D
Acq: 24 Jul 2023 17:10

Tgt Ion:252 Resp: 473981

Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.0	25.4
125	8.8	6.2	9.4

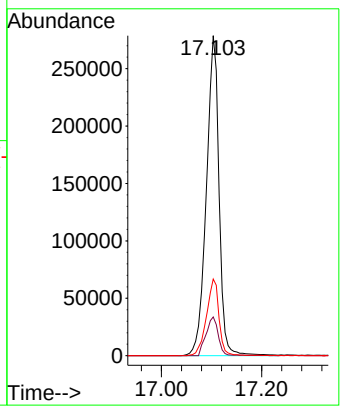




#91
Dibenzo(a,h)anthracene
Concen: 68.873 ng
RT: 17.103 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF134433.D
Acq: 24 Jul 2023 17:10

Tgt Ion:278 Resp: 49012

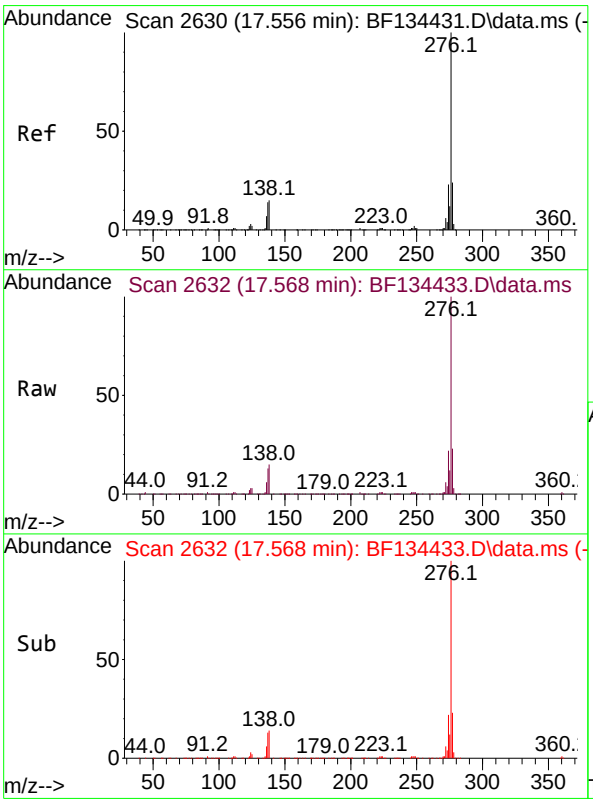
Ion	Ratio	Lower	Upper
278	100		
139	12.1	10.0	15.0
279	24.0	19.7	29.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

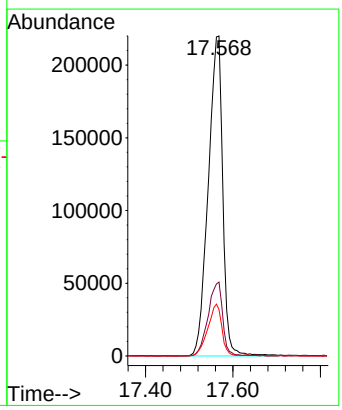
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023



#92
Benzo(g,h,i)perylene
Concen: 69.509 ng
RT: 17.568 min Scan# 2632
Delta R.T. 0.012 min
Lab File: BF134433.D
Acq: 24 Jul 2023 17:10

Tgt Ion:276 Resp: 507906

Ion	Ratio	Lower	Upper
276	100		
277	23.1	19.0	28.6
138	14.5	12.2	18.2



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF072423\
Data File : BF134434.D
Acq On : 24 Jul 2023 17:44
Operator : CG\JU
Sample : SSTDICC080
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 25 01:40:59 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF072423.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 25 01:30:14 2023
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.840	152	60329	20.000	ng		0.00
21) Naphthalene-d8	8.116	136	201078	20.000	ng		0.00
39) Acenaphthene-d10	9.875	164	98354	20.000	ng		0.00
64) Phenanthrene-d10	11.369	188	204149	20.000	ng		0.00
76) Chrysene-d12	14.039	240	143257	20.000	ng		0.00
86) Perylene-d12	15.533	264	133540	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.475	112	543209	148.765	ng		0.00
7) Phenol-d6	6.493	99	649004	145.069	ng		0.01
23) Nitrobenzene-d5	7.410	82	625058	157.275	ng		0.00
42) 2,4,6-Tribromophenol	10.675	330	219446	157.035	ng		0.00
45) 2-Fluorobiphenyl	9.198	172	1107722	147.855	ng		0.00
79) Terphenyl-d14	12.969	244	1332223	162.338	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.593	88	114219	73.746	ng		96
3) Pyridine	3.381	79	276156	79.568	ng		99
4) n-Nitrosodimethylamine	3.369	42	168807	82.162	ng		93
6) Aniline	6.510	93	380167	72.100	ng	#	84
8) 2-Chlorophenol	6.628	128	267171	72.224	ng		99
10) Phenol	6.504	94	339238	72.880	ng		86
11) bis(2-Chloroethyl)ether	6.581	93	239408	73.676	ng		98
12) 1,3-Dichlorobenzene	6.781	146	288227	72.458	ng		98
13) 1,4-Dichlorobenzene	6.857	146	293021	71.580	ng		99
14) 1,2-Dichlorobenzene	7.010	146	273676	71.170	ng		98
15) Benzyl Alcohol	6.987	79	254561	74.424	ng		98
16) 2,2'-oxybis(1-Chloropr...	7.116	45	344599	72.012	ng		99
17) 2-Methylphenol	7.098	107	234952	71.217	ng		98
18) Hexachloroethane	7.345	117	113050	71.883	ng		93
19) n-Nitroso-di-n-propyla...	7.257	70	196854	70.683	ng		98
20) 3+4-Methylphenols	7.257	107	300369	71.111	ng		89
22) Acetophenone	7.257	105	377691	75.526	ng		96
24) Nitrobenzene	7.428	77	308084	77.946	ng		97
25) Isophorone	7.663	82	512342	77.351	ng		99
26) 2-Nitrophenol	7.739	139	143535	78.956	ng		100
27) 2,4-Dimethylphenol	7.781	122	224722	78.332	ng		93
28) bis(2-Chloroethoxy)met...	7.869	93	284022	77.038	ng		99
29) 2,4-Dichlorophenol	7.981	162	220643	76.937	ng		95
30) 1,2,4-Trichlorobenzene	8.057	180	235529	76.137	ng		98
31) Naphthalene	8.139	128	765914	76.535	ng		99
32) Benzoic acid	7.934	122	172215m	90.907	ng		
33) 4-Chloroaniline	8.198	127	320766	77.544	ng		99
34) Hexachlorobutadiene	8.251	225	155509	75.039	ng		97
35) Caprolactam	8.592	113	69217m	79.085	ng		
36) 4-Chloro-3-methylphenol	8.681	107	256947	77.650	ng		99
37) 2-Methylnaphthalene	8.834	142	523403	75.274	ng		99
38) 1-Methylnaphthalene	8.928	142	483304	74.924	ng		96
40) 1,2,4,5-Tetrachloroben...	8.998	216	243736	78.200	ng		99
41) Hexachlorocyclopentadiene	8.975	237	84958	79.733	ng		93
43) 2,4,6-Trichlorophenol	9.110	196	156391	78.214	ng		94
44) 2,4,5-Trichlorophenol	9.157	196	184317	79.119	ng		95

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF072423\
Data File : BF134434.D
Acq On : 24 Jul 2023 17:44
Operator : CG\JU
Sample : SSTDICC080
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

Quant Time: Jul 25 01:40:59 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF072423.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 25 01:30:14 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) 1,1'-Biphenyl	9.298	154	619949	76.478	ng		100
47) 2-Chloronaphthalene	9.322	162	460211	77.008	ng		98
48) 2-Nitroaniline	9.428	65	175260	81.431	ng		99
49) Acenaphthylene	9.739	152	769006	76.169	ng		99
50) Dimethylphthalate	9.604	163	571498	78.384	ng		99
51) 2,6-Dinitrotoluene	9.675	165	126337	78.970	ng	#	81
52) Acenaphthene	9.910	154	457844	76.767	ng		99
53) 3-Nitroaniline	9.845	138	143385	78.172	ng		90
54) 2,4-Dinitrophenol	9.957	184	67928	80.855	ng		98
55) Dibenzofuran	10.086	168	690558	75.230	ng		100
56) 4-Nitrophenol	10.016	139	85454	87.363	ng		91
57) 2,4-Dinitrotoluene	10.081	165	168360	78.352	ng		86
58) Fluorene	10.428	166	568078	76.713	ng		99
59) 2,3,4,6-Tetrachlorophenol	10.204	232	141994m	79.033	ng		
60) Diethylphthalate	10.304	149	581454	77.028	ng		99
61) 4-Chlorophenyl-phenyle...	10.422	204	268797	75.986	ng		97
62) 4-Nitroaniline	10.469	138	153086m	81.379	ng		
63) Azobenzene	10.581	77	541480	77.931	ng		95
65) 4,6-Dinitro-2-methylph...	10.498	198	98264	83.911	ng		93
66) n-Nitrosodiphenylamine	10.545	169	490582	75.532	ng		98
67) 4-Bromophenyl-phenylether	10.910	248	168689	75.417	ng		93
68) Hexachlorobenzene	10.980	284	190112	75.478	ng		97
69) Atrazine	11.075	200	127365	70.334	ng		99
70) Pentachlorophenol	11.180	266	91483	86.546	ng		96
71) Phenanthrene	11.398	178	800783	75.075	ng		99
72) Anthracene	11.451	178	831898	75.565	ng		98
73) Carbazole	11.610	167	787077	75.922	ng		99
74) Di-n-butylphthalate	11.933	149	889103	74.712	ng		99
75) Fluoranthene	12.592	202	927046	74.574	ng		98
77) Benzidine	12.716	184	225269	73.646	ng	#	95
78) Pyrene	12.827	202	942536	82.746	ng		99
80) Butylbenzylphthalate	13.445	149	364687	79.927	ng		95
81) Benzo(a)anthracene	14.027	228	761778	76.218	ng		99
82) 3,3'-Dichlorobenzidine	13.986	252	226377	71.511	ng		98
83) Chrysene	14.063	228	723420	75.673	ng		100
84) Bis(2-ethylhexyl)phtha...	14.004	149	421145	75.975	ng		100
85) Di-n-octyl phthalate	14.621	149	595691	77.330	ng		100
87) Indeno(1,2,3-cd)pyrene	17.098	276	789114	90.451	ng		99
88) Benzo(b)fluoranthene	15.098	252	617624	73.929	ng		99
89) Benzo(k)fluoranthene	15.127	252	618702	75.287	ng		99
90) Benzo(a)pyrene	15.480	252	597926	77.431	ng		100
91) Dibenzo(a,h)anthracene	17.109	278	639384	90.750	ng		99
92) Benzo(g,h,i)perylene	17.574	276	664004	91.785	ng		99

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

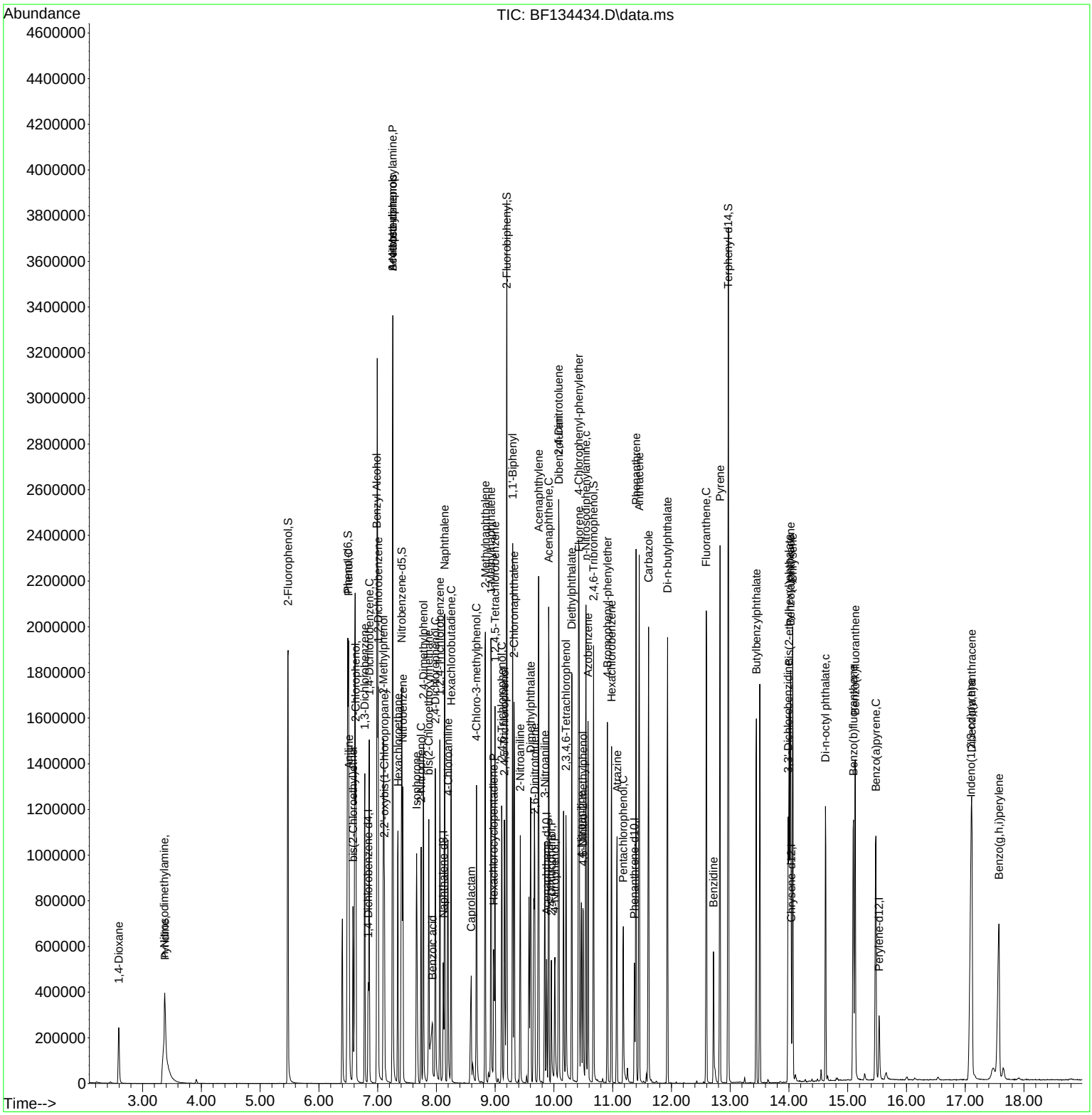
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF072423\
Data File : BF134434.D
Acq On : 24 Jul 2023 17:44
Operator : CG\JU
Sample : SSTDICC080
Misc :
ALS Vial : 10 Sample Multiplier: 1

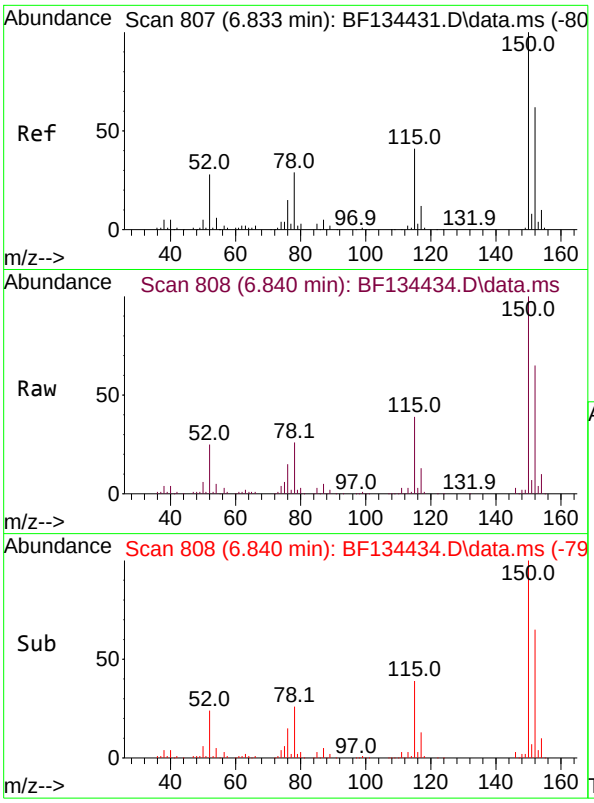
Quant Time: Jul 25 01:40:59 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF072423.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 25 01:30:14 2023
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

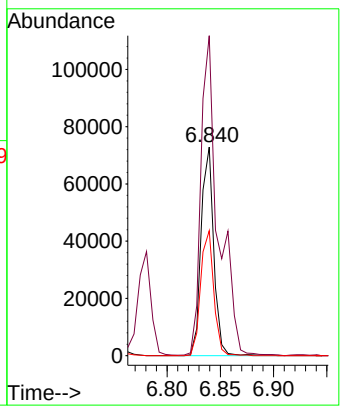




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.840 min Scan# 8
Delta R.T. 0.007 min
Lab File: BF134434.D
Acq: 24 Jul 2023 17:44

Tgt Ion:152 Resp: 6032

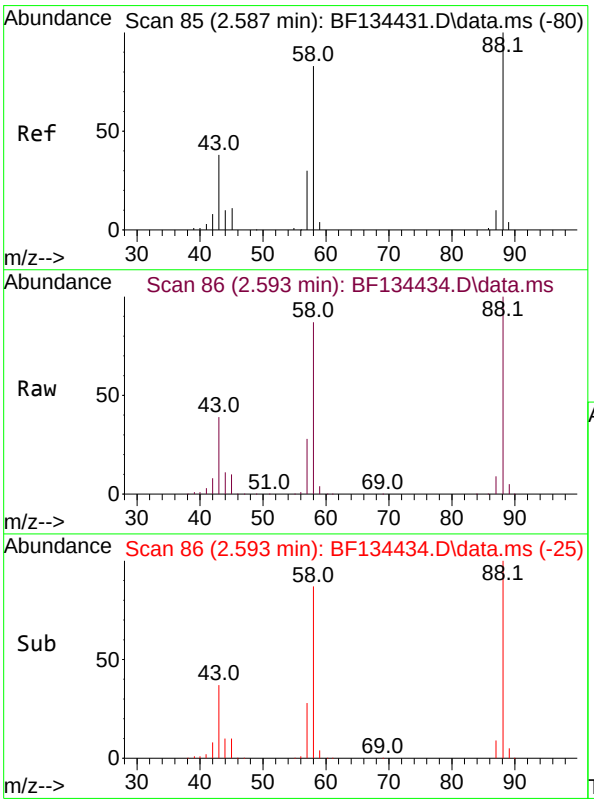
Ion	Ratio	Lower	Upper
152	100		
150	153.4	128.3	192.5
115	59.9	52.4	78.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

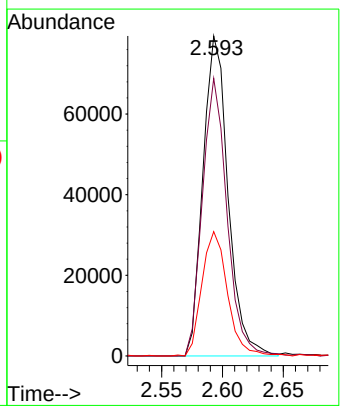
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

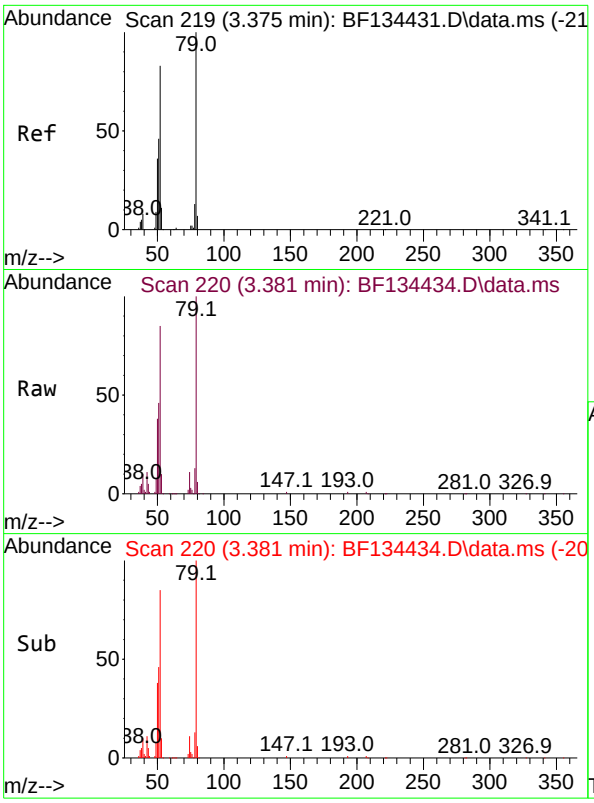


#2
1,4-Dioxane
Concen: 73.746 ng
RT: 2.593 min Scan# 86
Delta R.T. 0.006 min
Lab File: BF134434.D
Acq: 24 Jul 2023 17:44

Tgt Ion: 88 Resp: 114219

Ion	Ratio	Lower	Upper
88	100		
58	84.8	65.1	97.7
43	39.6	30.3	45.5

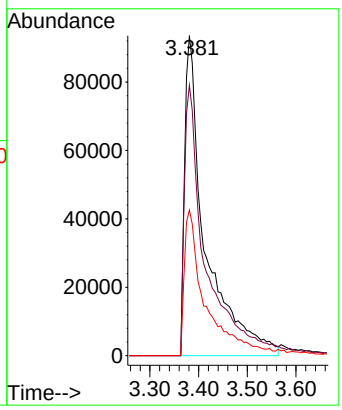




#3
Pyridine
Concen: 79.568 ng
RT: 3.381 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF134434.D
Acq: 24 Jul 2023 17:44

Tgt Ion: 79 Resp: 27615

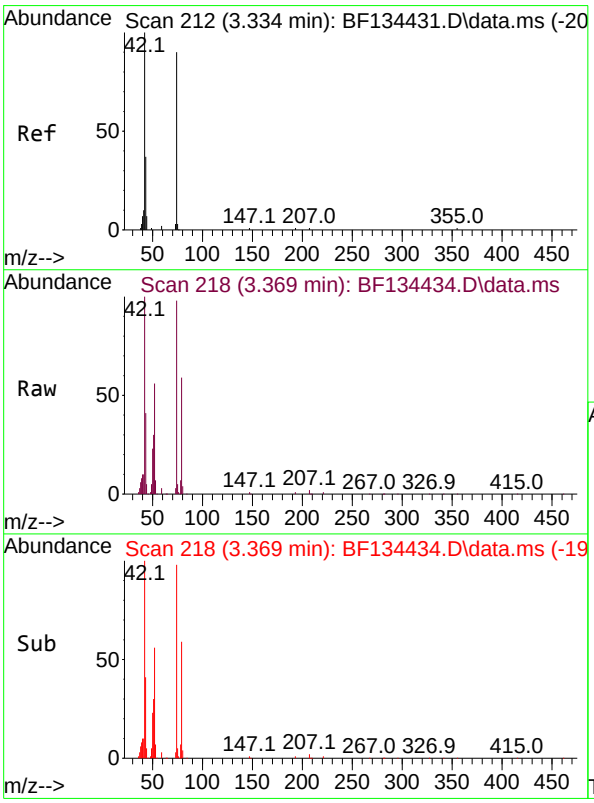
Ion	Ratio	Lower	Upper
79	100		
52	84.6	66.6	100.0
51	45.5	36.5	54.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

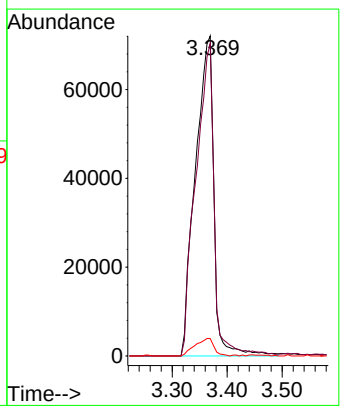
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

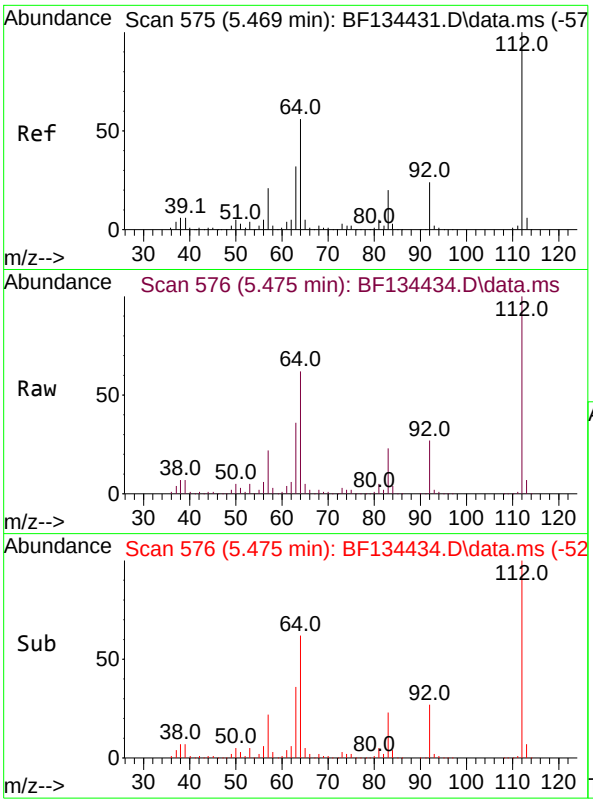


#4
n-Nitrosodimethylamine
Concen: 82.162 ng
RT: 3.369 min Scan# 218
Delta R.T. 0.035 min
Lab File: BF134434.D
Acq: 24 Jul 2023 17:44

Tgt Ion: 42 Resp: 168807

Ion	Ratio	Lower	Upper
42	100		
74	97.6	72.2	108.4
44	5.5	5.4	8.0

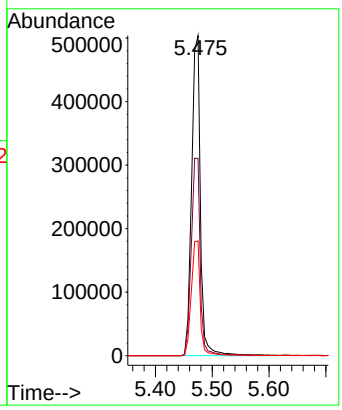




#5
2-Fluorophenol
Concen: 148.765 ng
RT: 5.475 min Scan# 5
Delta R.T. 0.006 min
Lab File: BF134434.D
Acq: 24 Jul 2023 17:44

Tgt Ion:112 Resp: 54320

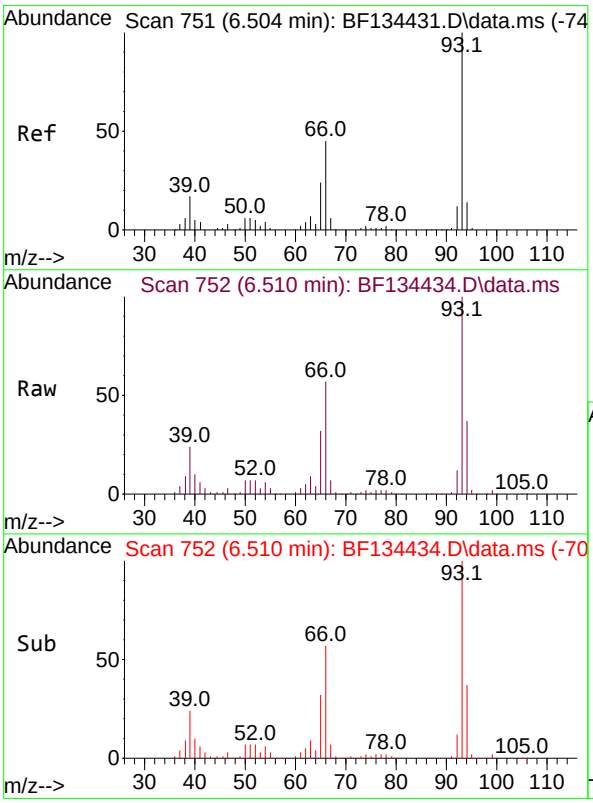
Ion	Ratio	Lower	Upper
112	100		
64	61.7	44.9	67.3
63	35.8	25.4	38.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

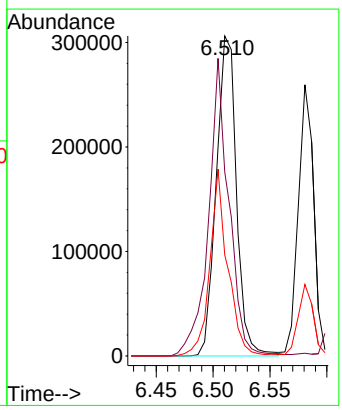
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

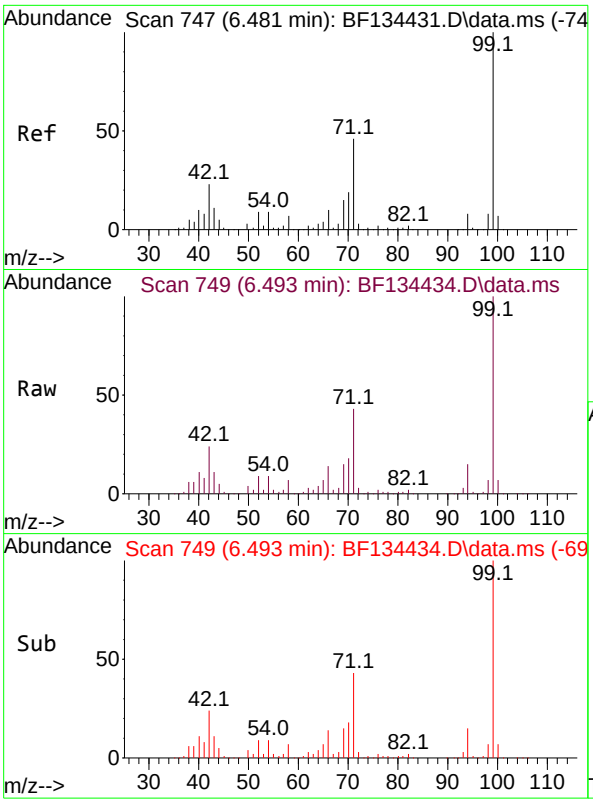


#6
Aniline
Concen: 72.100 ng
RT: 6.510 min Scan# 752
Delta R.T. 0.006 min
Lab File: BF134434.D
Acq: 24 Jul 2023 17:44

Tgt Ion: 93 Resp: 380167

Ion	Ratio	Lower	Upper
93	100		
66	57.4	36.8	55.2#
65	31.5	19.4	29.0#

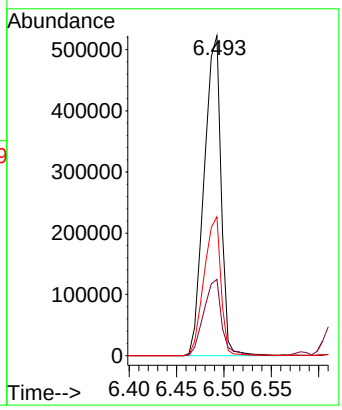




#7
Phenol-d6
Concen: 145.069 ng
RT: 6.493 min Scan# 7
Delta R.T. 0.012 min
Lab File: BF134434.D
Acq: 24 Jul 2023 17:44

Tgt Ion: 99 Resp: 64900

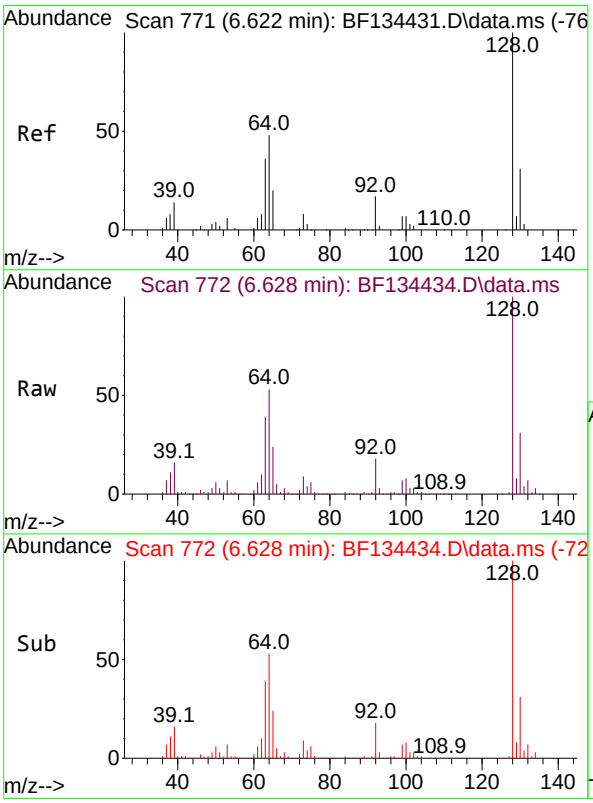
Ion	Ratio	Lower	Upper
99	100		
42	23.8	18.7	28.1
71	43.4	36.4	54.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

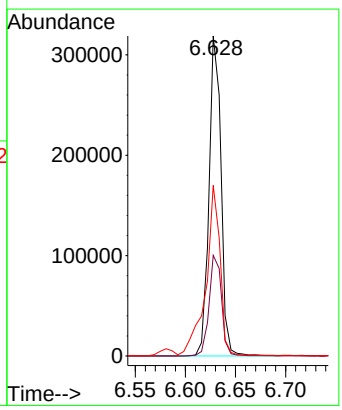
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

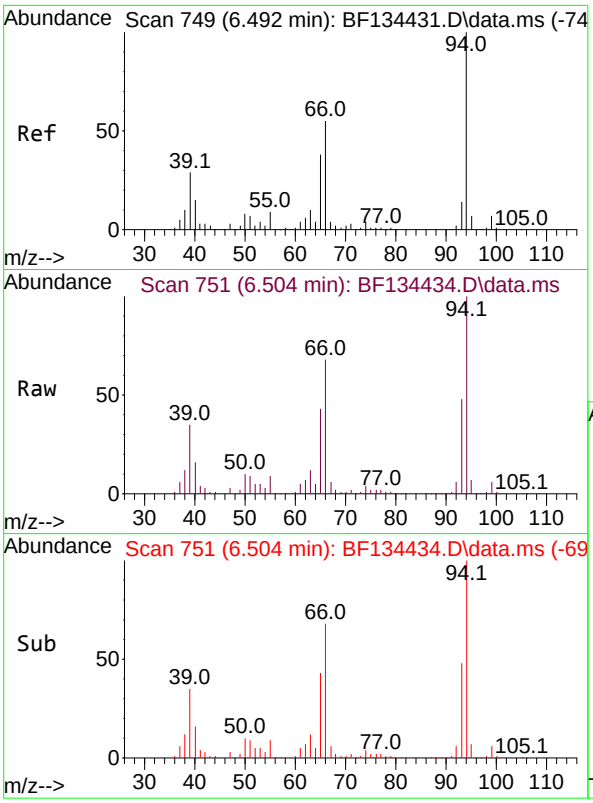


#8
2-Chlorophenol
Concen: 72.224 ng
RT: 6.628 min Scan# 772
Delta R.T. 0.006 min
Lab File: BF134434.D
Acq: 24 Jul 2023 17:44

Tgt Ion:128 Resp: 267171

Ion	Ratio	Lower	Upper
128	100		
130	31.4	11.1	51.1
64	53.3	31.9	71.9

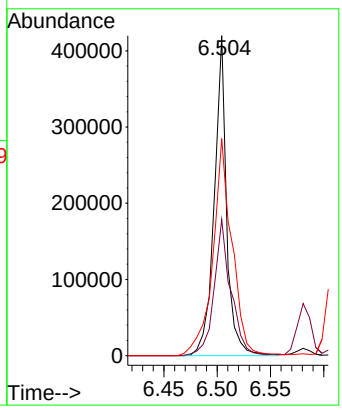




#10
Phenol
Concen: 72.880 ng
RT: 6.504 min Scan# 7
Delta R.T. 0.012 min
Lab File: BF134434.D
Acq: 24 Jul 2023 17:44

Tgt Ion: 94 Resp: 33923

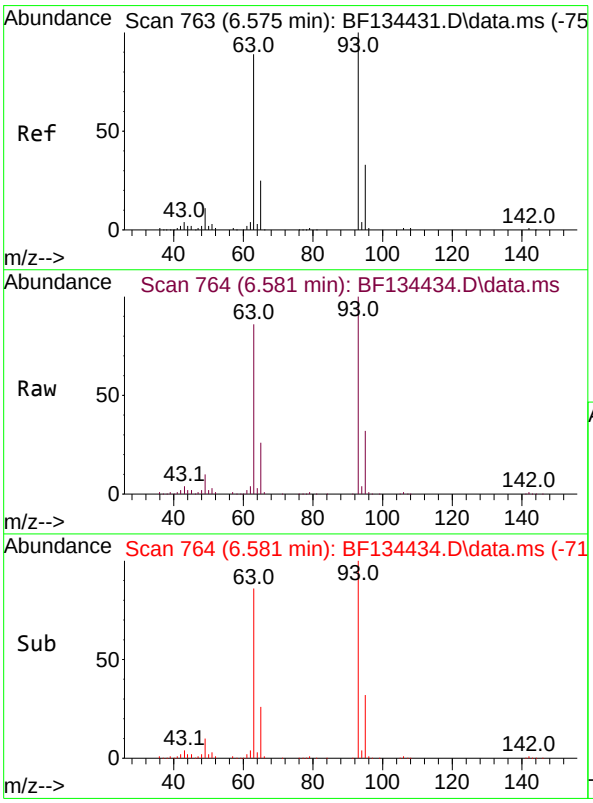
Ion	Ratio	Lower	Upper
94	100		
65	42.6	17.8	57.8
66	67.9	35.2	75.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

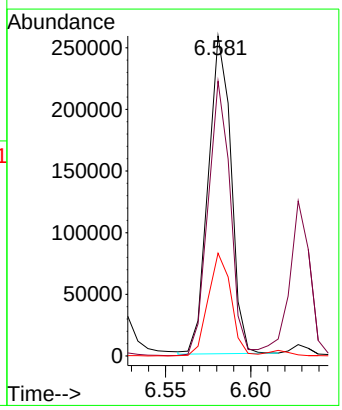
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

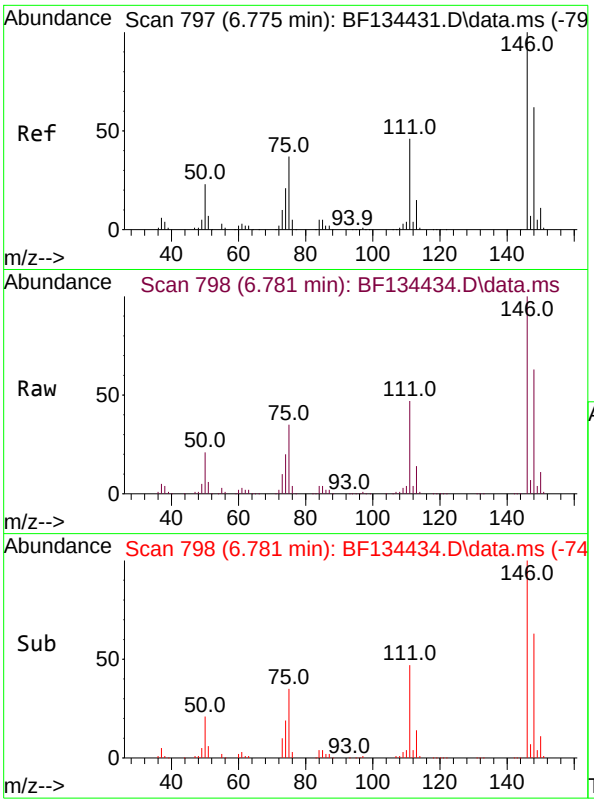


#11
bis(2-Chloroethyl)ether
Concen: 73.676 ng
RT: 6.581 min Scan# 764
Delta R.T. 0.006 min
Lab File: BF134434.D
Acq: 24 Jul 2023 17:44

Tgt Ion: 93 Resp: 239408

Ion	Ratio	Lower	Upper
93	100		
63	85.9	68.4	108.4
95	32.1	12.4	52.4

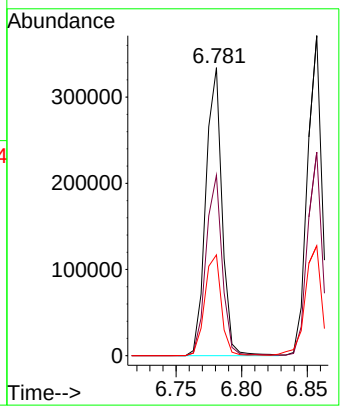




#12
1,3-Dichlorobenzene
Concen: 72.458 ng
RT: 6.781 min Scan# 7
Delta R.T. 0.006 min
Lab File: BF134434.D
Acq: 24 Jul 2023 17:44

Tgt Ion:146 Resp: 28822

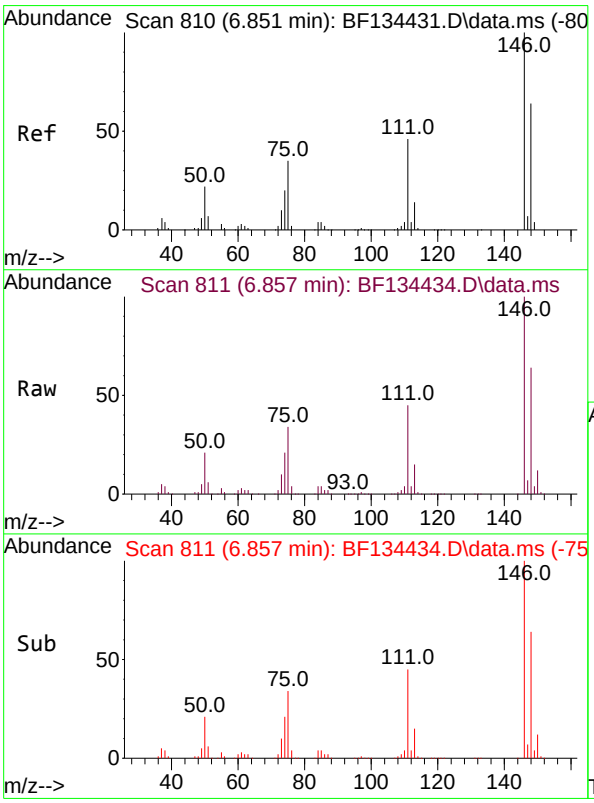
Ion	Ratio	Lower	Upper
146	100		
148	62.7	49.7	74.5
75	35.0	29.5	44.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

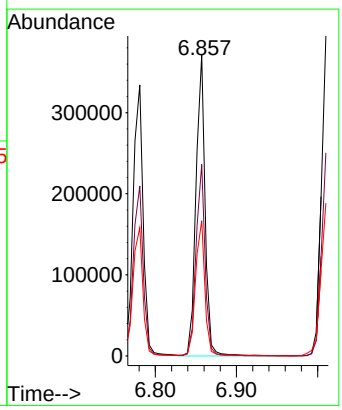
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

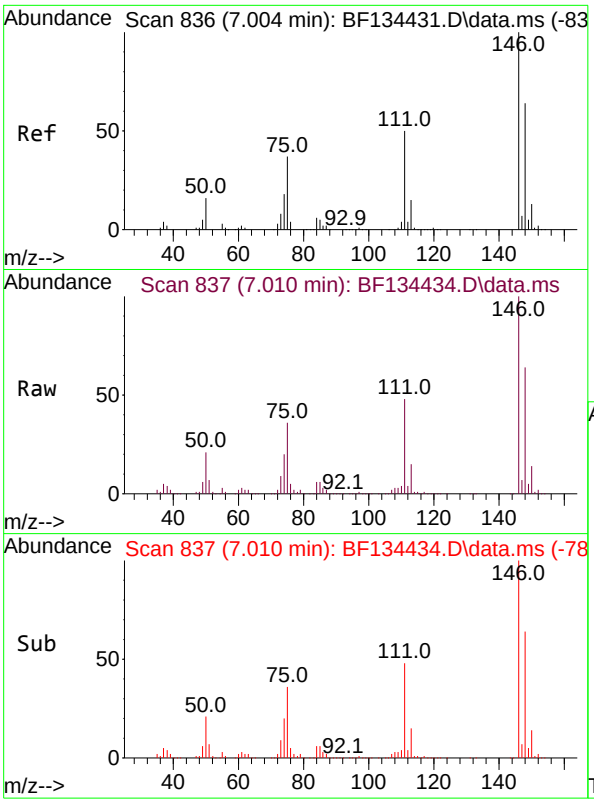


#13
1,4-Dichlorobenzene
Concen: 71.580 ng
RT: 6.857 min Scan# 811
Delta R.T. 0.006 min
Lab File: BF134434.D
Acq: 24 Jul 2023 17:44

Tgt Ion:146 Resp: 293021

Ion	Ratio	Lower	Upper
146	100		
148	63.6	51.3	76.9
111	44.9	36.6	55.0

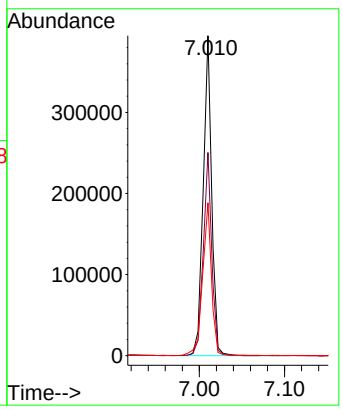




#14
1,2-Dichlorobenzene
Concen: 71.170 ng
RT: 7.010 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF134434.D
Acq: 24 Jul 2023 17:44

Tgt Ion:146 Resp: 27367

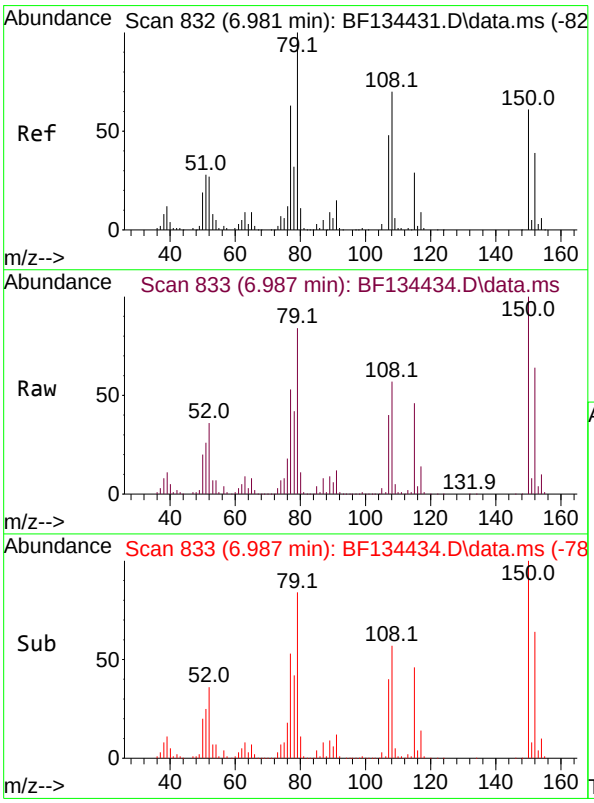
Ion	Ratio	Lower	Upper
146	100		
148	63.5	51.2	76.8
111	47.8	39.9	59.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

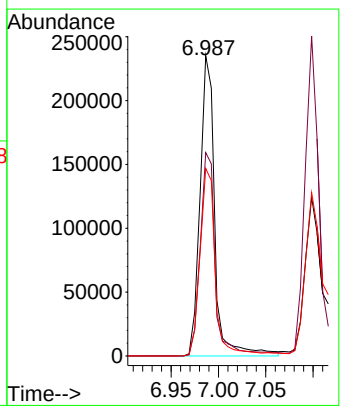
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

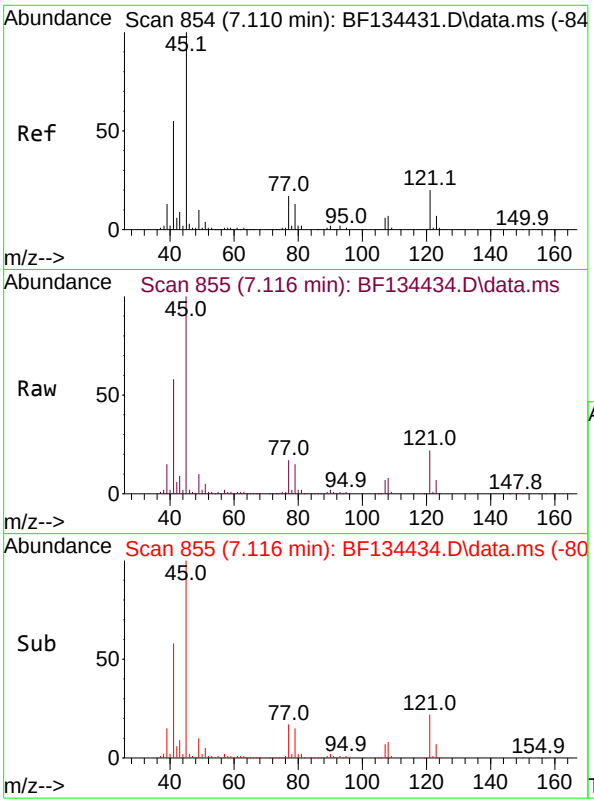


#15
Benzyl Alcohol
Concen: 74.424 ng
RT: 6.987 min Scan# 833
Delta R.T. 0.006 min
Lab File: BF134434.D
Acq: 24 Jul 2023 17:44

Tgt Ion: 79 Resp: 254561

Ion	Ratio	Lower	Upper
79	100		
108	67.7	56.3	84.5
77	62.5	50.6	76.0

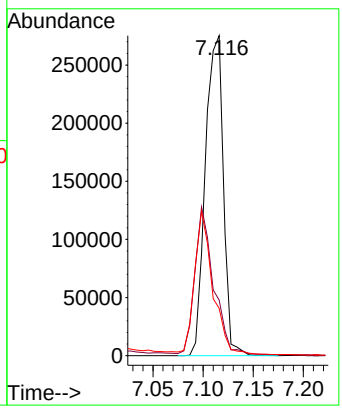




#16
2,2'-oxybis(1-Chloropropane)
Concen: 72.012 ng
RT: 7.116 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF134434.D
Acq: 24 Jul 2023 17:44

Tgt Ion: 45 Resp: 34459

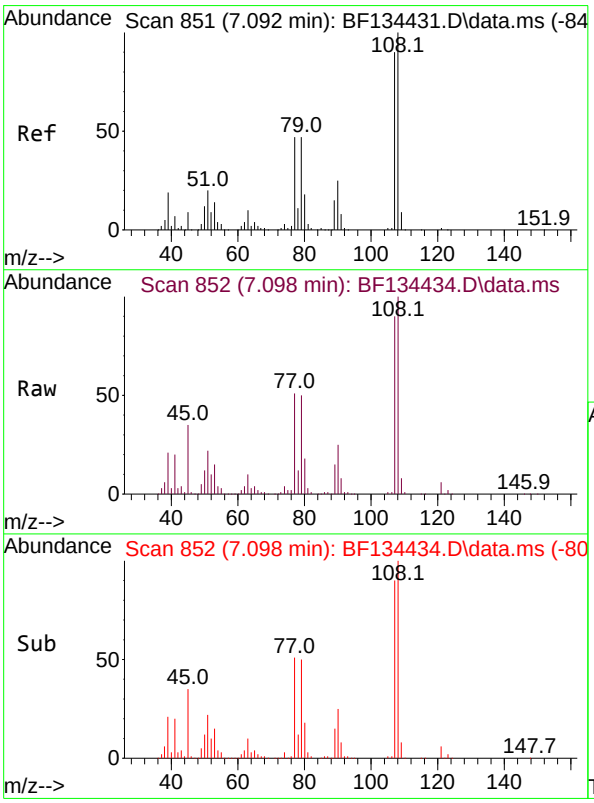
Ion	Ratio	Lower	Upper
45	100		
77	17.4	0.0	37.8
79	14.8	0.0	34.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

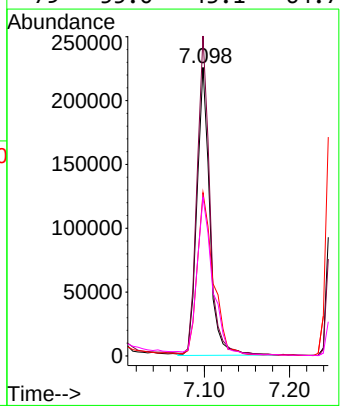
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

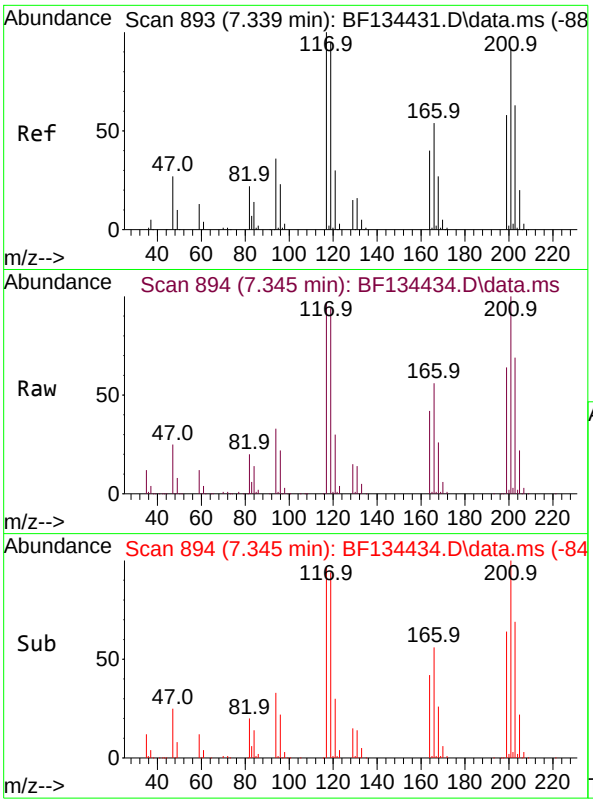


#17
2-Methylphenol
Concen: 71.217 ng
RT: 7.098 min Scan# 852
Delta R.T. 0.006 min
Lab File: BF134434.D
Acq: 24 Jul 2023 17:44

Tgt Ion:107 Resp: 234952

Ion	Ratio	Lower	Upper
107	100		
108	110.9	89.4	134.2
77	56.6	42.4	63.6
79	55.0	43.1	64.7

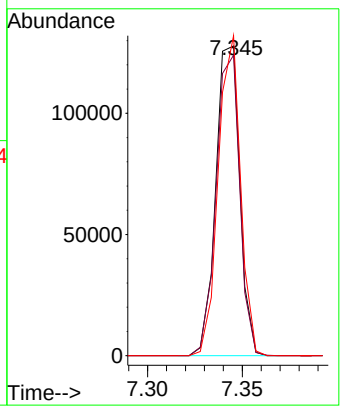




#18
Hexachloroethane
Concen: 71.883 ng
RT: 7.345 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF134434.D
Acq: 24 Jul 2023 17:44

Tgt Ion:117 Resp: 11305

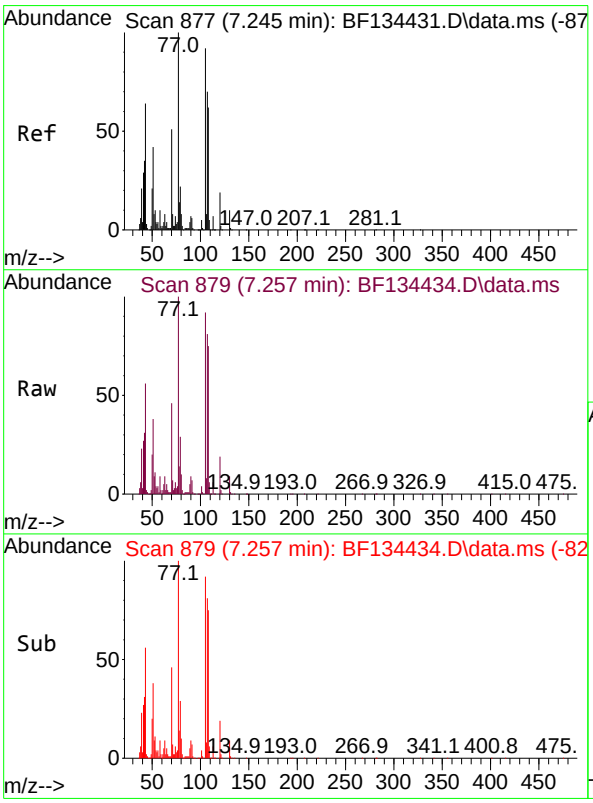
Ion	Ratio	Lower	Upper
117	100		
119	97.0	75.8	113.8
201	103.3	73.6	110.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

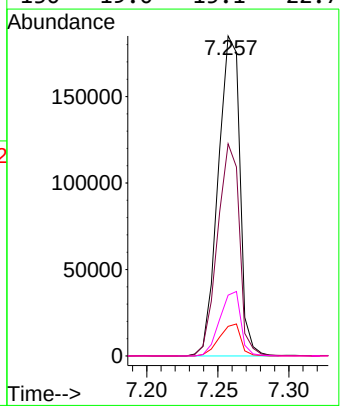
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

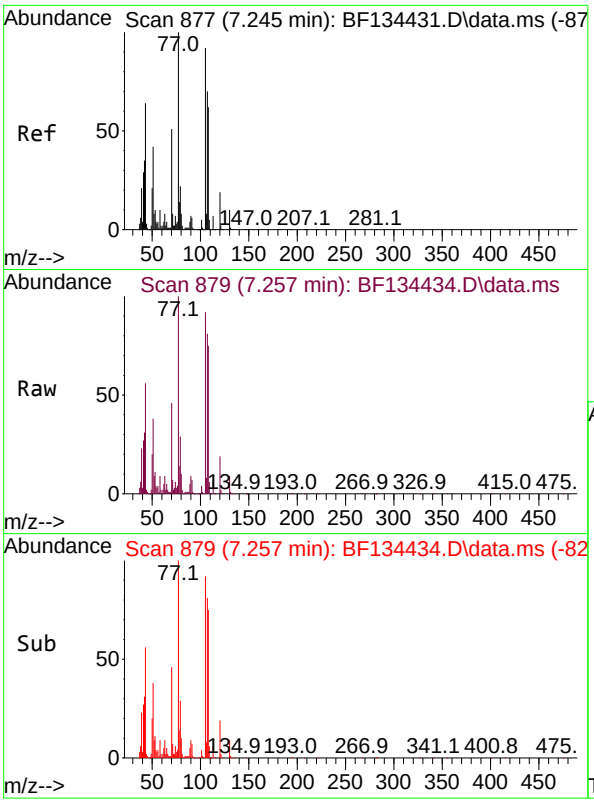


#19
n-Nitroso-di-n-propylamine
Concen: 70.683 ng
RT: 7.257 min Scan# 879
Delta R.T. 0.012 min
Lab File: BF134434.D
Acq: 24 Jul 2023 17:44

Tgt Ion: 70 Resp: 196854

Ion	Ratio	Lower	Upper
70	100		
42	66.3	54.7	82.1
101	9.3	8.2	12.2
130	19.0	15.1	22.7

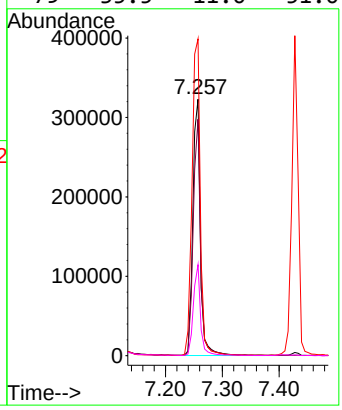




#20
3+4-Methylphenols
Concen: 71.111 ng
RT: 7.257 min Scan# 8
Delta R.T. 0.012 min
Lab File: BF134434.D
Acq: 24 Jul 2023 17:44

Tgt Ion:107 Resp: 30036

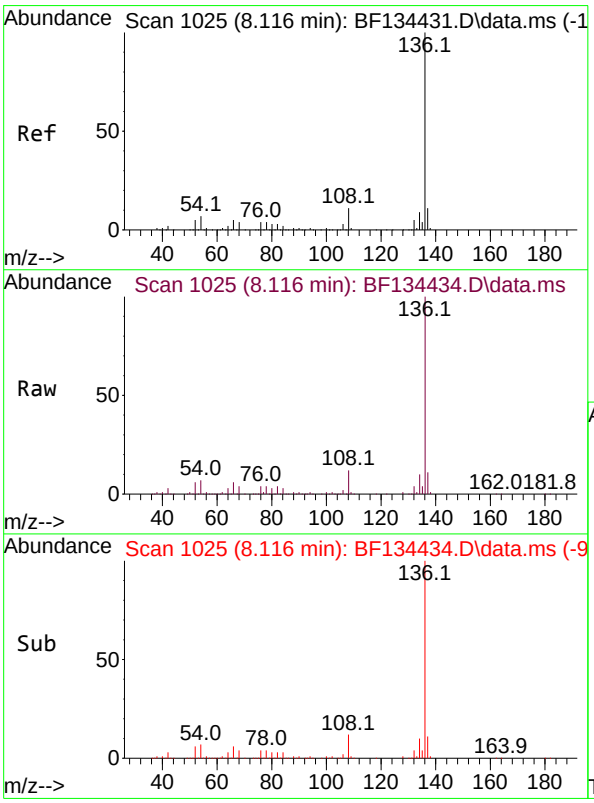
Ion	Ratio	Lower	Upper
107	100		
108	92.2	68.1	108.1
77	123.5	122.1	162.1
79	35.5	11.0	51.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

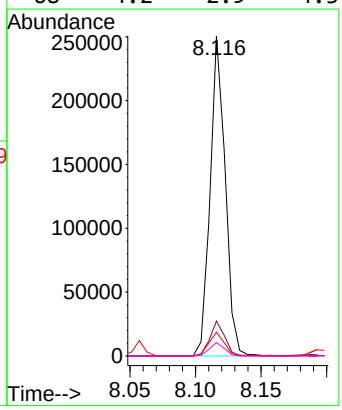
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

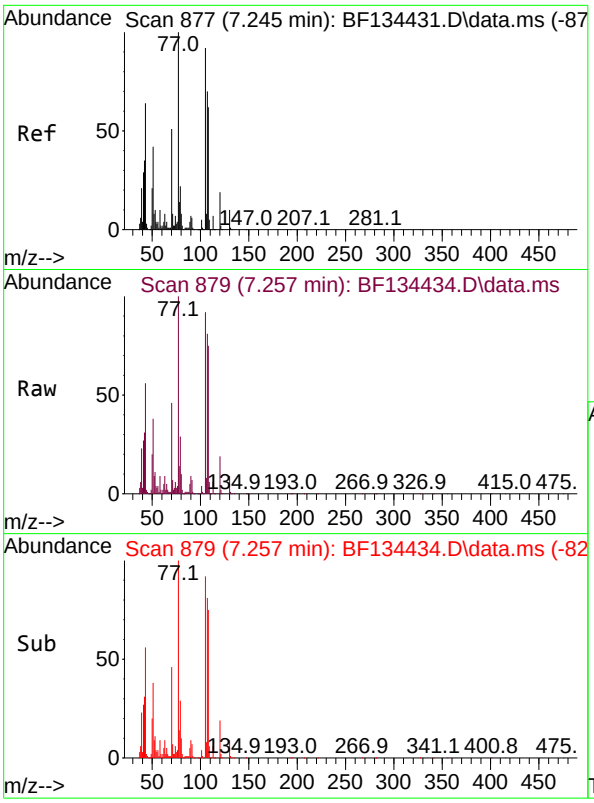


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.116 min Scan# 1025
Delta R.T. 0.000 min
Lab File: BF134434.D
Acq: 24 Jul 2023 17:44

Tgt Ion:136 Resp: 201078

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.4	12.6
54	7.5	5.2	7.8
68	4.2	2.9	4.3

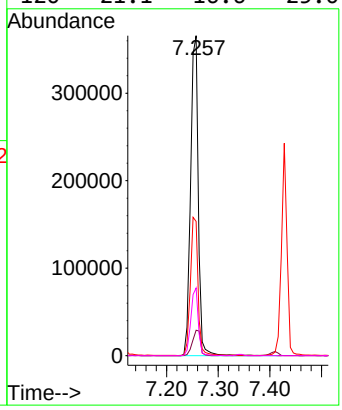




#22
Acetophenone
Concen: 75.526 ng
RT: 7.257 min Scan# 8
Delta R.T. 0.012 min
Lab File: BF134434.D
Acq: 24 Jul 2023 17:44

Tgt Ion:105 Resp: 37769

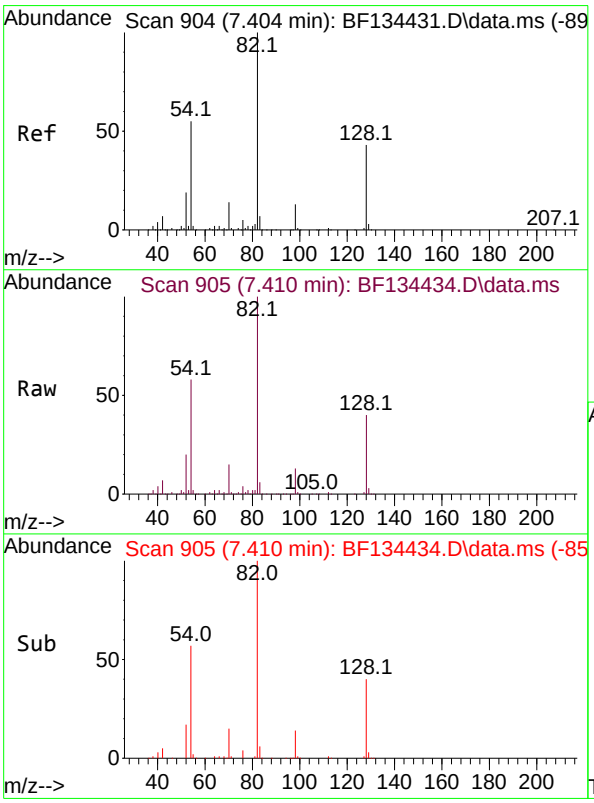
Ion	Ratio	Lower	Upper
105	100		
71	7.9	7.4	11.0
51	41.9	36.4	54.6
120	21.1	16.6	25.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

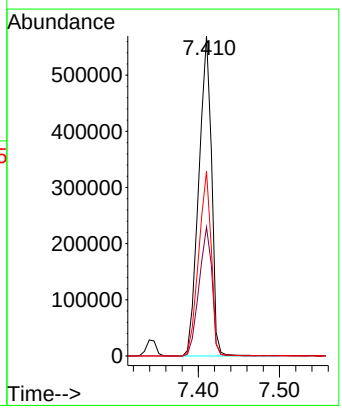
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

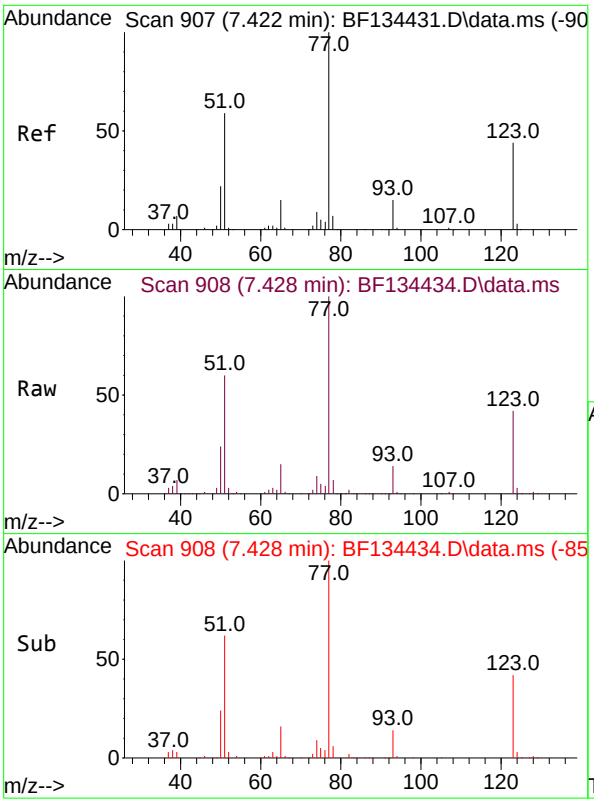


#23
Nitrobenzene-d5
Concen: 157.275 ng
RT: 7.410 min Scan# 905
Delta R.T. 0.006 min
Lab File: BF134434.D
Acq: 24 Jul 2023 17:44

Tgt Ion: 82 Resp: 625058

Ion	Ratio	Lower	Upper
82	100		
128	40.3	34.3	51.5
54	57.7	43.8	65.6

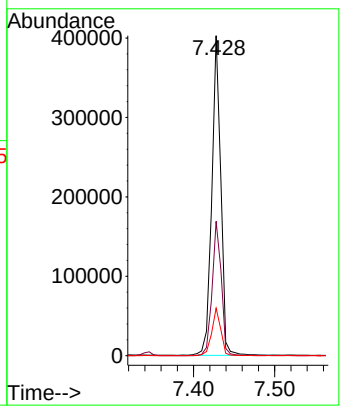




#24
Nitrobenzene
Concen: 77.946 ng
RT: 7.428 min Scan# 9
Delta R.T. 0.006 min
Lab File: BF134434.D
Acq: 24 Jul 2023 17:44

Tgt Ion: 77 Resp: 30808

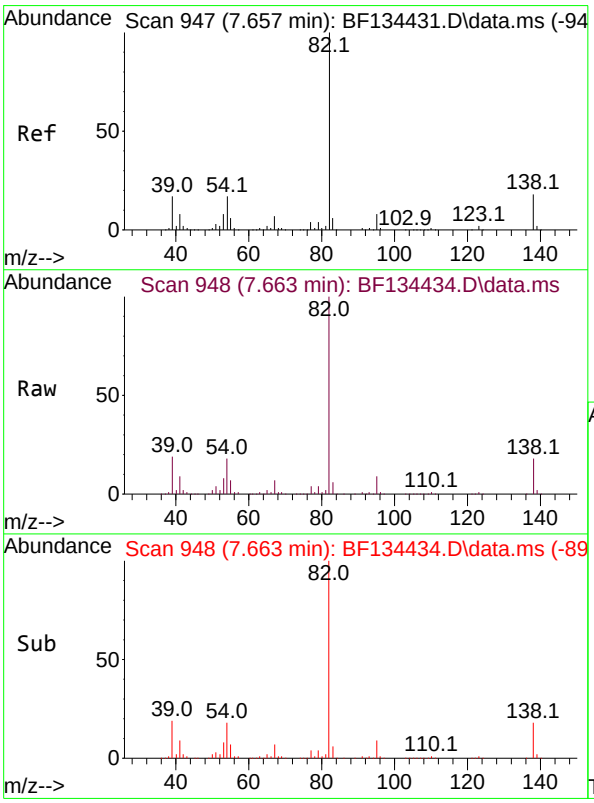
Ion	Ratio	Lower	Upper
77	100		
123	42.0	35.5	53.3
65	14.8	11.9	17.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

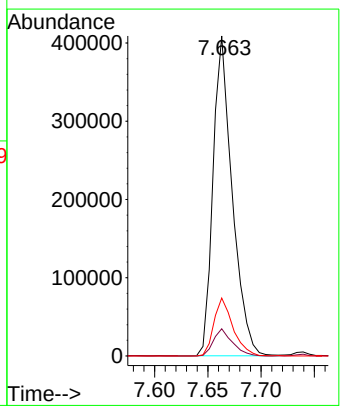
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

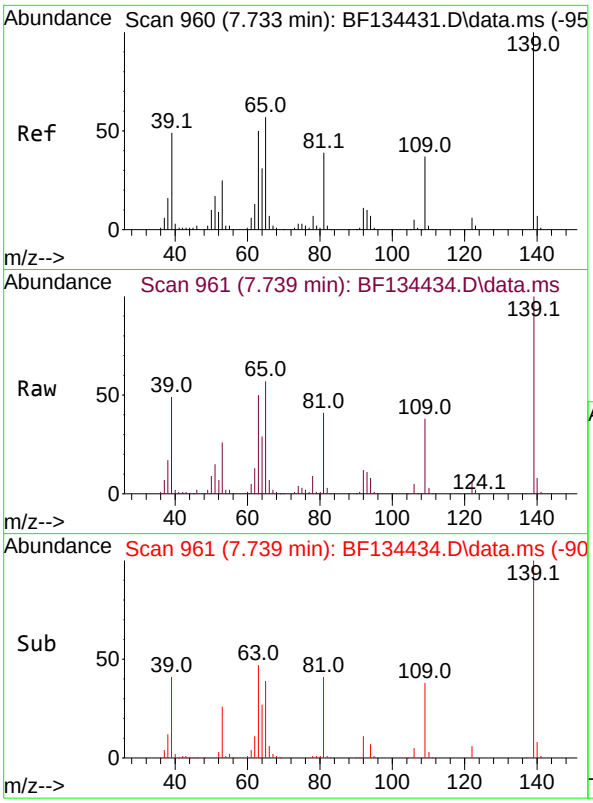


#25
Isophorone
Concen: 77.351 ng
RT: 7.663 min Scan# 948
Delta R.T. 0.006 min
Lab File: BF134434.D
Acq: 24 Jul 2023 17:44

Tgt Ion: 82 Resp: 512342

Ion	Ratio	Lower	Upper
82	100		
95	8.5	6.0	9.0
138	18.1	14.6	22.0

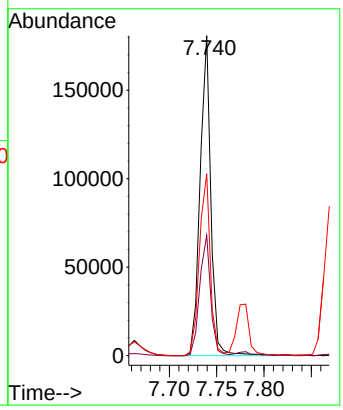




#26
2-Nitrophenol
Concen: 78.956 ng
RT: 7.739 min Scan# 9
Delta R.T. 0.006 min
Lab File: BF134434.D
Acq: 24 Jul 2023 17:44

Tgt Ion:139 Resp: 14353

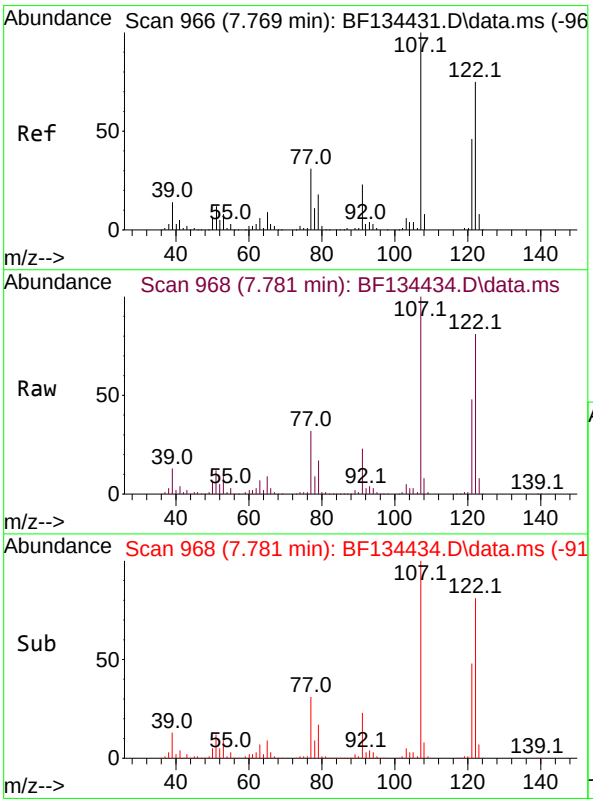
Ion	Ratio	Lower	Upper
139	100		
109	37.6	29.8	44.6
65	56.9	45.4	68.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

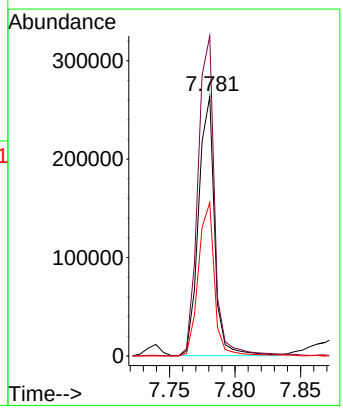
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

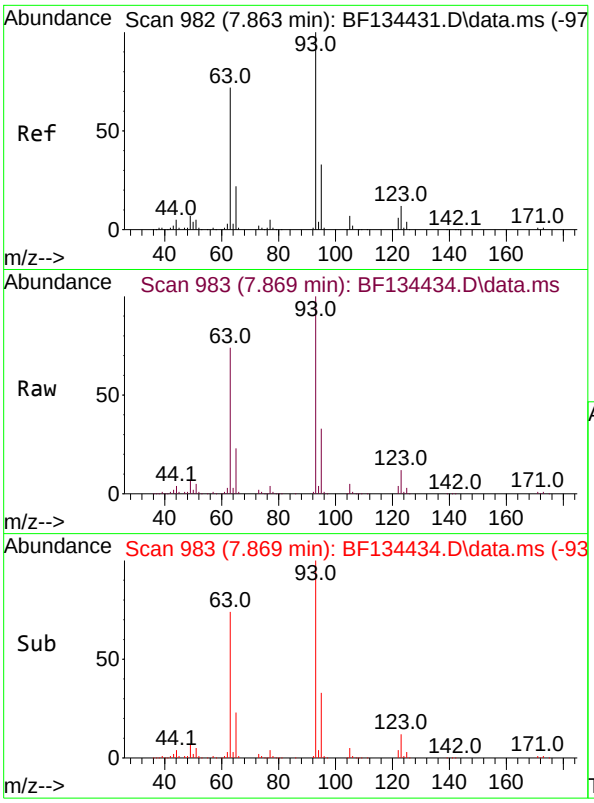


#27
2,4-Dimethylphenol
Concen: 78.332 ng
RT: 7.781 min Scan# 968
Delta R.T. 0.012 min
Lab File: BF134434.D
Acq: 24 Jul 2023 17:44

Tgt Ion:122 Resp: 224722

Ion	Ratio	Lower	Upper
122	100		
107	123.3	106.7	160.1
121	59.1	49.0	73.6

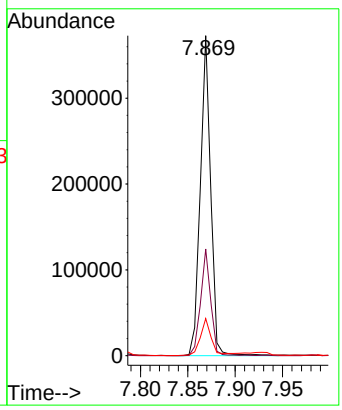




#28
bis(2-Chloroethoxy)methane
Concen: 77.038 ng
RT: 7.869 min Scan# 9
Delta R.T. 0.006 min
Lab File: BF134434.D
Acq: 24 Jul 2023 17:44

Tgt Ion: 93 Resp: 28402

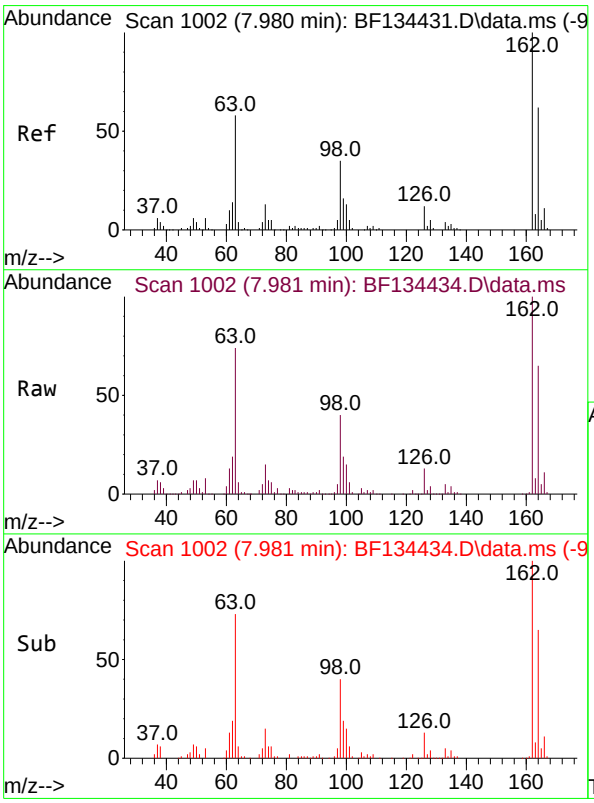
Ion	Ratio	Lower	Upper
93	100		
95	33.4	26.5	39.7
123	11.6	9.6	14.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

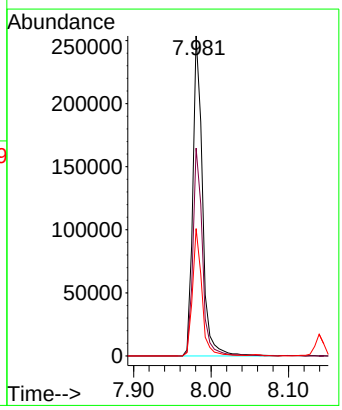
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

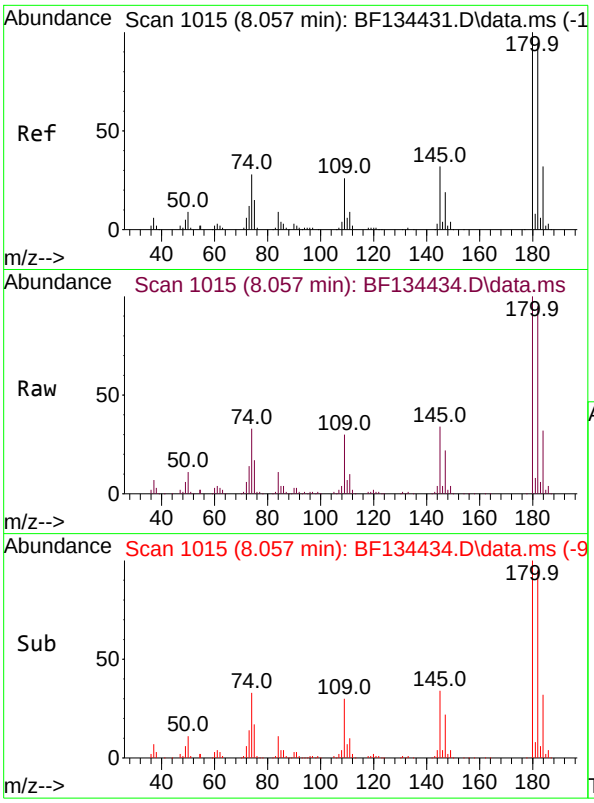


#29
2,4-Dichlorophenol
Concen: 76.937 ng
RT: 7.981 min Scan# 1002
Delta R.T. 0.000 min
Lab File: BF134434.D
Acq: 24 Jul 2023 17:44

Tgt Ion:162 Resp: 220643

Ion	Ratio	Lower	Upper
162	100		
164	65.0	42.2	82.2
98	39.8	15.5	55.5

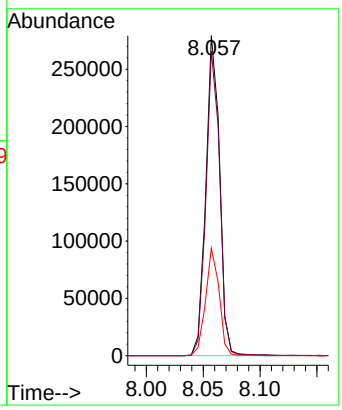




#30
1,2,4-Trichlorobenzene
Concen: 76.137 ng
RT: 8.057 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134434.D
Acq: 24 Jul 2023 17:44

Tgt Ion:180 Resp: 23552

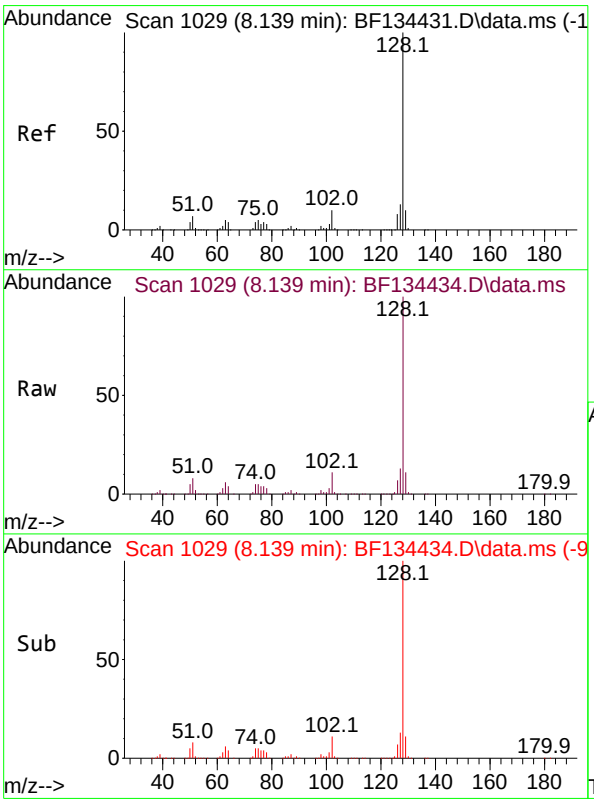
Ion	Ratio	Lower	Upper
180	100		
182	95.1	75.0	112.6
145	33.6	25.5	38.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

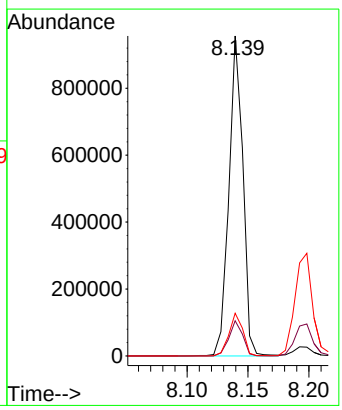
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

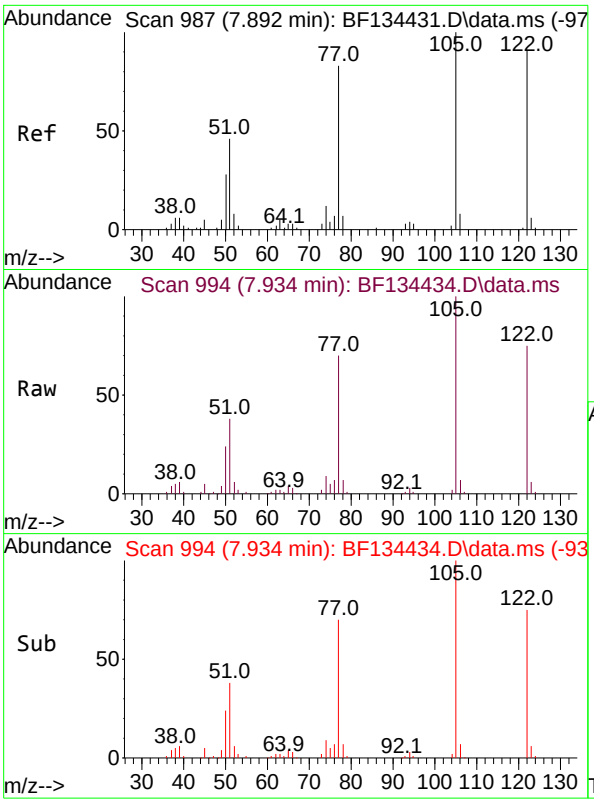


#31
Naphthalene
Concen: 76.535 ng
RT: 8.139 min Scan# 1029
Delta R.T. 0.000 min
Lab File: BF134434.D
Acq: 24 Jul 2023 17:44

Tgt Ion:128 Resp: 765914

Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.4	12.6
127	13.3	10.7	16.1

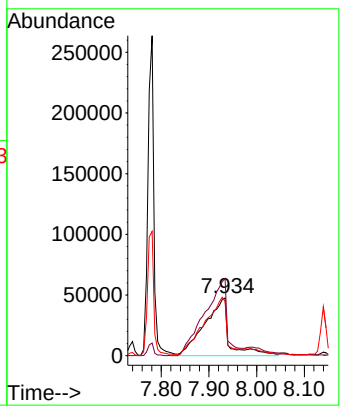




#32
Benzoic acid
Concen: 90.907 ng m
RT: 7.934 min Scan# 9
Delta R.T. 0.041 min
Lab File: BF134434.D
Acq: 24 Jul 2023 17:44

Tgt Ion:122 Resp: 17221

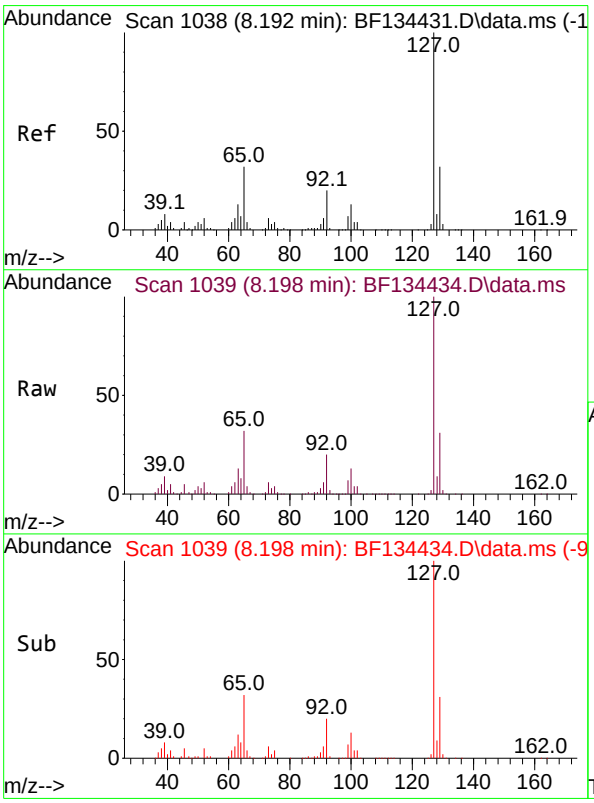
Ion	Ratio	Lower	Upper
122	100		
105	133.5	87.5	127.5
77	94.0	71.4	111.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

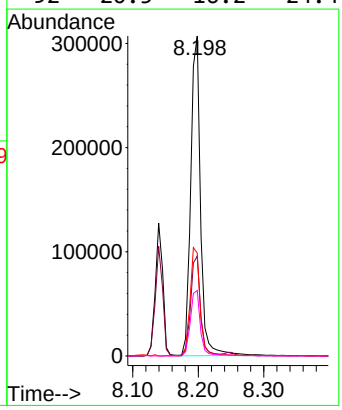
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

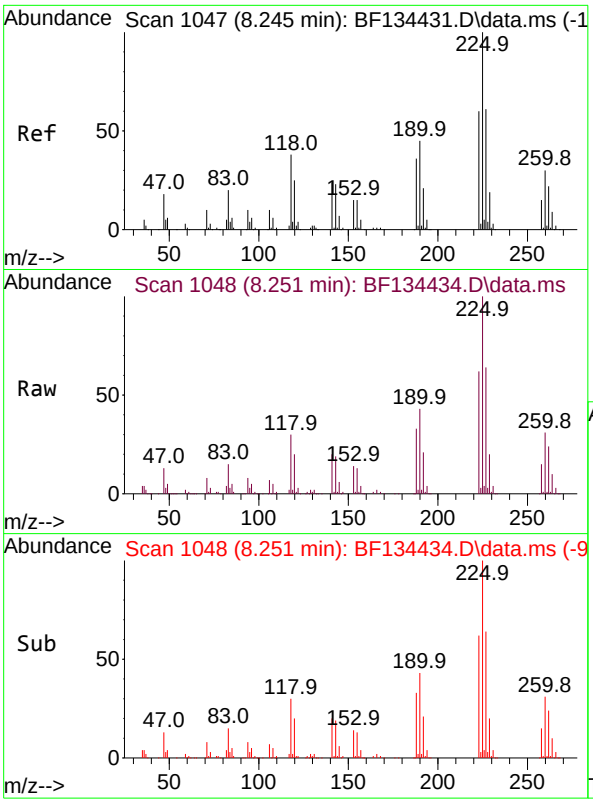


#33
4-Chloroaniline
Concen: 77.544 ng
RT: 8.198 min Scan# 1039
Delta R.T. 0.006 min
Lab File: BF134434.D
Acq: 24 Jul 2023 17:44

Tgt Ion:127 Resp: 320766

Ion	Ratio	Lower	Upper
127	100		
129	31.2	25.6	38.4
65	32.1	25.4	38.0
92	20.5	16.2	24.4

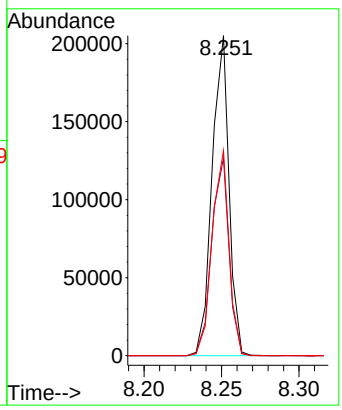




#34
Hexachlorobutadiene
Concen: 75.039 ng
RT: 8.251 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF134434.D
Acq: 24 Jul 2023 17:44

Tgt Ion:225 Resp: 15550

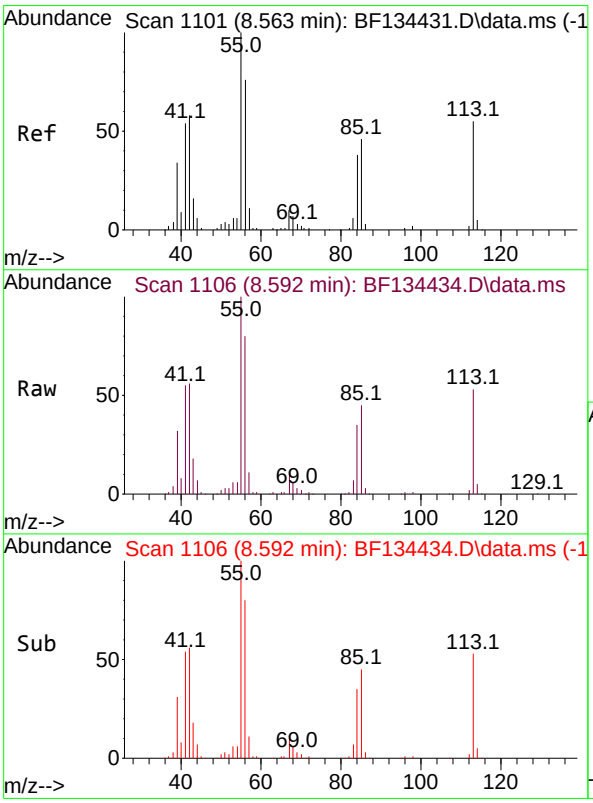
Ion	Ratio	Lower	Upper
225	100		
223	61.7	48.2	72.4
227	64.1	48.5	72.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

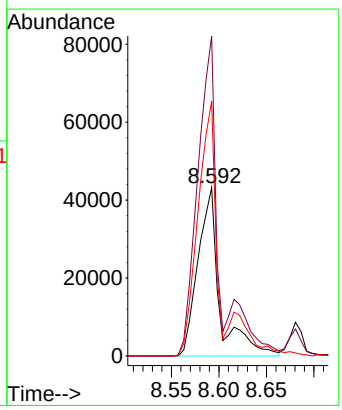
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

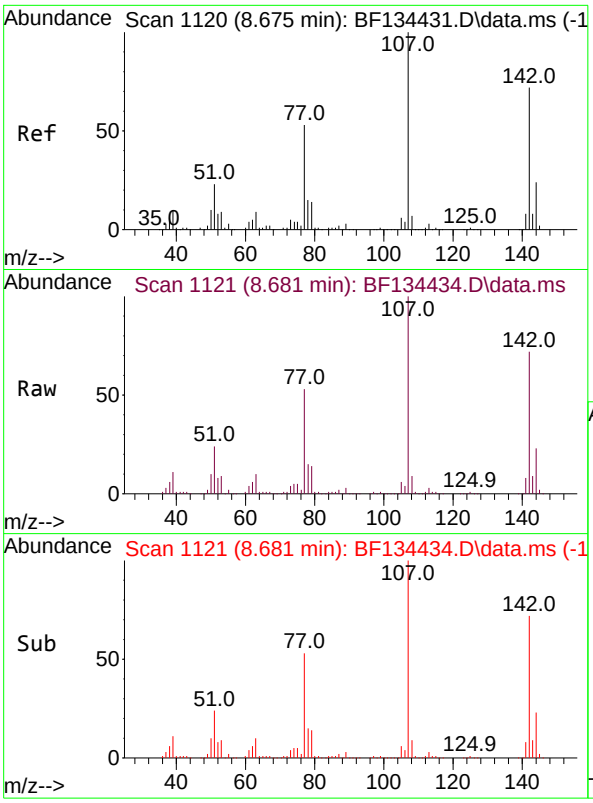


#35
Caprolactam
Concen: 79.085 ng m
RT: 8.592 min Scan# 1106
Delta R.T. 0.030 min
Lab File: BF134434.D
Acq: 24 Jul 2023 17:44

Tgt Ion:113 Resp: 69217

Ion	Ratio	Lower	Upper
113	100		
55	190.2	161.5	201.5
56	151.3	117.8	157.8

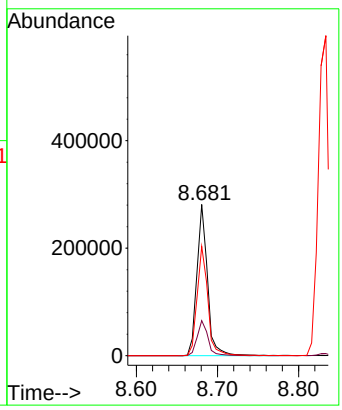




#36
4-Chloro-3-methylphenol
Concen: 77.650 ng
RT: 8.681 min Scan# 11
Delta R.T. 0.006 min
Lab File: BF134434.D
Acq: 24 Jul 2023 17:44

Tgt Ion:107 Resp: 25694

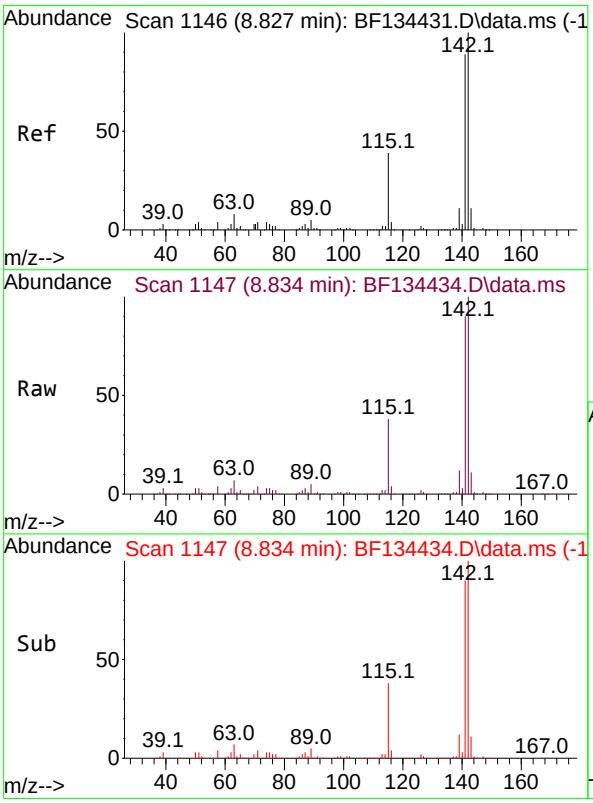
Ion	Ratio	Lower	Upper
107	100		
144	23.2	19.6	29.4
142	72.3	57.7	86.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

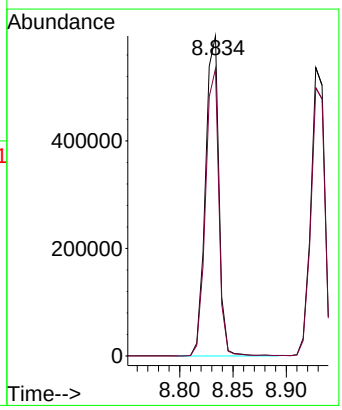
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

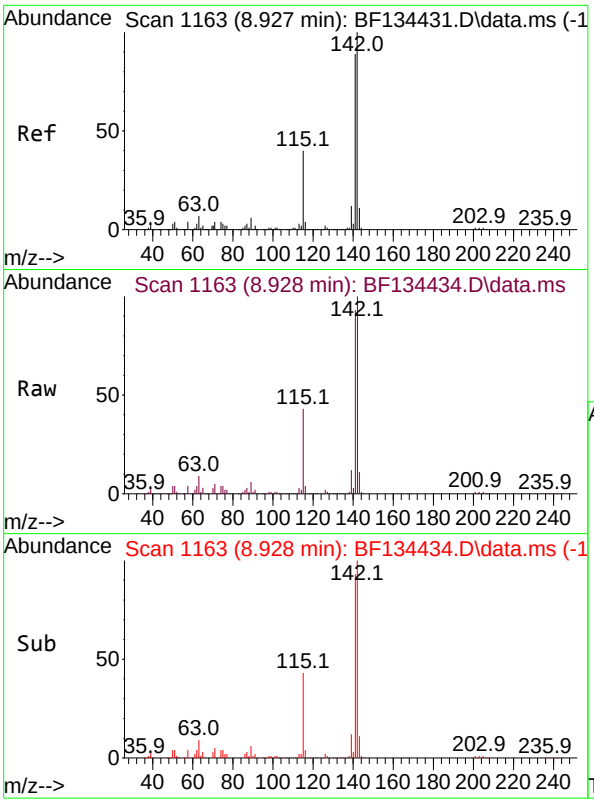


#37
2-Methylnaphthalene
Concen: 75.274 ng
RT: 8.834 min Scan# 1147
Delta R.T. 0.006 min
Lab File: BF134434.D
Acq: 24 Jul 2023 17:44

Tgt Ion:142 Resp: 523403

Ion	Ratio	Lower	Upper
142	100		
141	89.8	70.8	106.2

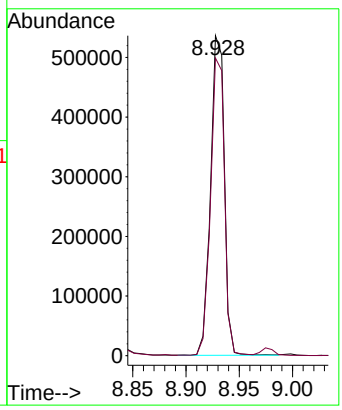




#38
1-Methylnaphthalene
Concen: 74.924 ng
RT: 8.928 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134434.D
Acq: 24 Jul 2023 17:44

Tgt Ion:142 Resp: 48330

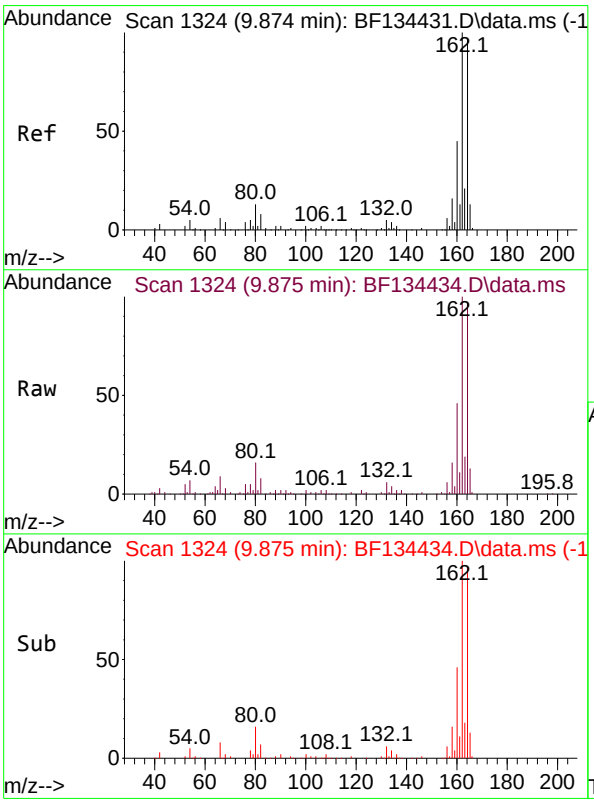
Ion	Ratio	Lower	Upper
142	100		
141	93.0	71.4	107.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

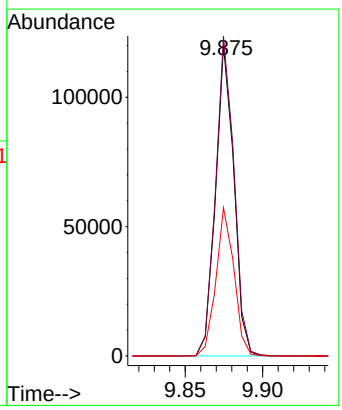
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

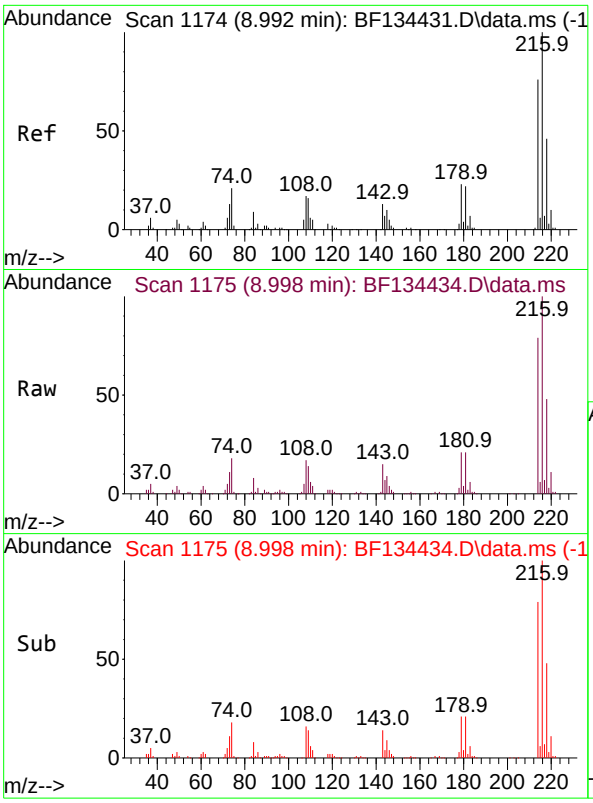


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.875 min Scan# 1324
Delta R.T. 0.000 min
Lab File: BF134434.D
Acq: 24 Jul 2023 17:44

Tgt Ion:164 Resp: 98354

Ion	Ratio	Lower	Upper
164	100		
162	102.9	82.6	123.8
160	47.7	37.2	55.8

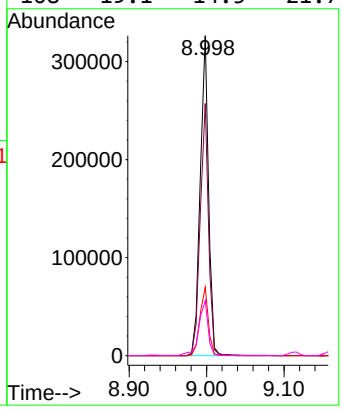




#40
1,2,4,5-Tetrachlorobenzene
Concen: 78.200 ng
RT: 8.998 min Scan# 11
Delta R.T. 0.006 min
Lab File: BF134434.D
Acq: 24 Jul 2023 17:44

Tgt Ion:216 Resp: 24373

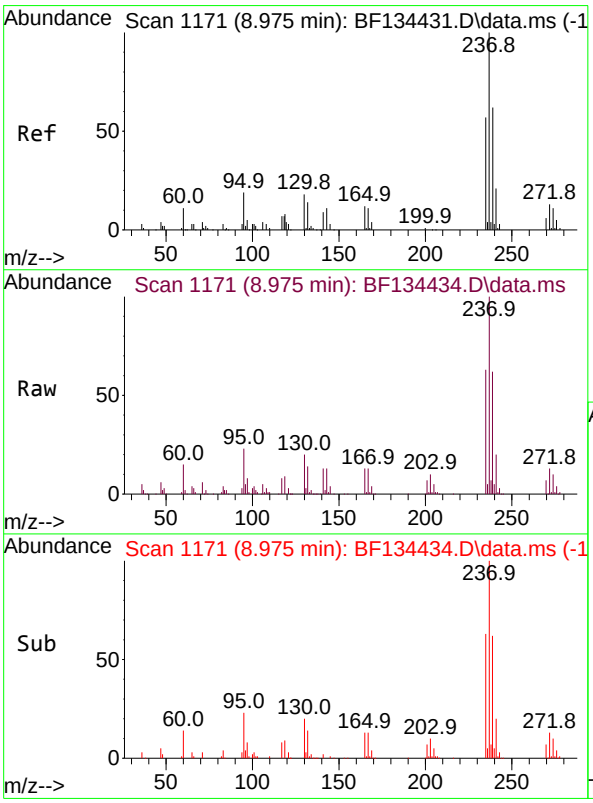
Ion	Ratio	Lower	Upper
216	100		
214	78.7	62.3	93.5
179	21.7	17.4	26.0
108	19.1	14.5	21.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

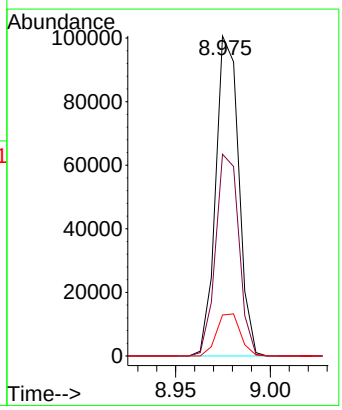
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

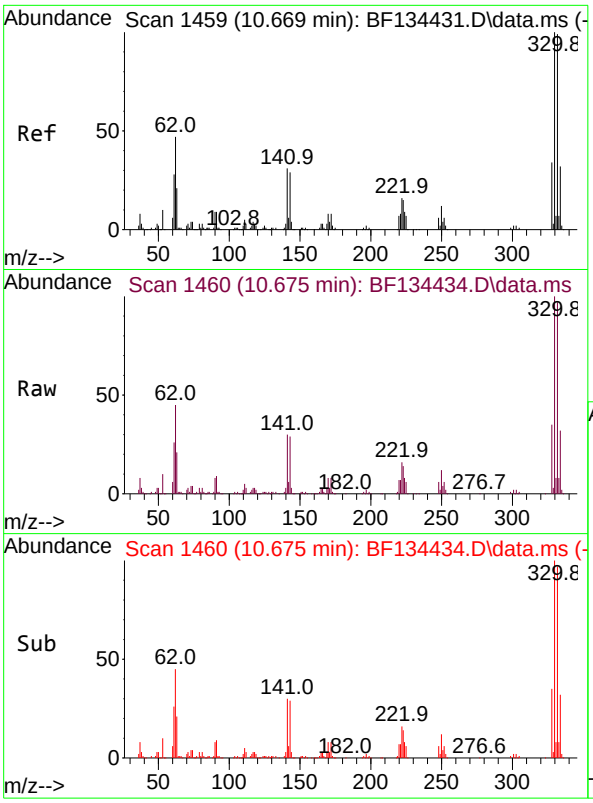


#41
Hexachlorocyclopentadiene
Concen: 79.733 ng
RT: 8.975 min Scan# 1171
Delta R.T. -0.000 min
Lab File: BF134434.D
Acq: 24 Jul 2023 17:44

Tgt Ion:237 Resp: 84958

Ion	Ratio	Lower	Upper
237	100		
235	63.0	37.0	77.0
272	12.8	0.0	32.7

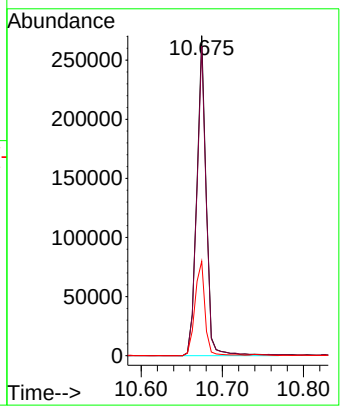




#42
2,4,6-Tribromophenol
Concen: 157.035 ng
RT: 10.675 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF134434.D
Acq: 24 Jul 2023 17:44

Tgt Ion:330 Resp: 21944

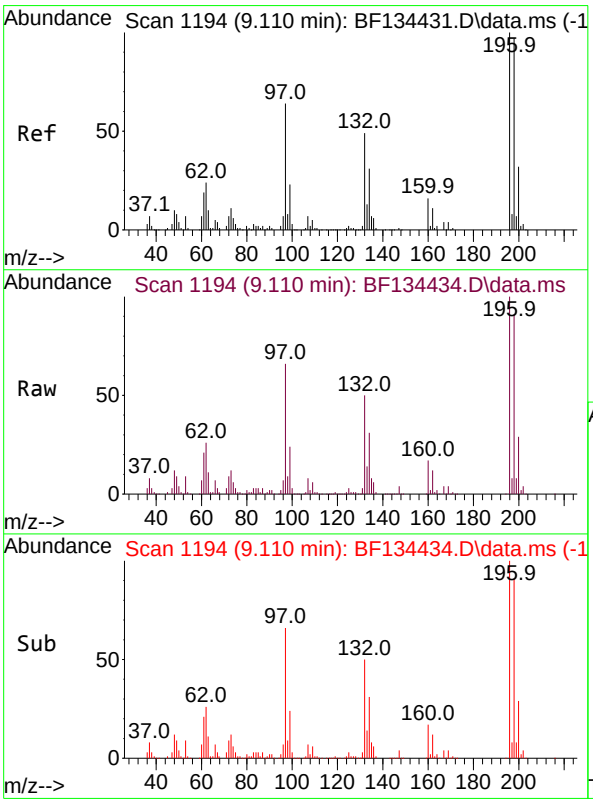
Ion	Ratio	Lower	Upper
330	100		
332	96.9	78.8	118.2
141	31.5	25.4	38.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

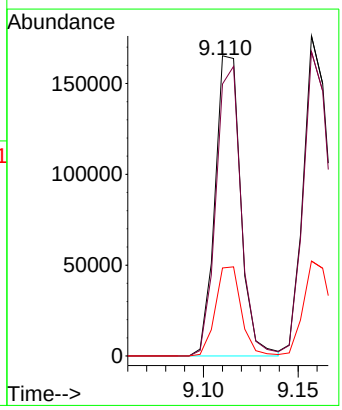
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

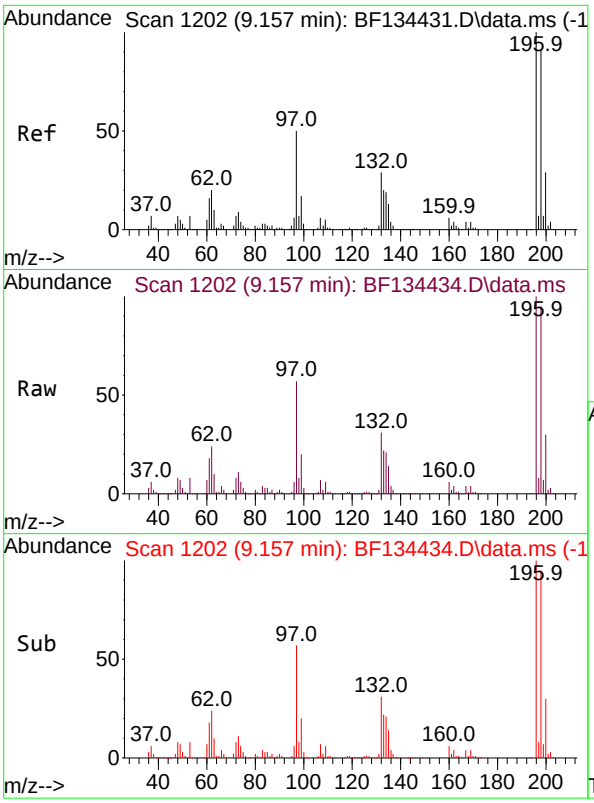


#43
2,4,6-Trichlorophenol
Concen: 78.214 ng
RT: 9.110 min Scan# 1194
Delta R.T. 0.000 min
Lab File: BF134434.D
Acq: 24 Jul 2023 17:44

Tgt Ion:196 Resp: 156391

Ion	Ratio	Lower	Upper
196	100		
198	90.6	77.4	116.2
200	29.3	25.4	38.2

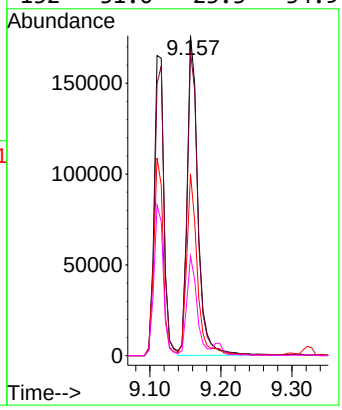




#44
2,4,5-Trichlorophenol
Concen: 79.119 ng
RT: 9.157 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134434.D
Acq: 24 Jul 2023 17:44

Tgt Ion:196 Resp: 18431

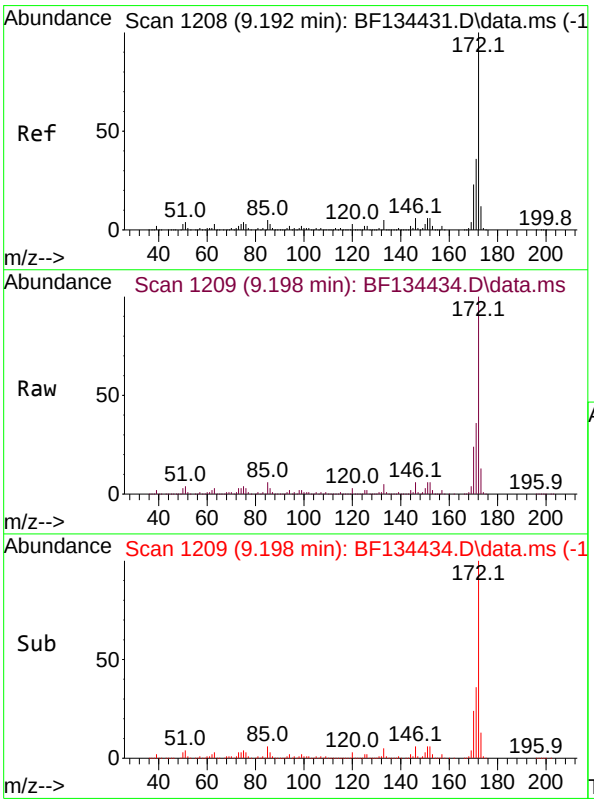
Ion	Ratio	Lower	Upper
196	100		
198	95.1	73.0	109.4
97	56.9	40.8	61.2
132	31.0	23.3	34.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

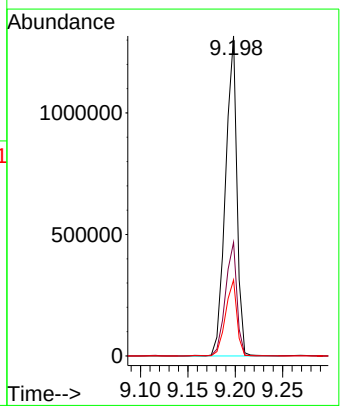
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

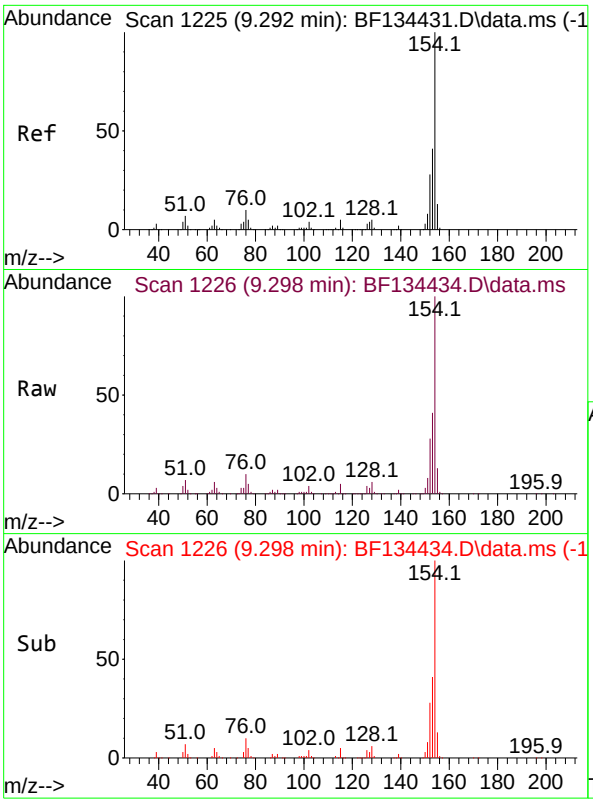


#45
2-Fluorobiphenyl
Concen: 147.855 ng
RT: 9.198 min Scan# 1209
Delta R.T. 0.006 min
Lab File: BF134434.D
Acq: 24 Jul 2023 17:44

Tgt Ion:172 Resp: 1107722

Ion	Ratio	Lower	Upper
172	100		
171	35.5	28.8	43.2
170	23.8	18.7	28.1

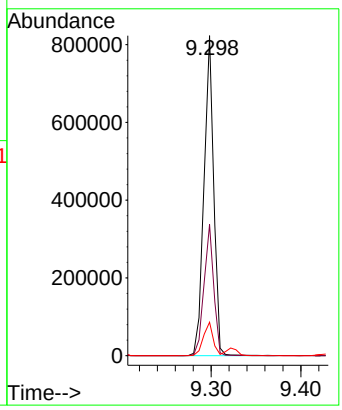




#46
1,1'-Biphenyl
Concen: 76.478 ng
RT: 9.298 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF134434.D
Acq: 24 Jul 2023 17:44

Tgt Ion:154 Resp: 619949

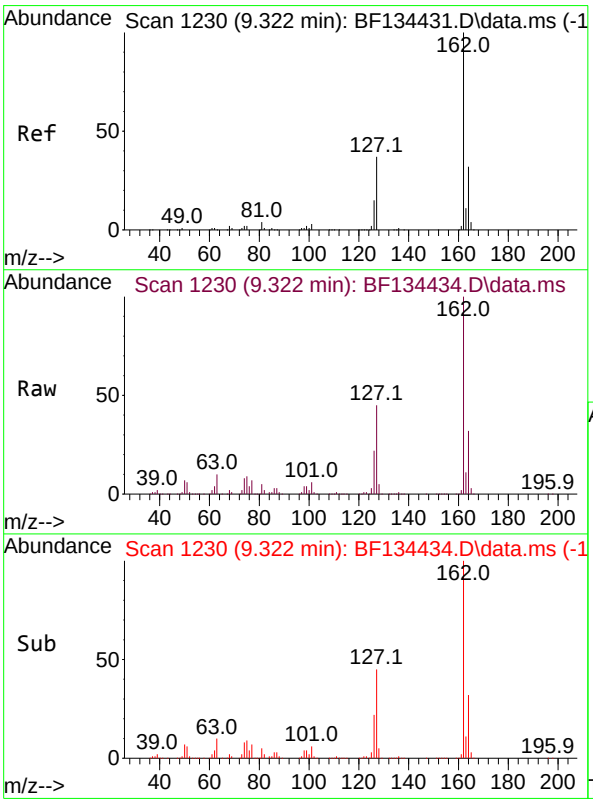
Ion	Ratio	Lower	Upper
154	100		
153	41.0	20.8	60.8
76	10.5	0.0	30.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

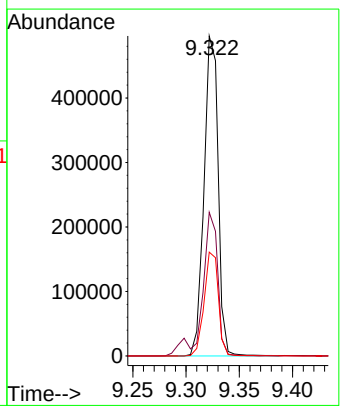
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

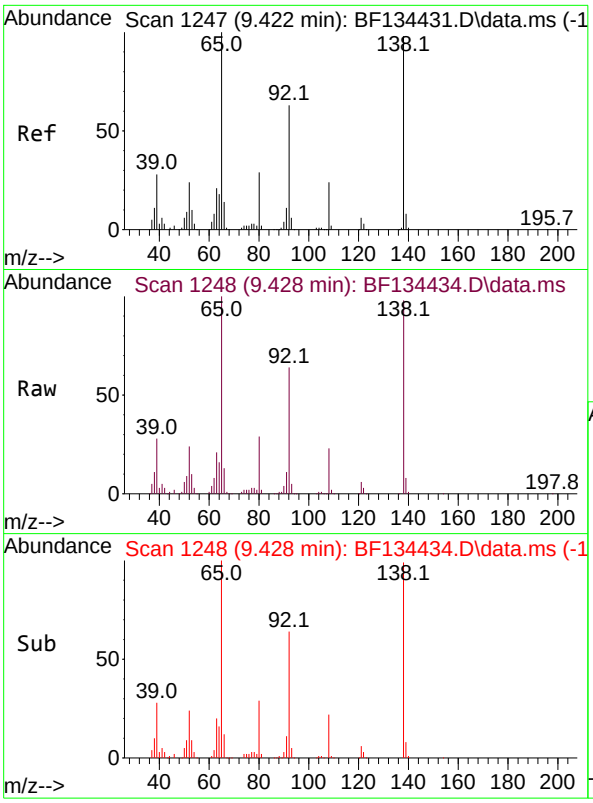


#47
2-Chloronaphthalene
Concen: 77.008 ng
RT: 9.322 min Scan# 1230
Delta R.T. 0.000 min
Lab File: BF134434.D
Acq: 24 Jul 2023 17:44

Tgt Ion:162 Resp: 460211

Ion	Ratio	Lower	Upper
162	100		
127	44.9	34.0	51.0
164	32.4	25.7	38.5





#48
2-Nitroaniline
Concen: 81.431 ng
RT: 9.428 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF134434.D
Acq: 24 Jul 2023 17:44

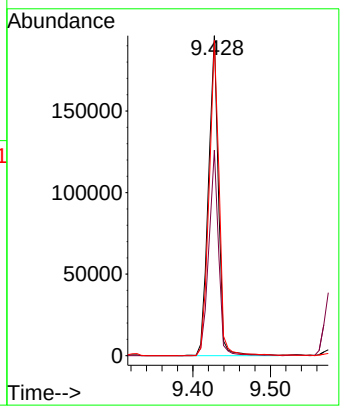
Tgt Ion: 65 Resp: 17526

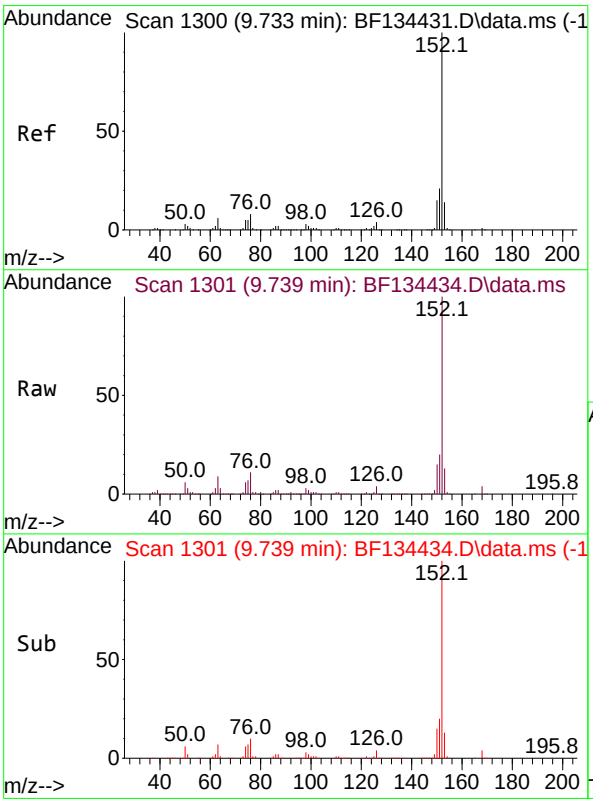
Ion	Ratio	Lower	Upper
65	100		
92	64.3	50.7	76.1
138	98.5	78.2	117.4

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

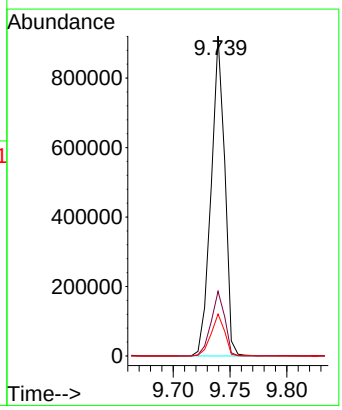


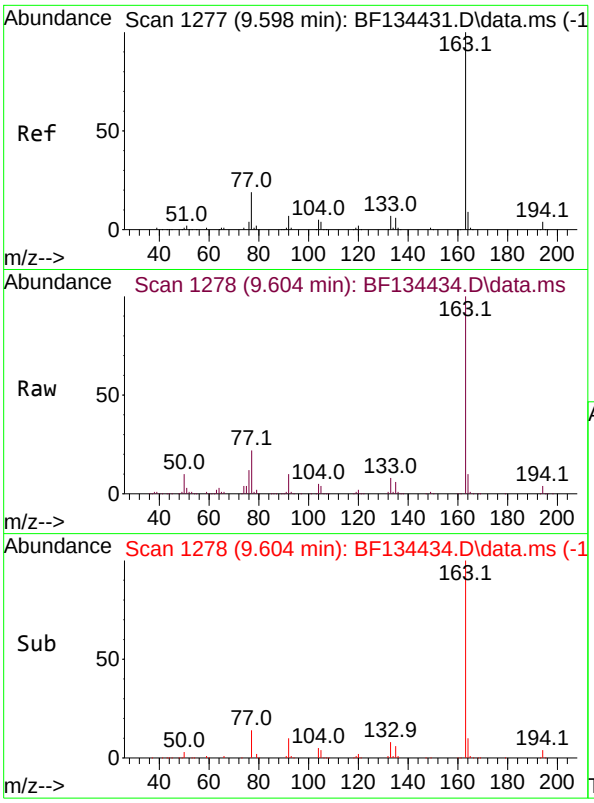


#49
Acenaphthylene
Concen: 76.169 ng
RT: 9.739 min Scan# 1301
Delta R.T. 0.006 min
Lab File: BF134434.D
Acq: 24 Jul 2023 17:44

Tgt Ion:152 Resp: 769006

Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.4	24.6
153	13.1	10.9	16.3

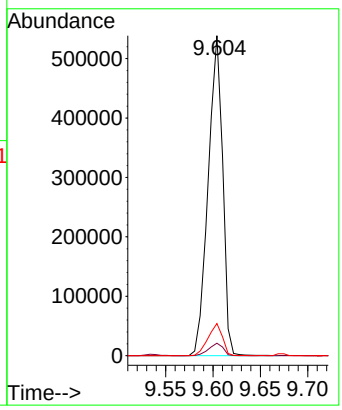




#50
Dimethylphthalate
Concen: 78.384 ng
RT: 9.604 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF134434.D
Acq: 24 Jul 2023 17:44

Tgt Ion:163 Resp: 57149

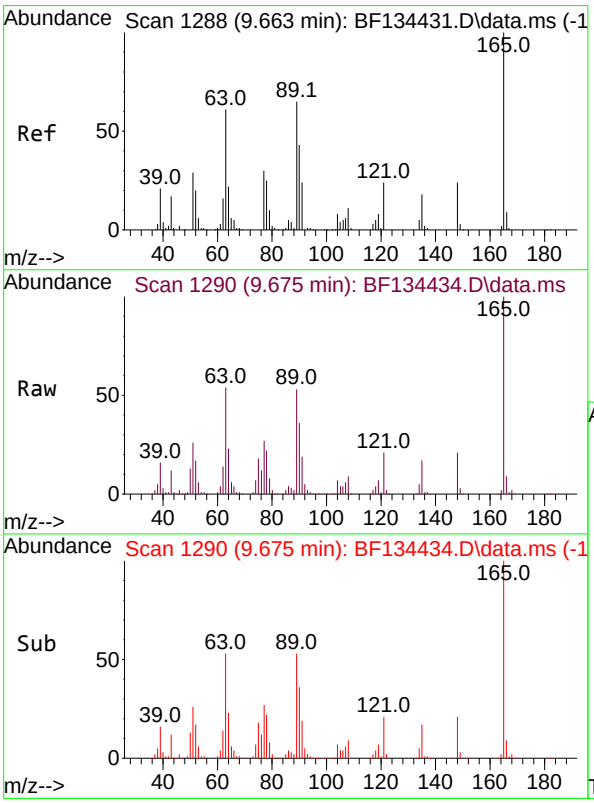
Ion	Ratio	Lower	Upper
163	100		
194	3.9	3.3	4.9
164	10.1	7.5	11.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

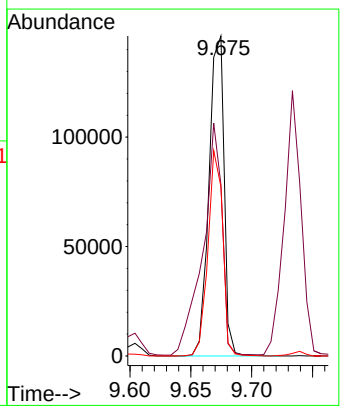
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

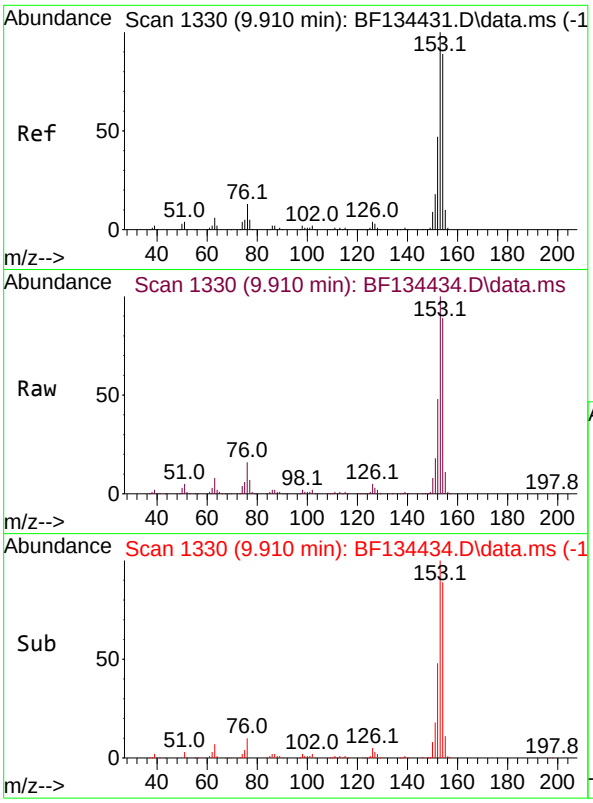


#51
2,6-Dinitrotoluene
Concen: 78.970 ng
RT: 9.675 min Scan# 1290
Delta R.T. 0.012 min
Lab File: BF134434.D
Acq: 24 Jul 2023 17:44

Tgt Ion:165 Resp: 126337

Ion	Ratio	Lower	Upper
165	100		
63	53.5	57.8	86.6#
89	52.9	51.8	77.8

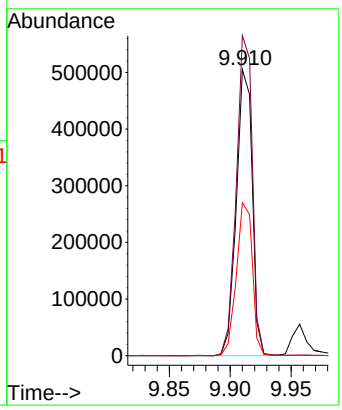




#52
Acenaphthene
Concen: 76.767 ng
RT: 9.910 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF134434.D
Acq: 24 Jul 2023 17:44

Tgt Ion:154 Resp: 45784

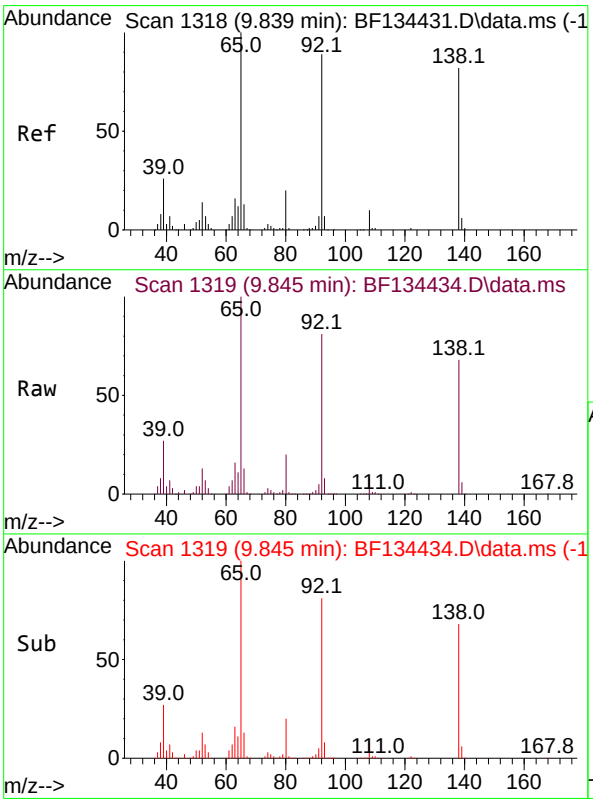
Ion	Ratio	Lower	Upper
154	100		
153	111.8	90.0	135.0
152	53.5	42.4	63.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

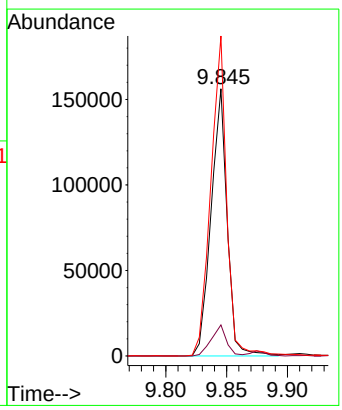
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

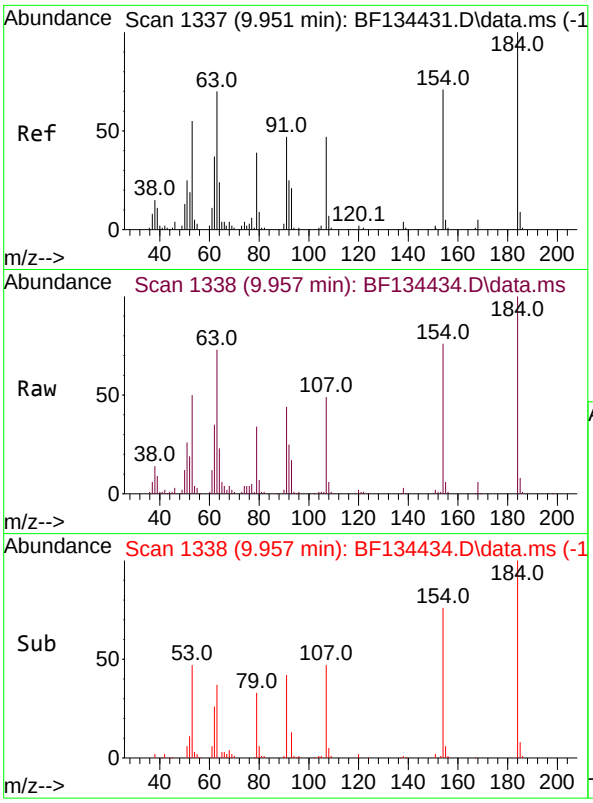


#53
3-Nitroaniline
Concen: 78.172 ng
RT: 9.845 min Scan# 1319
Delta R.T. 0.006 min
Lab File: BF134434.D
Acq: 24 Jul 2023 17:44

Tgt Ion:138 Resp: 143385

Ion	Ratio	Lower	Upper
138	100		
108	11.6	9.3	13.9
92	119.8	86.6	129.8

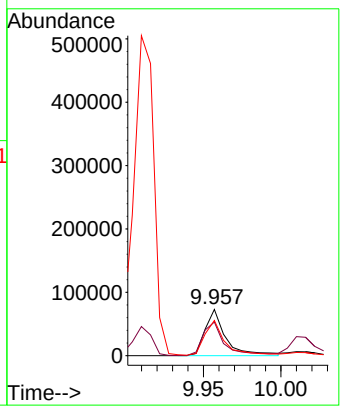




#54
2,4-Dinitrophenol
Concen: 80.855 ng
RT: 9.957 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF134434.D
Acq: 24 Jul 2023 17:44

Tgt Ion:184 Resp: 6792

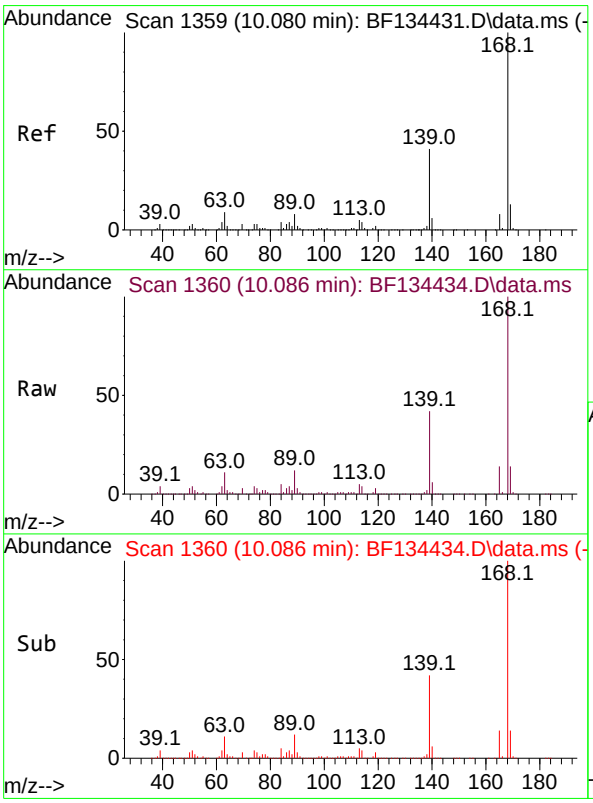
Ion	Ratio	Lower	Upper
184	100		
63	72.6	57.1	85.7
154	76.2	59.1	88.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

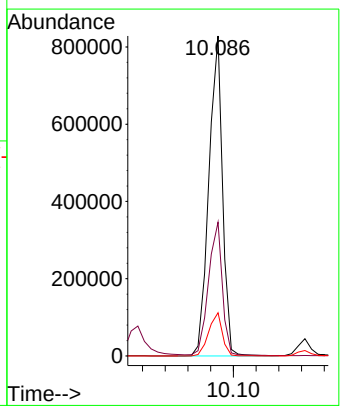
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

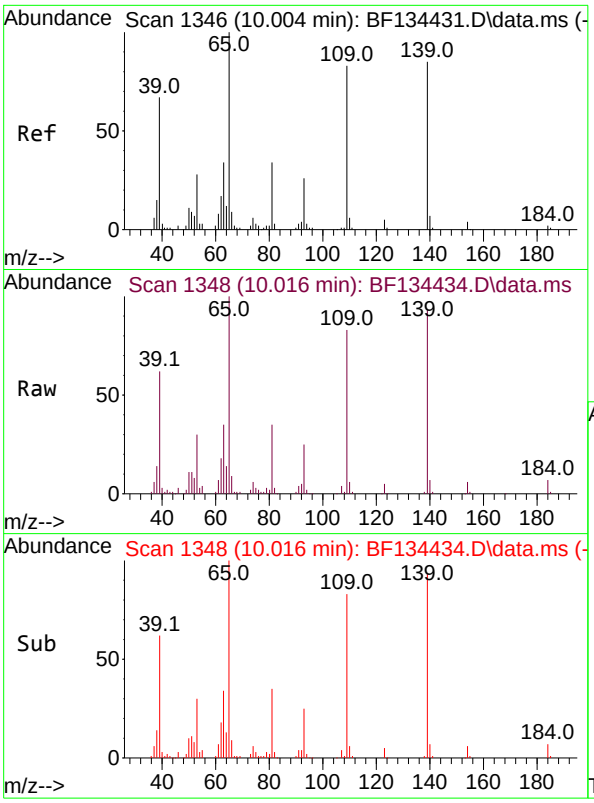


#55
Dibenzofuran
Concen: 75.230 ng
RT: 10.086 min Scan# 1360
Delta R.T. 0.006 min
Lab File: BF134434.D
Acq: 24 Jul 2023 17:44

Tgt Ion:168 Resp: 690558

Ion	Ratio	Lower	Upper
168	100		
139	41.8	33.4	50.2
169	13.5	10.6	15.8

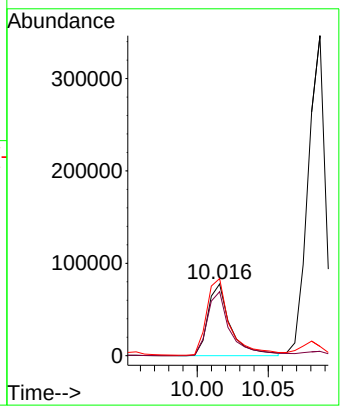




#56
4-Nitrophenol
Concen: 87.363 ng
RT: 10.016 min Scan# 1
Delta R.T. 0.012 min
Lab File: BF134434.D
Acq: 24 Jul 2023 17:44

Tgt Ion:139 Resp: 8545

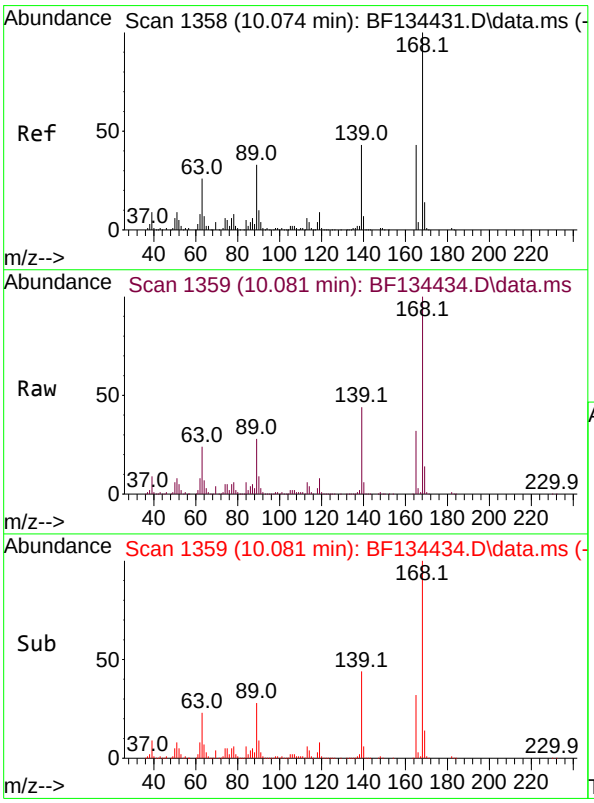
Ion	Ratio	Lower	Upper
139	100		
109	89.3	76.9	116.9
65	107.6	98.5	138.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

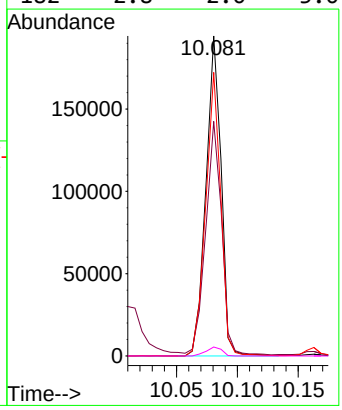
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

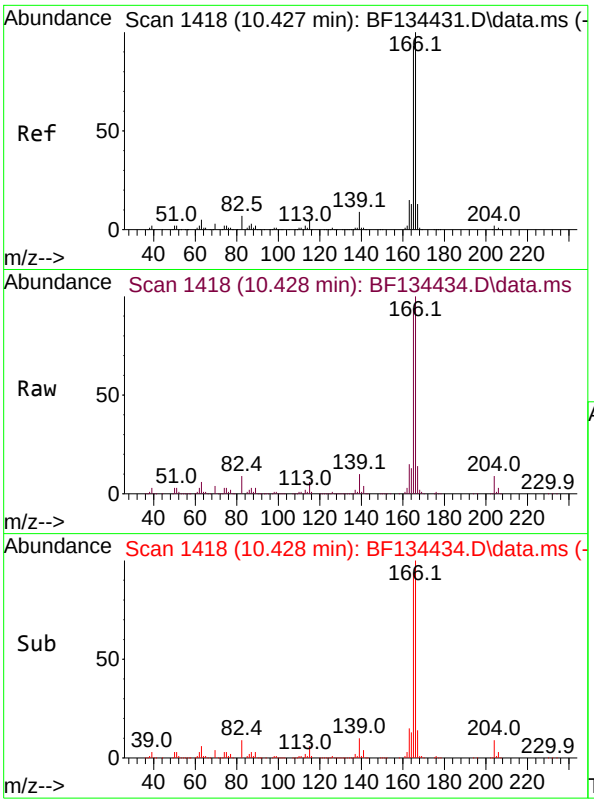


#57
2,4-Dinitrotoluene
Concen: 78.352 ng
RT: 10.081 min Scan# 1359
Delta R.T. 0.006 min
Lab File: BF134434.D
Acq: 24 Jul 2023 17:44

Tgt Ion:165 Resp: 168360

Ion	Ratio	Lower	Upper
165	100		
63	73.3	48.9	73.3
89	88.6	61.7	92.5
182	2.8	2.0	3.0

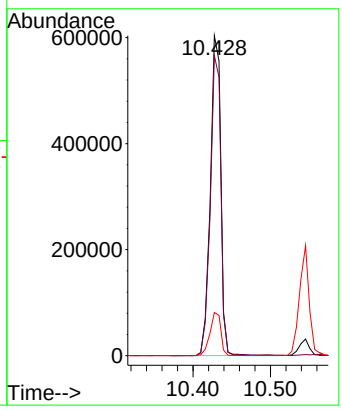




#58
Fluorene
Concen: 76.713 ng
RT: 10.428 min Scan# 14
Delta R.T. 0.001 min
Lab File: BF134434.D
Acq: 24 Jul 2023 17:44

Tgt Ion:166 Resp: 56807

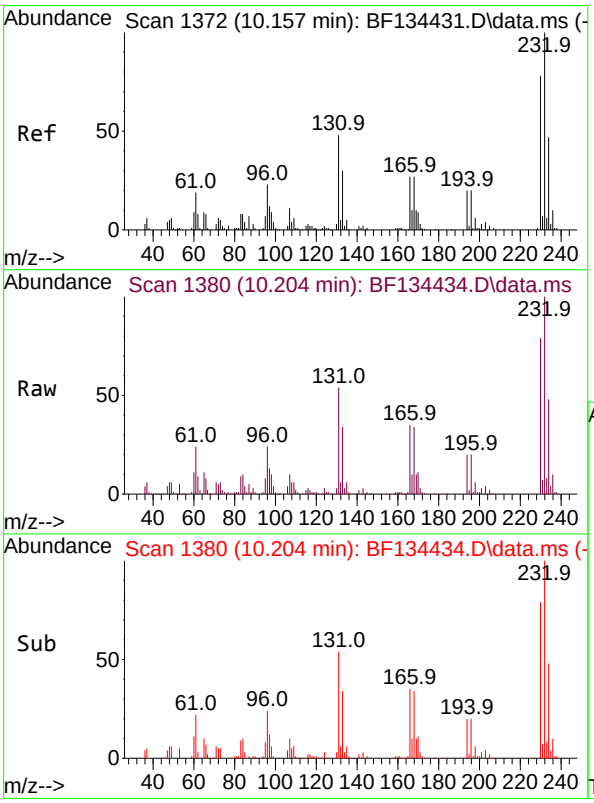
Ion	Ratio	Lower	Upper
166	100		
165	93.7	74.5	111.7
167	13.5	10.6	16.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

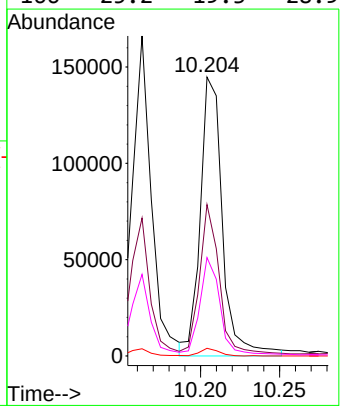
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

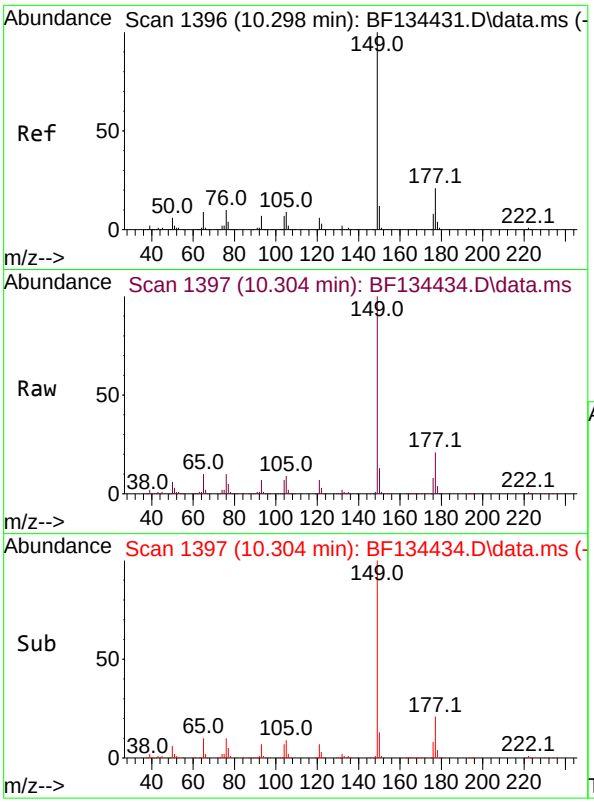


#59
2,3,4,6-Tetrachlorophenol
Concen: 79.033 ng m
RT: 10.204 min Scan# 1380
Delta R.T. 0.000 min
Lab File: BF134434.D
Acq: 24 Jul 2023 17:44

Tgt Ion:232 Resp: 141994

Ion	Ratio	Lower	Upper
232	100		
131	42.8	33.4	50.0
130	2.4	1.8	2.6
166	25.2	19.3	28.9

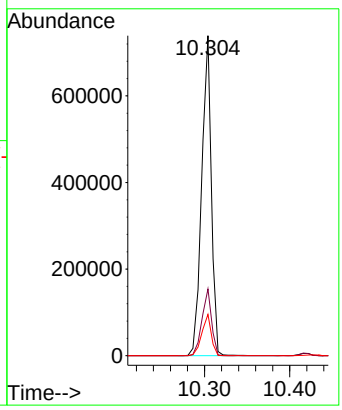




#60
Diethylphthalate
Concen: 77.028 ng
RT: 10.304 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF134434.D
Acq: 24 Jul 2023 17:44

Tgt Ion:149 Resp: 58145

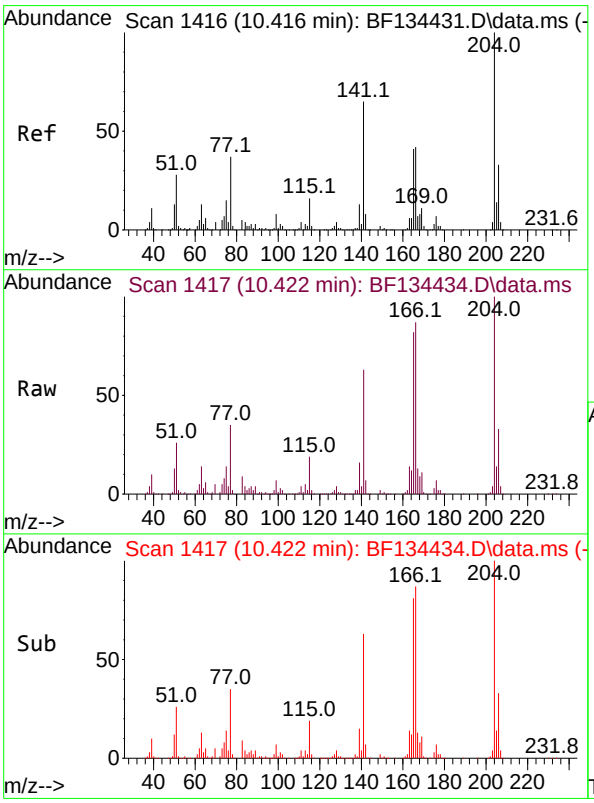
Ion	Ratio	Lower	Upper
149	100		
177	20.9	17.0	25.4
150	12.9	9.9	14.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

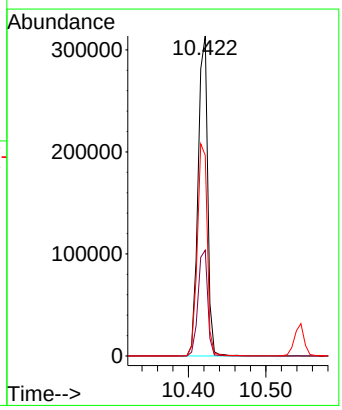
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

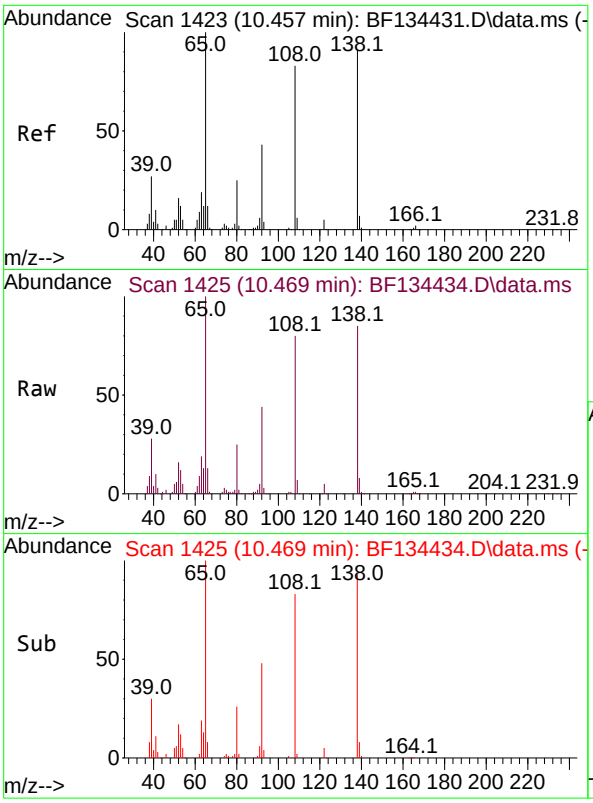


#61
4-Chlorophenyl-phenylether
Concen: 75.986 ng
RT: 10.422 min Scan# 1417
Delta R.T. 0.006 min
Lab File: BF134434.D
Acq: 24 Jul 2023 17:44

Tgt Ion:204 Resp: 268797

Ion	Ratio	Lower	Upper
204	100		
206	33.1	26.0	39.0
141	62.7	52.2	78.4

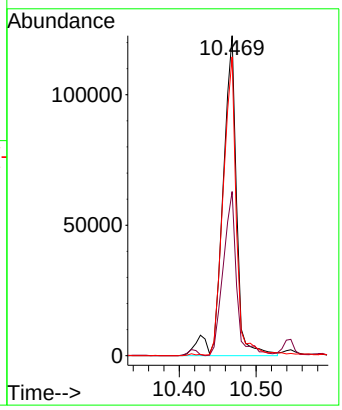




#62
4-Nitroaniline
Concen: 81.379 ng m
RT: 10.469 min Scan# 14
Delta R.T. 0.012 min
Lab File: BF134434.D
Acq: 24 Jul 2023 17:44

Tgt Ion:138 Resp: 15308

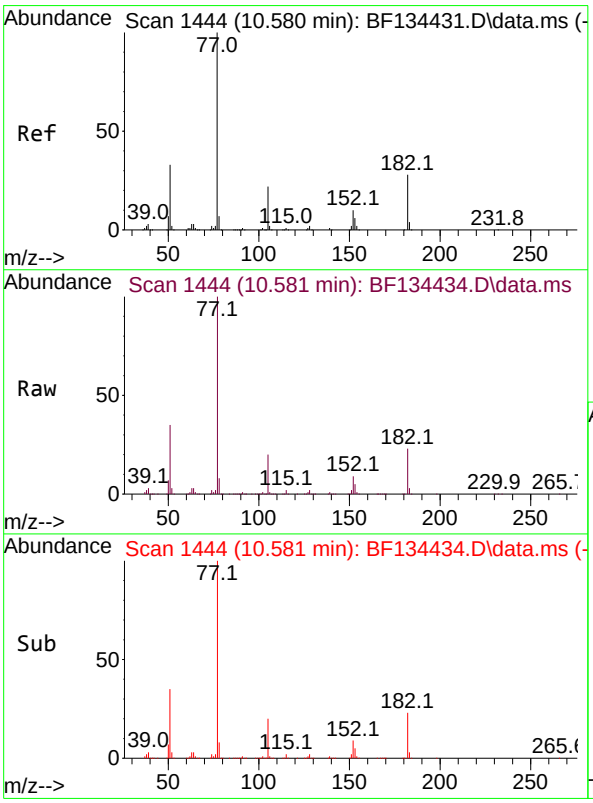
Ion	Ratio	Lower	Upper
138	100		
92	51.3	27.0	67.0
108	93.4	70.4	110.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

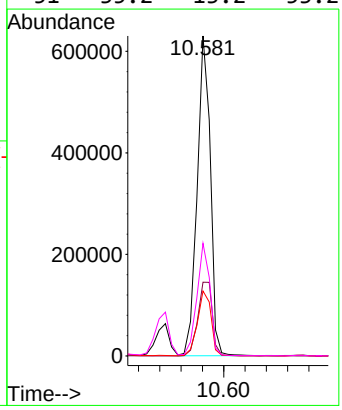
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

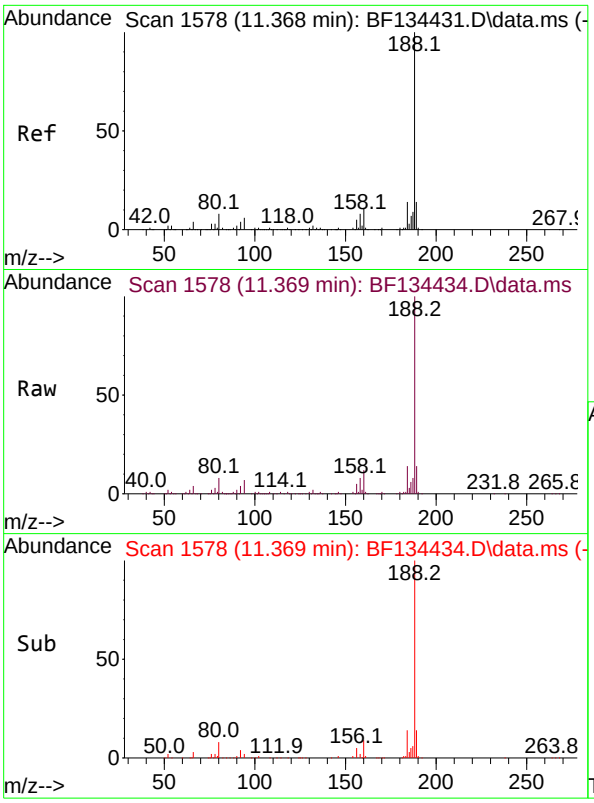


#63
Azobenzene
Concen: 77.931 ng
RT: 10.581 min Scan# 1444
Delta R.T. 0.000 min
Lab File: BF134434.D
Acq: 24 Jul 2023 17:44

Tgt Ion: 77 Resp: 541480

Ion	Ratio	Lower	Upper
77	100		
182	23.0	7.5	47.5
105	20.3	1.9	41.9
51	35.2	13.2	53.2

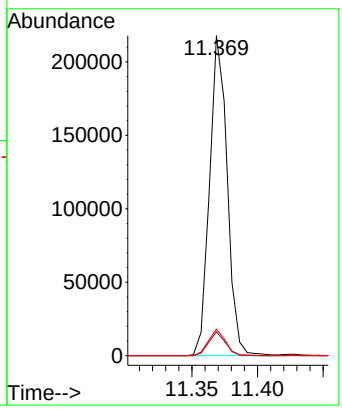




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.369 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134434.D
Acq: 24 Jul 2023 17:44

Tgt Ion:188 Resp: 20414

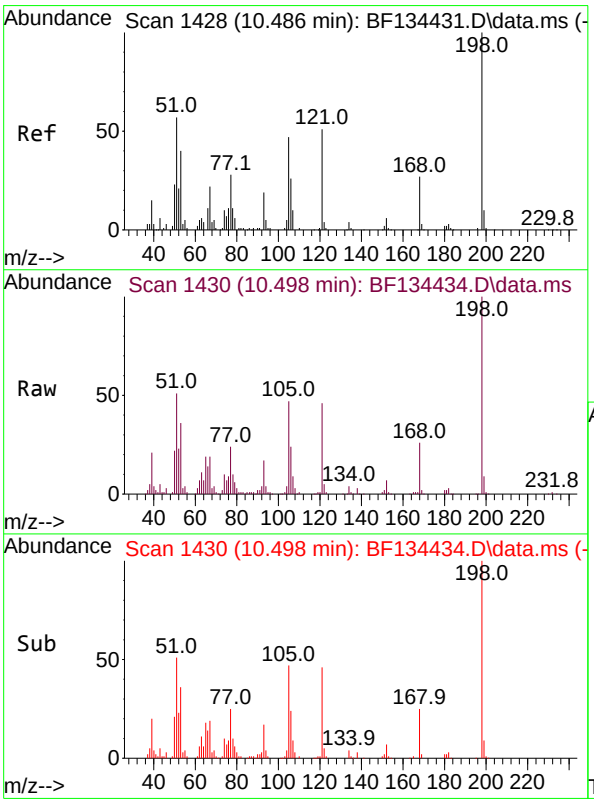
Ion	Ratio	Lower	Upper
188	100		
94	7.5	5.1	7.7
80	8.3	6.6	9.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

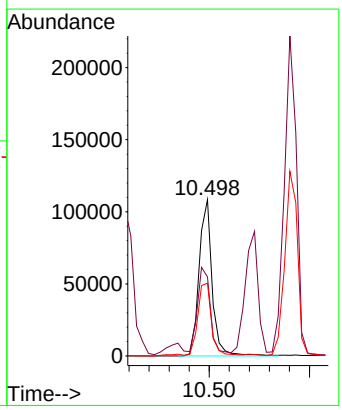
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

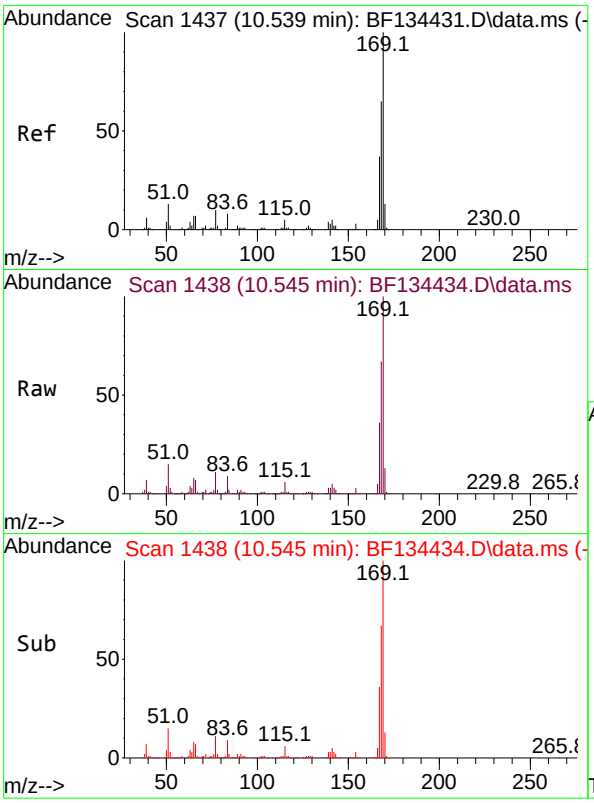


#65
4,6-Dinitro-2-methylphenol
Concen: 83.911 ng
RT: 10.498 min Scan# 1430
Delta R.T. 0.012 min
Lab File: BF134434.D
Acq: 24 Jul 2023 17:44

Tgt Ion:198 Resp: 98264

Ion	Ratio	Lower	Upper
198	100		
51	50.5	38.6	78.6
105	46.5	27.9	67.9

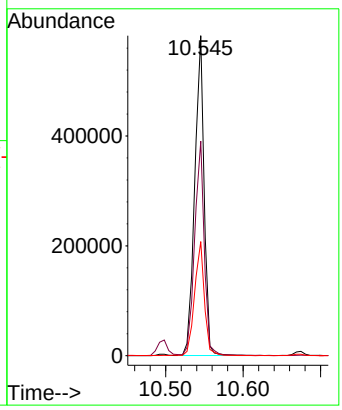




#66
n-Nitrosodiphenylamine
Concen: 75.532 ng
RT: 10.545 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF134434.D
Acq: 24 Jul 2023 17:44

Tgt Ion:169 Resp: 49058

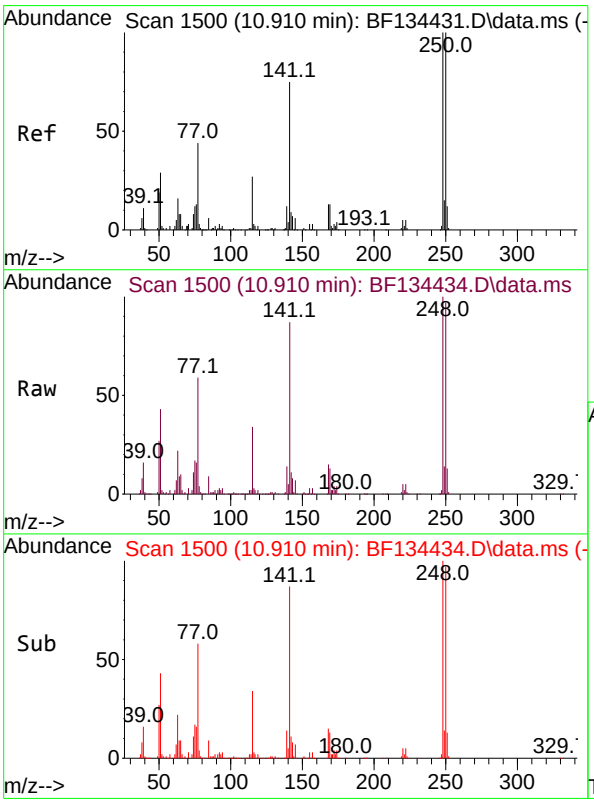
Ion	Ratio	Lower	Upper
169	100		
168	67.1	52.6	78.8
167	35.7	29.8	44.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

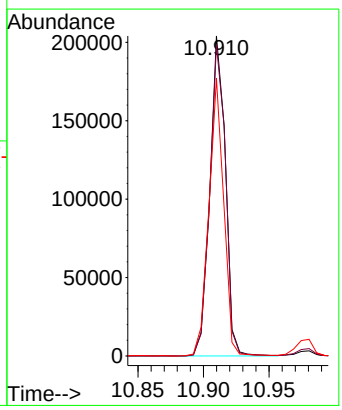
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

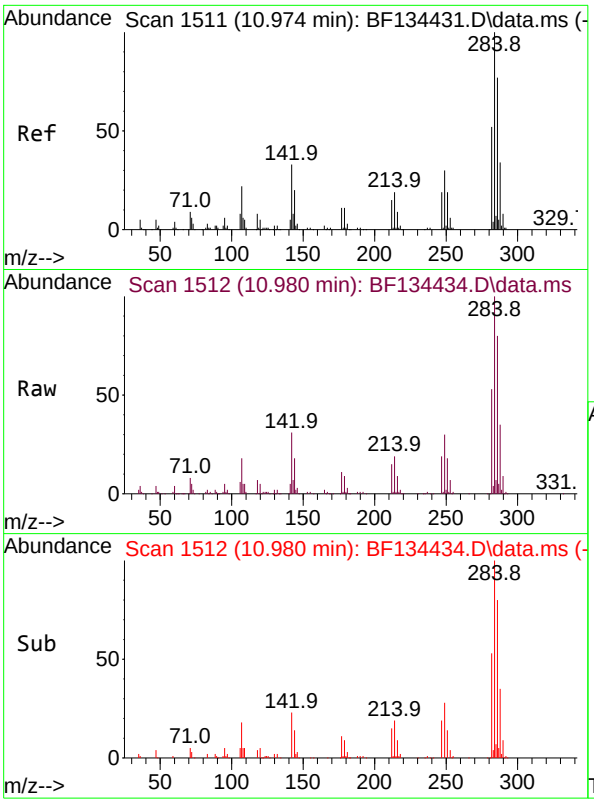


#67
4-Bromophenyl-phenylether
Concen: 75.417 ng
RT: 10.910 min Scan# 1500
Delta R.T. 0.000 min
Lab File: BF134434.D
Acq: 24 Jul 2023 17:44

Tgt Ion:248 Resp: 168689

Ion	Ratio	Lower	Upper
248	100		
250	97.3	79.6	119.4
141	86.8	59.6	89.4

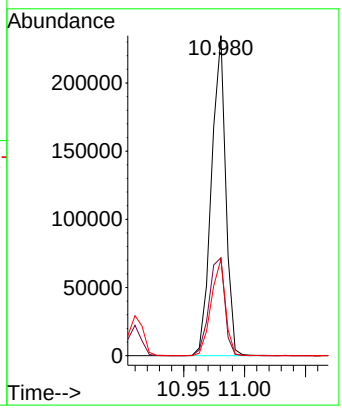




#68
Hexachlorobenzene
Concen: 75.478 ng
RT: 10.980 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF134434.D
Acq: 24 Jul 2023 17:44

Tgt Ion:284 Resp: 19011

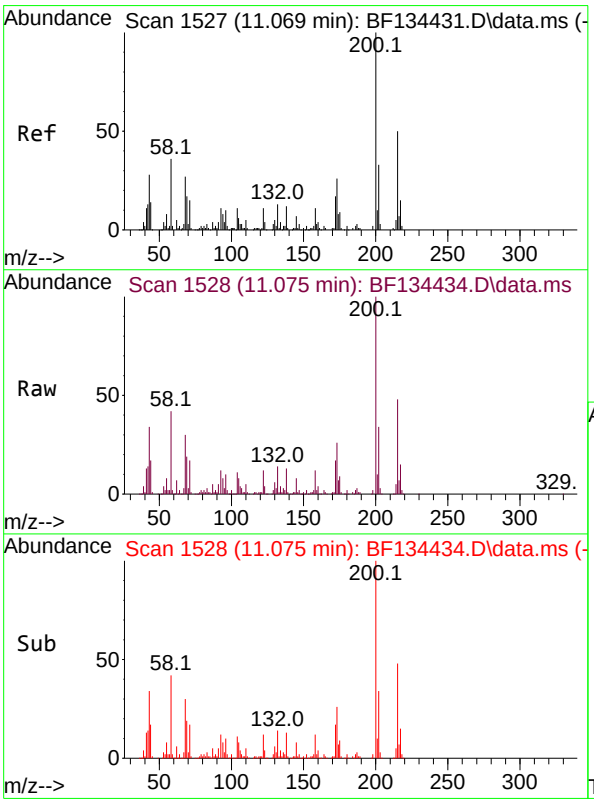
Ion	Ratio	Lower	Upper
284	100		
142	30.6	26.5	39.7
249	30.1	23.8	35.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

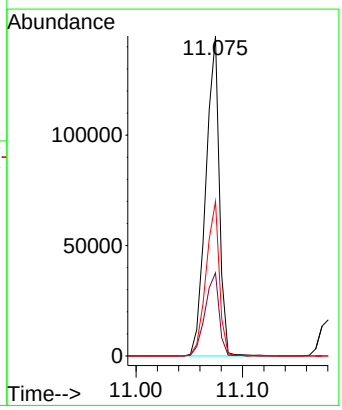
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

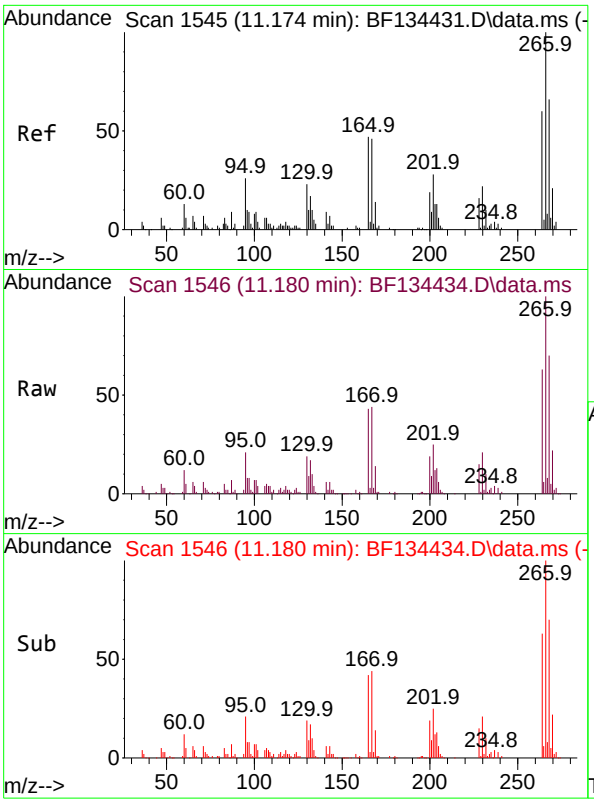


#69
Atrazine
Concen: 70.334 ng
RT: 11.075 min Scan# 1528
Delta R.T. 0.006 min
Lab File: BF134434.D
Acq: 24 Jul 2023 17:44

Tgt Ion:200 Resp: 127365

Ion	Ratio	Lower	Upper
200	100		
173	25.9	6.1	46.1
215	48.3	29.7	69.7

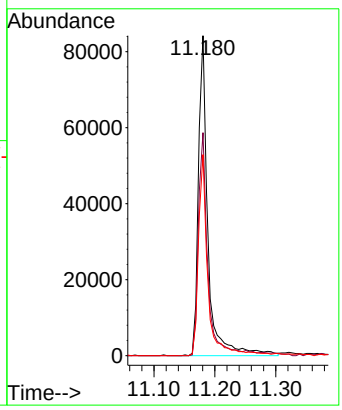




#70
Pentachlorophenol
Concen: 86.546 ng
RT: 11.180 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF134434.D
Acq: 24 Jul 2023 17:44

Tgt Ion:266 Resp: 9148

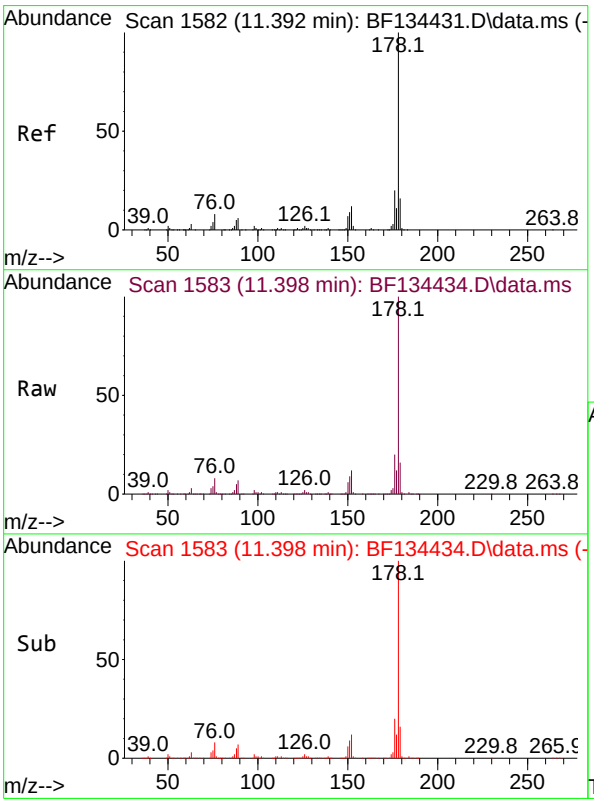
Ion	Ratio	Lower	Upper
266	100		
268	69.7	52.9	79.3
264	62.9	47.8	71.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

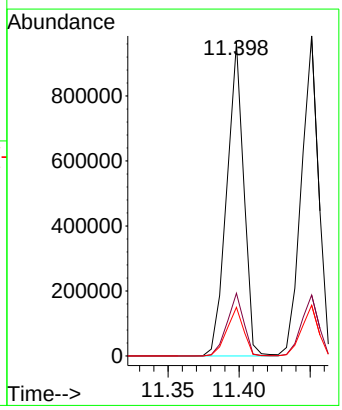
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

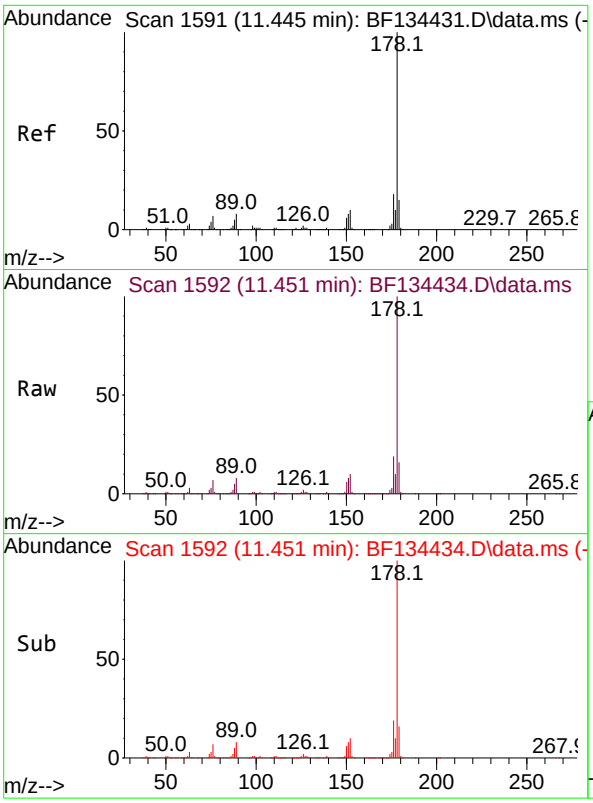


#71
Phenanthrene
Concen: 75.075 ng
RT: 11.398 min Scan# 1583
Delta R.T. 0.006 min
Lab File: BF134434.D
Acq: 24 Jul 2023 17:44

Tgt Ion:178 Resp: 800783

Ion	Ratio	Lower	Upper
178	100		
176	20.0	15.8	23.6
179	15.5	12.7	19.1

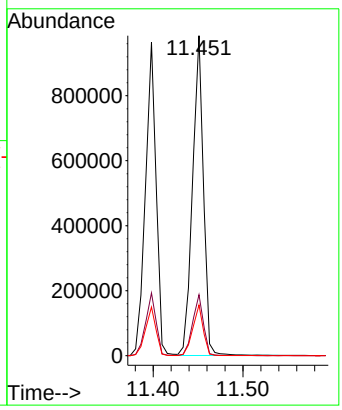




#72
Anthracene
Concen: 75.565 ng
RT: 11.451 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF134434.D
Acq: 24 Jul 2023 17:44

Tgt Ion:178 Resp: 83189

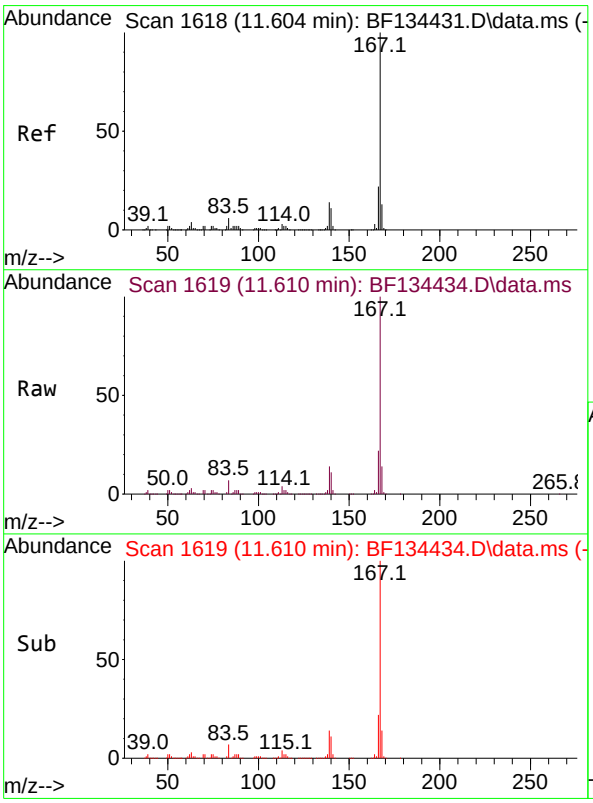
Ion	Ratio	Lower	Upper
178	100		
176	19.0	14.6	21.8
179	15.9	12.3	18.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

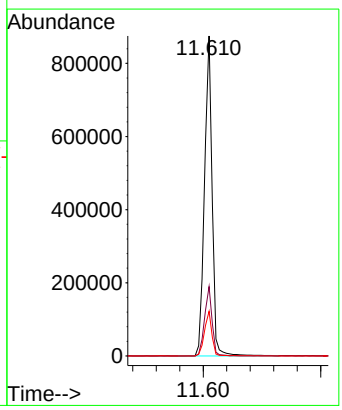
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

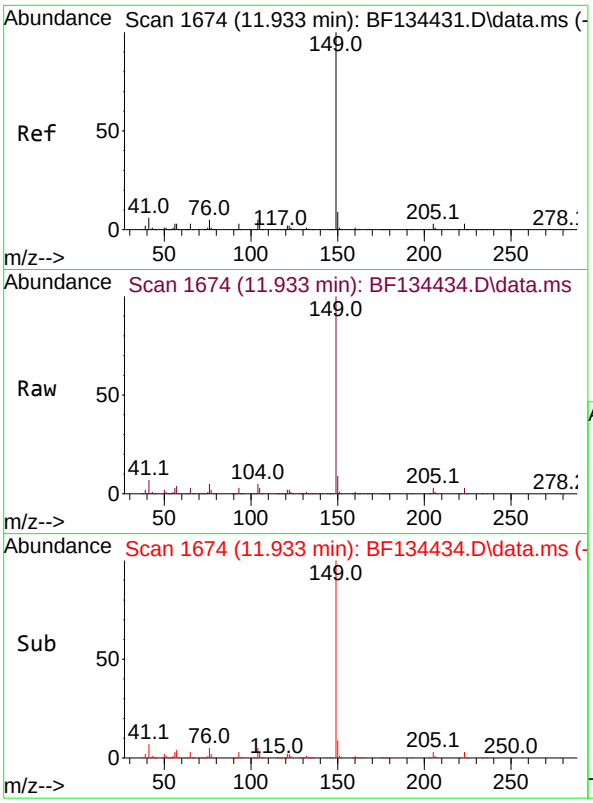


#73
Carbazole
Concen: 75.922 ng
RT: 11.610 min Scan# 1619
Delta R.T. 0.006 min
Lab File: BF134434.D
Acq: 24 Jul 2023 17:44

Tgt Ion:167 Resp: 787077

Ion	Ratio	Lower	Upper
167	100		
166	21.7	17.5	26.3
139	14.0	11.0	16.4

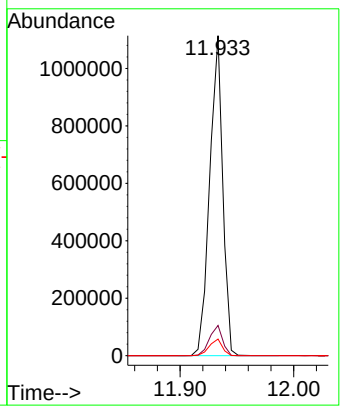




#74
Di-n-butylphthalate
Concen: 74.712 ng
RT: 11.933 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134434.D
Acq: 24 Jul 2023 17:44

Tgt Ion:149 Resp: 88910

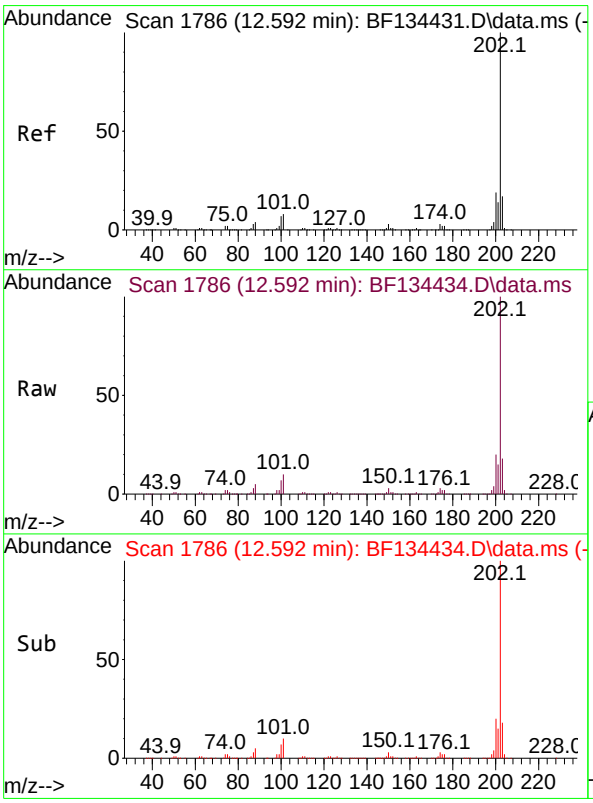
Ion	Ratio	Lower	Upper
149	100		
150	9.5	7.2	10.8
104	5.2	3.8	5.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

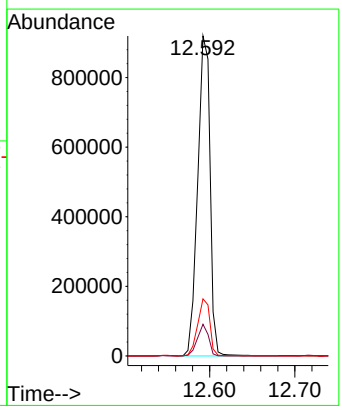
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

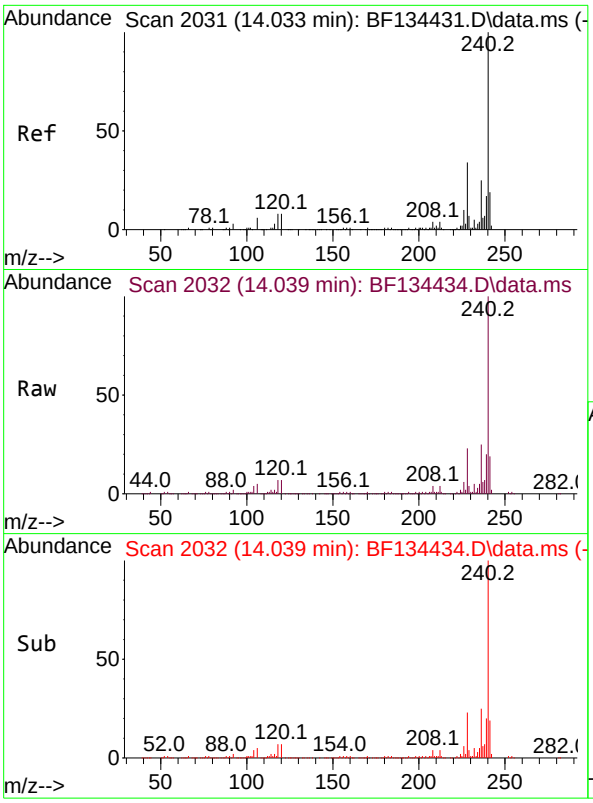


#75
Fluoranthene
Concen: 74.574 ng
RT: 12.592 min Scan# 1786
Delta R.T. 0.000 min
Lab File: BF134434.D
Acq: 24 Jul 2023 17:44

Tgt Ion:202 Resp: 927046

Ion	Ratio	Lower	Upper
202	100		
101	9.9	0.0	28.5
203	17.9	0.0	37.5

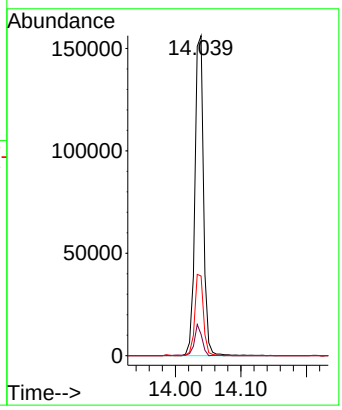




#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.039 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF134434.D
Acq: 24 Jul 2023 17:44

Tgt Ion:240 Resp: 14325

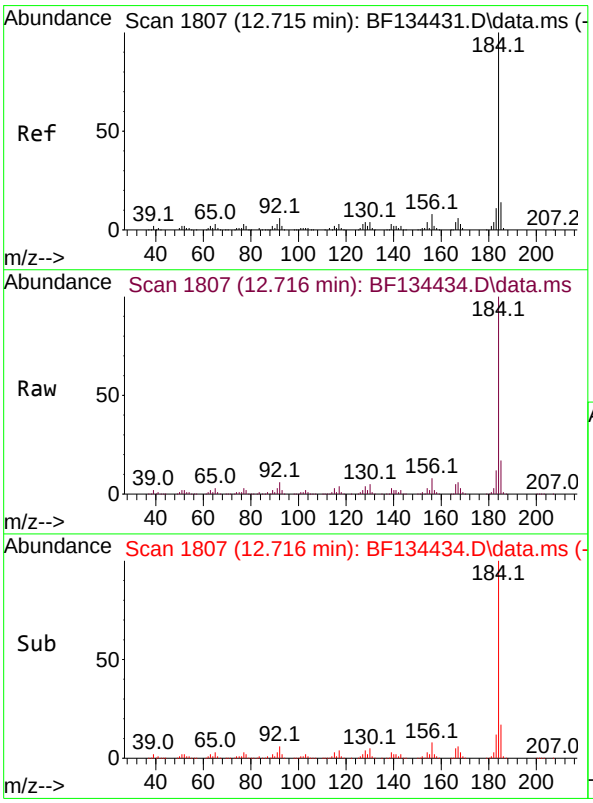
Ion	Ratio	Lower	Upper
240	100		
120	6.7	6.6	10.0
236	24.9	20.2	30.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

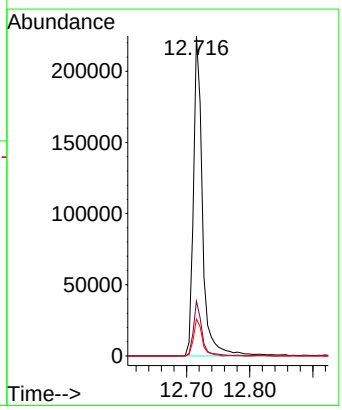
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

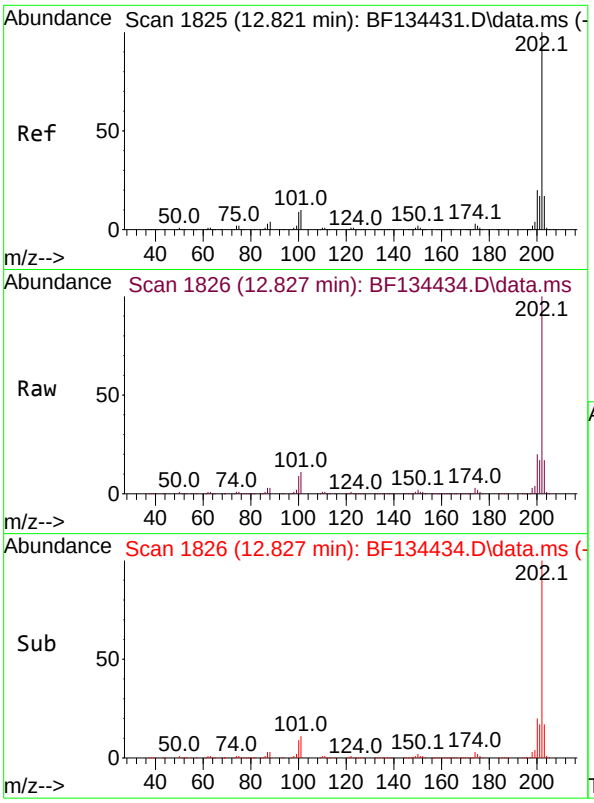


#77
Benzidine
Concen: 73.646 ng
RT: 12.716 min Scan# 1807
Delta R.T. 0.001 min
Lab File: BF134434.D
Acq: 24 Jul 2023 17:44

Tgt Ion:184 Resp: 225269

Ion	Ratio	Lower	Upper
184	100		
185	17.1	11.2	16.8#
183	11.6	8.6	13.0

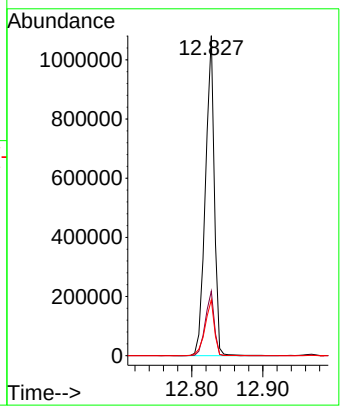




#78
Pyrene
Concen: 82.746 ng
RT: 12.827 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF134434.D
Acq: 24 Jul 2023 17:44

Tgt Ion:202 Resp: 94253

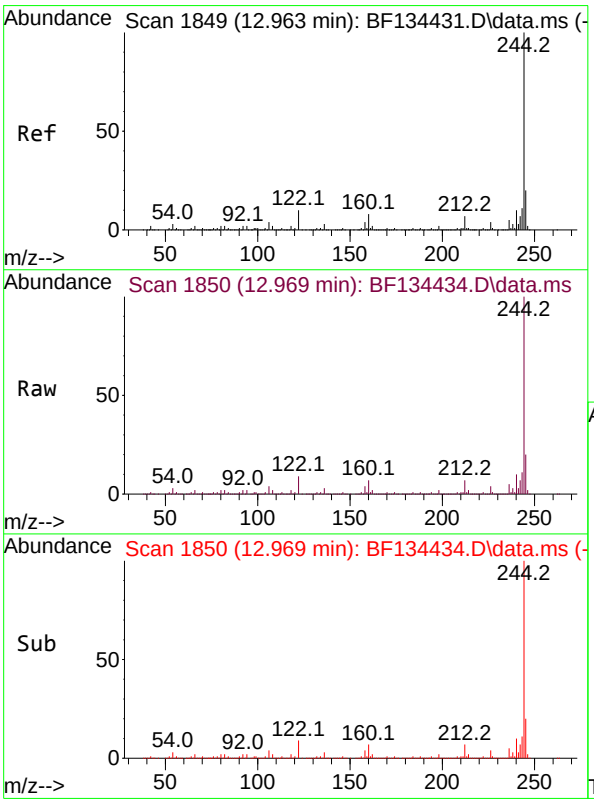
Ion	Ratio	Lower	Upper
202	100		
200	20.1	15.8	23.8
203	17.5	13.5	20.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

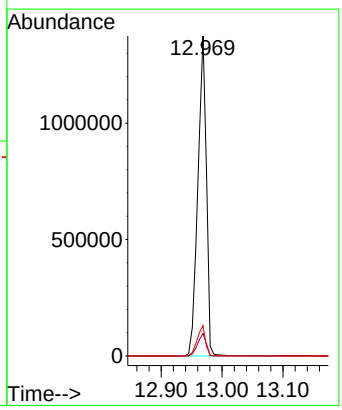
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

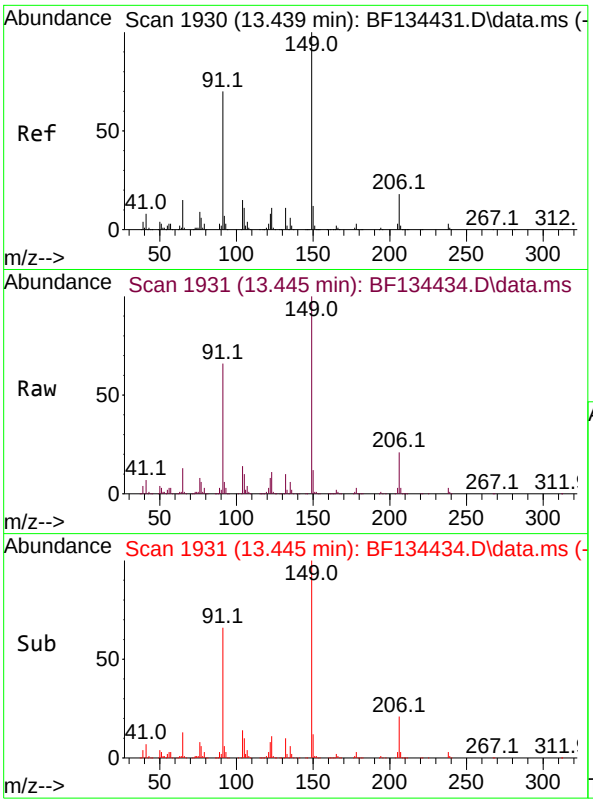


#79
Terphenyl-d14
Concen: 162.338 ng
RT: 12.969 min Scan# 1850
Delta R.T. 0.006 min
Lab File: BF134434.D
Acq: 24 Jul 2023 17:44

Tgt Ion:244 Resp: 1332223

Ion	Ratio	Lower	Upper
244	100		
212	7.0	5.6	8.4
122	9.5	8.0	12.0

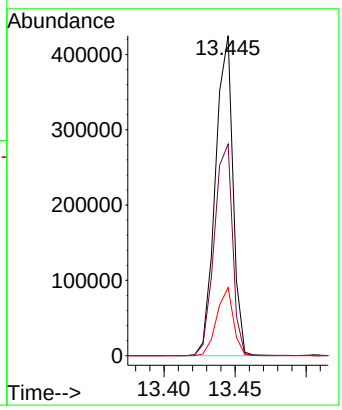




#80
Butylbenzylphthalate
Concen: 79.927 ng
RT: 13.445 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF134434.D
Acq: 24 Jul 2023 17:44

Tgt Ion:149 Resp: 36468

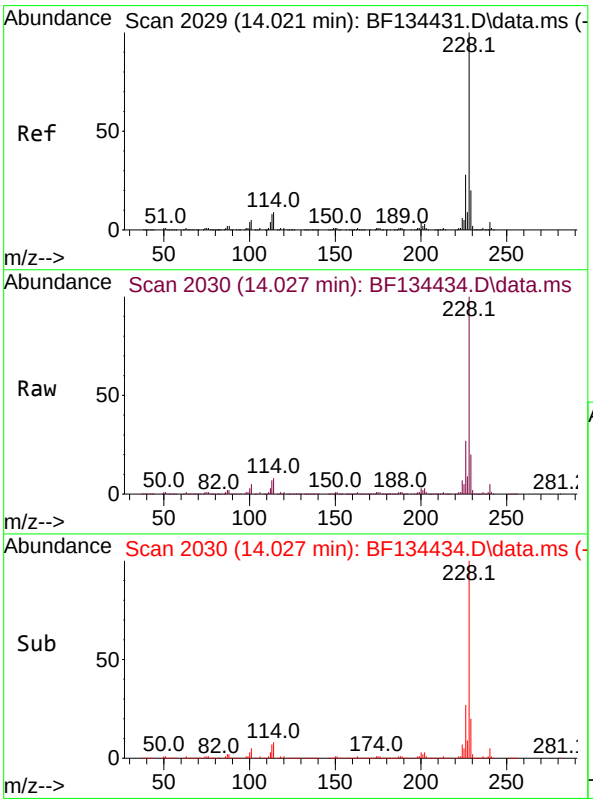
Ion	Ratio	Lower	Upper
149	100		
91	66.1	55.8	83.6
206	21.3	14.6	21.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

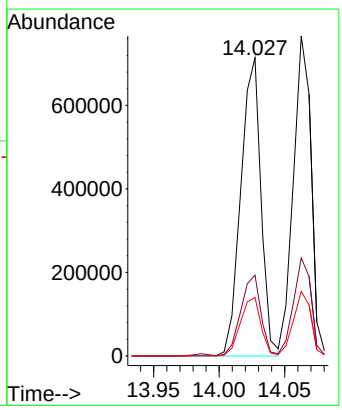
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

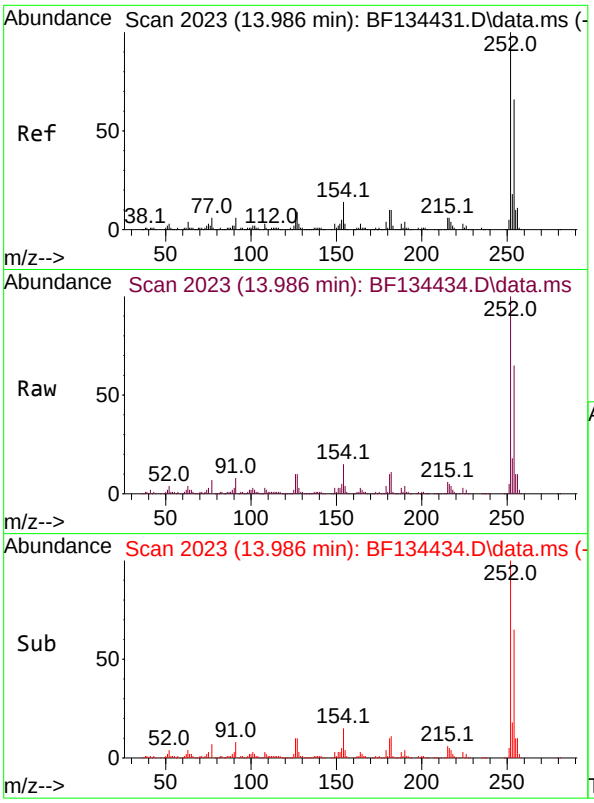


#81
Benzo(a)anthracene
Concen: 76.218 ng
RT: 14.027 min Scan# 2030
Delta R.T. 0.006 min
Lab File: BF134434.D
Acq: 24 Jul 2023 17:44

Tgt Ion:228 Resp: 761778

Ion	Ratio	Lower	Upper
228	100		
226	27.1	22.3	33.5
229	19.7	15.8	23.6

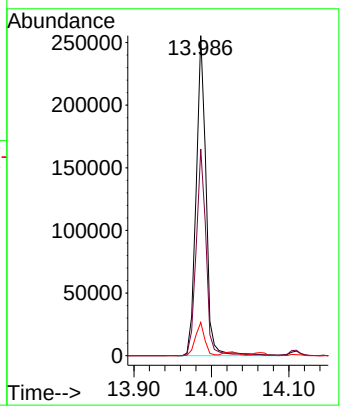




#82
3,3'-Dichlorobenzidine
Concen: 71.511 ng
RT: 13.986 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF134434.D
Acq: 24 Jul 2023 17:44

Tgt Ion:252 Resp: 22637

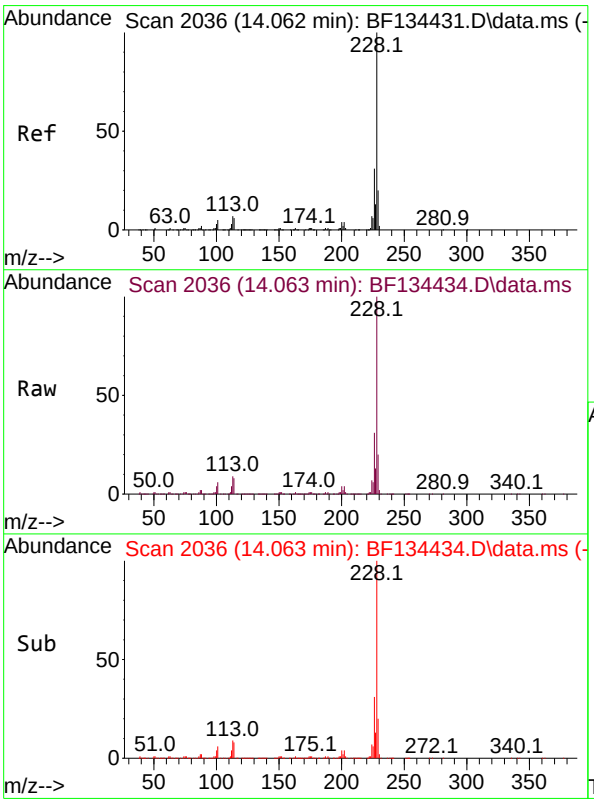
Ion	Ratio	Lower	Upper
252	100		
254	64.6	52.7	79.1
126	10.4	7.2	10.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

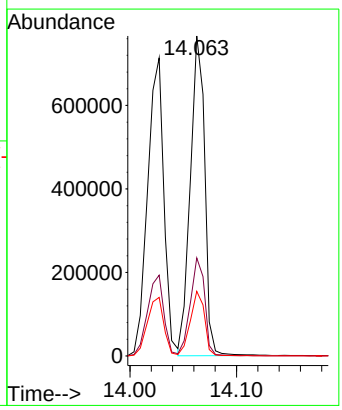
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

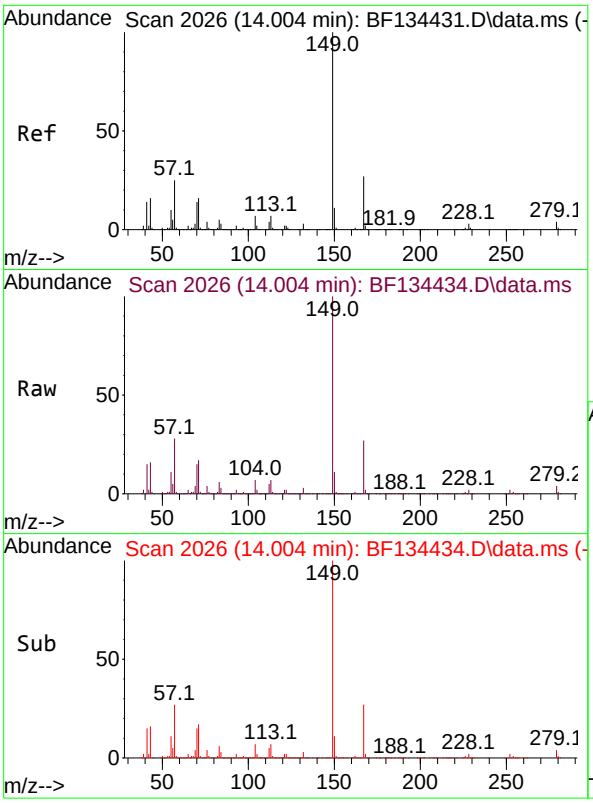


#83
Chrysene
Concen: 75.673 ng
RT: 14.063 min Scan# 2036
Delta R.T. 0.000 min
Lab File: BF134434.D
Acq: 24 Jul 2023 17:44

Tgt Ion:228 Resp: 723420

Ion	Ratio	Lower	Upper
228	100		
226	30.6	24.5	36.7
229	20.2	15.8	23.8

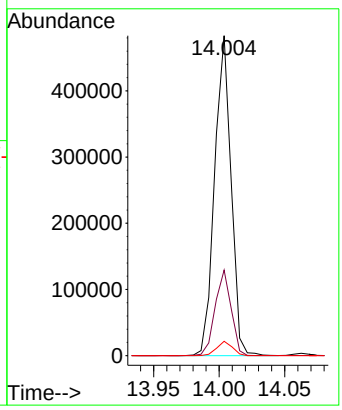




#84
Bis(2-ethylhexyl)phthalate
Concen: 75.975 ng
RT: 14.004 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF134434.D
Acq: 24 Jul 2023 17:44

Tgt Ion:149 Resp: 42114

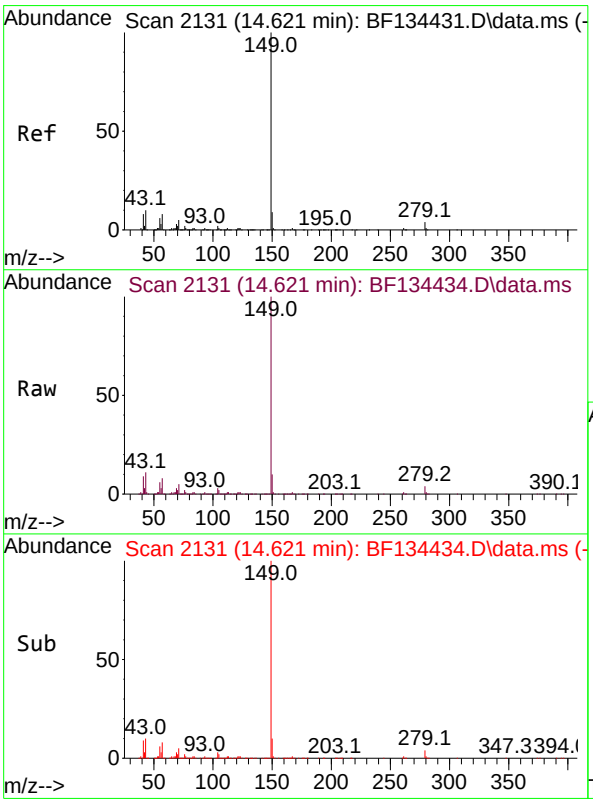
Ion	Ratio	Lower	Upper
149	100		
167	26.8	21.6	32.4
279	4.5	3.5	5.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

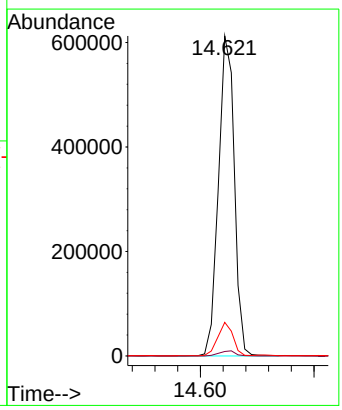
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

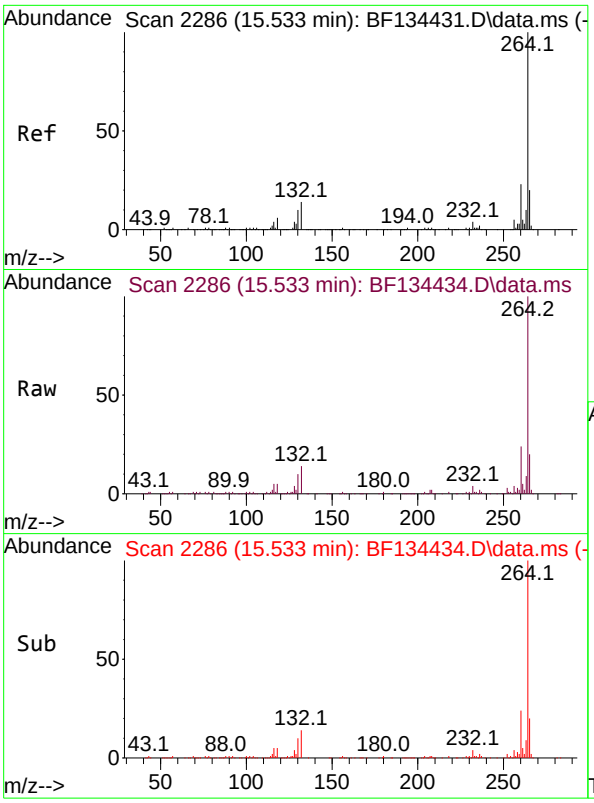


#85
Di-n-octyl phthalate
Concen: 77.330 ng
RT: 14.621 min Scan# 2131
Delta R.T. 0.000 min
Lab File: BF134434.D
Acq: 24 Jul 2023 17:44

Tgt Ion:149 Resp: 595691

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.2	1.8
43	10.0	8.1	12.1

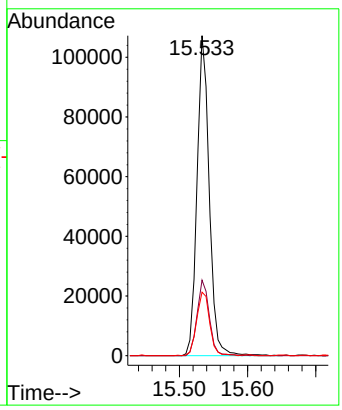




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.533 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF134434.D
Acq: 24 Jul 2023 17:44

Tgt Ion:264 Resp: 13354

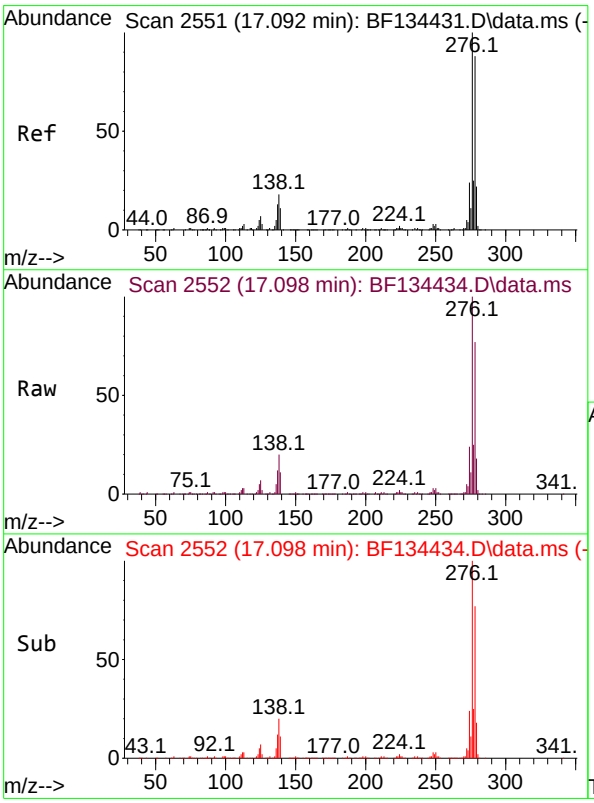
Ion	Ratio	Lower	Upper
264	100		
260	23.6	18.4	27.6
265	19.9	15.8	23.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

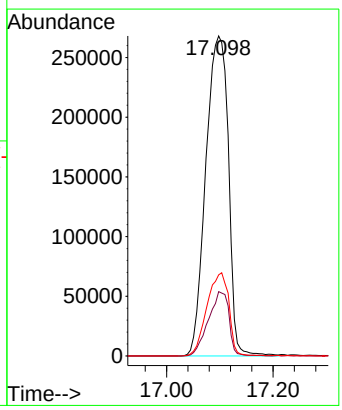
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

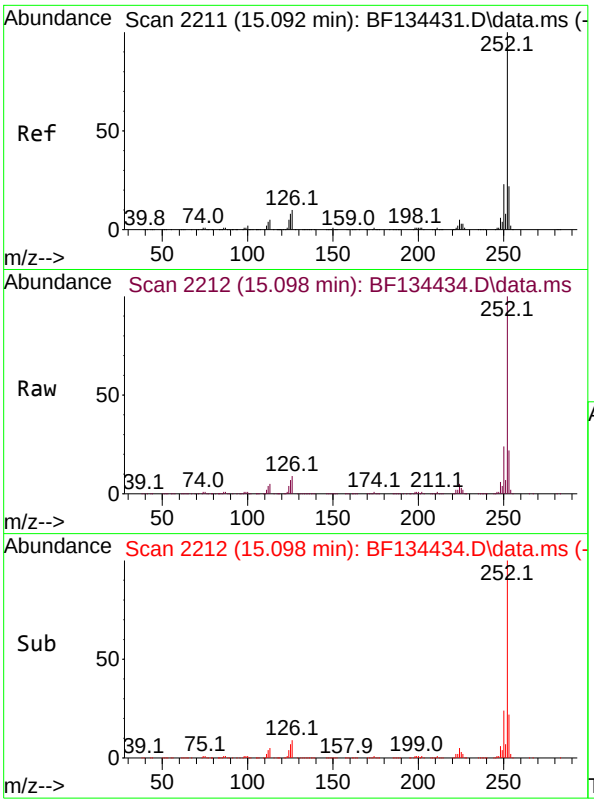


#87
Indeno(1,2,3-cd)pyrene
Concen: 90.451 ng
RT: 17.098 min Scan# 2552
Delta R.T. 0.006 min
Lab File: BF134434.D
Acq: 24 Jul 2023 17:44

Tgt Ion:276 Resp: 789114

Ion	Ratio	Lower	Upper
276	100		
138	18.4	14.2	21.4
277	25.3	19.9	29.9

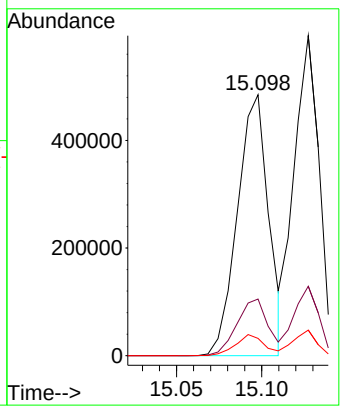




#88
Benzo(b)fluoranthene
Concen: 73.929 ng
RT: 15.098 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF134434.D
Acq: 24 Jul 2023 17:44

Tgt Ion:252 Resp: 61762

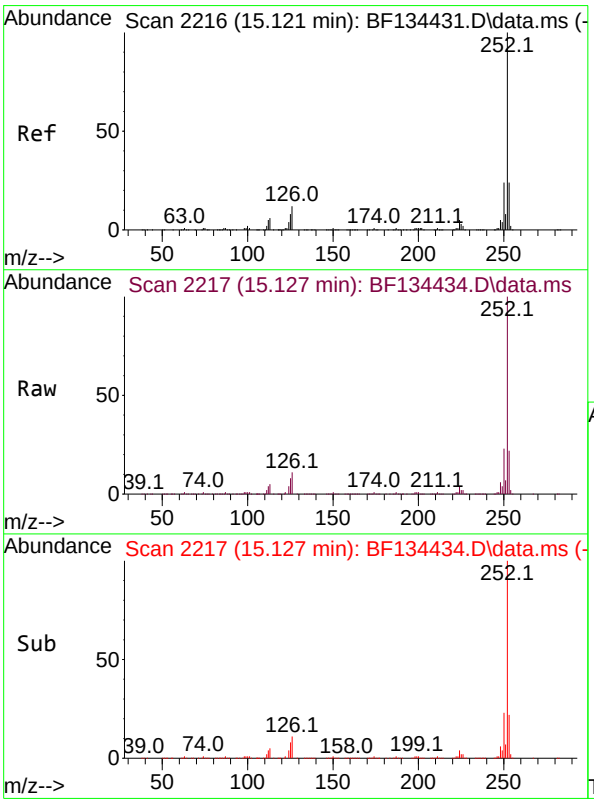
Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.3	25.9
125	6.6	6.0	9.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

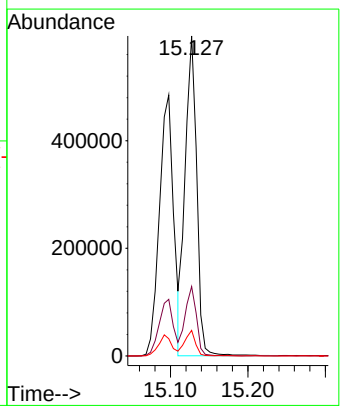
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

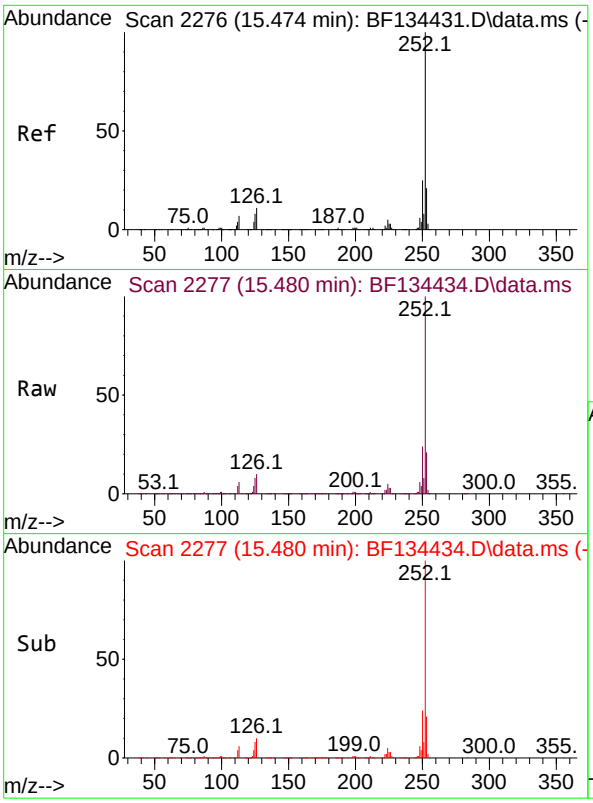


#89
Benzo(k)fluoranthene
Concen: 75.287 ng
RT: 15.127 min Scan# 2217
Delta R.T. 0.006 min
Lab File: BF134434.D
Acq: 24 Jul 2023 17:44

Tgt Ion:252 Resp: 618702

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.9	26.9
125	8.0	6.3	9.5

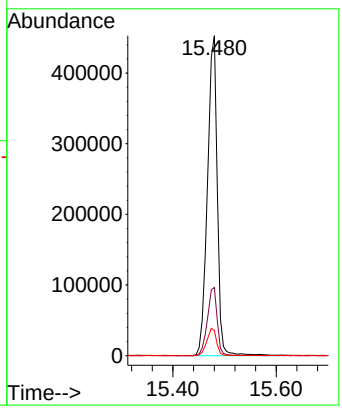




#90
Benzo(a)pyrene
Concen: 77.431 ng
RT: 15.480 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF134434.D
Acq: 24 Jul 2023 17:44

Tgt Ion:252 Resp: 59792

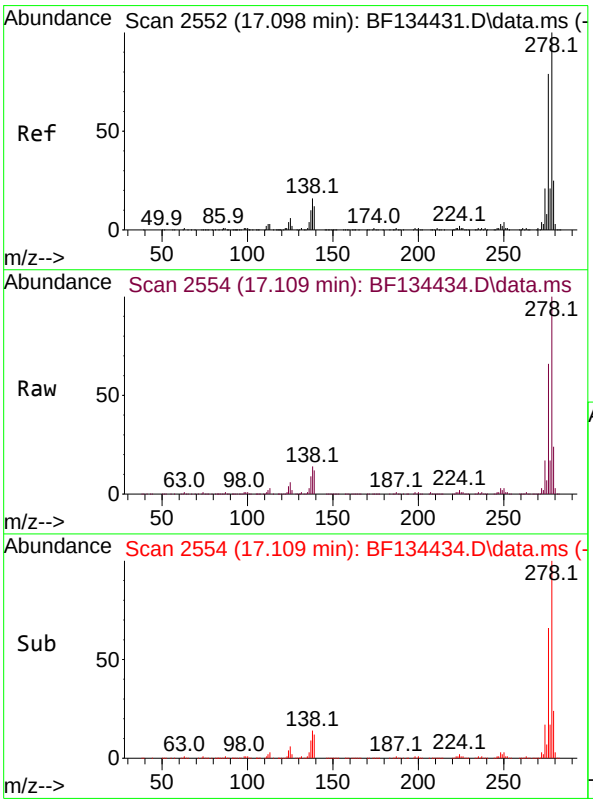
Ion	Ratio	Lower	Upper
252	100		
253	21.3	17.0	25.4
125	7.9	6.2	9.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

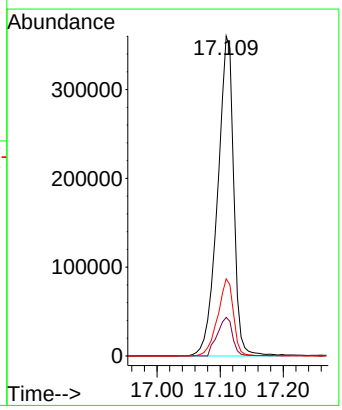
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

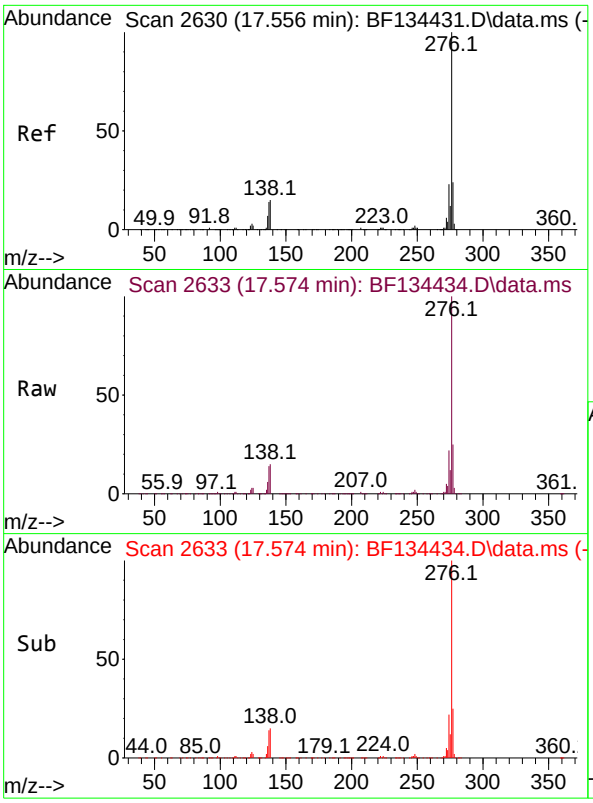


#91
Dibenzo(a,h)anthracene
Concen: 90.750 ng
RT: 17.109 min Scan# 2554
Delta R.T. 0.012 min
Lab File: BF134434.D
Acq: 24 Jul 2023 17:44

Tgt Ion:278 Resp: 639384

Ion	Ratio	Lower	Upper
278	100		
139	12.1	10.0	15.0
279	24.1	19.7	29.5

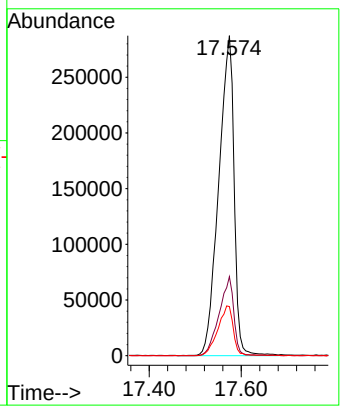




#92
Benzo(g,h,i)perylene
Concen: 91.785 ng
RT: 17.574 min Scan# 2
Delta R.T. 0.018 min
Lab File: BF134434.D
Acq: 24 Jul 2023 17:44

Tgt Ion:276 Resp: 66400

Ion	Ratio	Lower	Upper
276	100		
277	24.7	19.0	28.6
138	15.4	12.2	18.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF072423\
Data File : BF134435.D
Acq On : 24 Jul 2023 18:16
Operator : CG\JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF072423

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

Quant Time: Jul 25 01:47:04 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF072423.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 25 01:46:04 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.834	152	54335	20.000	ng		0.00
21) Naphthalene-d8	8.116	136	191695	20.000	ng		0.00
39) Acenaphthene-d10	9.875	164	93898	20.000	ng		0.00
64) Phenanthrene-d10	11.369	188	189337	20.000	ng		0.00
76) Chrysene-d12	14.033	240	150677	20.000	ng		0.00
86) Perylene-d12	15.533	264	131249	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.469	112	271227	82.473	ng		0.00
7) Phenol-d6	6.475	99	324172	80.455	ng		0.00
23) Nitrobenzene-d5	7.404	82	316162	83.445	ng		0.00
42) 2,4,6-Tribromophenol	10.669	330	109719	82.241	ng		0.00
45) 2-Fluorobiphenyl	9.192	172	577635	80.759	ng		0.00
79) Terphenyl-d14	12.963	244	697202	80.774	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.587	88	54412	39.007	ng		95
3) Pyridine	3.375	79	135850	43.386	ng		100
4) n-Nitrosodimethylamine	3.340	42	79434	42.927	ng		94
6) Aniline	6.504	93	193885	40.828	ng		100
8) 2-Chlorophenol	6.622	128	134489	40.367	ng		99
9) Benzaldehyde	6.392	77	83373	38.639	ng		100
10) Phenol	6.492	94	168231	40.129	ng		98
11) bis(2-Chloroethyl)ether	6.575	93	117071	40.002	ng		95
12) 1,3-Dichlorobenzene	6.775	146	143108	39.945	ng		100
13) 1,4-Dichlorobenzene	6.851	146	149563	40.566	ng		98
14) 1,2-Dichlorobenzene	7.004	146	138934	40.116	ng		97
15) Benzyl Alcohol	6.981	79	124866	40.137	ng		100
16) 2,2'-oxybis(1-Chloropr...	7.110	45	176296	40.906	ng		97
17) 2-Methylphenol	7.092	107	116240	39.121	ng		99
18) Hexachloroethane	7.339	117	55467	39.159	ng		97
19) n-Nitroso-di-n-propyla...	7.245	70	97024	38.681	ng		98
20) 3+4-Methylphenols	7.245	107	149474	39.291	ng		95
22) Acetophenone	7.245	105	192226	40.320	ng		97
24) Nitrobenzene	7.422	77	153989	40.867	ng		98
25) Isophorone	7.657	82	253233	40.103	ng		99
26) 2-Nitrophenol	7.734	139	70973	40.952	ng		100
27) 2,4-Dimethylphenol	7.769	122	113306	41.429	ng		95
28) bis(2-Chloroethoxy)met...	7.863	93	142251	40.472	ng		99
29) 2,4-Dichlorophenol	7.975	162	110924	40.572	ng		96
30) 1,2,4-Trichlorobenzene	8.057	180	118125	40.054	ng		98
31) Naphthalene	8.134	128	383013	40.147	ng		99
32) Benzoic acid	7.892	122	76207	41.715	ng	#	72
33) 4-Chloroaniline	8.192	127	159941	40.558	ng		100
34) Hexachlorobutadiene	8.245	225	79406	40.192	ng		99
35) Caprolactam	8.563	113	34096	40.785	ng		93
36) 4-Chloro-3-methylphenol	8.675	107	127291	40.350	ng		97
37) 2-Methylnaphthalene	8.828	142	265184	40.005	ng		100
38) 1-Methylnaphthalene	8.928	142	246692	40.115	ng		97
40) 1,2,4,5-Tetrachloroben...	8.992	216	121906	40.968	ng		98
41) Hexachlorocyclopentadiene	8.975	237	31925	41.716	ng		95
43) 2,4,6-Trichlorophenol	9.110	196	77371	40.531	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF072423\
Data File : BF134435.D
Acq On : 24 Jul 2023 18:16
Operator : CG\JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF072423

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

Quant Time: Jul 25 01:47:04 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF072423.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 25 01:46:04 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.157	196	89439	40.214	ng		98
46) 1,1'-Biphenyl	9.292	154	312434	40.371	ng		99
47) 2-Chloronaphthalene	9.316	162	230301	40.366	ng		97
48) 2-Nitroaniline	9.422	65	86430	42.063	ng		95
49) Acenaphthylene	9.733	152	387631	40.216	ng		99
50) Dimethylphthalate	9.592	163	278812	40.055	ng		98
51) 2,6-Dinitrotoluene	9.663	165	61139	40.030	ng		94
52) Acenaphthene	9.904	154	233847	41.070	ng		99
53) 3-Nitroaniline	9.833	138	72844	41.598	ng		92
54) 2,4-Dinitrophenol	9.951	184	26897	37.380	ng		94
55) Dibenzofuran	10.080	168	352918	40.272	ng		99
56) 4-Nitrophenol	10.004	139	36653	39.250	ng		97
57) 2,4-Dinitrotoluene	10.075	165	85471	41.664	ng		96
58) Fluorene	10.422	166	285543	40.390	ng		100
59) 2,3,4,6-Tetrachlorophenol	10.204	232	69266m	40.536	ng		
60) Diethylphthalate	10.292	149	288724	40.064	ng		97
61) 4-Chlorophenyl-phenyle...	10.416	204	136697	40.476	ng		97
62) 4-Nitroaniline	10.451	138	74374m	41.397	ng		
63) Azobenzene	10.575	77	268799	40.522	ng		94
65) 4,6-Dinitro-2-methylph...	10.486	198	44320	40.807	ng		94
66) n-Nitrosodiphenylamine	10.533	169	242240	40.214	ng		97
67) 4-Bromophenyl-phenylether	10.904	248	82750	39.890	ng	#	90
68) Hexachlorobenzene	10.975	284	94329	40.380	ng		98
69) Atrazine	11.063	200	70061	41.716	ng		98
70) Pentachlorophenol	11.175	266	39806	40.604	ng		97
71) Phenanthrene	11.392	178	397618	40.194	ng		99
72) Anthracene	11.445	178	415714	40.715	ng		99
73) Carbazole	11.604	167	393414	40.918	ng		99
74) Di-n-butylphthalate	11.927	149	440899	39.947	ng		99
75) Fluoranthene	12.592	202	472182	40.955	ng		99
77) Benzidine	12.716	184	124160	38.592	ng		99
78) Pyrene	12.821	202	487618	40.700	ng		99
80) Butylbenzylphthalate	13.439	149	196621	40.971	ng		98
81) Benzo(a)anthracene	14.021	228	418909	39.849	ng		100
82) 3,3'-Dichlorobenzidine	13.980	252	127327	38.241	ng		99
83) Chrysene	14.057	228	410445	40.820	ng		99
84) Bis(2-ethylhexyl)phtha...	14.004	149	238928	40.980	ng		97
85) Di-n-octyl phthalate	14.621	149	325349	40.155	ng		99
87) Indeno(1,2,3-cd)pyrene	17.080	276	359192	41.890	ng		100
88) Benzo(b)fluoranthene	15.092	252	318704	38.814	ng		98
89) Benzo(k)fluoranthene	15.121	252	335553	41.555	ng		99
90) Benzo(a)pyrene	15.468	252	310144	40.864	ng		99
91) Dibenzo(a,h)anthracene	17.098	278	291582	42.108	ng		97
92) Benzo(g,h,i)perylene	17.551	276	304556	42.833	ng		98

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

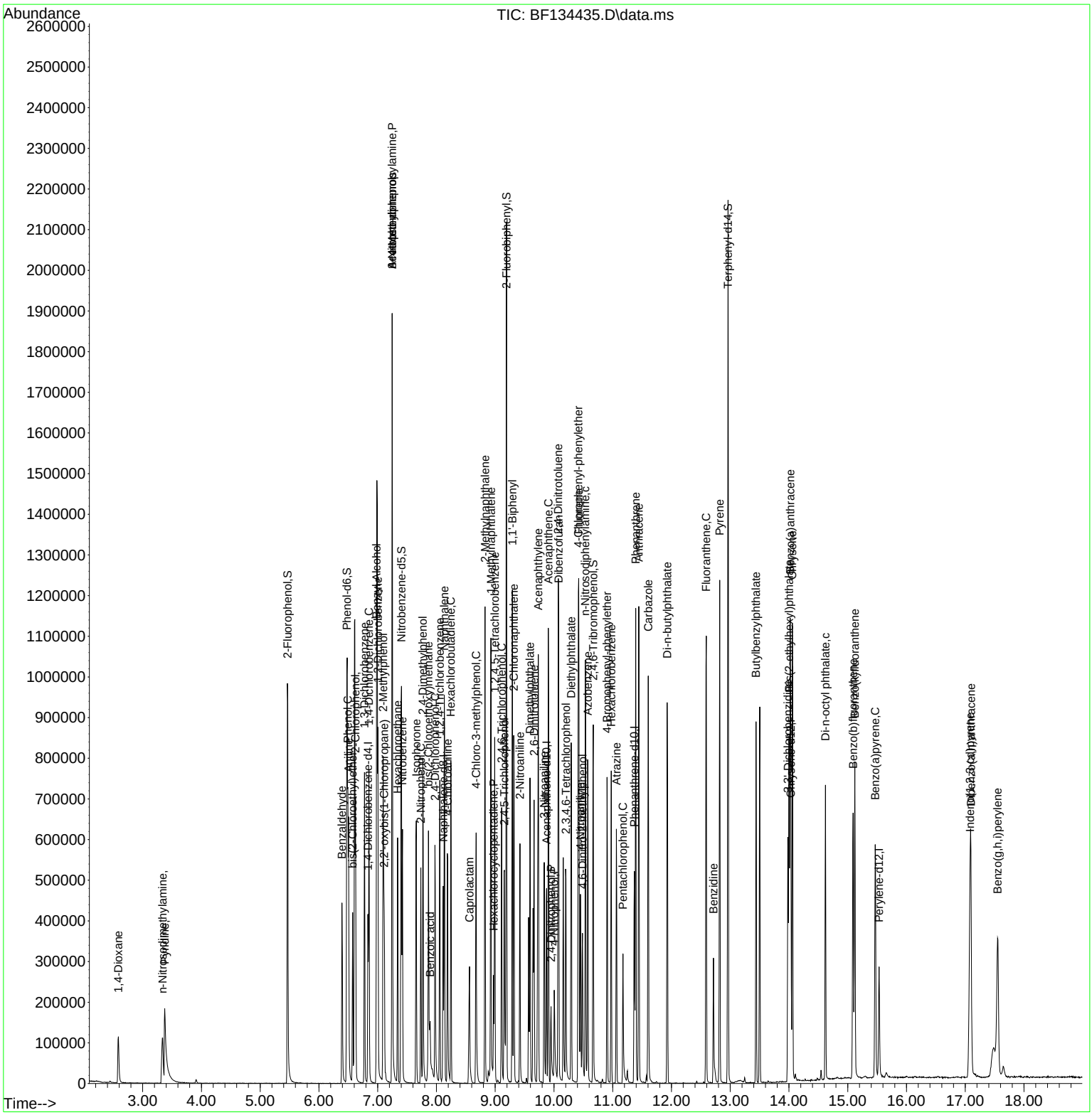
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF072423\
Data File : BF134435.D
Acq On : 24 Jul 2023 18:16
Operator : CG\JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

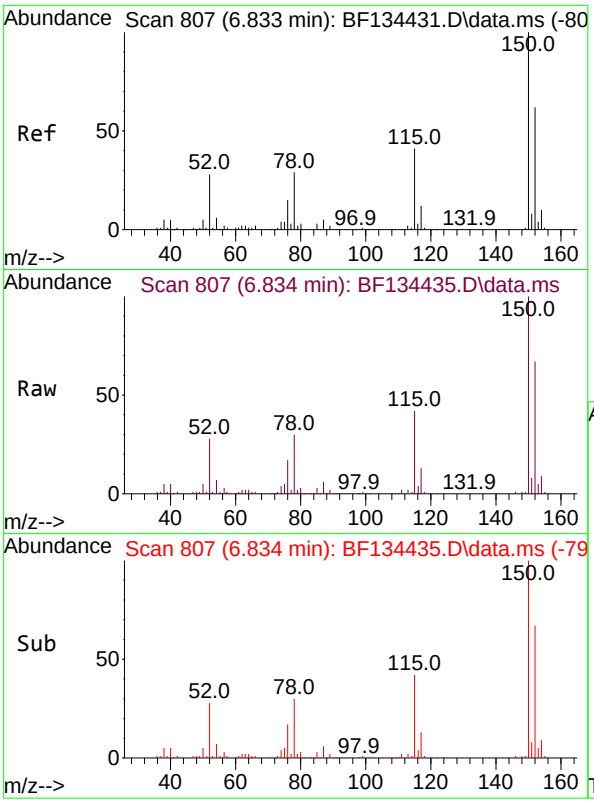
Quant Time: Jul 25 01:47:04 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF072423.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 25 01:46:04 2023
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
ICVBF072423

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

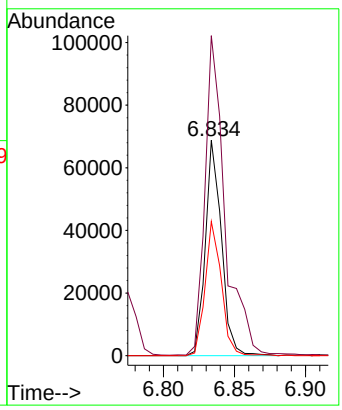




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.834 min Scan# 8
Delta R.T. 0.001 min
Lab File: BF134435.D
Acq: 24 Jul 2023 18:16

Tgt Ion:152 Resp: 5433

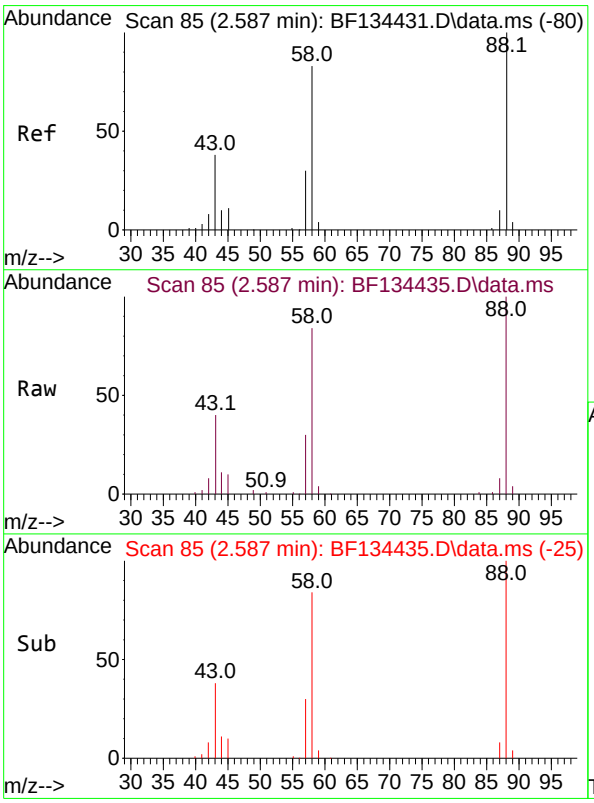
Ion	Ratio	Lower	Upper
152	100		
150	148.6	128.3	192.5
115	62.3	52.4	78.6



Instrument :
BNA_F
ClientSampleId :
ICVBF072423

Manual Integrations APPROVED

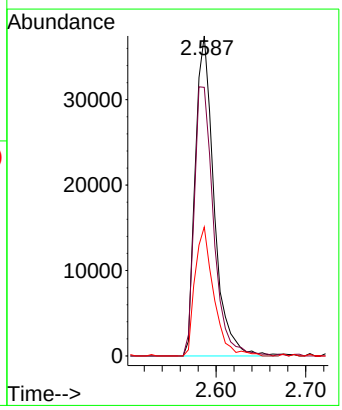
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

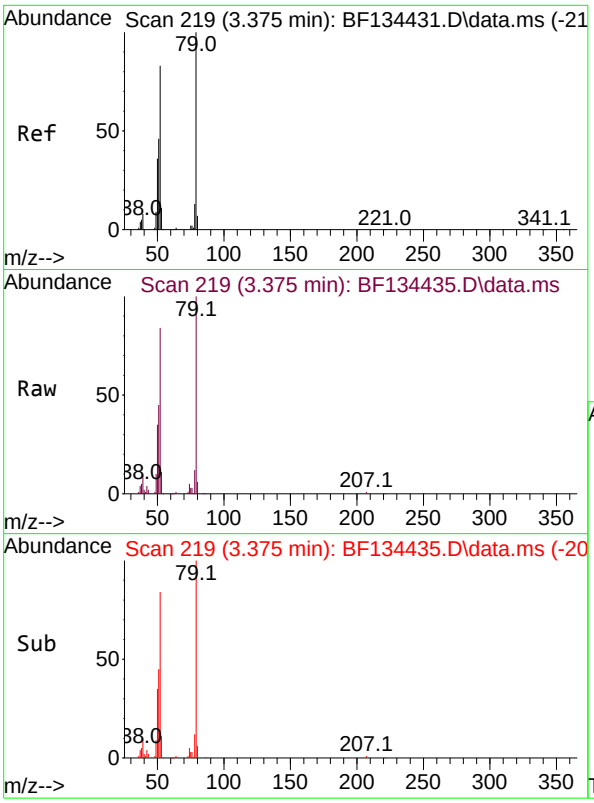


#2
1,4-Dioxane
Concen: 39.007 ng
RT: 2.587 min Scan# 85
Delta R.T. 0.000 min
Lab File: BF134435.D
Acq: 24 Jul 2023 18:16

Tgt Ion: 88 Resp: 54412

Ion	Ratio	Lower	Upper
88	100		
58	86.4	65.1	97.7
43	40.2	30.3	45.5

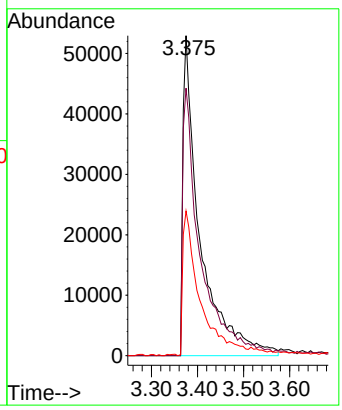




#3
Pyridine
Concen: 43.386 ng
RT: 3.375 min Scan# 21
Delta R.T. 0.000 min
Lab File: BF134435.D
Acq: 24 Jul 2023 18:16

Tgt Ion: 79 Resp: 13585

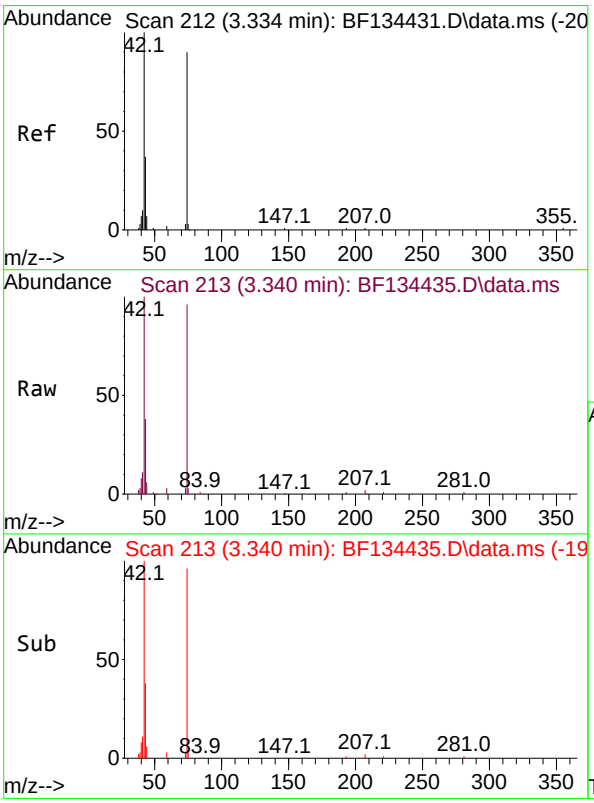
Ion	Ratio	Lower	Upper
79	100		
52	83.6	66.6	100.0
51	45.2	36.5	54.7



Instrument :
BNA_F
ClientSampleId :
ICVBF072423

Manual Integrations
APPROVED

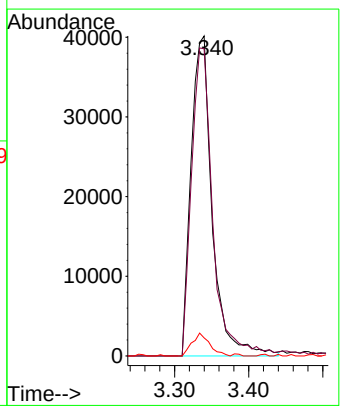
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

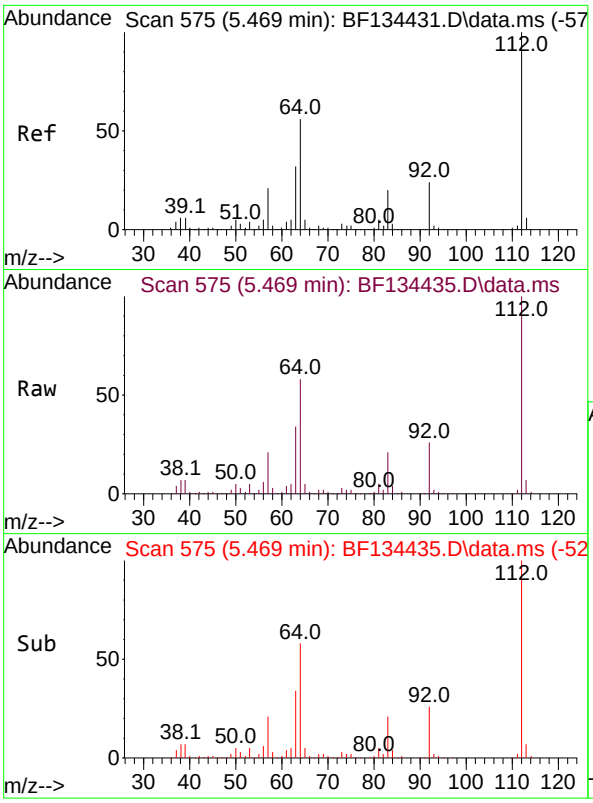


#4
n-Nitrosodimethylamine
Concen: 42.927 ng
RT: 3.340 min Scan# 213
Delta R.T. 0.006 min
Lab File: BF134435.D
Acq: 24 Jul 2023 18:16

Tgt Ion: 42 Resp: 79434

Ion	Ratio	Lower	Upper
42	100		
74	96.0	72.2	108.4
44	5.6	5.4	8.0

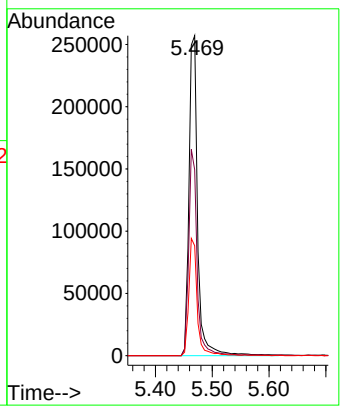




#5
2-Fluorophenol
Concen: 82.473 ng
RT: 5.469 min Scan# 5
Delta R.T. 0.000 min
Lab File: BF134435.D
Acq: 24 Jul 2023 18:16

Tgt Ion:112 Resp: 27122

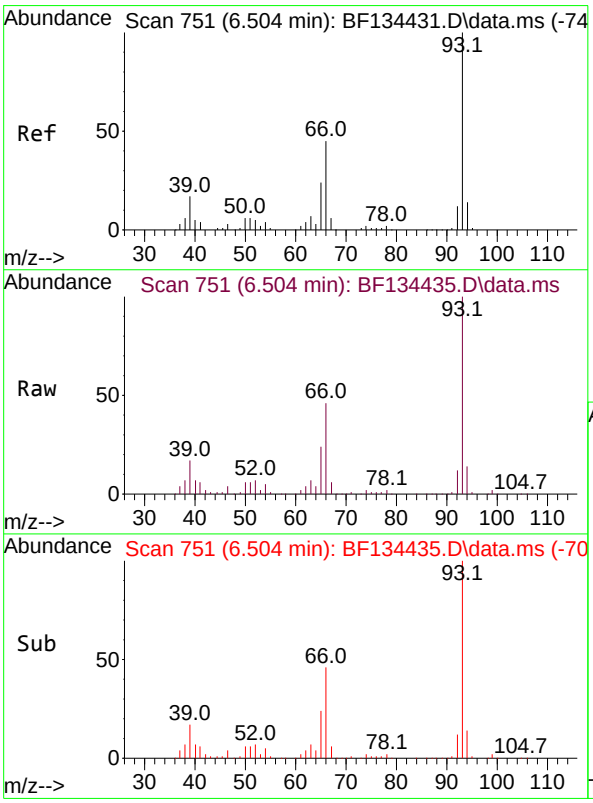
Ion	Ratio	Lower	Upper
112	100		
64	58.1	44.9	67.3
63	34.3	25.4	38.0



Instrument :
BNA_F
ClientSampleId :
ICVBF072423

Manual Integrations APPROVED

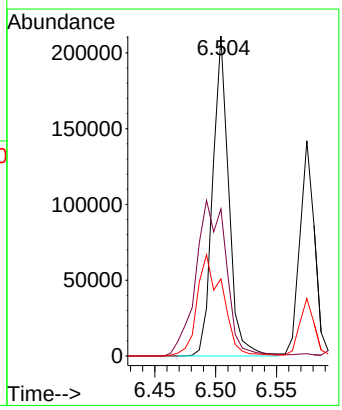
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

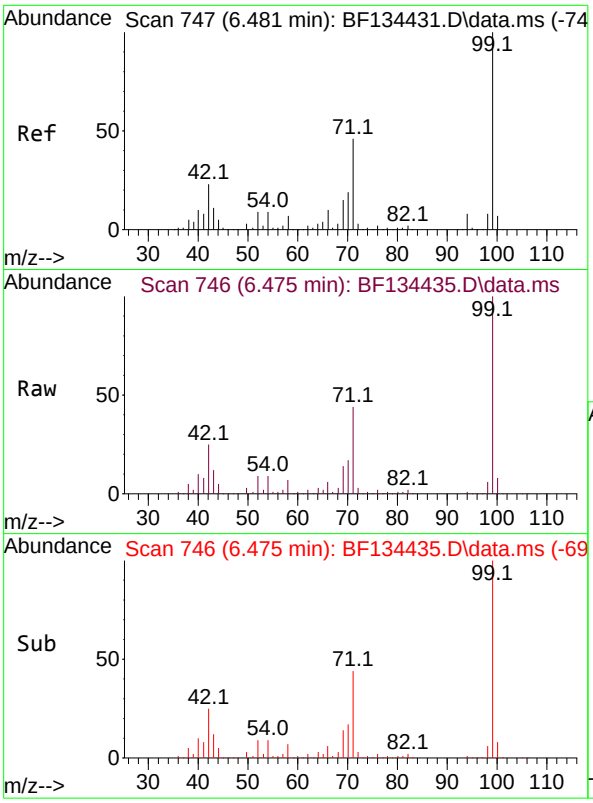


#6
Aniline
Concen: 40.828 ng
RT: 6.504 min Scan# 751
Delta R.T. 0.000 min
Lab File: BF134435.D
Acq: 24 Jul 2023 18:16

Tgt Ion: 93 Resp: 193885

Ion	Ratio	Lower	Upper
93	100		
66	46.0	36.8	55.2
65	24.1	19.4	29.0

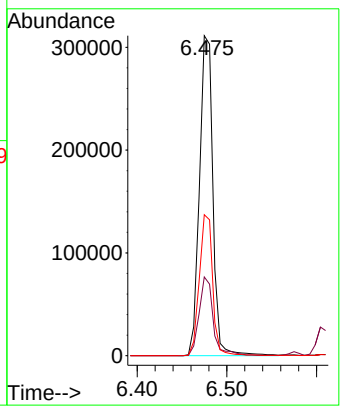




#7
Phenol-d6
Concen: 80.455 ng
RT: 6.475 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF134435.D
Acq: 24 Jul 2023 18:16

Tgt Ion: 99 Resp: 32417

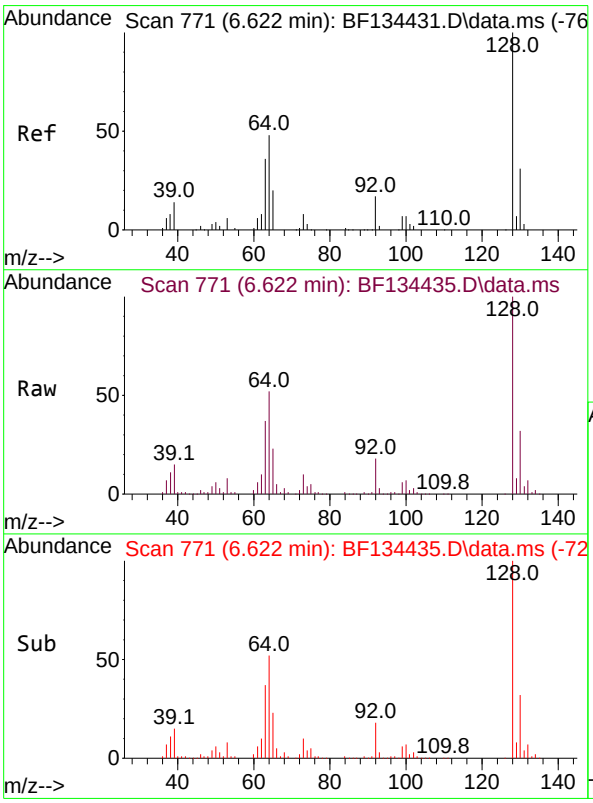
Ion	Ratio	Lower	Upper
99	100		
42	24.6	18.7	28.1
71	44.0	36.4	54.6



Instrument :
BNA_F
ClientSampleId :
ICVBF072423

Manual Integrations APPROVED

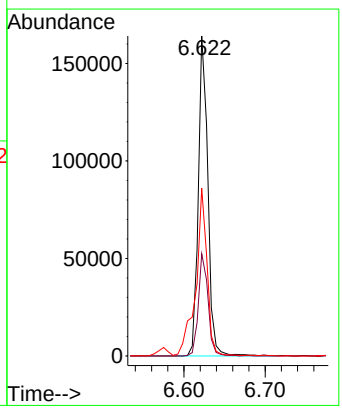
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

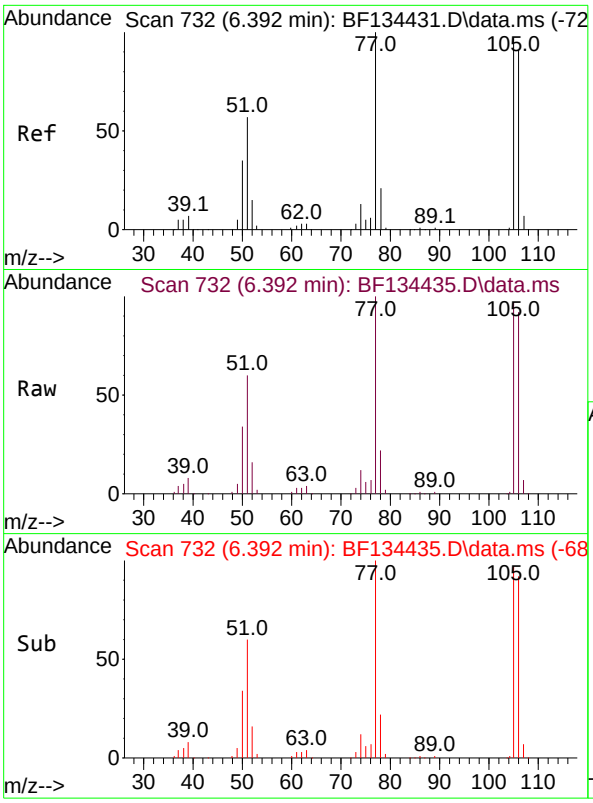


#8
2-Chlorophenol
Concen: 40.367 ng
RT: 6.622 min Scan# 771
Delta R.T. 0.000 min
Lab File: BF134435.D
Acq: 24 Jul 2023 18:16

Tgt Ion:128 Resp: 134489

Ion	Ratio	Lower	Upper
128	100		
130	32.0	11.1	51.1
64	52.4	31.9	71.9

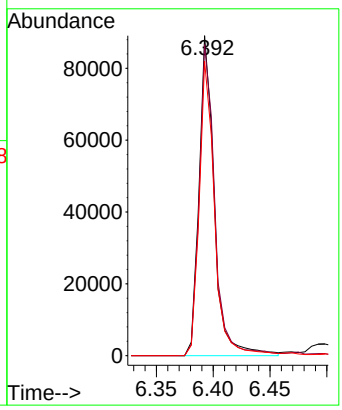




#9
Benzaldehyde
Concen: 38.639 ng
RT: 6.392 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF134435.D
Acq: 24 Jul 2023 18:16

Tgt Ion: 77 Resp: 8337

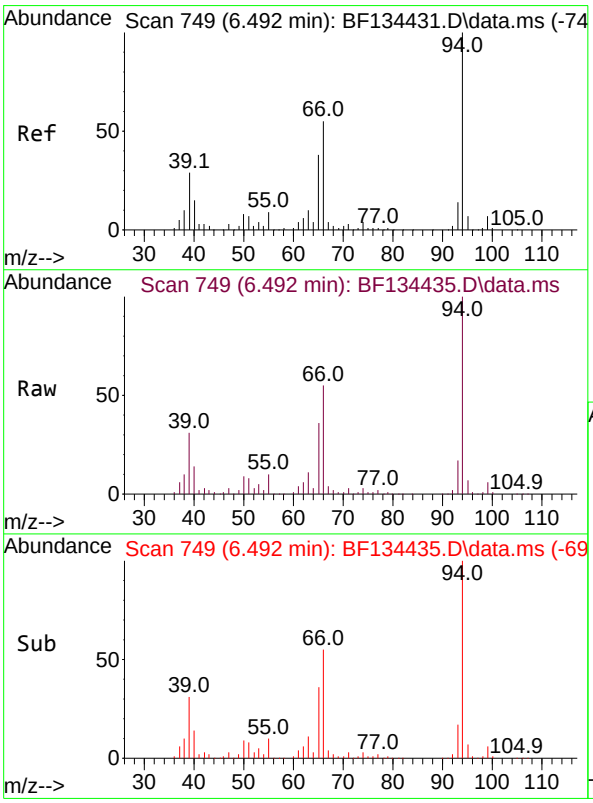
Ion	Ratio	Lower	Upper
77	100		
105	97.2	77.1	117.1
106	92.0	71.4	111.4



Instrument :
BNA_F
ClientSampleId :
ICVBF072423

Manual Integrations
APPROVED

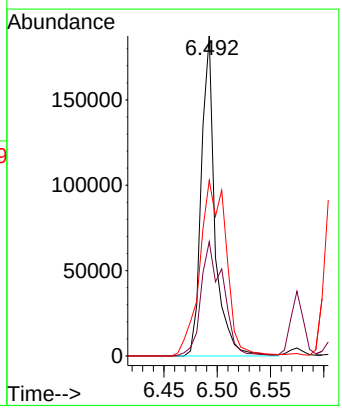
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

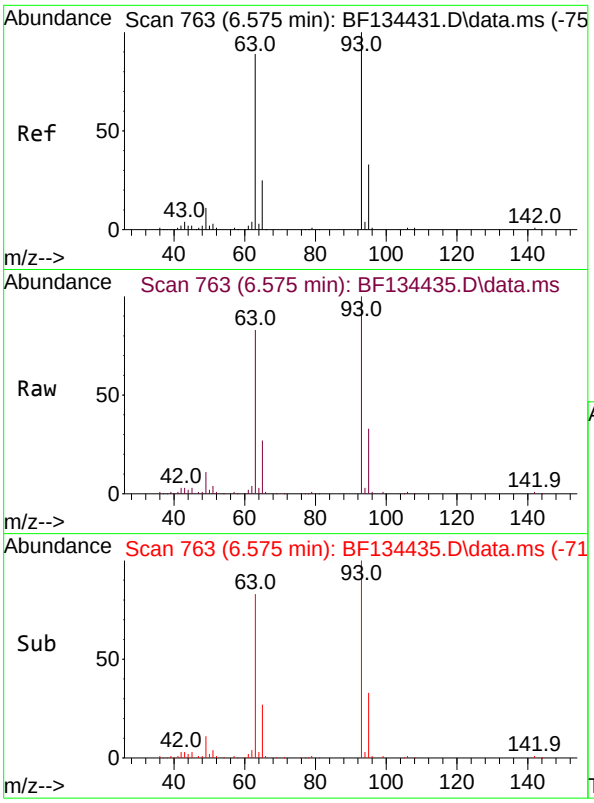


#10
Phenol
Concen: 40.129 ng
RT: 6.492 min Scan# 749
Delta R.T. 0.000 min
Lab File: BF134435.D
Acq: 24 Jul 2023 18:16

Tgt Ion: 94 Resp: 168231

Ion	Ratio	Lower	Upper
94	100		
65	35.7	17.8	57.8
66	54.8	35.2	75.2

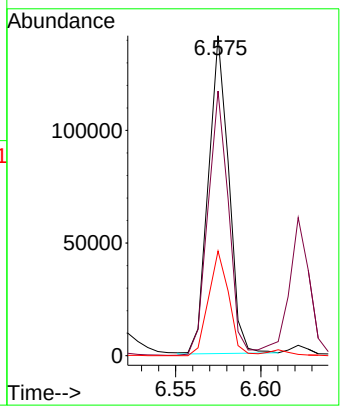




#11
bis(2-Chloroethyl)ether
Concen: 40.002 ng
RT: 6.575 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF134435.D
Acq: 24 Jul 2023 18:16

Tgt Ion: 93 Resp: 11707

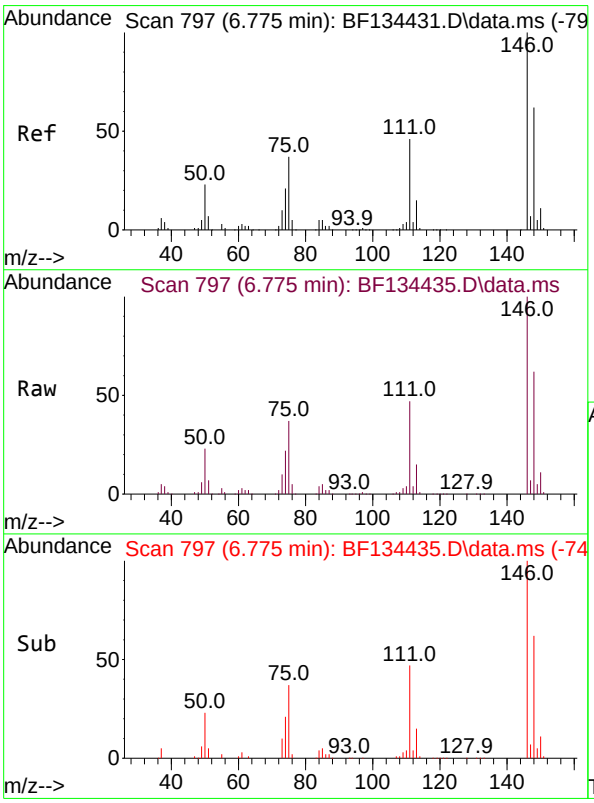
Ion	Ratio	Lower	Upper
93	100		
63	82.7	68.4	108.4
95	32.7	12.4	52.4



Instrument :
BNA_F
ClientSampleId :
ICVBF072423

Manual Integrations
APPROVED

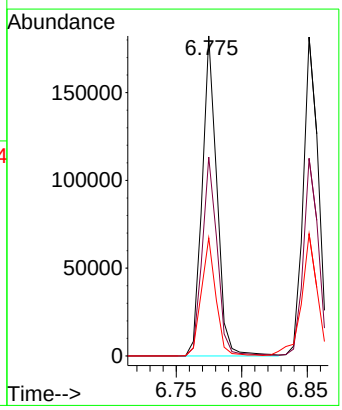
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

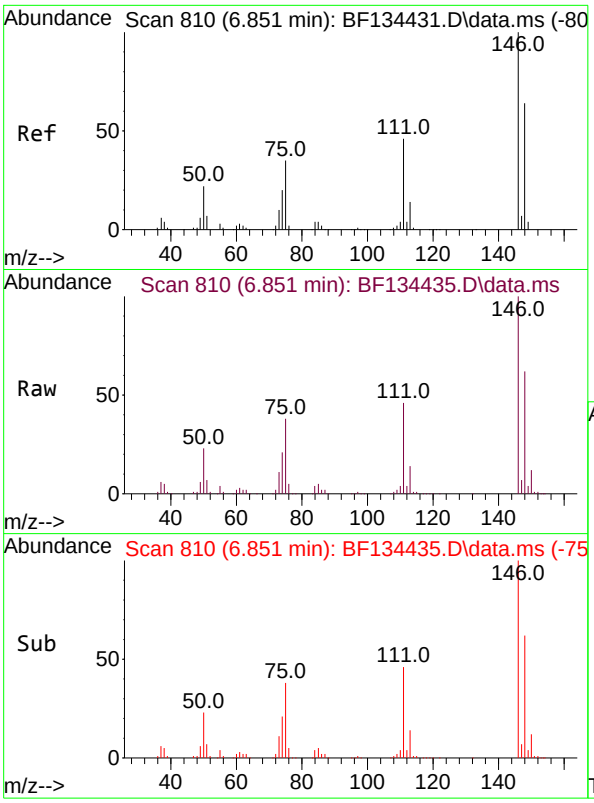


#12
1,3-Dichlorobenzene
Concen: 39.945 ng
RT: 6.775 min Scan# 797
Delta R.T. 0.000 min
Lab File: BF134435.D
Acq: 24 Jul 2023 18:16

Tgt Ion:146 Resp: 143108

Ion	Ratio	Lower	Upper
146	100		
148	62.2	49.7	74.5
75	36.9	29.5	44.3

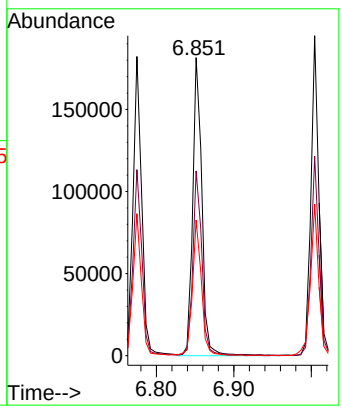




#13
1,4-Dichlorobenzene
Concen: 40.566 ng
RT: 6.851 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF134435.D
Acq: 24 Jul 2023 18:16

Tgt Ion:146 Resp: 14956

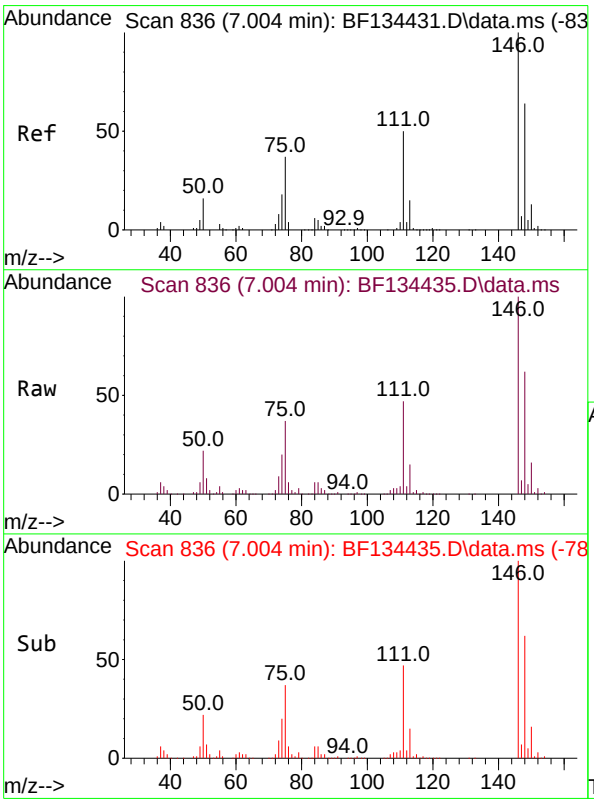
Ion	Ratio	Lower	Upper
146	100		
148	62.0	51.3	76.9
111	45.5	36.6	55.0



Instrument :
BNA_F
ClientSampleId :
ICVBF072423

Manual Integrations
APPROVED

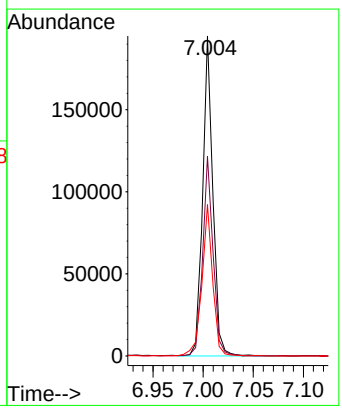
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

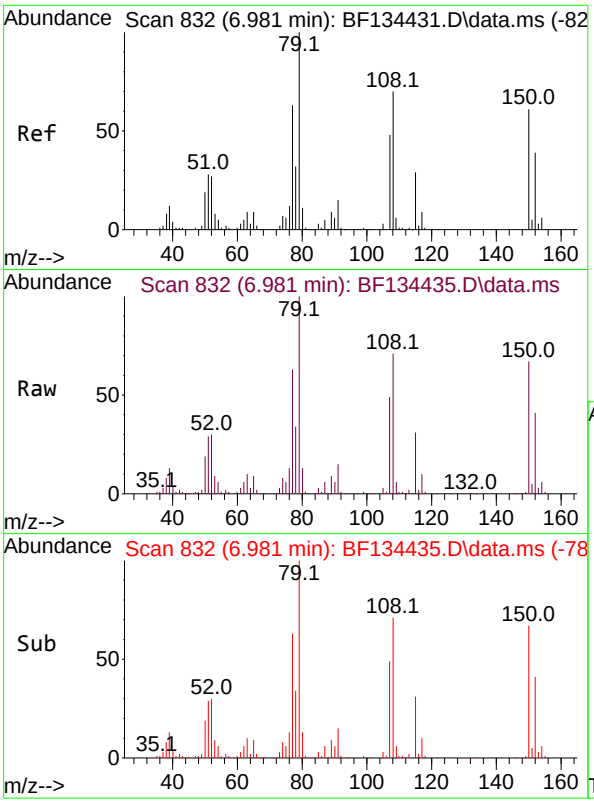


#14
1,2-Dichlorobenzene
Concen: 40.116 ng
RT: 7.004 min Scan# 836
Delta R.T. 0.000 min
Lab File: BF134435.D
Acq: 24 Jul 2023 18:16

Tgt Ion:146 Resp: 138934

Ion	Ratio	Lower	Upper
146	100		
148	62.3	51.2	76.8
111	47.3	39.9	59.9

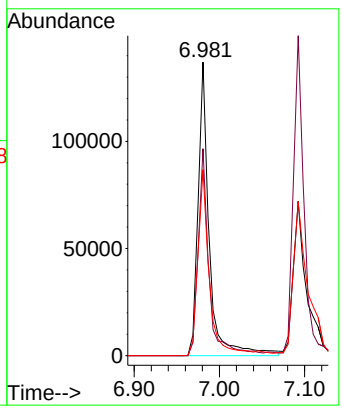




#15
Benzyl Alcohol
Concen: 40.137 ng
RT: 6.981 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF134435.D
Acq: 24 Jul 2023 18:16

Tgt Ion: 79 Resp: 12486

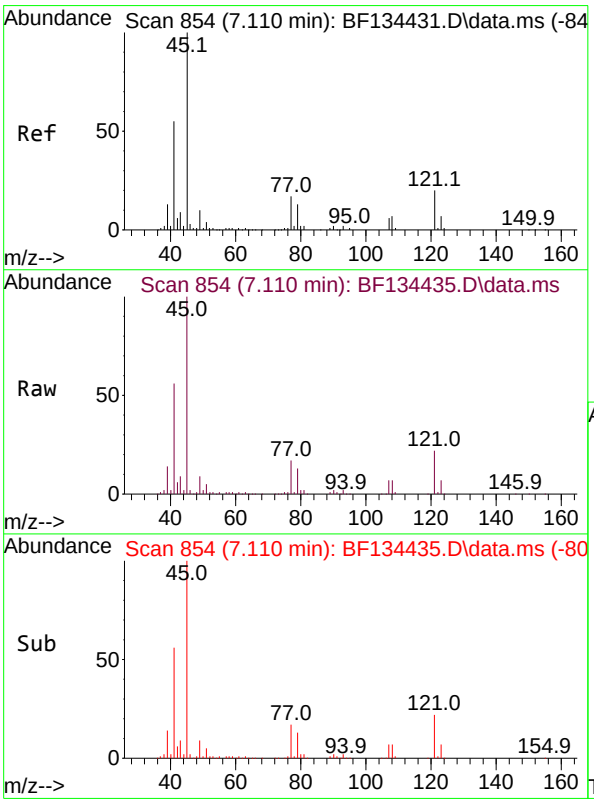
Ion	Ratio	Lower	Upper
79	100		
108	70.5	56.3	84.5
77	63.4	50.6	76.0



Instrument :
BNA_F
ClientSampleId :
ICVBF072423

Manual Integrations
APPROVED

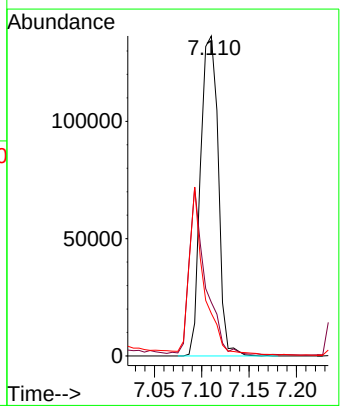
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

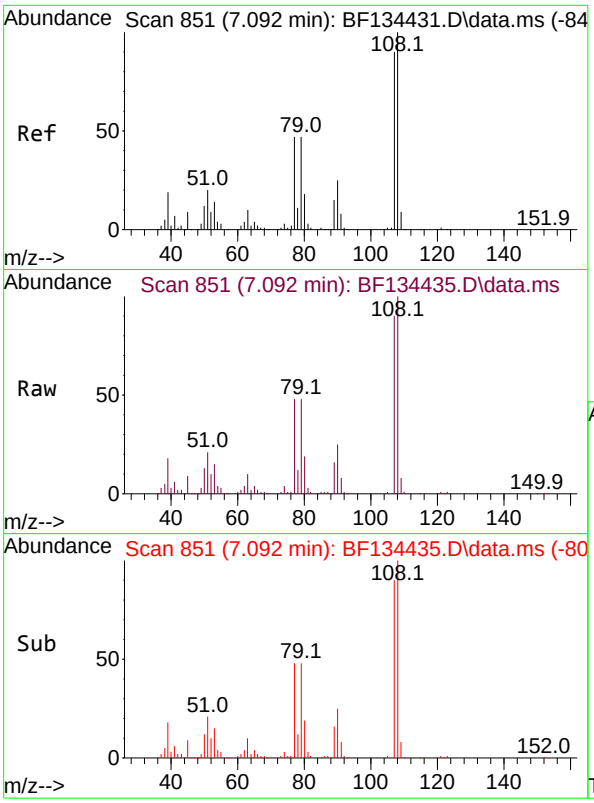


#16
2,2'-oxybis(1-Chloropropane)
Concen: 40.906 ng
RT: 7.110 min Scan# 854
Delta R.T. 0.000 min
Lab File: BF134435.D
Acq: 24 Jul 2023 18:16

Tgt Ion: 45 Resp: 176296

Ion	Ratio	Lower	Upper
45	100		
77	16.8	0.0	37.8
79	13.3	0.0	34.5

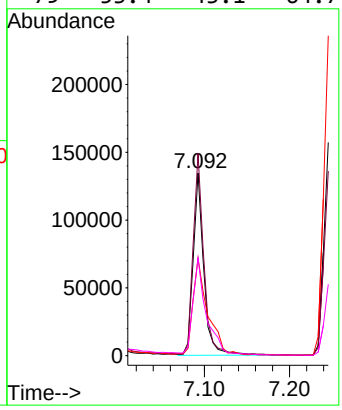




#17
2-Methylphenol
Concen: 39.121 ng
RT: 7.092 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF134435.D
Acq: 24 Jul 2023 18:16

Tgt Ion:107 Resp: 11624

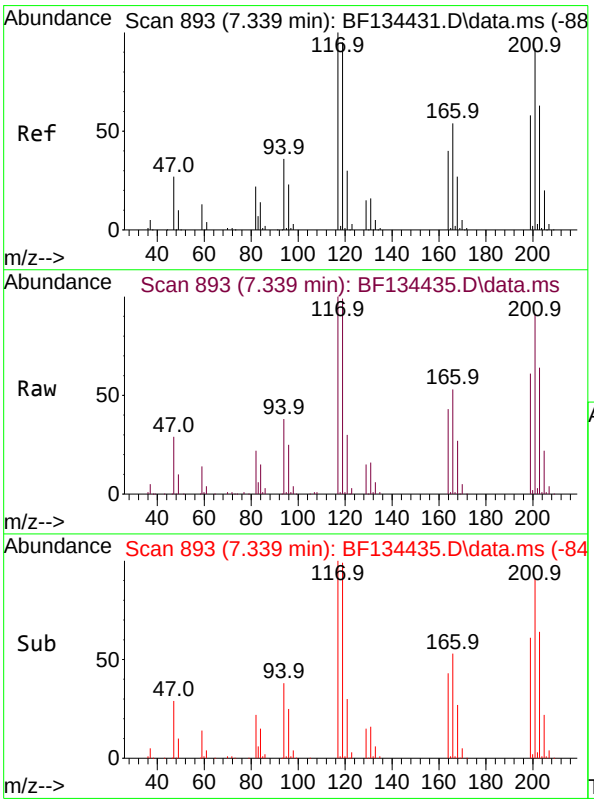
Ion	Ratio	Lower	Upper
107	100		
108	110.8	89.4	134.2
77	53.3	42.4	63.6
79	53.4	43.1	64.7



Instrument :
BNA_F
ClientSampleId :
ICVBF072423

Manual Integrations
APPROVED

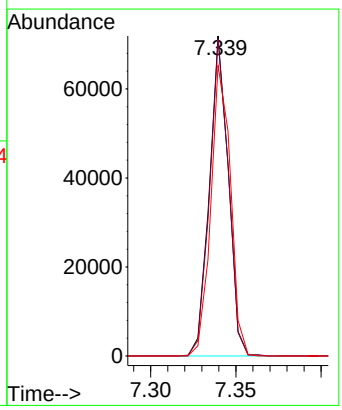
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

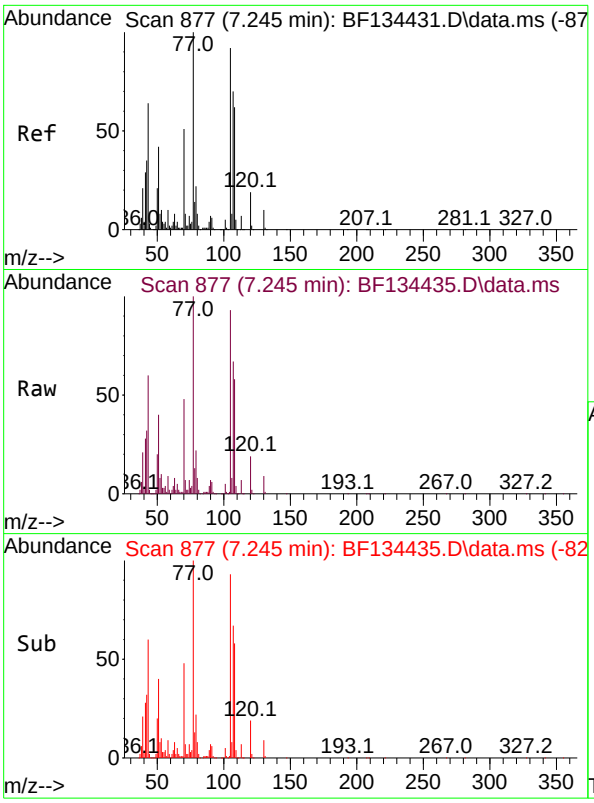


#18
Hexachloroethane
Concen: 39.159 ng
RT: 7.339 min Scan# 893
Delta R.T. 0.000 min
Lab File: BF134435.D
Acq: 24 Jul 2023 18:16

Tgt Ion:117 Resp: 55467

Ion	Ratio	Lower	Upper
117	100		
119	99.0	75.8	113.8
201	90.7	73.6	110.4

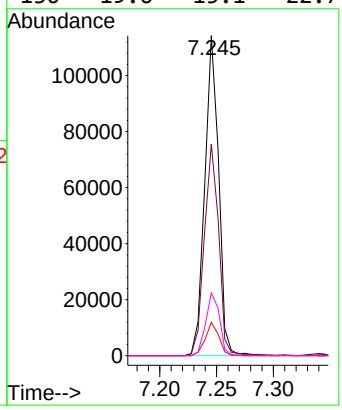




#19
n-Nitroso-di-n-propylamine
Concen: 38.681 ng
RT: 7.245 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF134435.D
Acq: 24 Jul 2023 18:16

Tgt Ion: 70 Resp: 9702

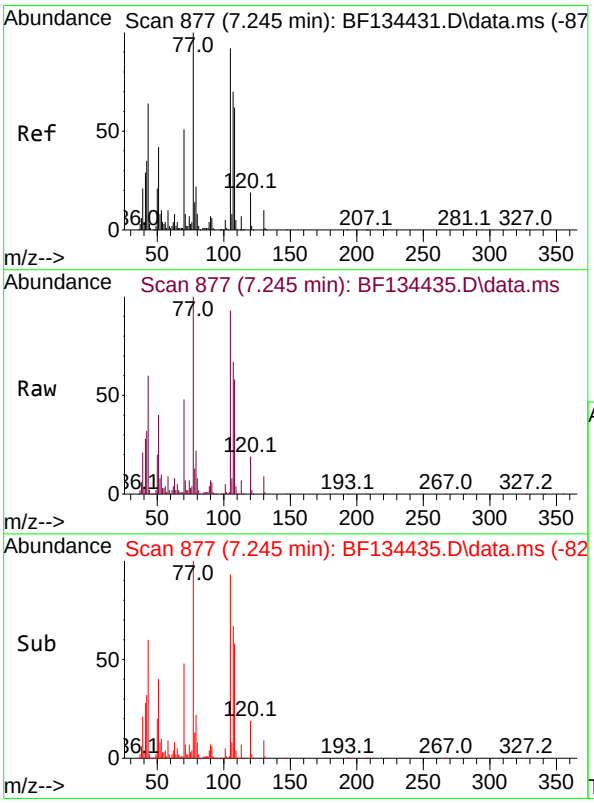
Ion	Ratio	Lower	Upper
70	100		
42	66.2	54.7	82.1
101	10.4	8.2	12.2
130	19.6	15.1	22.7



Instrument :
BNA_F
ClientSampleId :
ICVBF072423

Manual Integrations APPROVED

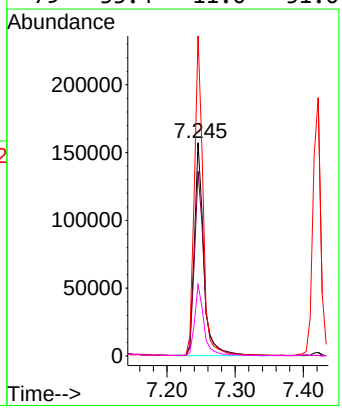
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

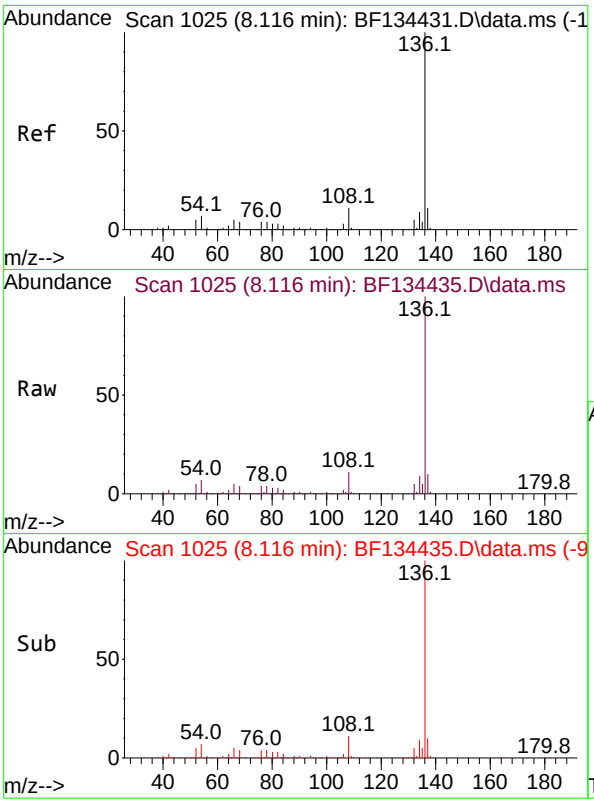


#20
3+4-Methylphenols
Concen: 39.291 ng
RT: 7.245 min Scan# 877
Delta R.T. 0.000 min
Lab File: BF134435.D
Acq: 24 Jul 2023 18:16

Tgt Ion:107 Resp: 149474

Ion	Ratio	Lower	Upper
107	100		
108	86.6	68.1	108.1
77	150.0	122.1	162.1
79	33.4	11.0	51.0

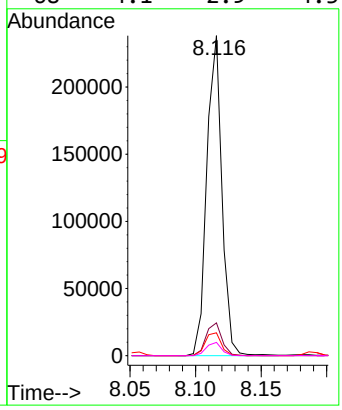




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.116 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134435.D
Acq: 24 Jul 2023 18:16

Tgt Ion:136 Resp: 19169

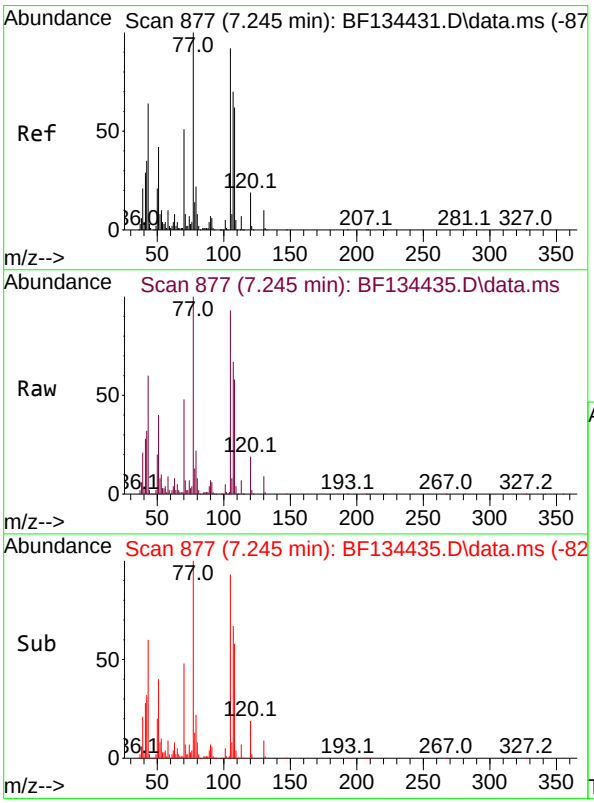
Ion	Ratio	Lower	Upper
136	100		
137	10.2	8.4	12.6
54	7.2	5.2	7.8
68	4.1	2.9	4.3



Instrument :
BNA_F
ClientSampleId :
ICVBF072423

Manual Integrations APPROVED

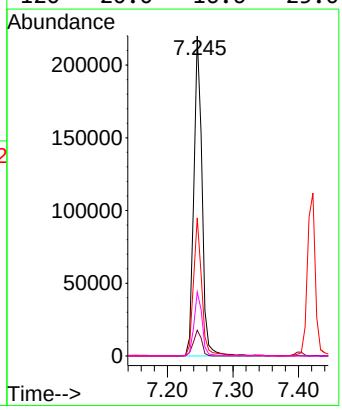
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

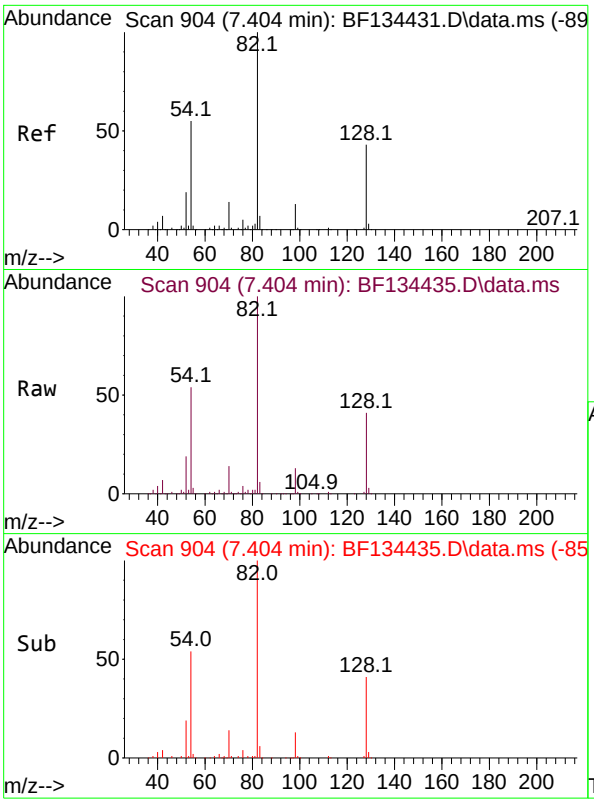


#22
Acetophenone
Concen: 40.320 ng
RT: 7.245 min Scan# 877
Delta R.T. 0.000 min
Lab File: BF134435.D
Acq: 24 Jul 2023 18:16

Tgt Ion:105 Resp: 192226

Ion	Ratio	Lower	Upper
105	100		
71	8.0	7.4	11.0
51	43.2	36.4	54.6
120	20.0	16.6	25.0

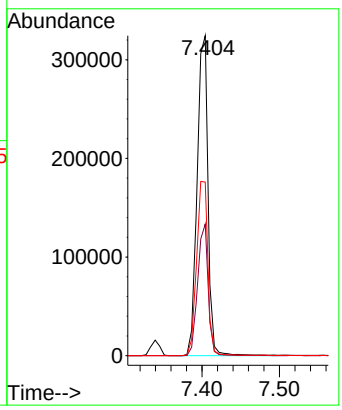




#23
Nitrobenzene-d5
Concen: 83.445 ng
RT: 7.404 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF134435.D
Acq: 24 Jul 2023 18:16

Tgt Ion: 82 Resp: 31616

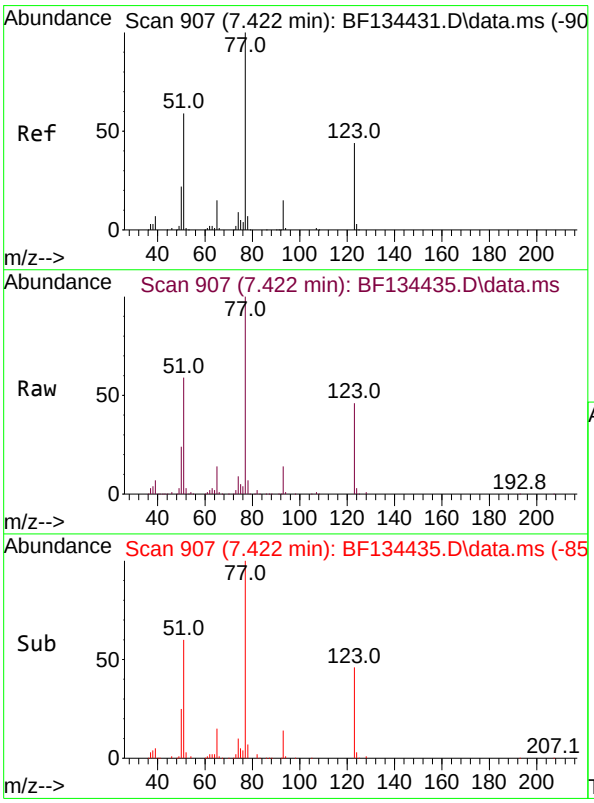
Ion	Ratio	Lower	Upper
82	100		
128	41.2	34.3	51.5
54	54.3	43.8	65.6



Instrument :
BNA_F
ClientSampleId :
ICVBF072423

Manual Integrations
APPROVED

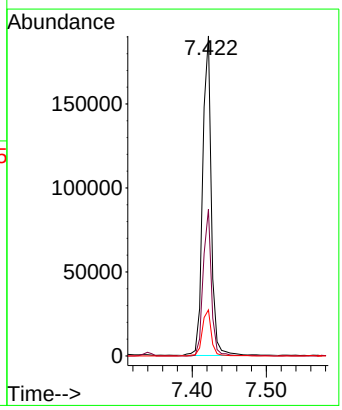
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

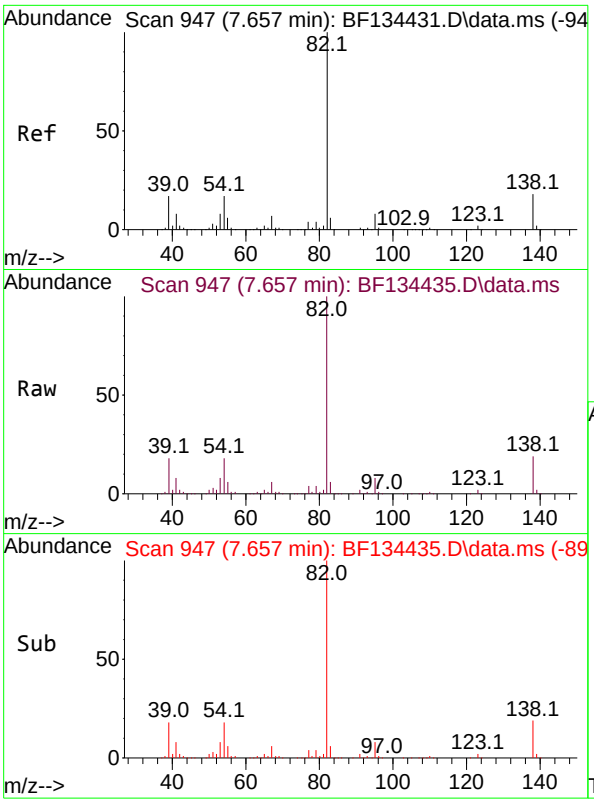


#24
Nitrobenzene
Concen: 40.867 ng
RT: 7.422 min Scan# 907
Delta R.T. 0.000 min
Lab File: BF134435.D
Acq: 24 Jul 2023 18:16

Tgt Ion: 77 Resp: 153989

Ion	Ratio	Lower	Upper
77	100		
123	45.9	35.5	53.3
65	14.4	11.9	17.9

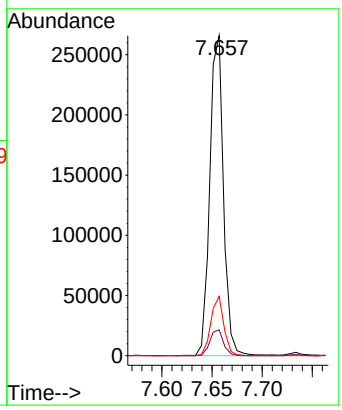




#25
Isophorone
Concen: 40.103 ng
RT: 7.657 min Scan# 94
Delta R.T. 0.000 min
Lab File: BF134435.D
Acq: 24 Jul 2023 18:16

Tgt Ion: 82 Resp: 25323

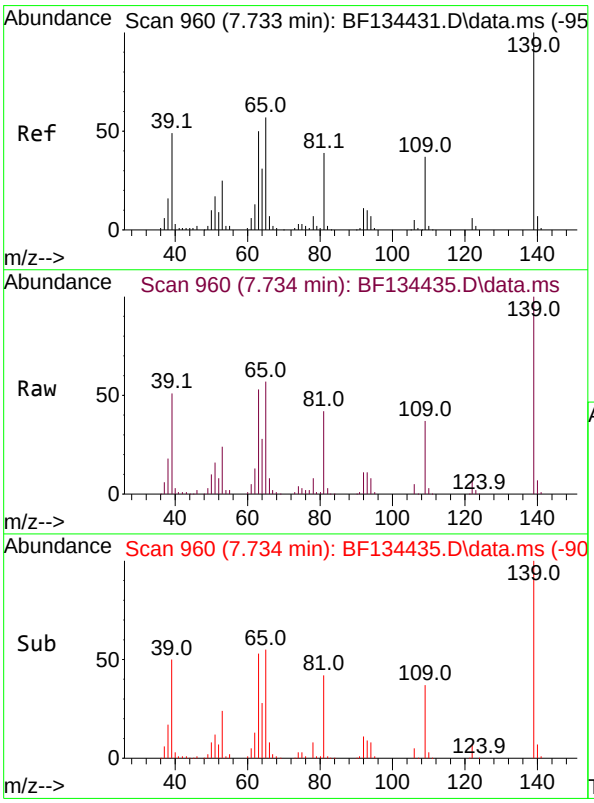
Ion	Ratio	Lower	Upper
82	100		
95	8.1	6.0	9.0
138	18.6	14.6	22.0



Instrument :
BNA_F
ClientSampleId :
ICVBF072423

Manual Integrations
APPROVED

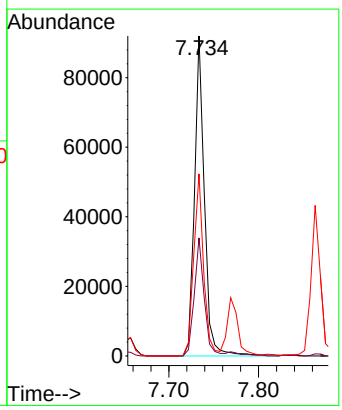
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

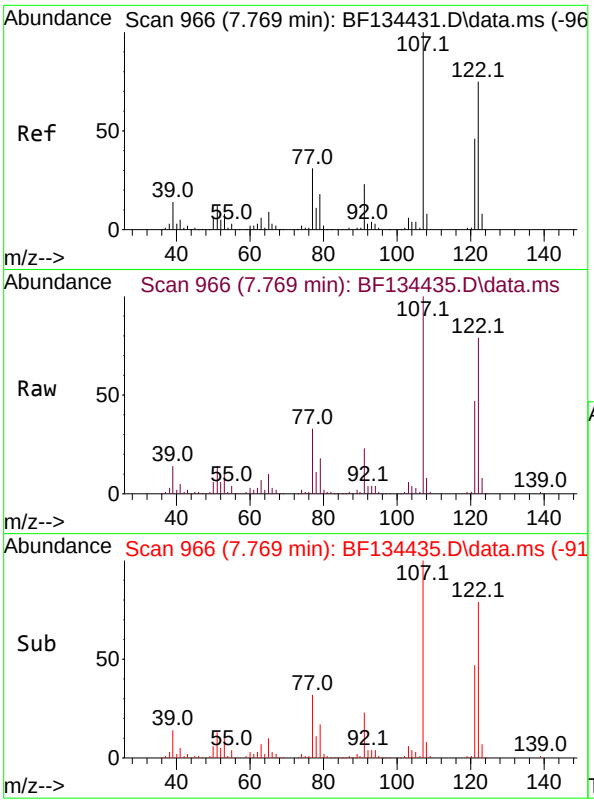


#26
2-Nitrophenol
Concen: 40.952 ng
RT: 7.734 min Scan# 960
Delta R.T. 0.000 min
Lab File: BF134435.D
Acq: 24 Jul 2023 18:16

Tgt Ion:139 Resp: 70973

Ion	Ratio	Lower	Upper
139	100		
109	36.9	29.8	44.6
65	56.9	45.4	68.2

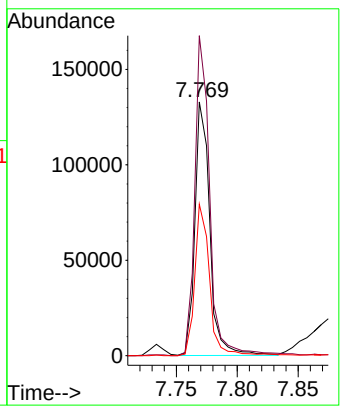




#27
2,4-Dimethylphenol
Concen: 41.429 ng
RT: 7.769 min Scan# 9(
Delta R.T. 0.000 min
Lab File: BF134435.D
Acq: 24 Jul 2023 18:16

Tgt Ion:122 Resp: 11330(

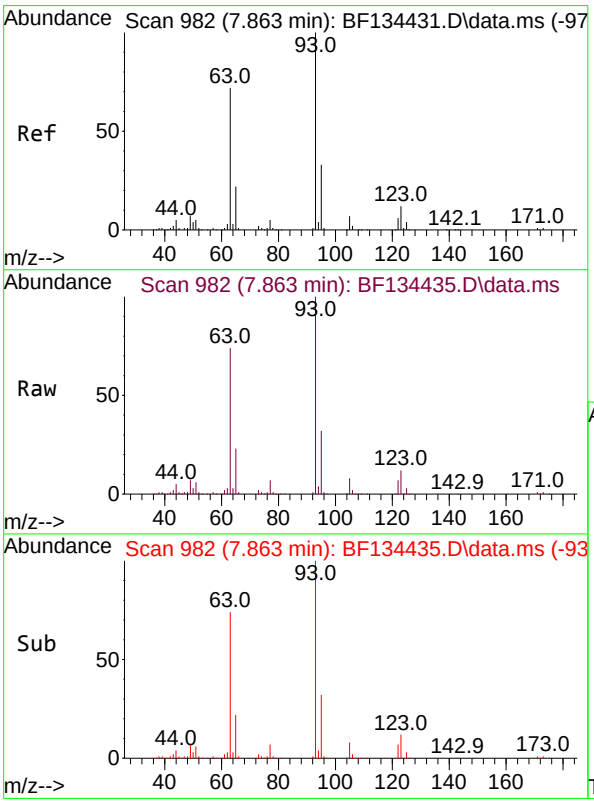
Ion	Ratio	Lower	Upper
122	100		
107	126.1	106.7	160.1
121	59.7	49.0	73.6



Instrument :
BNA_F
ClientSampleId :
ICVBF072423

Manual Integrations APPROVED

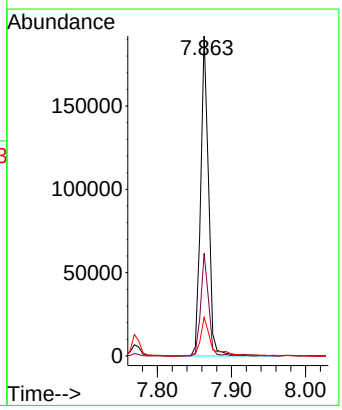
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

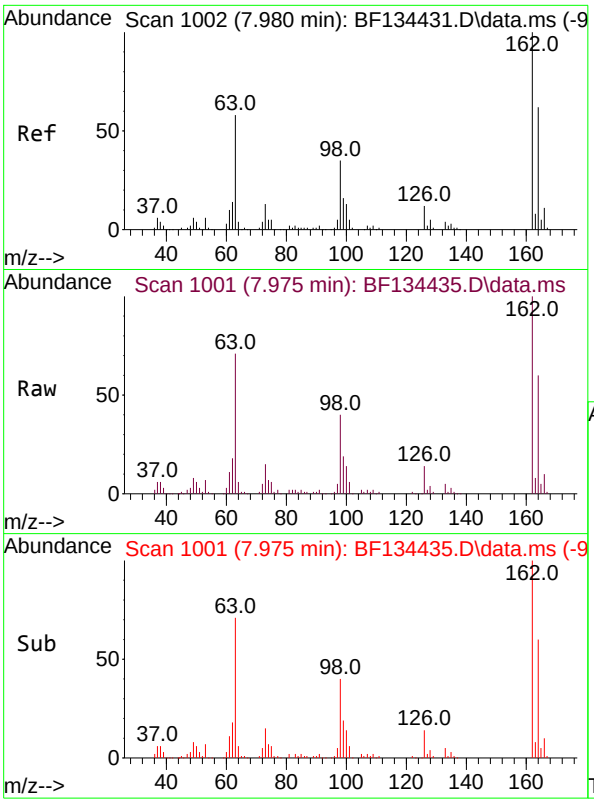


#28
bis(2-Chloroethoxy)methane
Concen: 40.472 ng
RT: 7.863 min Scan# 982
Delta R.T. 0.000 min
Lab File: BF134435.D
Acq: 24 Jul 2023 18:16

Tgt Ion: 93 Resp: 142251

Ion	Ratio	Lower	Upper
93	100		
95	32.1	26.5	39.7
123	12.1	9.6	14.4

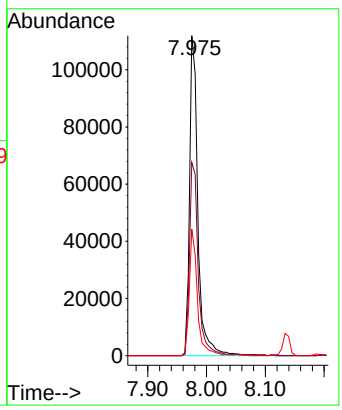




#29
2,4-Dichlorophenol
Concen: 40.572 ng
RT: 7.975 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF134435.D
Acq: 24 Jul 2023 18:16

Tgt Ion:162 Resp: 11092

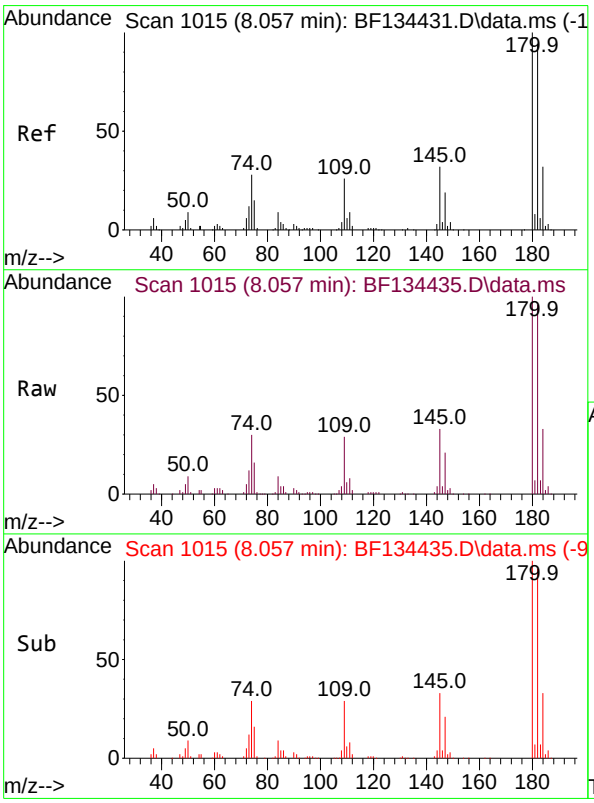
Ion	Ratio	Lower	Upper
162	100		
164	60.3	42.2	82.2
98	39.5	15.5	55.5



Instrument :
BNA_F
ClientSampleId :
ICVBF072423

Manual Integrations APPROVED

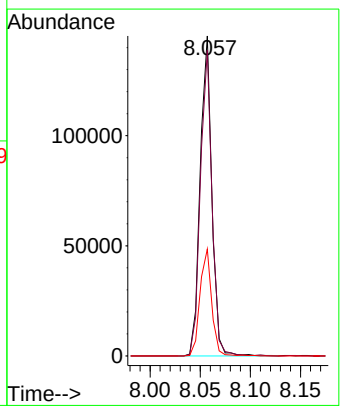
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

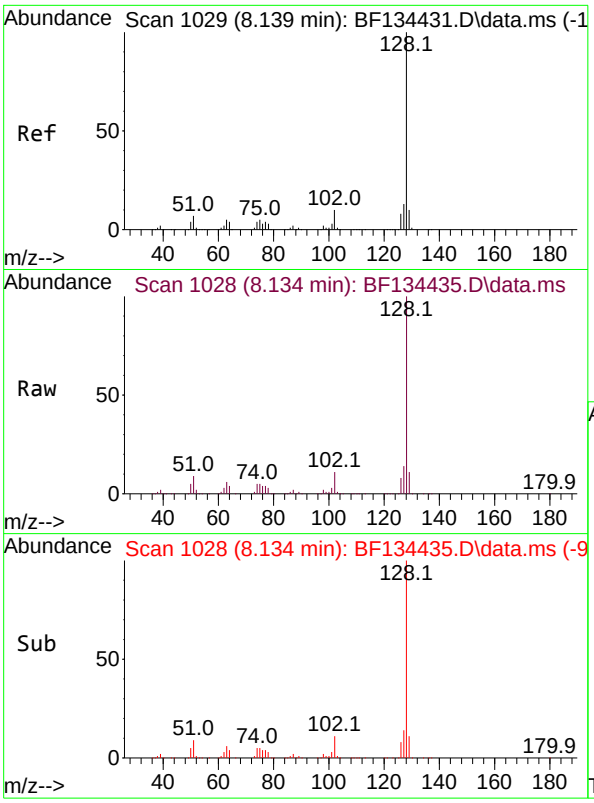


#30
1,2,4-Trichlorobenzene
Concen: 40.054 ng
RT: 8.057 min Scan# 1015
Delta R.T. 0.000 min
Lab File: BF134435.D
Acq: 24 Jul 2023 18:16

Tgt Ion:180 Resp: 118125

Ion	Ratio	Lower	Upper
180	100		
182	95.5	75.0	112.6
145	33.4	25.5	38.3

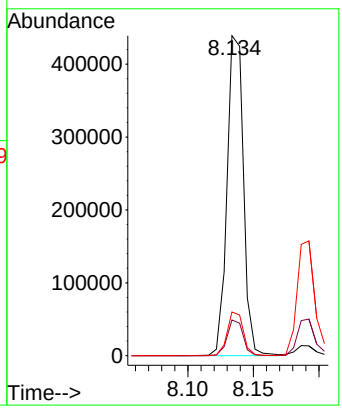




#31
Naphthalene
Concen: 40.147 ng
RT: 8.134 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF134435.D
Acq: 24 Jul 2023 18:16

Tgt Ion:128 Resp: 38301

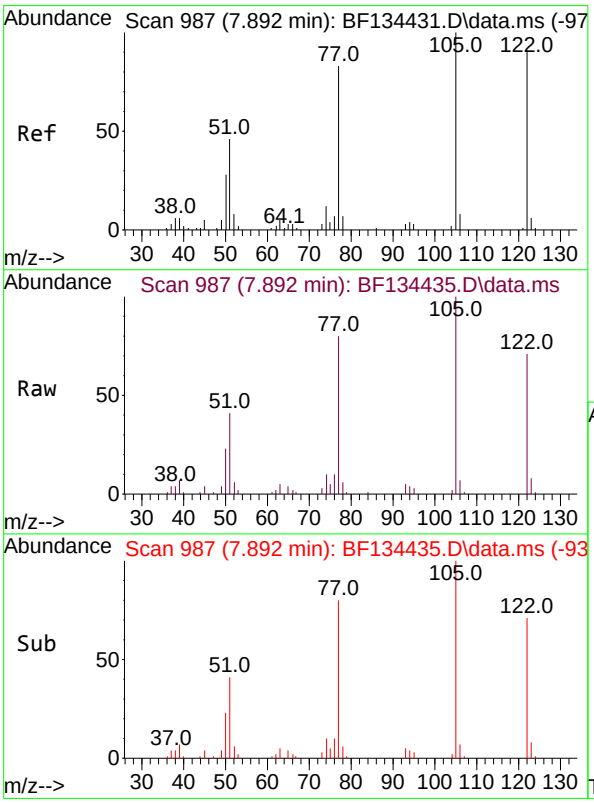
Ion	Ratio	Lower	Upper
128	100		
129	11.2	8.4	12.6
127	13.7	10.7	16.1



Instrument :
BNA_F
ClientSampleId :
ICVBF072423

Manual Integrations
APPROVED

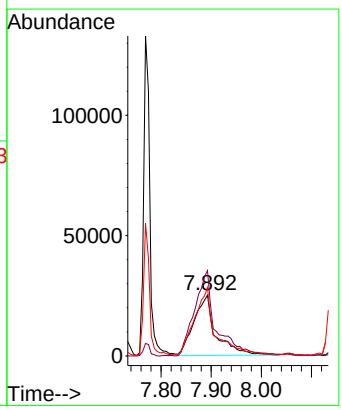
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

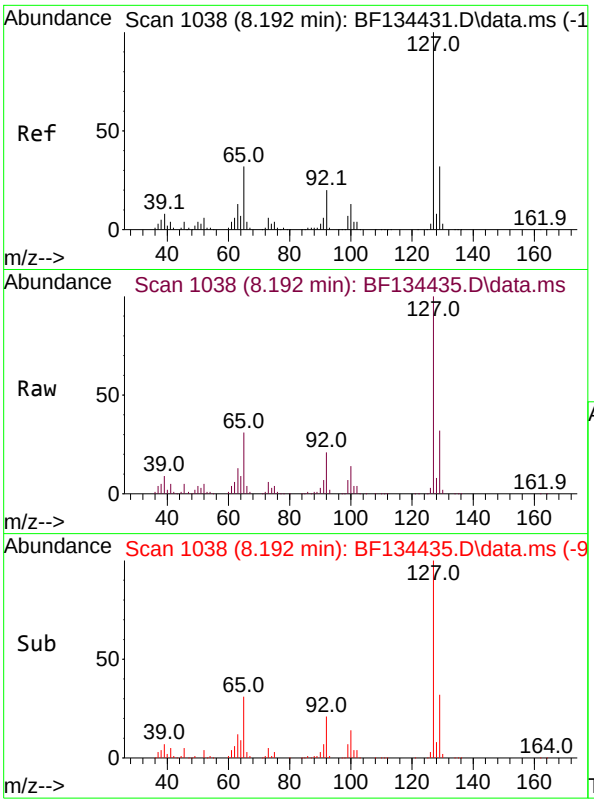


#32
Benzoic acid
Concen: 41.715 ng
RT: 7.892 min Scan# 987
Delta R.T. 0.000 min
Lab File: BF134435.D
Acq: 24 Jul 2023 18:16

Tgt Ion:122 Resp: 76207

Ion	Ratio	Lower	Upper
122	100		
105	140.8	87.5	127.5#
77	112.9	71.4	111.4#

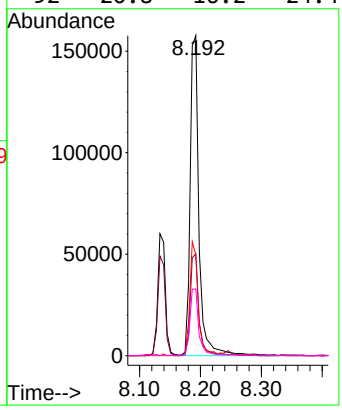




#33
4-Chloroaniline
Concen: 40.558 ng
RT: 8.192 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134435.D
Acq: 24 Jul 2023 18:16

Tgt Ion:127 Resp: 15994

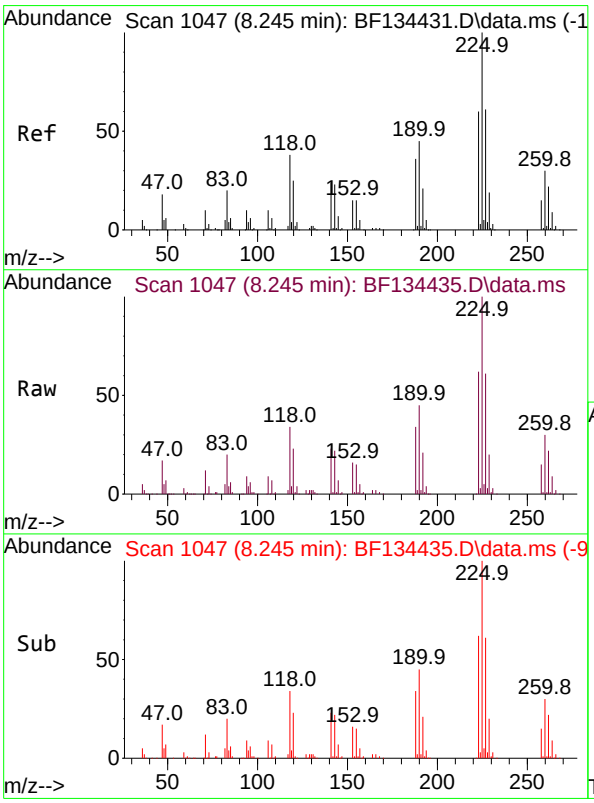
Ion	Ratio	Lower	Upper
127	100		
129	31.9	25.6	38.4
65	31.5	25.4	38.0
92	20.8	16.2	24.4



Instrument :
BNA_F
ClientSampleId :
ICVBF072423

Manual Integrations APPROVED

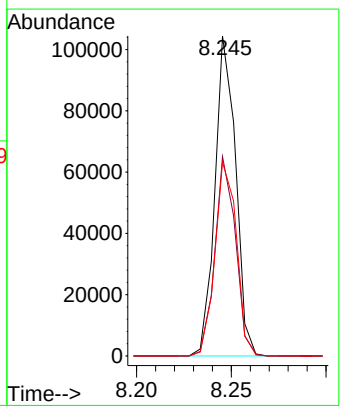
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

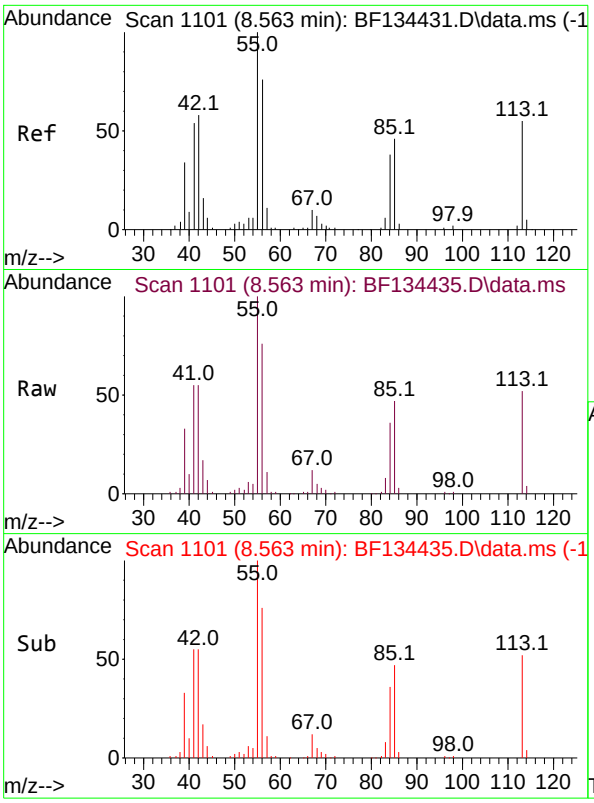


#34
Hexachlorobutadiene
Concen: 40.192 ng
RT: 8.245 min Scan# 1047
Delta R.T. 0.000 min
Lab File: BF134435.D
Acq: 24 Jul 2023 18:16

Tgt Ion:225 Resp: 79406

Ion	Ratio	Lower	Upper
225	100		
223	62.3	48.2	72.4
227	60.5	48.5	72.7

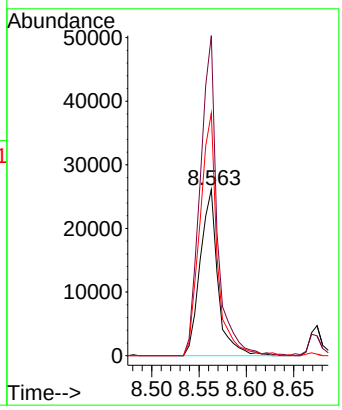




#35
Caprolactam
Concen: 40.785 ng
RT: 8.563 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134435.D
Acq: 24 Jul 2023 18:16

Tgt Ion:113 Resp: 3409

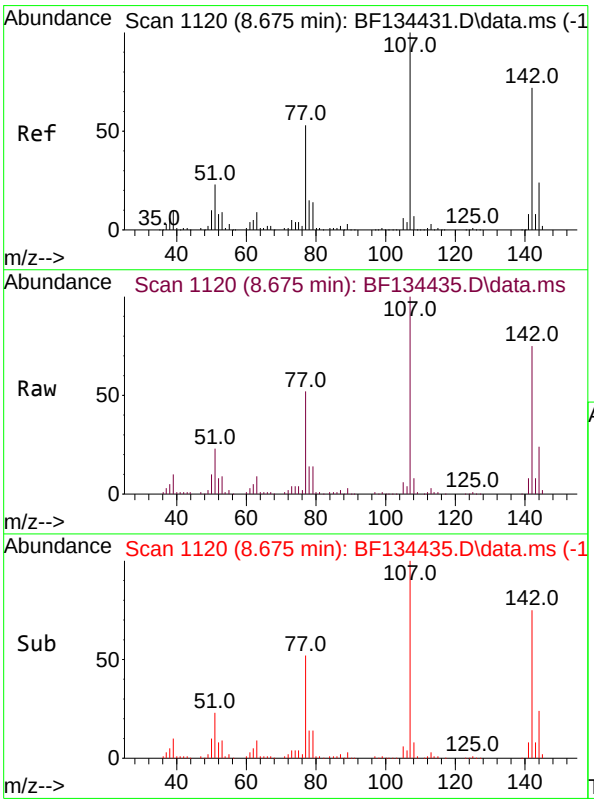
Ion	Ratio	Lower	Upper
113	100		
55	192.6	161.5	201.5
56	146.0	117.8	157.8



Instrument :
BNA_F
ClientSampleId :
ICVBF072423

Manual Integrations
APPROVED

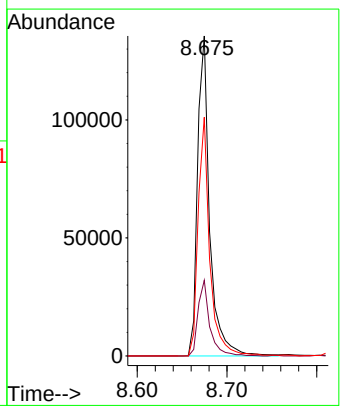
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

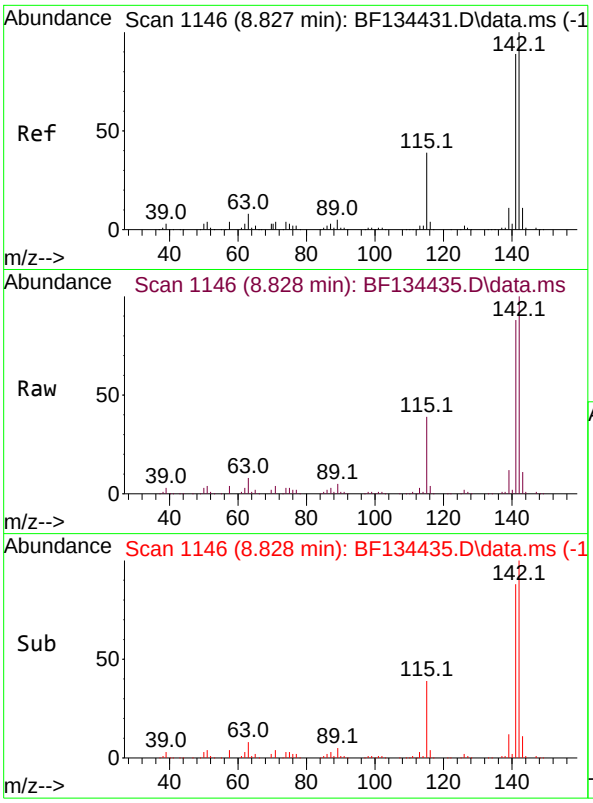


#36
4-Chloro-3-methylphenol
Concen: 40.350 ng
RT: 8.675 min Scan# 1120
Delta R.T. 0.000 min
Lab File: BF134435.D
Acq: 24 Jul 2023 18:16

Tgt Ion:107 Resp: 127291

Ion	Ratio	Lower	Upper
107	100		
144	23.7	19.6	29.4
142	74.6	57.7	86.5

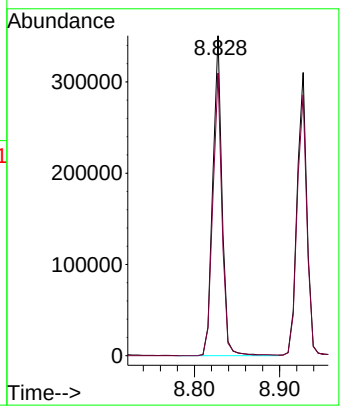




#37
2-Methylnaphthalene
Concen: 40.005 ng
RT: 8.828 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF134435.D
Acq: 24 Jul 2023 18:16

Tgt Ion:142 Resp: 26518

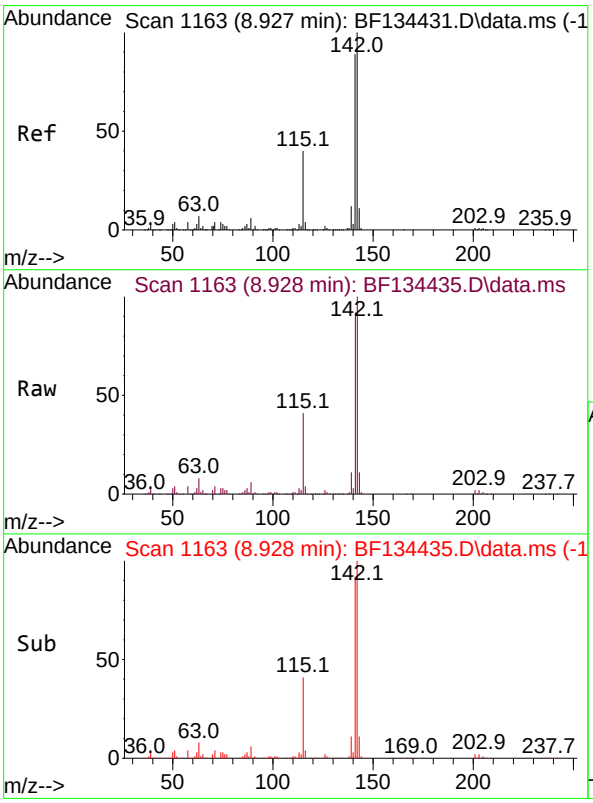
Ion	Ratio	Lower	Upper
142	100		
141	88.4	70.8	106.2



Instrument :
BNA_F
ClientSampleId :
ICVBF072423

Manual Integrations
APPROVED

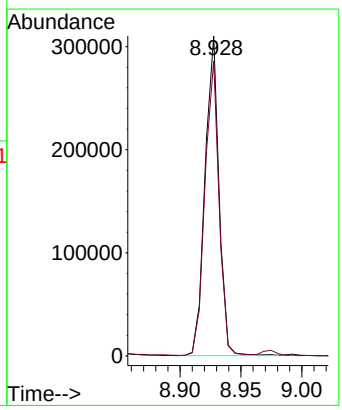
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

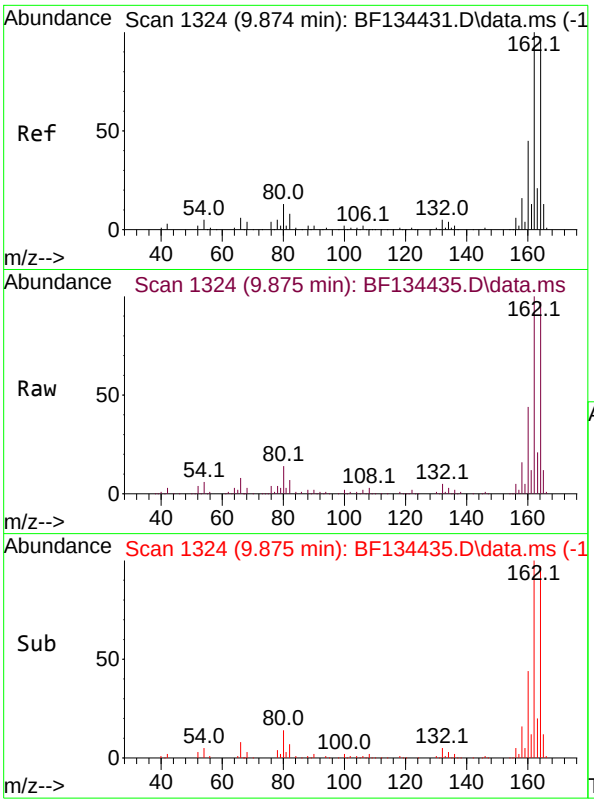


#38
1-Methylnaphthalene
Concen: 40.115 ng
RT: 8.928 min Scan# 1163
Delta R.T. 0.000 min
Lab File: BF134435.D
Acq: 24 Jul 2023 18:16

Tgt Ion:142 Resp: 246692

Ion	Ratio	Lower	Upper
142	100		
141	92.2	71.4	107.2

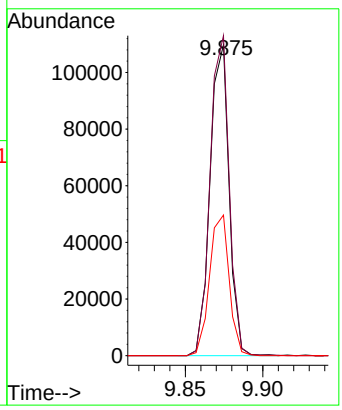




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.875 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134435.D
Acq: 24 Jul 2023 18:16

Tgt Ion:164 Resp: 9389

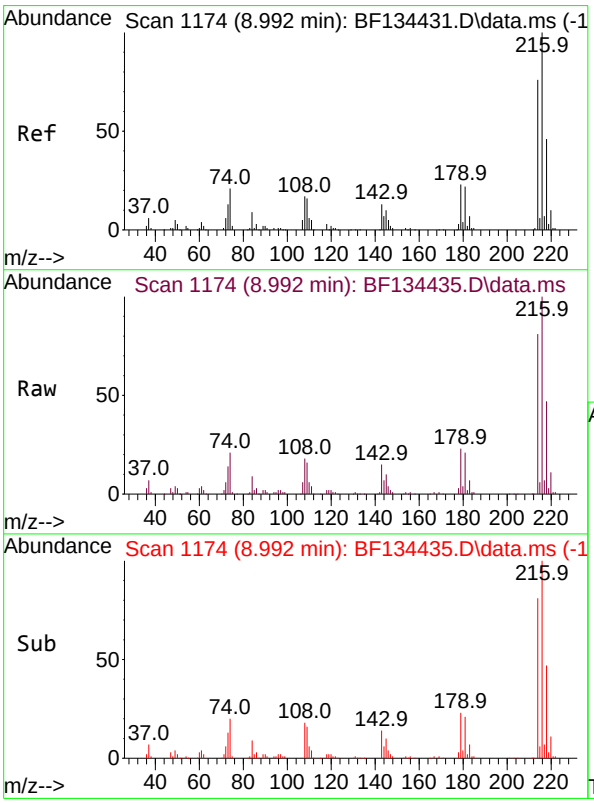
Ion	Ratio	Lower	Upper
164	100		
162	103.0	82.6	123.8
160	45.2	37.2	55.8



Instrument :
BNA_F
ClientSampleId :
ICVBF072423

Manual Integrations
APPROVED

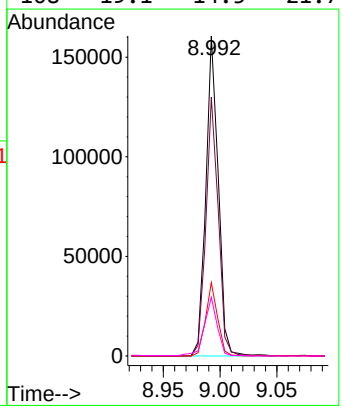
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

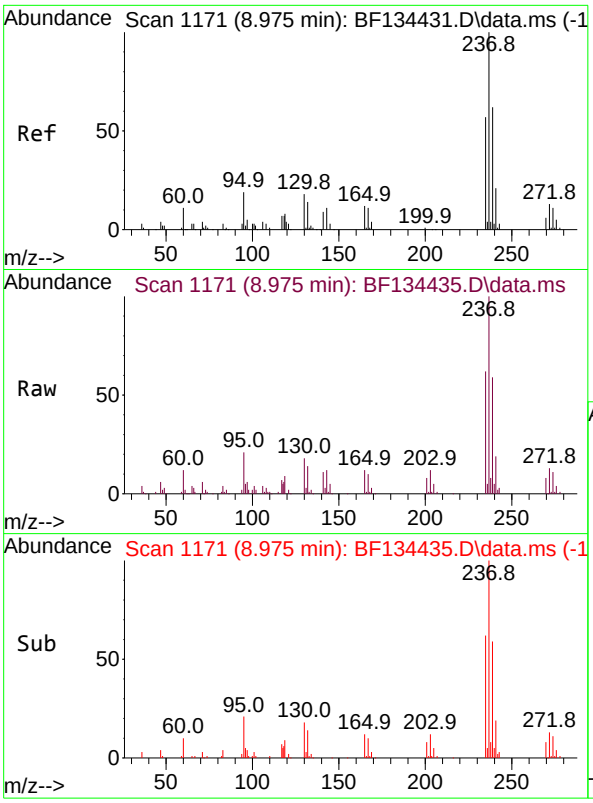


#40
1,2,4,5-Tetrachlorobenzene
Concen: 40.968 ng
RT: 8.992 min Scan# 1174
Delta R.T. 0.000 min
Lab File: BF134435.D
Acq: 24 Jul 2023 18:16

Tgt Ion:216 Resp: 121906

Ion	Ratio	Lower	Upper
216	100		
214	80.2	62.3	93.5
179	21.9	17.4	26.0
108	19.1	14.5	21.7

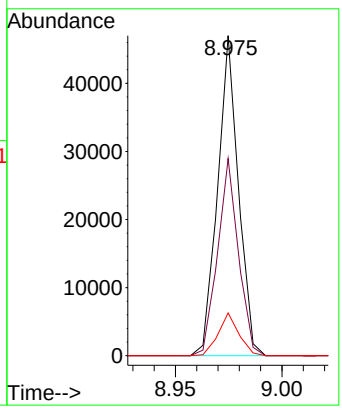




#41
Hexachlorocyclopentadiene
Concen: 41.716 ng
RT: 8.975 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF134435.D
Acq: 24 Jul 2023 18:16

Tgt Ion:237 Resp: 3192

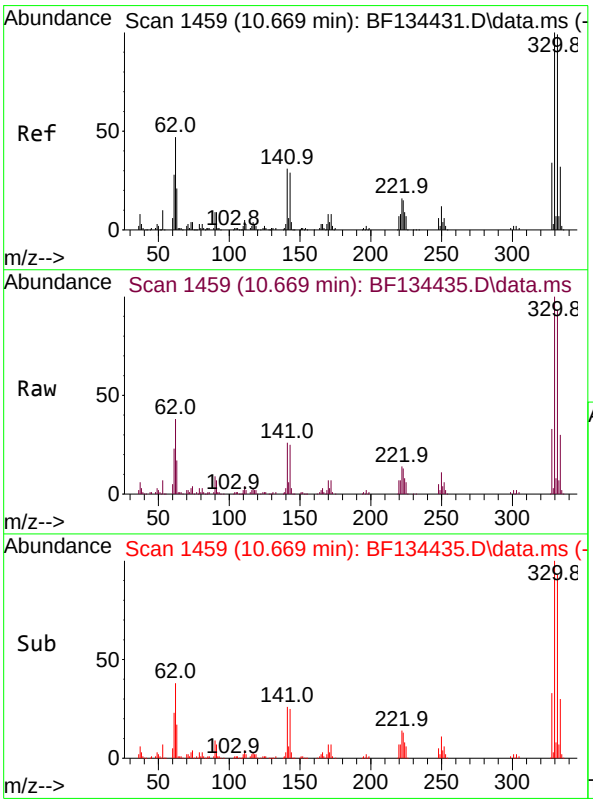
Ion	Ratio	Lower	Upper
237	100		
235	61.6	37.0	77.0
272	13.3	0.0	32.7



Instrument :
BNA_F
ClientSampleId :
ICVBF072423

Manual Integrations
APPROVED

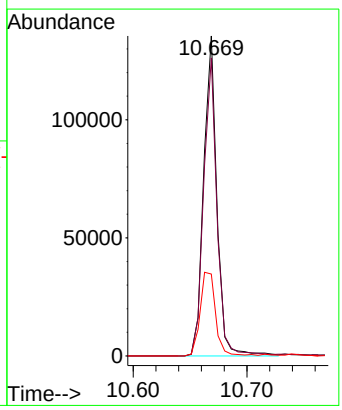
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

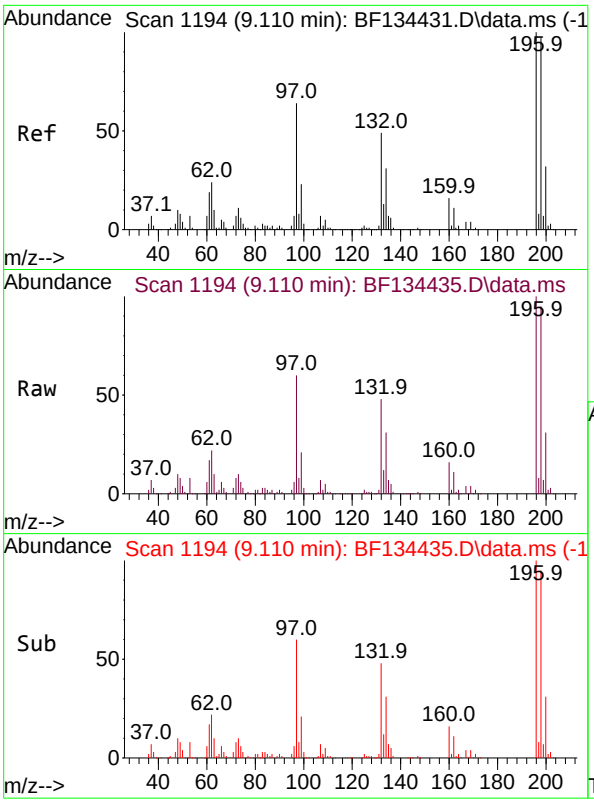


#42
2,4,6-Tribromophenol
Concen: 82.241 ng
RT: 10.669 min Scan# 1459
Delta R.T. 0.000 min
Lab File: BF134435.D
Acq: 24 Jul 2023 18:16

Tgt Ion:330 Resp: 109719

Ion	Ratio	Lower	Upper
330	100		
332	94.2	78.8	118.2
141	30.5	25.4	38.2

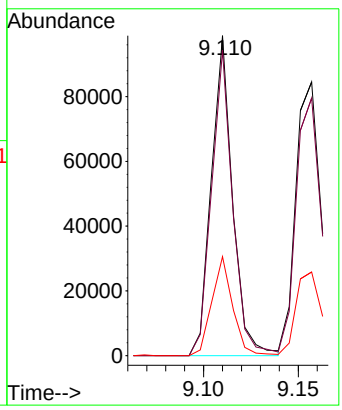




#43
2,4,6-Trichlorophenol
Concen: 40.531 ng
RT: 9.110 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134435.D
Acq: 24 Jul 2023 18:16

Tgt Ion:196 Resp: 7737

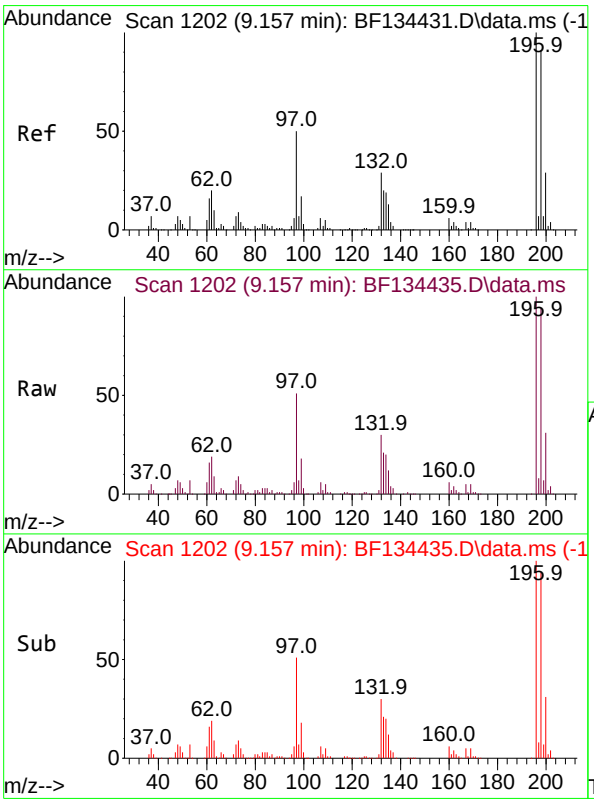
Ion	Ratio	Lower	Upper
196	100		
198	95.5	77.4	116.2
200	30.9	25.4	38.2



Instrument :
BNA_F
ClientSampleId :
ICVBF072423

Manual Integrations
APPROVED

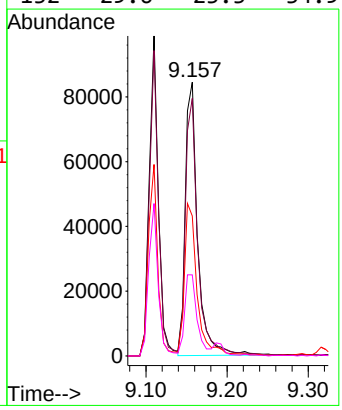
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

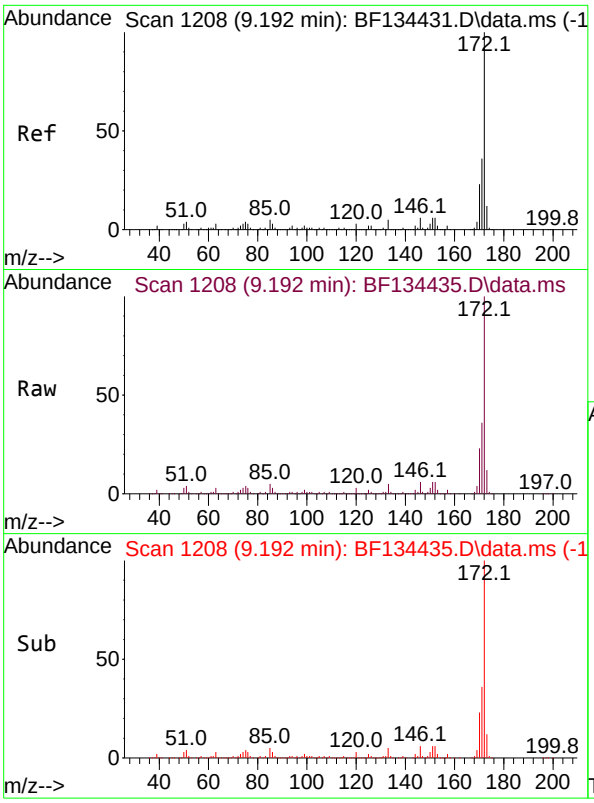


#44
2,4,5-Trichlorophenol
Concen: 40.214 ng
RT: 9.157 min Scan# 1202
Delta R.T. 0.000 min
Lab File: BF134435.D
Acq: 24 Jul 2023 18:16

Tgt Ion:196 Resp: 89439

Ion	Ratio	Lower	Upper
196	100		
198	94.1	73.0	109.4
97	51.2	40.8	61.2
132	29.6	23.3	34.9

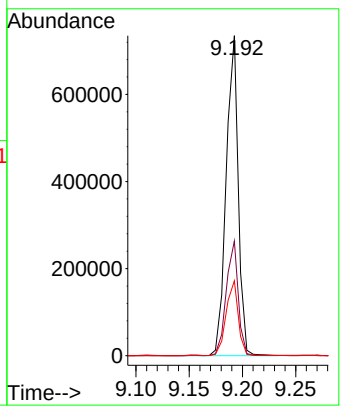




#45
2-Fluorobiphenyl
Concen: 80.759 ng
RT: 9.192 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134435.D
Acq: 24 Jul 2023 18:16

Tgt Ion:172 Resp: 57763

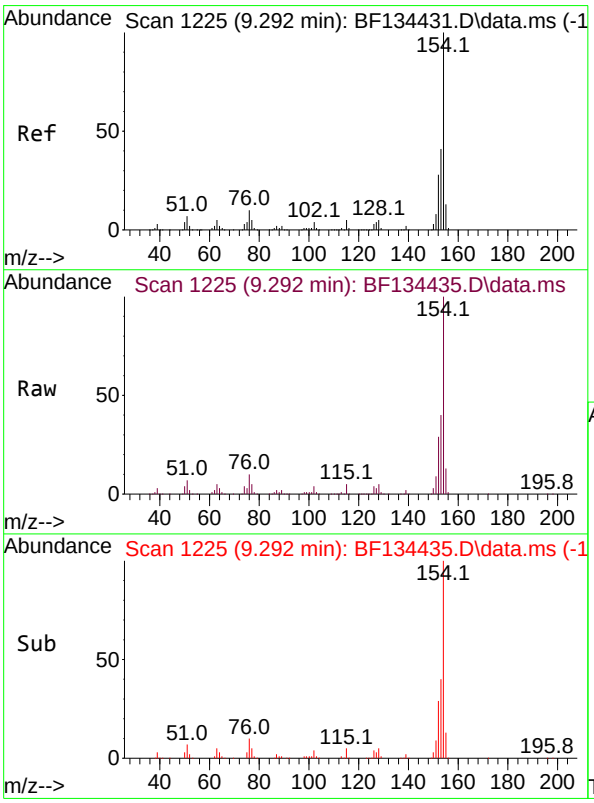
Ion	Ratio	Lower	Upper
172	100		
171	35.8	28.8	43.2
170	23.4	18.7	28.1



Instrument :
BNA_F
ClientSampleId :
ICVBF072423

Manual Integrations
APPROVED

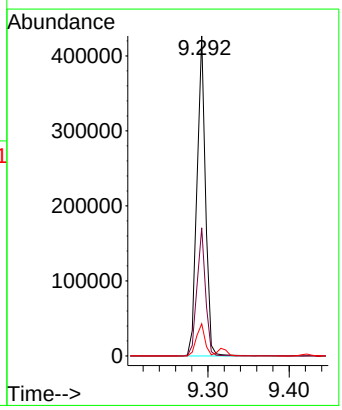
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

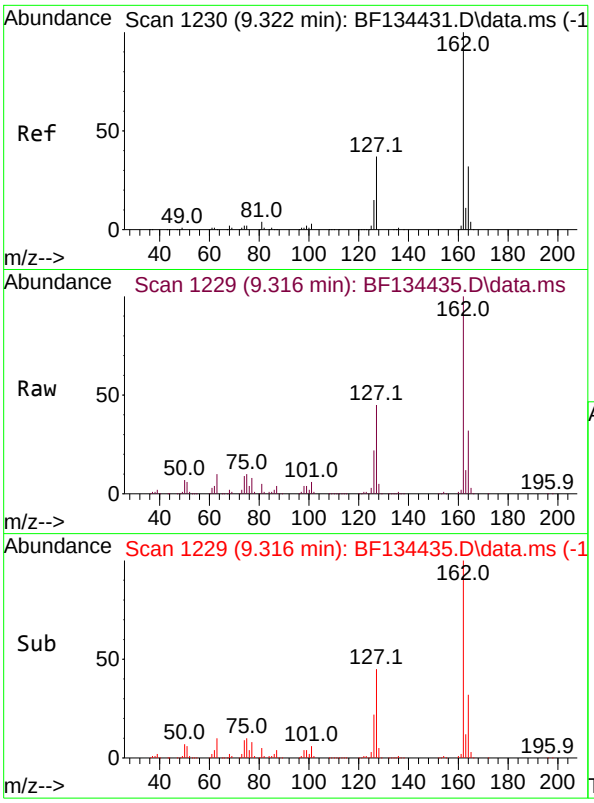


#46
1,1'-Biphenyl
Concen: 40.371 ng
RT: 9.292 min Scan# 1225
Delta R.T. 0.000 min
Lab File: BF134435.D
Acq: 24 Jul 2023 18:16

Tgt Ion:154 Resp: 312434

Ion	Ratio	Lower	Upper
154	100		
153	40.0	20.8	60.8
76	10.1	0.0	30.2

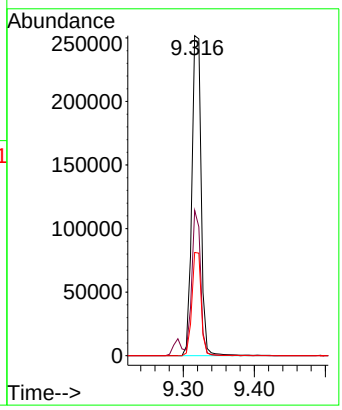




#47
2-Chloronaphthalene
Concen: 40.366 ng
RT: 9.316 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF134435.D
Acq: 24 Jul 2023 18:16

Tgt Ion:162 Resp: 23030

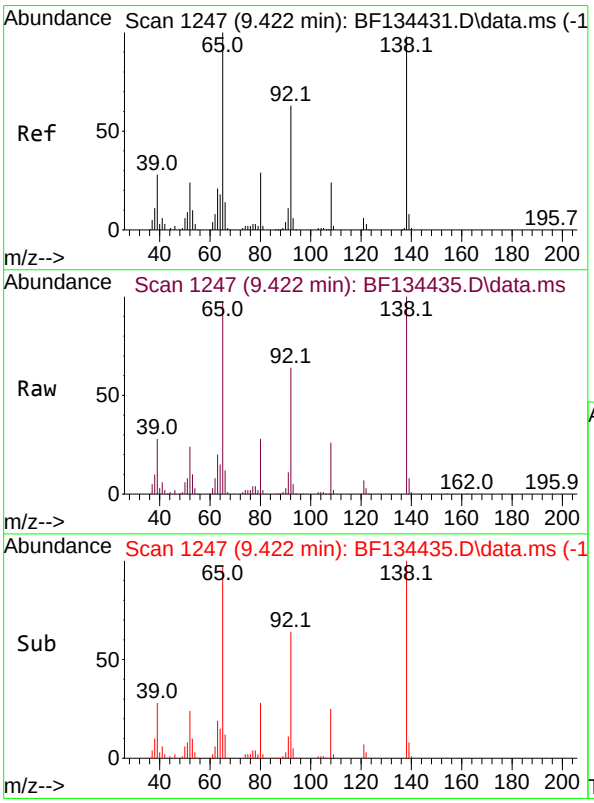
Ion	Ratio	Lower	Upper
162	100		
127	45.4	34.0	51.0
164	32.3	25.7	38.5



Instrument :
BNA_F
ClientSampleId :
ICVBF072423

Manual Integrations APPROVED

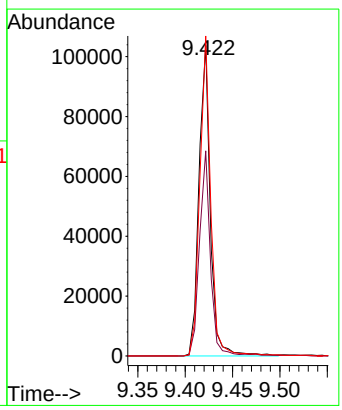
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

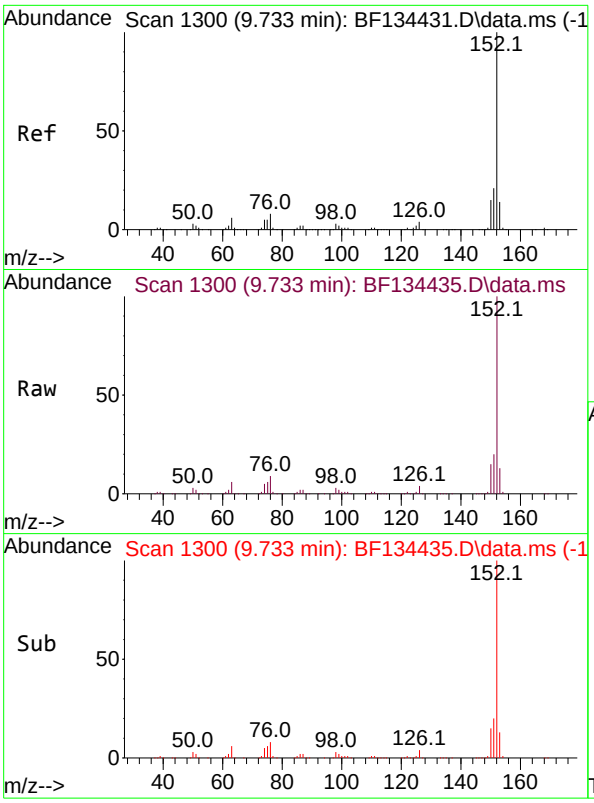


#48
2-Nitroaniline
Concen: 42.063 ng
RT: 9.422 min Scan# 1247
Delta R.T. 0.000 min
Lab File: BF134435.D
Acq: 24 Jul 2023 18:16

Tgt Ion: 65 Resp: 86430

Ion	Ratio	Lower	Upper
65	100		
92	66.1	50.7	76.1
138	103.1	78.2	117.4

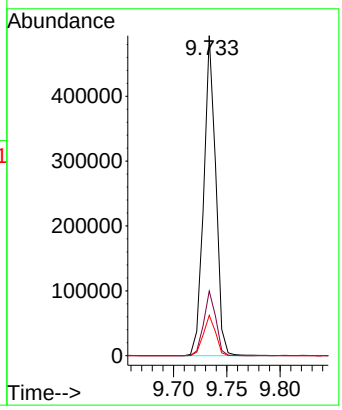




#49
Acenaphthylene
Concen: 40.216 ng
RT: 9.733 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134435.D
Acq: 24 Jul 2023 18:16

Tgt Ion:152 Resp: 38763

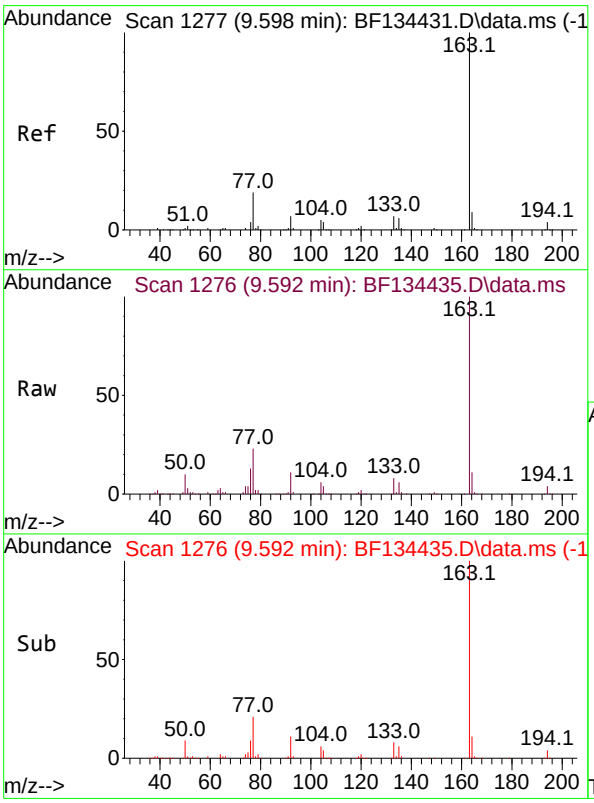
Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.4	24.6
153	12.6	10.9	16.3



Instrument :
BNA_F
ClientSampleId :
ICVBF072423

Manual Integrations APPROVED

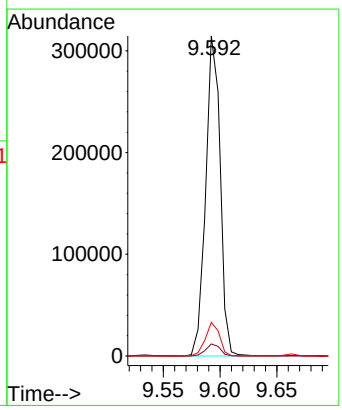
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

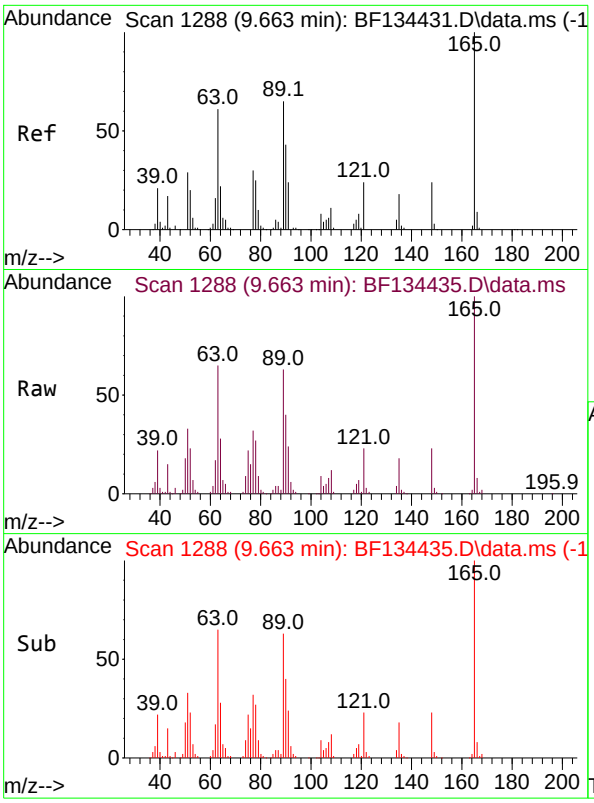


#50
Dimethylphthalate
Concen: 40.055 ng
RT: 9.592 min Scan# 1276
Delta R.T. -0.006 min
Lab File: BF134435.D
Acq: 24 Jul 2023 18:16

Tgt Ion:163 Resp: 278812

Ion	Ratio	Lower	Upper
163	100		
194	3.7	3.3	4.9
164	10.5	7.5	11.3

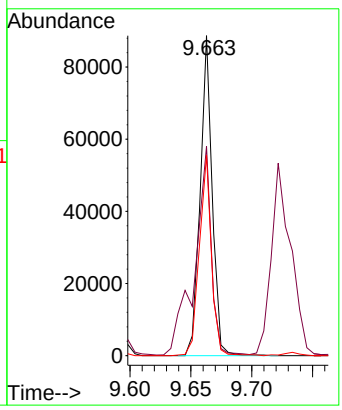




#51
2,6-Dinitrotoluene
Concen: 40.030 ng
RT: 9.663 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF134435.D
Acq: 24 Jul 2023 18:16

Tgt Ion:165 Resp: 6113

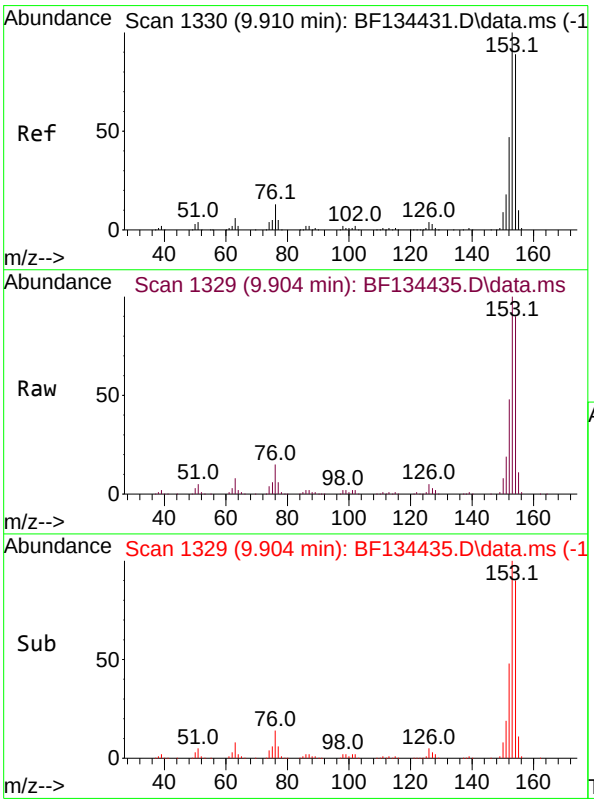
Ion	Ratio	Lower	Upper
165	100		
63	65.5	57.8	86.6
89	62.7	51.8	77.8



Instrument :
BNA_F
ClientSampleId :
ICVBF072423

Manual Integrations
APPROVED

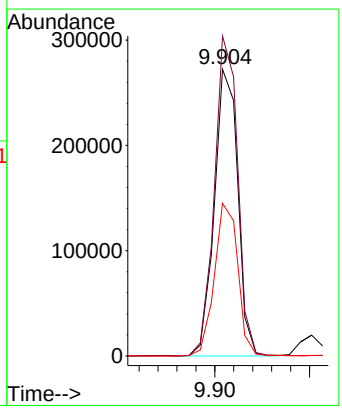
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

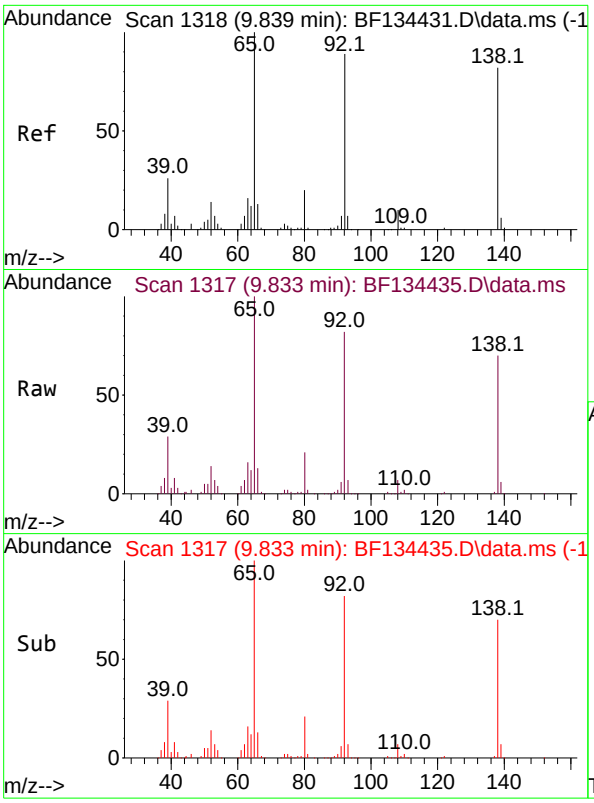


#52
Acenaphthene
Concen: 41.070 ng
RT: 9.904 min Scan# 1329
Delta R.T. -0.006 min
Lab File: BF134435.D
Acq: 24 Jul 2023 18:16

Tgt Ion:154 Resp: 233847

Ion	Ratio	Lower	Upper
154	100		
153	111.6	90.0	135.0
152	53.2	42.4	63.6

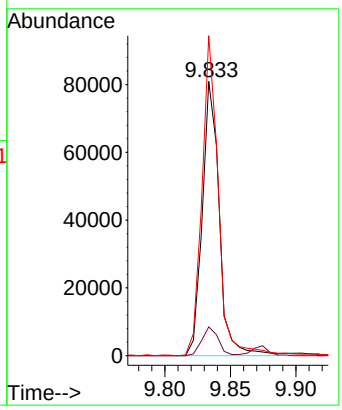




#53
3-Nitroaniline
Concen: 41.598 ng
RT: 9.833 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF134435.D
Acq: 24 Jul 2023 18:16

Tgt Ion:138 Resp: 7284

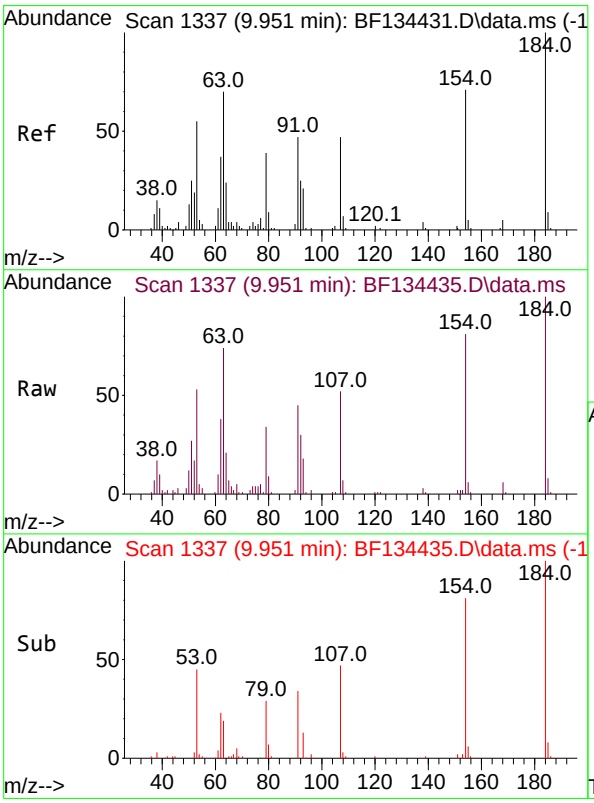
Ion	Ratio	Lower	Upper
138	100		
108	10.5	9.3	13.9
92	116.7	86.6	129.8



Instrument :
BNA_F
ClientSampleId :
ICVBF072423

Manual Integrations
APPROVED

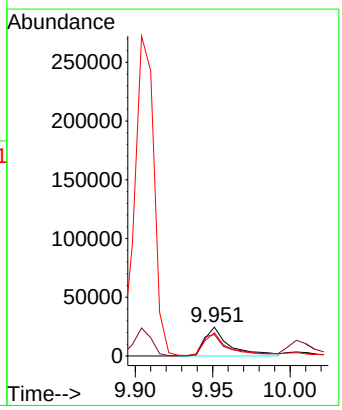
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

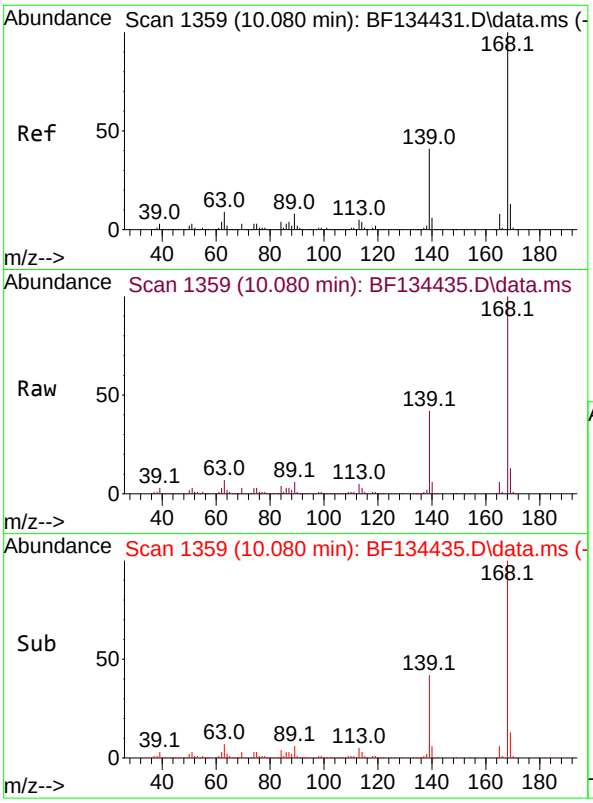


#54
2,4-Dinitrophenol
Concen: 37.380 ng
RT: 9.951 min Scan# 1337
Delta R.T. 0.000 min
Lab File: BF134435.D
Acq: 24 Jul 2023 18:16

Tgt Ion:184 Resp: 26897

Ion	Ratio	Lower	Upper
184	100		
63	74.4	57.1	85.7
154	80.6	59.1	88.7

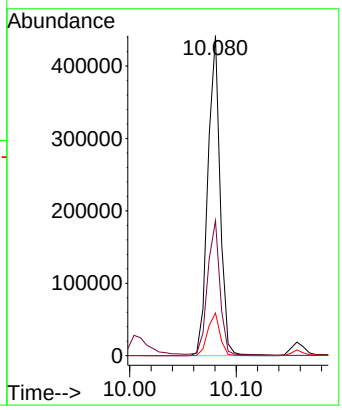




#55
Dibenzofuran
Concen: 40.272 ng
RT: 10.080 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134435.D
Acq: 24 Jul 2023 18:16

Tgt Ion:168 Resp: 35291

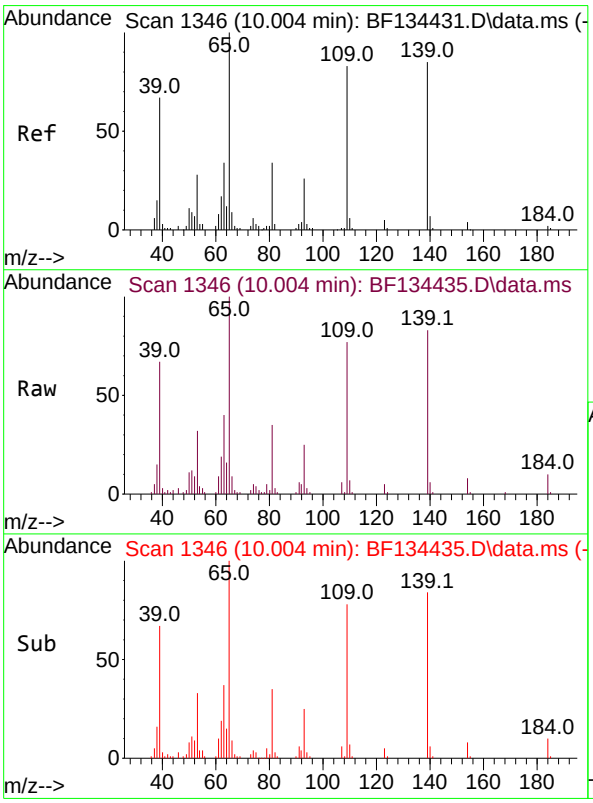
Ion	Ratio	Lower	Upper
168	100		
139	42.2	33.4	50.2
169	13.3	10.6	15.8



Instrument :
BNA_F
ClientSampleId :
ICVBF072423

Manual Integrations APPROVED

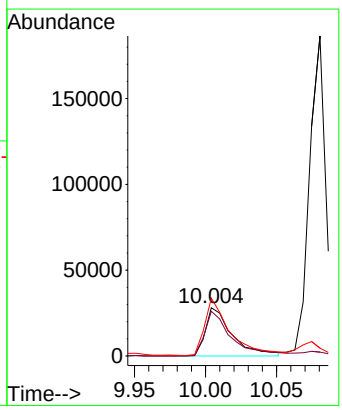
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

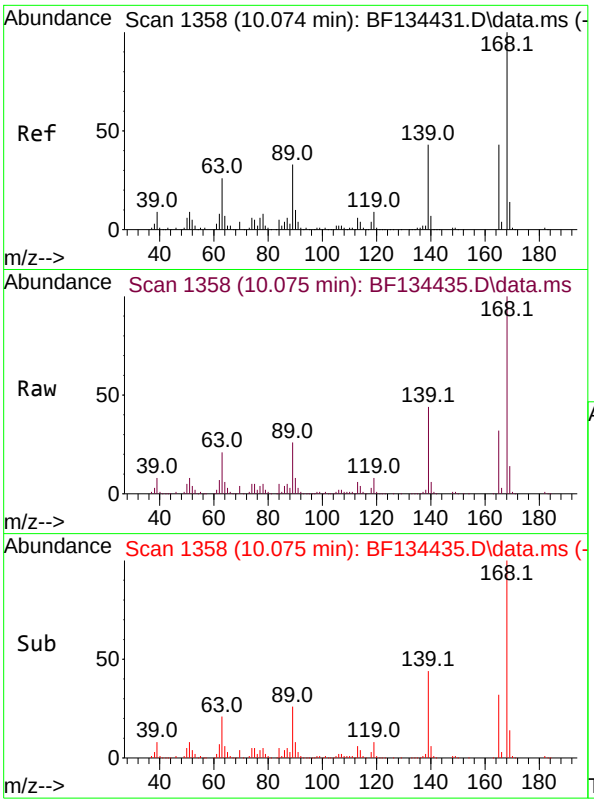


#56
4-Nitrophenol
Concen: 39.250 ng
RT: 10.004 min Scan# 1346
Delta R.T. 0.000 min
Lab File: BF134435.D
Acq: 24 Jul 2023 18:16

Tgt Ion:139 Resp: 36653

Ion	Ratio	Lower	Upper
139	100		
109	92.8	76.9	116.9
65	120.0	98.5	138.5

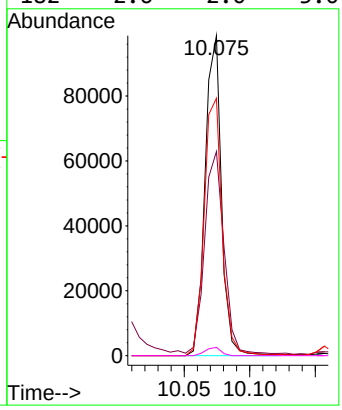




#57
2,4-Dinitrotoluene
Concen: 41.664 ng
RT: 10.075 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134435.D
Acq: 24 Jul 2023 18:16

Tgt Ion:165 Resp: 8547

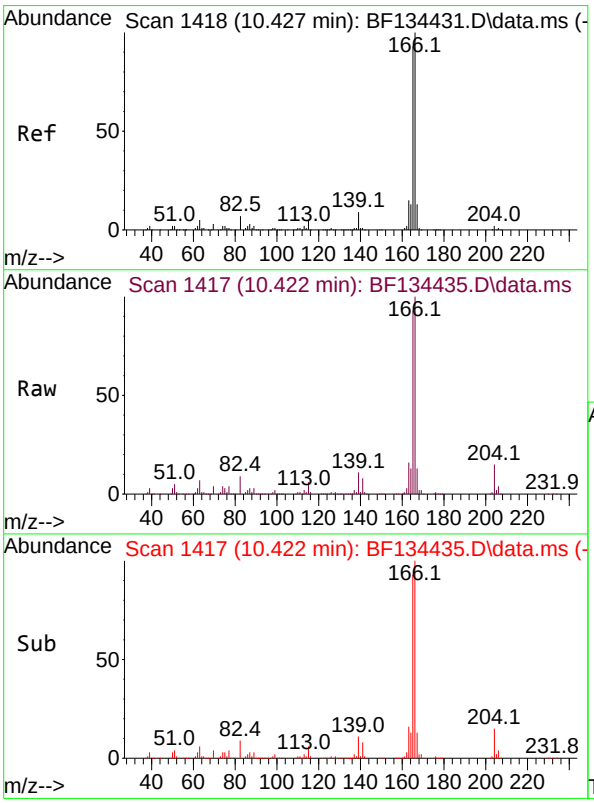
Ion	Ratio	Lower	Upper
165	100		
63	63.8	48.9	73.3
89	80.5	61.7	92.5
182	2.6	2.0	3.0



Instrument :
BNA_F
ClientSampleId :
ICVBF072423

Manual Integrations APPROVED

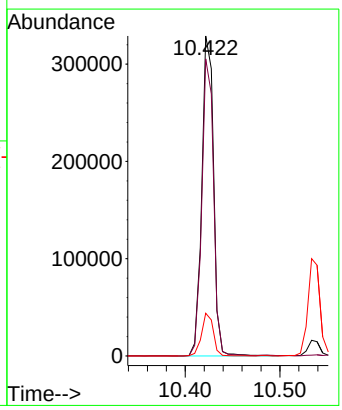
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

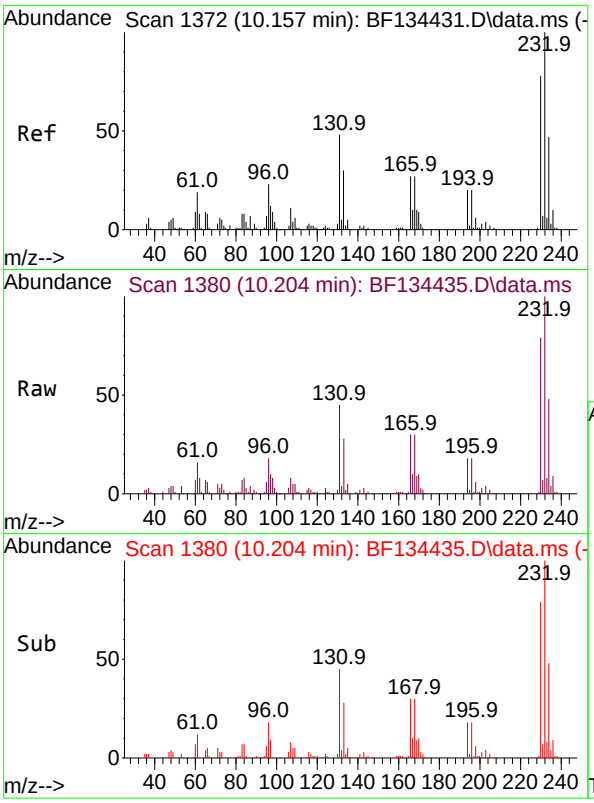


#58
Fluorene
Concen: 40.390 ng
RT: 10.422 min Scan# 1417
Delta R.T. -0.005 min
Lab File: BF134435.D
Acq: 24 Jul 2023 18:16

Tgt Ion:166 Resp: 285543

Ion	Ratio	Lower	Upper
166	100		
165	92.8	74.5	111.7
167	13.3	10.6	16.0

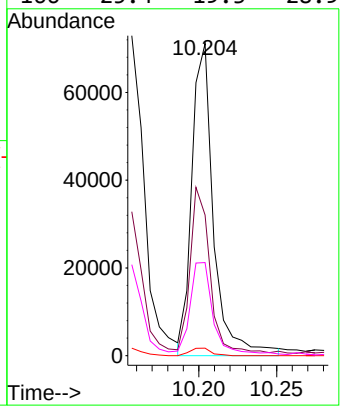




#59
2,3,4,6-Tetrachlorophenol
Concen: 40.536 ng m
RT: 10.204 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134435.D
Acq: 24 Jul 2023 18:16

Tgt Ion:232 Resp: 6926

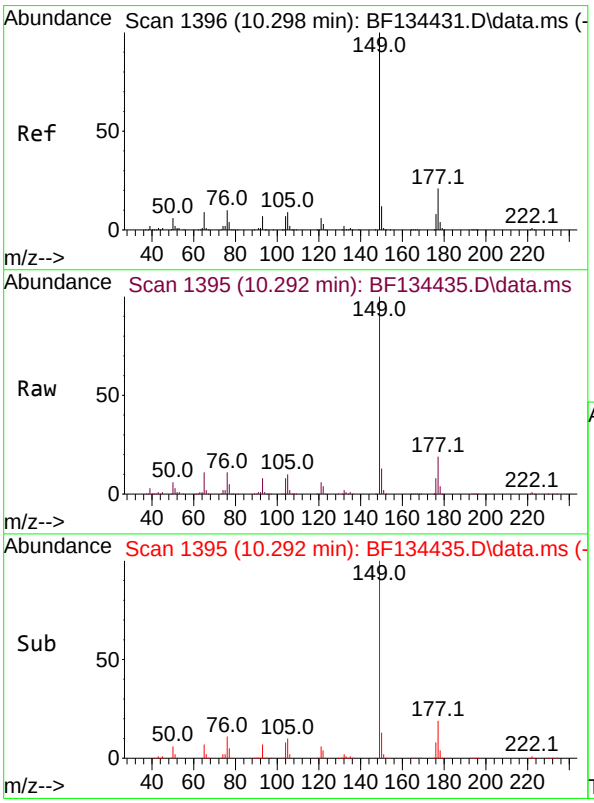
Ion	Ratio	Lower	Upper
232	100		
131	41.7	33.4	50.0
130	2.2	1.8	2.6
166	25.4	19.3	28.9



Instrument :
BNA_F
ClientSampleId :
ICVBF072423

Manual Integrations
APPROVED

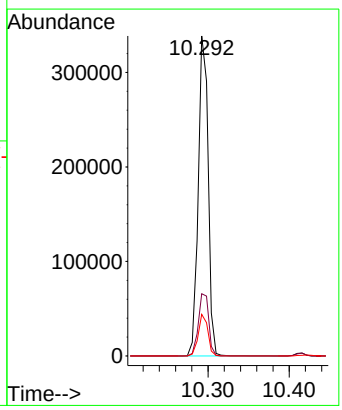
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

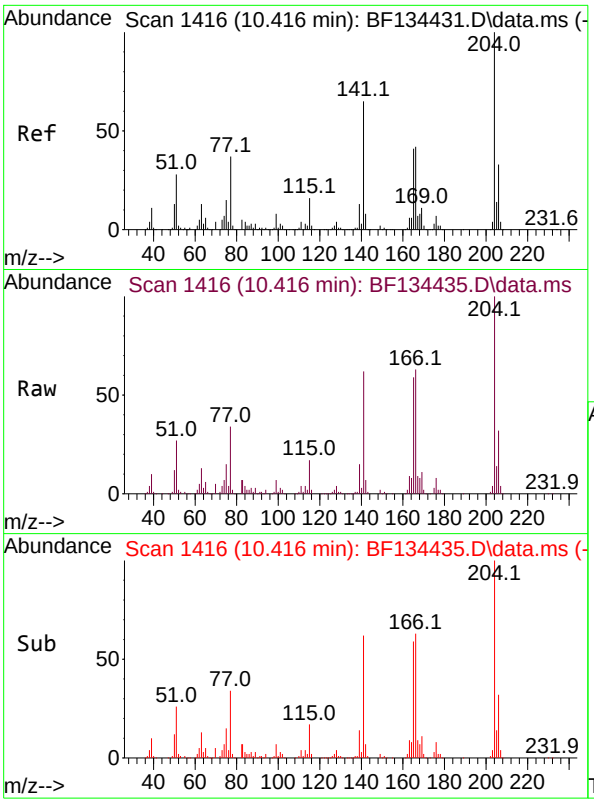


#60
Diethylphthalate
Concen: 40.064 ng
RT: 10.292 min Scan# 1395
Delta R.T. -0.006 min
Lab File: BF134435.D
Acq: 24 Jul 2023 18:16

Tgt Ion:149 Resp: 288724

Ion	Ratio	Lower	Upper
149	100		
177	19.4	17.0	25.4
150	13.0	9.9	14.9

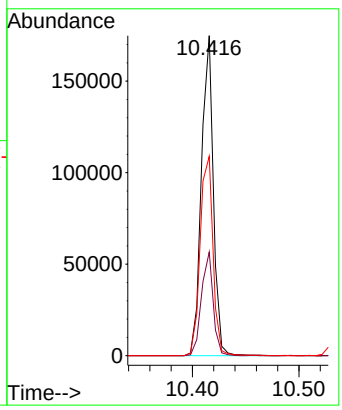




#61
4-Chlorophenyl-phenylether
Concen: 40.476 ng
RT: 10.416 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF134435.D
Acq: 24 Jul 2023 18:16

Tgt Ion:204 Resp: 13669

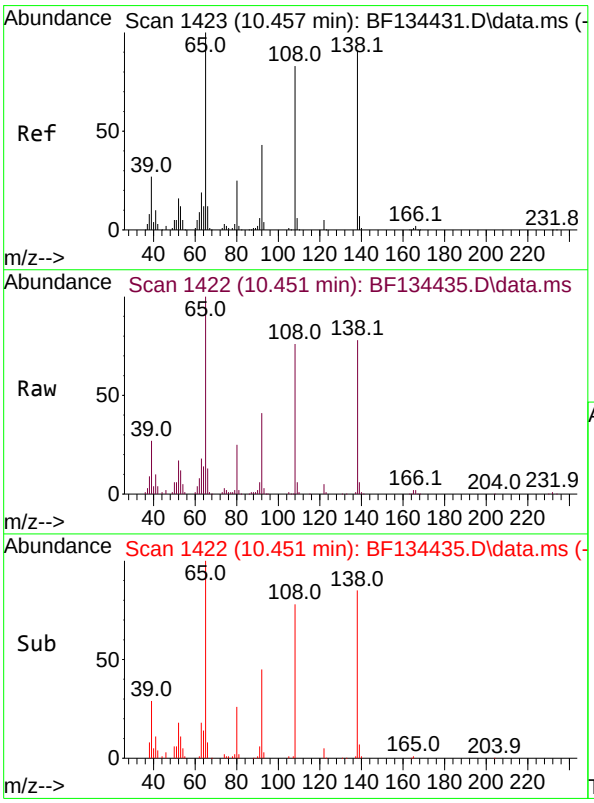
Ion	Ratio	Lower	Upper
204	100		
206	32.4	26.0	39.0
141	62.3	52.2	78.4



Instrument :
BNA_F
ClientSampleId :
ICVBF072423

Manual Integrations
APPROVED

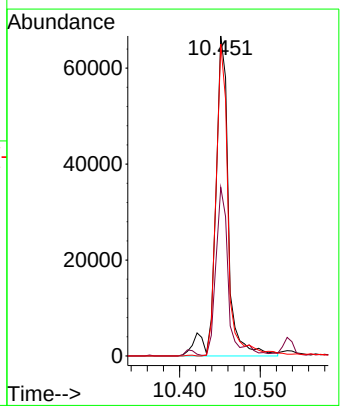
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

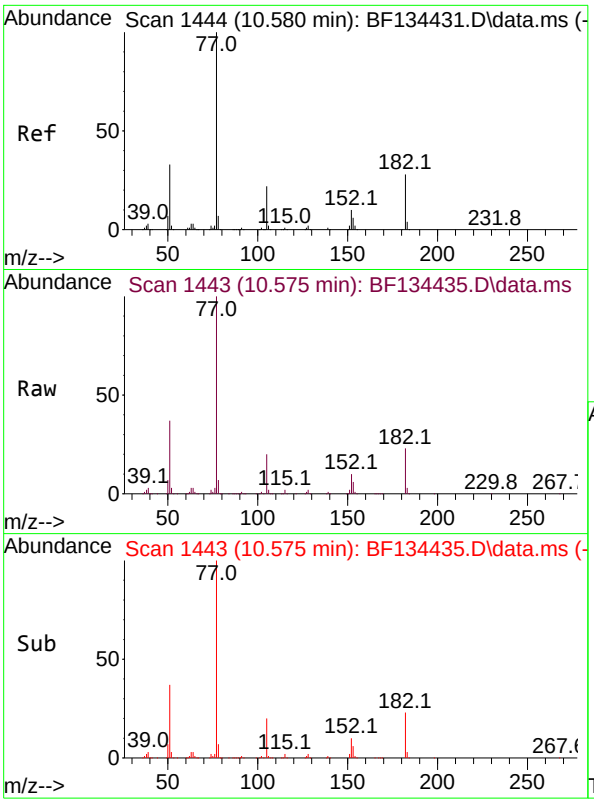


#62
4-Nitroaniline
Concen: 41.397 ng m
RT: 10.451 min Scan# 1422
Delta R.T. -0.006 min
Lab File: BF134435.D
Acq: 24 Jul 2023 18:16

Tgt Ion:138 Resp: 74374

Ion	Ratio	Lower	Upper
138	100		
92	52.7	27.0	67.0
108	97.4	70.4	110.4

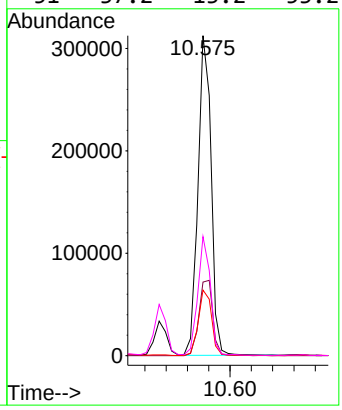




#63
Azobenzene
Concen: 40.522 ng
RT: 10.575 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF134435.D
Acq: 24 Jul 2023 18:16

Tgt Ion: 77 Resp: 26879

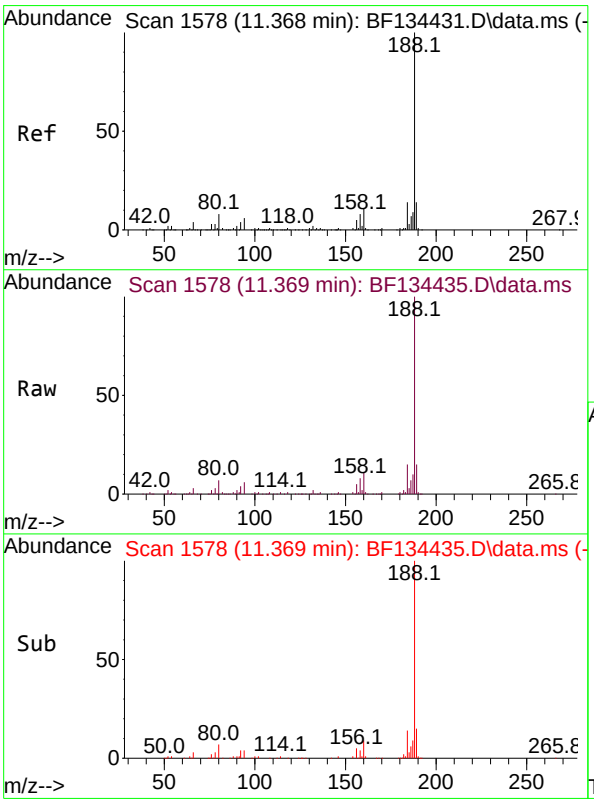
Ion	Ratio	Lower	Upper
77	100		
182	23.0	7.5	47.5
105	20.5	1.9	41.9
51	37.2	13.2	53.2



Instrument :
BNA_F
ClientSampleId :
ICVBF072423

Manual Integrations APPROVED

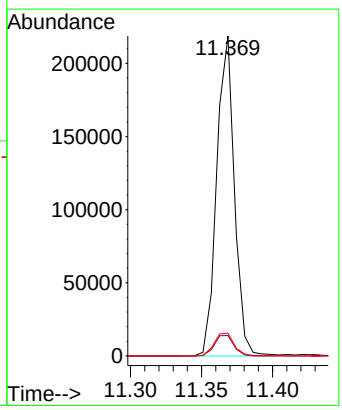
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

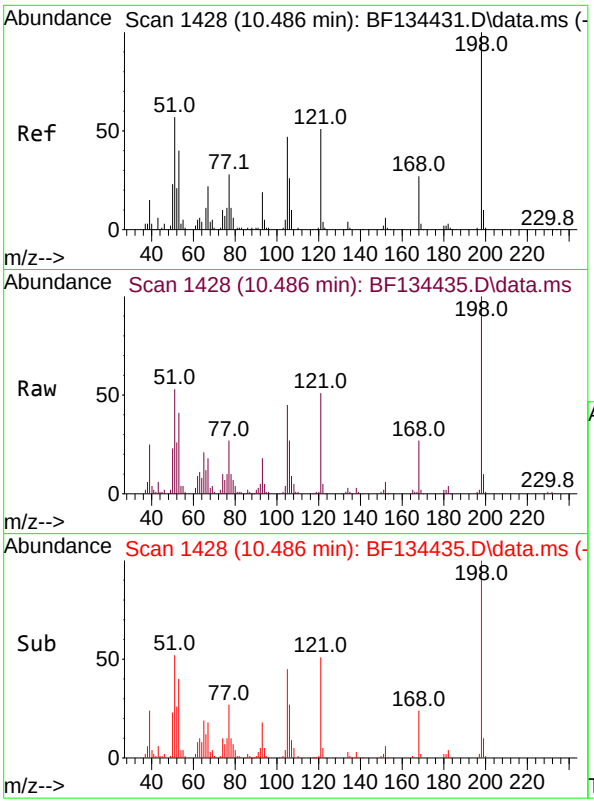


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.369 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BF134435.D
Acq: 24 Jul 2023 18:16

Tgt Ion:188 Resp: 189337

Ion	Ratio	Lower	Upper
188	100		
94	6.4	5.1	7.7
80	7.2	6.6	9.8

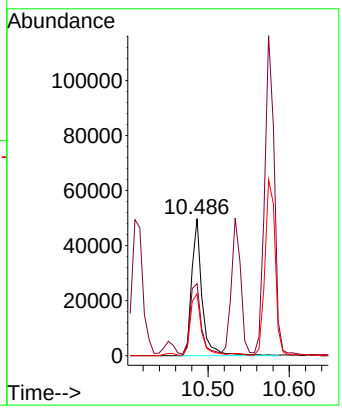




#65
4,6-Dinitro-2-methylphenol
Concen: 40.807 ng
RT: 10.486 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF134435.D
Acq: 24 Jul 2023 18:16

Tgt Ion:198 Resp: 4432

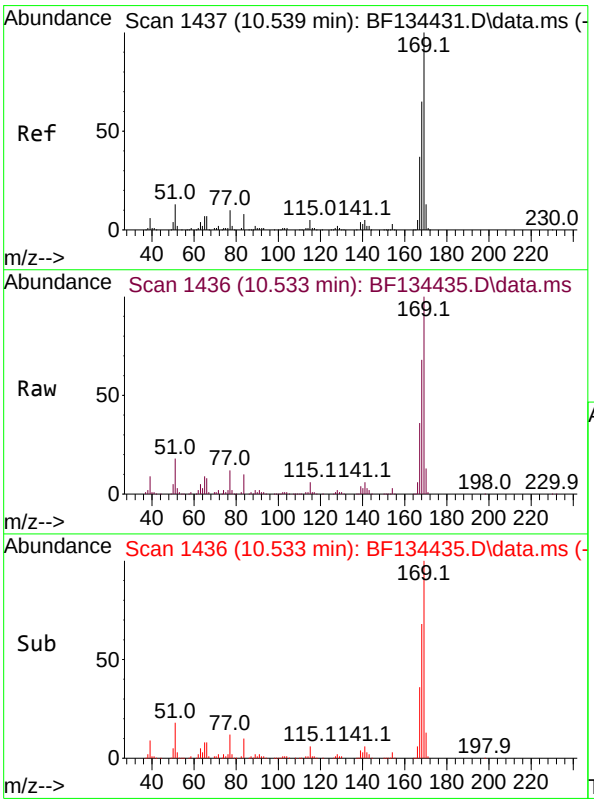
Ion	Ratio	Lower	Upper
198	100		
51	52.6	38.6	78.6
105	45.3	27.9	67.9



Instrument :
BNA_F
ClientSampleId :
ICVBF072423

Manual Integrations
APPROVED

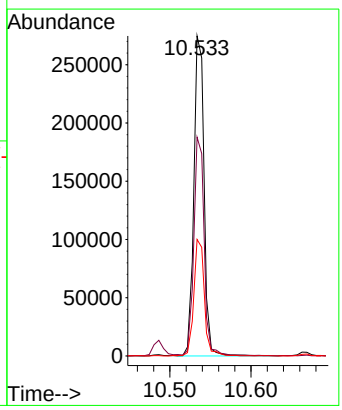
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

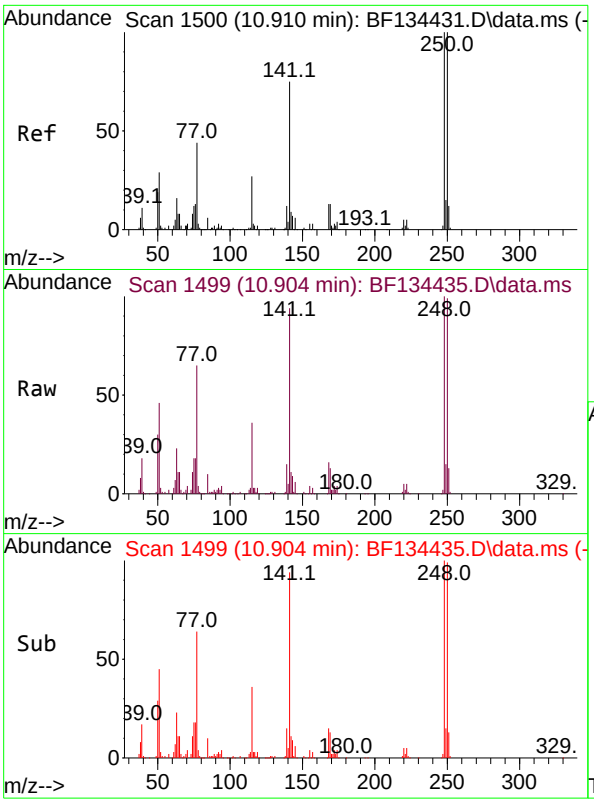


#66
n-Nitrosodiphenylamine
Concen: 40.214 ng
RT: 10.533 min Scan# 1436
Delta R.T. -0.006 min
Lab File: BF134435.D
Acq: 24 Jul 2023 18:16

Tgt Ion:169 Resp: 242240

Ion	Ratio	Lower	Upper
169	100		
168	68.4	52.6	78.8
167	36.4	29.8	44.8

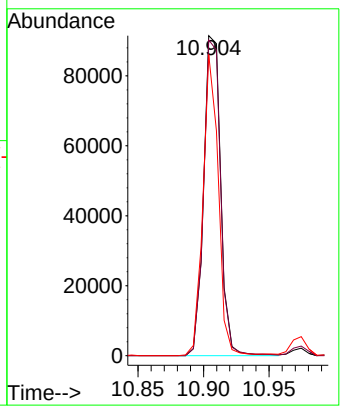




#67
4-Bromophenyl-phenylether
Concen: 39.890 ng
RT: 10.904 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF134435.D
Acq: 24 Jul 2023 18:16

Tgt Ion:248 Resp: 8275

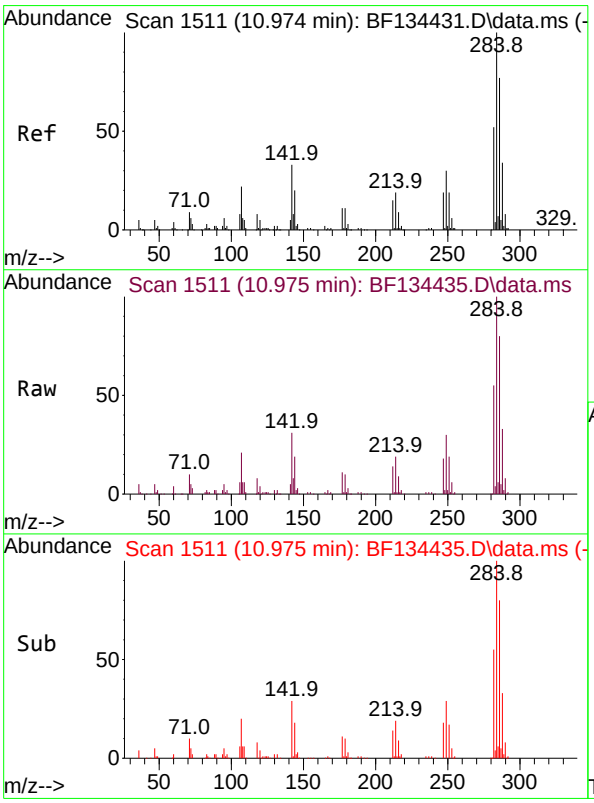
Ion	Ratio	Lower	Upper
248	100		
250	98.7	79.6	119.4
141	94.1	59.6	89.4



Instrument :
BNA_F
ClientSampleId :
ICVBF072423

Manual Integrations
APPROVED

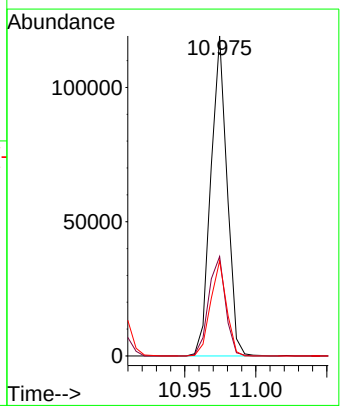
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

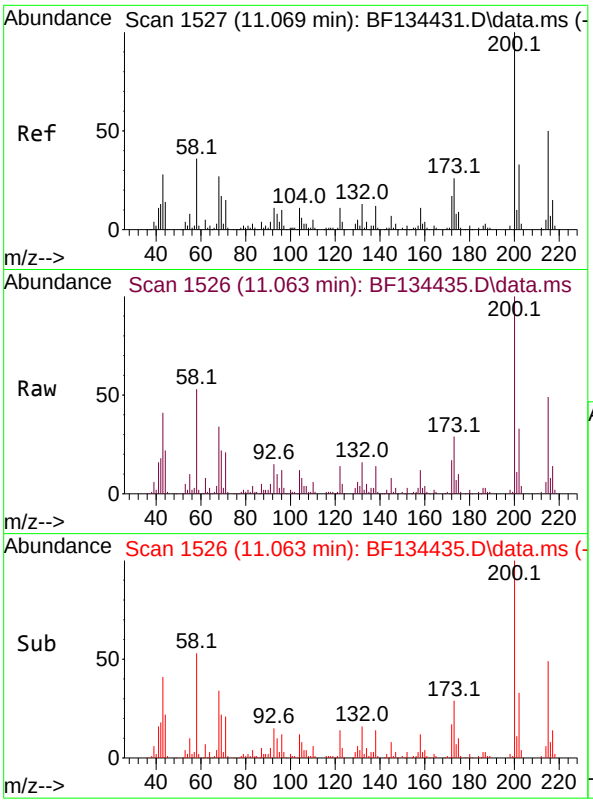


#68
Hexachlorobenzene
Concen: 40.380 ng
RT: 10.975 min Scan# 1511
Delta R.T. 0.000 min
Lab File: BF134435.D
Acq: 24 Jul 2023 18:16

Tgt Ion:284 Resp: 94329

Ion	Ratio	Lower	Upper
284	100		
142	31.1	26.5	39.7
249	29.8	23.8	35.8

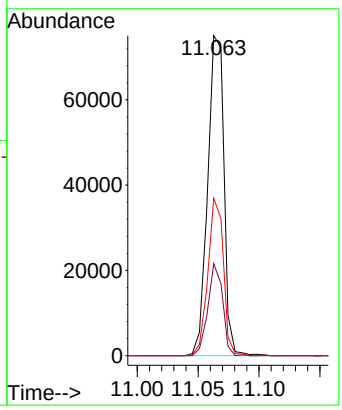




#69
Atrazine
Concen: 41.716 ng
RT: 11.063 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF134435.D
Acq: 24 Jul 2023 18:16

Tgt Ion:200 Resp: 7006

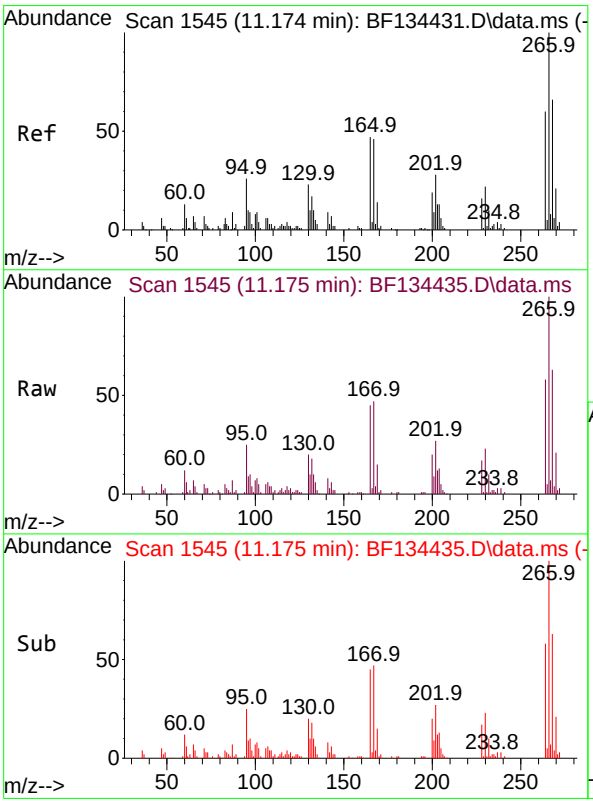
Ion	Ratio	Lower	Upper
200	100		
173	28.8	6.1	46.1
215	49.2	29.7	69.7



Instrument :
BNA_F
ClientSampleId :
ICVBF072423

Manual Integrations
APPROVED

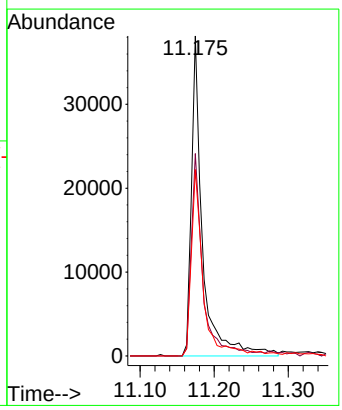
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

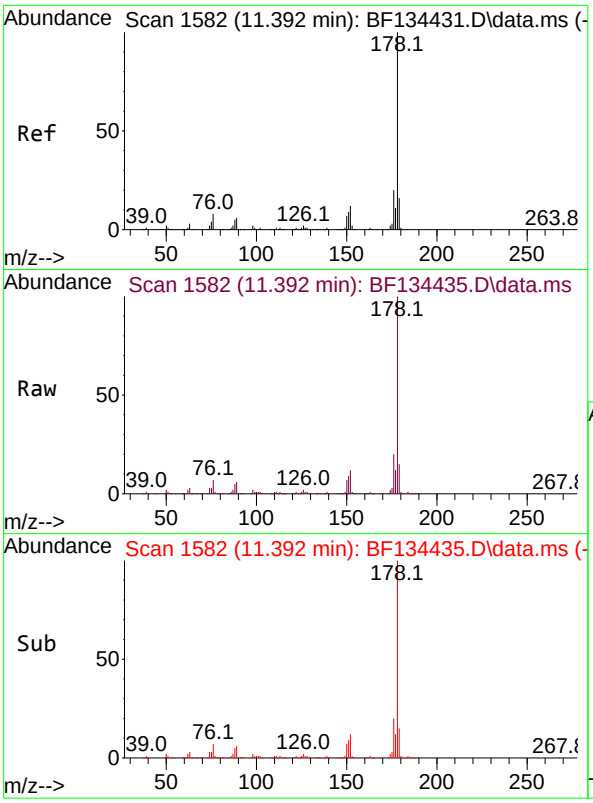


#70
Pentachlorophenol
Concen: 40.604 ng
RT: 11.175 min Scan# 1545
Delta R.T. 0.001 min
Lab File: BF134435.D
Acq: 24 Jul 2023 18:16

Tgt Ion:266 Resp: 39806

Ion	Ratio	Lower	Upper
266	100		
268	63.3	52.9	79.3
264	58.3	47.8	71.6

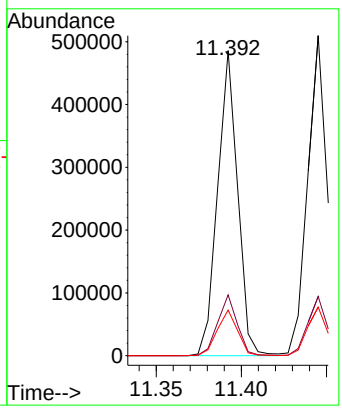




#71
Phenanthrene
Concen: 40.194 ng
RT: 11.392 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134435.D
Acq: 24 Jul 2023 18:16

Tgt Ion:178 Resp: 39761

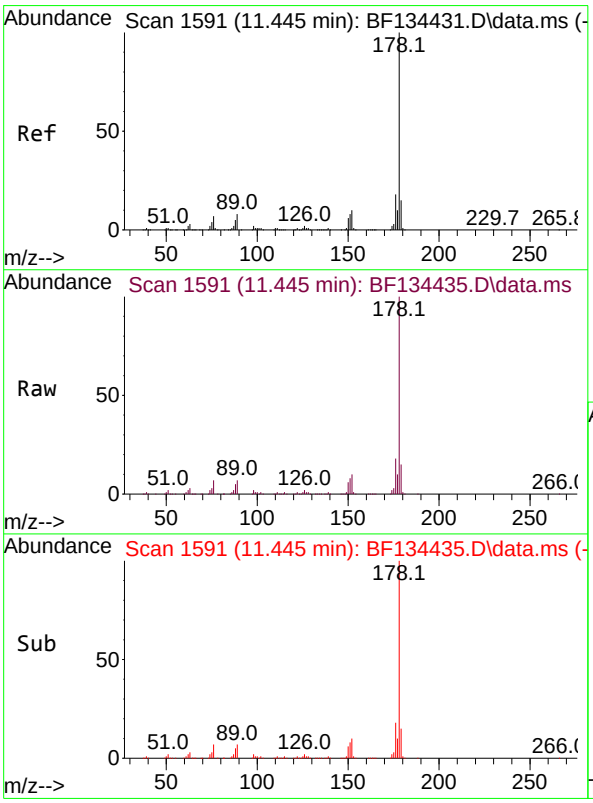
Ion	Ratio	Lower	Upper
178	100		
176	19.9	15.8	23.6
179	14.9	12.7	19.1



Instrument :
BNA_F
ClientSampleId :
ICVBF072423

Manual Integrations APPROVED

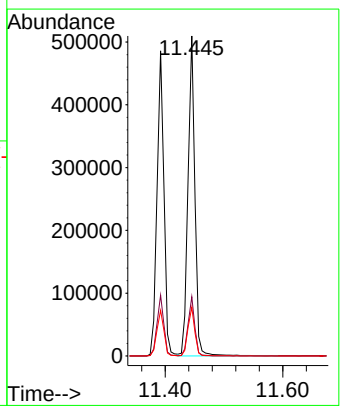
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

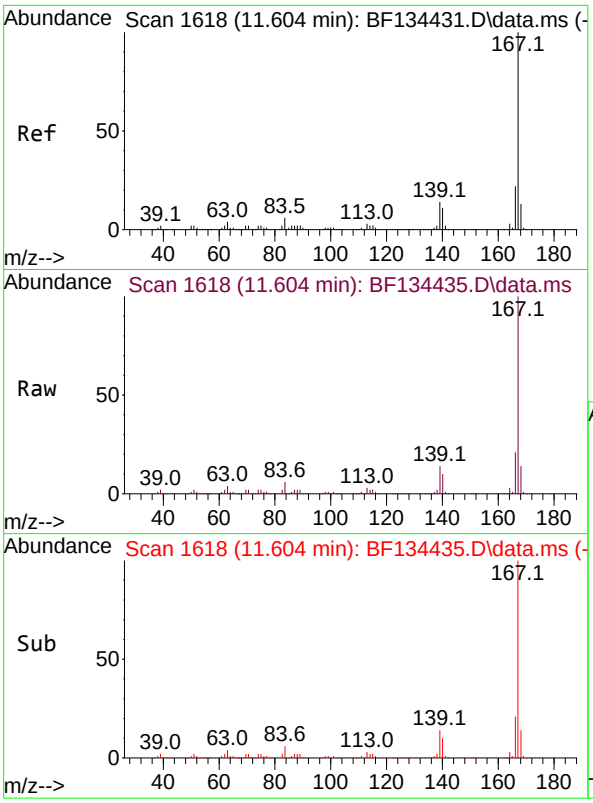


#72
Anthracene
Concen: 40.715 ng
RT: 11.445 min Scan# 1591
Delta R.T. 0.000 min
Lab File: BF134435.D
Acq: 24 Jul 2023 18:16

Tgt Ion:178 Resp: 415714

Ion	Ratio	Lower	Upper
178	100		
176	18.5	14.6	21.8
179	15.2	12.3	18.5

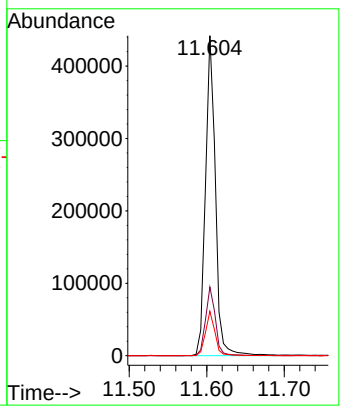




#73
Carbazole
Concen: 40.918 ng
RT: 11.604 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134435.D
Acq: 24 Jul 2023 18:16

Tgt Ion:167 Resp: 39341

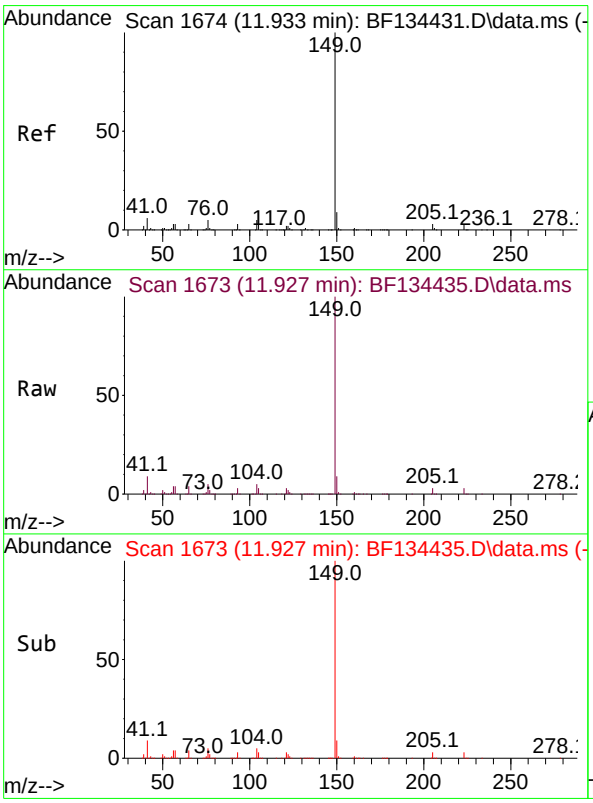
Ion	Ratio	Lower	Upper
167	100		
166	21.4	17.5	26.3
139	13.9	11.0	16.4



Instrument :
BNA_F
ClientSampleId :
ICVBF072423

Manual Integrations
APPROVED

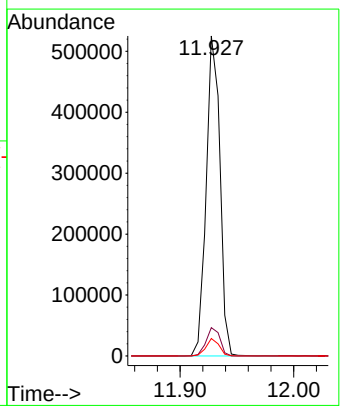
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

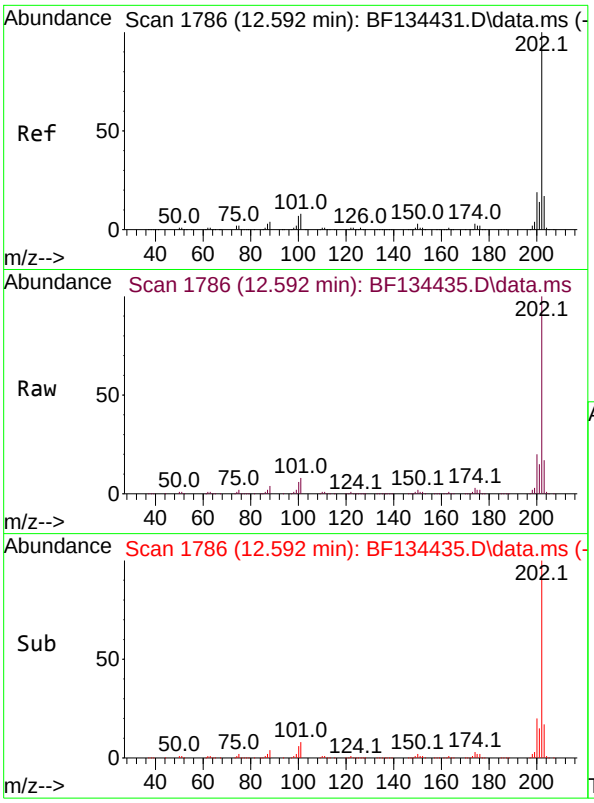


#74
Di-n-butylphthalate
Concen: 39.947 ng
RT: 11.927 min Scan# 1673
Delta R.T. -0.006 min
Lab File: BF134435.D
Acq: 24 Jul 2023 18:16

Tgt Ion:149 Resp: 440899

Ion	Ratio	Lower	Upper
149	100		
150	8.8	7.2	10.8
104	5.5	3.8	5.8

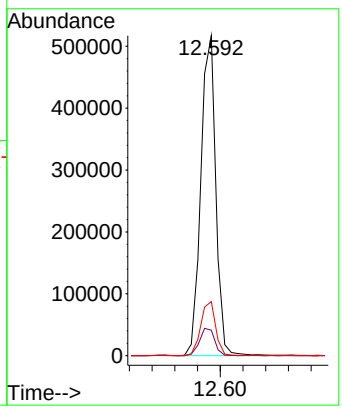




#75
Fluoranthene
Concen: 40.955 ng
RT: 12.592 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134435.D
Acq: 24 Jul 2023 18:16

Tgt Ion:202 Resp: 47218

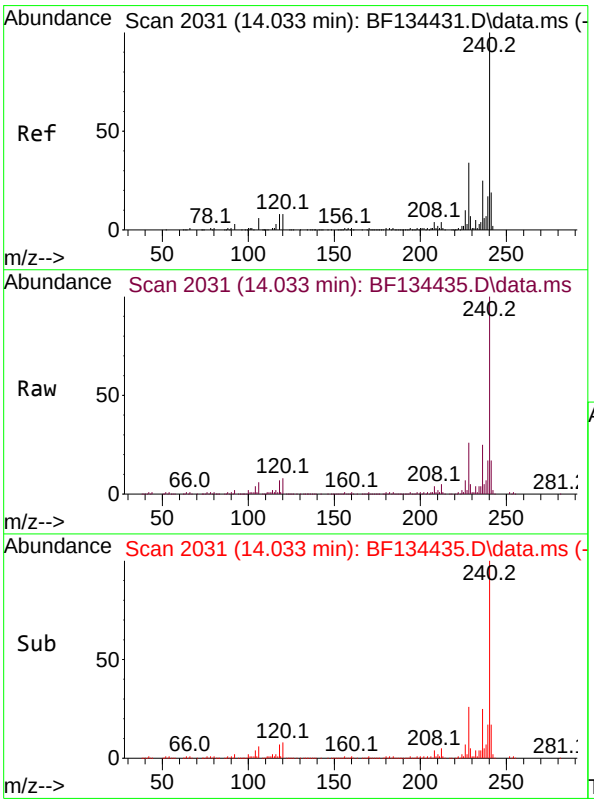
Ion	Ratio	Lower	Upper
202	100		
101	7.9	0.0	28.5
203	16.9	0.0	37.5



Instrument :
BNA_F
ClientSampleId :
ICVBF072423

Manual Integrations APPROVED

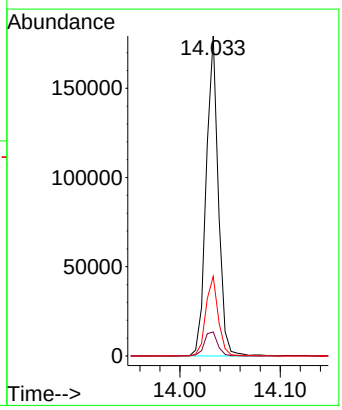
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

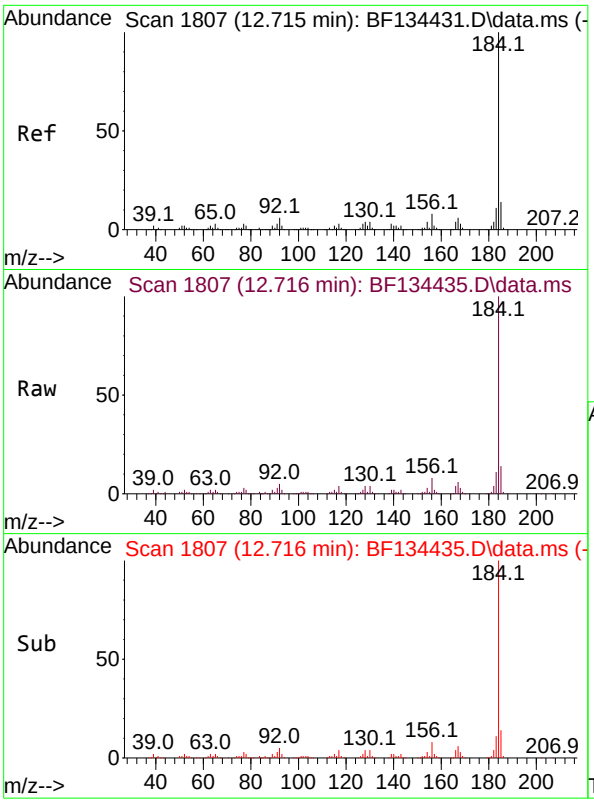


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.033 min Scan# 2031
Delta R.T. 0.000 min
Lab File: BF134435.D
Acq: 24 Jul 2023 18:16

Tgt Ion:240 Resp: 150677

Ion	Ratio	Lower	Upper
240	100		
120	7.5	6.6	10.0
236	24.8	20.2	30.2

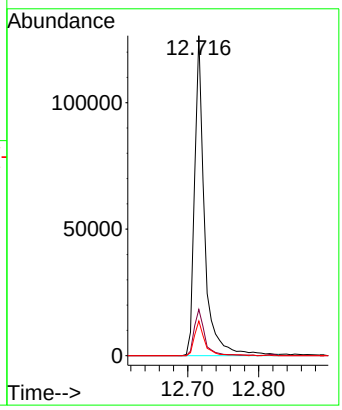




#77
Benzidine
Concen: 38.592 ng
RT: 12.716 min Scan# 1
Delta R.T. 0.001 min
Lab File: BF134435.D
Acq: 24 Jul 2023 18:16

Tgt Ion:184 Resp: 12416

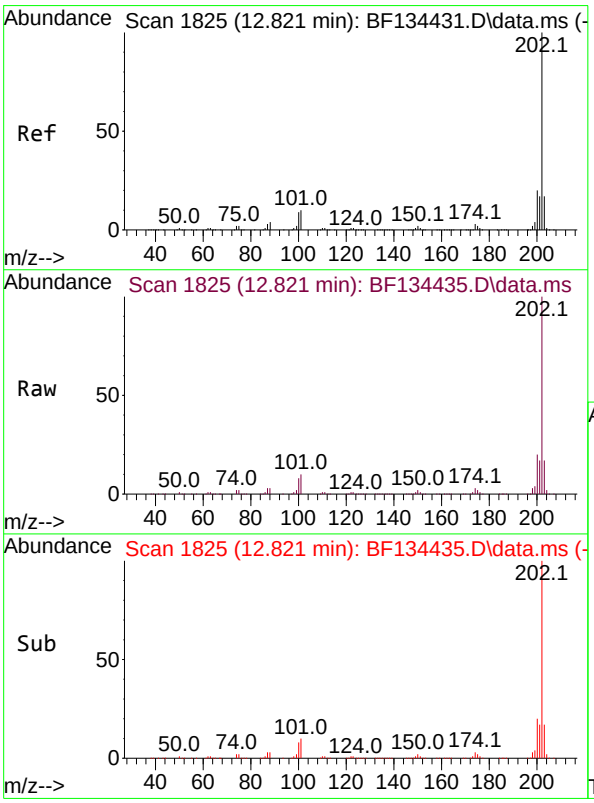
Ion	Ratio	Lower	Upper
184	100		
185	14.4	11.2	16.8
183	10.8	8.6	13.0



Instrument :
BNA_F
ClientSampleId :
ICVBF072423

Manual Integrations
APPROVED

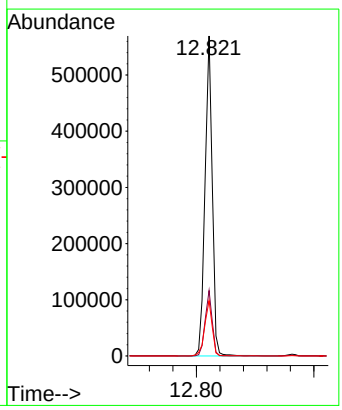
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

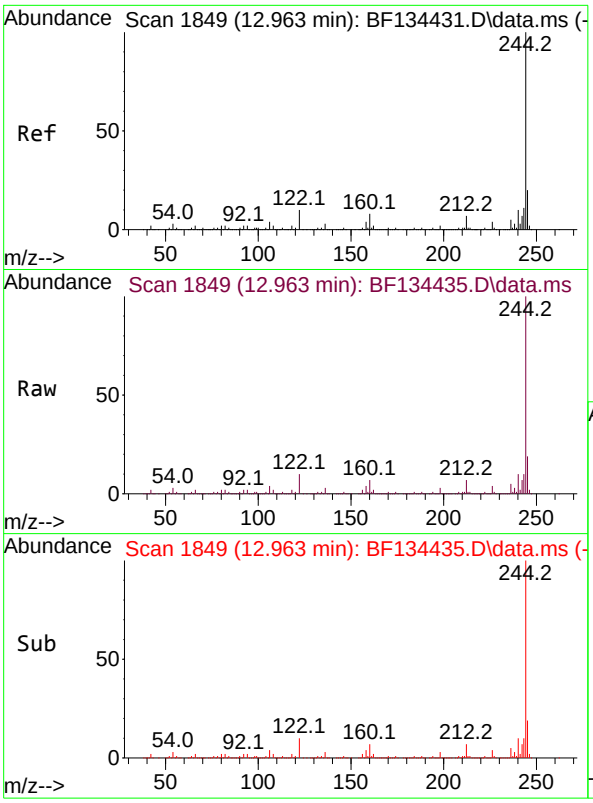


#78
Pyrene
Concen: 40.700 ng
RT: 12.821 min Scan# 1825
Delta R.T. 0.000 min
Lab File: BF134435.D
Acq: 24 Jul 2023 18:16

Tgt Ion:202 Resp: 487618

Ion	Ratio	Lower	Upper
202	100		
200	20.4	15.8	23.8
203	17.3	13.5	20.3

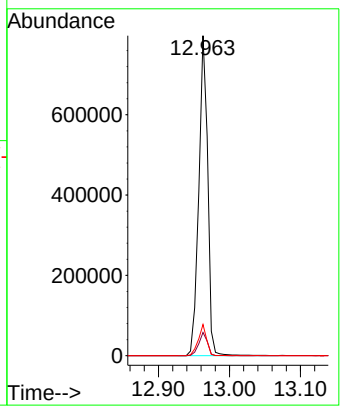




#79
Terphenyl-d14
Concen: 80.774 ng
RT: 12.963 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134435.D
Acq: 24 Jul 2023 18:16

Tgt Ion:244 Resp: 69720

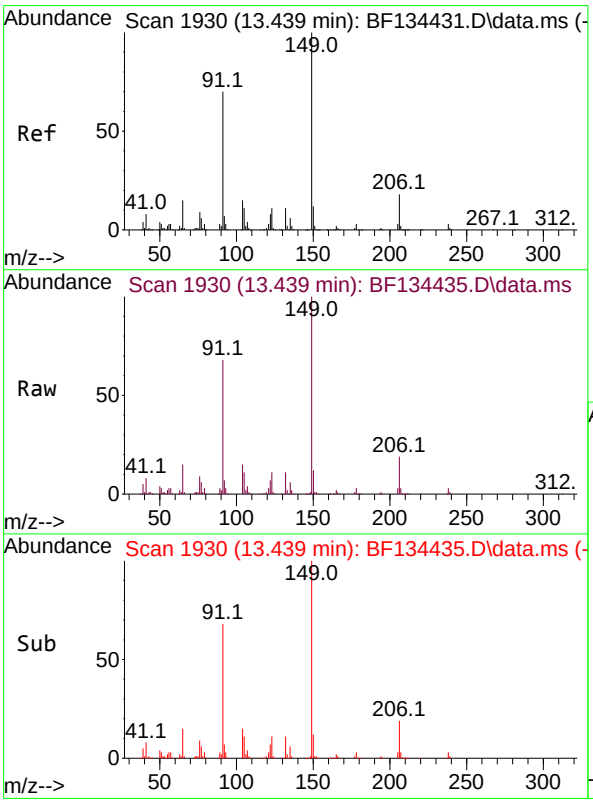
Ion	Ratio	Lower	Upper
244	100		
212	7.3	5.6	8.4
122	9.7	8.0	12.0



Instrument :
BNA_F
ClientSampleId :
ICVBF072423

Manual Integrations APPROVED

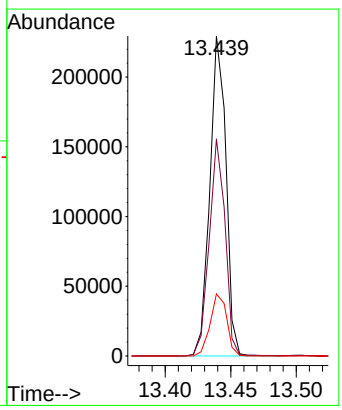
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

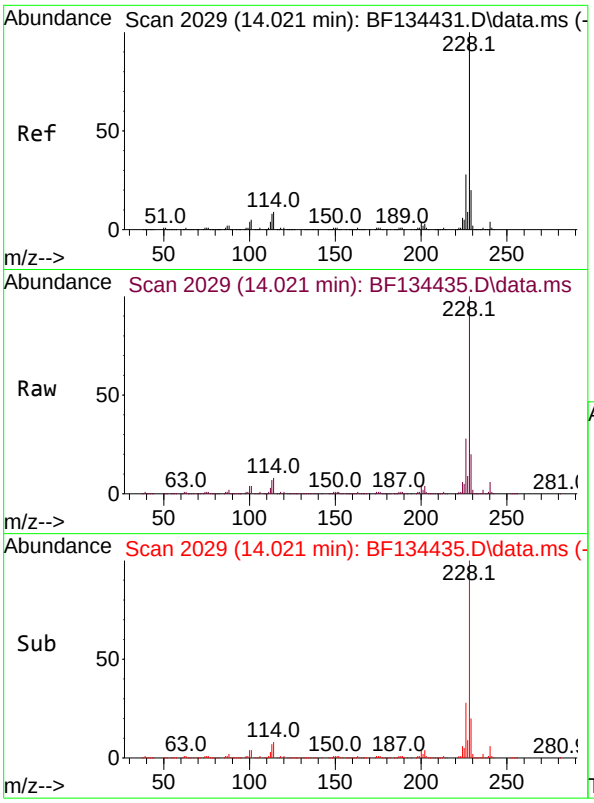


#80
Butylbenzylphthalate
Concen: 40.971 ng
RT: 13.439 min Scan# 1930
Delta R.T. 0.000 min
Lab File: BF134435.D
Acq: 24 Jul 2023 18:16

Tgt Ion:149 Resp: 196621

Ion	Ratio	Lower	Upper
149	100		
91	67.8	55.8	83.6
206	19.4	14.6	21.8

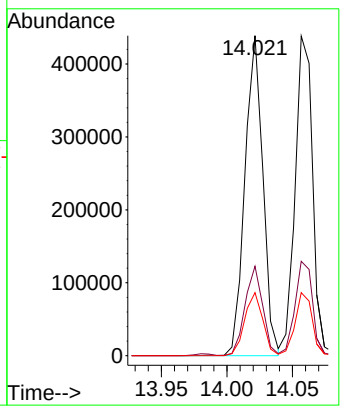




#81
Benzo(a)anthracene
Concen: 39.849 ng
RT: 14.021 min Scan# 2(
Delta R.T. 0.000 min
Lab File: BF134435.D
Acq: 24 Jul 2023 18:16

Tgt Ion:228 Resp: 418909

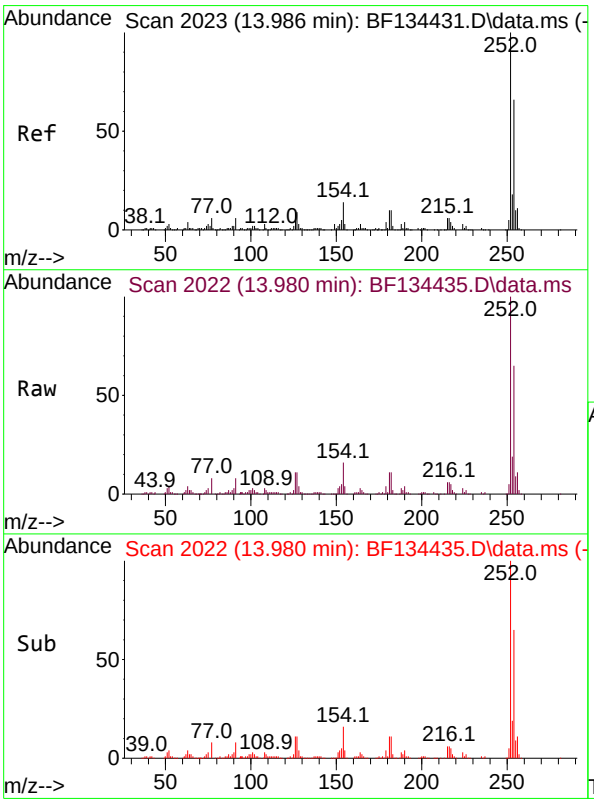
Ion	Ratio	Lower	Upper
228	100		
226	28.0	22.3	33.5
229	19.7	15.8	23.6



Instrument :
BNA_F
ClientSampleId :
ICVBF072423

Manual Integrations APPROVED

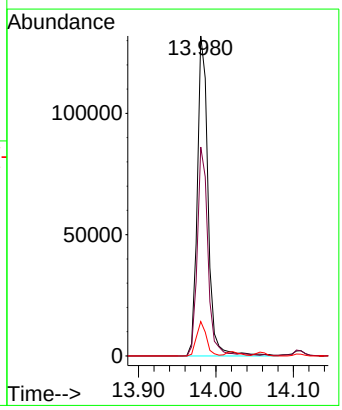
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

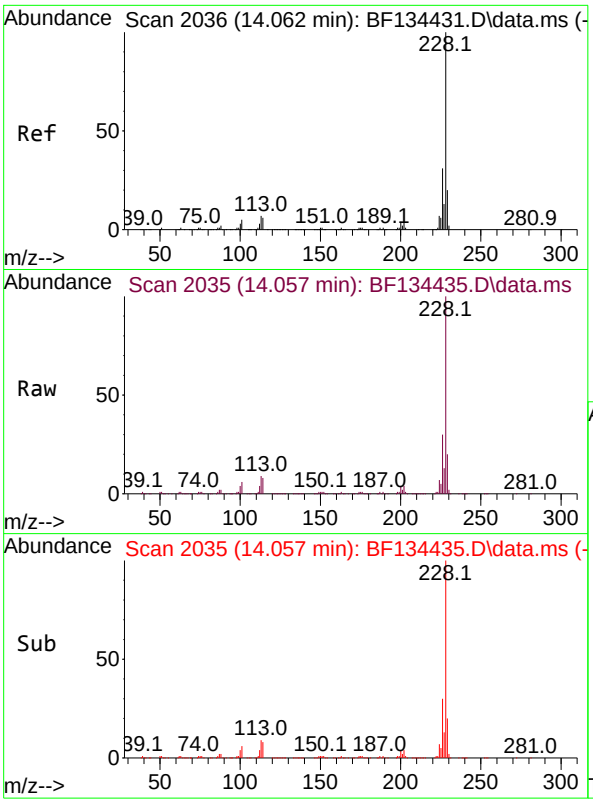


#82
3,3'-Dichlorobenzidine
Concen: 38.241 ng
RT: 13.980 min Scan# 2022
Delta R.T. -0.006 min
Lab File: BF134435.D
Acq: 24 Jul 2023 18:16

Tgt Ion:252 Resp: 127327

Ion	Ratio	Lower	Upper
252	100		
254	65.3	52.7	79.1
126	10.8	7.2	10.8

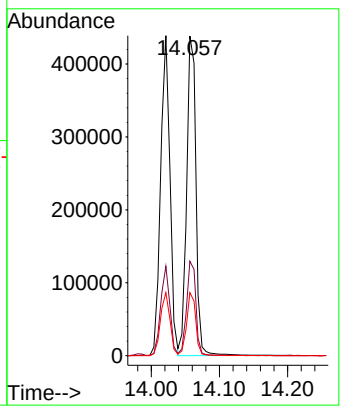




#83
Chrysene
Concen: 40.820 ng
RT: 14.057 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF134435.D
Acq: 24 Jul 2023 18:16

Tgt Ion:228 Resp: 41044

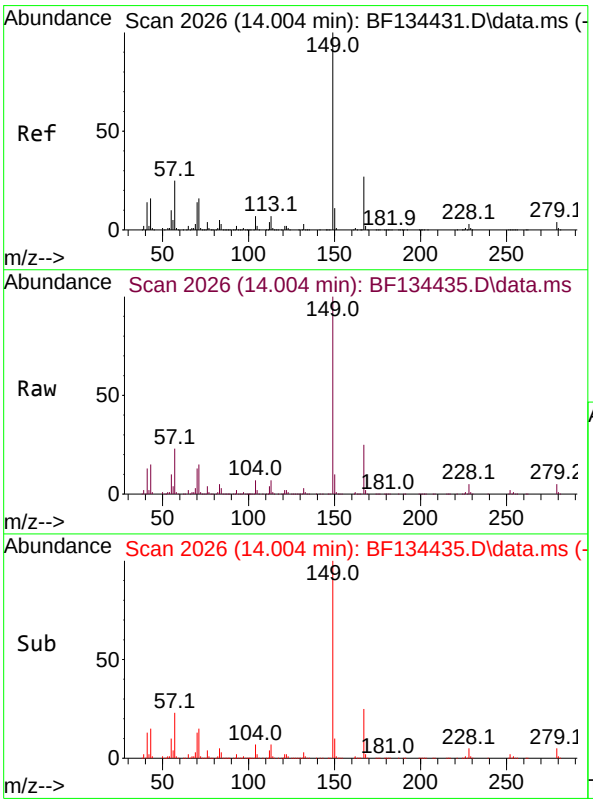
Ion	Ratio	Lower	Upper
228	100		
226	29.5	24.5	36.7
229	19.7	15.8	23.8



Instrument :
BNA_F
ClientSampleId :
ICVBF072423

Manual Integrations APPROVED

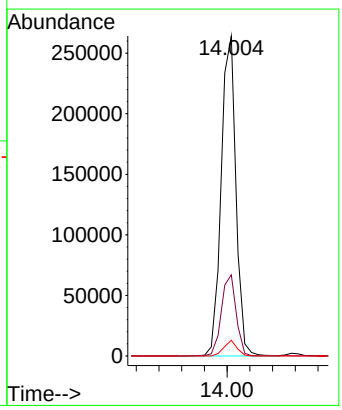
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

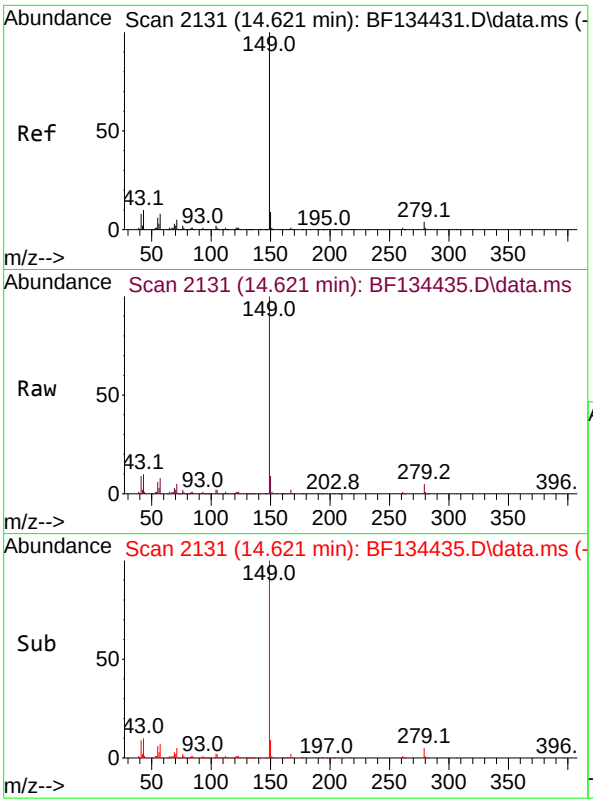


#84
Bis(2-ethylhexyl)phthalate
Concen: 40.980 ng
RT: 14.004 min Scan# 2026
Delta R.T. 0.000 min
Lab File: BF134435.D
Acq: 24 Jul 2023 18:16

Tgt Ion:149 Resp: 238928

Ion	Ratio	Lower	Upper
149	100		
167	25.4	21.6	32.4
279	4.9	3.5	5.3

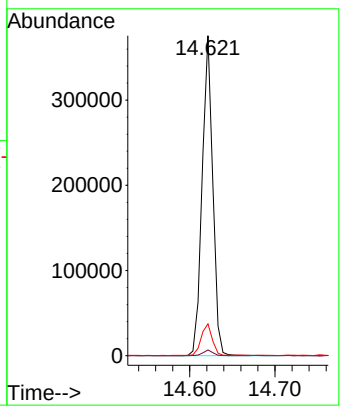




#85
Di-n-octyl phthalate
Concen: 40.155 ng
RT: 14.621 min Scan# 21
Delta R.T. 0.000 min
Lab File: BF134435.D
Acq: 24 Jul 2023 18:16

Tgt Ion:149 Resp: 32534

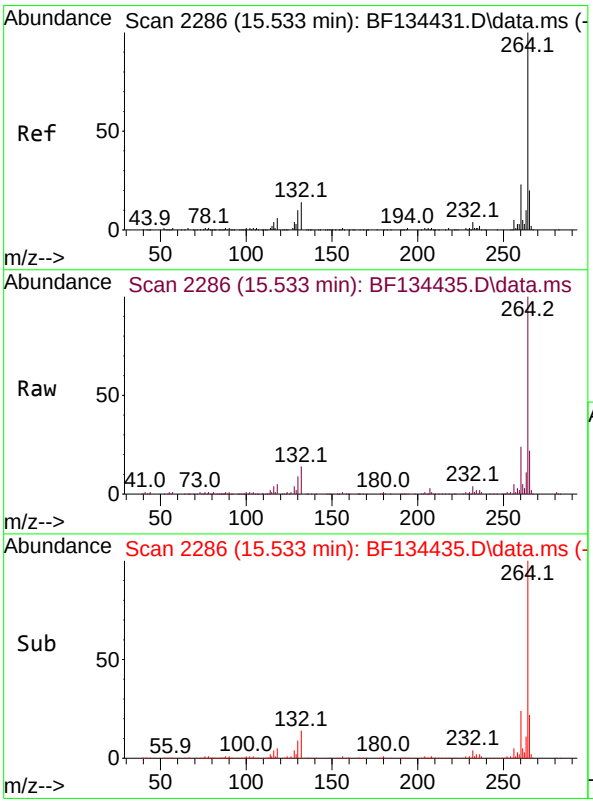
Ion	Ratio	Lower	Upper
149	100		
167	1.7	1.2	1.8
43	10.4	8.1	12.1



Instrument :
BNA_F
ClientSampleId :
ICVBF072423

Manual Integrations APPROVED

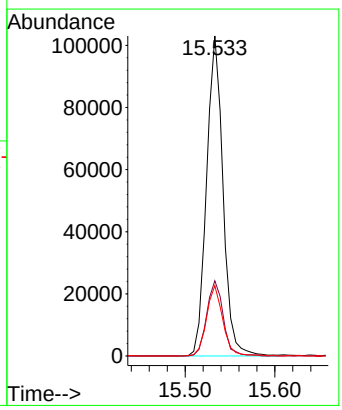
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

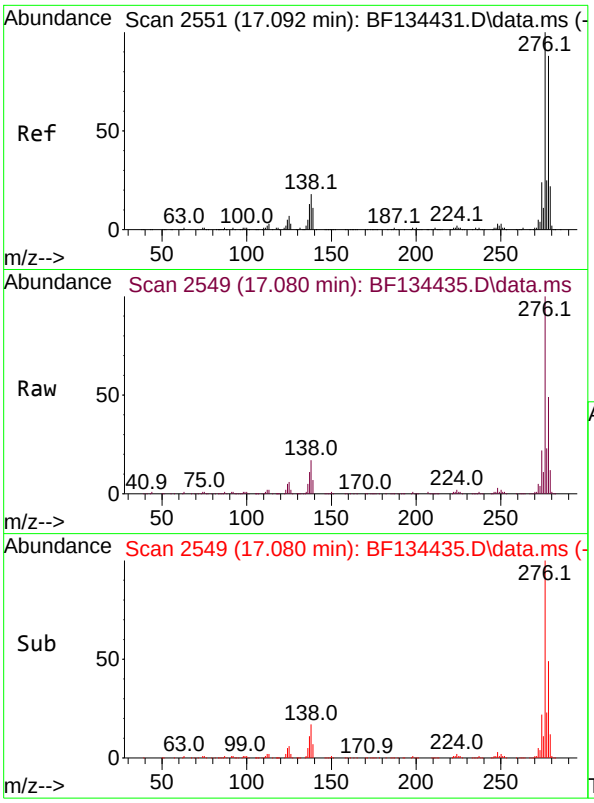


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.533 min Scan# 2286
Delta R.T. 0.000 min
Lab File: BF134435.D
Acq: 24 Jul 2023 18:16

Tgt Ion:264 Resp: 131249

Ion	Ratio	Lower	Upper
264	100		
260	23.5	18.4	27.6
265	21.9	15.8	23.8

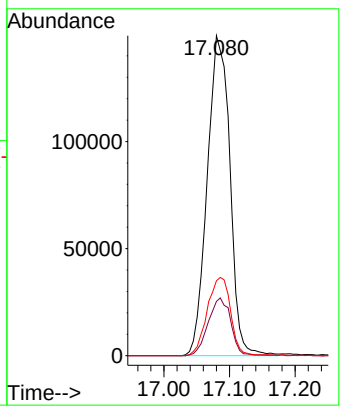




#87
Indeno(1,2,3-cd)pyrene
Concen: 41.890 ng
RT: 17.080 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF134435.D
Acq: 24 Jul 2023 18:16

Tgt Ion:276 Resp: 35919

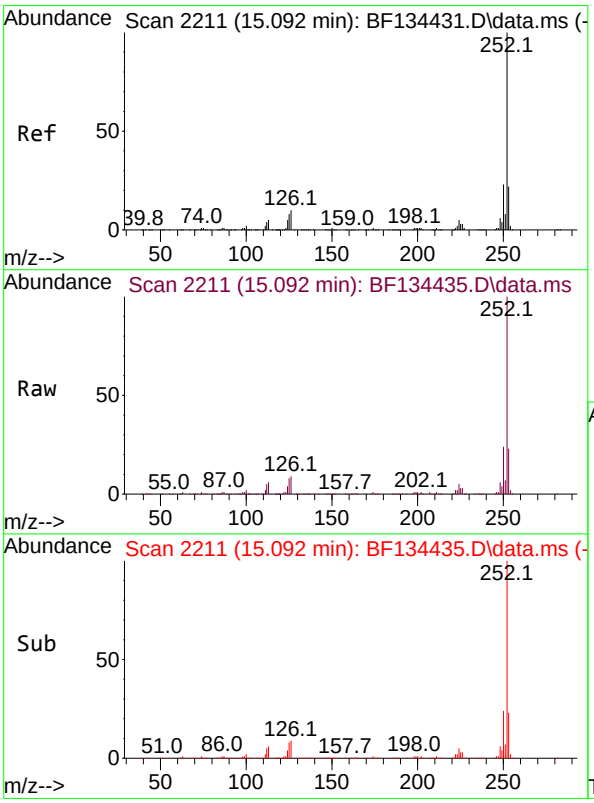
Ion	Ratio	Lower	Upper
276	100		
138	17.9	14.2	21.4
277	25.1	19.9	29.9



Instrument :
BNA_F
ClientSampleId :
ICVBF072423

Manual Integrations
APPROVED

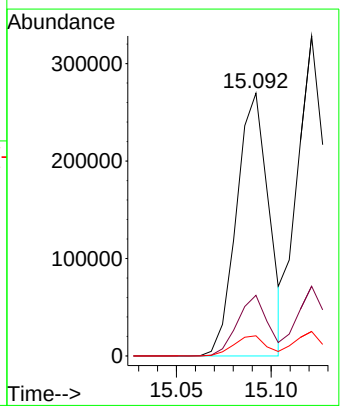
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

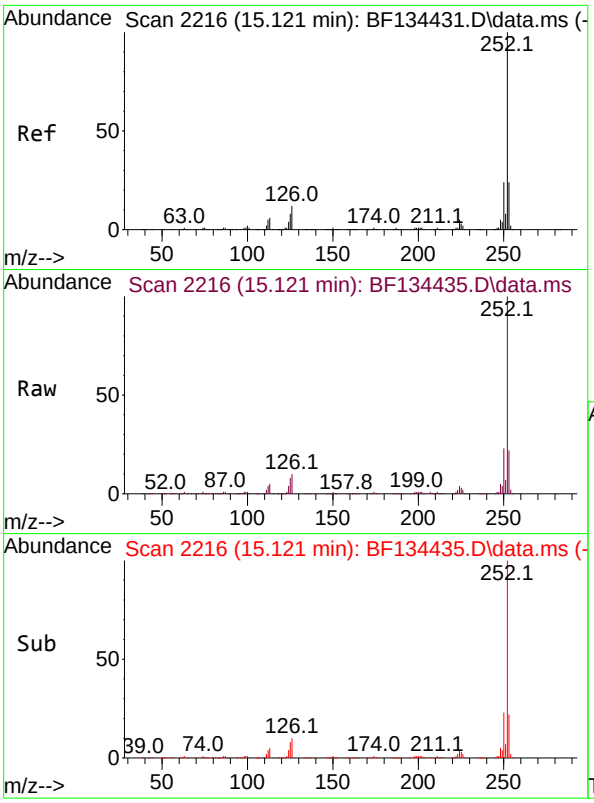


#88
Benzo(b)fluoranthene
Concen: 38.814 ng
RT: 15.092 min Scan# 2211
Delta R.T. 0.000 min
Lab File: BF134435.D
Acq: 24 Jul 2023 18:16

Tgt Ion:252 Resp: 318704

Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.3	25.9
125	7.7	6.0	9.0

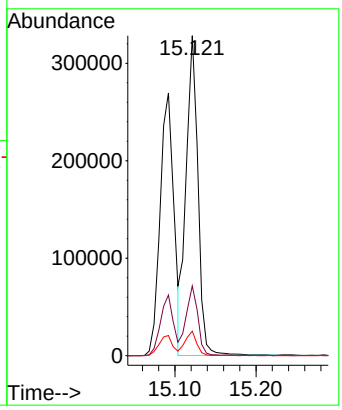




#89
Benzo(k)fluoranthene
Concen: 41.555 ng
RT: 15.121 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF134435.D
Acq: 24 Jul 2023 18:16

Tgt Ion:252 Resp: 33555

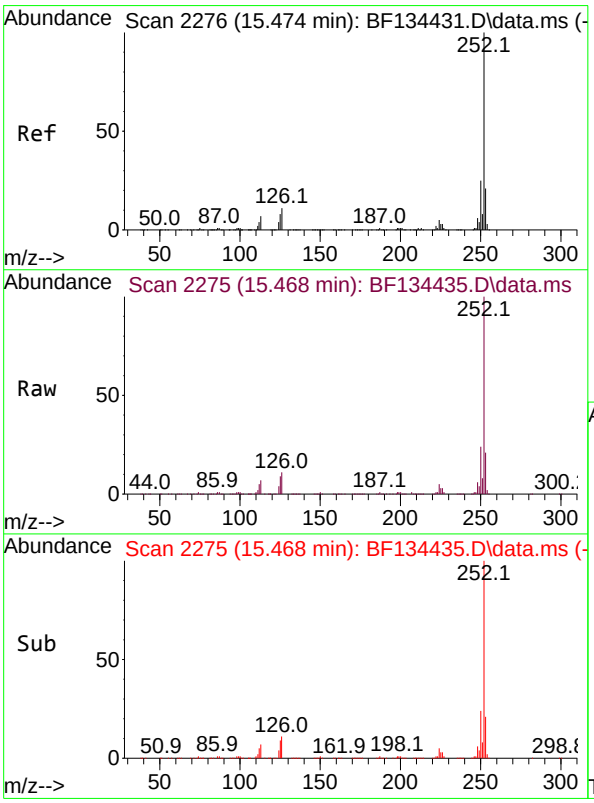
Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.9	26.9
125	7.6	6.3	9.5



Instrument :
BNA_F
ClientSampleId :
ICVBF072423

Manual Integrations
APPROVED

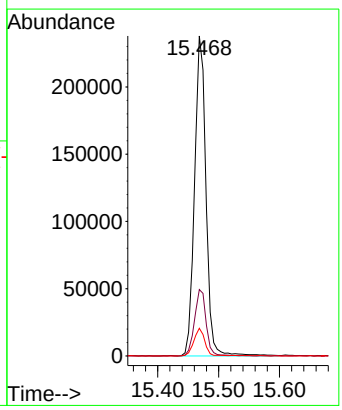
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023

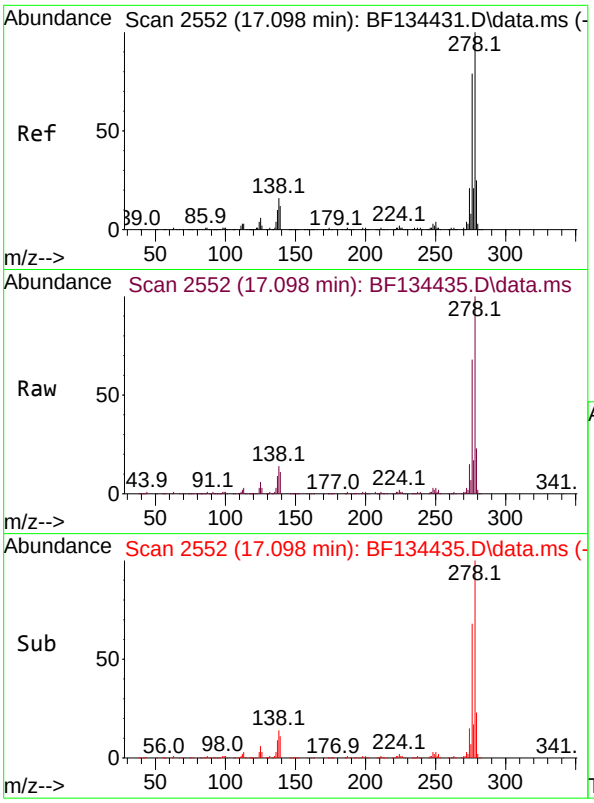


#90
Benzo(a)pyrene
Concen: 40.864 ng
RT: 15.468 min Scan# 2275
Delta R.T. -0.006 min
Lab File: BF134435.D
Acq: 24 Jul 2023 18:16

Tgt Ion:252 Resp: 310144

Ion	Ratio	Lower	Upper
252	100		
253	20.8	17.0	25.4
125	8.6	6.2	9.4

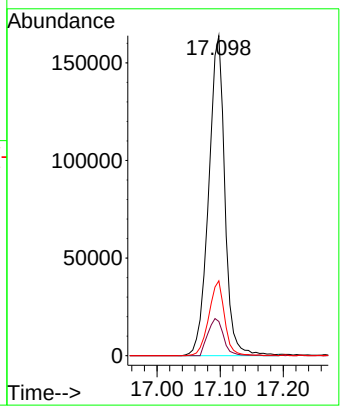




#91
Dibenzo(a,h)anthracene
Concen: 42.108 ng
RT: 17.098 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF134435.D
Acq: 24 Jul 2023 18:16

Tgt Ion:278 Resp: 29158

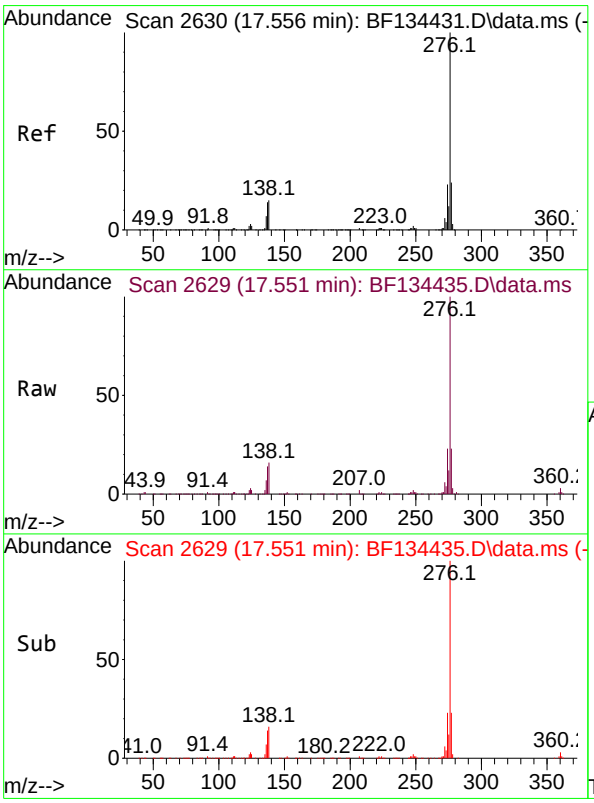
Ion	Ratio	Lower	Upper
278	100		
139	10.7	10.0	15.0
279	23.4	19.7	29.5



Instrument :
BNA_F
ClientSampleId :
ICVBF072423

Manual Integrations APPROVED

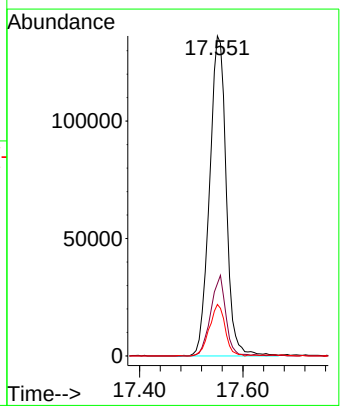
Reviewed By :Yogesh Patel 07/25/2023
Supervised By :mohammad ahmed 07/25/2023



#92
Benzo(g,h,i)perylene
Concen: 42.833 ng
RT: 17.551 min Scan# 2629
Delta R.T. -0.006 min
Lab File: BF134435.D
Acq: 24 Jul 2023 18:16

Tgt Ion:276 Resp: 304556

Ion	Ratio	Lower	Upper
276	100		
277	22.6	19.0	28.6
138	16.1	12.2	18.2



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF072423\
Data File : BF134435.D
Acq On : 24 Jul 2023 18:16
Operator : CG\JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF072423

Quant Time: Jul 25 01:47:04 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF072423.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 25 01:46:04 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	111	0.00
2		1,4-Dioxane	0.513	0.501	2.3	110	0.00
3		Pyridine	1.153	1.250	-8.4	114	0.00
4		n-Nitrosodimethylamine	0.681	0.731	-7.3	118	0.00
5	S	2-Fluorophenol	1.211	1.248	-3.1	110	0.00
6		Aniline	1.748	1.784	-2.1	111	0.00
7	S	Phenol-d6	1.483	1.492	-0.6	112	0.00
8		2-Chlorophenol	1.226	1.238	-1.0	110	0.00
9		Benzaldehyde	0.794	0.767	3.4	114	0.00
10	C	Phenol	1.543	1.548	-0.3	110	0.00
11		bis(2-Chloroethyl)ether	1.077	1.077	0.0	112	0.00
12		1,3-Dichlorobenzene	1.319	1.317	0.2	107	0.00
13	C	1,4-Dichlorobenzene	1.357	1.376	-1.4	111	0.00
14		1,2-Dichlorobenzene	1.275	1.278	-0.2	112	0.00
15		Benzyl Alcohol	1.145	1.149	-0.3	105	0.00
16		2,2'-oxybis(1-Chloropropane	1.586	1.622	-2.3	114	0.00
17		2-Methylphenol	1.094	1.070	2.2	106	0.00
18		Hexachloroethane	0.521	0.510	2.1	110	0.00
19	P	n-Nitroso-di-n-propylamine	0.923	0.893	3.3	107	0.00
20		3+4-Methylphenols	1.400	1.375	1.8	108	0.00
21	I	Naphthalene-d8	1.000	1.000	0.0	110	0.00
22		Acetophenone	0.497	0.501	-0.8	110	0.00
23	S	Nitrobenzene-d5	0.395	0.412	-4.3	112	0.00
24		Nitrobenzene	0.393	0.402	-2.3	113	0.00
25		Isophorone	0.659	0.661	-0.3	109	0.00
26	C	2-Nitrophenol	0.181	0.185	-2.2	109	0.00
27		2,4-Dimethylphenol	0.285	0.296	-3.9	113	0.00
28		bis(2-Chloroethoxy)methane	0.367	0.371	-1.1	111	0.00
29	C	2,4-Dichlorophenol	0.285	0.289	-1.4	109	0.00
30		1,2,4-Trichlorobenzene	0.308	0.308	0.0	108	0.00
31		Naphthalene	0.995	0.999	-0.4	109	0.00
32		Benzoic acid	0.191	0.199	-4.2	108	0.00
33		4-Chloroaniline	0.411	0.417	-1.5	109	0.00
34	C	Hexachlorobutadiene	0.206	0.207	-0.5	108	0.00
35		Caprolactam	0.087	0.089	-2.3	108	0.00
36	C	4-Chloro-3-methylphenol	0.329	0.332	-0.9	109	0.00
37		2-Methylnaphthalene	0.692	0.692	0.0	108	0.00
38		1-Methylnaphthalene	0.642	0.643	-0.2	109	0.00
39	I	Acenaphthene-d10	1.000	1.000	0.0	97	0.00
40		1,2,4,5-Tetrachlorobenzene	0.634	0.649	-2.4	108	0.00
41	P	Hexachlorocyclopentadiene	0.152	0.170	-11.8	109	0.00
42	S	2,4,6-Tribromophenol	0.284	0.292	-2.8	97	0.00
43	C	2,4,6-Trichlorophenol	0.407	0.412	-1.2	96	0.00
44		2,4,5-Trichlorophenol	0.474	0.476	-0.4	94	0.00
45	S	2-Fluorobiphenyl	1.523	1.538	-1.0	96	0.00
46		1,1'-Biphenyl	1.648	1.664	-1.0	96	0.00
47		2-Chloronaphthalene	1.215	1.226	-0.9	96	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF072423\
Data File : BF134435.D
Acq On : 24 Jul 2023 18:16
Operator : CG\JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF072423

Quant Time: Jul 25 01:47:04 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF072423.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 25 01:46:04 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
48		2-Nitroaniline	0.438	0.460	-5.0	97	0.00
49		Acenaphthylene	2.053	2.064	-0.5	95	0.00
50		Dimethylphthalate	1.483	1.485	-0.1	94	0.00
51		2,6-Dinitrotoluene	0.325	0.326	-0.3	93	0.00
52	C	Acenaphthene	1.213	1.245	-2.6	96	0.00
53		3-Nitroaniline	0.373	0.388	-4.0	97	0.00
54	P	2,4-Dinitrophenol	0.143	0.143	0.0	93	0.00
55		Dibenzofuran	1.867	1.879	-0.6	95	0.00
56	P	4-Nitrophenol	0.199	0.195	2.0	92	0.00
57		2,4-Dinitrotoluene	0.437	0.455	-4.1	95	0.00
58		Fluorene	1.506	1.520	-0.9	95	0.00
59		2,3,4,6-Tetrachlorophenol	0.364	0.369	-1.4	95	0.00
60		Diethylphthalate	1.535	1.537	-0.1	95	0.00
61		4-Chlorophenyl-phenylether	0.719	0.728	-1.3	95	0.00
62		4-Nitroaniline	0.383	0.396	-3.4	95	0.00
63		Azobenzene	1.413	1.431	-1.3	96	0.00
64	I	Phenanthrene-d10	1.000	1.000	0.0	96	0.00
65		4,6-Dinitro-2-methylphenol	0.115	0.117	-1.7	93	0.00
66	c	n-Nitrosodiphenylamine	0.636	0.640	-0.6	94	0.00
67		4-Bromophenyl-phenylether	0.219	0.219	0.0	94	0.00
68		Hexachlorobenzene	0.247	0.249	-0.8	96	0.00
69		Atrazine	0.177	0.185	-4.5	96	0.00
70	C	Pentachlorophenol	0.104	0.105	-1.0	94	0.00
71		Phenanthrene	1.045	1.050	-0.5	94	0.00
72		Anthracene	1.079	1.098	-1.8	95	0.00
73		Carbazole	1.016	1.039	-2.3	97	0.00
74		Di-n-butylphthalate	1.166	1.164	0.2	93	0.00
75	C	Fluoranthene	1.218	1.247	-2.4	97	0.00
76	I	Chrysene-d12	1.000	1.000	0.0	95	0.00
77		Benzidine	0.427	0.412	3.5	89	0.00
78		Pyrene	1.590	1.618	-1.8	96	0.00
79	S	Terphenyl-d14	1.146	1.157	-1.0	96	0.00
80		Butylbenzylphthalate	0.637	0.652	-2.4	95	0.00
81		Benzo(a)anthracene	1.395	1.390	0.4	96	0.00
82		3,3'-Dichlorobenzidine	0.442	0.423	4.3	91	0.00
83		Chrysene	1.335	1.362	-2.0	96	0.00
84		Bis(2-ethylhexyl)phthalate	0.774	0.793	-2.5	96	0.00
85	c	Di-n-octyl phthalate	1.075	1.080	-0.5	94	0.00
86	I	Perylene-d12	1.000	1.000	0.0	97	0.00
87		Indeno(1,2,3-cd)pyrene	1.307	1.368	-4.7	96	-0.01
88		Benzo(b)fluoranthene	1.251	1.214	3.0	96	0.00
89		Benzo(k)fluoranthene	1.230	1.278	-3.9	96	0.00
90	C	Benzo(a)pyrene	1.157	1.182	-2.2	97	0.00
91		Dibenzo(a,h)anthracene	1.055	1.111	-5.3	97	0.00
92		Benzo(g,h,i)perylene	1.083	1.160	-7.1	100	0.00

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF072423\
Data File : BF134435.D
Acq On : 24 Jul 2023 18:16
Operator : CG\JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF072423

Quant Time: Jul 25 01:47:04 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF072423.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 25 01:46:04 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev Area%	Dev(min)

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

Evaluate Continuing Calibration Report

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF072423\
Data File : BF134435.D
Acq On : 24 Jul 2023 18:16
Operator : CG\JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF072423

Quant Time: Jul 25 01:47:04 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF072423.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 25 01:46:04 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	20.000	20.000	0.0	111	0.00
2		1,4-Dioxane	40.000	39.007	2.5	110	0.00
3		Pyridine	40.000	43.386	-8.5	114	0.00
4		n-Nitrosodimethylamine	40.000	42.927	-7.3	118	0.00
5	S	2-Fluorophenol	80.000	82.473	-3.1	110	0.00
6		Aniline	40.000	40.828	-2.1	111	0.00
7	S	Phenol-d6	80.000	80.455	-0.6	112	0.00
8		2-Chlorophenol	40.000	40.367	-0.9	110	0.00
9		Benzaldehyde	40.000	38.639	3.4	114	0.00
10	C	Phenol	40.000	40.129	-0.3	110	0.00
11		bis(2-Chloroethyl)ether	40.000	40.002	-0.0	112	0.00
12		1,3-Dichlorobenzene	40.000	39.945	0.1	107	0.00
13	C	1,4-Dichlorobenzene	40.000	40.566	-1.4	111	0.00
14		1,2-Dichlorobenzene	40.000	40.116	-0.3	112	0.00
15		Benzyl Alcohol	40.000	40.137	-0.3	105	0.00
16		2,2'-oxybis(1-Chloropropane	40.000	40.906	-2.3	114	0.00
17		2-Methylphenol	40.000	39.121	2.2	106	0.00
18		Hexachloroethane	40.000	39.159	2.1	110	0.00
19	P	n-Nitroso-di-n-propylamine	40.000	38.681	3.3	107	0.00
20		3+4-Methylphenols	40.000	39.291	1.8	108	0.00
21	I	Naphthalene-d8	20.000	20.000	0.0	110	0.00
22		Acetophenone	40.000	40.320	-0.8	110	0.00
23	S	Nitrobenzene-d5	80.000	83.445	-4.3	112	0.00
24		Nitrobenzene	40.000	40.867	-2.2	113	0.00
25		Isophorone	40.000	40.103	-0.3	109	0.00
26	C	2-Nitrophenol	40.000	40.952	-2.4	109	0.00
27		2,4-Dimethylphenol	40.000	41.429	-3.6	113	0.00
28		bis(2-Chloroethoxy)methane	40.000	40.472	-1.2	111	0.00
29	C	2,4-Dichlorophenol	40.000	40.572	-1.4	109	0.00
30		1,2,4-Trichlorobenzene	40.000	40.054	-0.1	108	0.00
31		Naphthalene	40.000	40.147	-0.4	109	0.00
32		Benzoic acid	40.000	41.715	-4.3	108	0.00
33		4-Chloroaniline	40.000	40.558	-1.4	109	0.00
34	C	Hexachlorobutadiene	40.000	40.192	-0.5	108	0.00
35		Caprolactam	40.000	40.785	-2.0	108	0.00
36	C	4-Chloro-3-methylphenol	40.000	40.350	-0.9	109	0.00
37		2-Methylnaphthalene	40.000	40.005	-0.0	108	0.00
38		1-Methylnaphthalene	40.000	40.115	-0.3	109	0.00
39	I	Acenaphthene-d10	20.000	20.000	0.0	97	0.00
40		1,2,4,5-Tetrachlorobenzene	40.000	40.968	-2.4	108	0.00
41	P	Hexachlorocyclopentadiene	40.000	41.716	-4.3	109	0.00
42	S	2,4,6-Tribromophenol	80.000	82.241	-2.8	97	0.00
43	C	2,4,6-Trichlorophenol	40.000	40.531	-1.3	96	0.00
44		2,4,5-Trichlorophenol	40.000	40.214	-0.5	94	0.00
45	S	2-Fluorobiphenyl	80.000	80.759	-0.9	96	0.00
46		1,1'-Biphenyl	40.000	40.371	-0.9	96	0.00
47		2-Chloronaphthalene	40.000	40.366	-0.9	96	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF072423\
Data File : BF134435.D
Acq On : 24 Jul 2023 18:16
Operator : CG\JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF072423

Quant Time: Jul 25 01:47:04 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF072423.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 25 01:46:04 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
48		2-Nitroaniline	40.000	42.063	-5.2	97	0.00
49		Acenaphthylene	40.000	40.216	-0.5	95	0.00
50		Dimethylphthalate	40.000	40.055	-0.1	94	0.00
51		2,6-Dinitrotoluene	40.000	40.030	-0.1	93	0.00
52	C	Acenaphthene	40.000	41.070	-2.7	96	0.00
53		3-Nitroaniline	40.000	41.598	-4.0	97	0.00
54	P	2,4-Dinitrophenol	40.000	37.380	6.5	93	0.00
55		Dibenzofuran	40.000	40.272	-0.7	95	0.00
56	P	4-Nitrophenol	40.000	39.250	1.9	92	0.00
57		2,4-Dinitrotoluene	40.000	41.664	-4.2	95	0.00
58		Fluorene	40.000	40.390	-1.0	95	0.00
59		2,3,4,6-Tetrachlorophenol	40.000	40.536	-1.3	95	0.00
60		Diethylphthalate	40.000	40.064	-0.2	95	0.00
61		4-Chlorophenyl-phenylether	40.000	40.476	-1.2	95	0.00
62		4-Nitroaniline	40.000	41.397	-3.5	95	0.00
63		Azobenzene	40.000	40.522	-1.3	96	0.00
64	I	Phenanthrene-d10	20.000	20.000	0.0	96	0.00
65		4,6-Dinitro-2-methylphenol	40.000	40.807	-2.0	93	0.00
66	c	n-Nitrosodiphenylamine	40.000	40.214	-0.5	94	0.00
67		4-Bromophenyl-phenylether	40.000	39.890	0.3	94	0.00
68		Hexachlorobenzene	40.000	40.380	-1.0	96	0.00
69		Atrazine	40.000	41.716	-4.3	96	0.00
70	C	Pentachlorophenol	40.000	40.604	-1.5	94	0.00
71		Phenanthrene	40.000	40.194	-0.5	94	0.00
72		Anthracene	40.000	40.715	-1.8	95	0.00
73		Carbazole	40.000	40.918	-2.3	97	0.00
74		Di-n-butylphthalate	40.000	39.947	0.1	93	0.00
75	C	Fluoranthene	40.000	40.955	-2.4	97	0.00
76	I	Chrysene-d12	20.000	20.000	0.0	95	0.00
77		Benzidine	40.000	38.592	3.5	89	0.00
78		Pyrene	40.000	40.700	-1.8	96	0.00
79	S	Terphenyl-d14	80.000	80.774	-1.0	96	0.00
80		Butylbenzylphthalate	40.000	40.971	-2.4	95	0.00
81		Benzo(a)anthracene	40.000	39.849	0.4	96	0.00
82		3,3'-Dichlorobenzidine	40.000	38.241	4.4	91	0.00
83		Chrysene	40.000	40.820	-2.1	96	0.00
84		Bis(2-ethylhexyl)phthalate	40.000	40.980	-2.4	96	0.00
85	c	Di-n-octyl phthalate	40.000	40.155	-0.4	94	0.00
86	I	Perylene-d12	20.000	20.000	0.0	97	0.00
87		Indeno(1,2,3-cd)pyrene	40.000	41.890	-4.7	96	-0.01
88		Benzo(b)fluoranthene	40.000	38.814	3.0	96	0.00
89		Benzo(k)fluoranthene	40.000	41.555	-3.9	96	0.00
90	C	Benzo(a)pyrene	40.000	40.864	-2.2	97	0.00
91		Dibenzo(a,h)anthracene	40.000	42.108	-5.3	97	0.00
92		Benzo(g,h,i)perylene	40.000	42.833	-7.1	100	0.00

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF072423\
Data File : BF134435.D
Acq On : 24 Jul 2023 18:16
Operator : CG\JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF072423

Quant Time: Jul 25 01:47:04 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF072423.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 25 01:46:04 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)

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

Response Factor Report BNA_F

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF080123.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Aug 02 02:20:34 2023
Response Via : Initial Calibration

Calibration Files
2.5 =BF134536.D 5 =BF134537.D 10 =BF134538.D 20 =BF134539.D 40 =BF134540.D 50 =BF134541.D 60 =BF134542.D 80 =BF1345
43.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------	ISTD	----------							
2)		1,4-Dioxane		0.641	0.648	0.649	0.606	0.573	0.576	0.546	0.605	6.88
3)		Pyridine		1.765	1.756	1.759	1.627	1.547	1.536	1.492	1.640	7.24
4)		n-Nitrosodimet...		0.798	0.821	0.837	0.792	0.759	0.761	0.719	0.784	5.20
5)	S	2-Fluorophenol		1.494	1.480	1.472	1.302	1.202	1.172	1.088	1.316	12.75
6)		Aniline		2.431	2.372	2.389	2.189	2.069	2.071	1.921	2.206	8.88
7)	S	Phenol-d6		1.904	1.907	1.855	1.660	1.535	1.531	1.382	1.682	12.49
8)		2-Chlorophenol		1.482	1.455	1.482	1.331	1.227	1.215	1.098	1.327	11.49
9)		Benzaldehyde		1.196	1.107	0.999	0.805	0.726	0.667		0.917	23.50
10)	C	Phenol		1.866	1.816	1.836	1.679	1.520	1.528	1.356	1.657	11.75
11)		bis(2-Chloroet...		1.482	1.460	1.439	1.305	1.220	1.211	1.100	1.317	11.22
12)		1,3-Dichlorobe...		1.572	1.529	1.504	1.362	1.249	1.252	1.144	1.373	12.03
13)	C	1,4-Dichlorobe...		1.581	1.544	1.513	1.372	1.256	1.240	1.128	1.376	12.70
14)		1,2-Dichlorobe...		1.509	1.471	1.448	1.273	1.155	1.120	1.002	1.282	15.45
15)		Benzyl Alcohol		1.307	1.317	1.316	1.169	1.065	1.032	0.916	1.160	13.89
16)		2,2'-oxybis(1-...		2.306	2.246	2.249	2.054	1.917	1.908	1.760	2.063	10.18
17)		2-Methylphenol		1.271	1.274	1.267	1.169	1.101	1.099	1.028	1.173	8.55
18)		Hexachloroethane		0.519	0.514	0.534	0.480	0.456	0.459	0.418	0.483	8.58
19)	P	n-Nitroso-di-n...	1.139	1.113	1.108	1.075	0.978	0.908	0.897	0.838	1.007	11.54
20)		3+4-Methylphenols		1.661	1.662	1.622	1.425	1.258	1.212	1.061	1.414	17.20
21)	I	Naphthalene-d8	----------	ISTD	----------							
22)		Acetophenone		0.542	0.533	0.514	0.455	0.410	0.410	0.369	0.462	14.82
23)	S	Nitrobenzene-d5		0.258	0.304	0.343	0.341	0.331	0.339	0.324	0.320	9.53
24)		Nitrobenzene		0.299	0.346	0.374	0.364	0.346	0.359	0.331	0.346	7.26
25)		Isophorone		0.744	0.732	0.736	0.690	0.655	0.677	0.652	0.698	5.58
26)	C	2-Nitrophenol		0.065	0.086	0.116	0.138	0.143	0.155	0.155	0.122	28.81
27)		2,4-Dimethylph...		0.330	0.335	0.336	0.307	0.294	0.292	0.285	0.311	7.10
28)		bis(2-Chloroet...		0.449	0.449	0.455	0.411	0.390	0.397	0.371	0.418	8.11
29)	C	2,4-Dichloroph...		0.285	0.292	0.302	0.289	0.273	0.277	0.261	0.283	4.84
30)		1,2,4-Trichlor...		0.326	0.322	0.324	0.301	0.284	0.287	0.265	0.301	7.86
31)		Naphthalene		1.121	1.122	1.102	1.010	0.921	0.919	0.841	1.005	11.32
32)		Benzoic acid			0.097	0.145	0.177	0.199	0.219	0.221	0.176	27.31
33)		4-Chloroaniline		0.481	0.475	0.479	0.443	0.415	0.432	0.409	0.448	6.86
34)	C	Hexachlorobuta...		0.191	0.186	0.188	0.174	0.162	0.164	0.152	0.174	8.64
35)		Caprolactam		0.083	0.090	0.094	0.095	0.090	0.095	0.090	0.091	4.47
36)	C	4-Chloro-3-met...		0.307	0.311	0.323	0.302	0.286	0.293	0.275	0.299	5.41
37)		2-Methylnaphth...		0.760	0.749	0.743	0.657	0.613	0.604	0.538	0.666	12.96
38)		1-Methylnaphth...		0.703	0.683	0.684	0.618	0.564	0.571	0.514	0.620	11.74

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF080123.M

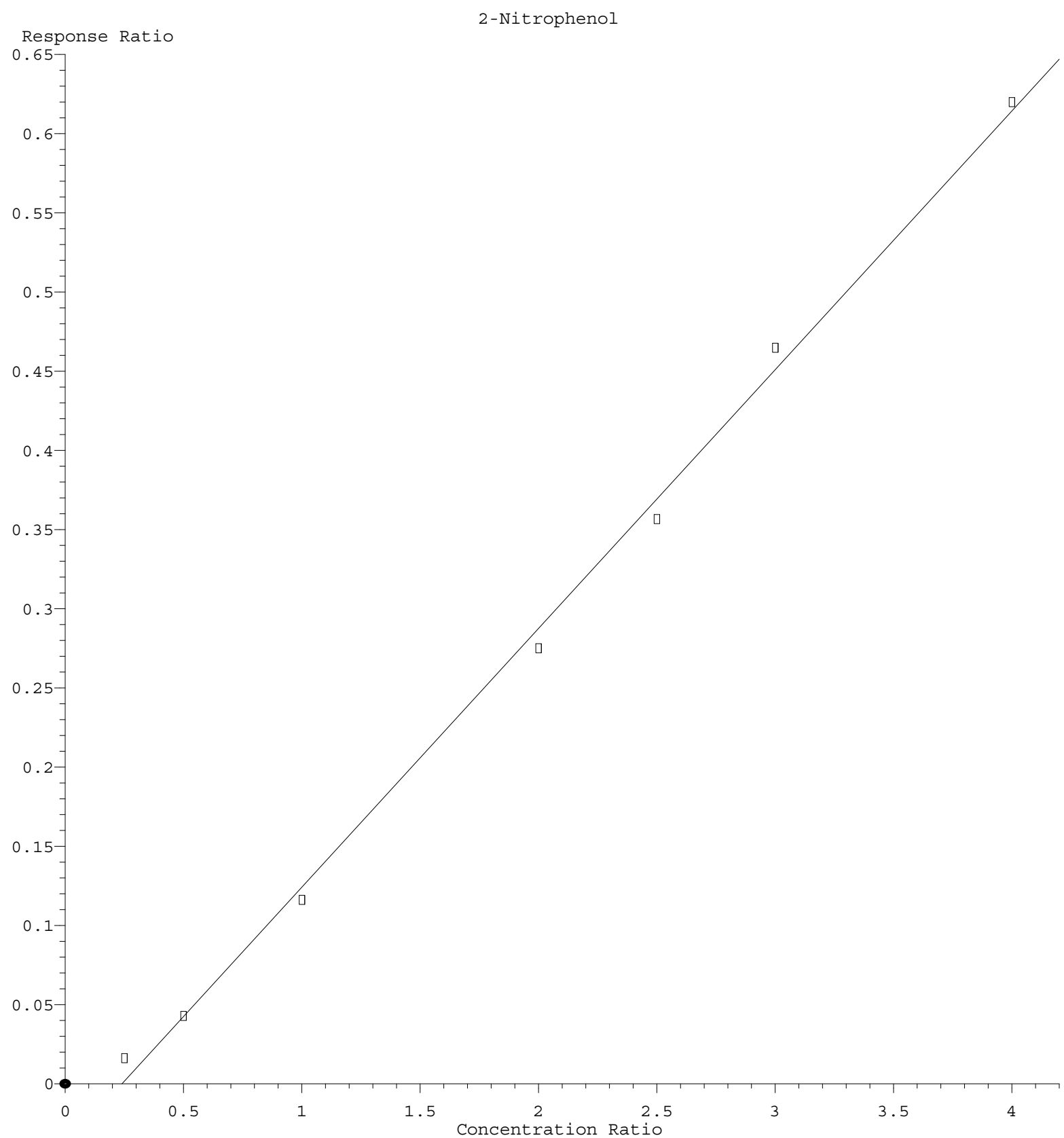
39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.644	0.652	0.630	0.585	0.526	0.542	0.492	0.582	10.82
41)	P	Hexachlorocycl...	0.247	0.271	0.296	0.306	0.288	0.289	0.283	0.283	6.79
42)	S	2,4,6-Tribromo...	0.180	0.209	0.222	0.216	0.198	0.206	0.197	0.204	6.76
43)	C	2,4,6-Trichlor...	0.367	0.386	0.409	0.391	0.370	0.385	0.357	0.381	4.59
44)		2,4,5-Trichlor...	0.430	0.457	0.464	0.451	0.410	0.428	0.405	0.435	5.28
45)	S	2-Fluorobiphenyl		1.533	1.418	1.220	1.048	1.061	0.937	1.203	19.34
46)		1,1'-Biphenyl	1.803	1.771	1.705	1.564	1.391	1.395	1.257	1.555	13.68
47)		2-Chloronaphth...	1.293	1.303	1.266	1.173	1.060	1.076	0.986	1.165	10.89
48)		2-Nitroaniline	0.172	0.245	0.327	0.362	0.354	0.380	0.371	0.316	24.66
49)		Acenaphthylene	2.038	2.049	2.008	1.845	1.671	1.689	1.522	1.832	11.43
50)		Dimethylphthalate	1.472	1.477	1.458	1.372	1.252	1.301	1.211	1.363	8.12
51)		2,6-Dinitrotol...	0.144	0.205	0.262	0.281	0.275	0.289	0.282	0.248	21.79
52)	C	Acenaphthene	1.304	1.321	1.294	1.192	1.082	1.106	1.011	1.187	10.40
53)		3-Nitroaniline	0.193	0.266	0.317	0.342	0.323	0.347	0.339	0.304	18.36
54)	P	2,4-Dinitrophenol		0.038	0.056	0.077	0.090	0.105	0.109	0.079	35.42
55)		Dibenzofuran	1.906	1.888	1.851	1.737	1.527	1.532	1.388	1.690	12.25
56)	P	4-Nitrophenol		0.195	0.244	0.259	0.257	0.273	0.263	0.248	11.17
57)		2,4-Dinitrotol...	0.148	0.222	0.298	0.341	0.339	0.361	0.334	0.292	26.82
58)		Fluorene	1.479	1.477	1.390	1.205	1.054	1.066	0.947	1.231	17.77
59)		2,3,4,6-Tetrac...	0.323	0.354	0.366	0.359	0.341	0.342	0.324	0.344	4.79
60)		Diethylphthalate	1.389	1.411	1.396	1.321	1.186	1.221	1.122	1.292	8.96
61)		4-Chlorophenyl...	0.735	0.716	0.678	0.592	0.517	0.531	0.465	0.605	17.53
62)		4-Nitroaniline	0.197	0.259	0.307	0.333	0.322	0.340	0.327	0.298	17.38
63)		Azobenzene	1.515	1.538	1.502	1.405	1.274	1.302	1.181	1.388	9.99
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.034	0.054	0.071	0.078	0.088	0.089	0.069	31.15
66)	c	n-Nitrosodiphe...	0.693	0.707	0.695	0.641	0.582	0.595	0.543	0.637	10.14
67)		4-Bromophenyl-...	0.233	0.229	0.239	0.220	0.205	0.209	0.197	0.219	7.15
68)		Hexachlorobenzene	0.240	0.249	0.251	0.235	0.215	0.221	0.207	0.231	7.39
69)		Atrazine	0.185	0.194	0.191	0.171	0.160	0.153	0.147	0.172	11.01
70)	C	Pentachlorophenol	0.112	0.133	0.155	0.156	0.147	0.154	0.146	0.143	11.08
71)		Phenanthrene	1.205	1.194	1.177	1.072	0.953	0.960	0.876	1.062	12.66
72)		Anthracene	1.225	1.217	1.209	1.094	0.978	0.987	0.887	1.085	12.64
73)		Carbazole	1.071	1.070	1.067	0.978	0.887	0.893	0.815	0.969	10.87
74)		Di-n-butylphth...	1.053	1.103	1.155	1.066	0.955	0.980	0.894	1.029	8.84
75)	C	Fluoranthene	1.238	1.235	1.243	1.154	1.031	1.032	0.922	1.122	11.41
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine	0.524	0.492	0.412	0.482	0.402	0.358	0.370	0.434	14.94
78)		Pyrene	1.617	1.671	1.726	1.747	1.733	1.824	1.797	1.731	4.08
79)	S	Terphenyl-d14	1.167	1.157	1.157	1.136	1.100	1.140	1.084	1.135	2.74
80)		Butylbenzylpht...	0.431	0.494	0.571	0.629	0.640	0.677	0.655	0.585	15.65
81)		Benzo(a)anthra...	1.457	1.472	1.482	1.451	1.371	1.425	1.352	1.430	3.52
82)		3,3'-Dichlorob...	0.417	0.438	0.438	0.417	0.400	0.409	0.383	0.415	4.77
83)		Chrysene	1.427	1.418	1.437	1.399	1.351	1.405	1.316	1.393	3.16
84)		Bis(2-ethylhex...	0.631	0.693	0.711	0.727	0.687	0.720	0.652	0.689	5.17
85)	c	Di-n-octyl pht...	0.877	0.956	1.042	1.103	1.062	1.196	1.095	1.047	9.94

Response Factor Report BNA_F

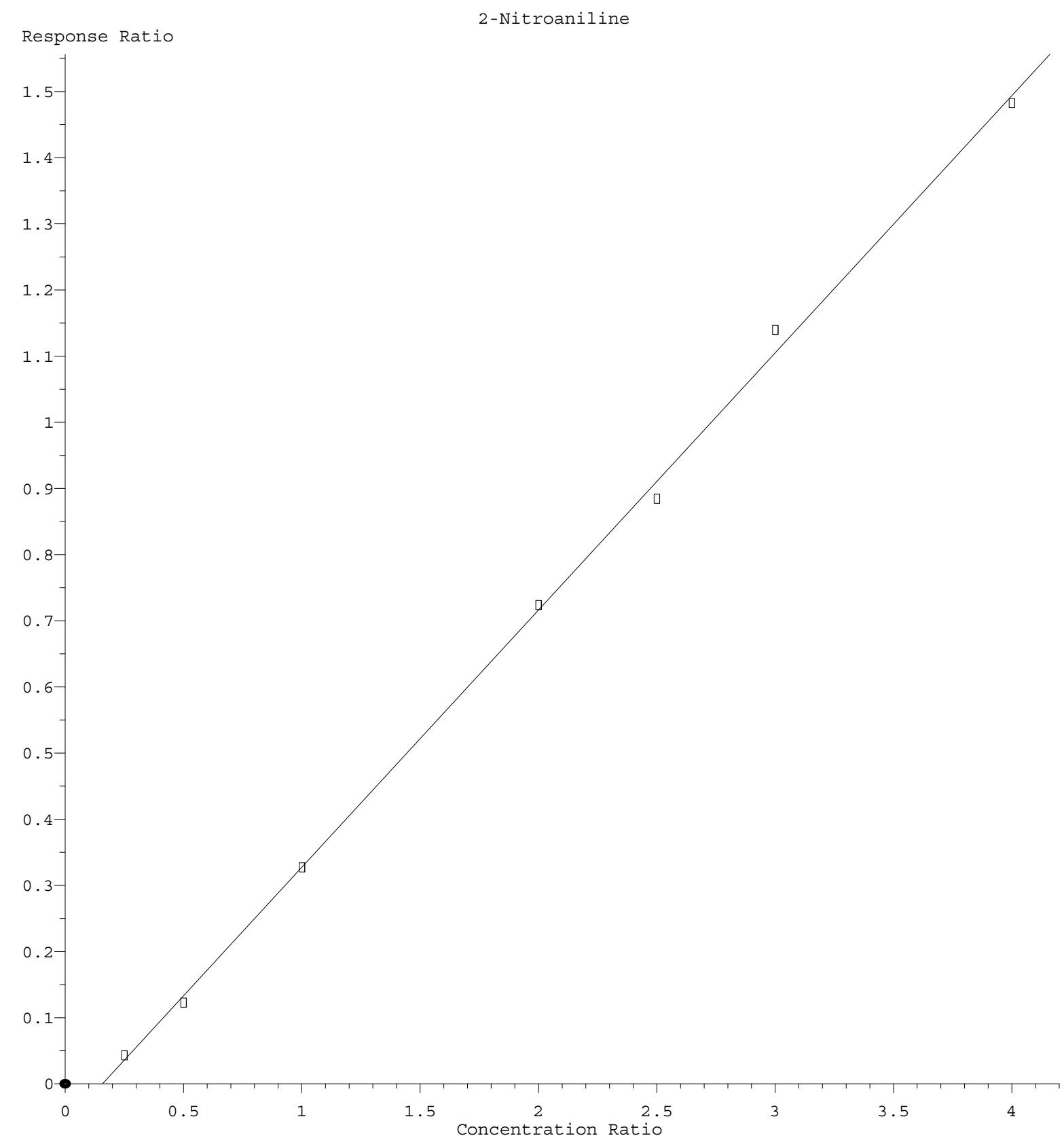
Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF080123.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.019	1.028	1.101	1.261	1.234	1.316	1.274	1.176	10.52
88)		Benzo(b)fluora...	1.270	1.271	1.358	1.210	1.129	1.183	1.117	1.220	7.07
89)		Benzo(k)fluora...	1.224	1.326	1.296	1.287	1.165	1.146	1.063	1.215	7.84
90)	C	Benzo(a)pyrene	1.124	1.179	1.178	1.174	1.099	1.133	1.075	1.137	3.65
91)		Dibenzo(a,h)an...	0.819	0.841	0.889	1.017	1.001	1.055	1.033	0.951	10.31
92)		Benzo(g,h,i)pe...	0.801	0.826	0.897	1.042	1.042	1.091	1.088	0.970	12.88

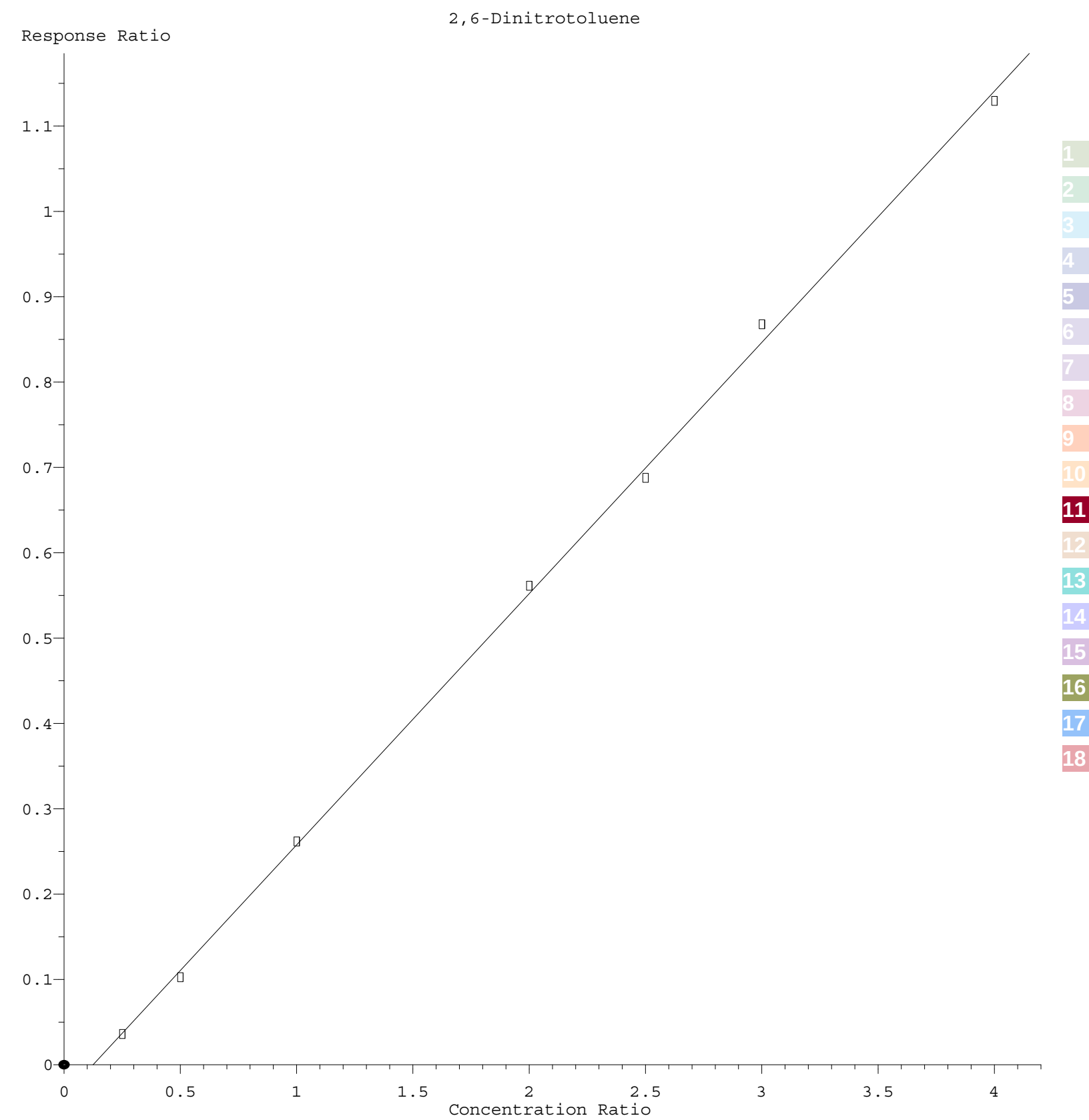
(#) = Out of Range



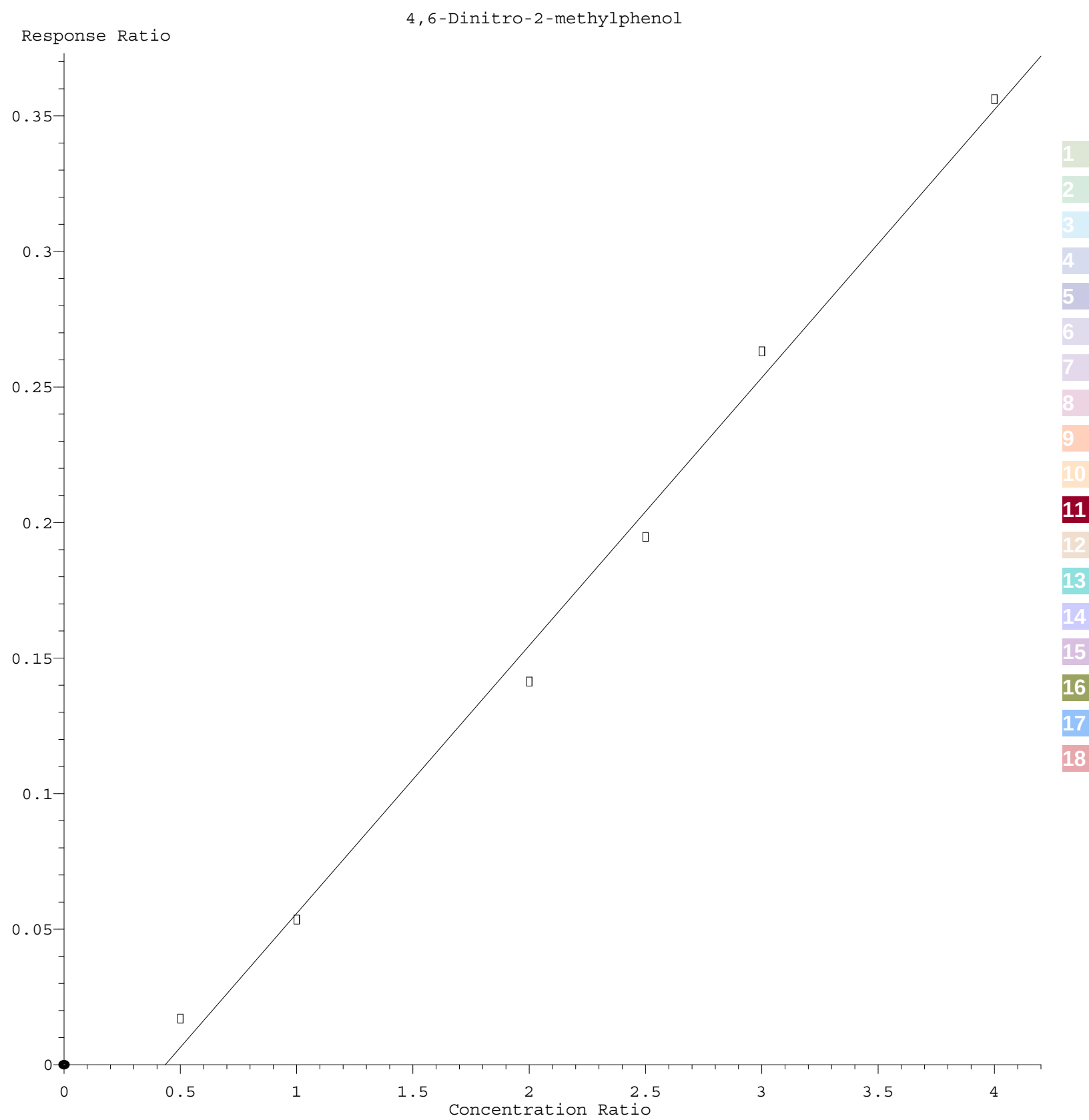
Response = 1.634e-001 * Amt - 3.916e-002
Coef of Det (r^2) = 0.997343 Curve Fit: Linear
Method: \\chromsrv\HPCHEM1\BNA F\Methods\8270-BF080123.M
Calibration Table Last Updated: Wed Aug 02 02:20:34 2023



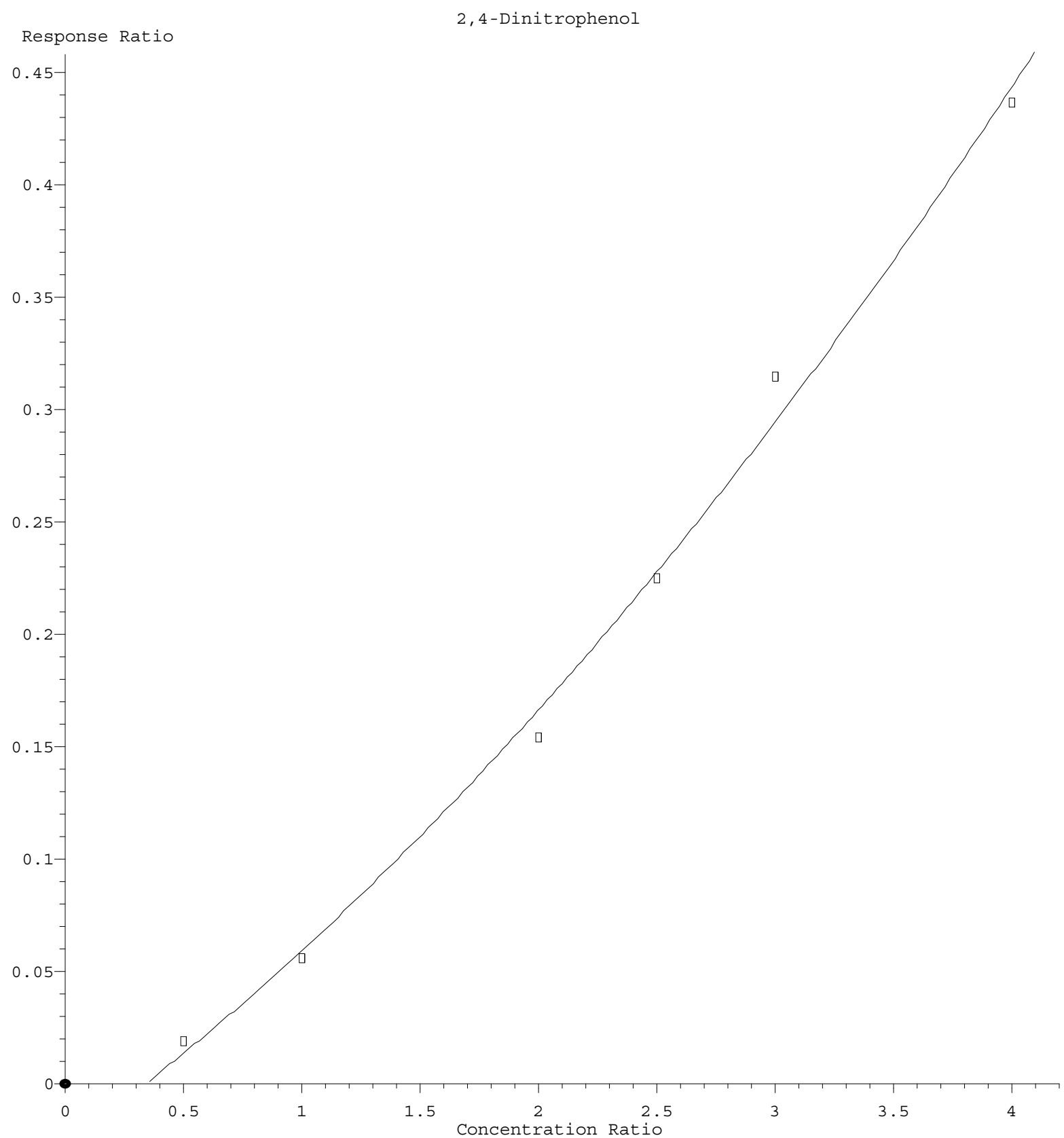
Response = 3.890e-001 * Amt - 6.158e-002
Coef of Det (r^2) = 0.998716 Curve Fit: Linear
Method: \\chemsrv\HPCHEM1\BNA F\Methods\8270-BF080123.M
Calibration Table Last Updated: Wed Aug 02 02:20:34 2023



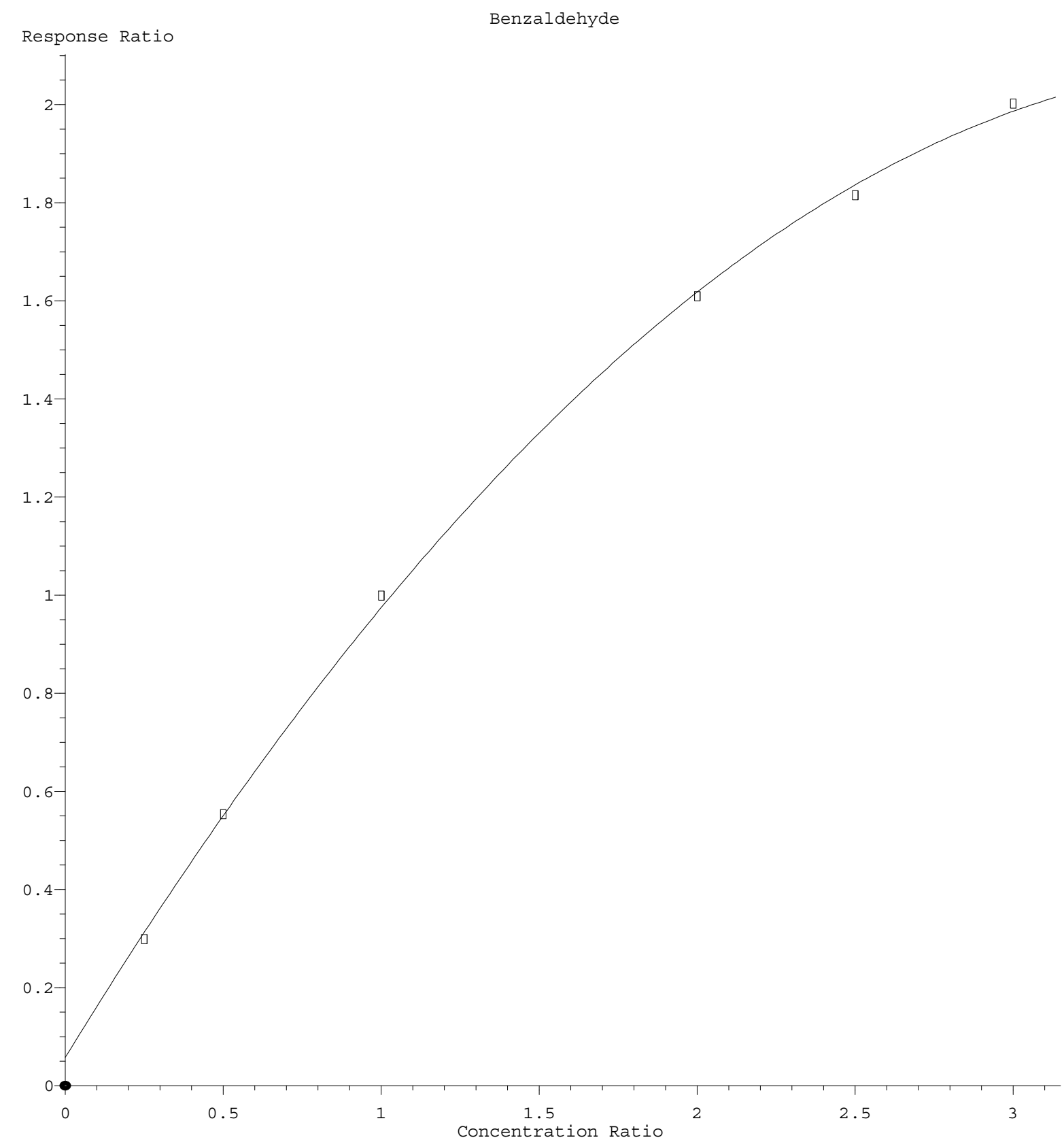
Response = 2.946e-001 * Amt - 3.676e-002
Coef of Det (r^2) = 0.999119 Curve Fit: Linear
Method: \\chrsrv\HPCHEM1\BNA F\Methods\8270-BF080123.M
Calibration Table Last Updated: Wed Aug 02 02:20:34 2023



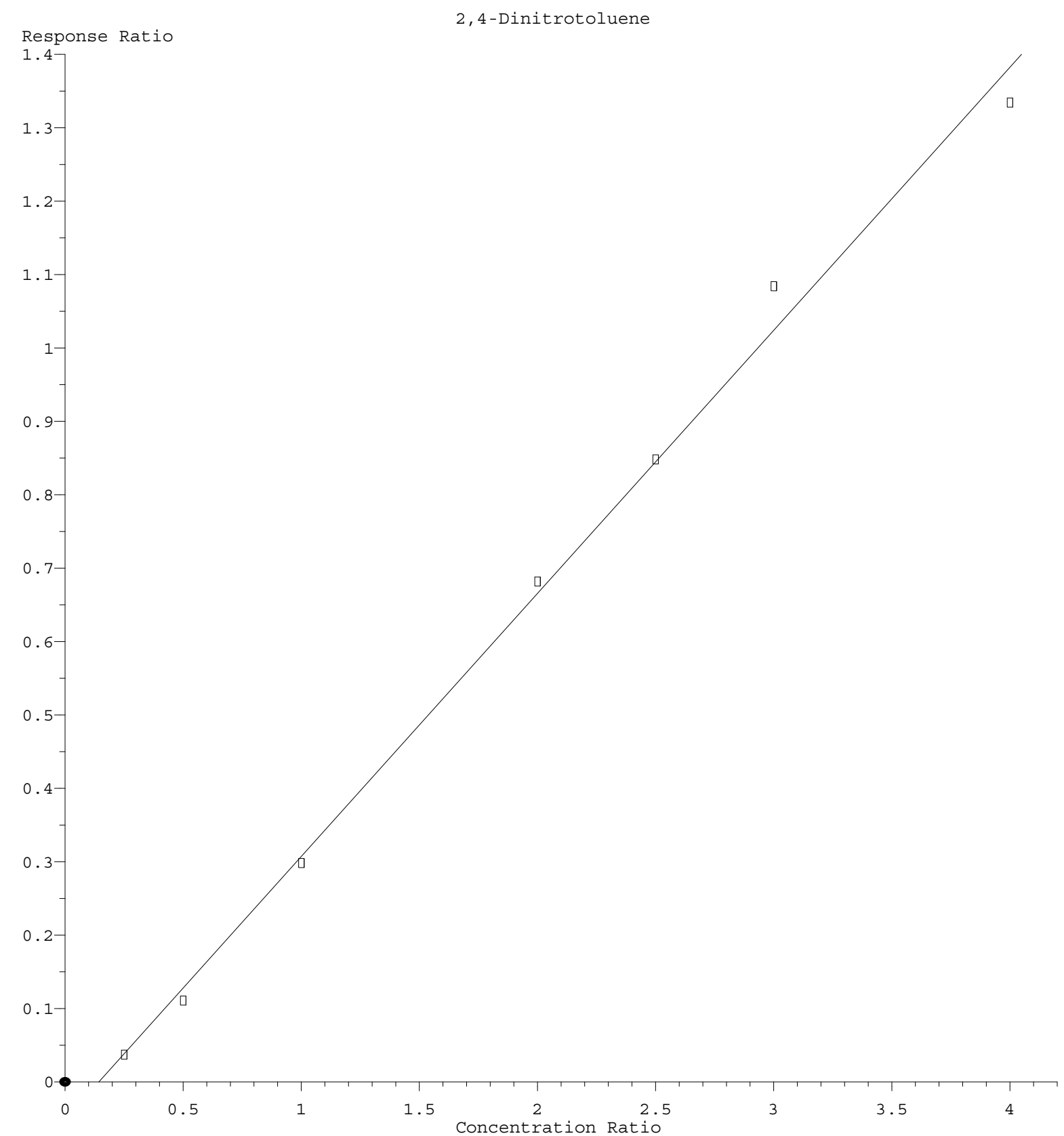
Response = 9.873e-002 * Amt - 4.294e-002
Coef of Det (r^2) = 0.993994 Curve Fit: Linear
Method: \\chromsrv\HPCHEM1\BNA F\Methods\8270-BF080123.M
Calibration Table Last Updated: Wed Aug 02 02:20:34 2023



R = 1.051e-002 A*A + 7.557e-002 A - 2.683e-002
Coef of Det (r^2) = 0.994794 Curve Fit: Quadratic
Method: \\chemsrv\HPCHEM1\BNA F\Methods\8270-BF080123.M
Calibration Table Last Updated: Wed Aug 02 02:20:34 2023



R = -1.371e-001 A*A + 1.054e+000 A + 5.754e-002
Coef of Det (r^2) = 0.999373 Curve Fit: Quadratic
Method: \\chromsrv\HPCHEM1\BNA F\Methods\8270-BF080123.M
Calibration Table Last Updated: Wed Aug 02 02:20:34 2023



Response = 3.586e-001 * Amt - 5.112e-002
Coef of Det (r^2) = 0.995562 Curve Fit: Linear
Method: \\chemsrv\HPCHEM1\BNA F\Methods\8270-BF080123.M
Calibration Table Last Updated: Wed Aug 02 02:20:34 2023

Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080123\
Data File : BF134536.D
Acq On : 01 Aug 2023 07:51
Operator : CG\JU
Sample : SSTDICC2.5
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Quant Time: Aug 02 01:38:15 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 02 01:37:15 2023
Response via : Initial Calibration

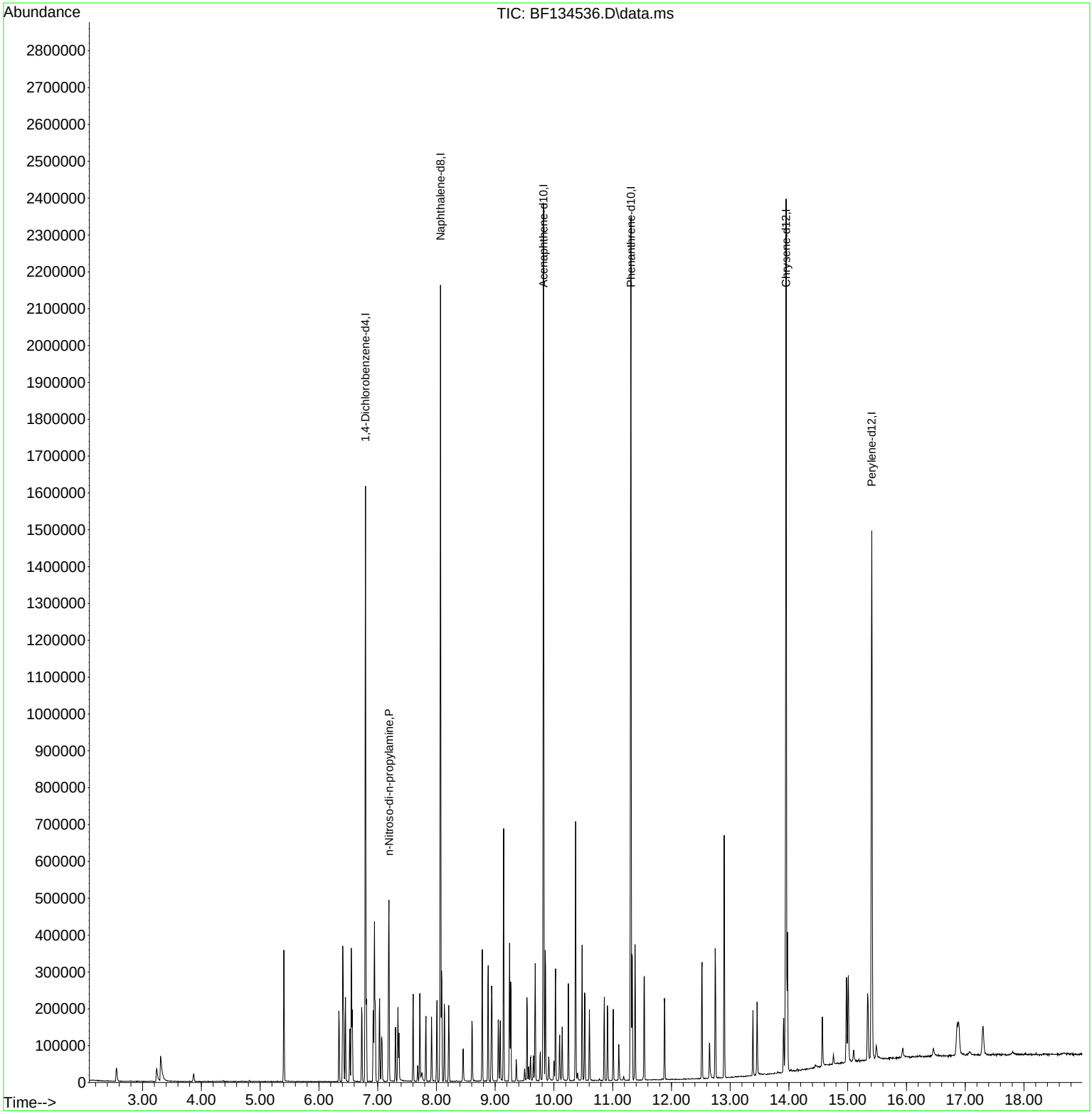
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.793	152	208484	20.000	ng	0.00
21) Naphthalene-d8	8.069	136	828055	20.000	ng	# 0.00
39) Acenaphthene-d10	9.822	164	426328	20.000	ng	0.00
64) Phenanthrene-d10	11.310	188	799140	20.000	ng	# 0.00
76) Chrysene-d12	13.951	240	644326	20.000	ng	#-0.01
86) Perylene-d12	15.410	264	641802	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0d	0.000	ng	
7) Phenol-d6	0.000	99	0d	0.000	ng	
23) Nitrobenzene-d5	0.000	82	0d	0.000	ng	
42) 2,4,6-Tribromophenol	0.000	330	0d	0.000	ng	
45) 2-Fluorobiphenyl	0.000	172	0d	0.000	ng	
79) Terphenyl-d14	0.000	244	0d	0.000	ng	
Target Compounds						Qvalue
19) n-Nitroso-di-n-propyla...	7.193	70	29671	2.827	ng	95

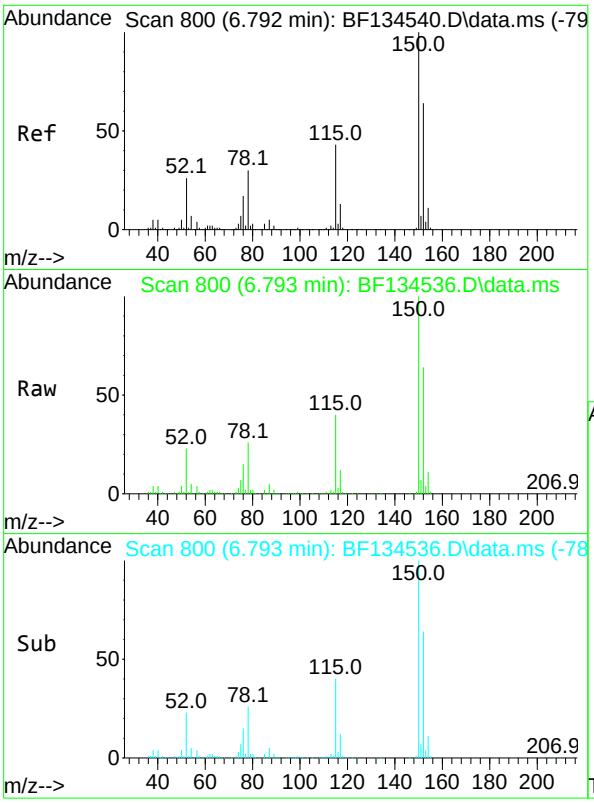
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080123\
Data File : BF134536.D
Acq On : 01 Aug 2023 07:51
Operator : CG\JU
Sample : SSTDICC2.5
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Quant Time: Aug 02 01:38:15 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 02 01:37:15 2023
Response via : Initial Calibration



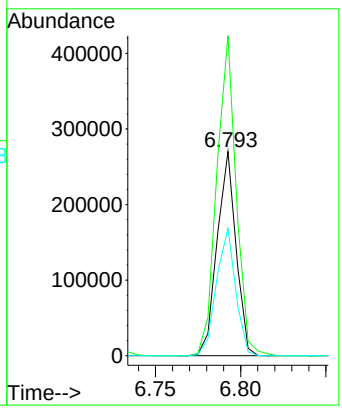


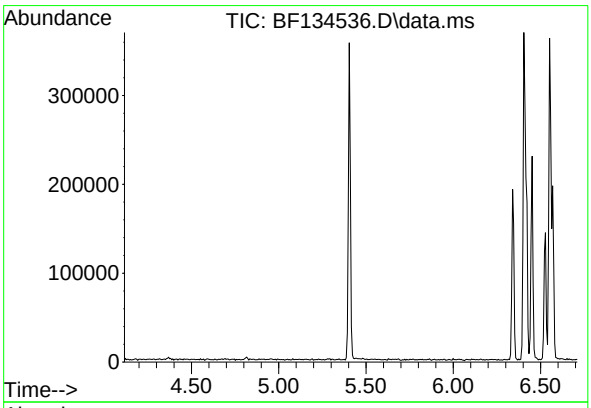
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.793 min Scan# 8
Delta R.T. 0.001 min
Lab File: BF134536.D
Acq: 01 Aug 2023 07:51

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion:152 Resp: 208484

Ion	Ratio	Lower	Upper
152	100		
150	156.8	128.3	192.5
115	62.4	52.4	78.6



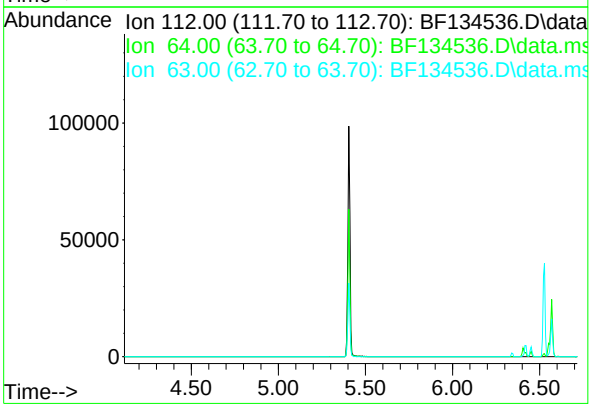


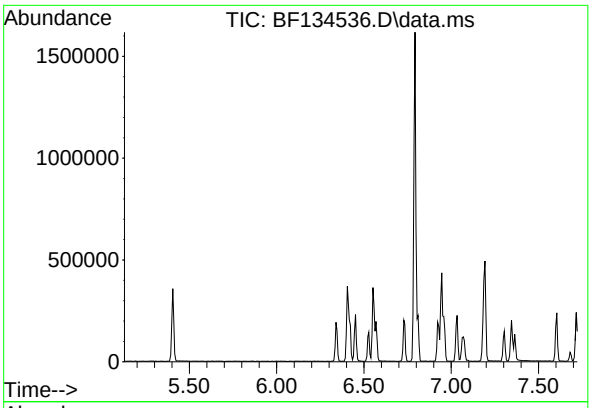
#5
2-Fluorophenol
Concen: 0.000 ng
Expected RT: 5.42 min

Lab File: BF134536.D
Acq: 01 Aug 2023 07:51

Tgt Ion: 112

Sig	Exp Ratio
112	100
64	56.1
63	31.7





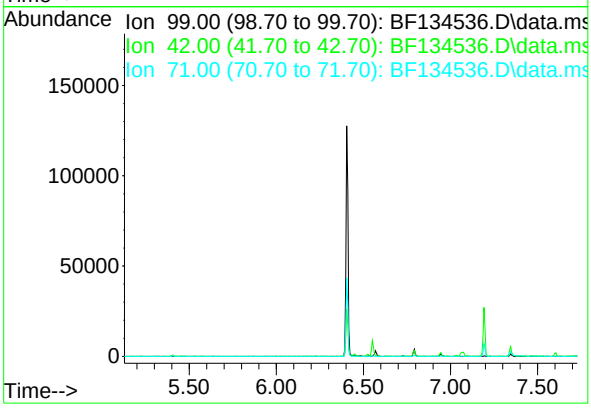
#7
Phenol-d6
Concen: 0.000 ng
Expected RT: 6.43 min

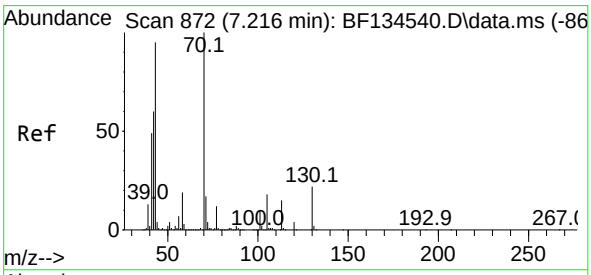
Lab File: BF134536.D
Acq: 01 Aug 2023 07:51

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion: 99

Sig	Exp Ratio
99	100
42	23.4
71	45.5

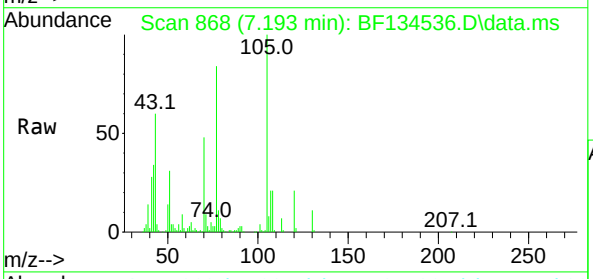


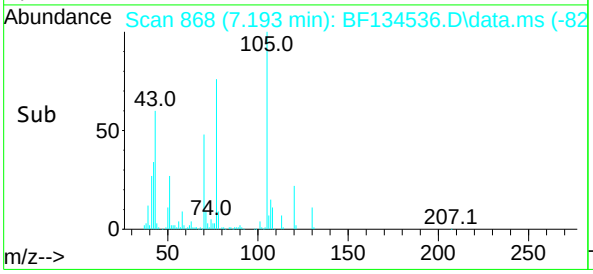


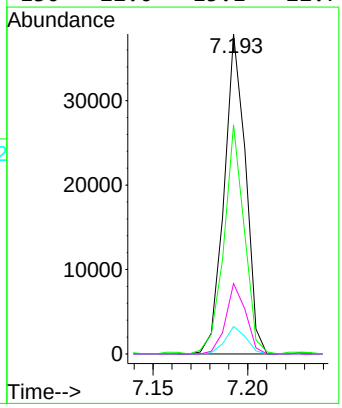
#19
n-Nitroso-di-n-propylamine
Concen: 2.827 ng
RT: 7.193 min Scan# 868
Delta R.T. -0.023 min
Lab File: BF134536.D
Acq: 01 Aug 2023 07:51

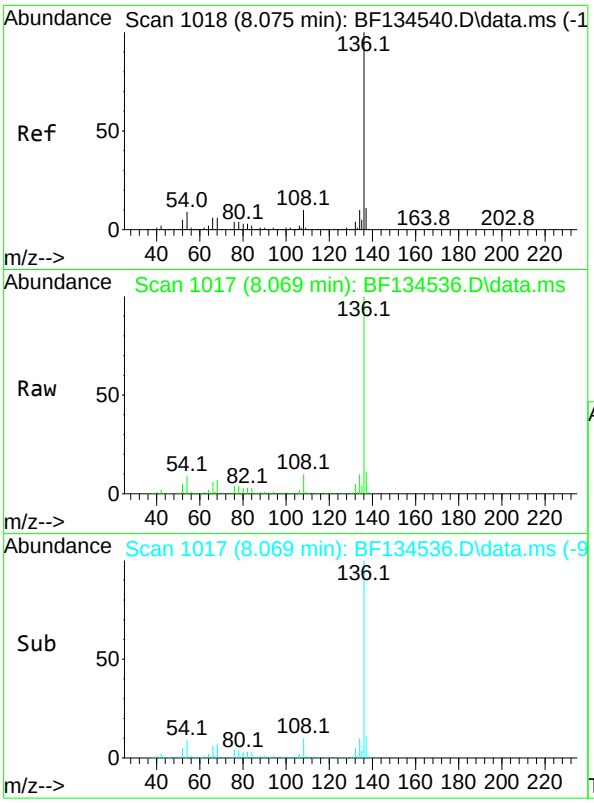
Tgt Ion: 70 Resp: 29671

Ion	Ratio	Lower	Upper
70	100		
42	71.6	54.7	82.1
101	8.6	8.2	12.2
130	22.0	15.1	22.7







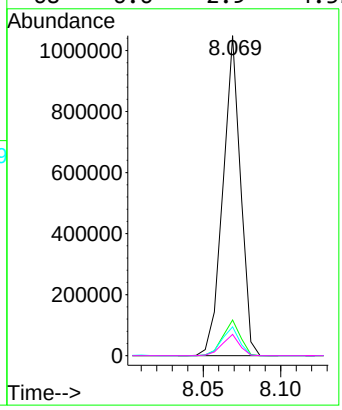


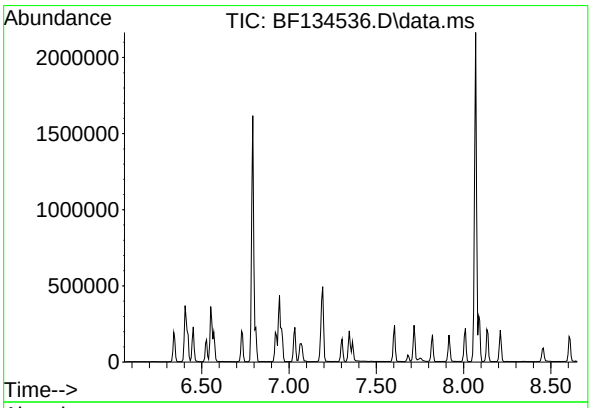
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.069 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF134536.D
Acq: 01 Aug 2023 07:51

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion:136 Resp: 828055

Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.4	12.6
54	9.0	5.2	7.8#
68	6.6	2.9	4.3#



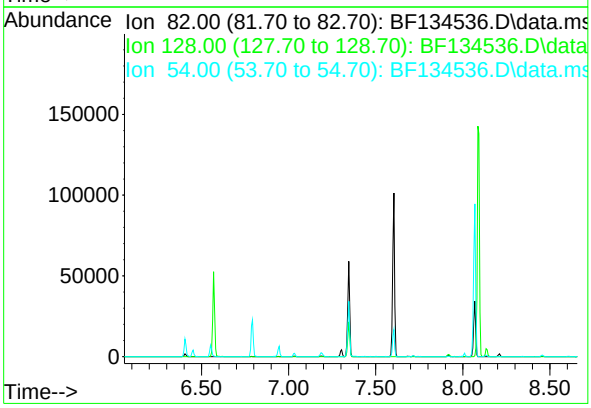


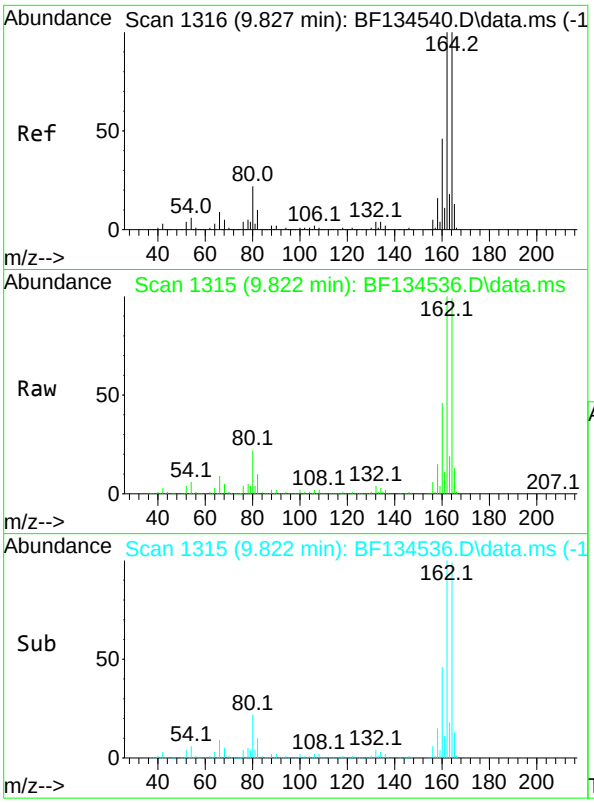
#23
Nitrobenzene-d5
Concen: 0.000 ng
Expected RT: 7.36 min

Lab File: BF134536.D
Acq: 01 Aug 2023 07:51

Tgt Ion: 82

Sig	Exp Ratio
82	100
128	42.9
54	54.7



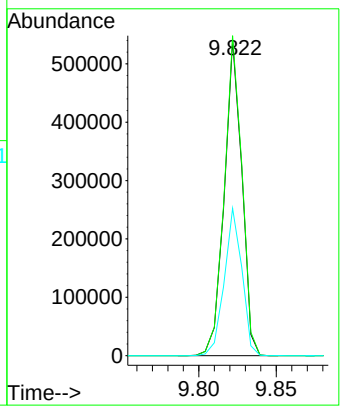


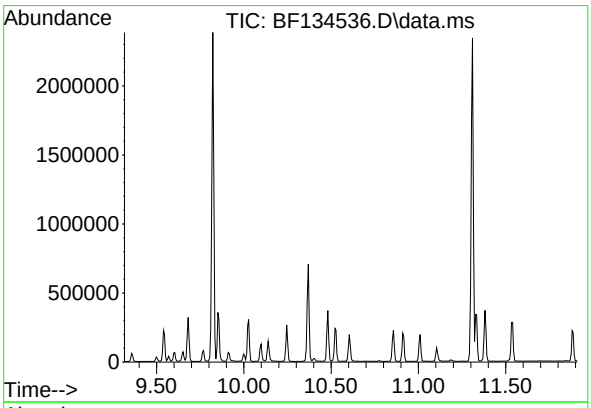
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.822 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF134536.D
Acq: 01 Aug 2023 07:51

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion:164 Resp: 426328

Ion	Ratio	Lower	Upper
164	100		
162	101.4	82.6	123.8
160	46.7	37.2	55.8



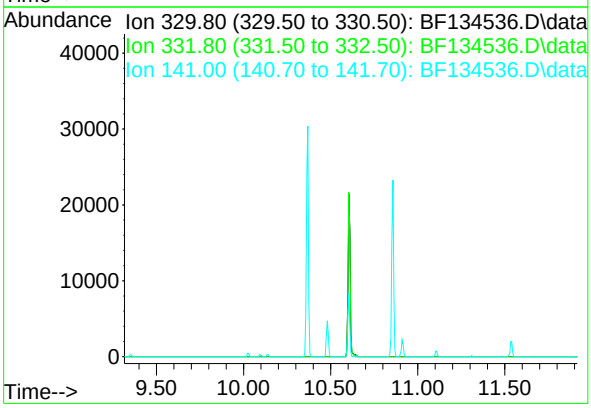


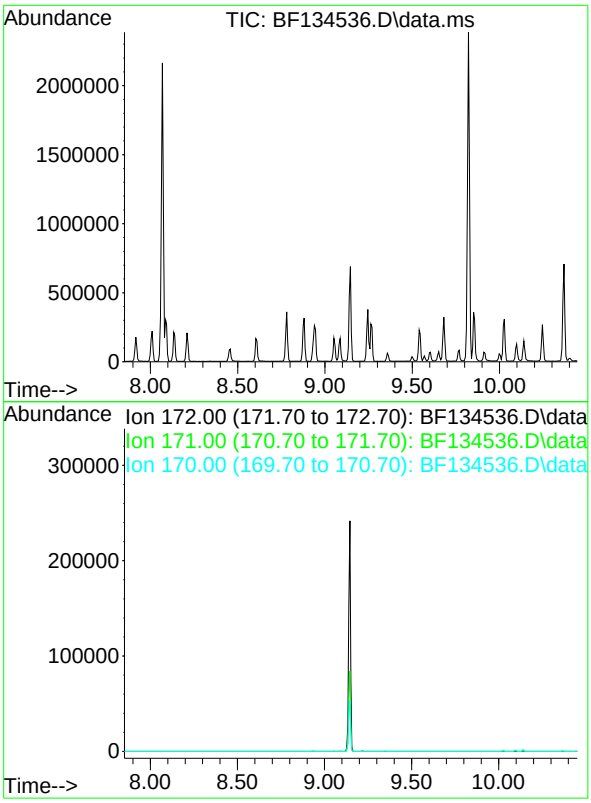
#42
2,4,6-Tribromophenol
Concen: 0.000 ng
Expected RT: 10.62 min

Lab File: BF134536.D
Acq: 01 Aug 2023 07:51

Tgt Ion: 330

Sig	Exp Ratio
330	100
332	98.5
141	31.8





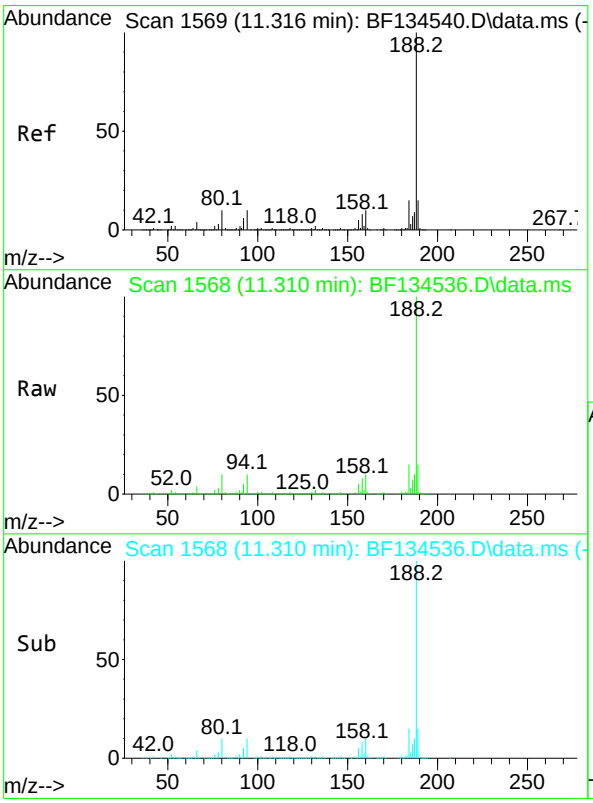
#45
2-Fluorobiphenyl
Concen: 0.000 ng
Expected RT: 9.15 min

Lab File: BF134536.D
Acq: 01 Aug 2023 07:51

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion: 172

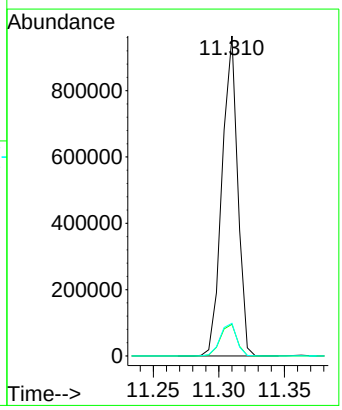
Sig	Exp Ratio
172	100
171	36.0
170	23.4

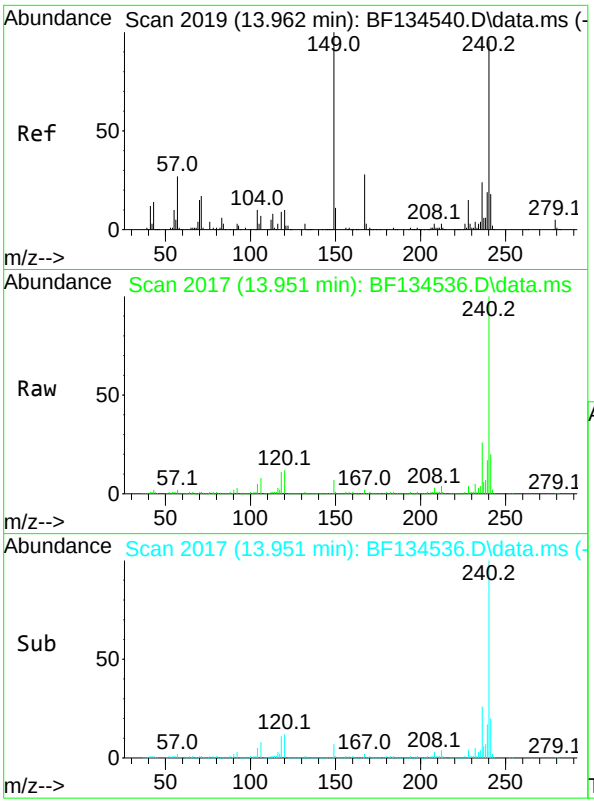


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.310 min Scan# 1568
Delta R.T. -0.006 min
Lab File: BF134536.D
Acq: 01 Aug 2023 07:51

Tgt Ion:188 Resp: 799140

Ion	Ratio	Lower	Upper
188	100		
94	9.9	5.1	7.7#
80	10.2	6.6	9.8#



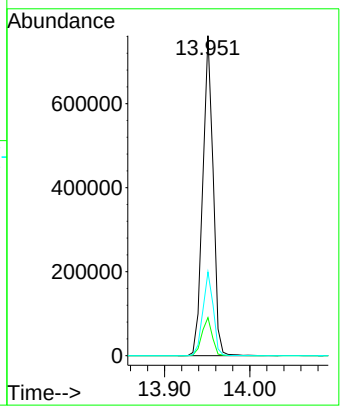


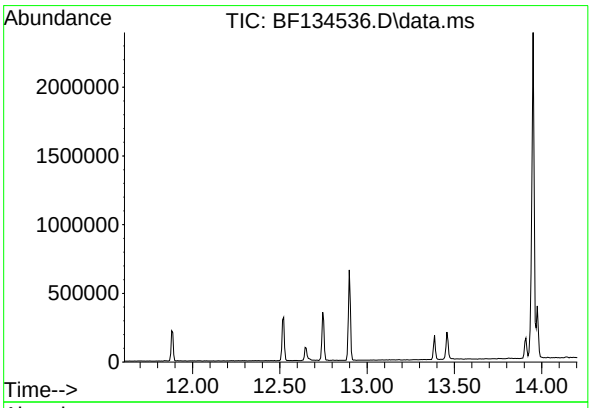
#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.951 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF134536.D
Acq: 01 Aug 2023 07:51

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion:240 Resp: 644326

Ion	Ratio	Lower	Upper
240	100		
120	11.9	6.6	10.0#
236	26.2	20.2	30.2



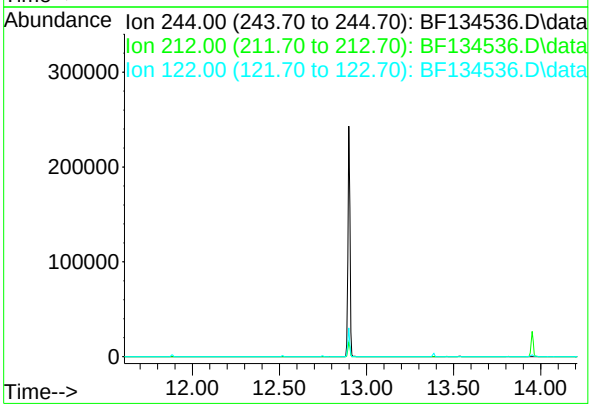


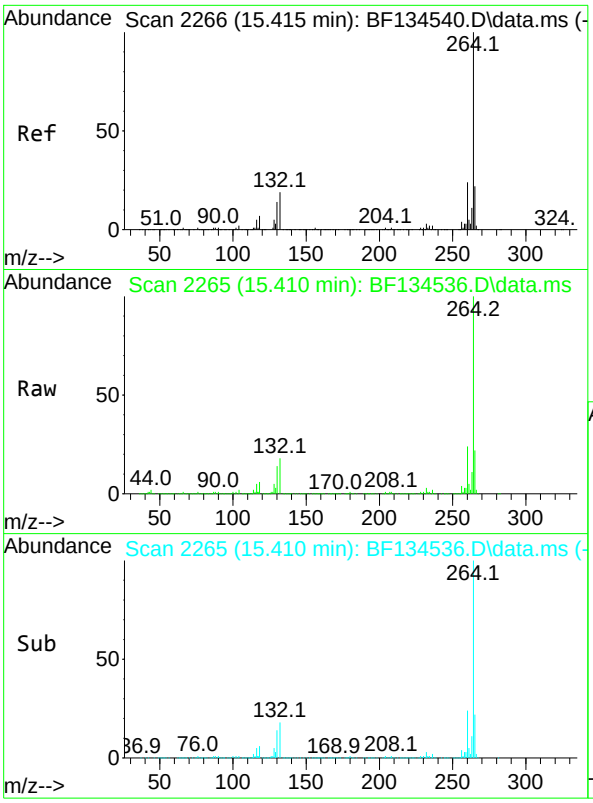
#79
Terphenyl-d14
Concen: 0.000 ng
Expected RT: 12.91 min

Lab File: BF134536.D
Acq: 01 Aug 2023 07:51

Tgt Ion: 244

Sig	Exp Ratio
244	100
212	7.0
122	10.0



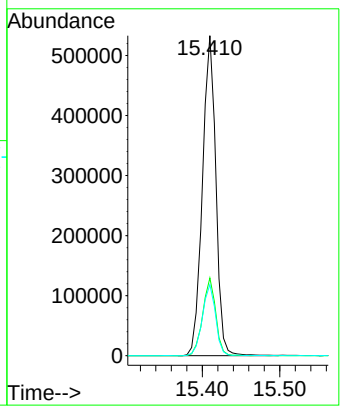


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.410 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF134536.D
Acq: 01 Aug 2023 07:51

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion:264 Resp: 641802

Ion	Ratio	Lower	Upper
264	100		
260	24.3	18.4	27.6
265	22.2	15.8	23.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080123\
Data File : BF134537.D
Acq On : 01 Aug 2023 08:22
Operator : CG\JU
Sample : SSTDICC005
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 02 02:09:32 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 02 02:08:18 2023
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.792	152	207455	20.000	ng		0.00
21) Naphthalene-d8	8.069	136	827784	20.000	ng	#	0.00
39) Acenaphthene-d10	9.822	164	421573	20.000	ng		0.00
64) Phenanthrene-d10	11.310	188	768983	20.000	ng	#	0.00
76) Chrysene-d12	13.951	240	612073	20.000	ng	#	-0.01
86) Perylene-d12	15.410	264	605165	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.404	112	154981	11.356	ng		-0.01
7) Phenol-d6	6.410	99	197490	11.320	ng		-0.02
23) Nitrobenzene-d5	7.345	82	106746	8.059	ng		-0.01
42) 2,4,6-Tribromophenol	10.610	330	37987	8.839	ng		0.00
45) 2-Fluorobiphenyl	0.000	172	0d	0.000	ng		
79) Terphenyl-d14	12.898	244	357226	10.289	ng		-0.01
Target Compounds							Qvalue
2) 1,4-Dioxane	2.552	88	33224	5.291	ng		97
3) Pyridine	3.299	79	91524	5.379	ng		95
4) n-Nitrosodimethylamine	3.234	42	41393	5.091	ng	#	68
6) Aniline	6.451	93	126084	5.510	ng		91
8) 2-Chlorophenol	6.569	128	76882	5.585	ng		98
9) Benzaldehyde	6.340	77	62013	4.724	ng		97
10) Phenol	6.422	94	96803	5.630	ng		77
11) bis(2-Chloroethyl)ether	6.528	93	76856	5.628	ng		92
12) 1,3-Dichlorobenzene	6.734	146	81540	5.725	ng		94
13) 1,4-Dichlorobenzene	6.810	146	81976	5.742	ng		97
14) 1,2-Dichlorobenzene	6.957	146	78239	5.882	ng		98
15) Benzyl Alcohol	6.928	79	67808	5.634	ng		94
16) 2,2'-oxybis(1-Chloropr...	7.069	45	119585	5.589	ng		88
17) 2-Methylphenol	7.034	107	65902	5.417	ng		92
18) Hexachloroethane	7.304	117	26900	5.369	ng		98
19) n-Nitroso-di-n-propyla...	7.192	70	57731	5.527	ng		98
20) 3+4-Methylphenols	7.187	107	86146	5.872	ng	#	67
22) Acetophenone	7.192	105	112080	5.865	ng	#	88
24) Nitrobenzene	7.363	77	61796	4.318	ng		96
25) Isophorone	7.604	82	153962	5.329	ng		97
26) 2-Nitrophenol	7.681	139	13407	6.774	ng		96
27) 2,4-Dimethylphenol	7.716	122	68384	5.305	ng		83
28) bis(2-Chloroethoxy)met...	7.822	93	93021	5.382	ng		97
29) 2,4-Dichlorophenol	7.916	162	58890	5.033	ng		98
30) 1,2,4-Trichlorobenzene	8.010	180	67395	5.402	ng		95
31) Naphthalene	8.092	128	231957	5.576	ng		99
33) 4-Chloroaniline	8.139	127	99595	5.373	ng		96
34) Hexachlorobutadiene	8.210	225	39538	5.494	ng		99
35) Caprolactam	8.463	113	17241	4.566	ng		96
36) 4-Chloro-3-methylphenol	8.610	107	63438	5.120	ng		91
37) 2-Methylnaphthalene	8.781	142	157289	5.704	ng		96
38) 1-Methylnaphthalene	8.881	142	145470	5.673	ng		98
40) 1,2,4,5-Tetrachloroben...	8.945	216	67849	5.535	ng		99
41) Hexachlorocyclopentadiene	8.934	237	25989	4.360	ng		96
43) 2,4,6-Trichlorophenol	9.051	196	38702	4.824	ng		97
44) 2,4,5-Trichlorophenol	9.086	196	45283	4.938	ng		92

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080123\
Data File : BF134537.D
Acq On : 01 Aug 2023 08:22
Operator : CG\JU
Sample : SSTDICC005
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

Quant Time: Aug 02 02:09:32 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 02 02:08:18 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) 1,1'-Biphenyl	9.245	154	189976	5.795	ng		99
47) 2-Chloronaphthalene	9.269	162	136300	5.549	ng		96
48) 2-Nitroaniline	9.357	65	18155	5.380	ng		90
49) Acenaphthylene	9.681	152	214791	5.563	ng		98
50) Dimethylphthalate	9.545	163	155135	5.399	ng		99
51) 2,6-Dinitrotoluene	9.604	165	15162	4.937	ng		94
52) Acenaphthene	9.857	154	137389	5.491	ng		99
53) 3-Nitroaniline	9.769	138	20385	3.183	ng	#	78
55) Dibenzofuran	10.028	168	200910	5.640	ng		94
57) 2,4-Dinitrotoluene	10.004	165	15639	4.920	ng	#	92
58) Fluorene	10.369	166	155827	6.006	ng		93
59) 2,3,4,6-Tetrachlorophenol	10.139	232	34076m	4.689	ng		
60) Diethylphthalate	10.245	149	146425	5.376	ng		100
61) 4-Chlorophenyl-phenyle...	10.369	204	77456	6.074	ng		95
62) 4-Nitroaniline	10.375	138	20808	3.315	ng		93
63) Azobenzene	10.528	77	159664	5.456	ng		99
66) n-Nitrosodiphenylamine	10.480	169	133225	5.443	ng		98
67) 4-Bromophenyl-phenylether	10.857	248	44825	5.325	ng		99
68) Hexachlorobenzene	10.916	284	46103	5.186	ng		94
69) Atrazine	11.010	200	35608	5.397	ng		96
70) Pentachlorophenol	11.104	266	21564	3.918	ng		93
71) Phenanthrene	11.333	178	231699	5.673	ng		98
72) Anthracene	11.380	178	235519	5.645	ng		100
73) Carbazole	11.539	167	205987	5.530	ng		98
74) Di-n-butylphthalate	11.886	149	202517	5.117	ng		100
75) Fluoranthene	12.522	202	238040	5.517	ng		96
77) Benzidine	12.651	184	80149	6.032	ng		99
78) Pyrene	12.751	202	247399	4.671	ng		98
80) Butylbenzylphthalate	13.386	149	65988	3.685	ng		93
81) Benzo(a)anthracene	13.939	228	223002	5.095	ng		98
82) 3,3'-Dichlorobenzidine	13.910	252	63769	5.027	ng	#	94
83) Chrysene	13.974	228	218376	5.121	ng		99
84) Bis(2-ethylhexyl)phtha...	13.951	149	96502	4.579	ng	#	98
85) Di-n-octyl phthalate	14.568	149	134124	4.185	ng	#	95
87) Indeno(1,2,3-cd)pyrene	16.868	276	154113	4.330	ng	#	91
88) Benzo(b)fluoranthene	14.980	252	192211	5.208	ng	#	97
89) Benzo(k)fluoranthene	15.010	252	185117	5.035	ng	#	97
90) Benzo(a)pyrene	15.345	252	170000	4.940	ng	#	96
91) Dibenzo(a,h)anthracene	16.898	278	123839	4.305	ng		95
92) Benzo(g,h,i)perylene	17.304	276	121239	4.132	ng	#	93

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

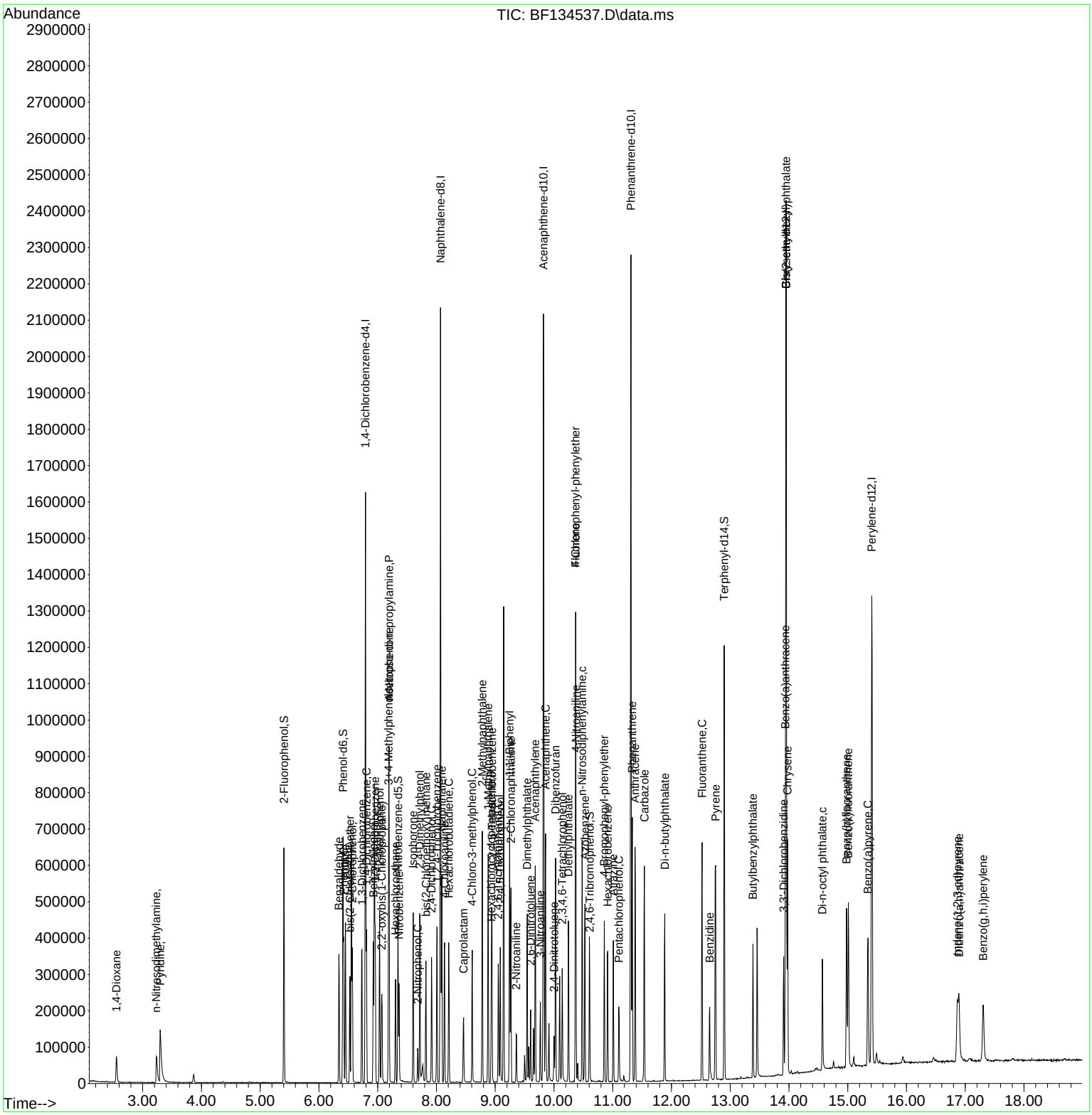
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080123\
Data File : BF134537.D
Acq On : 01 Aug 2023 08:22
Operator : CG\JU
Sample : SSTDICC005
Misc :
ALS Vial : 3 Sample Multiplier: 1

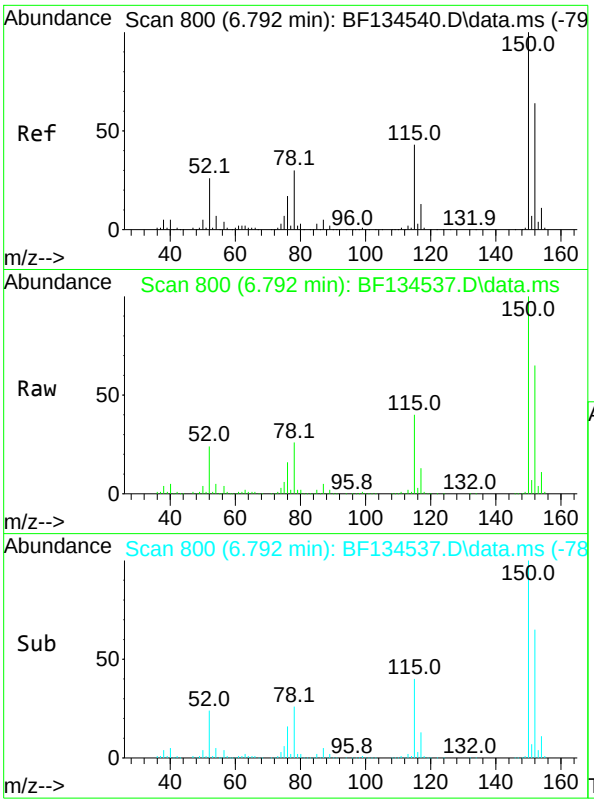
Quant Time: Aug 02 02:09:32 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 02 02:08:18 2023
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

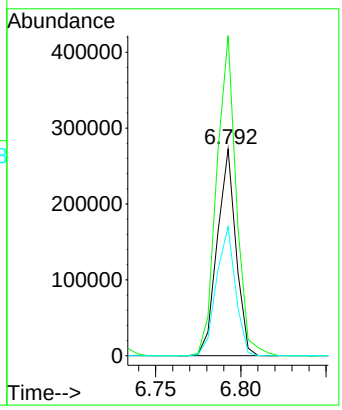




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.792 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF134537.D
Acq: 01 Aug 2023 08:22

Tgt Ion:152 Resp: 20745

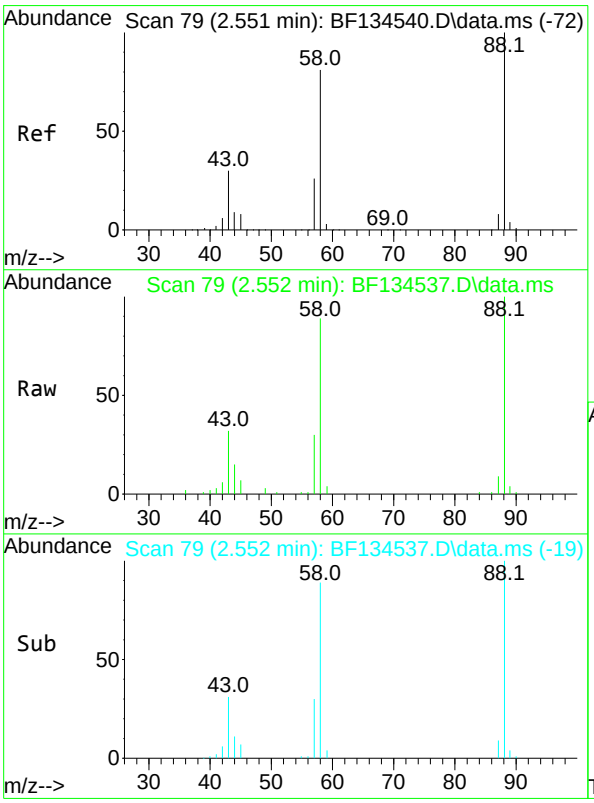
Ion	Ratio	Lower	Upper
152	100		
150	154.9	128.3	192.5
115	62.4	52.4	78.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

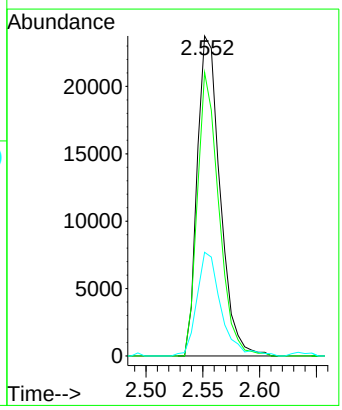
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

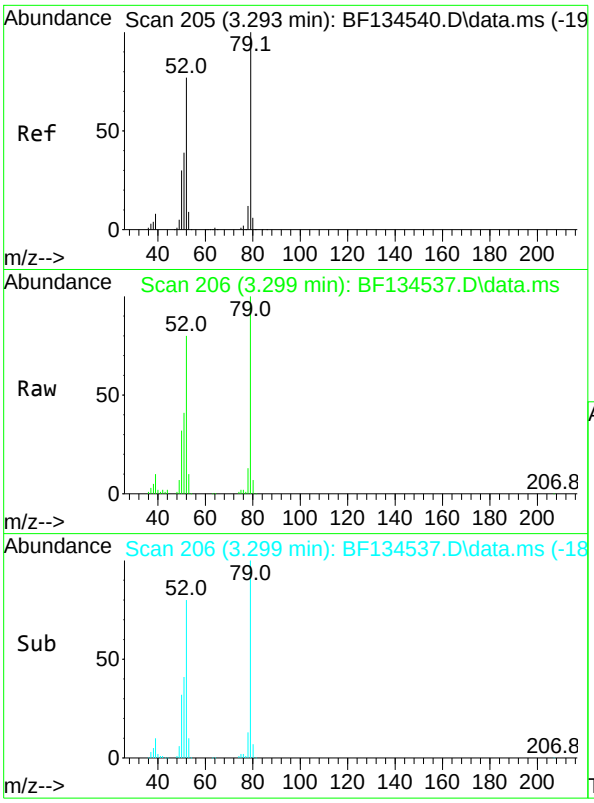


#2
1,4-Dioxane
Concen: 5.291 ng
RT: 2.552 min Scan# 79
Delta R.T. 0.000 min
Lab File: BF134537.D
Acq: 01 Aug 2023 08:22

Tgt Ion: 88 Resp: 33224

Ion	Ratio	Lower	Upper
88	100		
58	83.2	65.1	97.7
43	34.3	30.3	45.5

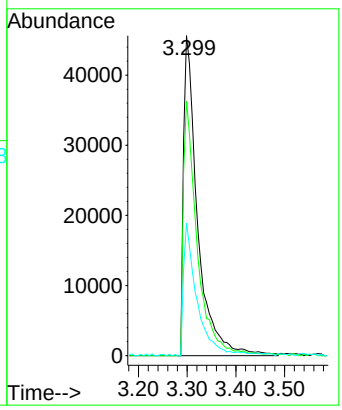




#3
Pyridine
Concen: 5.379 ng
RT: 3.299 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF134537.D
Acq: 01 Aug 2023 08:22

Tgt Ion: 79 Resp: 9152

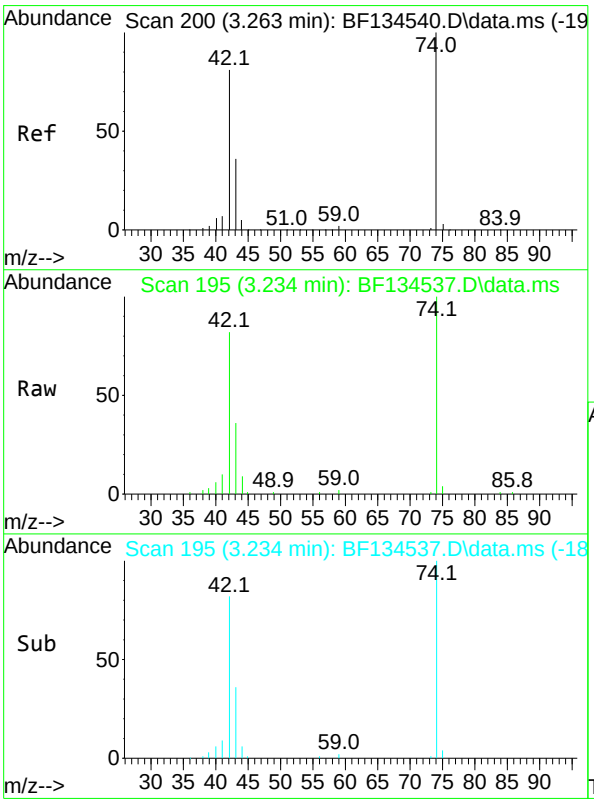
Ion	Ratio	Lower	Upper
79	100		
52	79.6	66.6	100.0
51	41.4	36.5	54.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

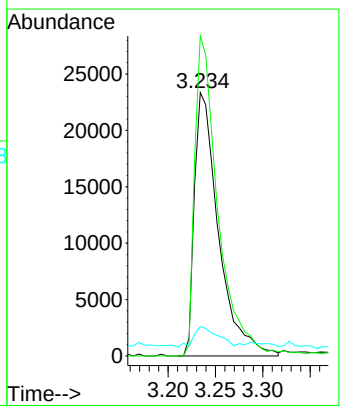
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

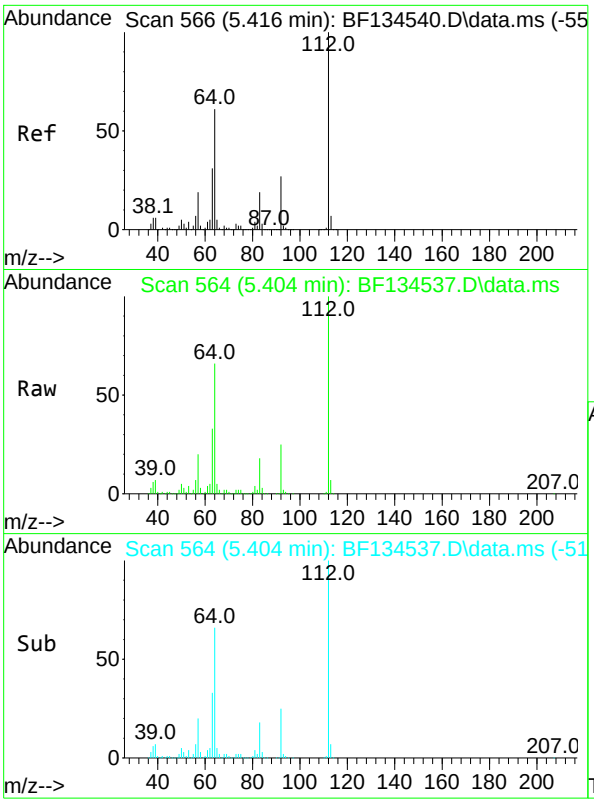


#4
n-Nitrosodimethylamine
Concen: 5.091 ng
RT: 3.234 min Scan# 195
Delta R.T. -0.029 min
Lab File: BF134537.D
Acq: 01 Aug 2023 08:22

Tgt Ion: 42 Resp: 41393

Ion	Ratio	Lower	Upper
42	100		
74	121.5	72.2	108.4#
44	11.2	5.4	8.0#





#5
2-Fluorophenol
Concen: 11.356 ng
RT: 5.404 min Scan# 5
Delta R.T. -0.012 min
Lab File: BF134537.D
Acq: 01 Aug 2023 08:22

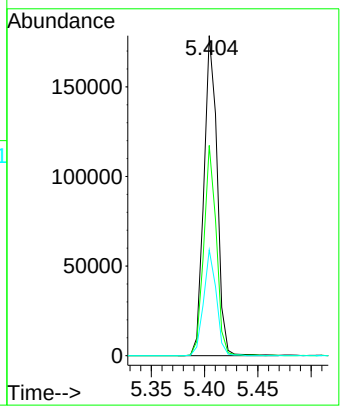
Tgt Ion:112 Resp: 15498

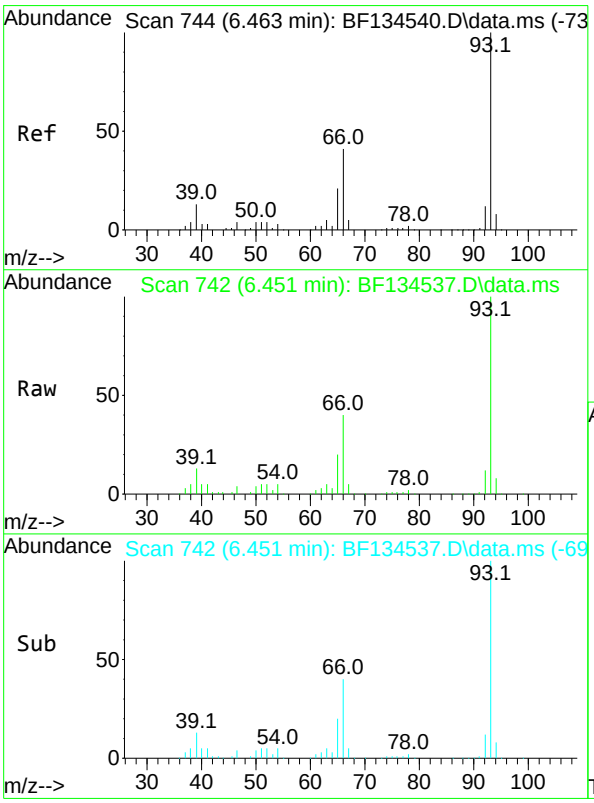
Ion	Ratio	Lower	Upper
112	100		
64	65.7	44.9	67.3
63	33.1	25.4	38.0

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

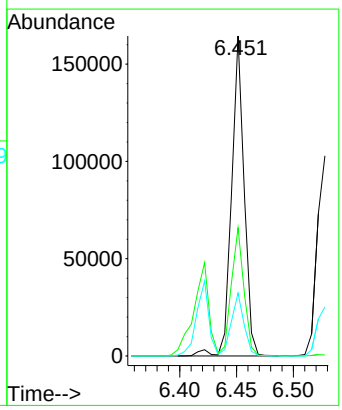


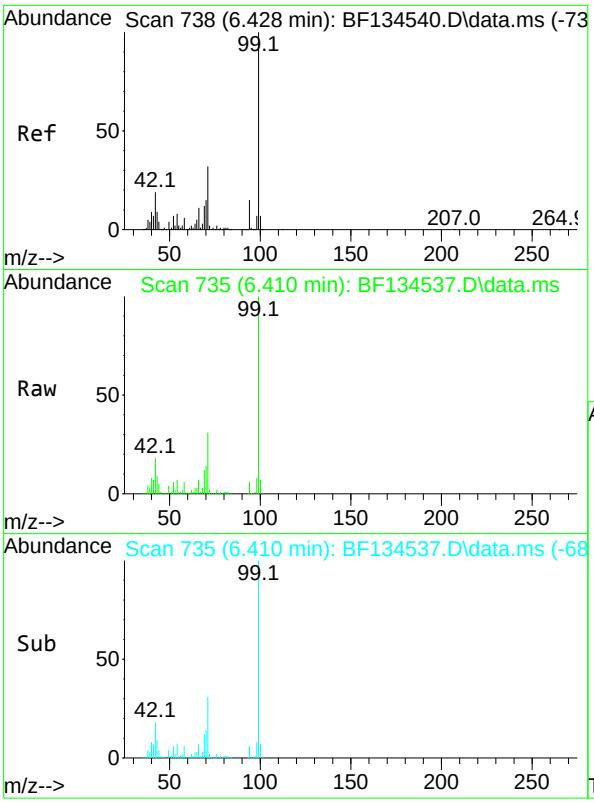


#6
Aniline
Concen: 5.510 ng
RT: 6.451 min Scan# 742
Delta R.T. -0.012 min
Lab File: BF134537.D
Acq: 01 Aug 2023 08:22

Tgt Ion: 93 Resp: 126084

Ion	Ratio	Lower	Upper
93	100		
66	40.1	36.8	55.2
65	19.7	19.4	29.0

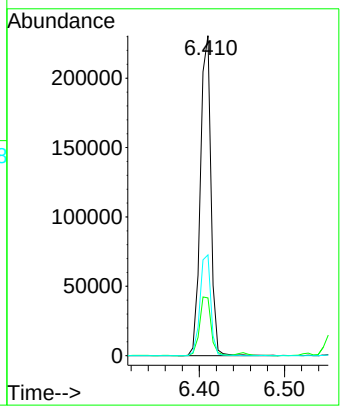




#7
Phenol-d6
Concen: 11.320 ng
RT: 6.410 min Scan# 7
Delta R.T. -0.017 min
Lab File: BF134537.D
Acq: 01 Aug 2023 08:22

Tgt Ion: 99 Resp: 19749

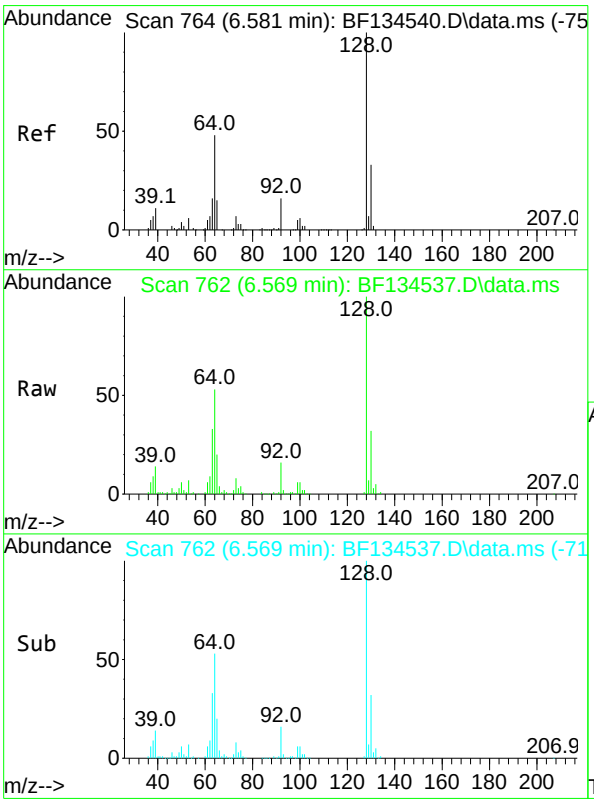
Ion	Ratio	Lower	Upper
99	100		
42	18.0	18.7	28.1#
71	31.5	36.4	54.6#



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

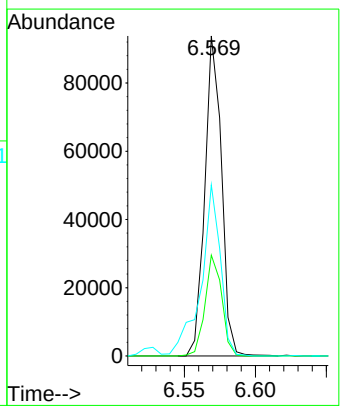
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

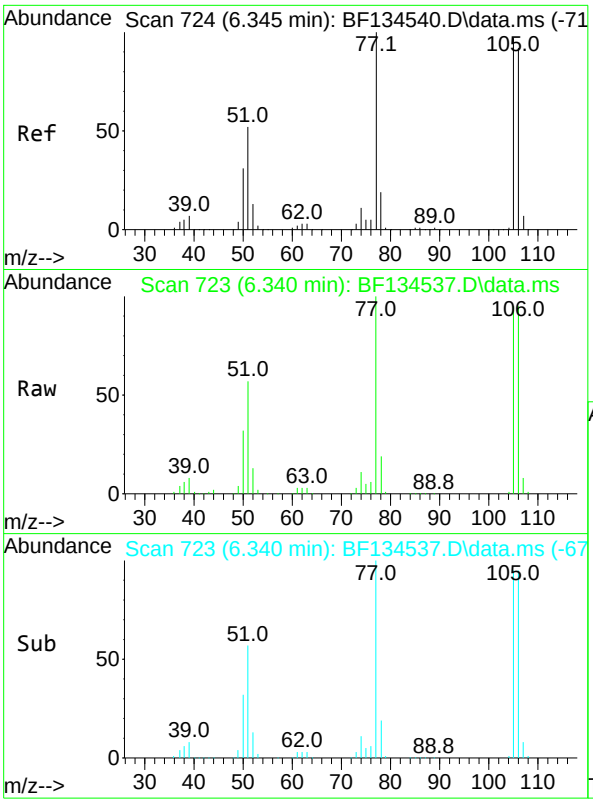


#8
2-Chlorophenol
Concen: 5.585 ng
RT: 6.569 min Scan# 762
Delta R.T. -0.012 min
Lab File: BF134537.D
Acq: 01 Aug 2023 08:22

Tgt Ion:128 Resp: 76882

Ion	Ratio	Lower	Upper
128	100		
130	31.5	11.1	51.1
64	53.5	31.9	71.9

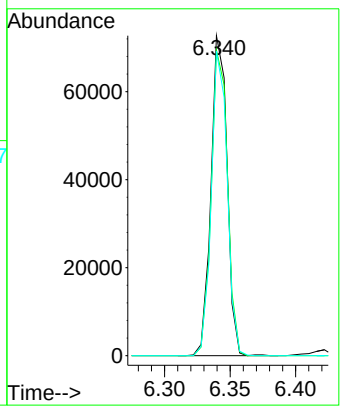




#9
Benzaldehyde
Concen: 4.724 ng
RT: 6.340 min Scan# 7
Delta R.T. -0.005 min
Lab File: BF134537.D
Acq: 01 Aug 2023 08:22

Tgt Ion: 77 Resp: 6201

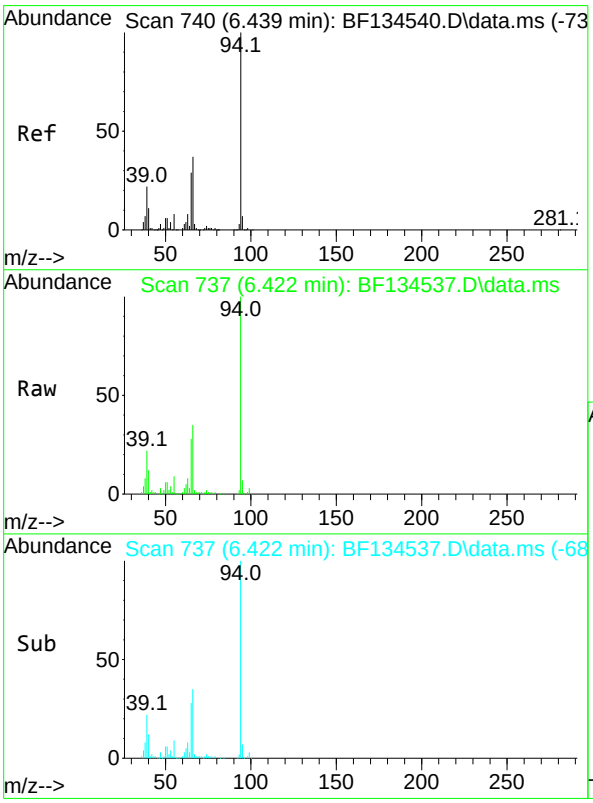
Ion	Ratio	Lower	Upper
77	100		
105	95.5	77.1	117.1
106	95.2	71.4	111.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

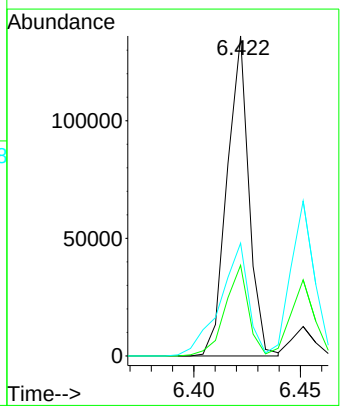
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

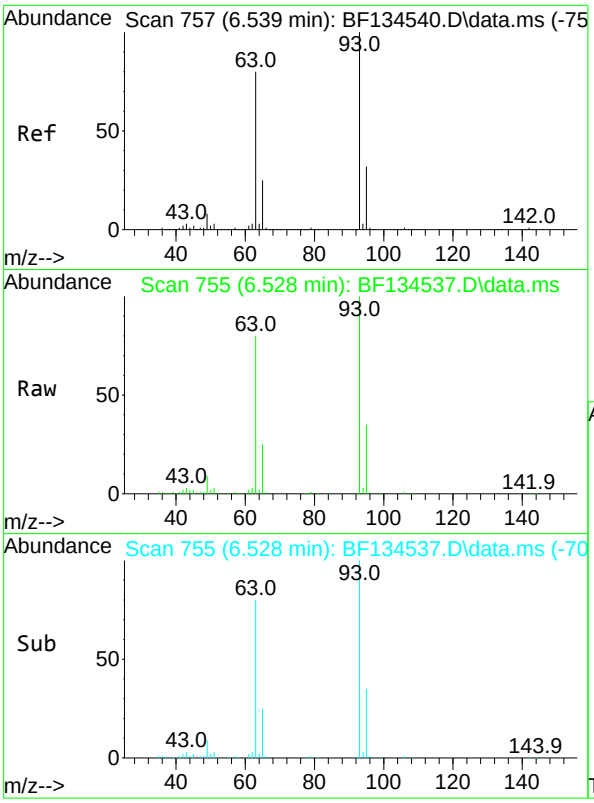


#10
Phenol
Concen: 5.630 ng
RT: 6.422 min Scan# 737
Delta R.T. -0.017 min
Lab File: BF134537.D
Acq: 01 Aug 2023 08:22

Tgt Ion: 94 Resp: 96803

Ion	Ratio	Lower	Upper
94	100		
65	28.4	17.8	57.8
66	35.2	35.2	75.2

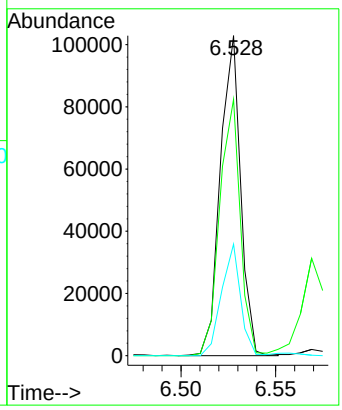




#11
bis(2-Chloroethyl)ether
Concen: 5.628 ng
RT: 6.528 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF134537.D
Acq: 01 Aug 2023 08:22

Tgt Ion: 93 Resp: 7685

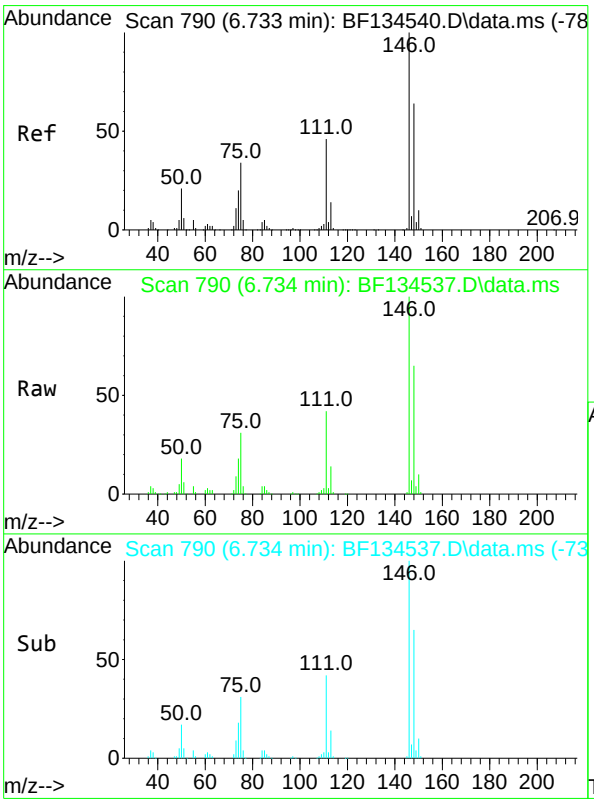
Ion	Ratio	Lower	Upper
93	100		
63	80.1	68.4	108.4
95	34.8	12.4	52.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

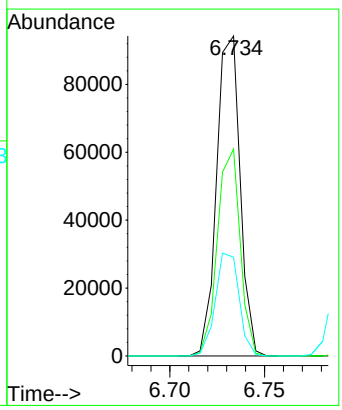
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

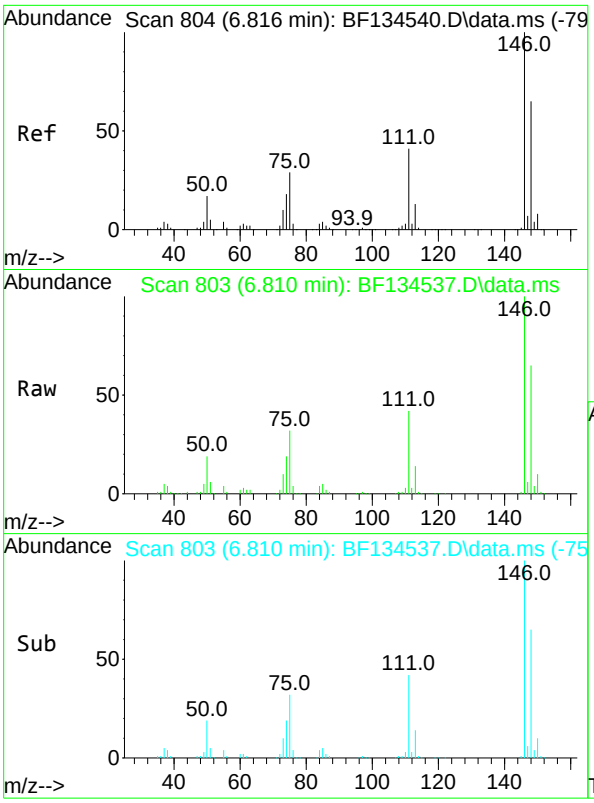


#12
1,3-Dichlorobenzene
Concen: 5.725 ng
RT: 6.734 min Scan# 790
Delta R.T. 0.000 min
Lab File: BF134537.D
Acq: 01 Aug 2023 08:22

Tgt Ion:146 Resp: 81540

Ion	Ratio	Lower	Upper
146	100		
148	64.7	49.7	74.5
75	30.9	29.5	44.3

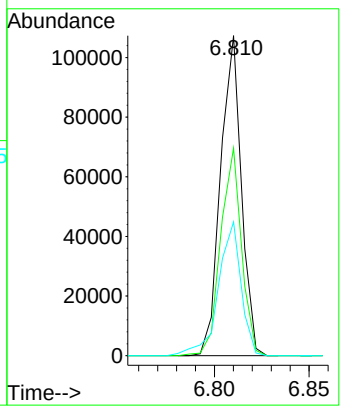




#13
1,4-Dichlorobenzene
Concen: 5.742 ng
RT: 6.810 min Scan# 8(
Delta R.T. -0.006 min
Lab File: BF134537.D
Acq: 01 Aug 2023 08:22

Tgt Ion:146 Resp: 8197(

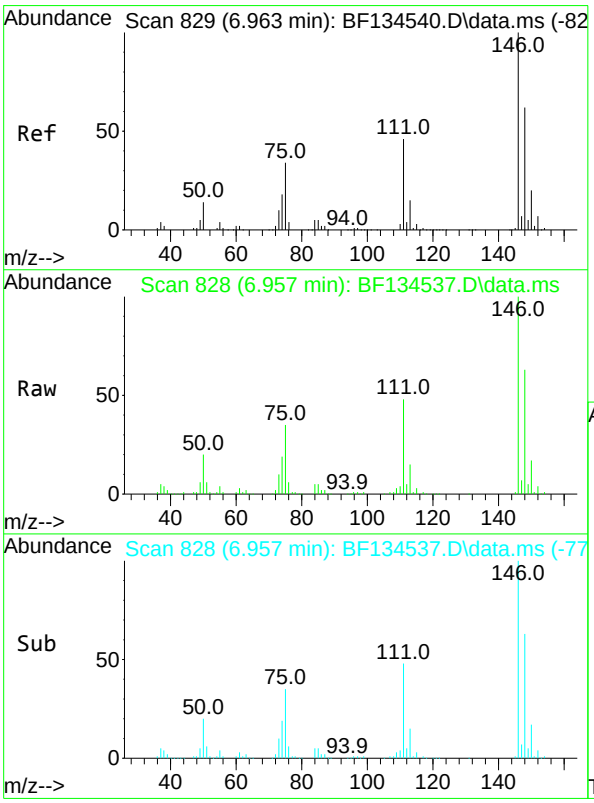
Ion	Ratio	Lower	Upper
146	100		
148	64.9	51.3	76.9
111	41.8	36.6	55.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

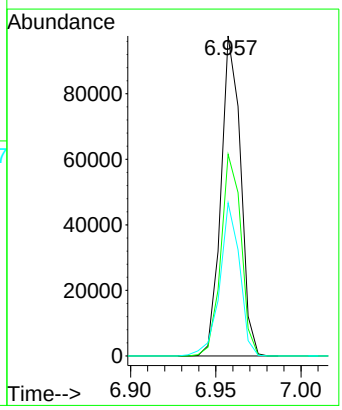
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

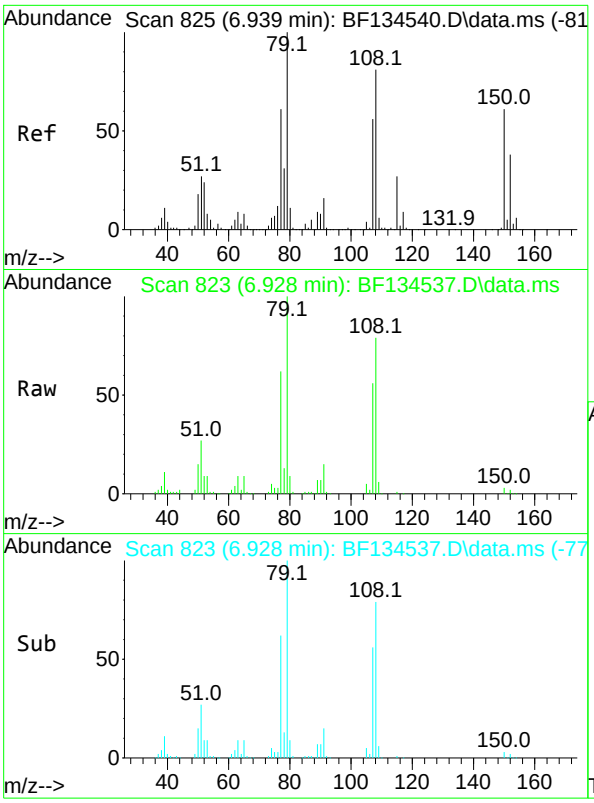


#14
1,2-Dichlorobenzene
Concen: 5.882 ng
RT: 6.957 min Scan# 828
Delta R.T. -0.006 min
Lab File: BF134537.D
Acq: 01 Aug 2023 08:22

Tgt Ion:146 Resp: 78239

Ion	Ratio	Lower	Upper
146	100		
148	63.0	51.2	76.8
111	47.8	39.9	59.9

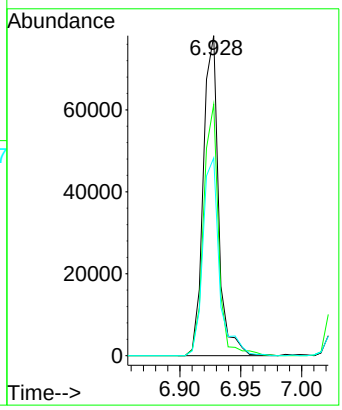




#15
Benzyl Alcohol
Concen: 5.634 ng
RT: 6.928 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF134537.D
Acq: 01 Aug 2023 08:22

Tgt Ion: 79 Resp: 6780

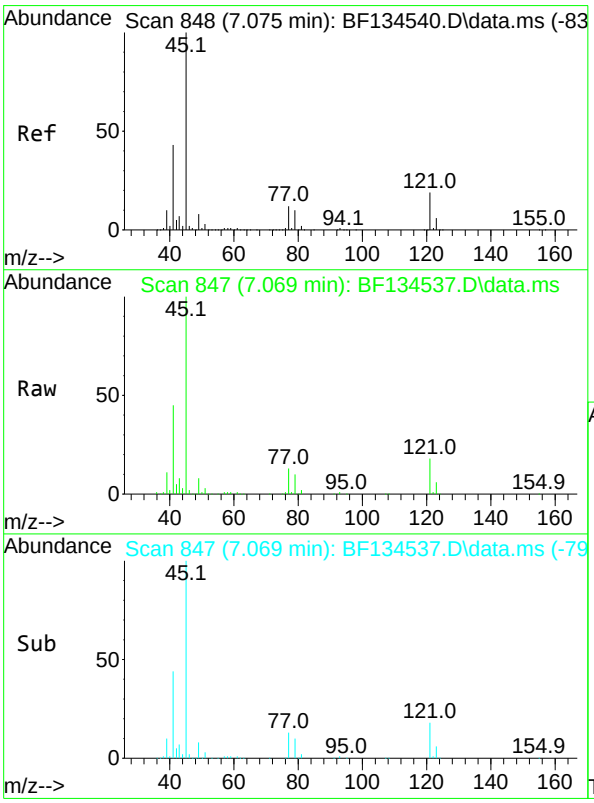
Ion	Ratio	Lower	Upper
79	100		
108	78.5	56.3	84.5
77	61.8	50.6	76.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

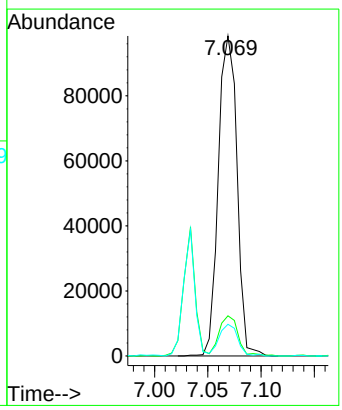
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

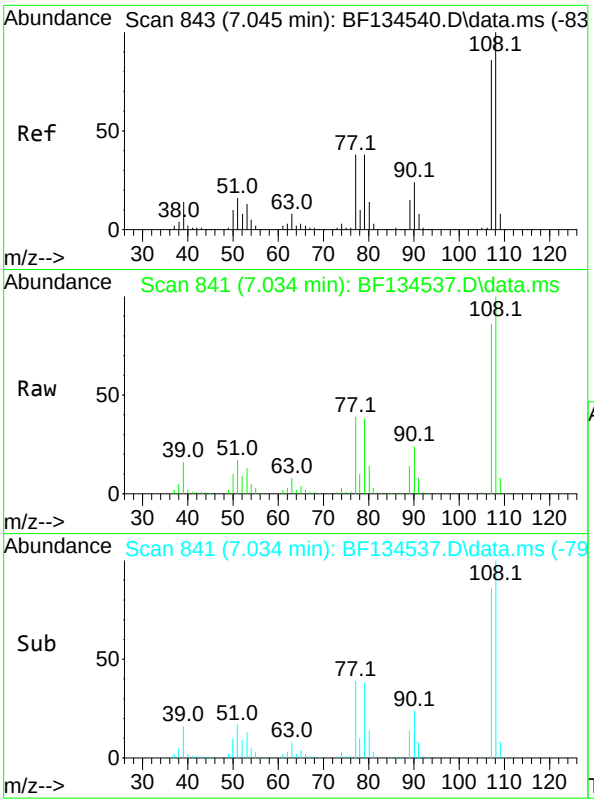


#16
2,2'-oxybis(1-Chloropropane)
Concen: 5.589 ng
RT: 7.069 min Scan# 847
Delta R.T. -0.006 min
Lab File: BF134537.D
Acq: 01 Aug 2023 08:22

Tgt Ion: 45 Resp: 119585

Ion	Ratio	Lower	Upper
45	100		
77	12.6	0.0	37.8
79	9.9	0.0	34.5

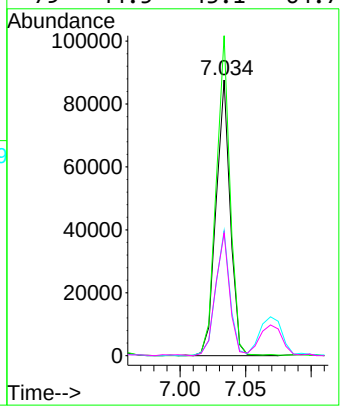




#17
2-Methylphenol
Concen: 5.417 ng
RT: 7.034 min Scan# 84
Delta R.T. -0.012 min
Lab File: BF134537.D
Acq: 01 Aug 2023 08:22

Tgt Ion:107 Resp: 6590

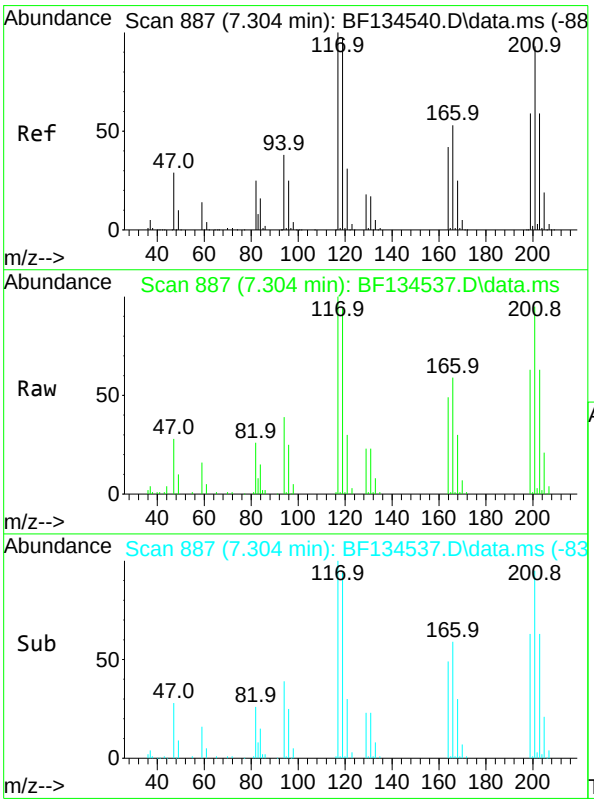
Ion	Ratio	Lower	Upper
107	100		
108	116.0	89.4	134.2
77	45.3	42.4	63.6
79	44.5	43.1	64.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

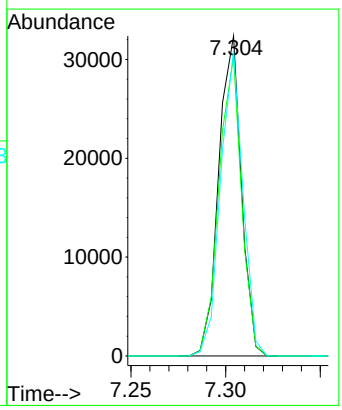
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

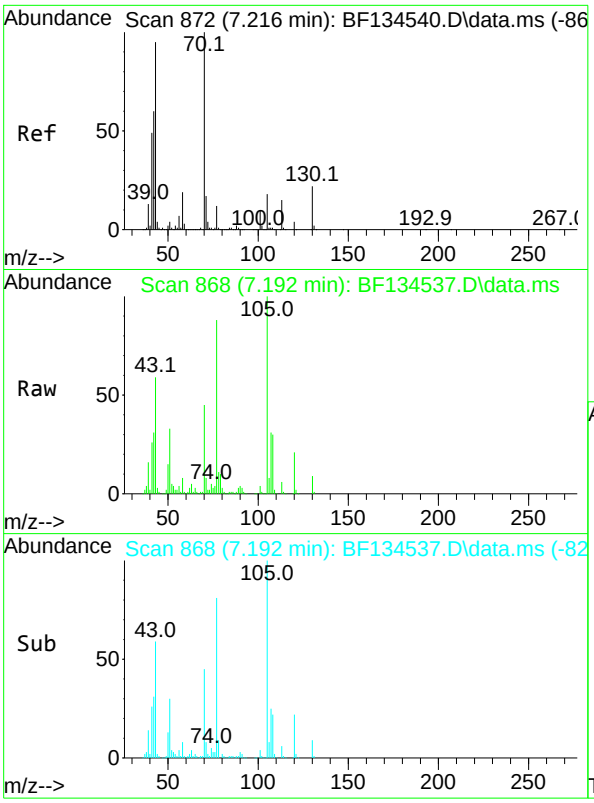


#18
Hexachloroethane
Concen: 5.369 ng
RT: 7.304 min Scan# 887
Delta R.T. 0.000 min
Lab File: BF134537.D
Acq: 01 Aug 2023 08:22

Tgt Ion:117 Resp: 26900

Ion	Ratio	Lower	Upper
117	100		
119	93.5	75.8	113.8
201	95.4	73.6	110.4

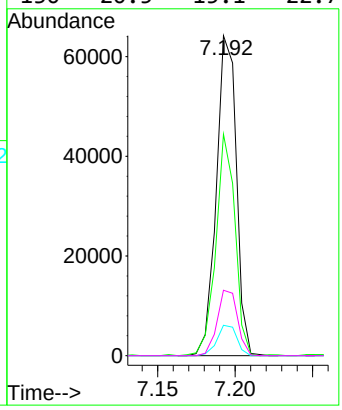




#19
n-Nitroso-di-n-propylamine
Concen: 5.527 ng
RT: 7.192 min Scan# 8
Delta R.T. -0.023 min
Lab File: BF134537.D
Acq: 01 Aug 2023 08:22

Tgt Ion: 70 Resp: 5773

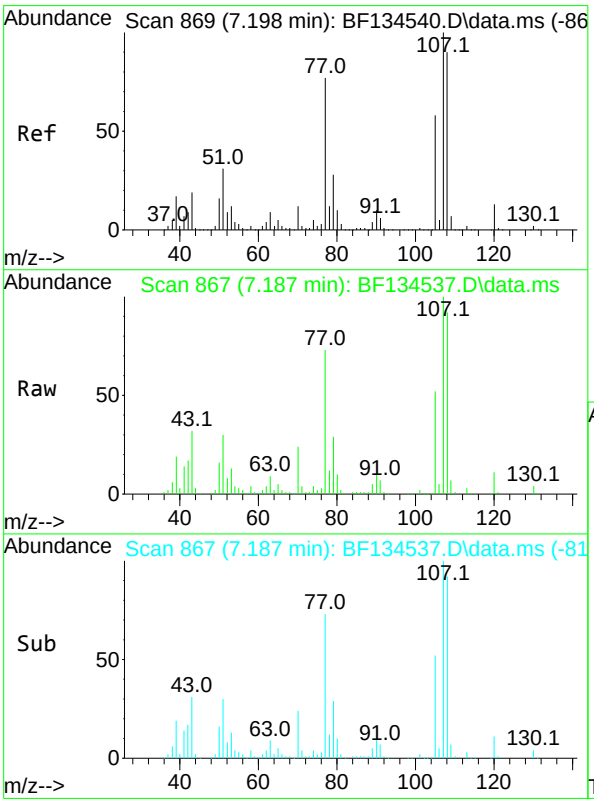
Ion	Ratio	Lower	Upper
70	100		
42	69.2	54.7	82.1
101	9.5	8.2	12.2
130	20.5	15.1	22.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

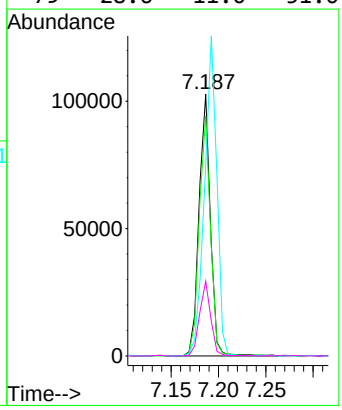
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

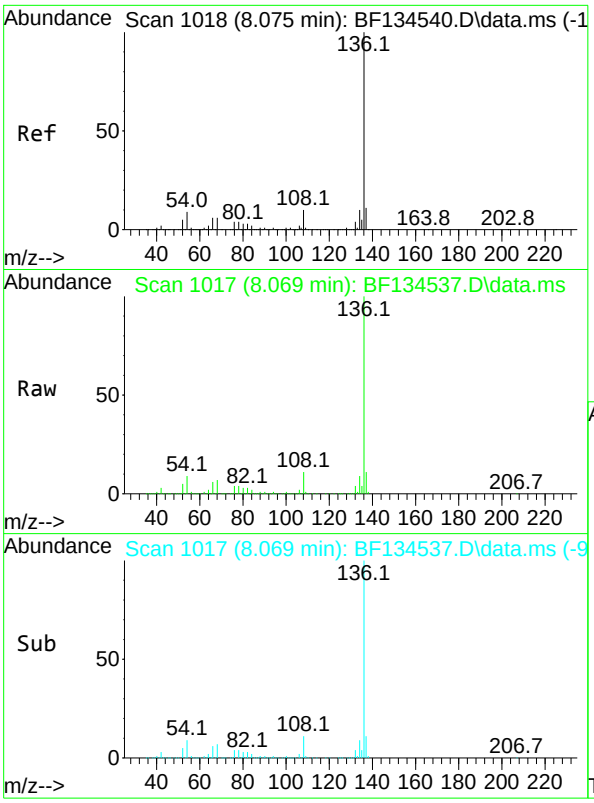


#20
3+4-Methylphenols
Concen: 5.872 ng
RT: 7.187 min Scan# 867
Delta R.T. -0.012 min
Lab File: BF134537.D
Acq: 01 Aug 2023 08:22

Tgt Ion:107 Resp: 86146

Ion	Ratio	Lower	Upper
107	100		
108	91.6	68.1	108.1
77	72.6	122.1	162.1#
79	28.6	11.0	51.0

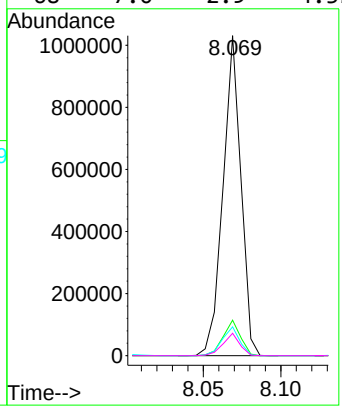




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.069 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF134537.D
Acq: 01 Aug 2023 08:22

Tgt Ion:136 Resp: 82778

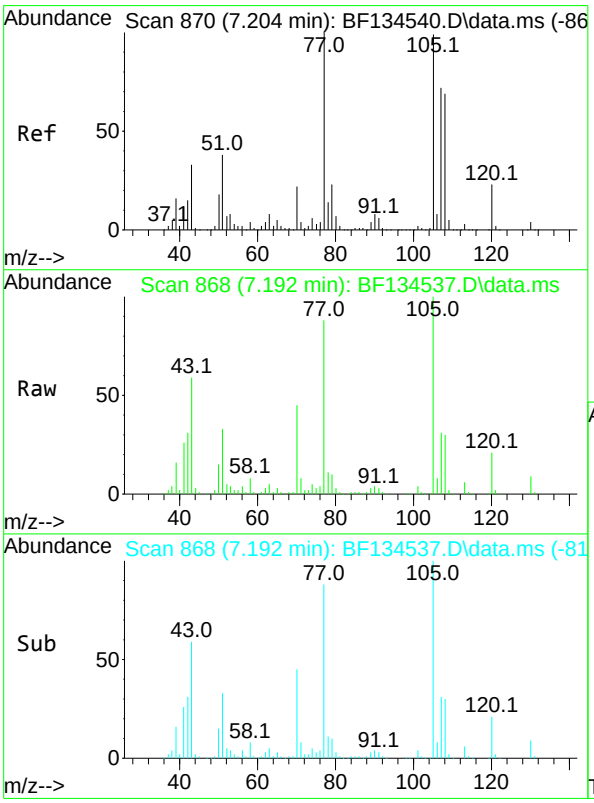
Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.4	12.6
54	9.0	5.2	7.8#
68	7.0	2.9	4.3#



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

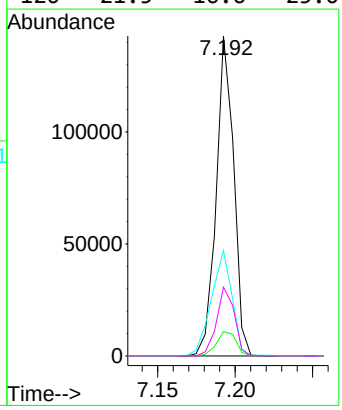
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

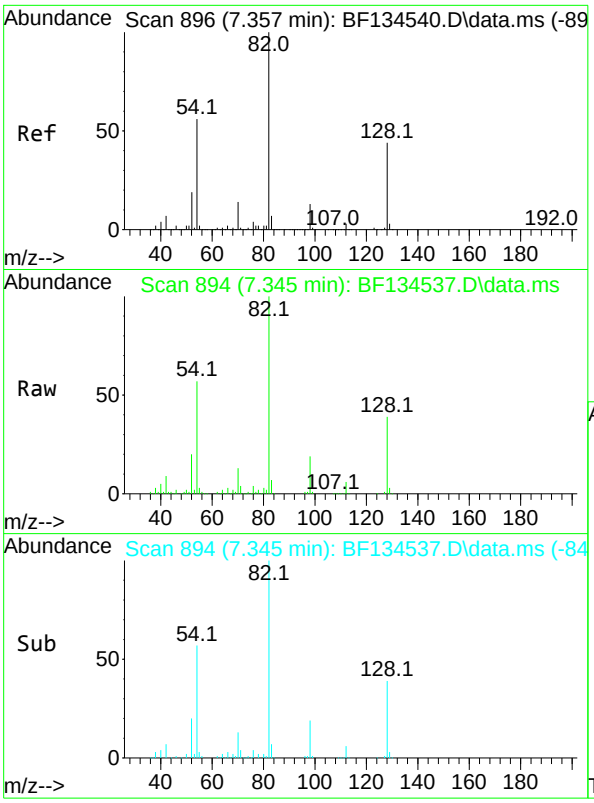


#22
Acetophenone
Concen: 5.865 ng
RT: 7.192 min Scan# 868
Delta R.T. -0.012 min
Lab File: BF134537.D
Acq: 01 Aug 2023 08:22

Tgt Ion:105 Resp: 112080

Ion	Ratio	Lower	Upper
105	100		
71	7.6	7.4	11.0
51	32.9	36.4	54.6#
120	21.5	16.6	25.0

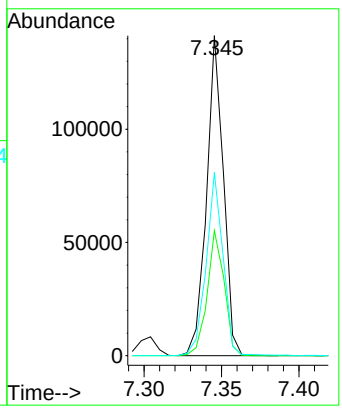




#23
Nitrobenzene-d5
Concen: 8.059 ng
RT: 7.345 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF134537.D
Acq: 01 Aug 2023 08:22

Tgt Ion: 82 Resp: 10674

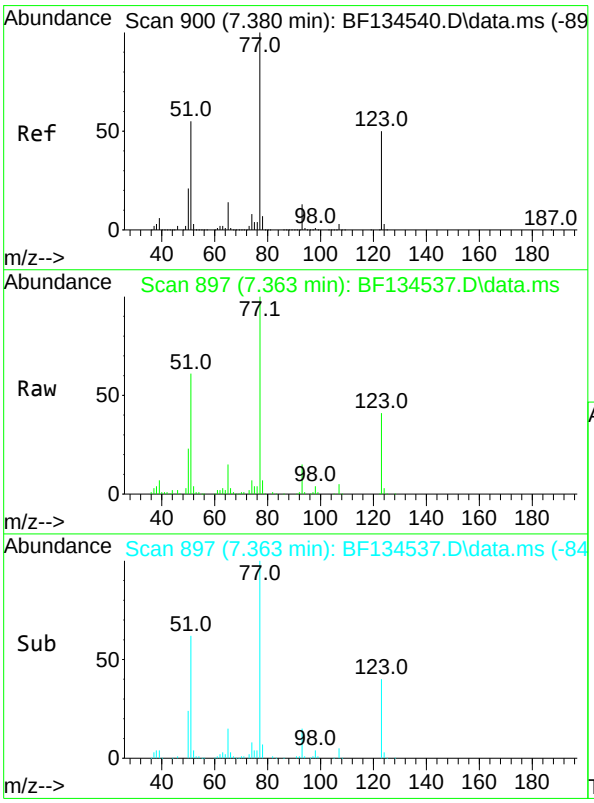
Ion	Ratio	Lower	Upper
82	100		
128	39.1	34.3	51.5
54	57.3	43.8	65.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

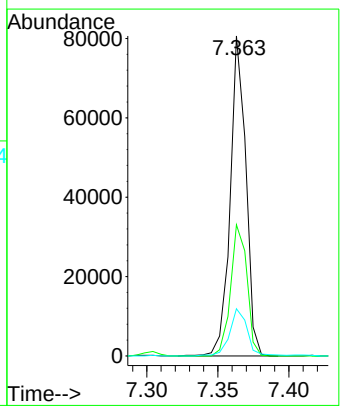
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

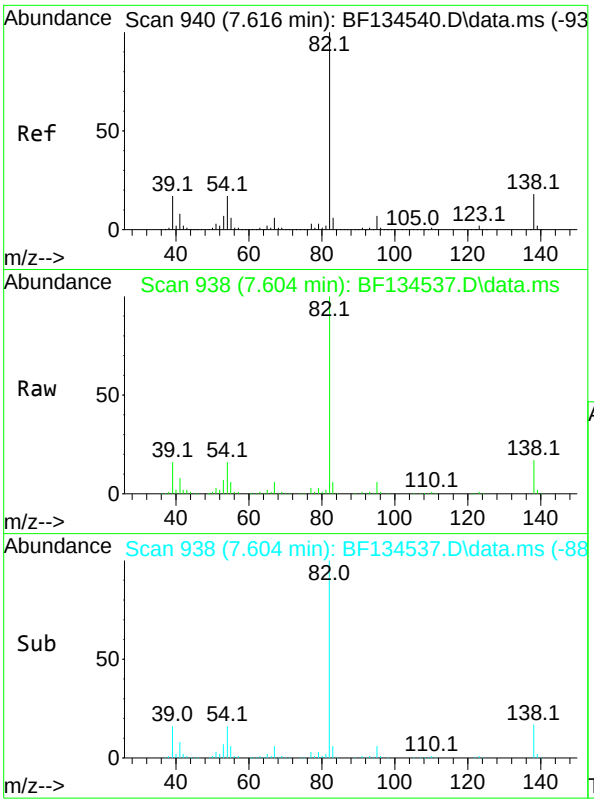


#24
Nitrobenzene
Concen: 4.318 ng
RT: 7.363 min Scan# 897
Delta R.T. -0.017 min
Lab File: BF134537.D
Acq: 01 Aug 2023 08:22

Tgt Ion: 77 Resp: 61796

Ion	Ratio	Lower	Upper
77	100		
123	41.0	35.5	53.3
65	14.8	11.9	17.9

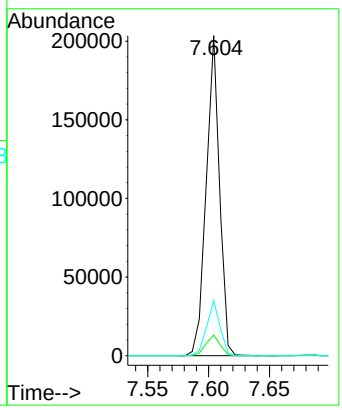




#25
Isophorone
Concen: 5.329 ng
RT: 7.604 min Scan# 9
Delta R.T. -0.012 min
Lab File: BF134537.D
Acq: 01 Aug 2023 08:22

Tgt Ion: 82 Resp: 15396

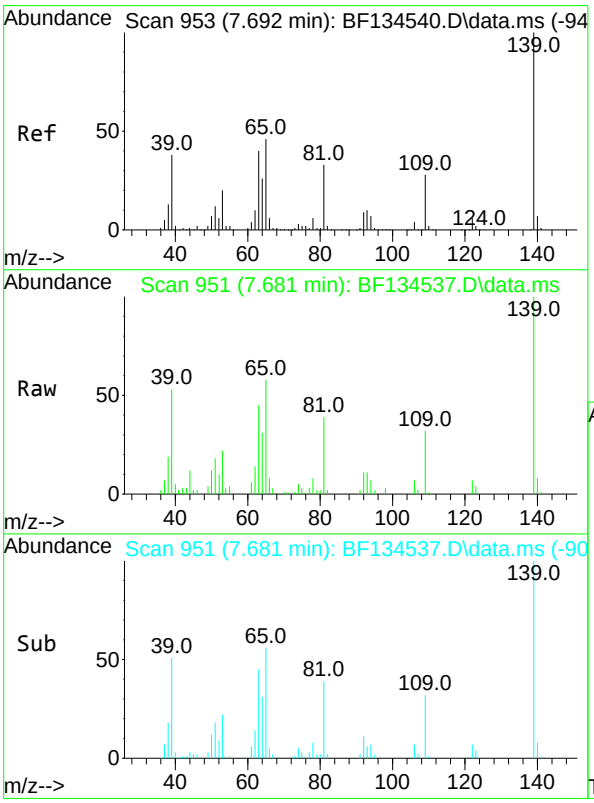
Ion	Ratio	Lower	Upper
82	100		
95	6.5	6.0	9.0
138	17.2	14.6	22.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

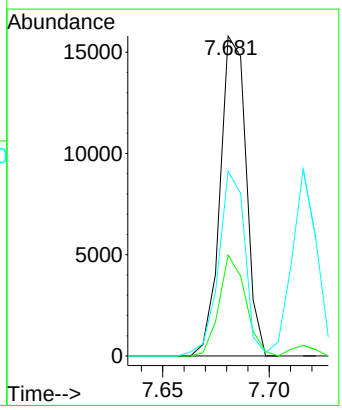
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

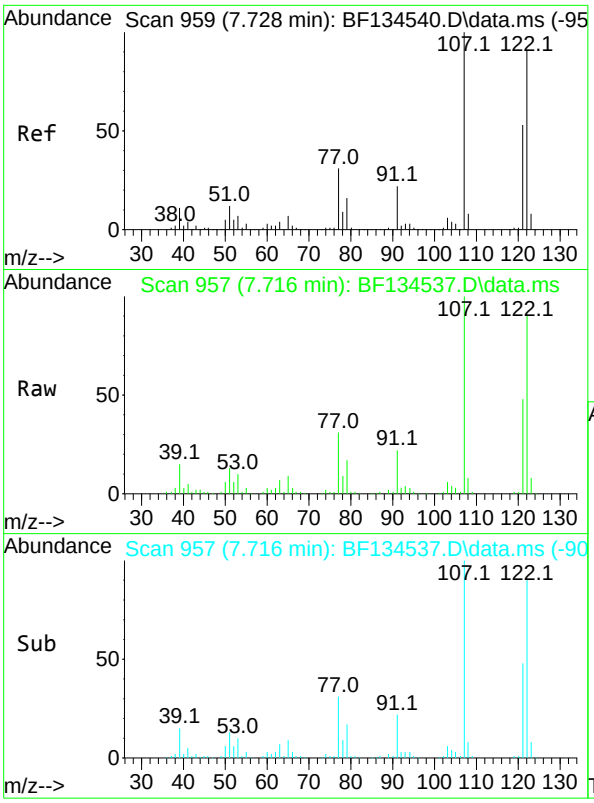


#26
2-Nitrophenol
Concen: 6.774 ng
RT: 7.681 min Scan# 951
Delta R.T. -0.011 min
Lab File: BF134537.D
Acq: 01 Aug 2023 08:22

Tgt Ion:139 Resp: 13407

Ion	Ratio	Lower	Upper
139	100		
109	31.6	29.8	44.6
65	57.7	45.4	68.2

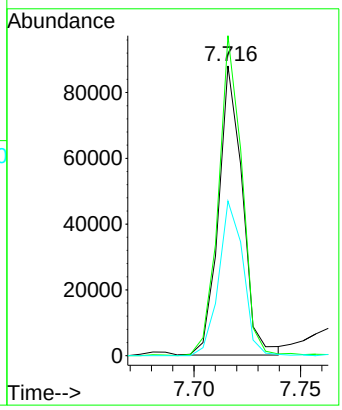




#27
2,4-Dimethylphenol
Concen: 5.305 ng
RT: 7.716 min Scan# 9
Delta R.T. -0.012 min
Lab File: BF134537.D
Acq: 01 Aug 2023 08:22

Tgt Ion:122 Resp: 6838

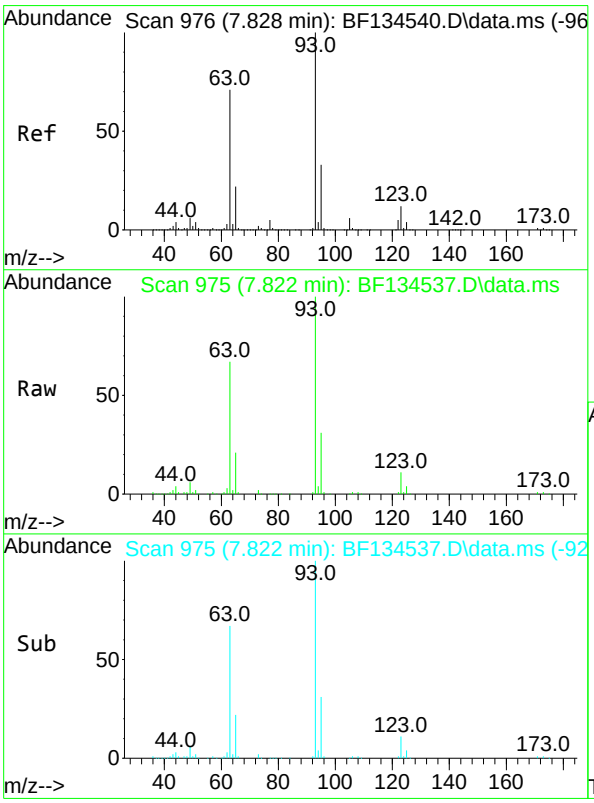
Ion	Ratio	Lower	Upper
122	100		
107	110.4	106.7	160.1
121	53.3	49.0	73.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

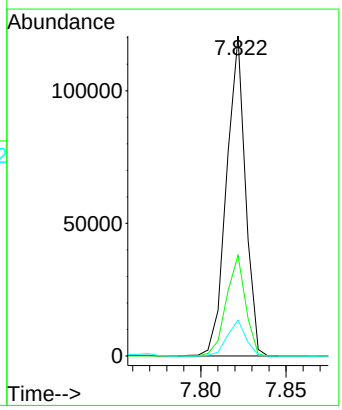
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

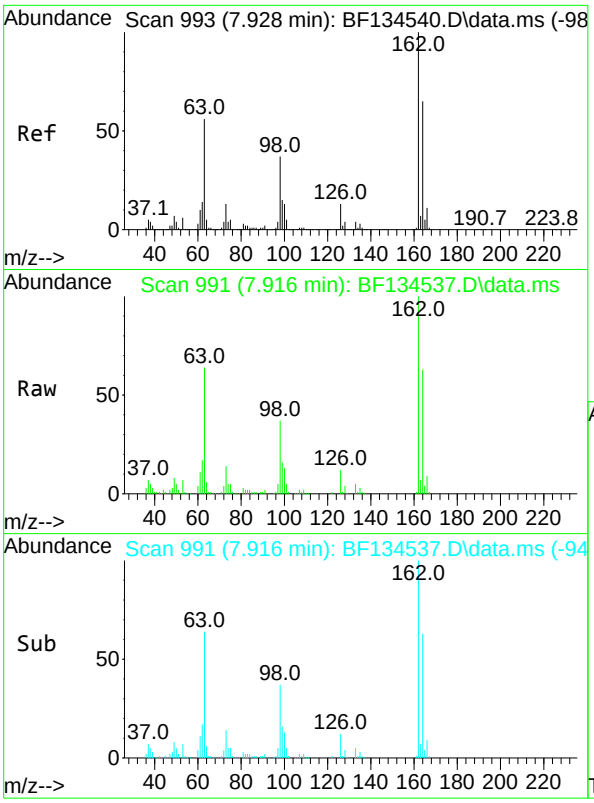


#28
bis(2-Chloroethoxy)methane
Concen: 5.382 ng
RT: 7.822 min Scan# 975
Delta R.T. -0.006 min
Lab File: BF134537.D
Acq: 01 Aug 2023 08:22

Tgt Ion: 93 Resp: 93021

Ion	Ratio	Lower	Upper
93	100		
95	31.4	26.5	39.7
123	11.2	9.6	14.4

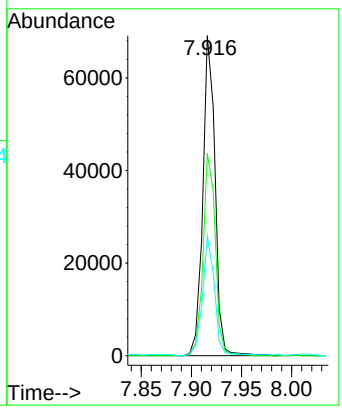




#29
2,4-Dichlorophenol
Concen: 5.033 ng
RT: 7.916 min Scan# 9
Delta R.T. -0.012 min
Lab File: BF134537.D
Acq: 01 Aug 2023 08:22

Tgt Ion:162 Resp: 5889

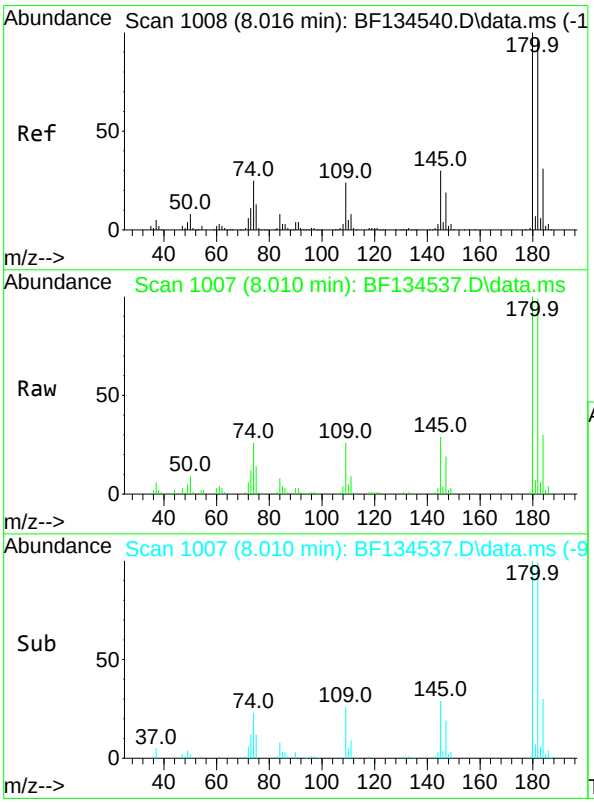
Ion	Ratio	Lower	Upper
162	100		
164	63.1	42.2	82.2
98	37.3	15.5	55.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

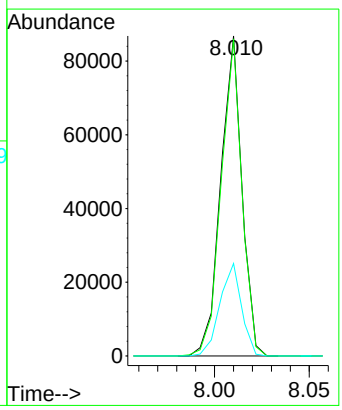
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

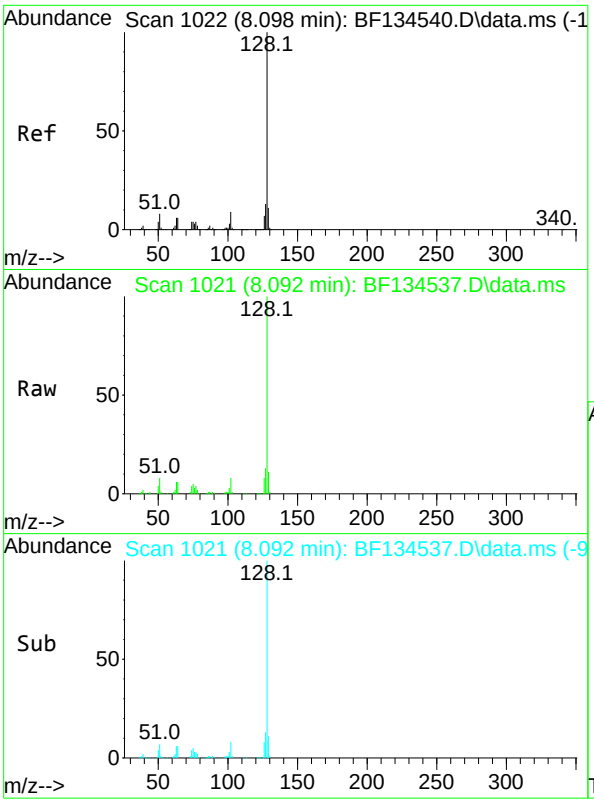


#30
1,2,4-Trichlorobenzene
Concen: 5.402 ng
RT: 8.010 min Scan# 1007
Delta R.T. -0.006 min
Lab File: BF134537.D
Acq: 01 Aug 2023 08:22

Tgt Ion:180 Resp: 67395

Ion	Ratio	Lower	Upper
180	100		
182	99.1	75.0	112.6
145	28.9	25.5	38.3

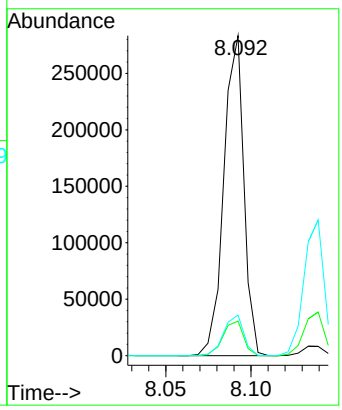




#31
Naphthalene
Concen: 5.576 ng
RT: 8.092 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF134537.D
Acq: 01 Aug 2023 08:22

Tgt Ion:128 Resp: 23195

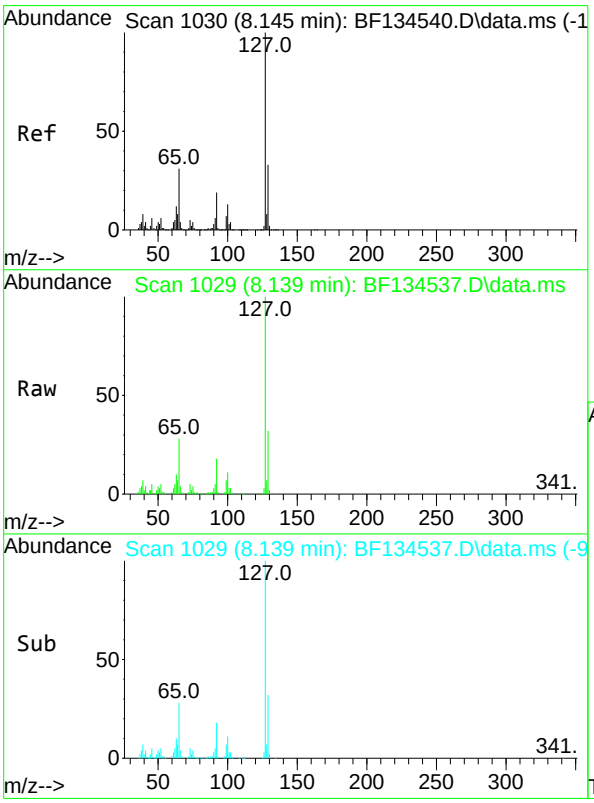
Ion	Ratio	Lower	Upper
128	100		
129	10.8	8.4	12.6
127	12.7	10.7	16.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

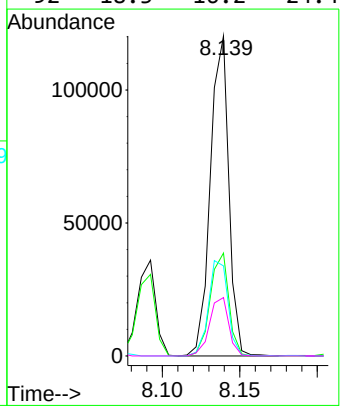
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

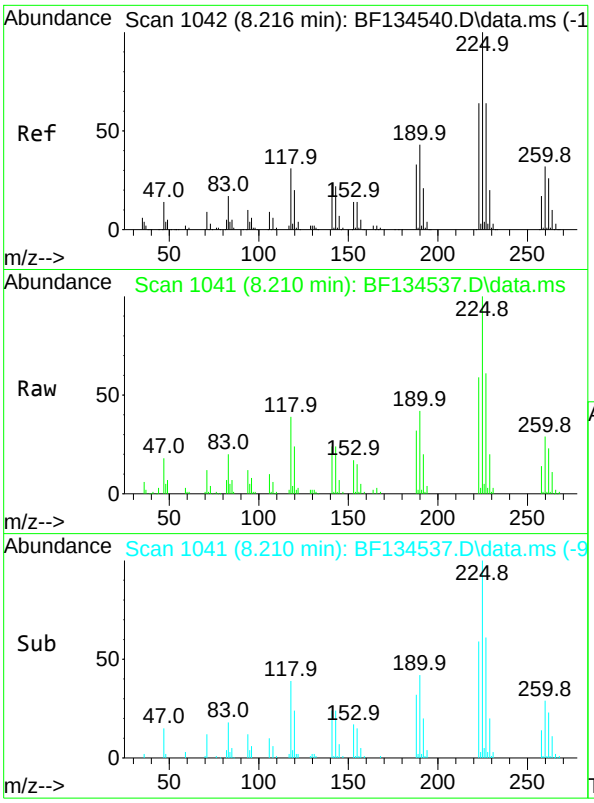


#33
4-Chloroaniline
Concen: 5.373 ng
RT: 8.139 min Scan# 1029
Delta R.T. -0.006 min
Lab File: BF134537.D
Acq: 01 Aug 2023 08:22

Tgt Ion:127 Resp: 99595

Ion	Ratio	Lower	Upper
127	100		
129	32.1	25.6	38.4
65	28.2	25.4	38.0
92	18.3	16.2	24.4

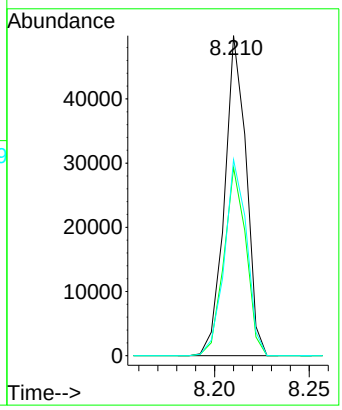




#34
Hexachlorobutadiene
Concen: 5.494 ng
RT: 8.210 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF134537.D
Acq: 01 Aug 2023 08:22

Tgt Ion:225 Resp: 3953

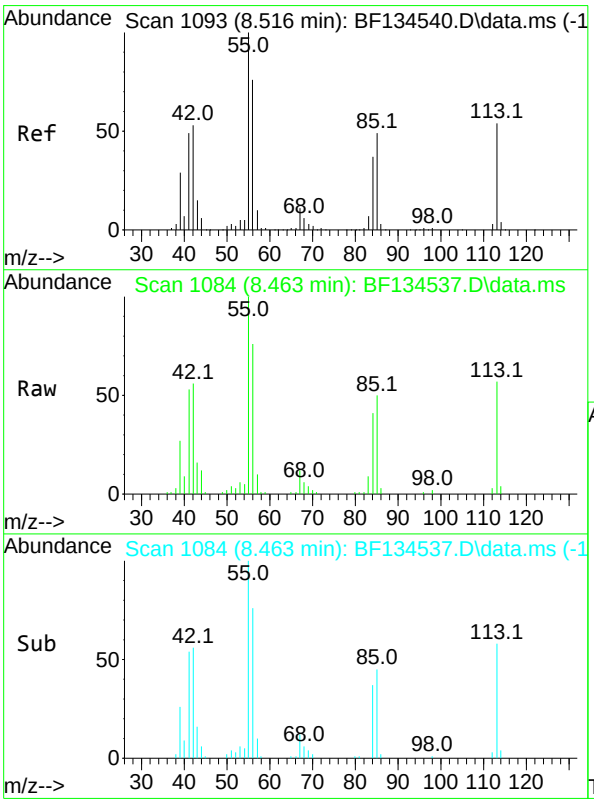
Ion	Ratio	Lower	Upper
225	100		
223	58.7	48.2	72.4
227	61.2	48.5	72.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

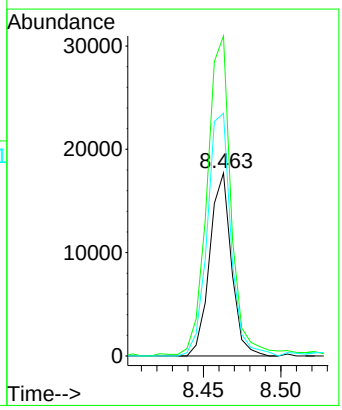
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

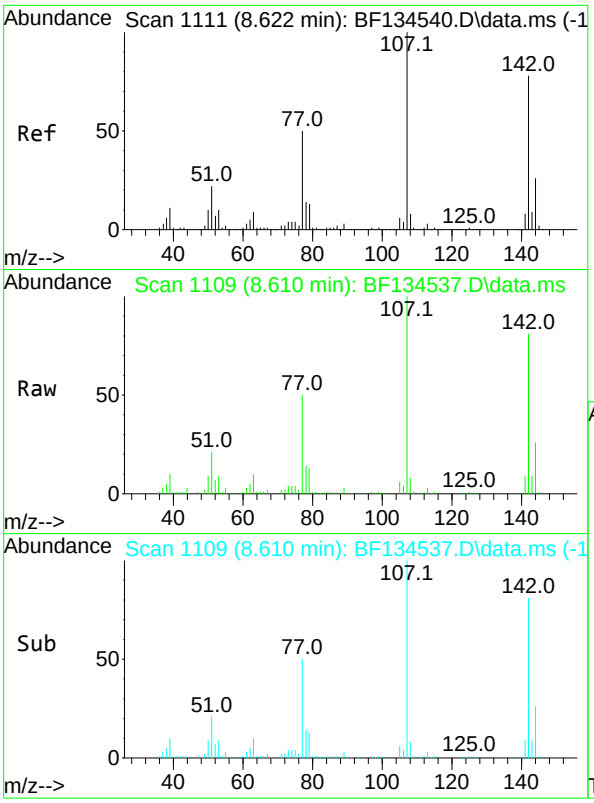


#35
Caprolactam
Concen: 4.566 ng
RT: 8.463 min Scan# 1084
Delta R.T. -0.053 min
Lab File: BF134537.D
Acq: 01 Aug 2023 08:22

Tgt Ion:113 Resp: 17241

Ion	Ratio	Lower	Upper
113	100		
55	174.9	161.5	201.5
56	132.7	117.8	157.8

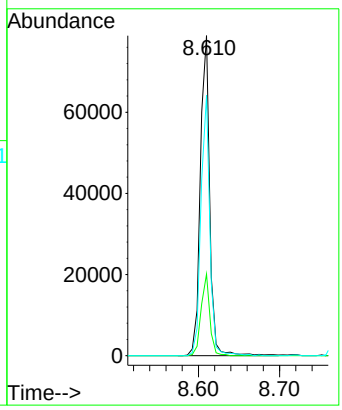




#36
4-Chloro-3-methylphenol
Concen: 5.120 ng
RT: 8.610 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF134537.D
Acq: 01 Aug 2023 08:22

Tgt Ion:107 Resp: 6343

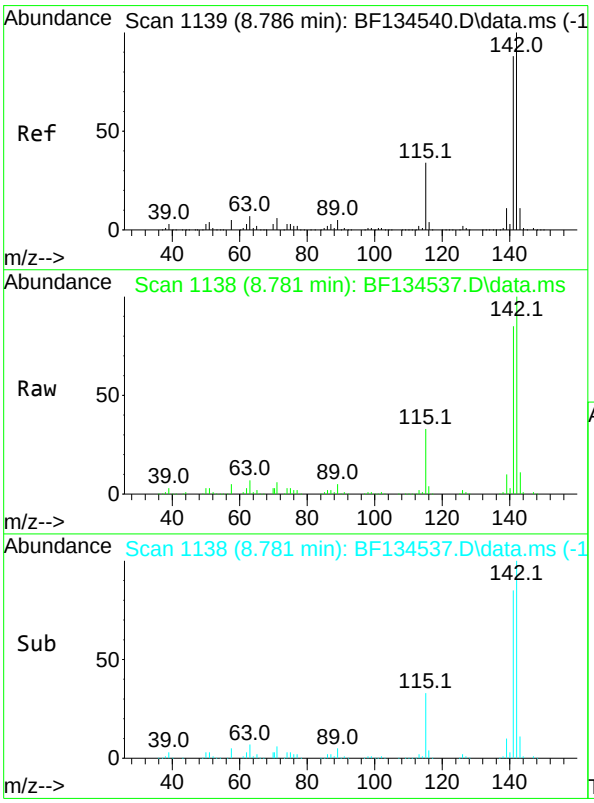
Ion	Ratio	Lower	Upper
107	100		
144	25.5	19.6	29.4
142	81.3	57.7	86.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

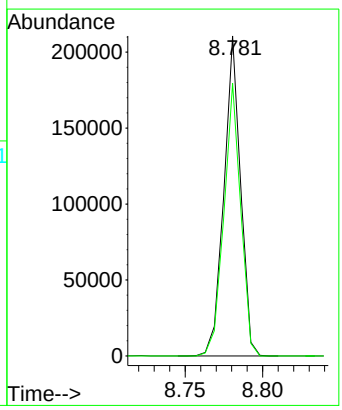
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

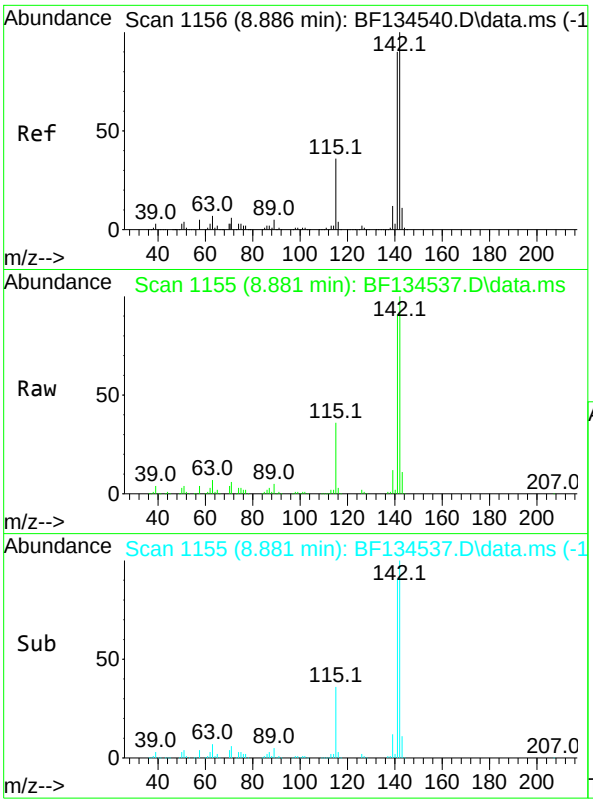


#37
2-Methylnaphthalene
Concen: 5.704 ng
RT: 8.781 min Scan# 1138
Delta R.T. -0.006 min
Lab File: BF134537.D
Acq: 01 Aug 2023 08:22

Tgt Ion:142 Resp: 157289

Ion	Ratio	Lower	Upper
142	100		
141	85.2	70.8	106.2

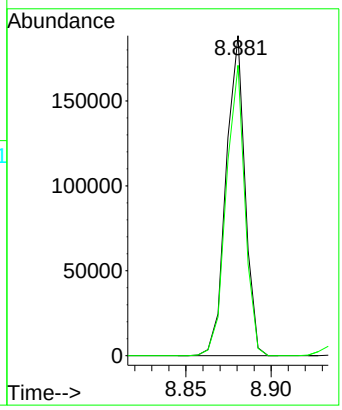




#38
1-Methylnaphthalene
Concen: 5.673 ng
RT: 8.881 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF134537.D
Acq: 01 Aug 2023 08:22

Tgt Ion:142 Resp: 14547

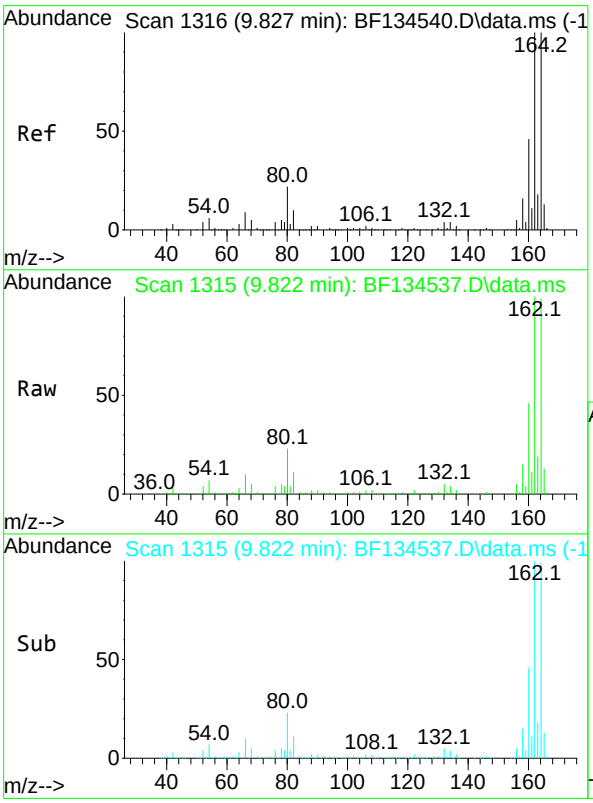
Ion	Ratio	Lower	Upper
142	100		
141	90.7	71.4	107.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

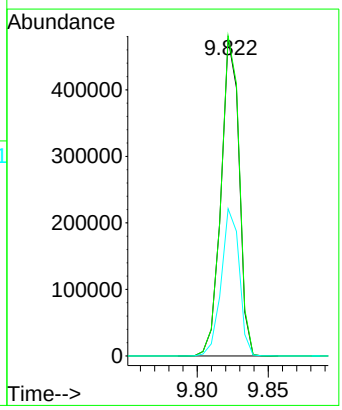
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

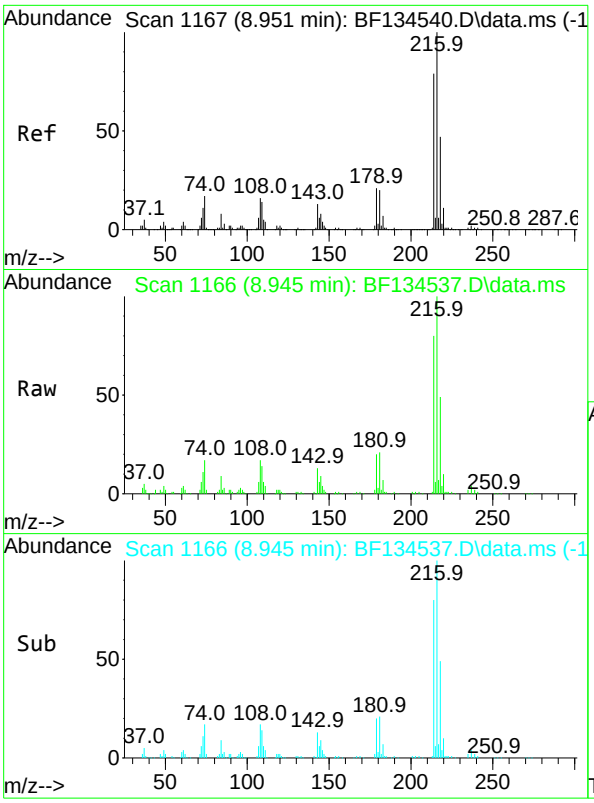


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.822 min Scan# 1315
Delta R.T. -0.006 min
Lab File: BF134537.D
Acq: 01 Aug 2023 08:22

Tgt Ion:164 Resp: 421573

Ion	Ratio	Lower	Upper
164	100		
162	100.9	82.6	123.8
160	46.4	37.2	55.8

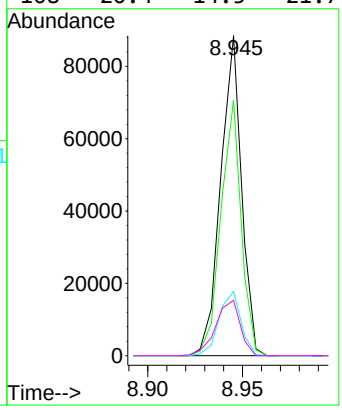




#40
1,2,4,5-Tetrachlorobenzene
Concen: 5.535 ng
RT: 8.945 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF134537.D
Acq: 01 Aug 2023 08:22

Tgt Ion:216 Resp: 6784

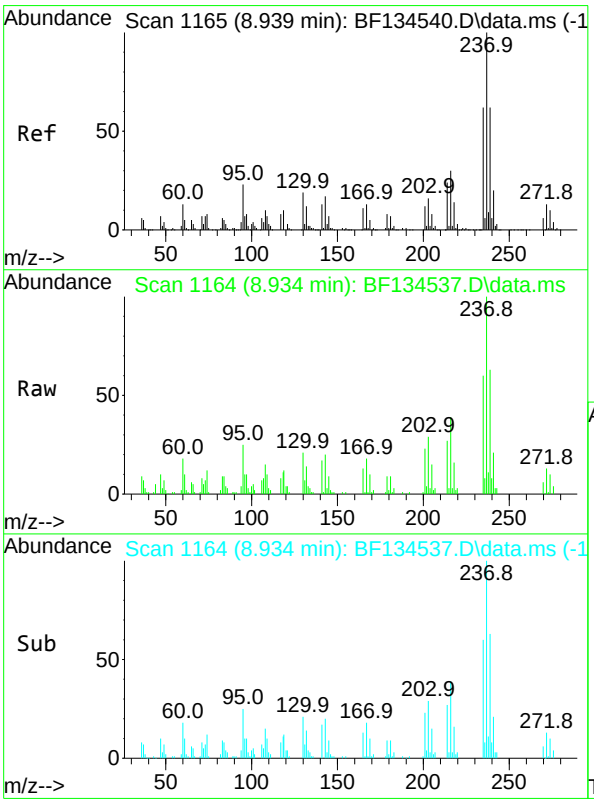
Ion	Ratio	Lower	Upper
216	100		
214	77.6	62.3	93.5
179	21.1	17.4	26.0
108	20.4	14.5	21.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

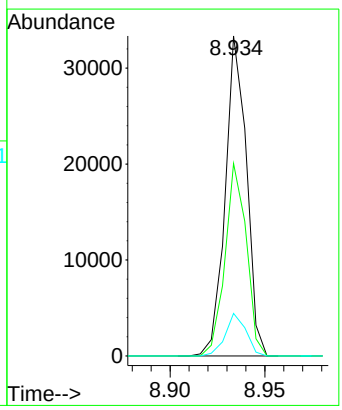
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

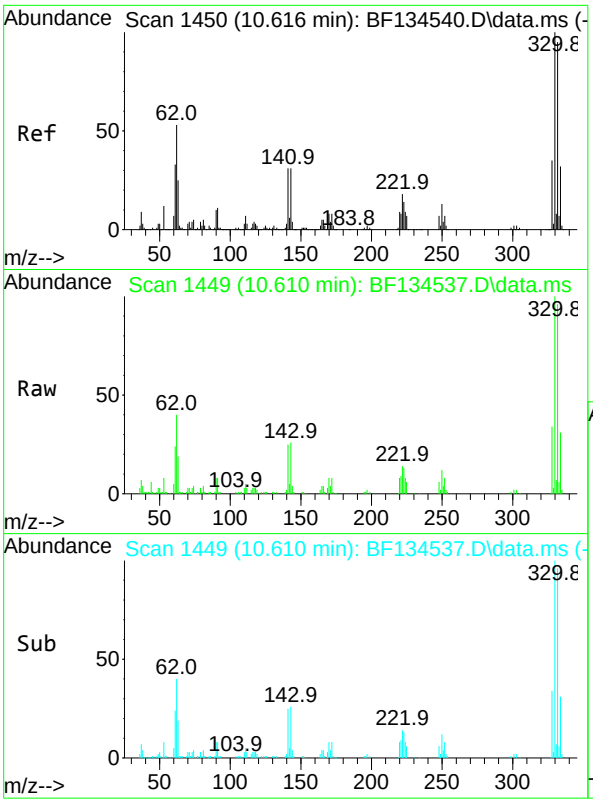


#41
Hexachlorocyclopentadiene
Concen: 4.360 ng
RT: 8.934 min Scan# 1164
Delta R.T. -0.006 min
Lab File: BF134537.D
Acq: 01 Aug 2023 08:22

Tgt Ion:237 Resp: 25989

Ion	Ratio	Lower	Upper
237	100		
235	60.2	37.0	77.0
272	13.3	0.0	32.7

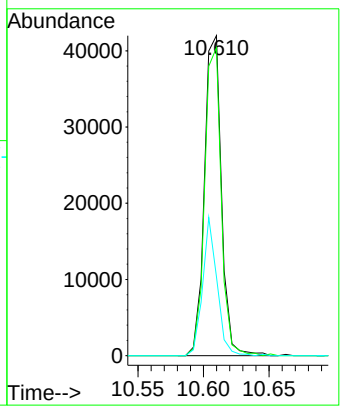




#42
2,4,6-Tribromophenol
Concen: 8.839 ng
RT: 10.610 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF134537.D
Acq: 01 Aug 2023 08:22

Tgt Ion:330 Resp: 3798

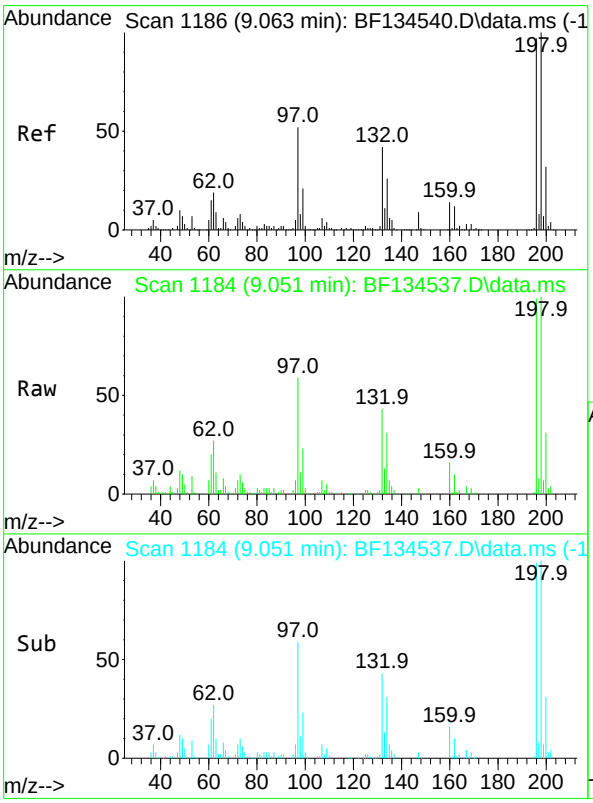
Ion	Ratio	Lower	Upper
330	100		
332	93.8	78.8	118.2
141	36.7	25.4	38.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

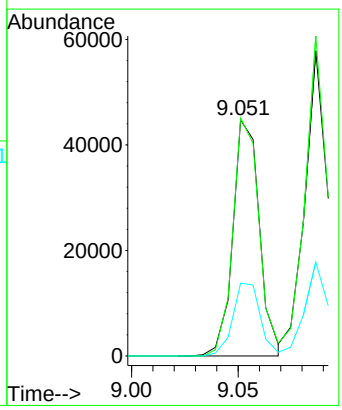
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

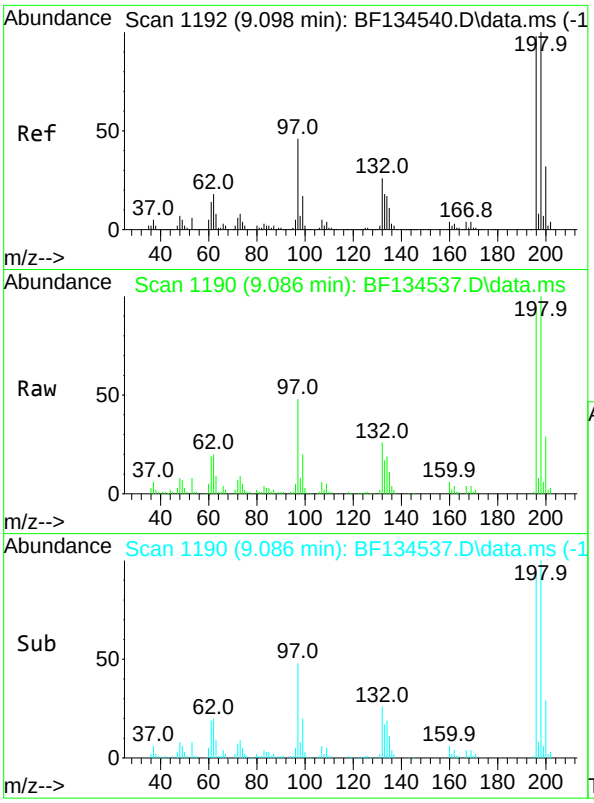


#43
2,4,6-Trichlorophenol
Concen: 4.824 ng
RT: 9.051 min Scan# 1184
Delta R.T. -0.012 min
Lab File: BF134537.D
Acq: 01 Aug 2023 08:22

Tgt Ion:196 Resp: 38702

Ion	Ratio	Lower	Upper
196	100		
198	100.8	77.4	116.2
200	30.9	25.4	38.2

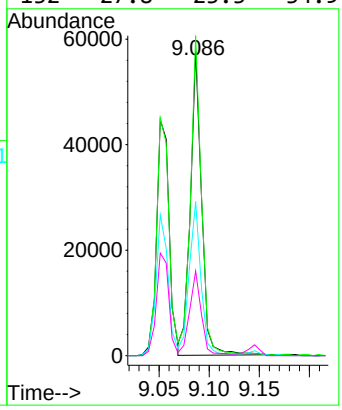




#44
2,4,5-Trichlorophenol
Concen: 4.938 ng
RT: 9.086 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF134537.D
Acq: 01 Aug 2023 08:22

Tgt Ion:196 Resp: 4528

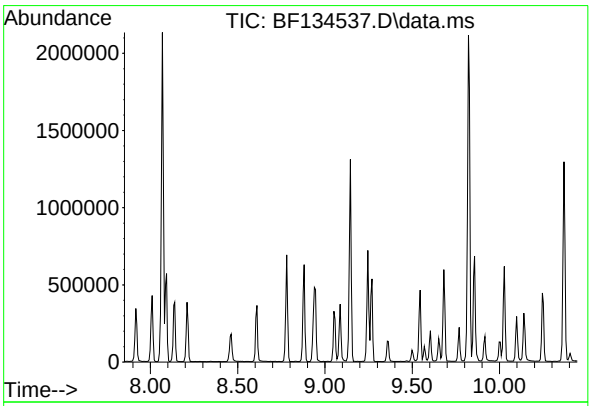
Ion	Ratio	Lower	Upper
196	100		
198	104.9	73.0	109.4
97	50.5	40.8	61.2
132	27.8	23.3	34.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

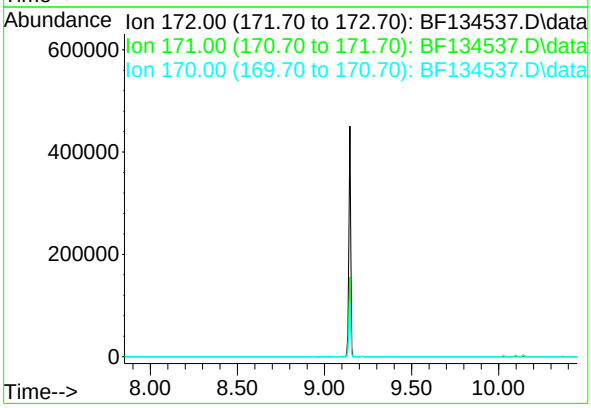


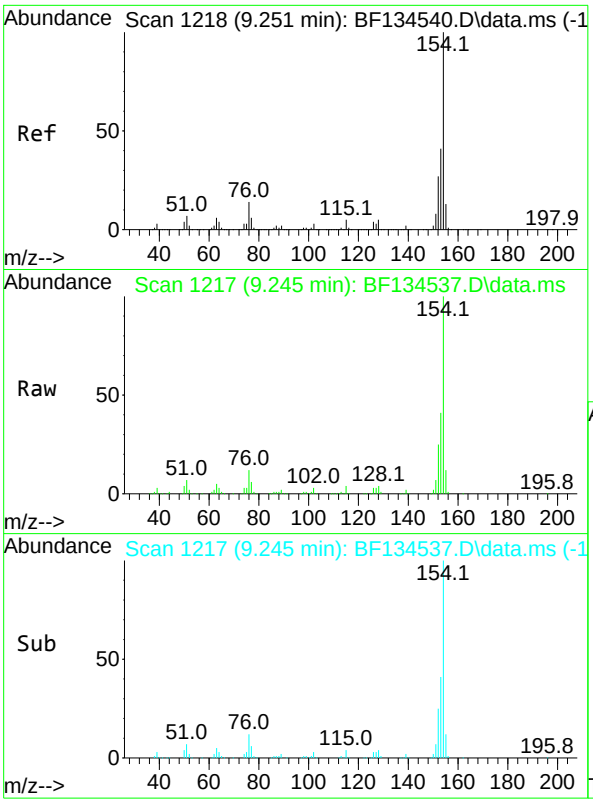
#45
2-Fluorobiphenyl
Concen: 0.000 ng
Expected RT: 9.15 min

Lab File: BF134537.D
Acq: 01 Aug 2023 08:22

Tgt Ion: 172

Sig	Exp Ratio
172	100
171	36.0
170	23.4

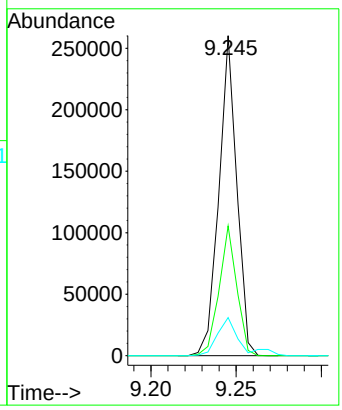




#46
1,1'-Biphenyl
Concen: 5.795 ng
RT: 9.245 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF134537.D
Acq: 01 Aug 2023 08:22

Tgt Ion:154 Resp: 18997

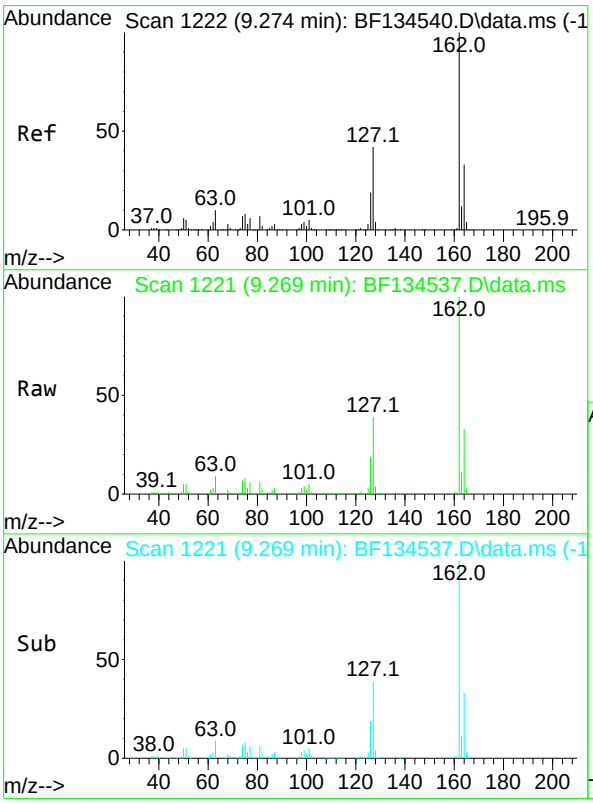
Ion	Ratio	Lower	Upper
154	100		
153	40.5	20.8	60.8
76	11.9	0.0	30.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

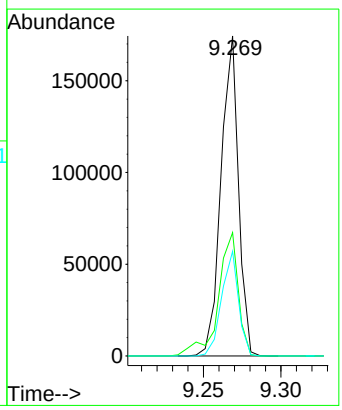
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

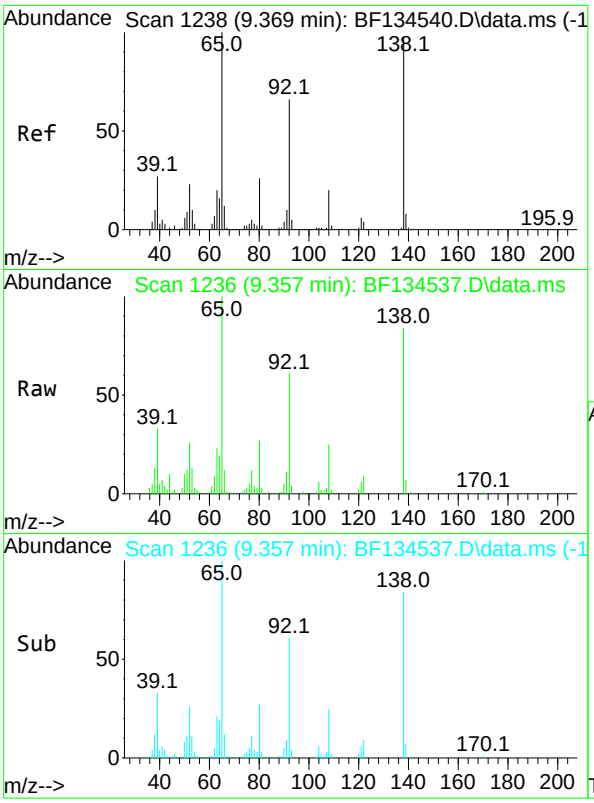


#47
2-Chloronaphthalene
Concen: 5.549 ng
RT: 9.269 min Scan# 1221
Delta R.T. -0.006 min
Lab File: BF134537.D
Acq: 01 Aug 2023 08:22

Tgt Ion:162 Resp: 136300

Ion	Ratio	Lower	Upper
162	100		
127	38.5	34.0	51.0
164	32.7	25.7	38.5

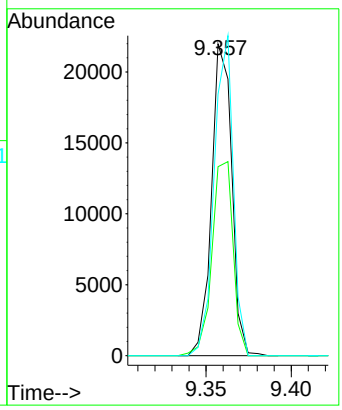




#48
2-Nitroaniline
Concen: 5.380 ng
RT: 9.357 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF134537.D
Acq: 01 Aug 2023 08:22

Tgt Ion: 65 Resp: 1815

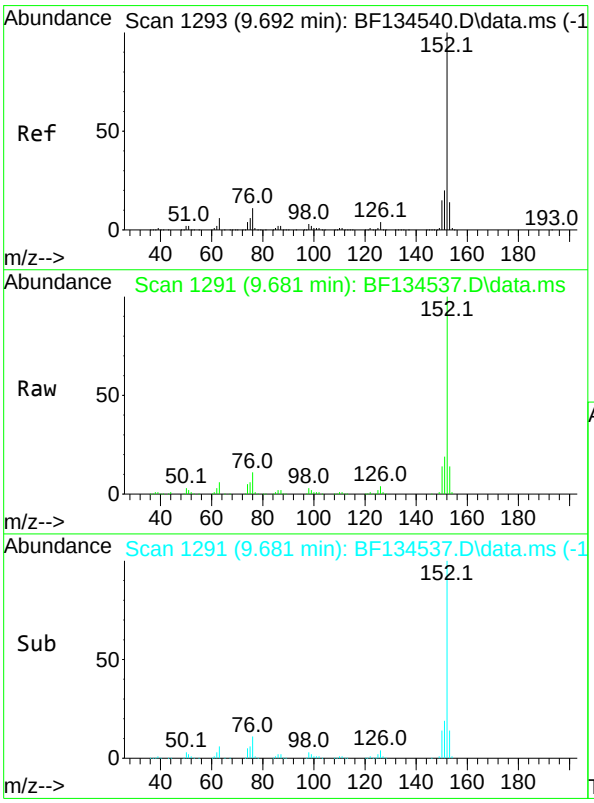
Ion	Ratio	Lower	Upper
65	100		
92	60.6	50.7	76.1
138	83.9	78.2	117.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

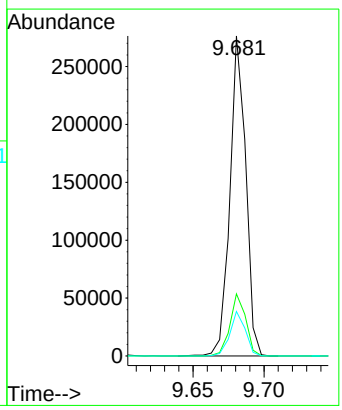
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

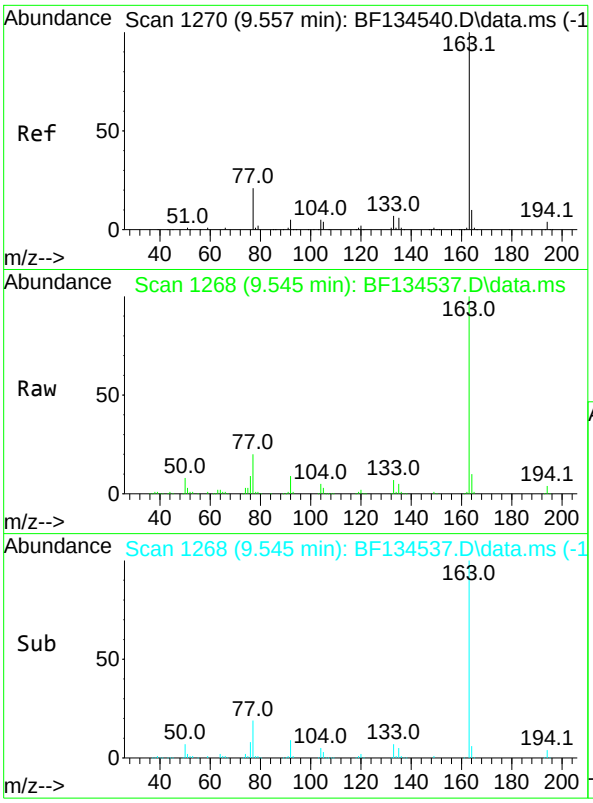


#49
Acenaphthylene
Concen: 5.563 ng
RT: 9.681 min Scan# 1291
Delta R.T. -0.012 min
Lab File: BF134537.D
Acq: 01 Aug 2023 08:22

Tgt Ion:152 Resp: 214791

Ion	Ratio	Lower	Upper
152	100		
151	19.4	16.4	24.6
153	13.9	10.9	16.3

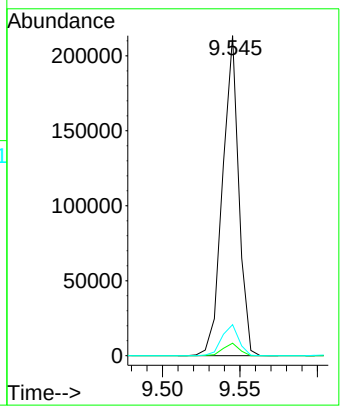




#50
Dimethylphthalate
Concen: 5.399 ng
RT: 9.545 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF134537.D
Acq: 01 Aug 2023 08:22

Tgt Ion:163 Resp: 15513

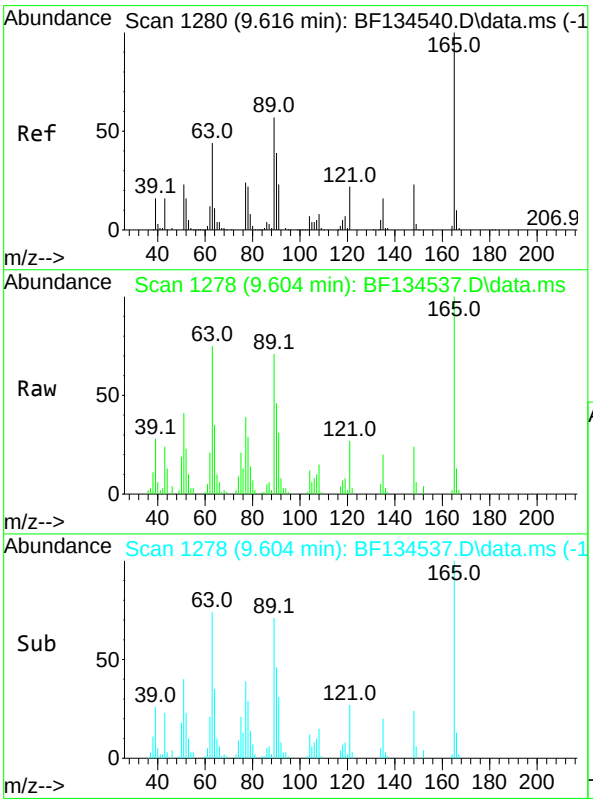
Ion	Ratio	Lower	Upper
163	100		
194	3.9	3.3	4.9
164	9.7	7.5	11.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

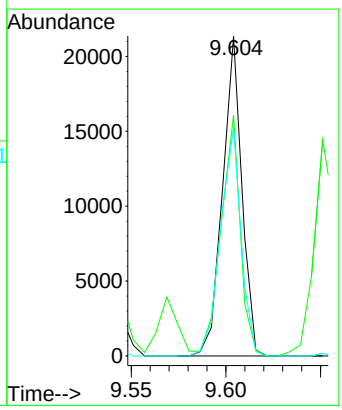
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

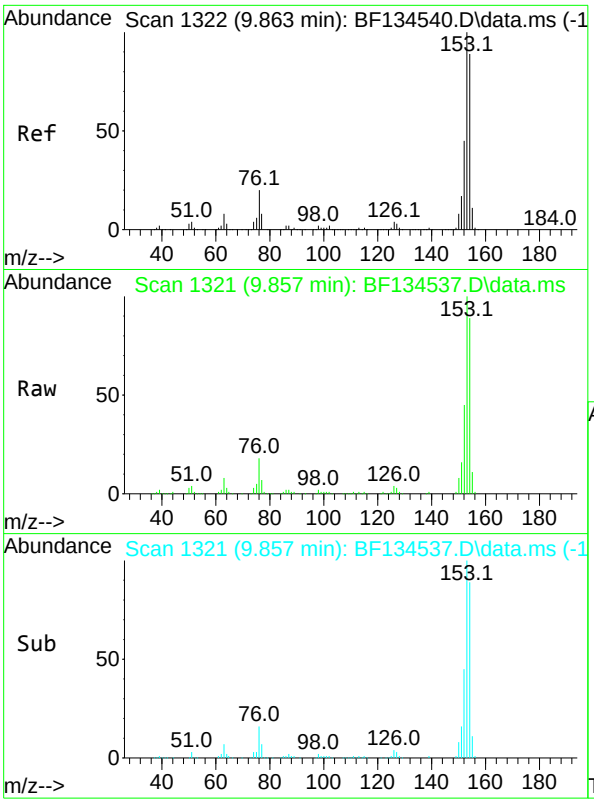


#51
2,6-Dinitrotoluene
Concen: 4.937 ng
RT: 9.604 min Scan# 1278
Delta R.T. -0.012 min
Lab File: BF134537.D
Acq: 01 Aug 2023 08:22

Tgt Ion:165 Resp: 15162

Ion	Ratio	Lower	Upper
165	100		
63	75.3	57.8	86.6
89	71.3	51.8	77.8

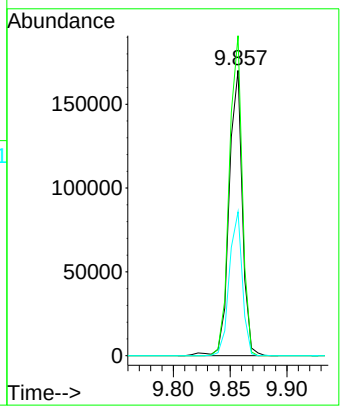




#52
Acenaphthene
Concen: 5.491 ng
RT: 9.857 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF134537.D
Acq: 01 Aug 2023 08:22

Tgt Ion:154 Resp: 13738

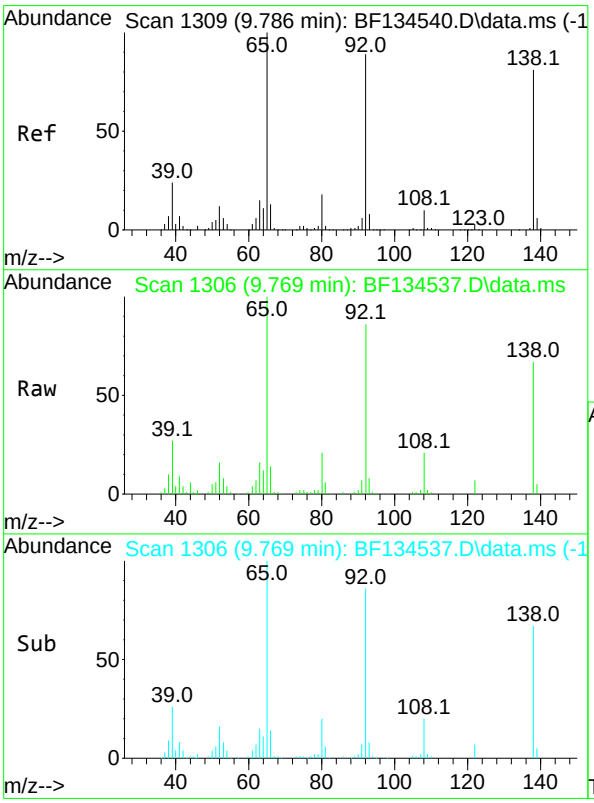
Ion	Ratio	Lower	Upper
154	100		
153	112.1	90.0	135.0
152	50.4	42.4	63.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

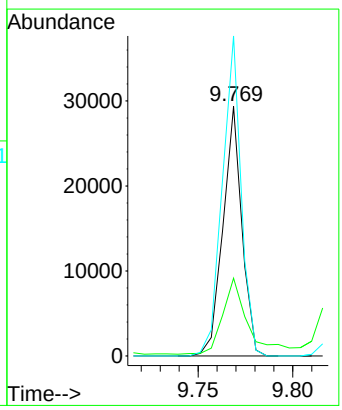
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

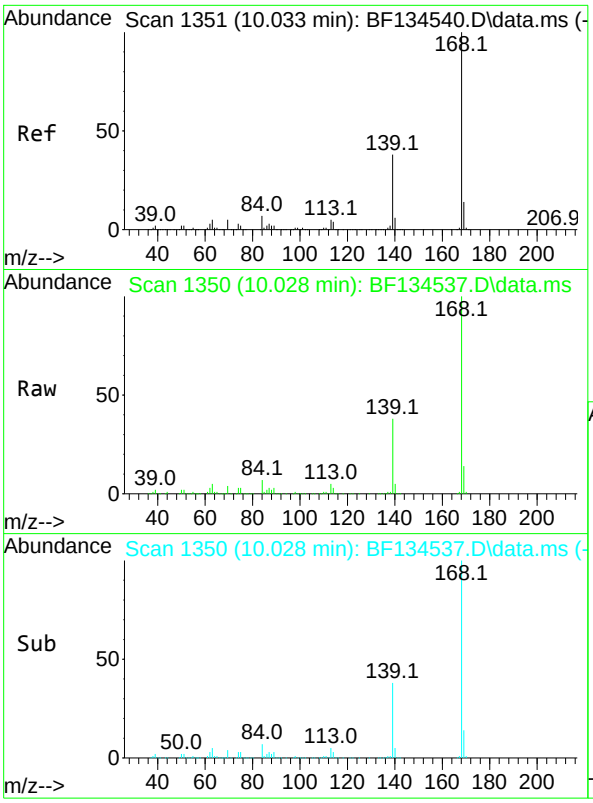


#53
3-Nitroaniline
Concen: 3.183 ng
RT: 9.769 min Scan# 1306
Delta R.T. -0.017 min
Lab File: BF134537.D
Acq: 01 Aug 2023 08:22

Tgt Ion:138 Resp: 20385

Ion	Ratio	Lower	Upper
138	100		
108	31.2	9.3	13.9#
92	128.2	86.6	129.8

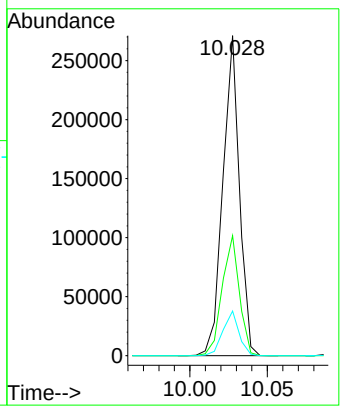




#55
Dibenzofuran
Concen: 5.640 ng
RT: 10.028 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF134537.D
Acq: 01 Aug 2023 08:22

Tgt Ion:168 Resp: 20091

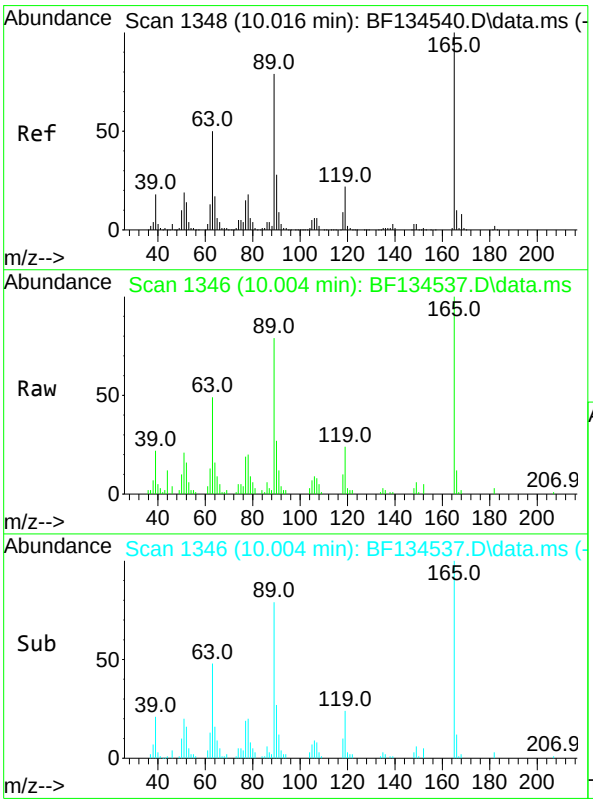
Ion	Ratio	Lower	Upper
168	100		
139	37.5	33.4	50.2
169	13.9	10.6	15.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

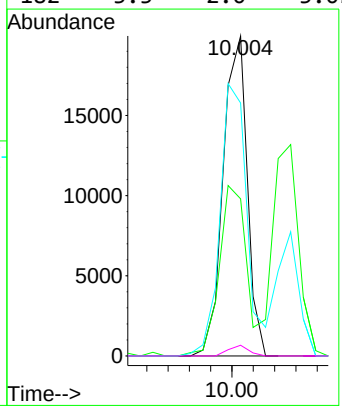
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

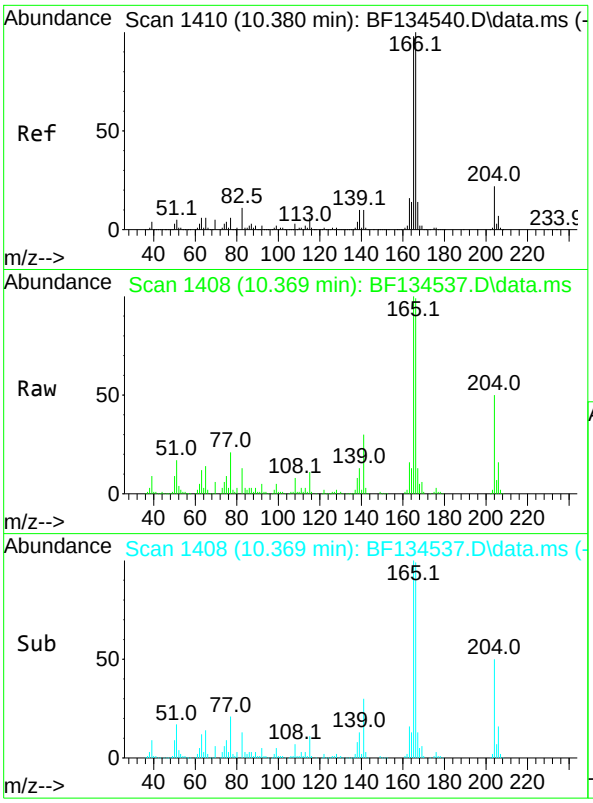


#57
2,4-Dinitrotoluene
Concen: 4.920 ng
RT: 10.004 min Scan# 1346
Delta R.T. -0.012 min
Lab File: BF134537.D
Acq: 01 Aug 2023 08:22

Tgt Ion:165 Resp: 15639

Ion	Ratio	Lower	Upper
165	100		
63	49.1	48.9	73.3
89	79.0	61.7	92.5
182	3.3	2.0	3.0#

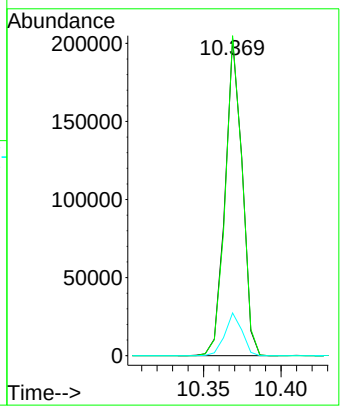




#58
Fluorene
Concen: 6.006 ng
RT: 10.369 min Scan# 14
Delta R.T. -0.011 min
Lab File: BF134537.D
Acq: 01 Aug 2023 08:22

Tgt Ion:166 Resp: 15582

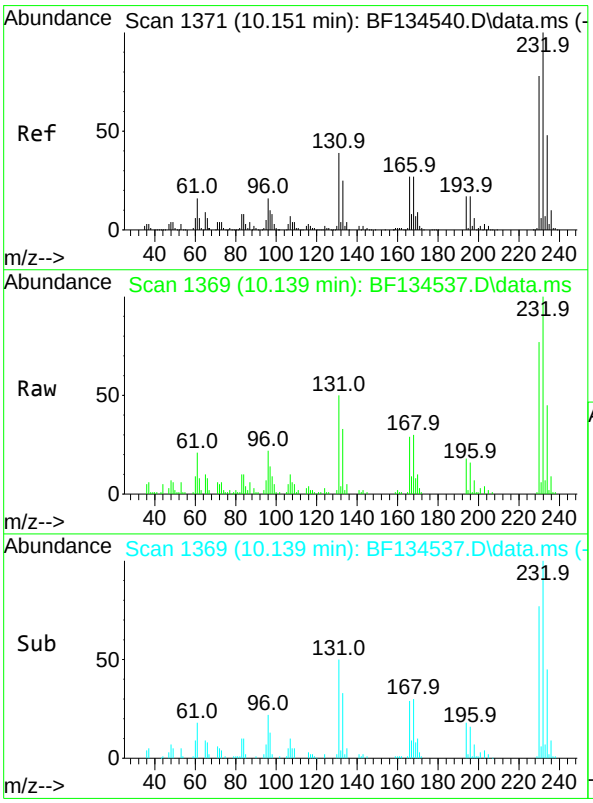
Ion	Ratio	Lower	Upper
166	100		
165	100.9	74.5	111.7
167	13.5	10.6	16.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

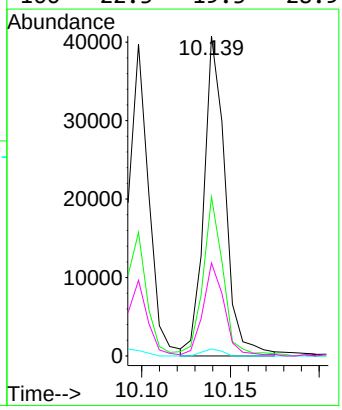
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

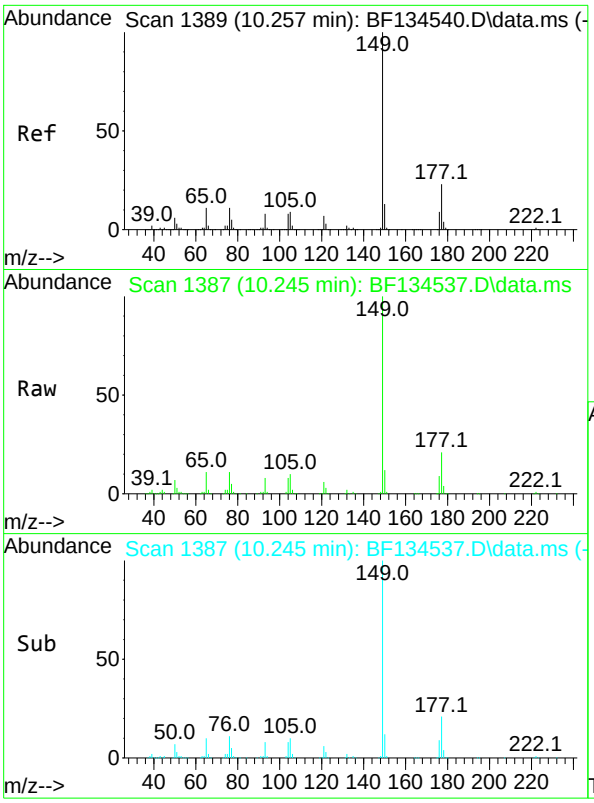


#59
2,3,4,6-Tetrachlorophenol
Concen: 4.689 ng m
RT: 10.139 min Scan# 1369
Delta R.T. -0.012 min
Lab File: BF134537.D
Acq: 01 Aug 2023 08:22

Tgt Ion:232 Resp: 34076

Ion	Ratio	Lower	Upper
232	100		
131	36.9	33.4	50.0
130	2.2	1.8	2.6
166	22.3	19.3	28.9

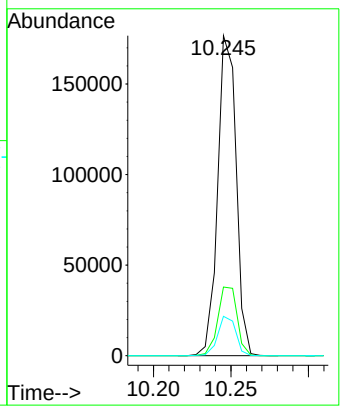




#60
Diethylphthalate
Concen: 5.376 ng
RT: 10.245 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF134537.D
Acq: 01 Aug 2023 08:22

Tgt Ion:149 Resp: 14642

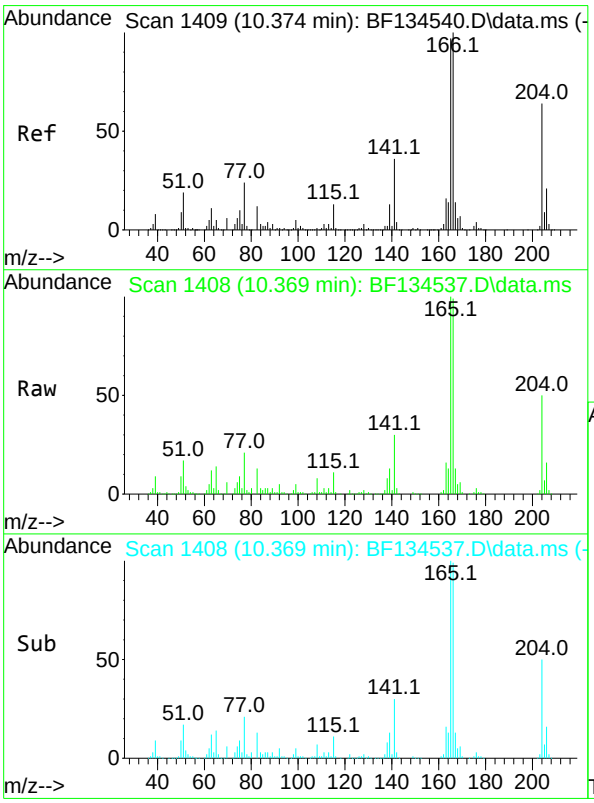
Ion	Ratio	Lower	Upper
149	100		
177	21.5	17.0	25.4
150	12.3	9.9	14.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

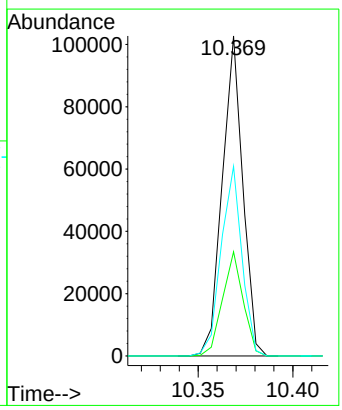
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

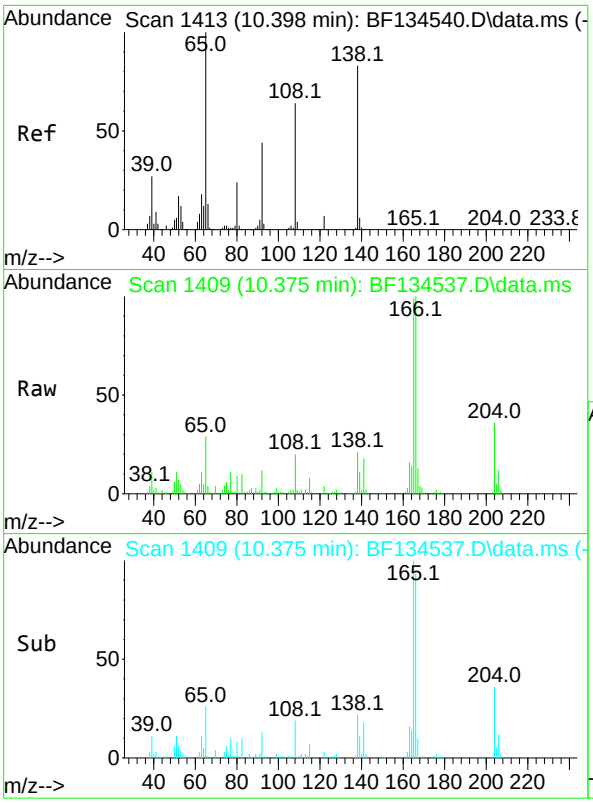


#61
4-Chlorophenyl-phenylether
Concen: 6.074 ng
RT: 10.369 min Scan# 1408
Delta R.T. -0.006 min
Lab File: BF134537.D
Acq: 01 Aug 2023 08:22

Tgt Ion:204 Resp: 77456

Ion	Ratio	Lower	Upper
204	100		
206	32.6	26.0	39.0
141	59.2	52.2	78.4

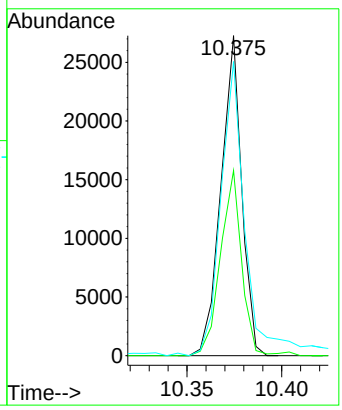




#62
4-Nitroaniline
Concen: 3.315 ng
RT: 10.375 min Scan# 14
Delta R.T. -0.023 min
Lab File: BF134537.D
Acq: 01 Aug 2023 08:22

Tgt Ion:138 Resp: 2080

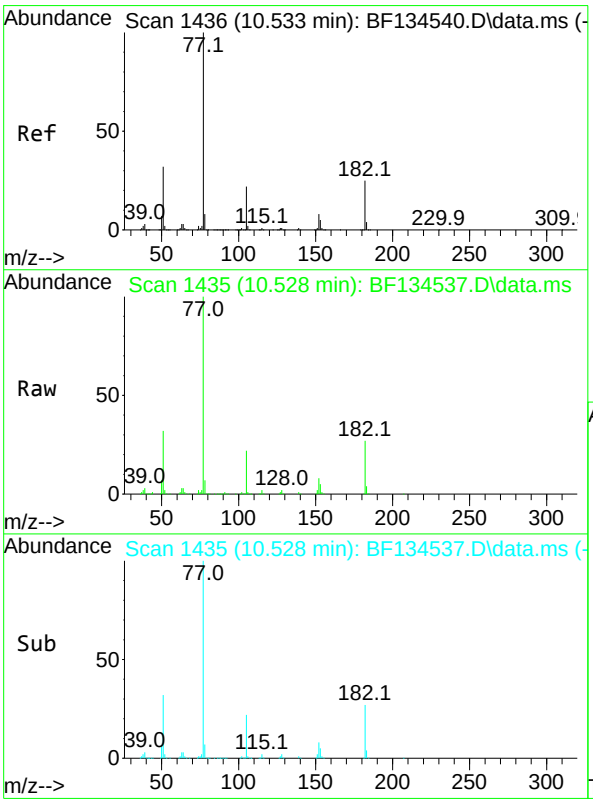
Ion	Ratio	Lower	Upper
138	100		
92	57.9	27.0	67.0
108	91.9	70.4	110.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

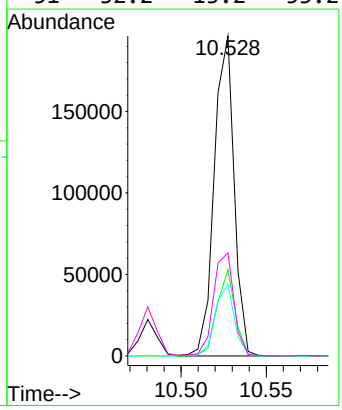
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

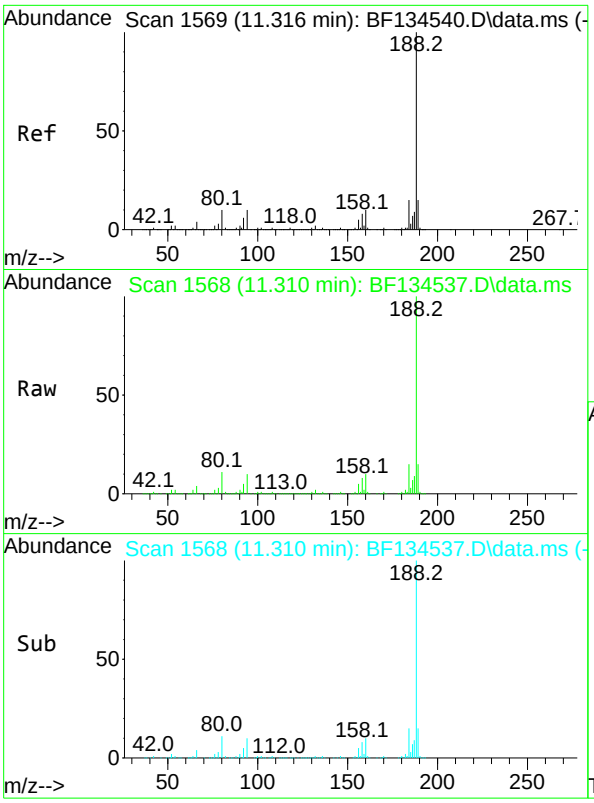


#63
Azobenzene
Concen: 5.456 ng
RT: 10.528 min Scan# 1435
Delta R.T. -0.006 min
Lab File: BF134537.D
Acq: 01 Aug 2023 08:22

Tgt Ion: 77 Resp: 159664

Ion	Ratio	Lower	Upper
77	100		
182	26.9	7.5	47.5
105	22.3	1.9	41.9
51	32.2	13.2	53.2

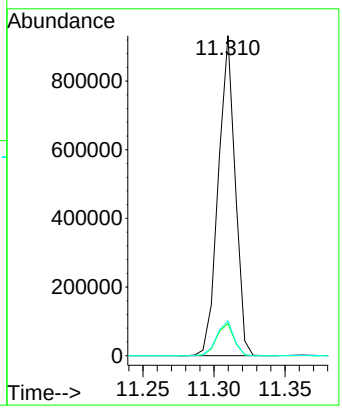




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.310 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF134537.D
Acq: 01 Aug 2023 08:22

Tgt Ion:188 Resp: 76898

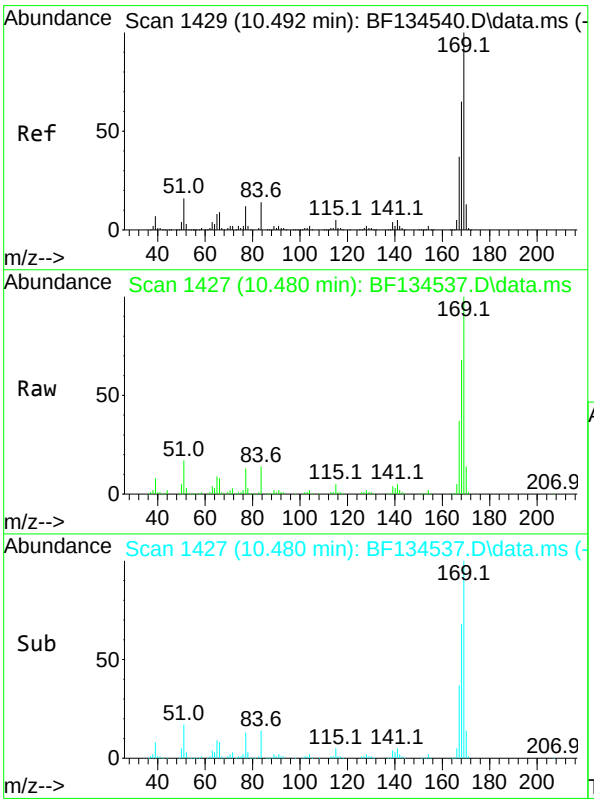
Ion	Ratio	Lower	Upper
188	100		
94	10.0	5.1	7.7
80	10.9	6.6	9.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

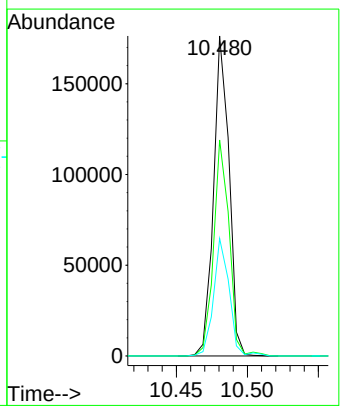
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

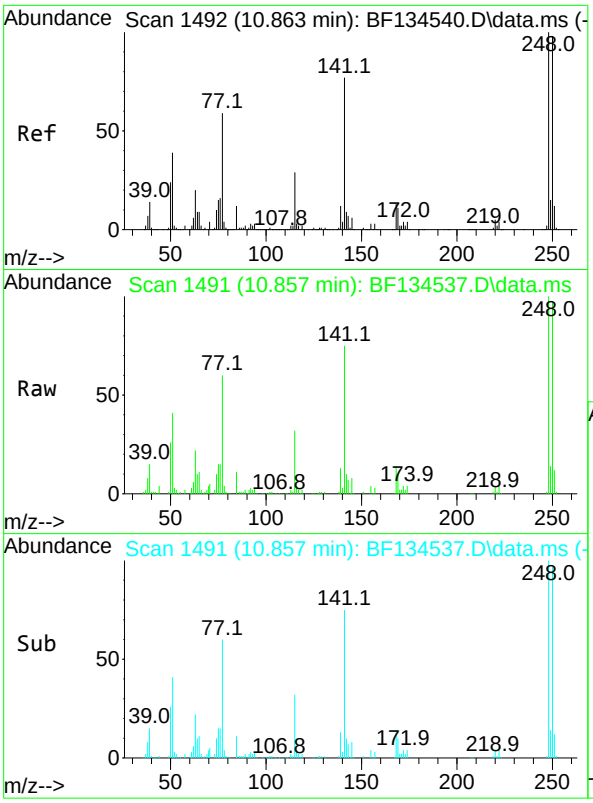


#66
n-Nitrosodiphenylamine
Concen: 5.443 ng
RT: 10.480 min Scan# 1427
Delta R.T. -0.012 min
Lab File: BF134537.D
Acq: 01 Aug 2023 08:22

Tgt Ion:169 Resp: 133225

Ion	Ratio	Lower	Upper
169	100		
168	67.5	52.6	78.8
167	36.7	29.8	44.8

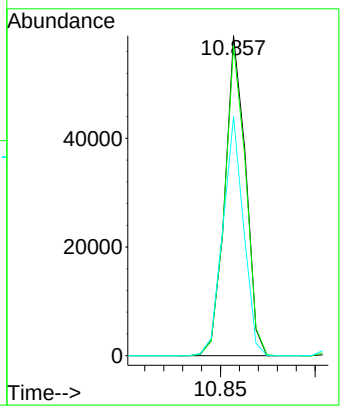




#67
4-Bromophenyl-phenylether
Concen: 5.325 ng
RT: 10.857 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF134537.D
Acq: 01 Aug 2023 08:22

Tgt Ion:248 Resp: 4482

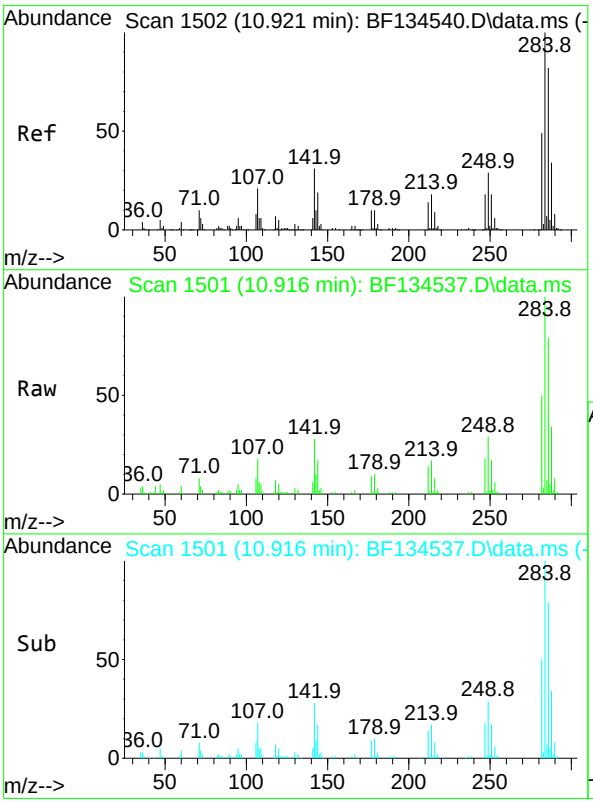
Ion	Ratio	Lower	Upper
248	100		
250	97.1	79.6	119.4
141	74.7	59.6	89.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

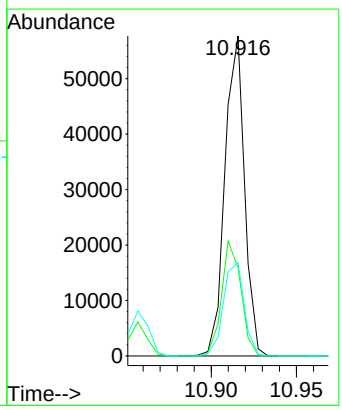
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

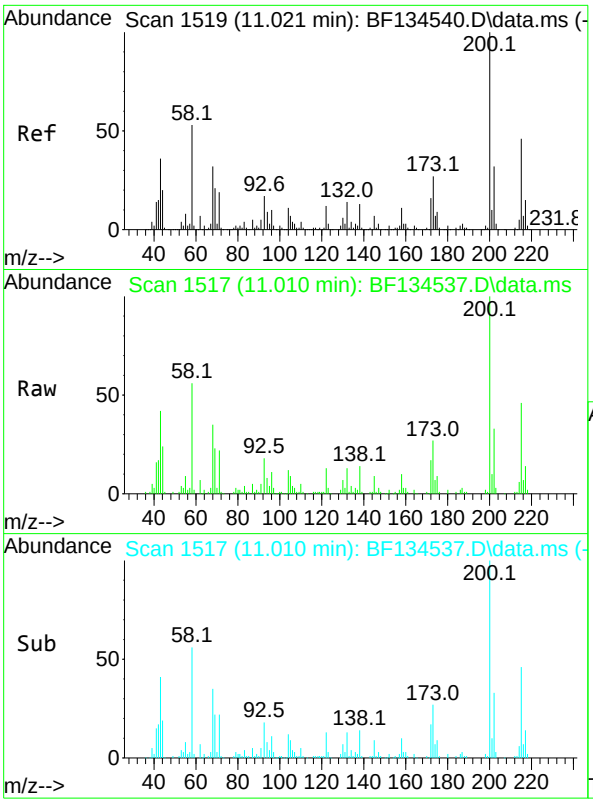


#68
Hexachlorobenzene
Concen: 5.186 ng
RT: 10.916 min Scan# 1501
Delta R.T. -0.006 min
Lab File: BF134537.D
Acq: 01 Aug 2023 08:22

Tgt Ion:284 Resp: 46103

Ion	Ratio	Lower	Upper
284	100		
142	27.5	26.5	39.7
249	29.1	23.8	35.8

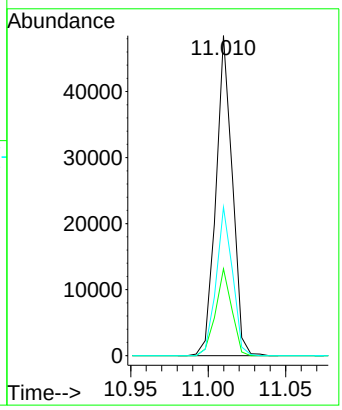




#69
Atrazine
Concen: 5.397 ng
RT: 11.010 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF134537.D
Acq: 01 Aug 2023 08:22

Tgt Ion:200 Resp: 3560

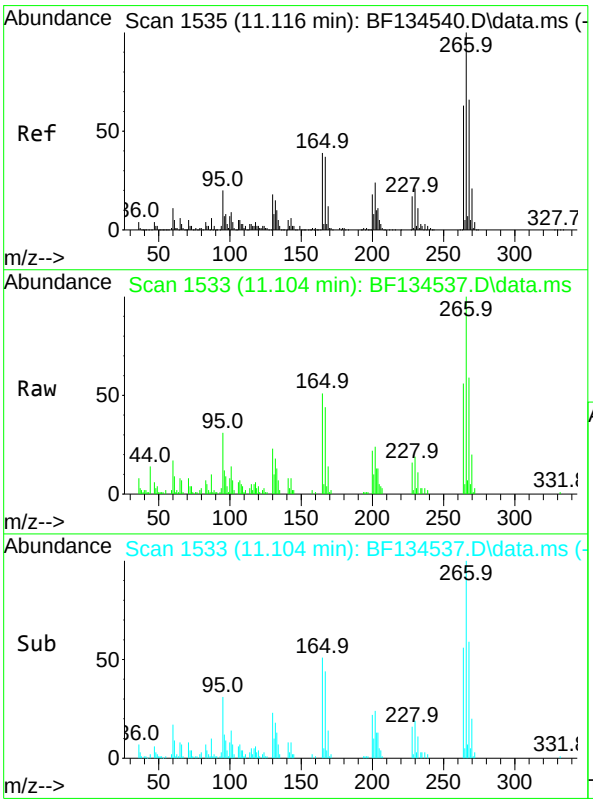
Ion	Ratio	Lower	Upper
200	100		
173	27.1	6.1	46.1
215	46.4	29.7	69.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

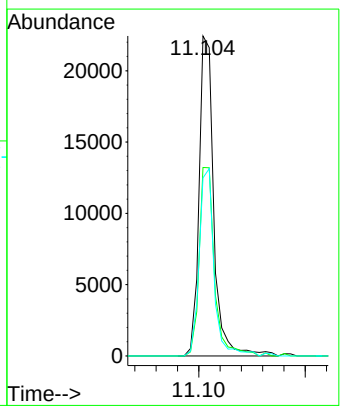
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

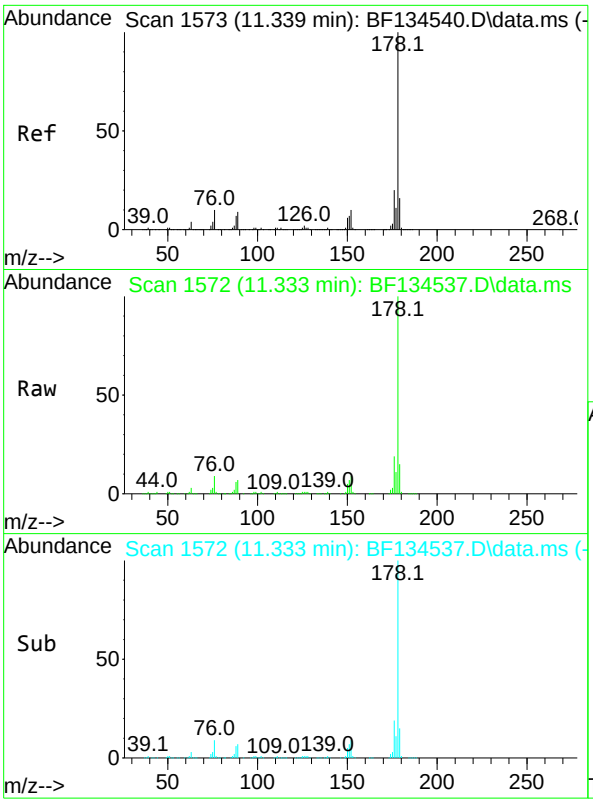


#70
Pentachlorophenol
Concen: 3.918 ng
RT: 11.104 min Scan# 1533
Delta R.T. -0.012 min
Lab File: BF134537.D
Acq: 01 Aug 2023 08:22

Tgt Ion:266 Resp: 21564

Ion	Ratio	Lower	Upper
266	100		
268	58.9	52.9	79.3
264	55.6	47.8	71.6

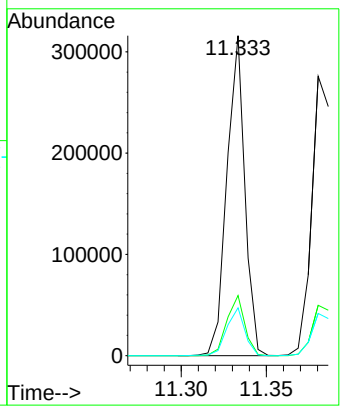




#71
Phenanthrene
Concen: 5.673 ng
RT: 11.333 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF134537.D
Acq: 01 Aug 2023 08:22

Tgt Ion:178 Resp: 23169

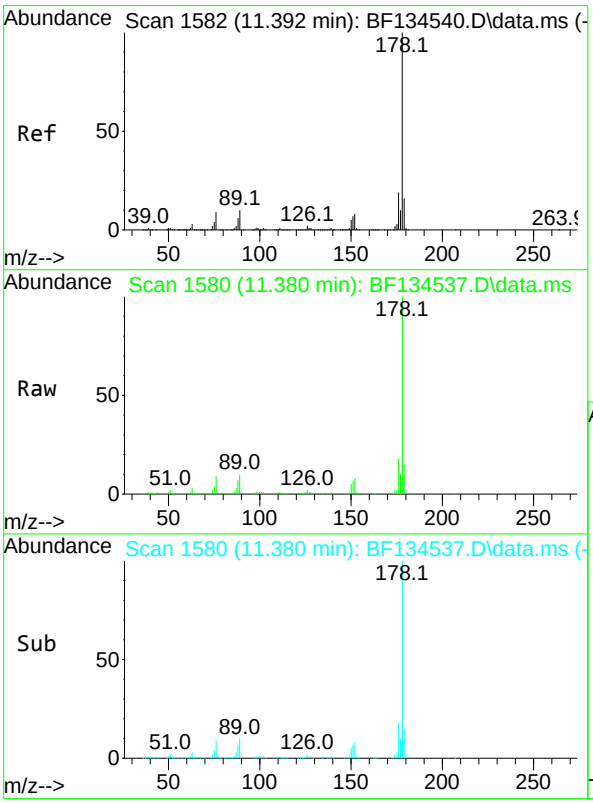
Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.8	23.6
179	15.0	12.7	19.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

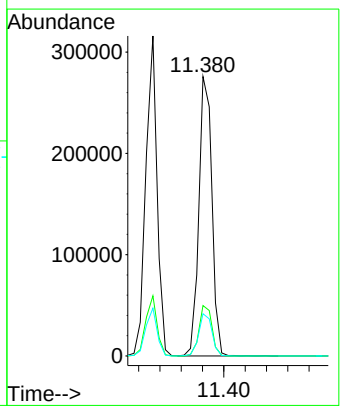
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

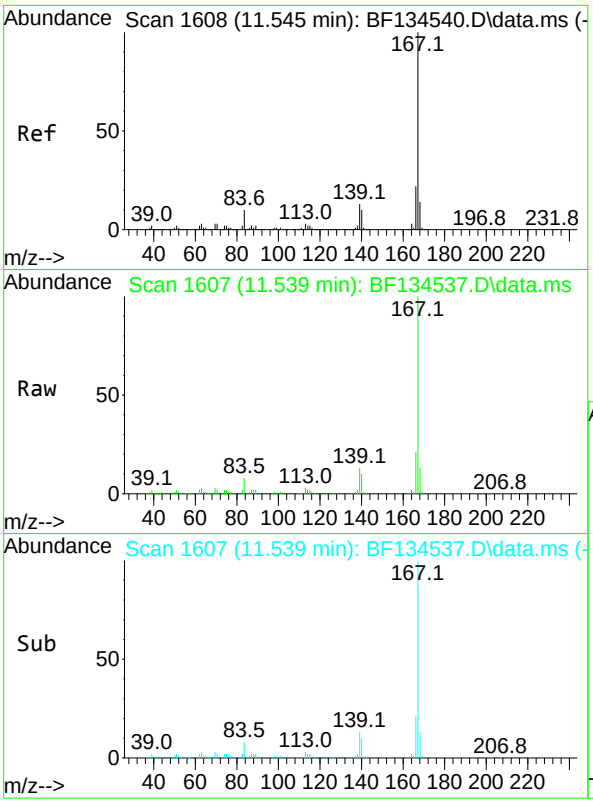


#72
Anthracene
Concen: 5.645 ng
RT: 11.380 min Scan# 1580
Delta R.T. -0.012 min
Lab File: BF134537.D
Acq: 01 Aug 2023 08:22

Tgt Ion:178 Resp: 235519

Ion	Ratio	Lower	Upper
178	100		
176	18.0	14.6	21.8
179	15.1	12.3	18.5

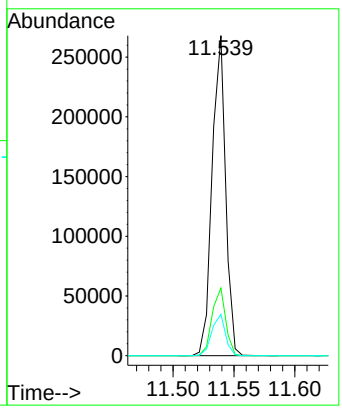




#73
Carbazole
Concen: 5.530 ng
RT: 11.539 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF134537.D
Acq: 01 Aug 2023 08:22

Tgt Ion:167 Resp: 20598

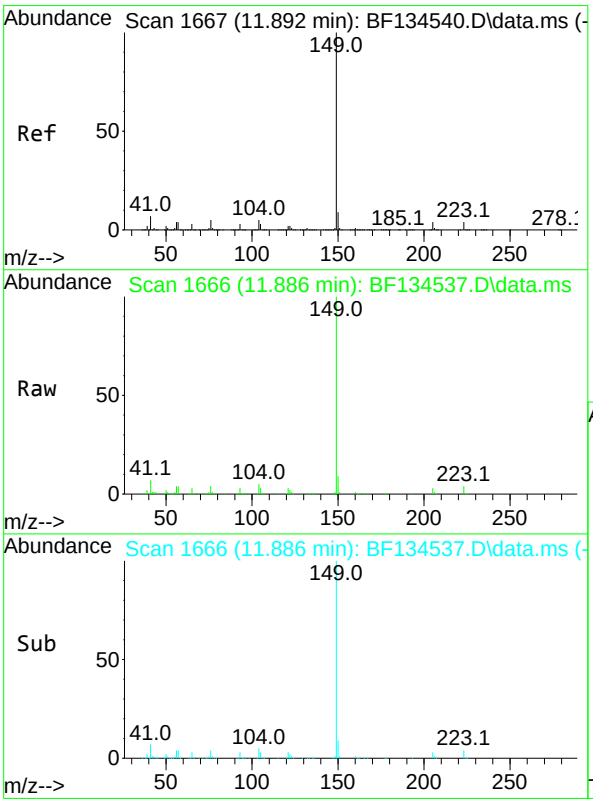
Ion	Ratio	Lower	Upper
167	100		
166	21.2	17.5	26.3
139	12.9	11.0	16.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

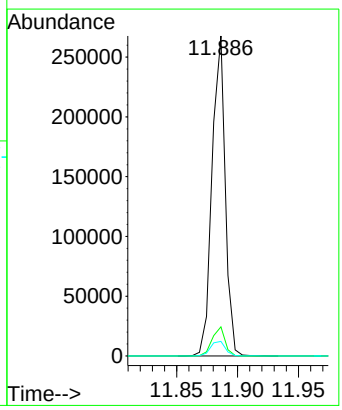
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

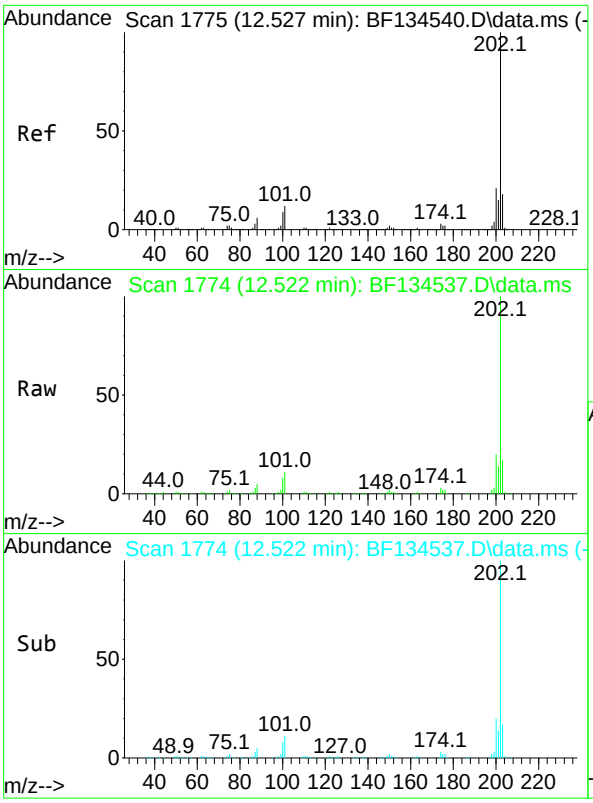


#74
Di-n-butylphthalate
Concen: 5.117 ng
RT: 11.886 min Scan# 1666
Delta R.T. -0.006 min
Lab File: BF134537.D
Acq: 01 Aug 2023 08:22

Tgt Ion:149 Resp: 202517

Ion	Ratio	Lower	Upper
149	100		
150	9.1	7.2	10.8
104	4.5	3.8	5.8

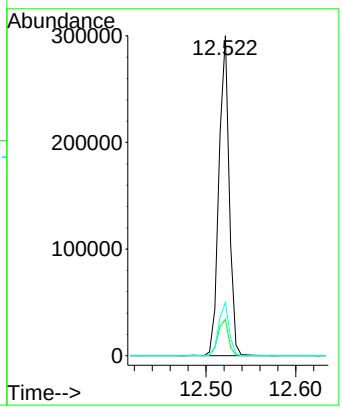




#75
Fluoranthene
Concen: 5.517 ng
RT: 12.522 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF134537.D
Acq: 01 Aug 2023 08:22

Tgt Ion:202 Resp: 23804

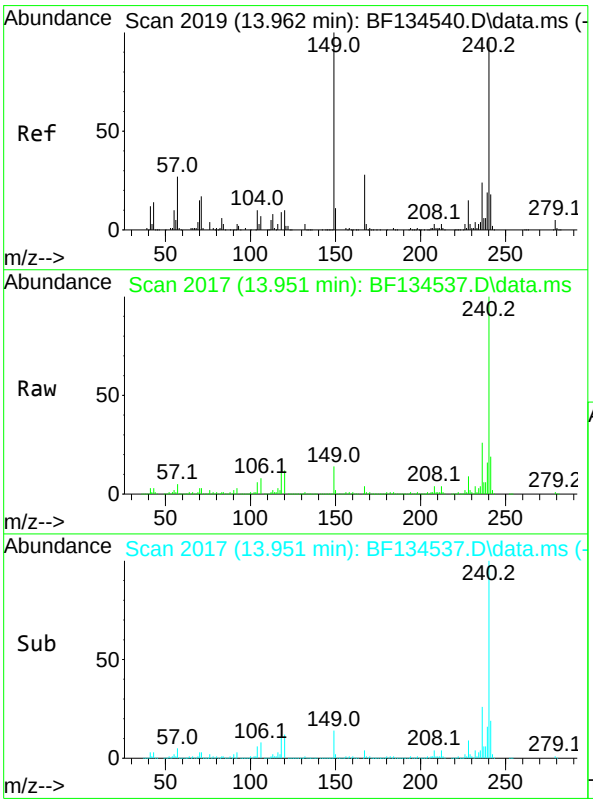
Ion	Ratio	Lower	Upper
202	100		
101	11.4	0.0	28.5
203	16.6	0.0	37.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

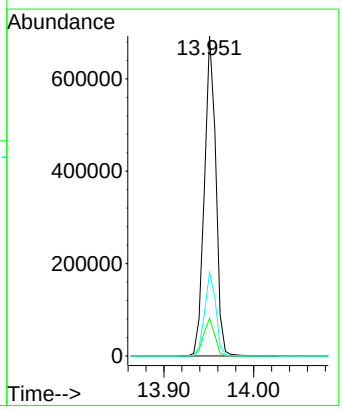
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

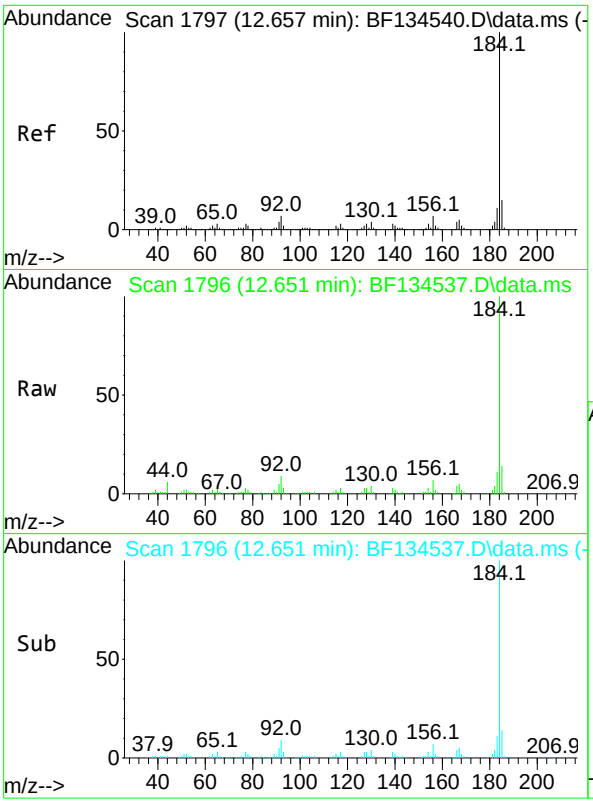


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.951 min Scan# 2017
Delta R.T. -0.012 min
Lab File: BF134537.D
Acq: 01 Aug 2023 08:22

Tgt Ion:240 Resp: 612073

Ion	Ratio	Lower	Upper
240	100		
120	11.7	6.6	10.0#
236	26.2	20.2	30.2

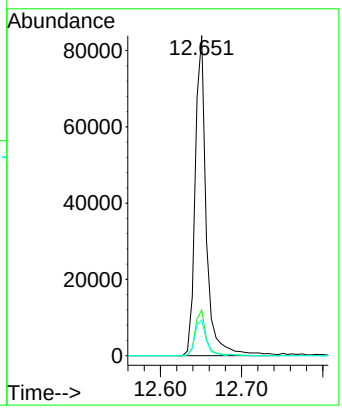




#77
Benzidine
Concen: 6.032 ng
RT: 12.651 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF134537.D
Acq: 01 Aug 2023 08:22

Tgt Ion:184 Resp: 8014

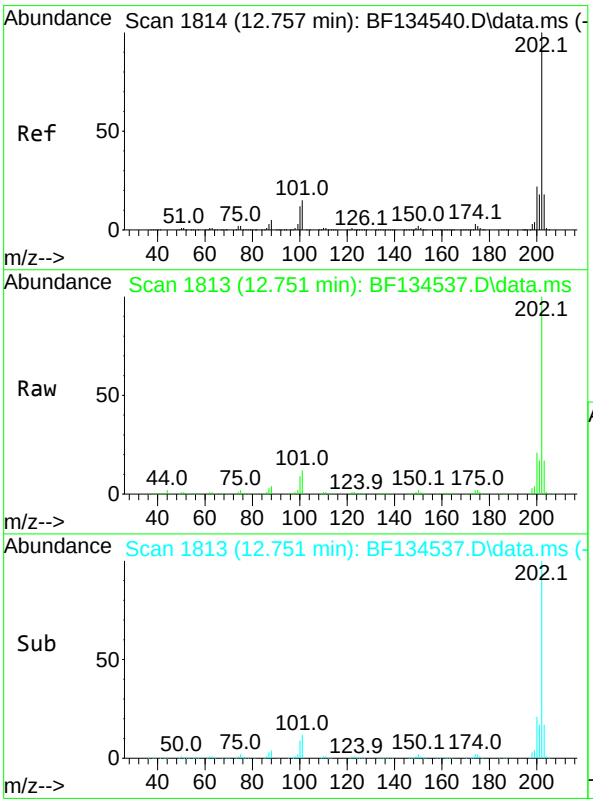
Ion	Ratio	Lower	Upper
184	100		
185	14.3	11.2	16.8
183	11.1	8.6	13.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

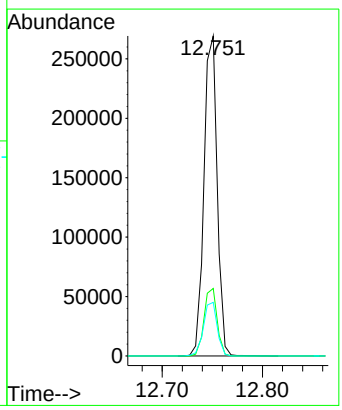
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

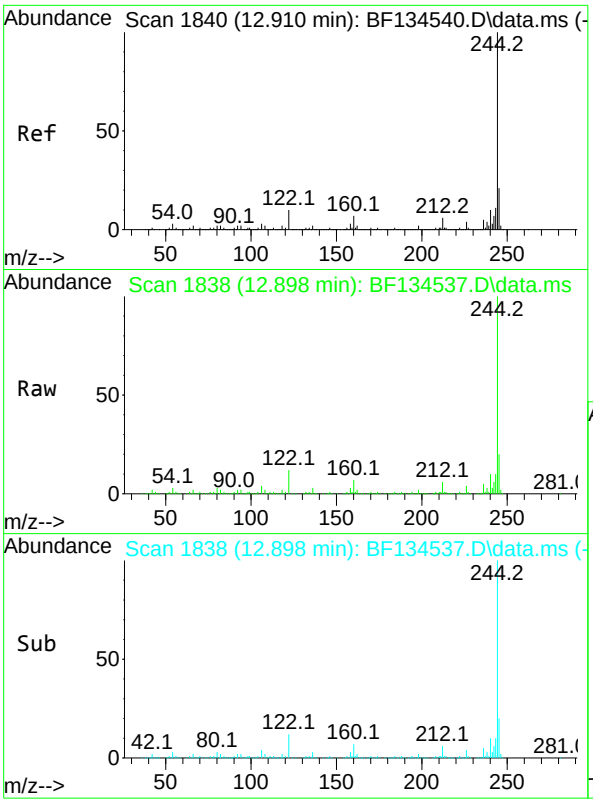


#78
Pyrene
Concen: 4.671 ng
RT: 12.751 min Scan# 1813
Delta R.T. -0.006 min
Lab File: BF134537.D
Acq: 01 Aug 2023 08:22

Tgt Ion:202 Resp: 247399

Ion	Ratio	Lower	Upper
202	100		
200	21.1	15.8	23.8
203	16.8	13.5	20.3

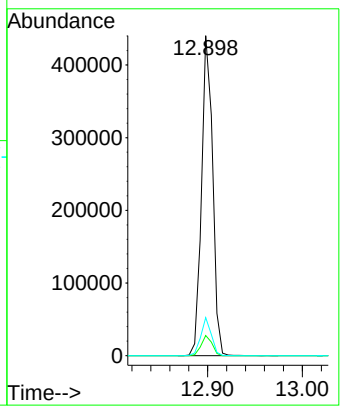




#79
Terphenyl-d14
Concen: 10.289 ng
RT: 12.898 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF134537.D
Acq: 01 Aug 2023 08:22

Tgt Ion:244 Resp: 35722

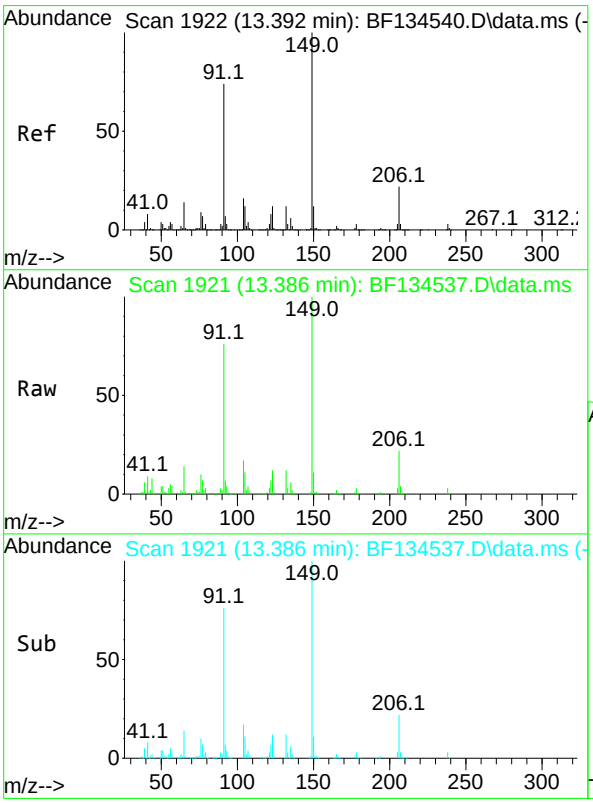
Ion	Ratio	Lower	Upper
244	100		
212	6.3	5.6	8.4
122	11.9	8.0	12.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

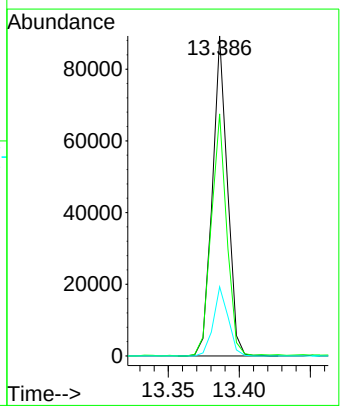
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

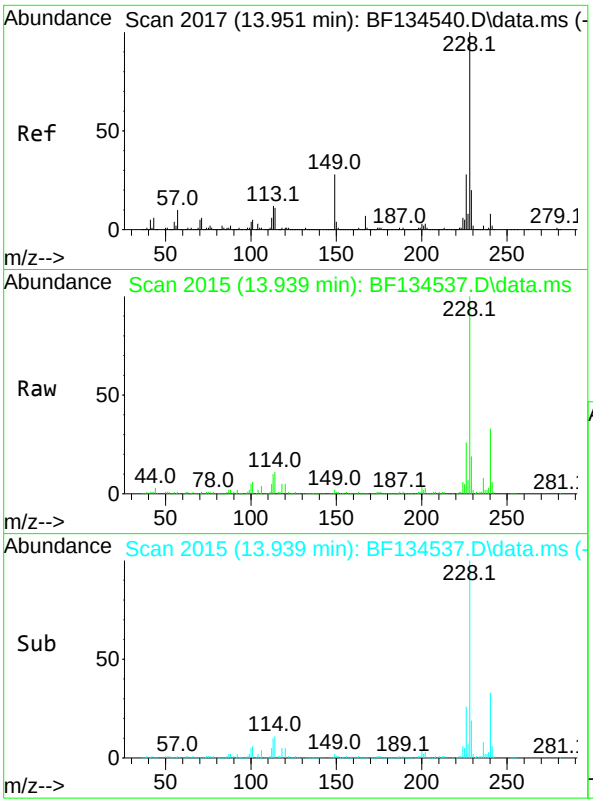


#80
Butylbenzylphthalate
Concen: 3.685 ng
RT: 13.386 min Scan# 1921
Delta R.T. -0.006 min
Lab File: BF134537.D
Acq: 01 Aug 2023 08:22

Tgt Ion:149 Resp: 65988

Ion	Ratio	Lower	Upper
149	100		
91	75.6	55.8	83.6
206	21.6	14.6	21.8

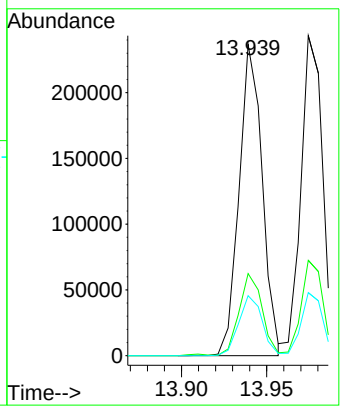




#81
Benzo(a)anthracene
Concen: 5.095 ng
RT: 13.939 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF134537.D
Acq: 01 Aug 2023 08:22

Tgt Ion:228 Resp: 22300

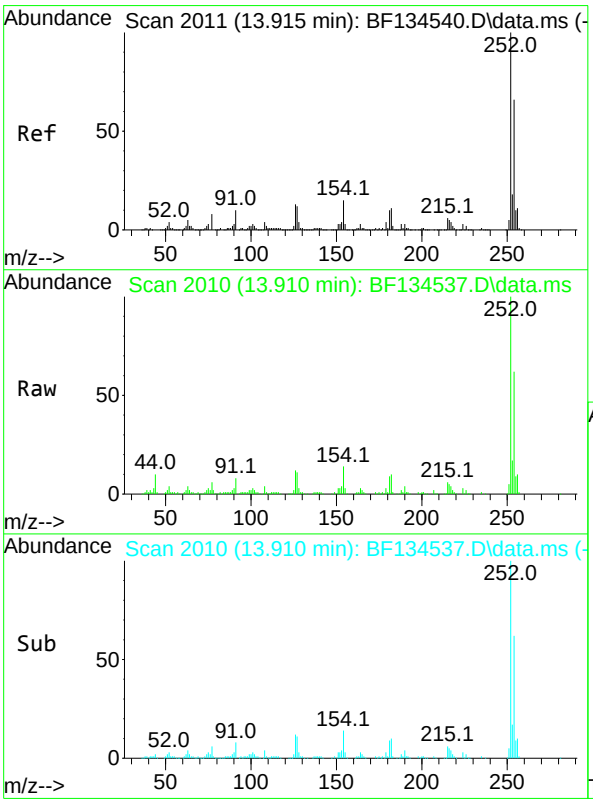
Ion	Ratio	Lower	Upper
228	100		
226	26.4	22.3	33.5
229	19.3	15.8	23.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

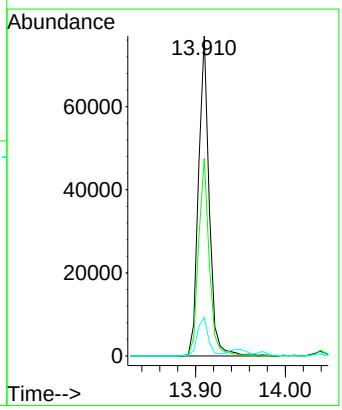
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

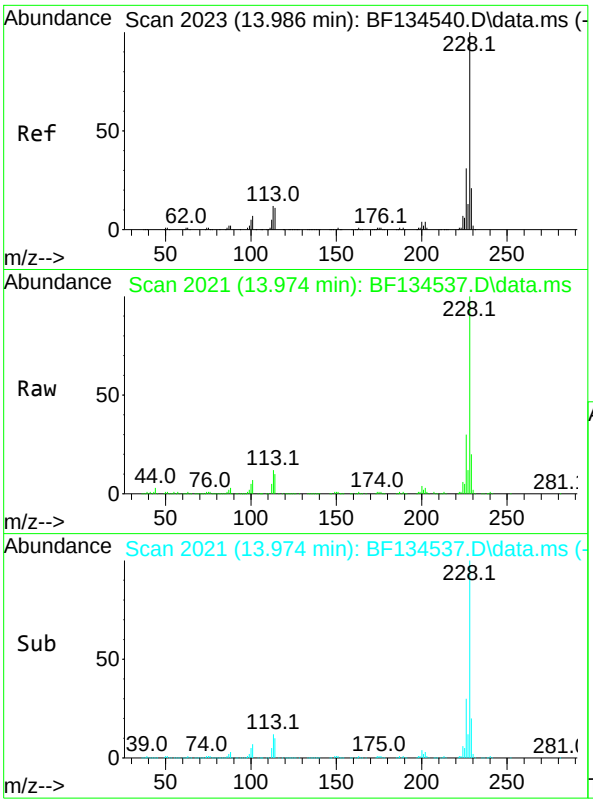


#82
3,3'-Dichlorobenzidine
Concen: 5.027 ng
RT: 13.910 min Scan# 2010
Delta R.T. -0.006 min
Lab File: BF134537.D
Acq: 01 Aug 2023 08:22

Tgt Ion:252 Resp: 63769

Ion	Ratio	Lower	Upper
252	100		
254	61.7	52.7	79.1
126	12.0	7.2	10.8#

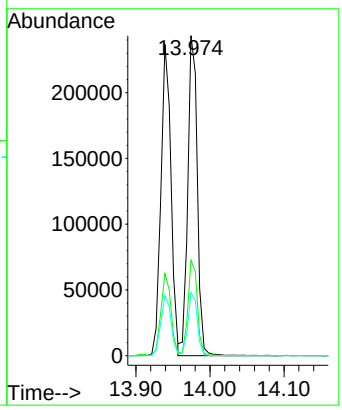




#83
Chrysene
Concen: 5.121 ng
RT: 13.974 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF134537.D
Acq: 01 Aug 2023 08:22

Tgt Ion:228 Resp: 21837

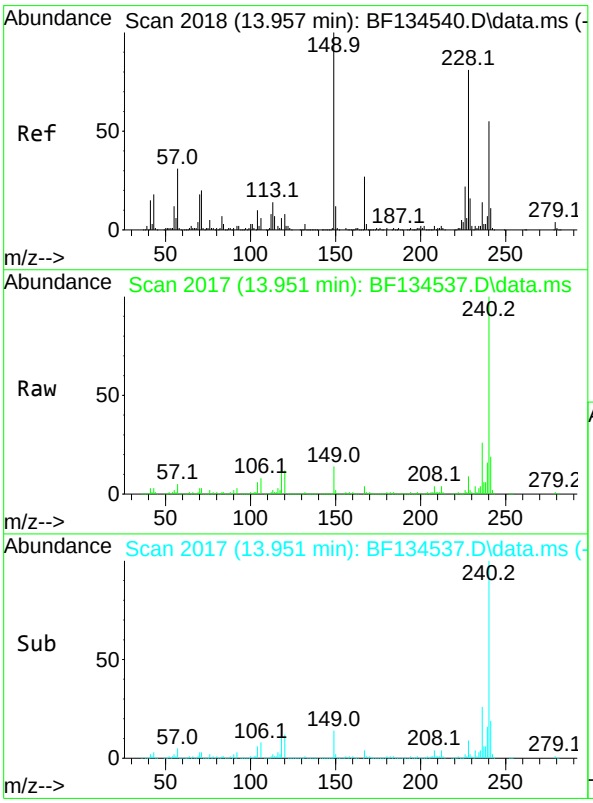
Ion	Ratio	Lower	Upper
228	100		
226	29.8	24.5	36.7
229	19.7	15.8	23.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

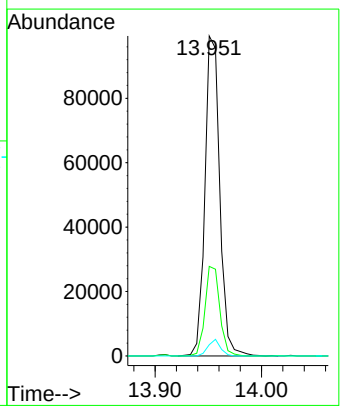
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

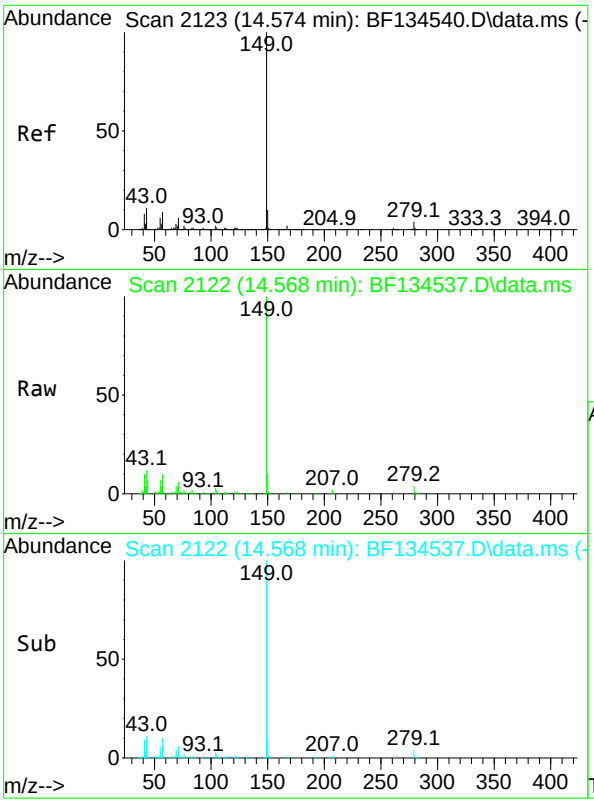


#84
Bis(2-ethylhexyl)phthalate
Concen: 4.579 ng
RT: 13.951 min Scan# 2017
Delta R.T. -0.006 min
Lab File: BF134537.D
Acq: 01 Aug 2023 08:22

Tgt Ion:149 Resp: 96502

Ion	Ratio	Lower	Upper
149	100		
167	28.0	21.6	32.4
279	3.5	3.5	5.3#

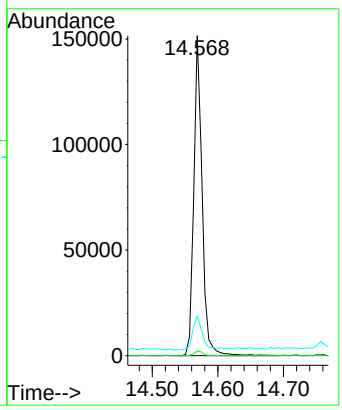




#85
Di-n-octyl phthalate
Concen: 4.185 ng
RT: 14.568 min Scan# 21
Delta R.T. -0.006 min
Lab File: BF134537.D
Acq: 01 Aug 2023 08:22

Tgt Ion:149 Resp: 13412

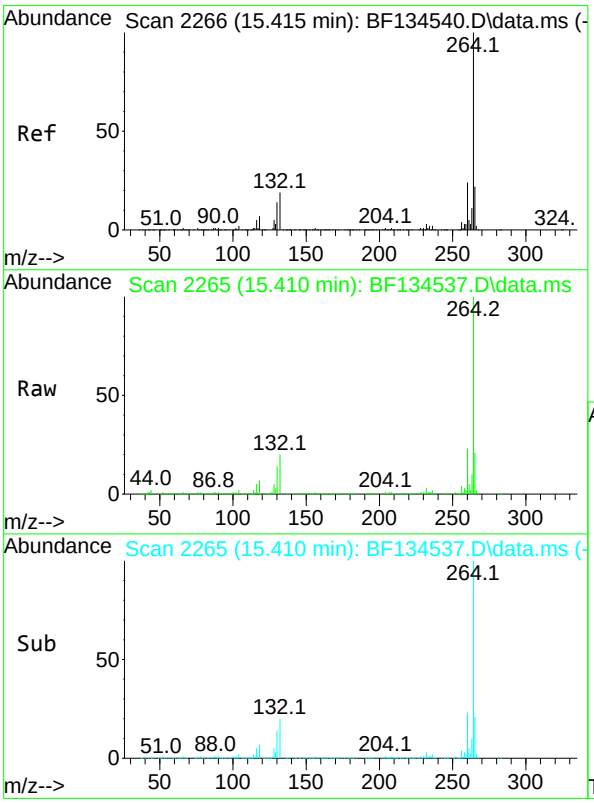
Ion	Ratio	Lower	Upper
149	100		
167	1.5	1.2	1.8
43	12.3	8.1	12.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

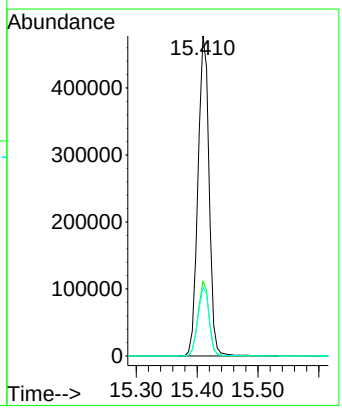
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

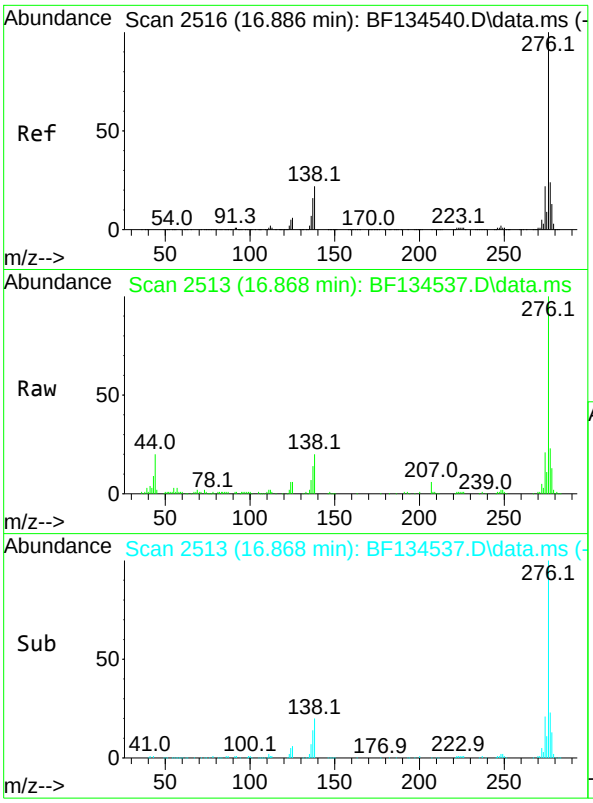


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.410 min Scan# 2265
Delta R.T. -0.006 min
Lab File: BF134537.D
Acq: 01 Aug 2023 08:22

Tgt Ion:264 Resp: 605165

Ion	Ratio	Lower	Upper
264	100		
260	23.3	18.4	27.6
265	21.4	15.8	23.8

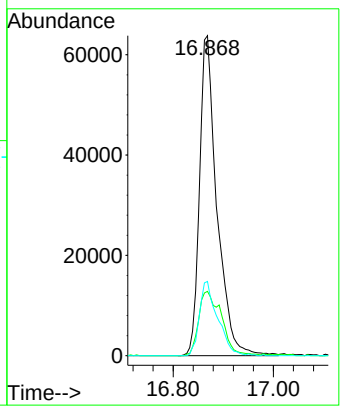




#87
Indeno(1,2,3-cd)pyrene
Concen: 4.330 ng
RT: 16.868 min Scan# 2
Delta R.T. -0.017 min
Lab File: BF134537.D
Acq: 01 Aug 2023 08:22

Tgt Ion:276 Resp: 15411

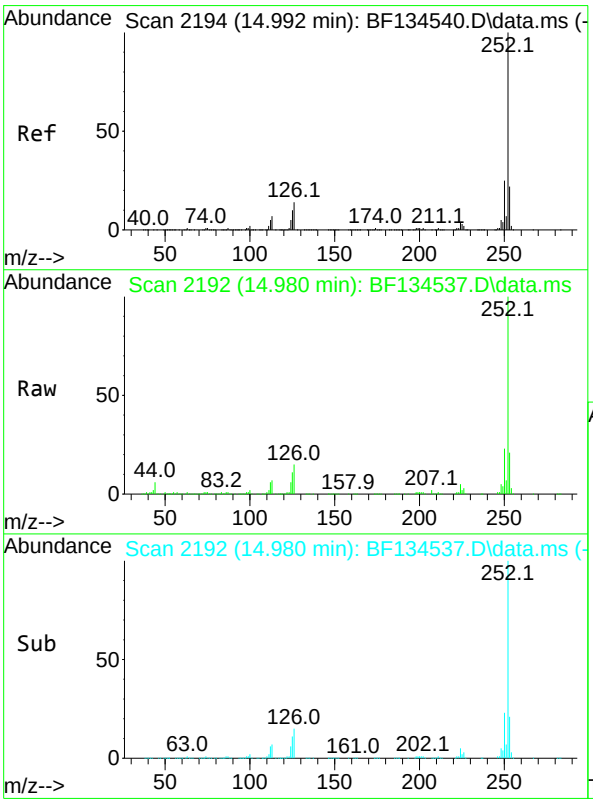
Ion	Ratio	Lower	Upper
276	100		
138	26.4	14.2	21.4#
277	24.1	19.9	29.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

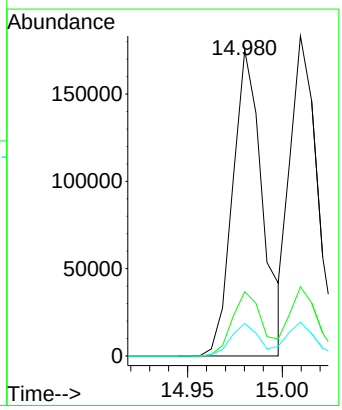
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

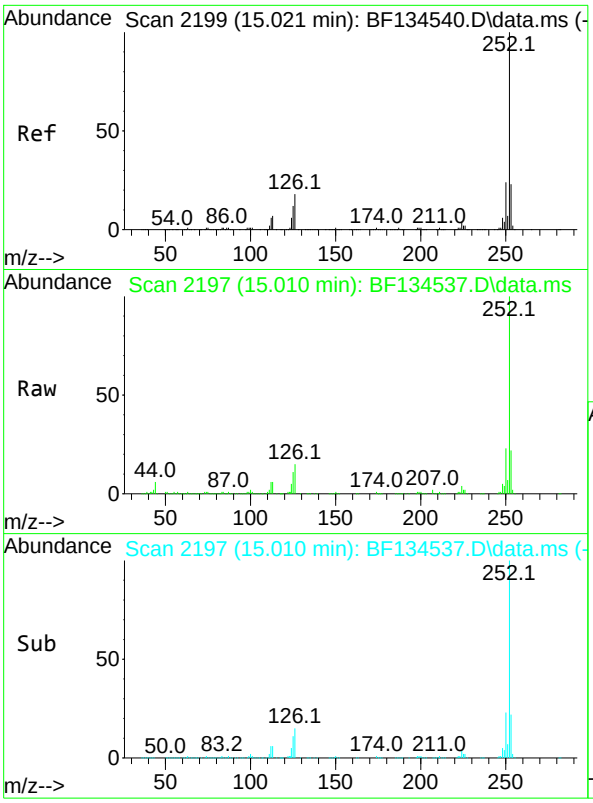


#88
Benzo(b)fluoranthene
Concen: 5.208 ng
RT: 14.980 min Scan# 2192
Delta R.T. -0.012 min
Lab File: BF134537.D
Acq: 01 Aug 2023 08:22

Tgt Ion:252 Resp: 192211

Ion	Ratio	Lower	Upper
252	100		
253	21.0	17.3	25.9
125	10.6	6.0	9.0#

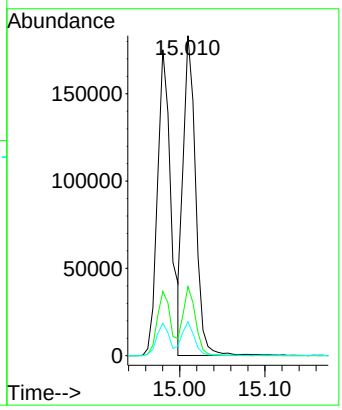




#89
Benzo(k)fluoranthene
Concen: 5.035 ng
RT: 15.010 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF134537.D
Acq: 01 Aug 2023 08:22

Tgt Ion:252 Resp: 18511

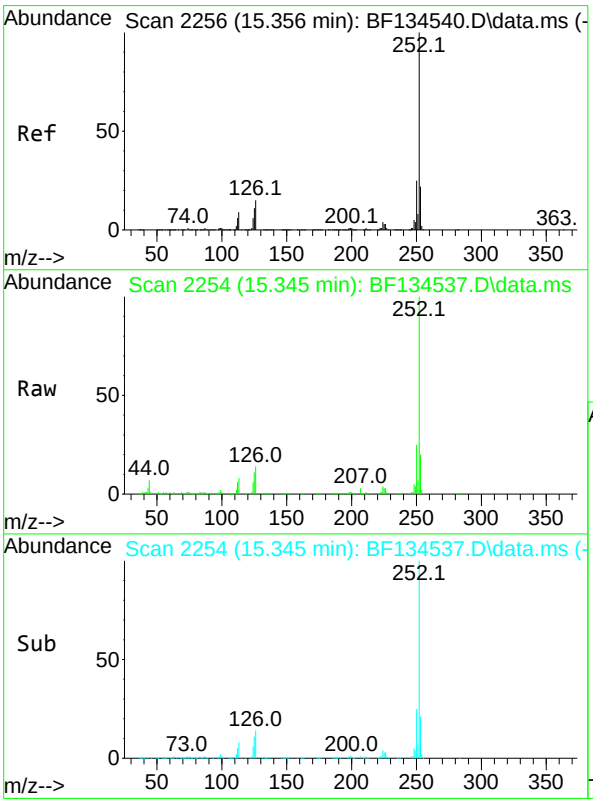
Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.9	26.9
125	10.6	6.3	9.5#



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

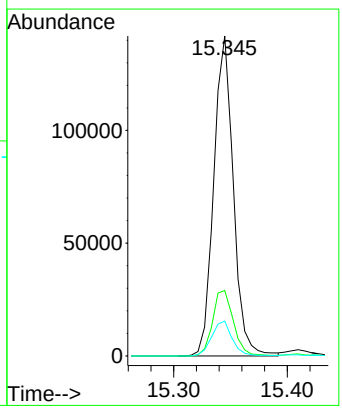
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

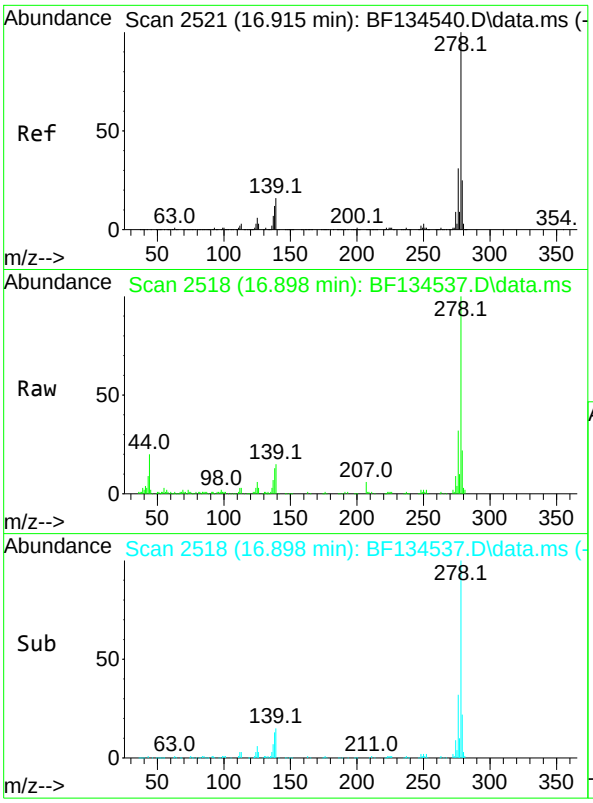


#90
Benzo(a)pyrene
Concen: 4.940 ng
RT: 15.345 min Scan# 2254
Delta R.T. -0.012 min
Lab File: BF134537.D
Acq: 01 Aug 2023 08:22

Tgt Ion:252 Resp: 170000

Ion	Ratio	Lower	Upper
252	100		
253	20.5	17.0	25.4
125	10.9	6.2	9.4#

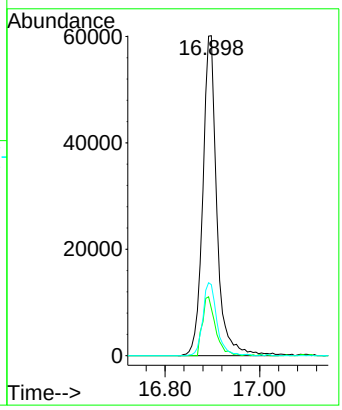




#91
Dibenzo(a,h)anthracene
Concen: 4.305 ng
RT: 16.898 min Scan# 2
Delta R.T. -0.017 min
Lab File: BF134537.D
Acq: 01 Aug 2023 08:22

Tgt Ion:278 Resp: 12383

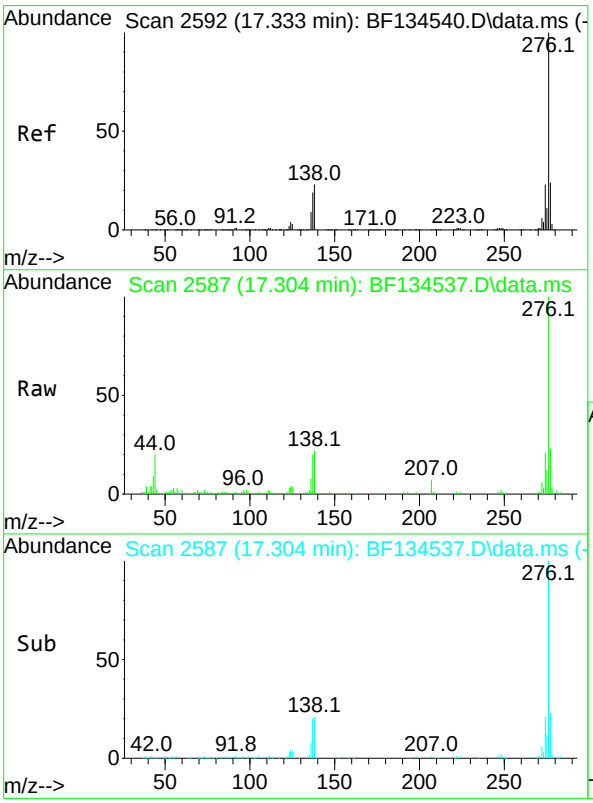
Ion	Ratio	Lower	Upper
278	100		
139	14.7	10.0	15.0
279	22.2	19.7	29.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

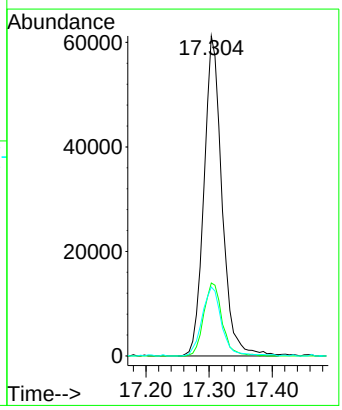
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023



#92
Benzo(g,h,i)perylene
Concen: 4.132 ng
RT: 17.304 min Scan# 2587
Delta R.T. -0.029 min
Lab File: BF134537.D
Acq: 01 Aug 2023 08:22

Tgt Ion:276 Resp: 121239

Ion	Ratio	Lower	Upper
276	100		
277	22.8	19.0	28.6
138	21.6	12.2	18.2#



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080123\
Data File : BF134538.D
Acq On : 01 Aug 2023 08:54
Operator : CG\JU
Sample : SSTDICC010
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 02 02:11:19 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 02 02:08:18 2023
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.792	152	206594	20.000	ng		0.00
21) Naphthalene-d8	8.069	136	815549	20.000	ng	#	0.00
39) Acenaphthene-d10	9.828	164	408542	20.000	ng		0.00
64) Phenanthrene-d10	11.310	188	747603	20.000	ng	#	0.00
76) Chrysene-d12	13.957	240	582401	20.000	ng	#	0.00
86) Perylene-d12	15.410	264	546905	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.410	112	305785	22.499	ng		0.00
7) Phenol-d6	6.410	99	393897	22.673	ng		-0.02
23) Nitrobenzene-d5	7.351	82	247837	18.991	ng		0.00
42) 2,4,6-Tribromophenol	10.610	330	85418	20.510	ng		0.00
45) 2-Fluorobiphenyl	9.145	172	626248	25.487	ng		0.00
79) Terphenyl-d14	12.904	244	673654	20.391	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.552	88	66943	10.706	ng		96
3) Pyridine	3.293	79	181429	10.707	ng		92
4) n-Nitrosodimethylamine	3.240	42	84845	10.480	ng	#	72
6) Aniline	6.451	93	245063	10.754	ng		94
8) 2-Chlorophenol	6.575	128	150330	10.965	ng		95
9) Benzaldehyde	6.345	77	114367	10.069	ng		91
10) Phenol	6.422	94	187635	10.959	ng		81
11) bis(2-Chloroethyl)ether	6.528	93	150864	11.093	ng		92
12) 1,3-Dichlorobenzene	6.734	146	157923	11.133	ng		93
13) 1,4-Dichlorobenzene	6.810	146	159458	11.217	ng		97
14) 1,2-Dichlorobenzene	6.963	146	151915	11.469	ng		95
15) Benzyl Alcohol	6.928	79	136088	11.355	ng		93
16) 2,2'-oxybis(1-Chloropr...	7.069	45	232024	10.889	ng		88
17) 2-Methylphenol	7.034	107	131620	10.864	ng		92
18) Hexachloroethane	7.304	117	53118	10.646	ng		95
19) n-Nitroso-di-n-propyla...	7.198	70	114438	11.002	ng		95
20) 3+4-Methylphenols	7.187	107	171634	11.747	ng	#	62
22) Acetophenone	7.198	105	217267	11.540	ng	#	84
24) Nitrobenzene	7.369	77	141016	10.002	ng		99
25) Isophorone	7.604	82	298562	10.489	ng		97
26) 2-Nitrophenol	7.686	139	34966	10.039	ng	#	90
27) 2,4-Dimethylphenol	7.722	122	136790	10.770	ng	#	81
28) bis(2-Chloroethoxy)met...	7.822	93	183230	10.761	ng		98
29) 2,4-Dichlorophenol	7.922	162	119162	10.338	ng		96
30) 1,2,4-Trichlorobenzene	8.010	180	131454	10.694	ng		97
31) Naphthalene	8.092	128	457493	11.162	ng		99
32) Benzoic acid	7.786	122	39556	11.859	ng	#	81
33) 4-Chloroaniline	8.139	127	193563	10.599	ng		99
34) Hexachlorobutadiene	8.210	225	75898	10.704	ng		97
35) Caprolactam	8.475	113	36847	9.905	ng		96
36) 4-Chloro-3-methylphenol	8.610	107	126770	10.385	ng		96
37) 2-Methylnaphthalene	8.781	142	305272	11.236	ng		96
38) 1-Methylnaphthalene	8.881	142	278687	11.031	ng		99
40) 1,2,4,5-Tetrachloroben...	8.945	216	133117	11.205	ng		99
41) Hexachlorocyclopentadiene	8.939	237	55360	9.583	ng		98
43) 2,4,6-Trichlorophenol	9.057	196	78789	10.134	ng		95

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080123\
Data File : BF134538.D
Acq On : 01 Aug 2023 08:54
Operator : CG\JU
Sample : SSTDICC010
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 02 02:11:19 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 02 02:08:18 2023
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.086	196	93334	10.503	ng		93
46) 1,1'-Biphenyl	9.245	154	361765	11.387	ng		97
47) 2-Chloronaphthalene	9.269	162	266107	11.179	ng		97
48) 2-Nitroaniline	9.363	65	50087	9.470	ng		96
49) Acenaphthylene	9.686	152	418562	11.186	ng		98
50) Dimethylphthalate	9.545	163	301678	10.834	ng		97
51) 2,6-Dinitrotoluene	9.604	165	41879	9.454	ng		91
52) Acenaphthene	9.857	154	269820	11.127	ng		98
53) 3-Nitroaniline	9.769	138	54358	8.758	ng	#	76
54) 2,4-Dinitrophenol	9.875	184	7734	11.233	ng		91
55) Dibenzofuran	10.028	168	385679	11.173	ng		97
56) 4-Nitrophenol	9.916	139	39886	7.858	ng		88
57) 2,4-Dinitrotoluene	10.004	165	45258	9.029	ng		90
58) Fluorene	10.369	166	301668	11.998	ng		95
59) 2,3,4,6-Tetrachlorophenol	10.145	232	72358m	10.275	ng		
60) Diethylphthalate	10.251	149	288159	10.918	ng		97
61) 4-Chlorophenyl-phenyle...	10.369	204	146315	11.839	ng		94
62) 4-Nitroaniline	10.380	138	52878	8.692	ng		93
63) Azobenzene	10.527	77	314264	11.082	ng		97
65) 4,6-Dinitro-2-methylph...	10.410	198	12710	12.143	ng		94
66) n-Nitrosodiphenylamine	10.486	169	264231	11.104	ng		98
67) 4-Bromophenyl-phenylether	10.857	248	85524	10.450	ng		97
68) Hexachlorobenzene	10.916	284	93040	10.766	ng		99
69) Atrazine	11.016	200	72497	11.303	ng		96
70) Pentachlorophenol	11.110	266	49595	9.269	ng		98
71) Phenanthrene	11.333	178	446502	11.244	ng		99
72) Anthracene	11.386	178	454825	11.213	ng		99
73) Carbazole	11.539	167	400093	11.047	ng		99
74) Di-n-butylphthalate	11.886	149	412378	10.718	ng		100
75) Fluoranthene	12.521	202	461769	11.009	ng		96
77) Benzidine	12.651	184	143293	11.334	ng		99
78) Pyrene	12.751	202	486634	9.656	ng		98
80) Butylbenzylphthalate	13.386	149	143884	8.443	ng		92
81) Benzo(a)anthracene	13.945	228	428521	10.290	ng		98
82) 3,3'-Dichlorobenzidine	13.910	252	127556	10.567	ng	#	96
83) Chrysene	13.980	228	412914	10.177	ng		99
84) Bis(2-ethylhexyl)phtha...	13.957	149	201788	10.062	ng		99
85) Di-n-octyl phthalate	14.568	149	278531	9.133	ng		95
87) Indeno(1,2,3-cd)pyrene	16.874	276	281240	8.744	ng	#	91
88) Benzo(b)fluoranthene	14.986	252	347432	10.416	ng	#	97
89) Benzo(k)fluoranthene	15.015	252	362488	10.909	ng	#	98
90) Benzo(a)pyrene	15.345	252	322530	10.371	ng	#	95
91) Dibenzo(a,h)anthracene	16.898	278	230081	8.851	ng	#	95
92) Benzo(g,h,i)perylene	17.315	276	225941	8.521	ng	#	93

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

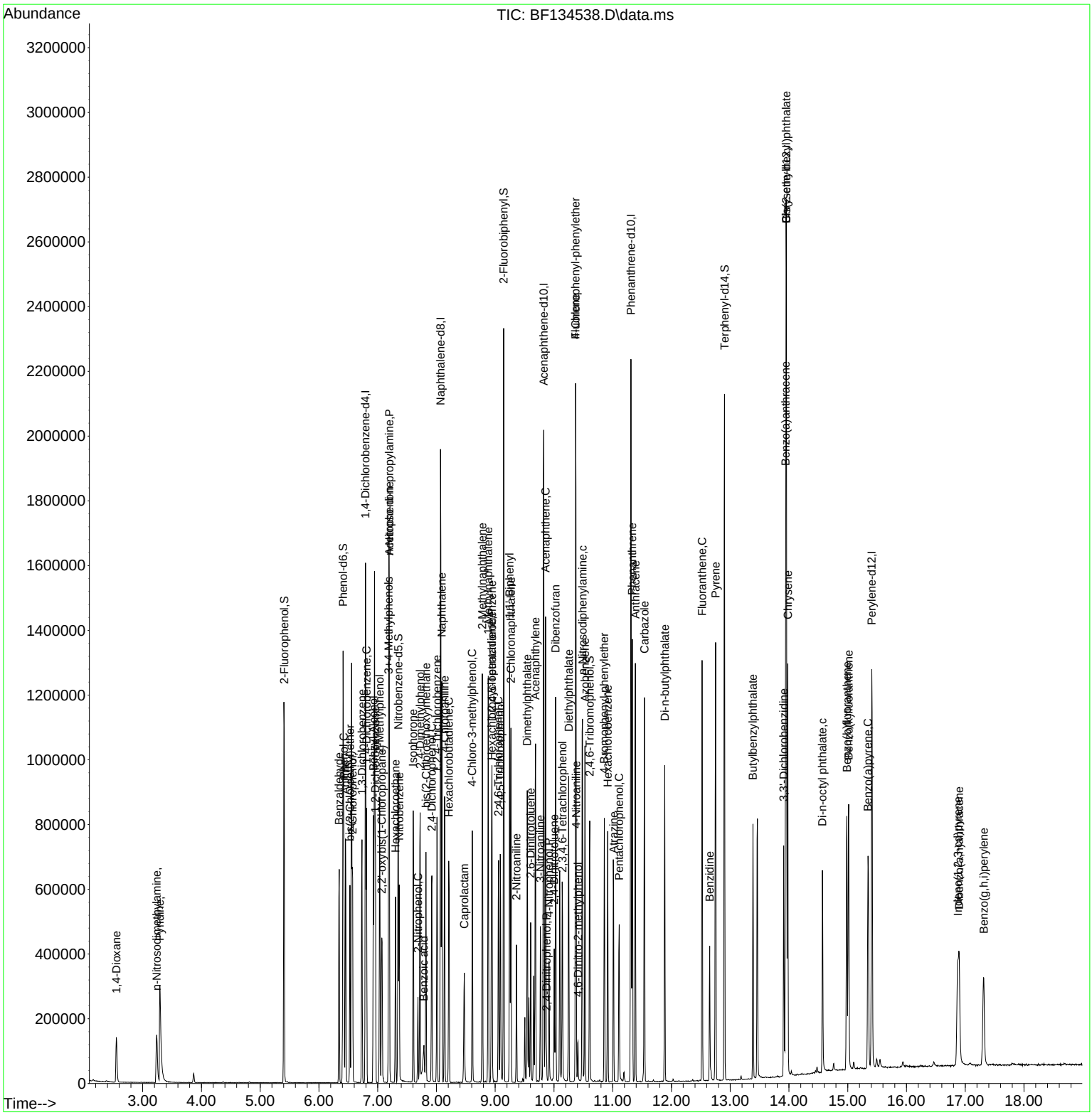
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080123\
Data File : BF134538.D
Acq On : 01 Aug 2023 08:54
Operator : CG\JU
Sample : SSTDICC010
Misc :
ALS Vial : 4 Sample Multiplier: 1

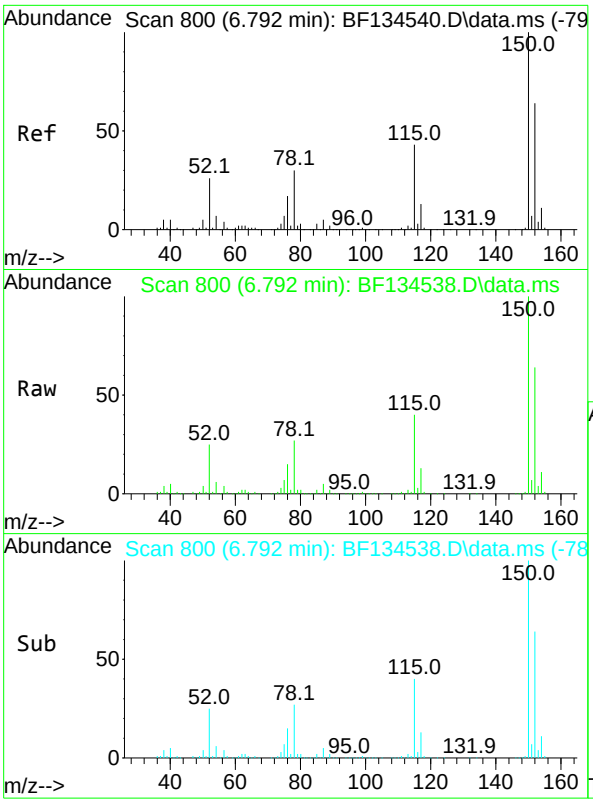
Quant Time: Aug 02 02:11:19 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 02 02:08:18 2023
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

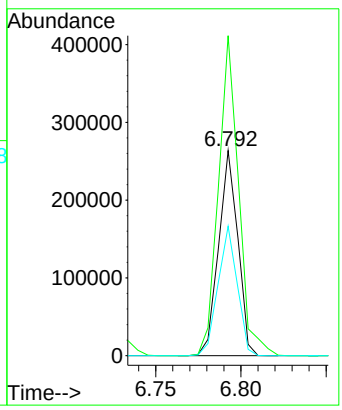




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.792 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF134538.D
Acq: 01 Aug 2023 08:54

Tgt Ion:152 Resp: 20659

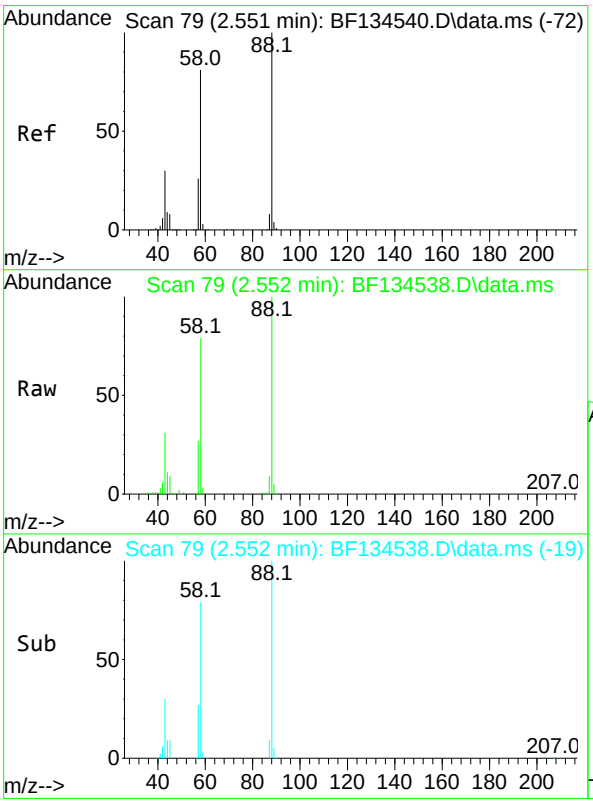
Ion	Ratio	Lower	Upper
152	100		
150	156.0	128.3	192.5
115	63.1	52.4	78.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

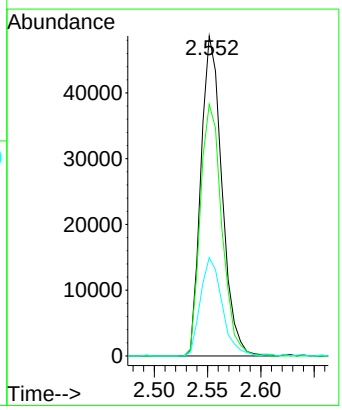
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

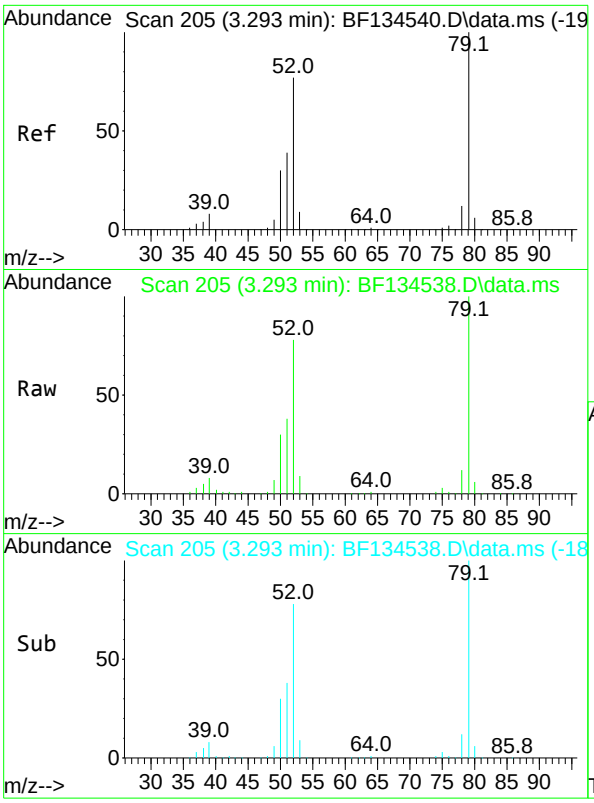


#2
1,4-Dioxane
Concen: 10.706 ng
RT: 2.552 min Scan# 79
Delta R.T. 0.000 min
Lab File: BF134538.D
Acq: 01 Aug 2023 08:54

Tgt Ion: 88 Resp: 66943

Ion	Ratio	Lower	Upper
88	100		
58	80.5	65.1	97.7
43	31.6	30.3	45.5

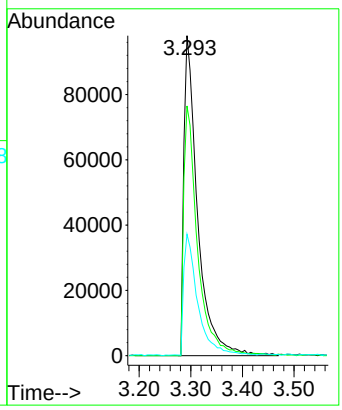




#3
Pyridine
Concen: 10.707 ng
RT: 3.293 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF134538.D
Acq: 01 Aug 2023 08:54

Tgt Ion: 79 Resp: 18142

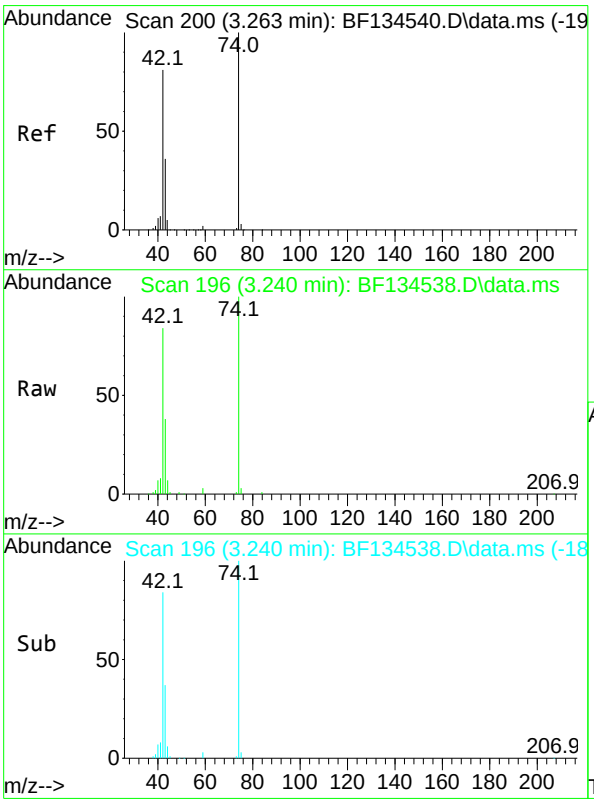
Ion	Ratio	Lower	Upper
79	100		
52	78.1	66.6	100.0
51	37.9	36.5	54.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

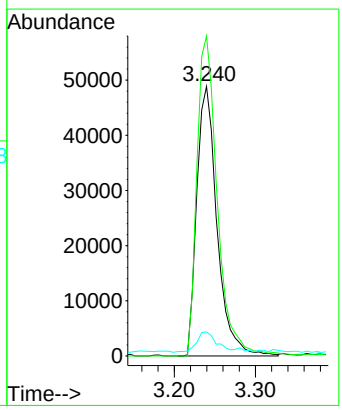
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

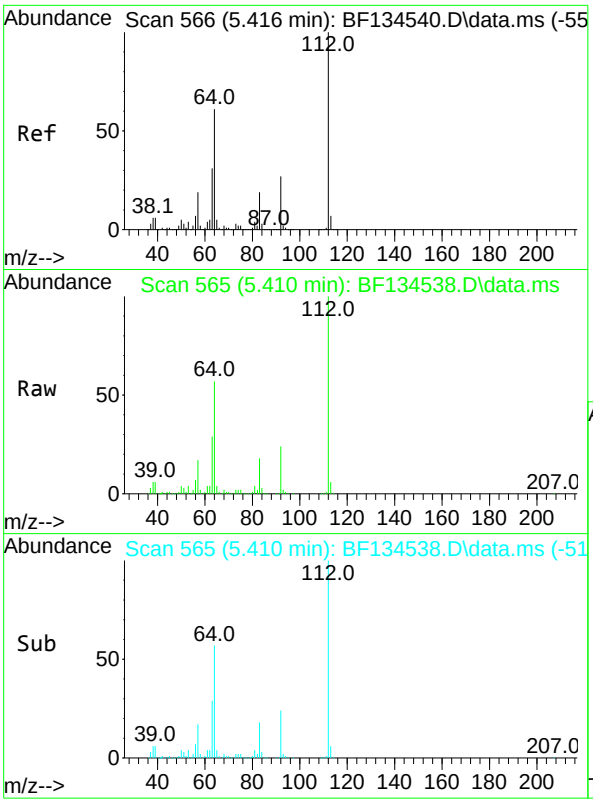


#4
n-Nitrosodimethylamine
Concen: 10.480 ng
RT: 3.240 min Scan# 196
Delta R.T. -0.023 min
Lab File: BF134538.D
Acq: 01 Aug 2023 08:54

Tgt Ion: 42 Resp: 84845

Ion	Ratio	Lower	Upper
42	100		
74	118.7	72.2	108.4#
44	8.9	5.4	8.0#





#5
2-Fluorophenol
Concen: 22.499 ng
RT: 5.410 min Scan# 5
Delta R.T. -0.006 min
Lab File: BF134538.D
Acq: 01 Aug 2023 08:54

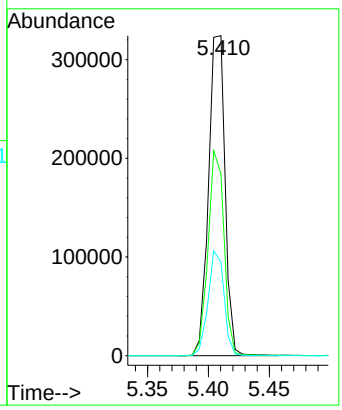
Tgt Ion:112 Resp: 30578

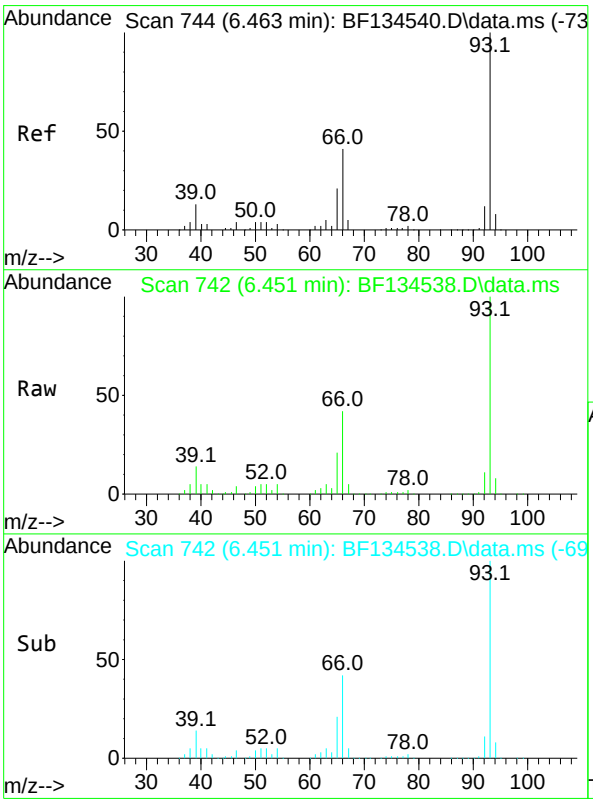
Ion	Ratio	Lower	Upper
112	100		
64	56.9	44.9	67.3
63	29.3	25.4	38.0

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

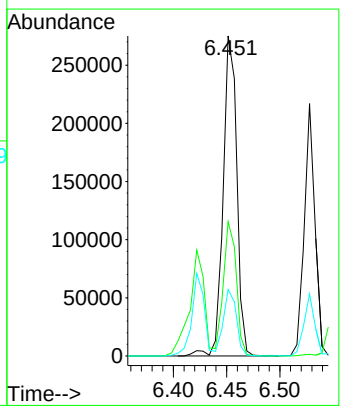


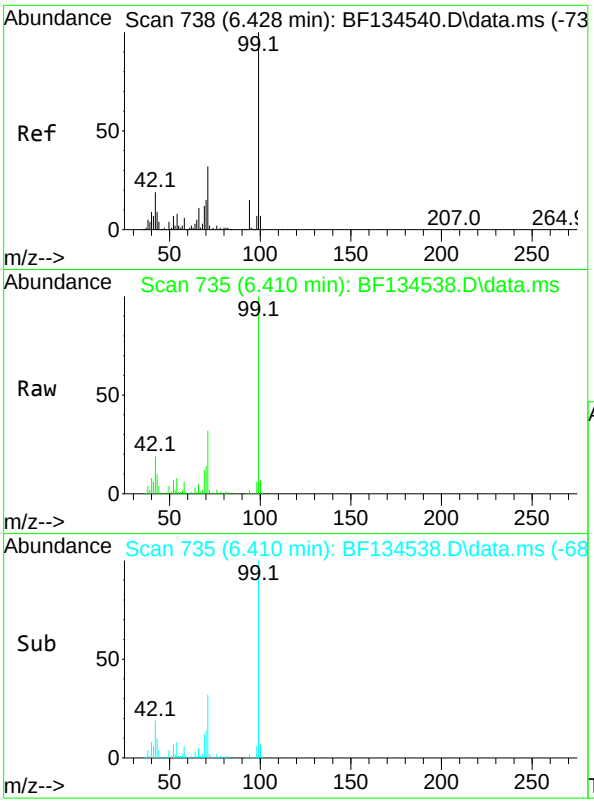


#6
Aniline
Concen: 10.754 ng
RT: 6.451 min Scan# 742
Delta R.T. -0.012 min
Lab File: BF134538.D
Acq: 01 Aug 2023 08:54

Tgt Ion: 93 Resp: 245063

Ion	Ratio	Lower	Upper
93	100		
66	41.9	36.8	55.2
65	20.7	19.4	29.0

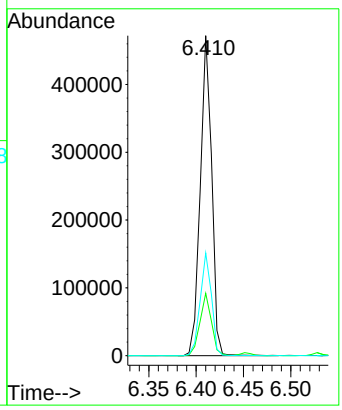




#7
Phenol-d6
Concen: 22.673 ng
RT: 6.410 min Scan# 7
Delta R.T. -0.018 min
Lab File: BF134538.D
Acq: 01 Aug 2023 08:54

Tgt Ion: 99 Resp: 39389

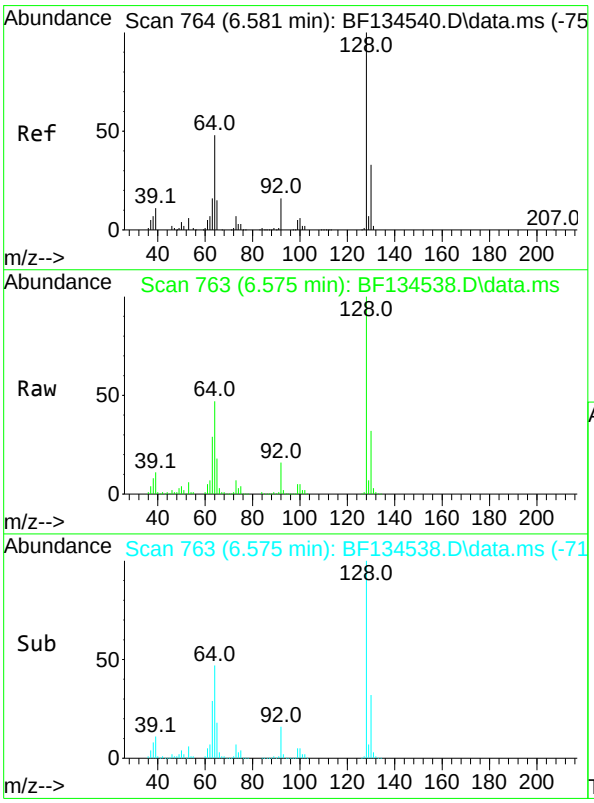
Ion	Ratio	Lower	Upper
99	100		
42	19.5	18.7	28.1
71	32.1	36.4	54.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

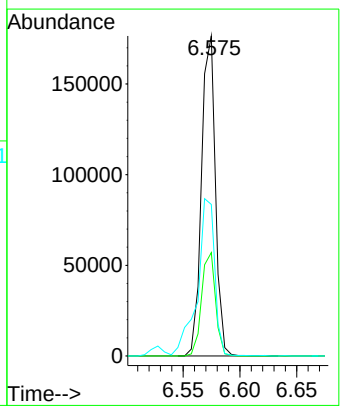
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

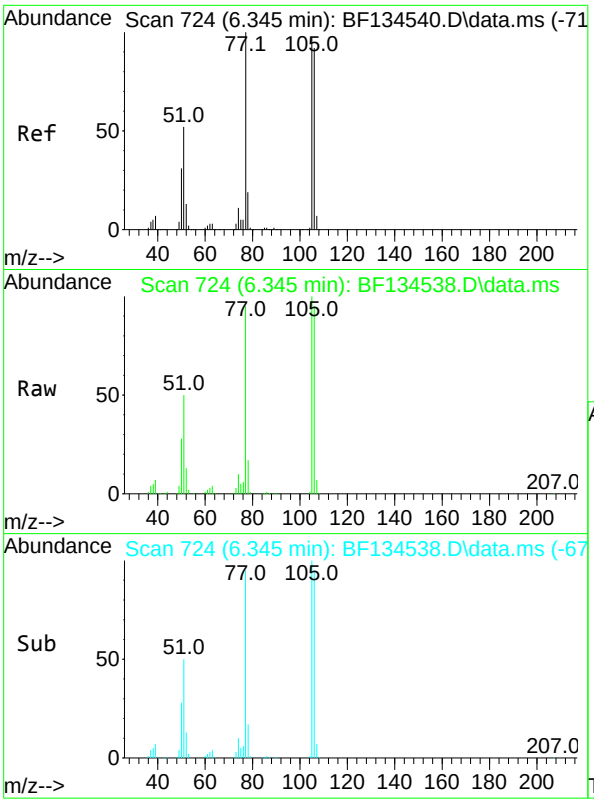


#8
2-Chlorophenol
Concen: 10.965 ng
RT: 6.575 min Scan# 763
Delta R.T. -0.006 min
Lab File: BF134538.D
Acq: 01 Aug 2023 08:54

Tgt Ion:128 Resp: 150330

Ion	Ratio	Lower	Upper
128	100		
130	32.3	11.1	51.1
64	47.3	31.9	71.9

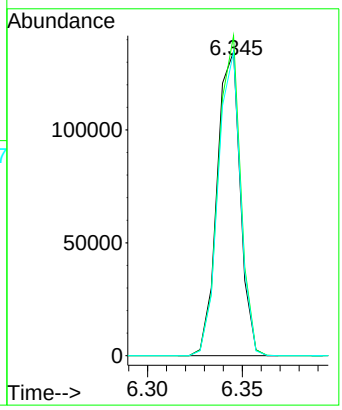




#9
Benzaldehyde
Concen: 10.069 ng
RT: 6.345 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF134538.D
Acq: 01 Aug 2023 08:54

Tgt Ion: 77 Resp: 11436

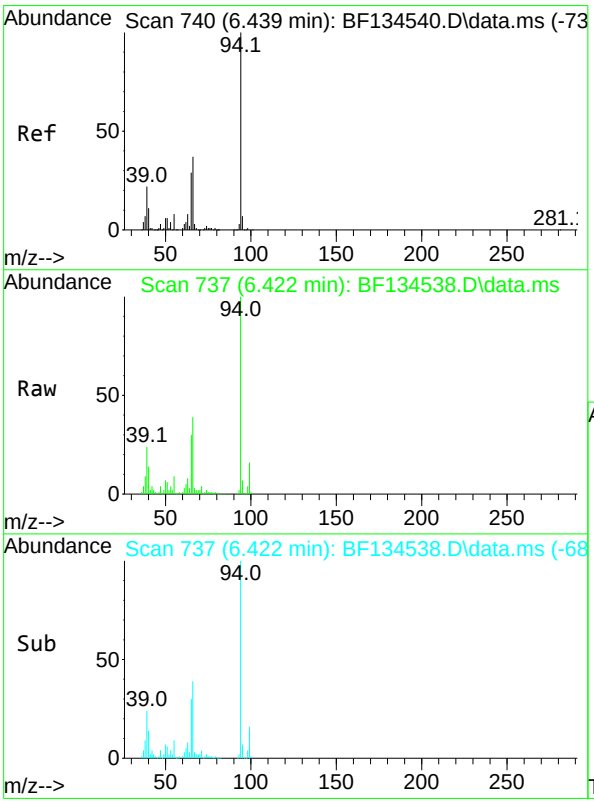
Ion	Ratio	Lower	Upper
77	100		
105	105.3	77.1	117.1
106	99.9	71.4	111.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

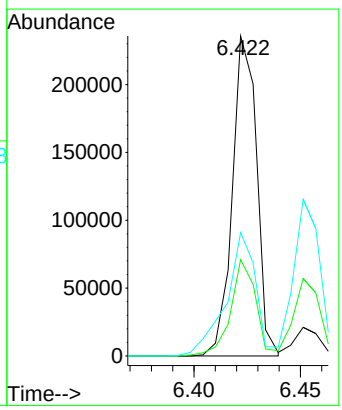
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

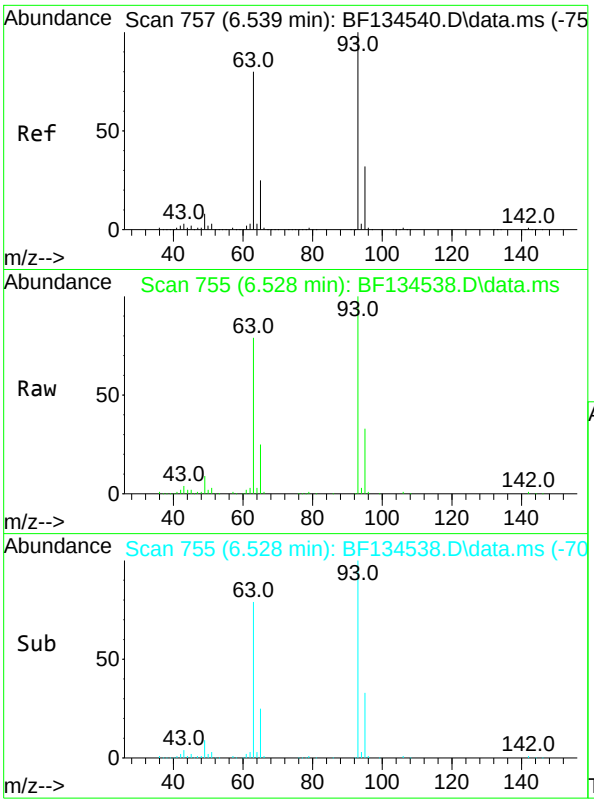


#10
Phenol
Concen: 10.959 ng
RT: 6.422 min Scan# 737
Delta R.T. -0.018 min
Lab File: BF134538.D
Acq: 01 Aug 2023 08:54

Tgt Ion: 94 Resp: 187635

Ion	Ratio	Lower	Upper
94	100		
65	30.1	17.8	57.8
66	38.6	35.2	75.2

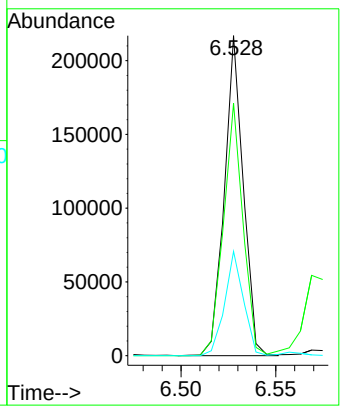




#11
bis(2-Chloroethyl)ether
Concen: 11.093 ng
RT: 6.528 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF134538.D
Acq: 01 Aug 2023 08:54

Tgt Ion: 93 Resp: 15086

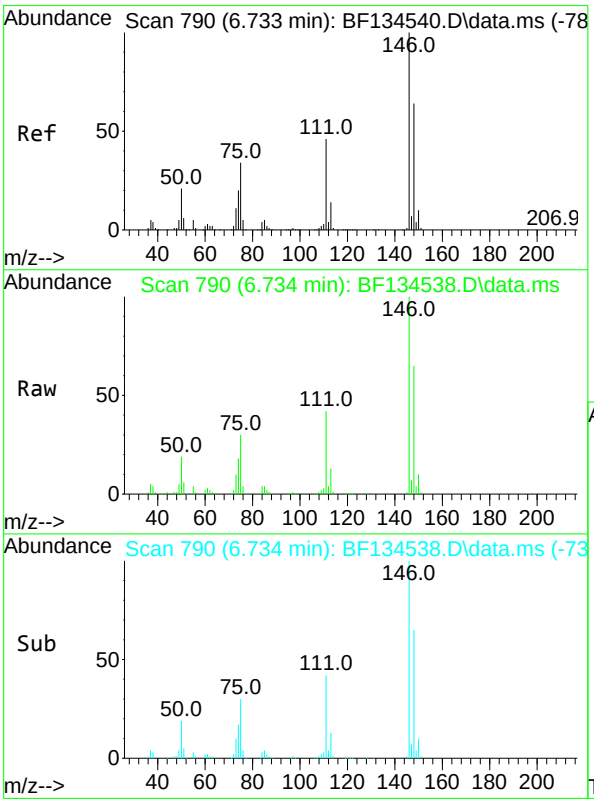
Ion	Ratio	Lower	Upper
93	100		
63	78.9	68.4	108.4
95	32.6	12.4	52.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

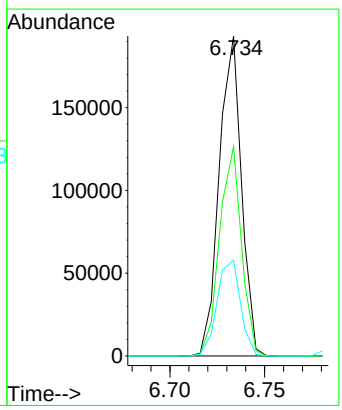
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

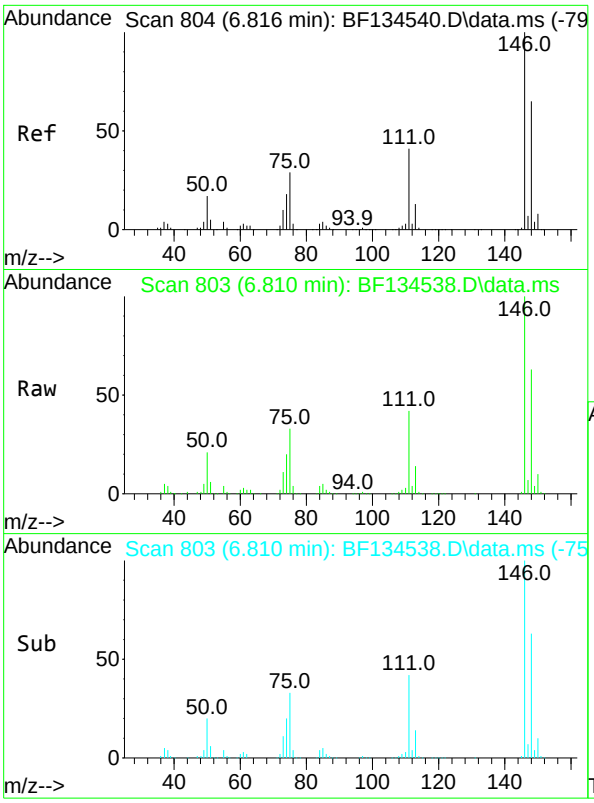


#12
1,3-Dichlorobenzene
Concen: 11.133 ng
RT: 6.734 min Scan# 790
Delta R.T. 0.000 min
Lab File: BF134538.D
Acq: 01 Aug 2023 08:54

Tgt Ion:146 Resp: 157923

Ion	Ratio	Lower	Upper
146	100		
148	65.4	49.7	74.5
75	30.0	29.5	44.3

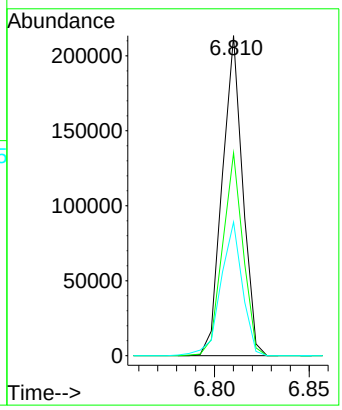




#13
1,4-Dichlorobenzene
Concen: 11.217 ng
RT: 6.810 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF134538.D
Acq: 01 Aug 2023 08:54

Tgt Ion:146 Resp: 15945

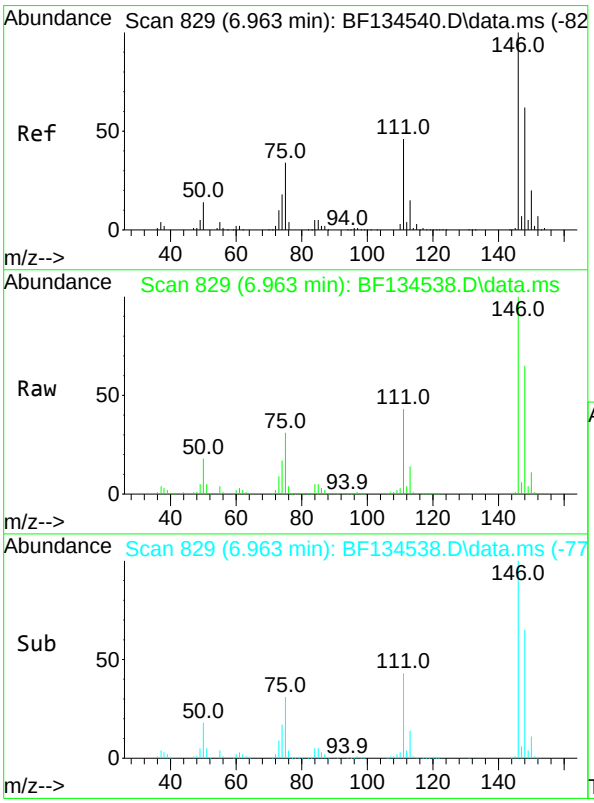
Ion	Ratio	Lower	Upper
146	100		
148	63.4	51.3	76.9
111	41.7	36.6	55.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

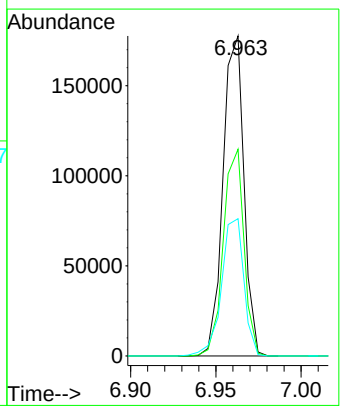
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

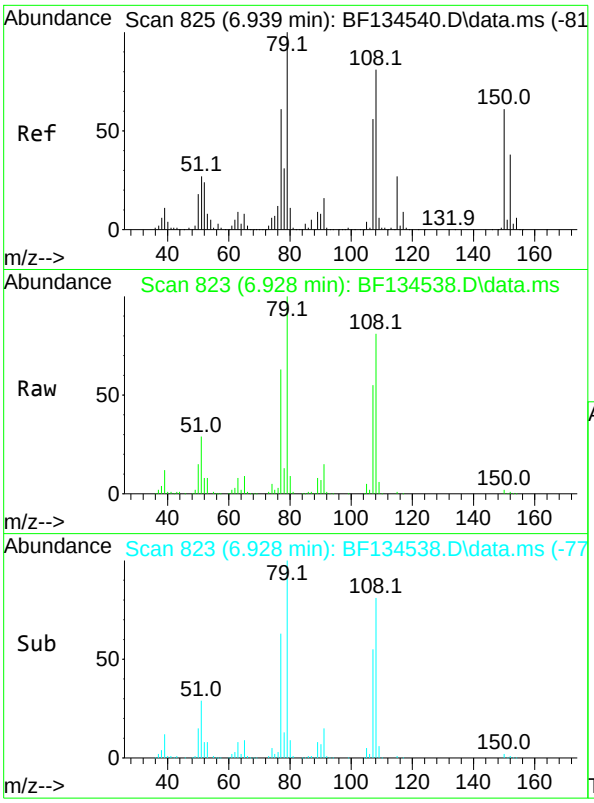


#14
1,2-Dichlorobenzene
Concen: 11.469 ng
RT: 6.963 min Scan# 829
Delta R.T. 0.000 min
Lab File: BF134538.D
Acq: 01 Aug 2023 08:54

Tgt Ion:146 Resp: 151915

Ion	Ratio	Lower	Upper
146	100		
148	64.6	51.2	76.8
111	42.9	39.9	59.9

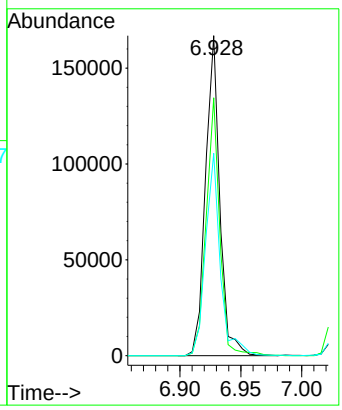




#15
Benzyl Alcohol
Concen: 11.355 ng
RT: 6.928 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF134538.D
Acq: 01 Aug 2023 08:54

Tgt Ion: 79 Resp: 13608

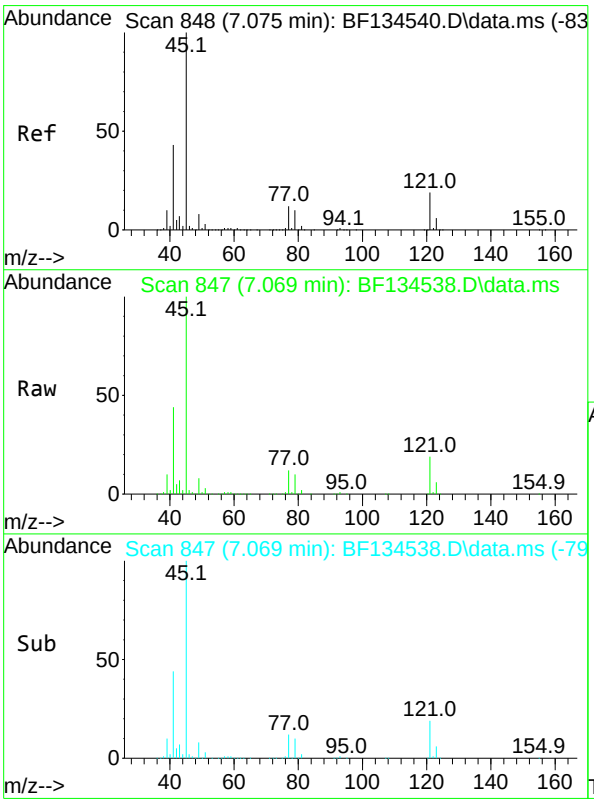
Ion	Ratio	Lower	Upper
79	100		
108	80.6	56.3	84.5
77	63.3	50.6	76.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

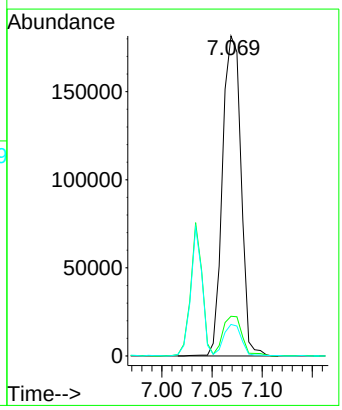
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

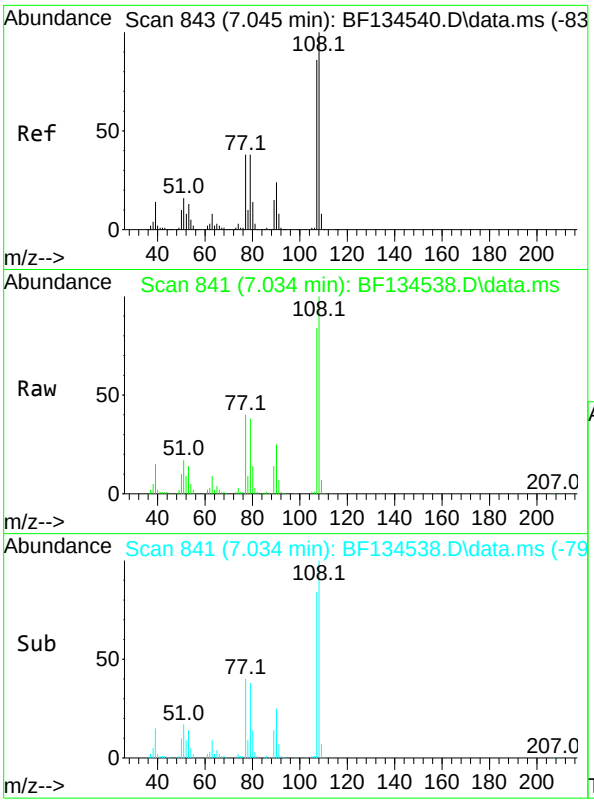


#16
2,2'-oxybis(1-Chloropropane)
Concen: 10.889 ng
RT: 7.069 min Scan# 847
Delta R.T. -0.006 min
Lab File: BF134538.D
Acq: 01 Aug 2023 08:54

Tgt Ion: 45 Resp: 232024

Ion	Ratio	Lower	Upper
45	100		
77	12.4	0.0	37.8
79	9.9	0.0	34.5

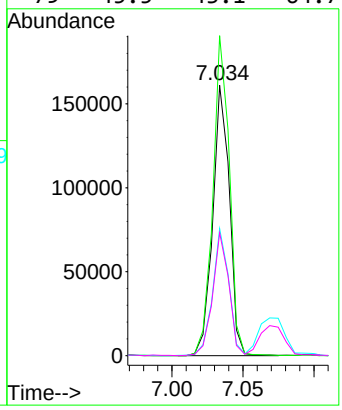




#17
2-Methylphenol
Concen: 10.864 ng
RT: 7.034 min Scan# 84
Delta R.T. -0.012 min
Lab File: BF134538.D
Acq: 01 Aug 2023 08:54

Tgt Ion:107 Resp: 13162

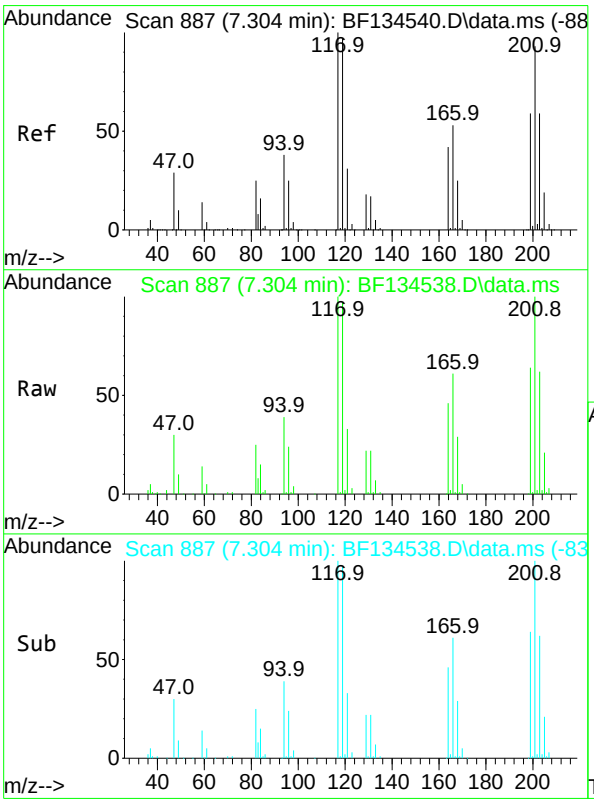
Ion	Ratio	Lower	Upper
107	100		
108	118.4	89.4	134.2
77	47.0	42.4	63.6
79	45.5	43.1	64.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

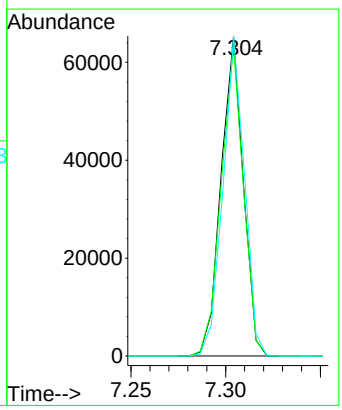
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

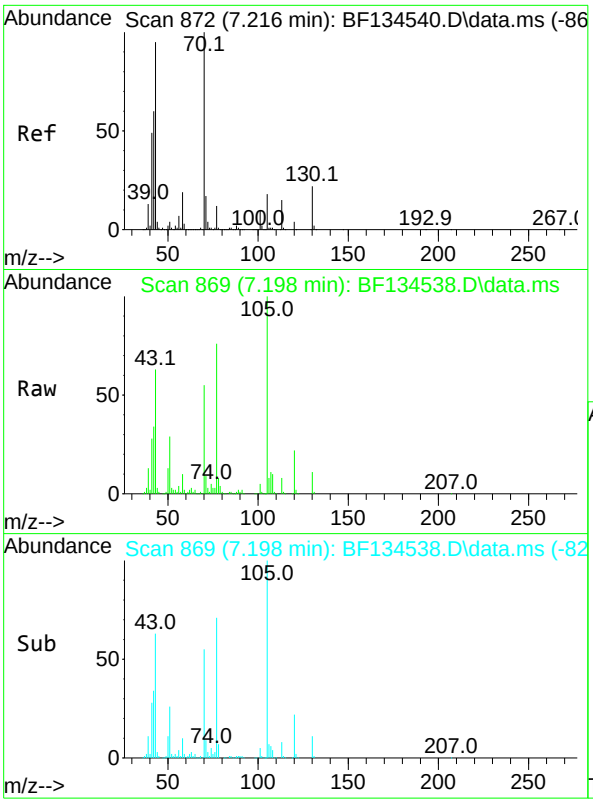


#18
Hexachloroethane
Concen: 10.646 ng
RT: 7.304 min Scan# 887
Delta R.T. 0.000 min
Lab File: BF134538.D
Acq: 01 Aug 2023 08:54

Tgt Ion:117 Resp: 53118

Ion	Ratio	Lower	Upper
117	100		
119	96.9	75.8	113.8
201	100.1	73.6	110.4

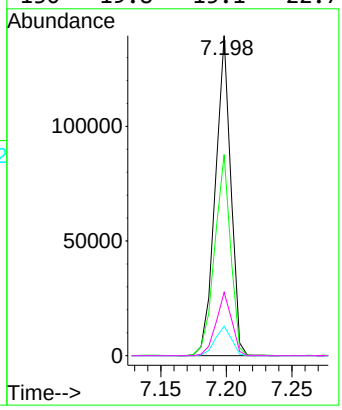




#19
n-Nitroso-di-n-propylamine
Concen: 11.002 ng
RT: 7.198 min Scan# 8
Delta R.T. -0.018 min
Lab File: BF134538.D
Acq: 01 Aug 2023 08:54

Tgt Ion: 70 Resp: 11443

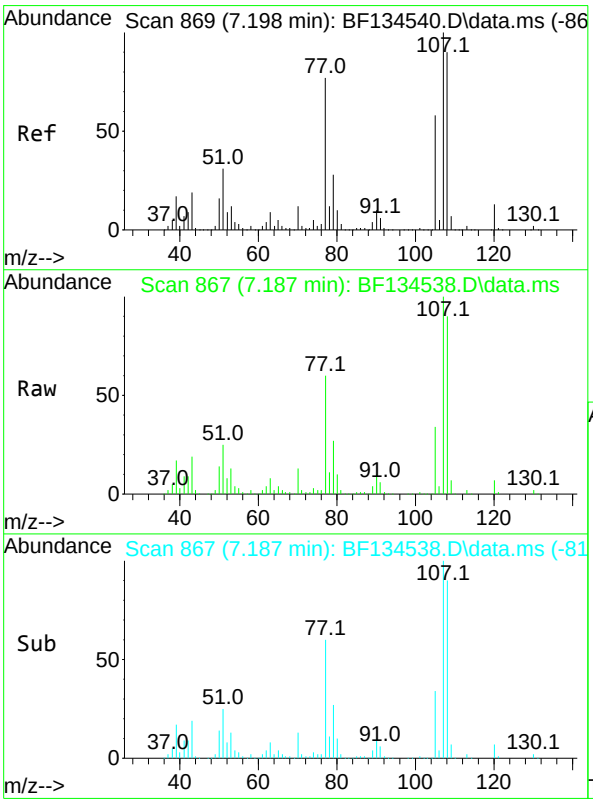
Ion	Ratio	Lower	Upper
70	100		
42	62.9	54.7	82.1
101	9.3	8.2	12.2
130	19.8	15.1	22.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

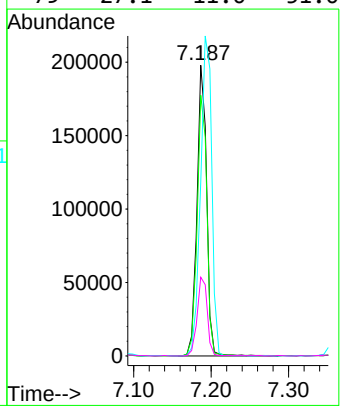
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

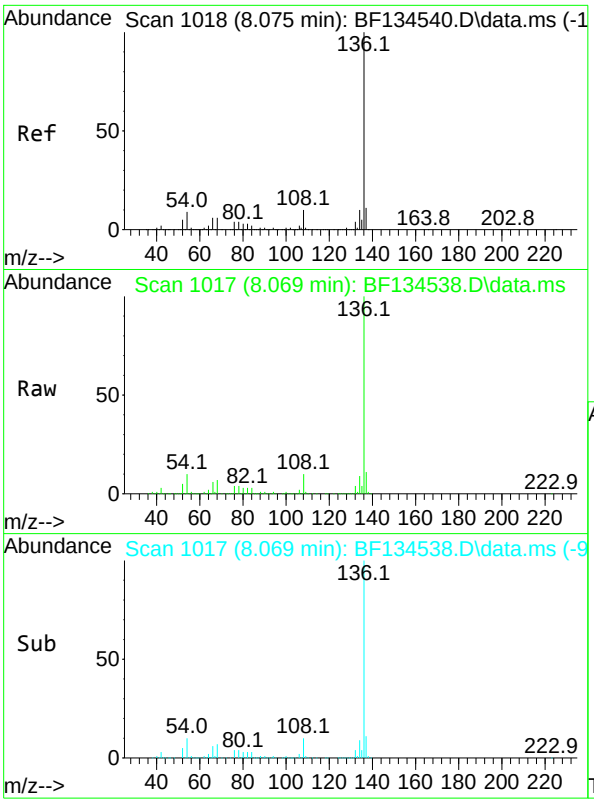


#20
3+4-Methylphenols
Concen: 11.747 ng
RT: 7.187 min Scan# 867
Delta R.T. -0.012 min
Lab File: BF134538.D
Acq: 01 Aug 2023 08:54

Tgt Ion:107 Resp: 171634

Ion	Ratio	Lower	Upper
107	100		
108	89.6	68.1	108.1
77	59.8	122.1	162.1#
79	27.1	11.0	51.0

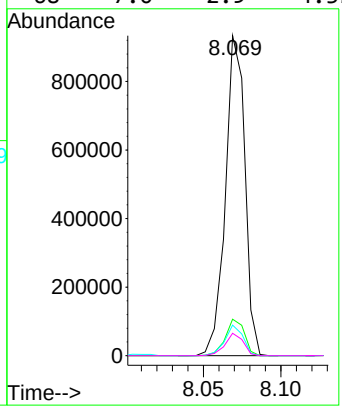




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.069 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF134538.D
Acq: 01 Aug 2023 08:54

Tgt Ion:136 Resp: 81554

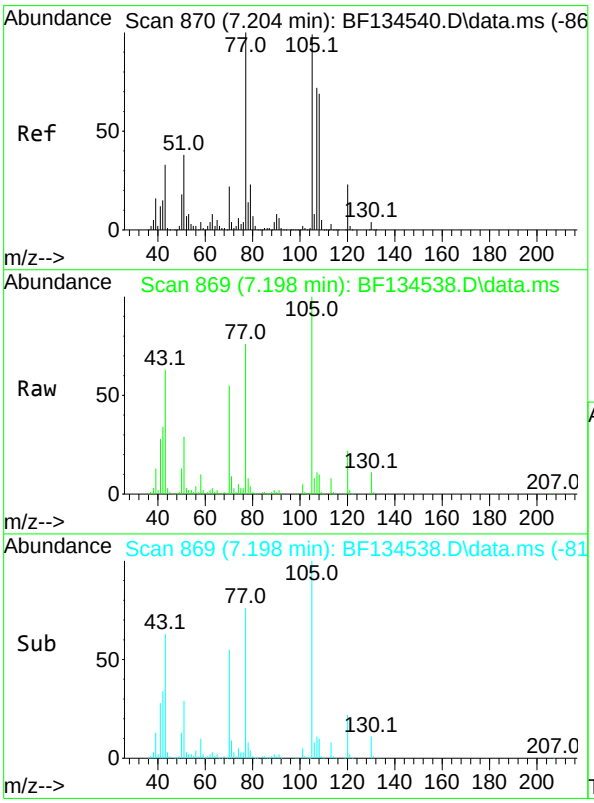
Ion	Ratio	Lower	Upper
136	100		
137	11.4	8.4	12.6
54	9.6	5.2	7.8#
68	7.0	2.9	4.3#



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

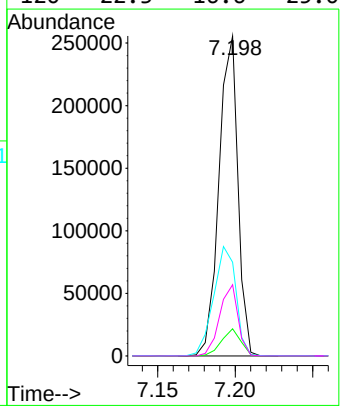
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

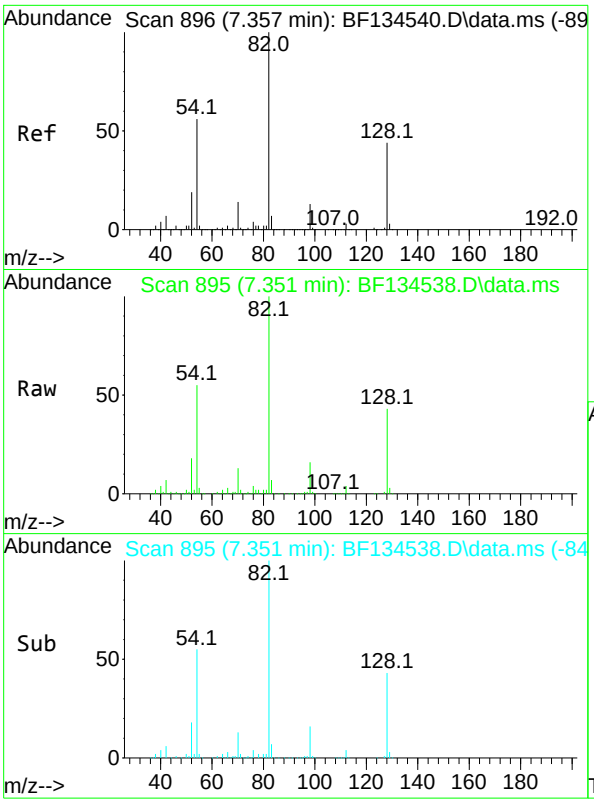


#22
Acetophenone
Concen: 11.540 ng
RT: 7.198 min Scan# 869
Delta R.T. -0.006 min
Lab File: BF134538.D
Acq: 01 Aug 2023 08:54

Tgt Ion:105 Resp: 217267

Ion	Ratio	Lower	Upper
105	100		
71	8.5	7.4	11.0
51	29.3	36.4	54.6#
120	22.3	16.6	25.0

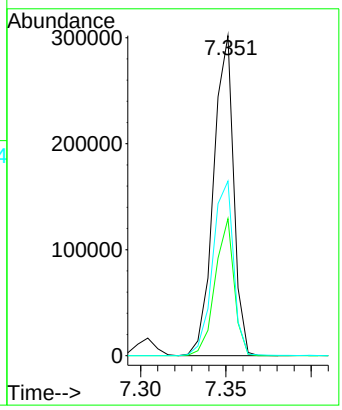




#23
Nitrobenzene-d5
Concen: 18.991 ng
RT: 7.351 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF134538.D
Acq: 01 Aug 2023 08:54

Tgt Ion: 82 Resp: 24783

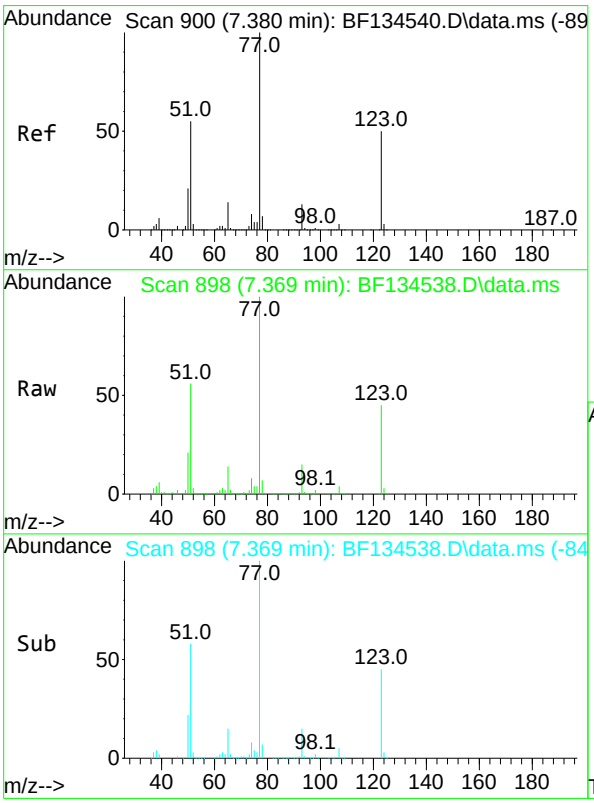
Ion	Ratio	Lower	Upper
82	100		
128	42.8	34.3	51.5
54	54.5	43.8	65.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

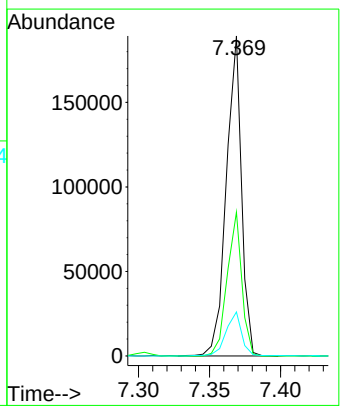
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

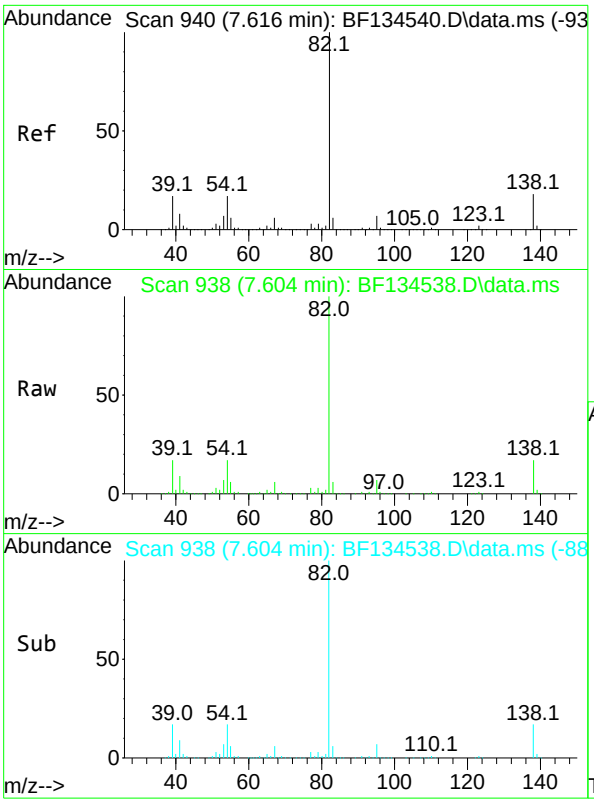


#24
Nitrobenzene
Concen: 10.002 ng
RT: 7.369 min Scan# 898
Delta R.T. -0.012 min
Lab File: BF134538.D
Acq: 01 Aug 2023 08:54

Tgt Ion: 77 Resp: 141016

Ion	Ratio	Lower	Upper
77	100		
123	45.0	35.5	53.3
65	13.7	11.9	17.9

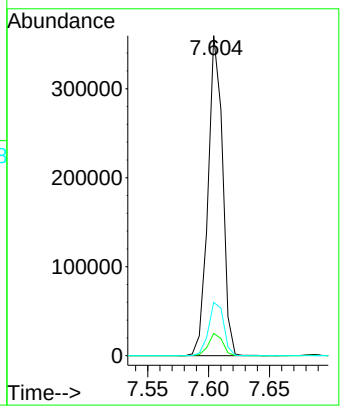




#25
Isophorone
Concen: 10.489 ng
RT: 7.604 min Scan# 9
Delta R.T. -0.012 min
Lab File: BF134538.D
Acq: 01 Aug 2023 08:54

Tgt Ion: 82 Resp: 29856

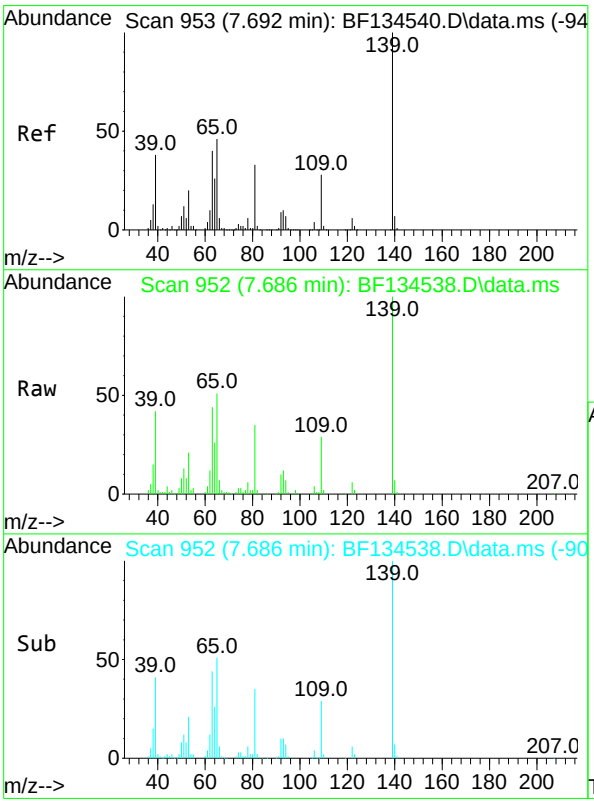
Ion	Ratio	Lower	Upper
82	100		
95	7.0	6.0	9.0
138	16.6	14.6	22.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

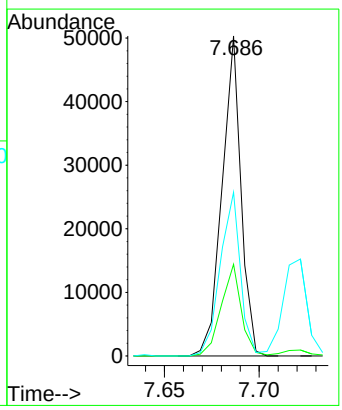
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

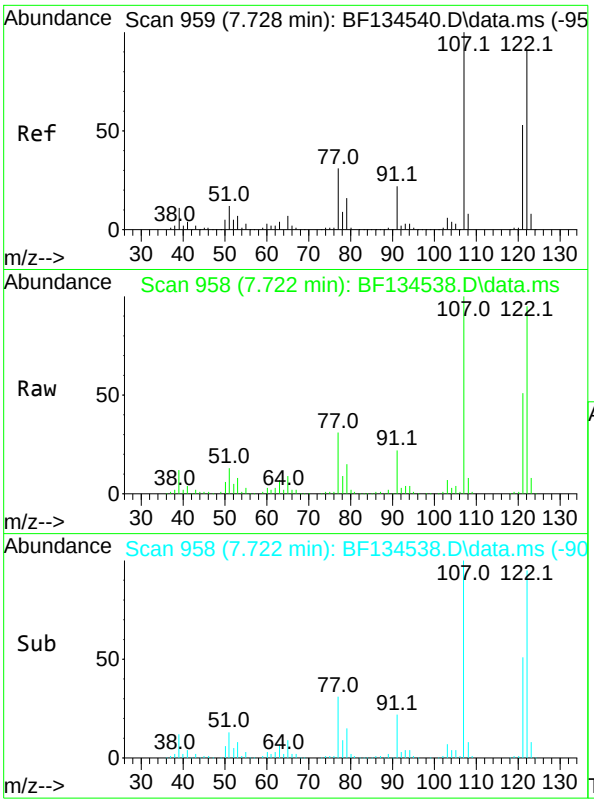


#26
2-Nitrophenol
Concen: 10.039 ng
RT: 7.686 min Scan# 952
Delta R.T. -0.006 min
Lab File: BF134538.D
Acq: 01 Aug 2023 08:54

Tgt Ion:139 Resp: 34966

Ion	Ratio	Lower	Upper
139	100		
109	28.7	29.8	44.6#
65	51.1	45.4	68.2

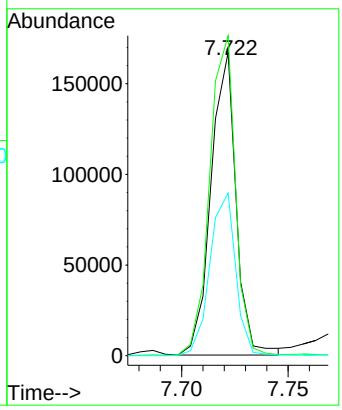




#27
2,4-Dimethylphenol
Concen: 10.770 ng
RT: 7.722 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF134538.D
Acq: 01 Aug 2023 08:54

Tgt Ion:122 Resp: 13679

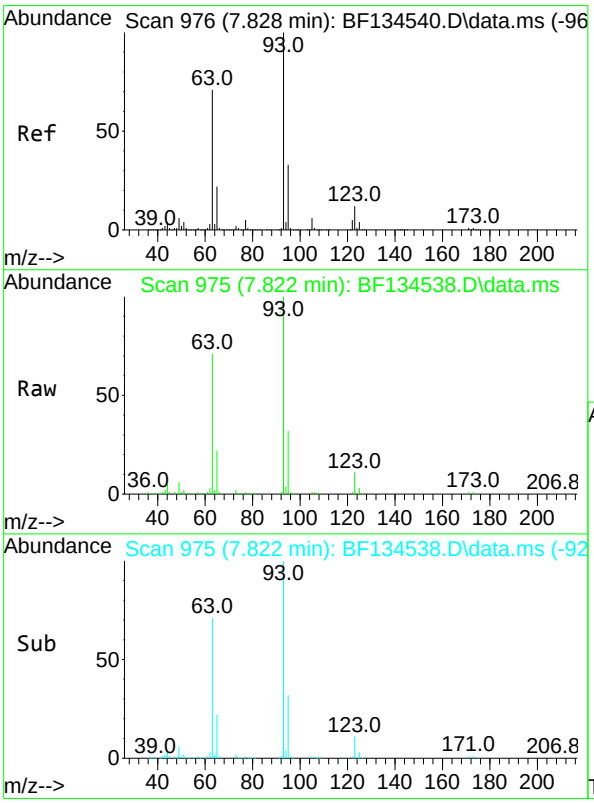
Ion	Ratio	Lower	Upper
122	100		
107	105.5	106.7	160.1#
121	53.6	49.0	73.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

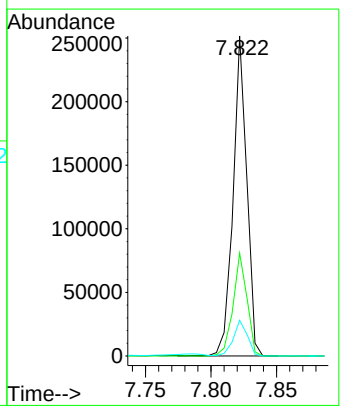
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

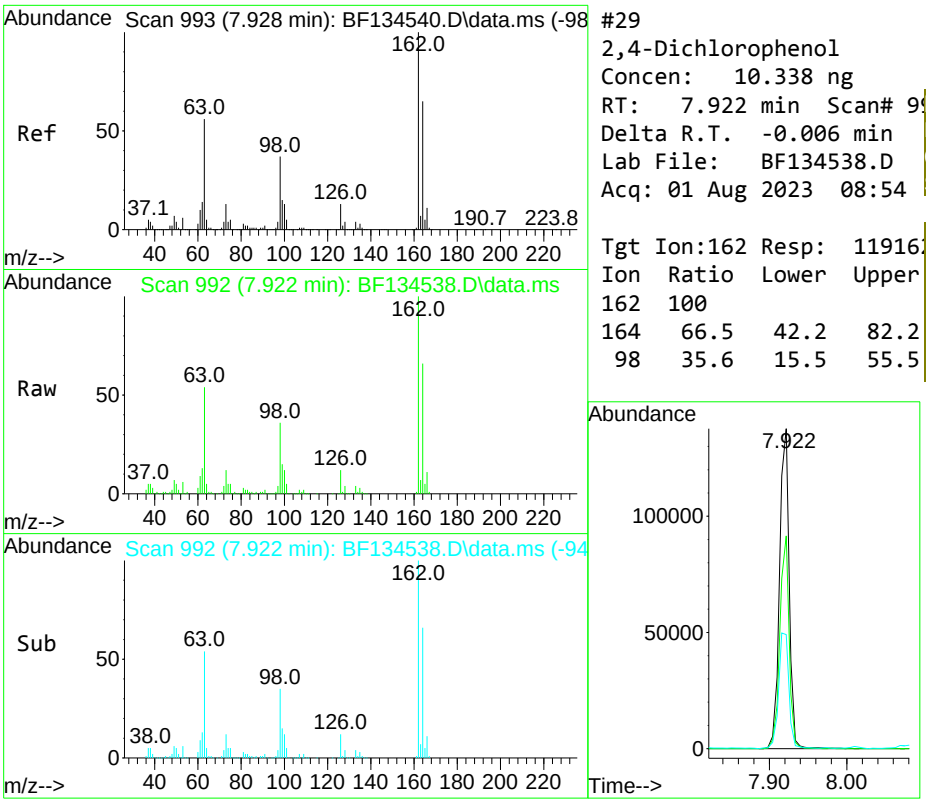


#28
bis(2-Chloroethoxy)methane
Concen: 10.761 ng
RT: 7.822 min Scan# 975
Delta R.T. -0.006 min
Lab File: BF134538.D
Acq: 01 Aug 2023 08:54

Tgt Ion: 93 Resp: 183230

Ion	Ratio	Lower	Upper
93	100		
95	32.2	26.5	39.7
123	11.1	9.6	14.4





#29
2,4-Dichlorophenol
Concen: 10.338 ng
RT: 7.922 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF134538.D
Acq: 01 Aug 2023 08:54

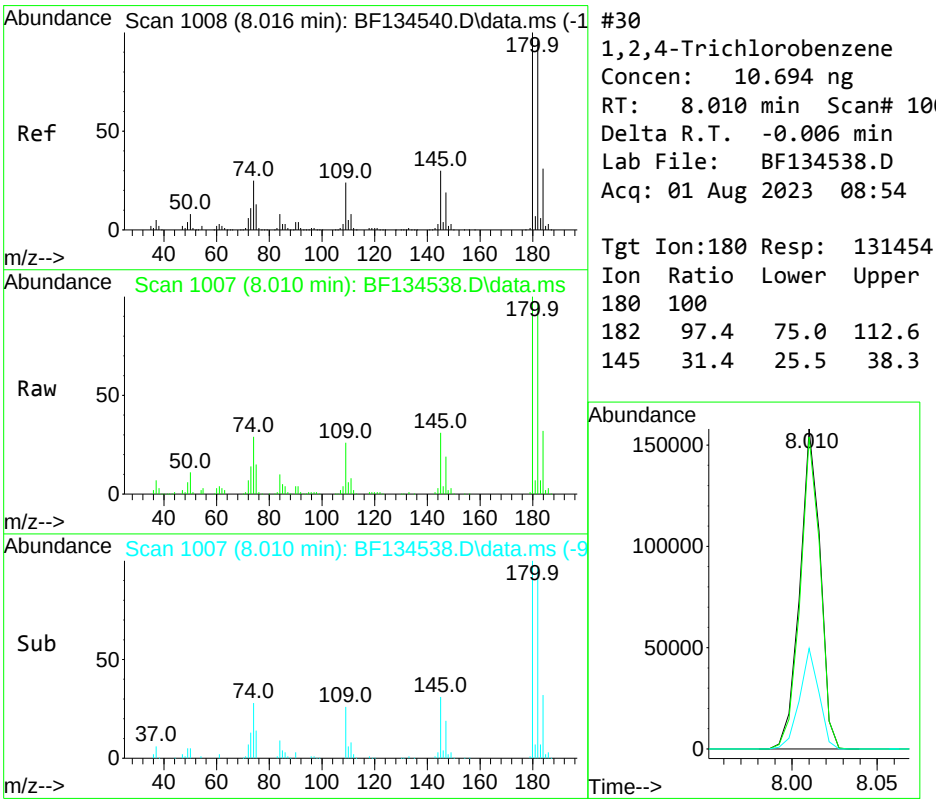
Tgt Ion:162 Resp: 11916

Ion	Ratio	Lower	Upper
162	100		
164	66.5	42.2	82.2
98	35.6	15.5	55.5

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

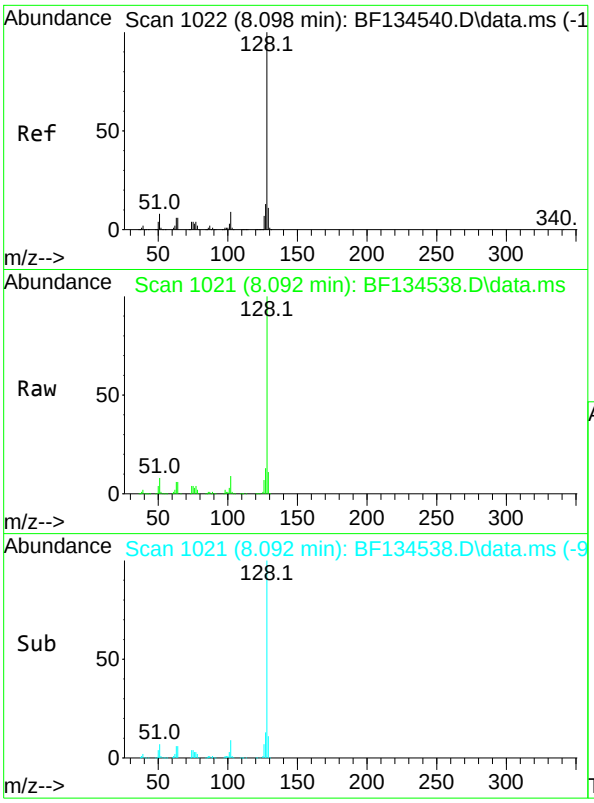
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023



#30
1,2,4-Trichlorobenzene
Concen: 10.694 ng
RT: 8.010 min Scan# 1007
Delta R.T. -0.006 min
Lab File: BF134538.D
Acq: 01 Aug 2023 08:54

Tgt Ion:180 Resp: 131454

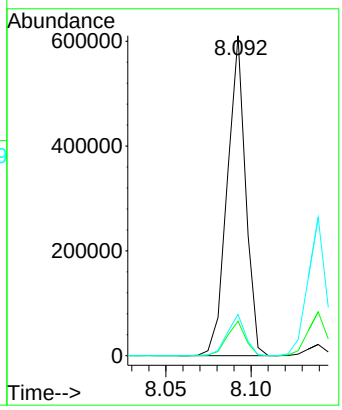
Ion	Ratio	Lower	Upper
180	100		
182	97.4	75.0	112.6
145	31.4	25.5	38.3



#31
Naphthalene
Concen: 11.162 ng
RT: 8.092 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF134538.D
Acq: 01 Aug 2023 08:54

Tgt Ion:128 Resp: 45749

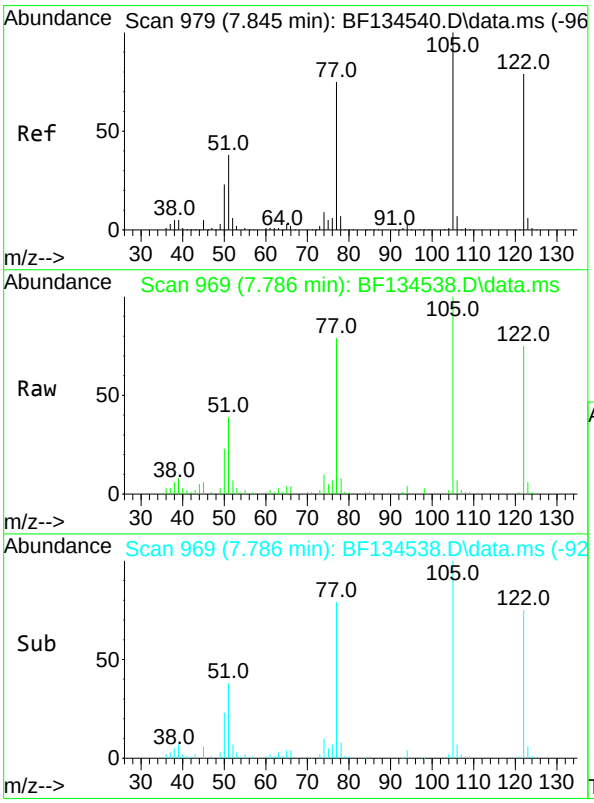
Ion	Ratio	Lower	Upper
128	100		
129	10.7	8.4	12.6
127	12.9	10.7	16.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

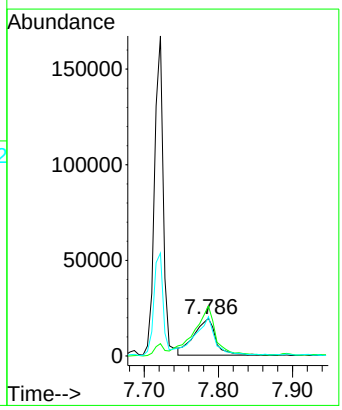
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

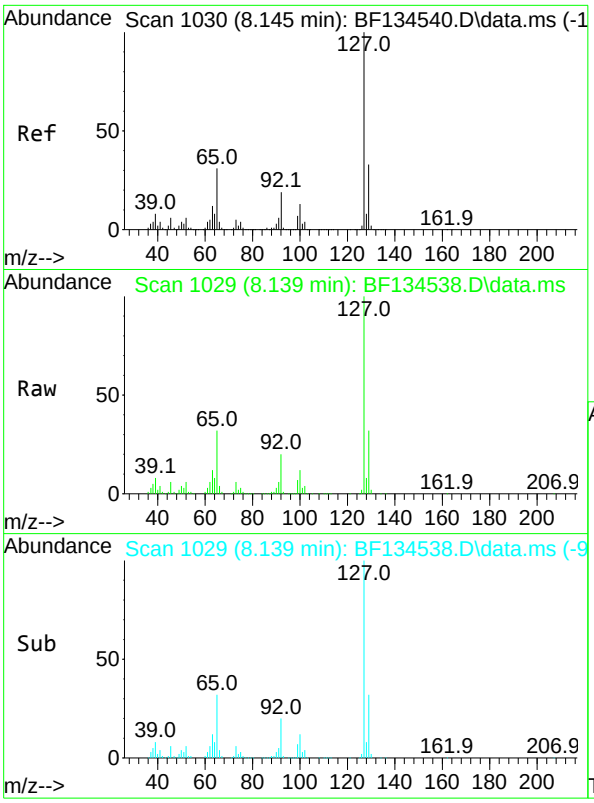


#32
Benzoic acid
Concen: 11.859 ng
RT: 7.786 min Scan# 969
Delta R.T. -0.059 min
Lab File: BF134538.D
Acq: 01 Aug 2023 08:54

Tgt Ion:122 Resp: 39556

Ion	Ratio	Lower	Upper
122	100		
105	132.8	87.5	127.5#
77	104.4	71.4	111.4

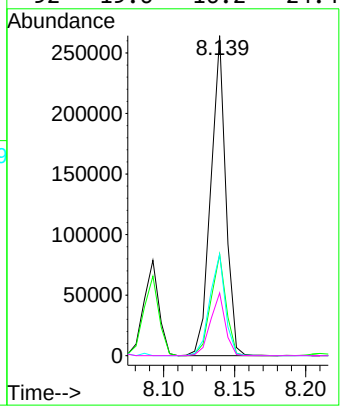




#33
4-Chloroaniline
Concen: 10.599 ng
RT: 8.139 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF134538.D
Acq: 01 Aug 2023 08:54

Tgt Ion:127 Resp: 19356

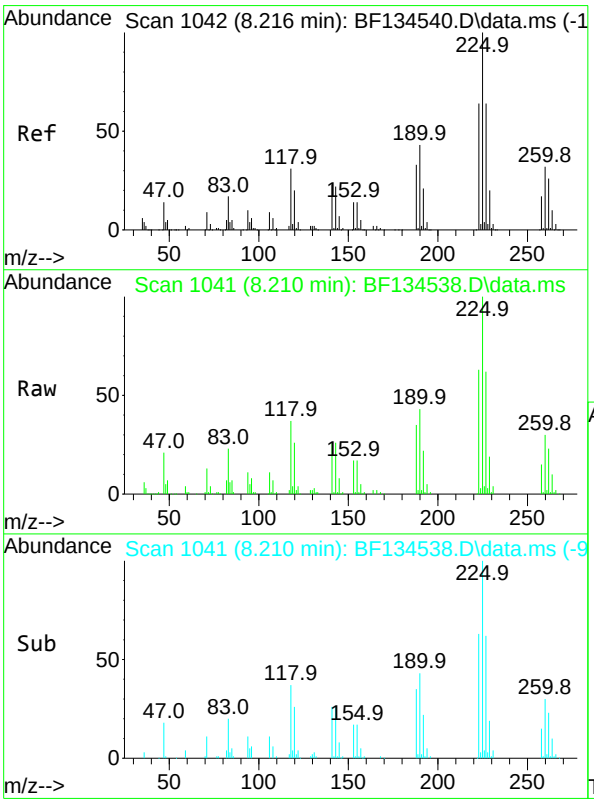
Ion	Ratio	Lower	Upper
127	100		
129	31.7	25.6	38.4
65	31.7	25.4	38.0
92	19.6	16.2	24.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

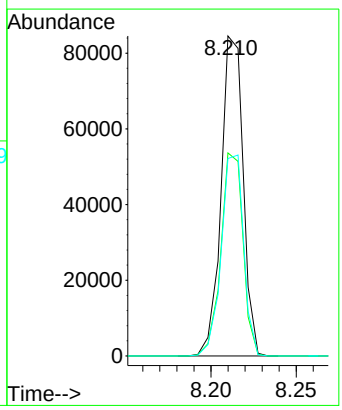
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

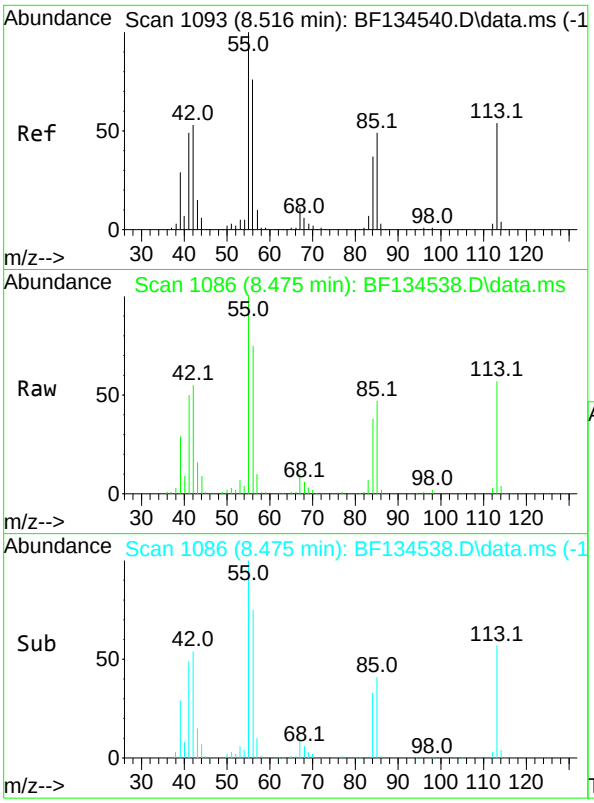


#34
Hexachlorobutadiene
Concen: 10.704 ng
RT: 8.210 min Scan# 1041
Delta R.T. -0.006 min
Lab File: BF134538.D
Acq: 01 Aug 2023 08:54

Tgt Ion:225 Resp: 75898

Ion	Ratio	Lower	Upper
225	100		
223	63.4	48.2	72.4
227	61.7	48.5	72.7

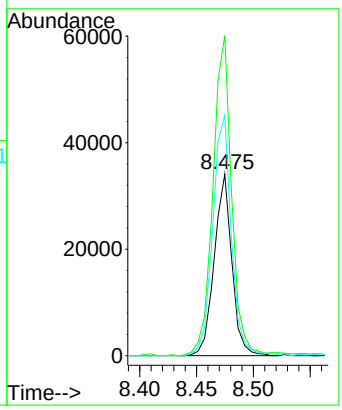




#35
Caprolactam
Concen: 9.905 ng
RT: 8.475 min Scan# 1
Delta R.T. -0.041 min
Lab File: BF134538.D
Acq: 01 Aug 2023 08:54

Tgt Ion:113 Resp: 3684

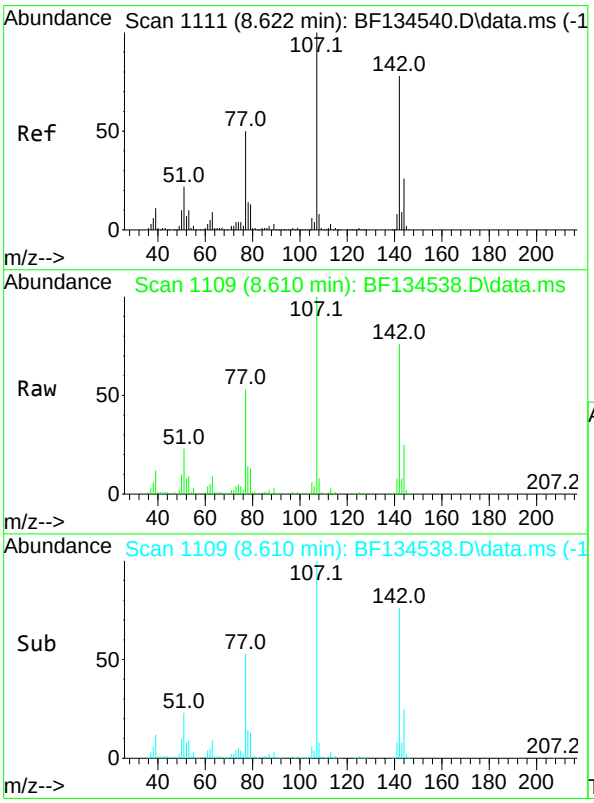
Ion	Ratio	Lower	Upper
113	100		
55	176.2	161.5	201.5
56	132.5	117.8	157.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

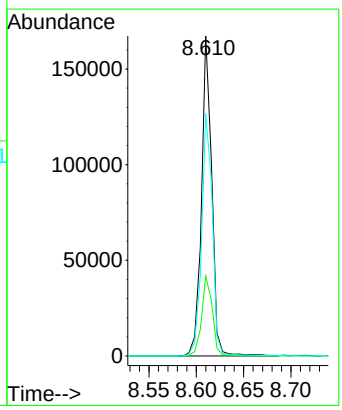
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

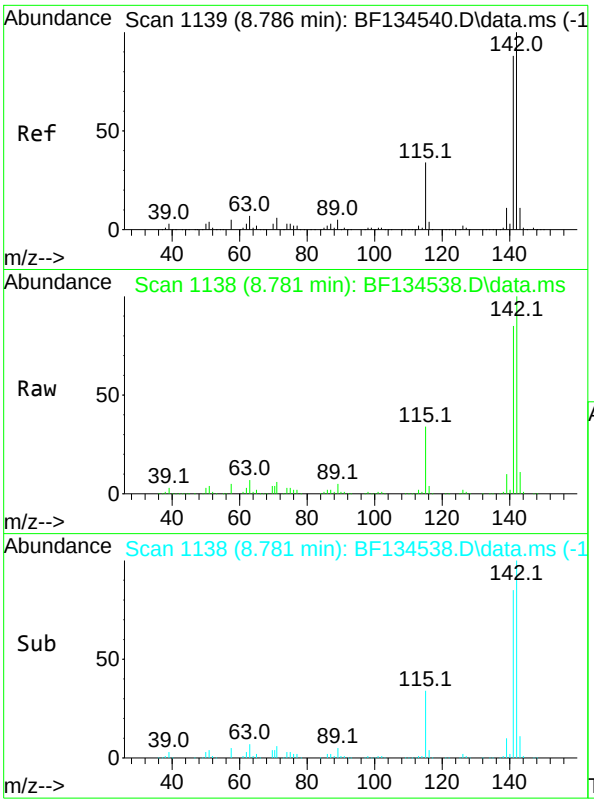


#36
4-Chloro-3-methylphenol
Concen: 10.385 ng
RT: 8.610 min Scan# 1109
Delta R.T. -0.012 min
Lab File: BF134538.D
Acq: 01 Aug 2023 08:54

Tgt Ion:107 Resp: 126770

Ion	Ratio	Lower	Upper
107	100		
144	25.0	19.6	29.4
142	75.8	57.7	86.5

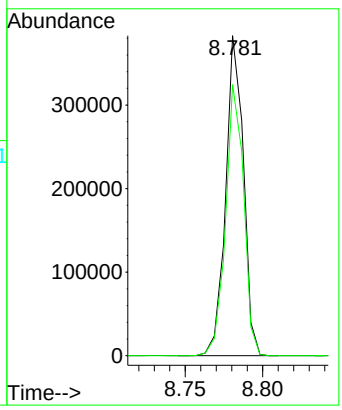




#37
2-Methylnaphthalene
Concen: 11.236 ng
RT: 8.781 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF134538.D
Acq: 01 Aug 2023 08:54

Tgt Ion:142 Resp: 30527

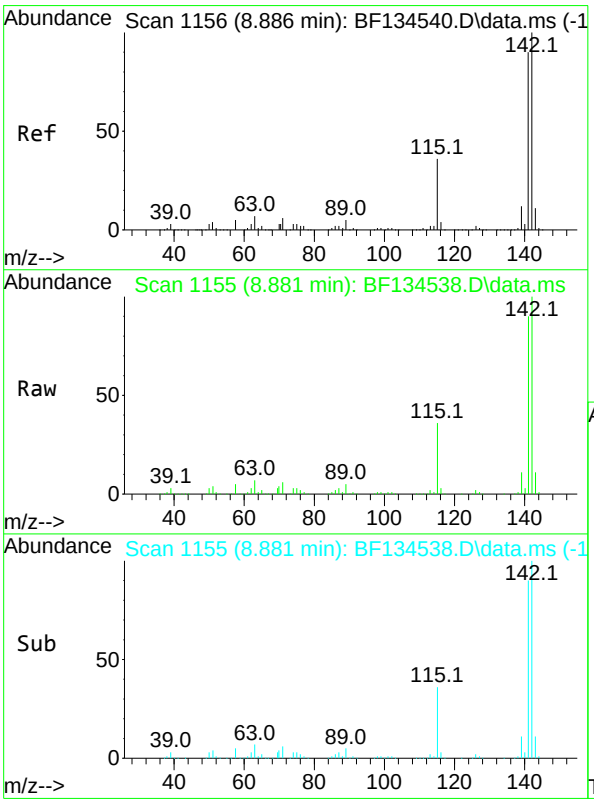
Ion	Ratio	Lower	Upper
142	100		
141	84.7	70.8	106.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

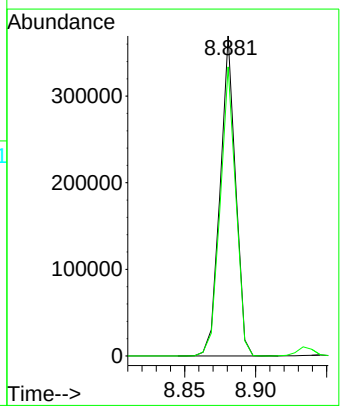
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

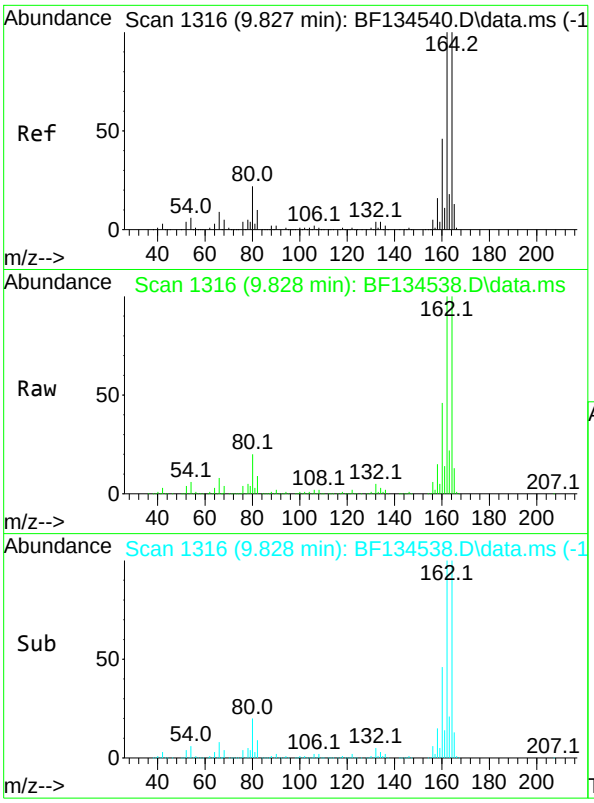


#38
1-Methylnaphthalene
Concen: 11.031 ng
RT: 8.881 min Scan# 1155
Delta R.T. -0.006 min
Lab File: BF134538.D
Acq: 01 Aug 2023 08:54

Tgt Ion:142 Resp: 278687

Ion	Ratio	Lower	Upper
142	100		
141	90.4	71.4	107.2

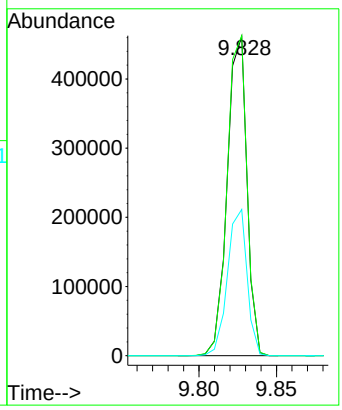




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.828 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134538.D
Acq: 01 Aug 2023 08:54

Tgt Ion:164 Resp: 40854

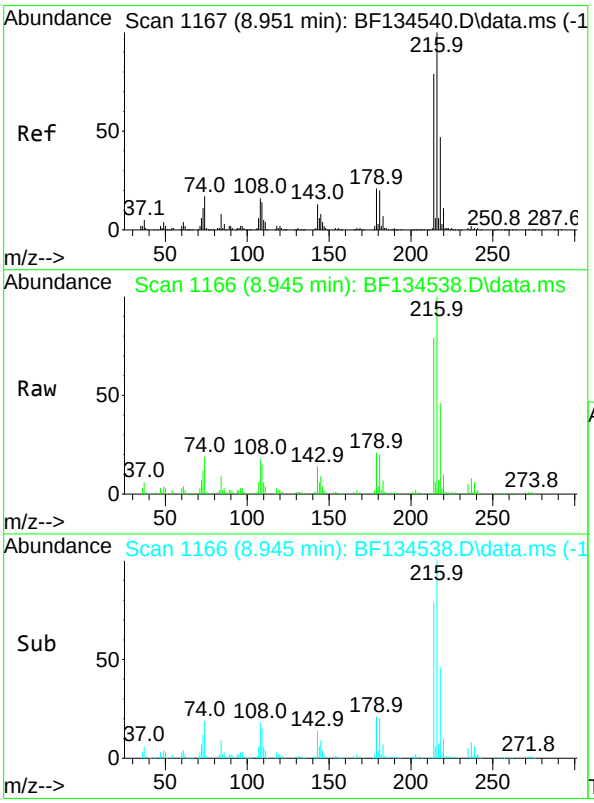
Ion	Ratio	Lower	Upper
164	100		
162	100.3	82.6	123.8
160	45.8	37.2	55.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

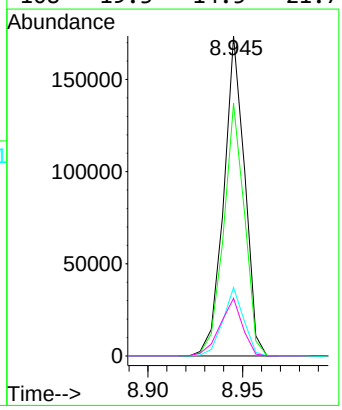
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

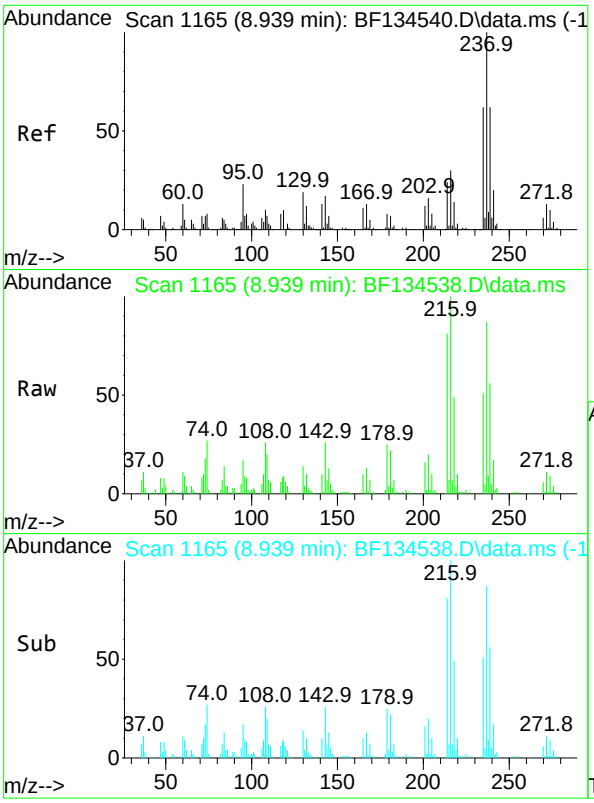


#40
1,2,4,5-Tetrachlorobenzene
Concen: 11.205 ng
RT: 8.945 min Scan# 1166
Delta R.T. -0.006 min
Lab File: BF134538.D
Acq: 01 Aug 2023 08:54

Tgt Ion:216 Resp: 133117

Ion	Ratio	Lower	Upper
216	100		
214	78.7	62.3	93.5
179	21.2	17.4	26.0
108	19.3	14.5	21.7

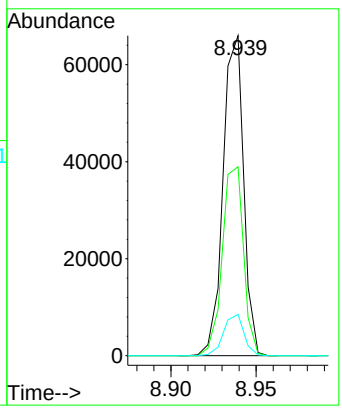




#41
Hexachlorocyclopentadiene
Concen: 9.583 ng
RT: 8.939 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134538.D
Acq: 01 Aug 2023 08:54

Tgt Ion:237 Resp: 5536

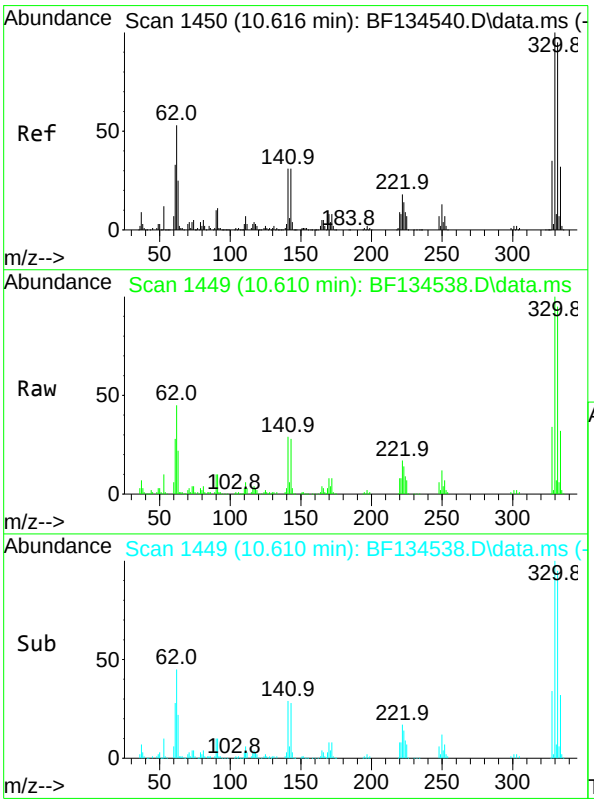
Ion	Ratio	Lower	Upper
237	100		
235	59.1	37.0	77.0
272	12.9	0.0	32.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

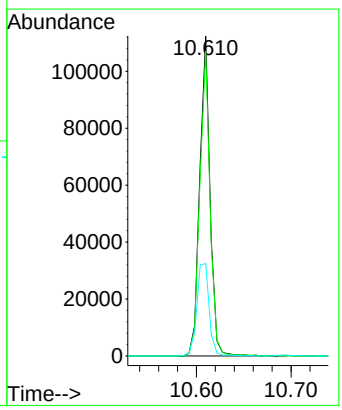
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

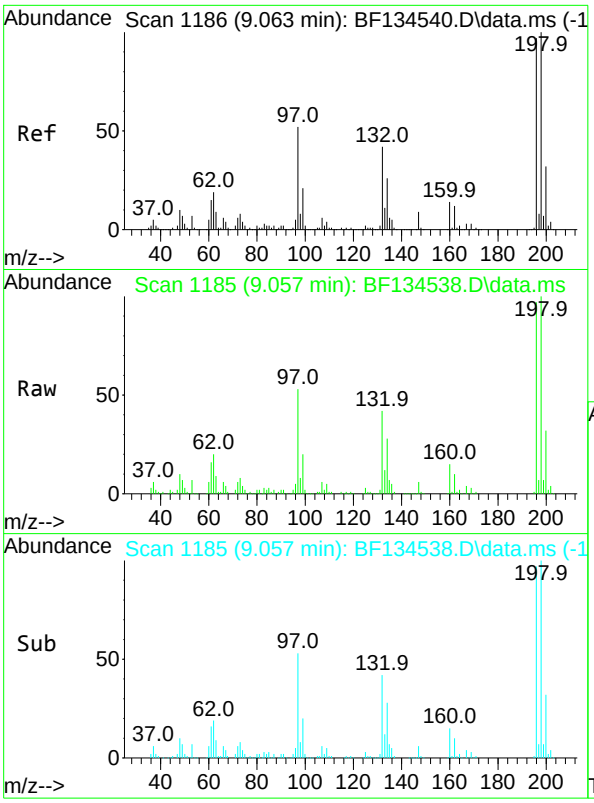


#42
2,4,6-Tribromophenol
Concen: 20.510 ng
RT: 10.610 min Scan# 1449
Delta R.T. -0.006 min
Lab File: BF134538.D
Acq: 01 Aug 2023 08:54

Tgt Ion:330 Resp: 85418

Ion	Ratio	Lower	Upper
330	100		
332	95.0	78.8	118.2
141	34.6	25.4	38.2

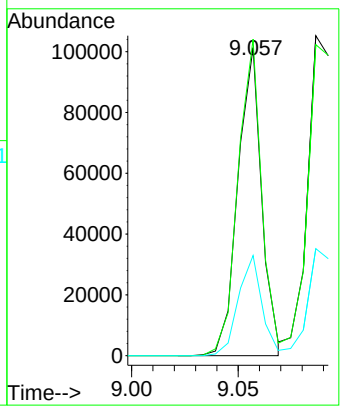




#43
2,4,6-Trichlorophenol
Concen: 10.134 ng
RT: 9.057 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF134538.D
Acq: 01 Aug 2023 08:54

Tgt Ion:196 Resp: 7878

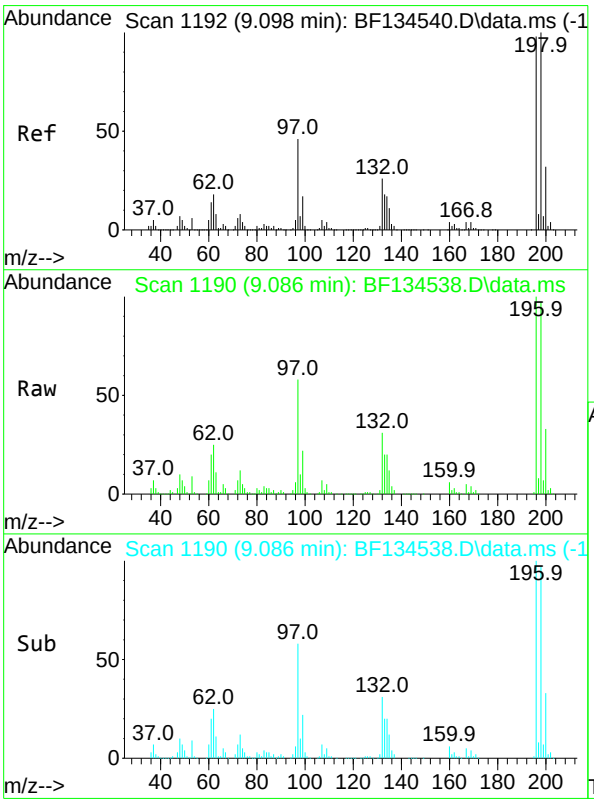
Ion	Ratio	Lower	Upper
196	100		
198	102.7	77.4	116.2
200	32.5	25.4	38.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

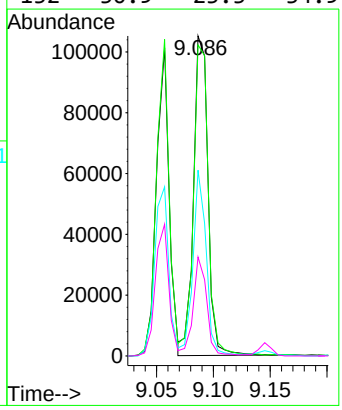
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

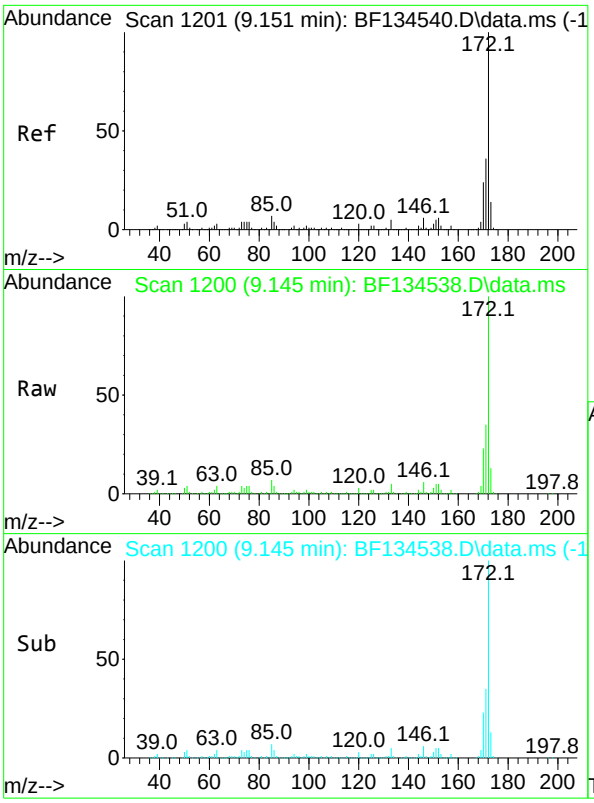


#44
2,4,5-Trichlorophenol
Concen: 10.503 ng
RT: 9.086 min Scan# 1190
Delta R.T. -0.012 min
Lab File: BF134538.D
Acq: 01 Aug 2023 08:54

Tgt Ion:196 Resp: 93334

Ion	Ratio	Lower	Upper
196	100		
198	97.2	73.0	109.4
97	58.1	40.8	61.2
132	30.9	23.3	34.9

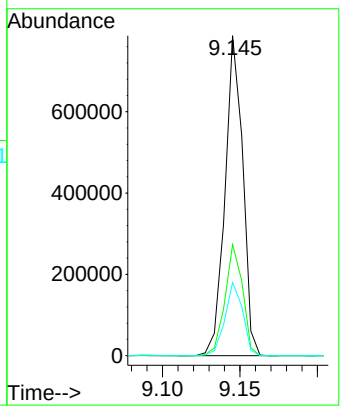




#45
2-Fluorobiphenyl
Concen: 25.487 ng
RT: 9.145 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF134538.D
Acq: 01 Aug 2023 08:54

Tgt Ion:172 Resp: 62624

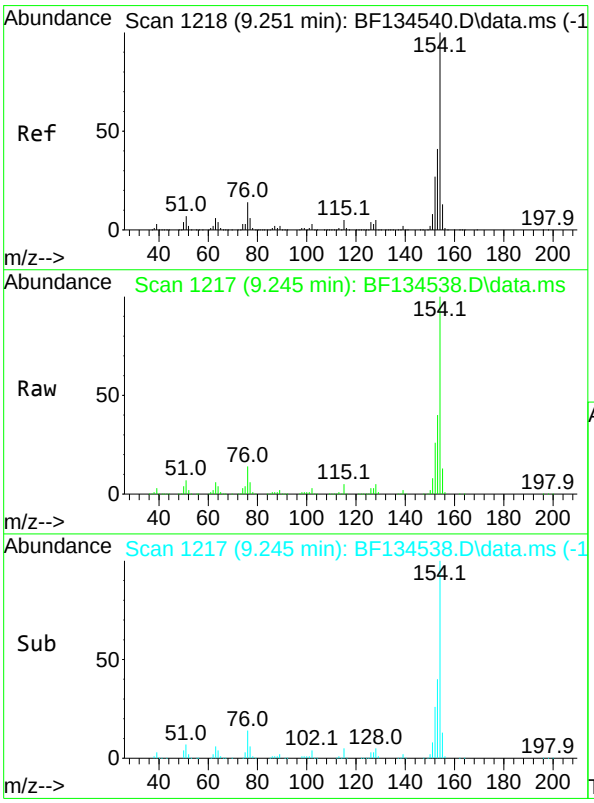
Ion	Ratio	Lower	Upper
172	100		
171	34.7	28.8	43.2
170	22.9	18.7	28.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

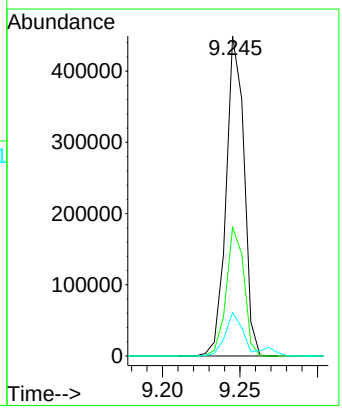
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

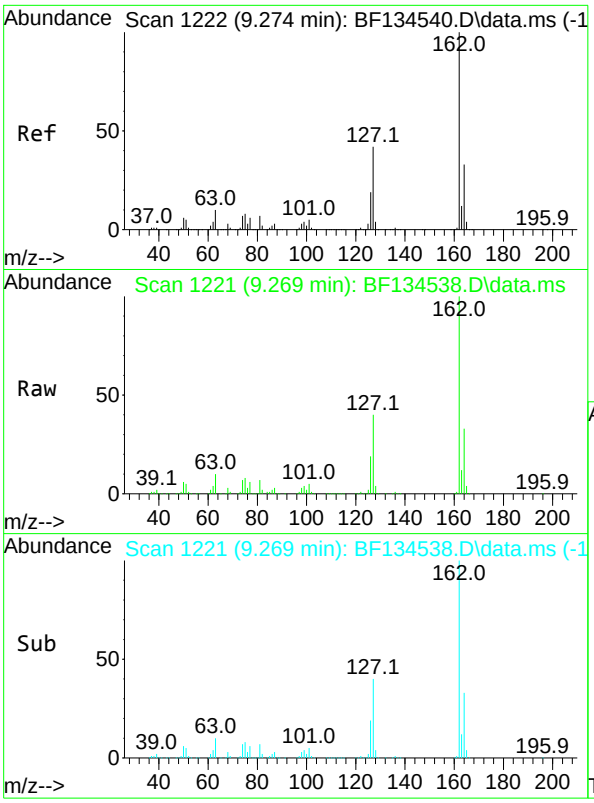


#46
1,1'-Biphenyl
Concen: 11.387 ng
RT: 9.245 min Scan# 1217
Delta R.T. -0.006 min
Lab File: BF134538.D
Acq: 01 Aug 2023 08:54

Tgt Ion:154 Resp: 361765

Ion	Ratio	Lower	Upper
154	100		
153	40.2	20.8	60.8
76	13.6	0.0	30.2

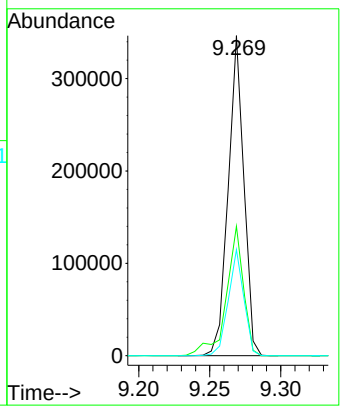




#47
2-Chloronaphthalene
Concen: 11.179 ng
RT: 9.269 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF134538.D
Acq: 01 Aug 2023 08:54

Tgt Ion:162 Resp: 26610

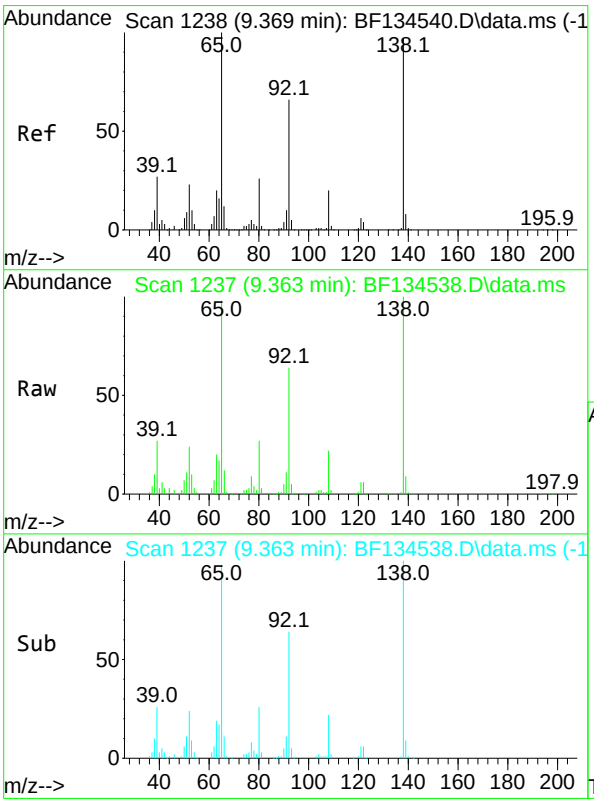
Ion	Ratio	Lower	Upper
162	100		
127	40.5	34.0	51.0
164	33.1	25.7	38.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

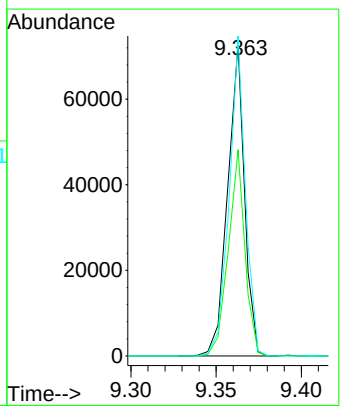
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

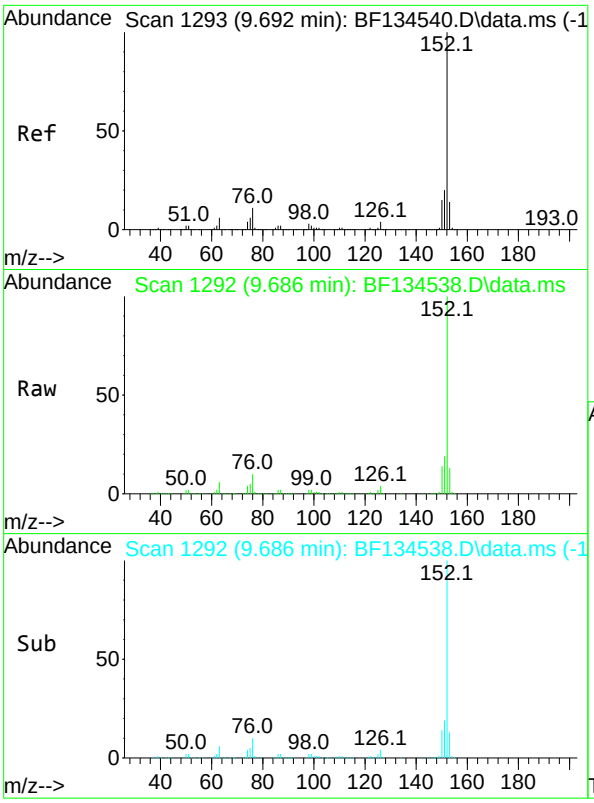


#48
2-Nitroaniline
Concen: 9.470 ng
RT: 9.363 min Scan# 1237
Delta R.T. -0.006 min
Lab File: BF134538.D
Acq: 01 Aug 2023 08:54

Tgt Ion: 65 Resp: 50087

Ion	Ratio	Lower	Upper
65	100		
92	66.0	50.7	76.1
138	102.4	78.2	117.4

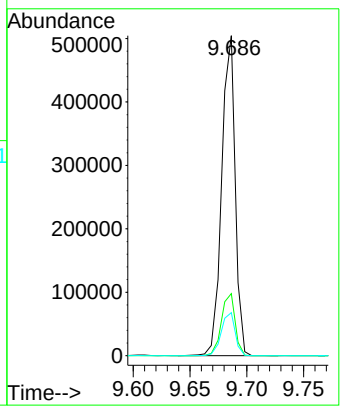




#49
Acenaphthylene
Concen: 11.186 ng
RT: 9.686 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF134538.D
Acq: 01 Aug 2023 08:54

Tgt Ion:152 Resp: 41856

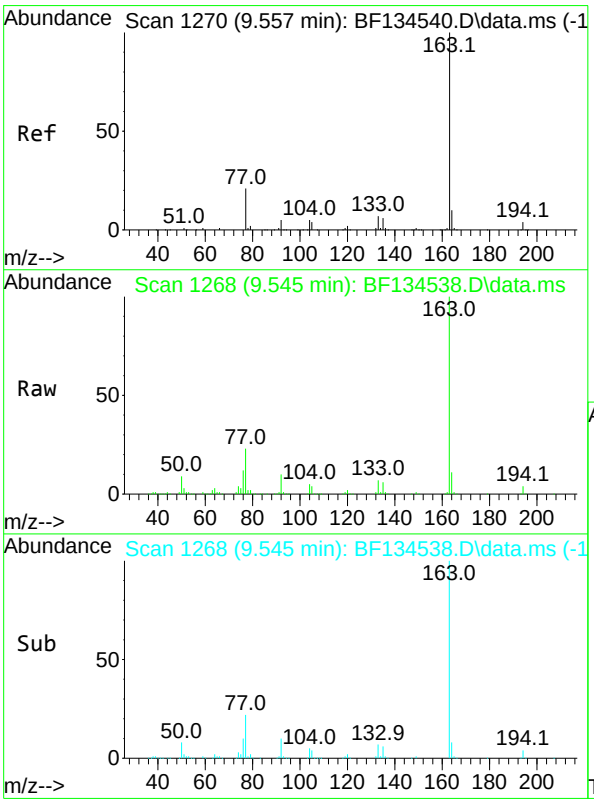
Ion	Ratio	Lower	Upper
152	100		
151	19.4	16.4	24.6
153	13.4	10.9	16.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

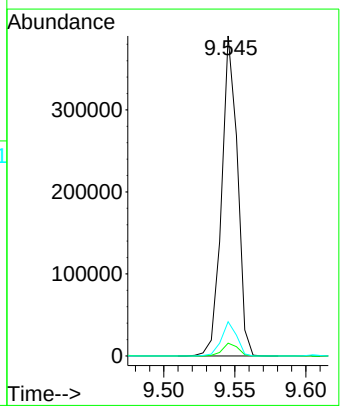
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

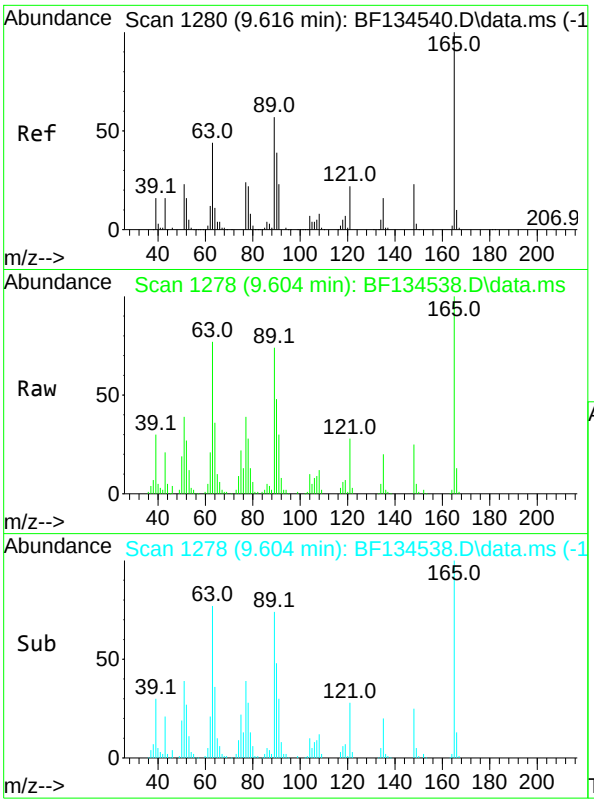


#50
Dimethylphthalate
Concen: 10.834 ng
RT: 9.545 min Scan# 1268
Delta R.T. -0.012 min
Lab File: BF134538.D
Acq: 01 Aug 2023 08:54

Tgt Ion:163 Resp: 301678

Ion	Ratio	Lower	Upper
163	100		
194	4.0	3.3	4.9
164	10.7	7.5	11.3

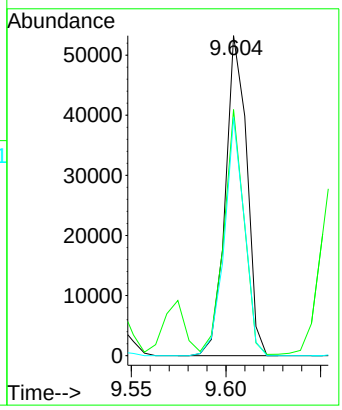




#51
2,6-Dinitrotoluene
Concen: 9.454 ng
RT: 9.604 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF134538.D
Acq: 01 Aug 2023 08:54

Tgt Ion:165 Resp: 4187

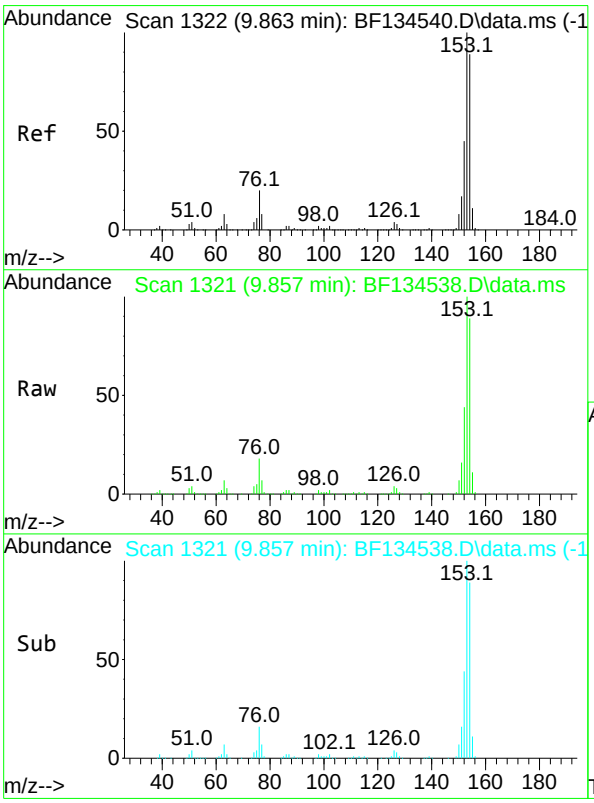
Ion	Ratio	Lower	Upper
165	100		
63	76.9	57.8	86.6
89	74.4	51.8	77.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

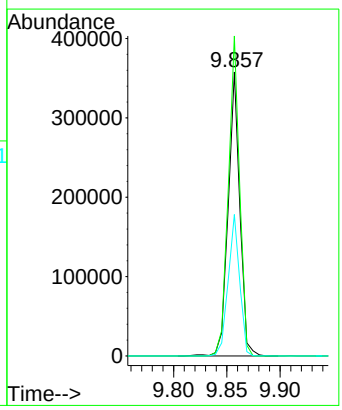
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

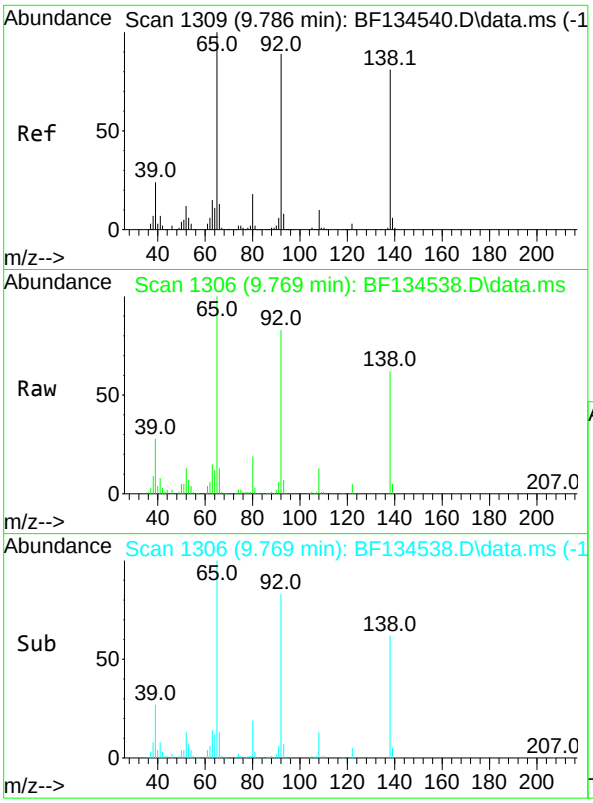


#52
Acenaphthene
Concen: 11.127 ng
RT: 9.857 min Scan# 1321
Delta R.T. -0.006 min
Lab File: BF134538.D
Acq: 01 Aug 2023 08:54

Tgt Ion:154 Resp: 269820

Ion	Ratio	Lower	Upper
154	100		
153	112.7	90.0	135.0
152	49.8	42.4	63.6

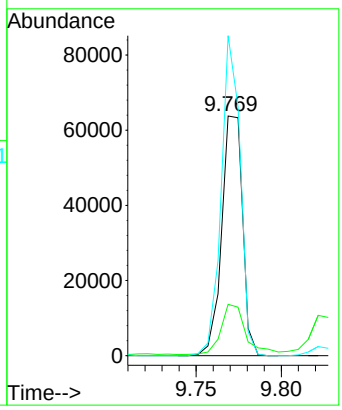




#53
3-Nitroaniline
Concen: 8.758 ng
RT: 9.769 min Scan# 1
Delta R.T. -0.017 min
Lab File: BF134538.D
Acq: 01 Aug 2023 08:54

Tgt Ion:138 Resp: 5435

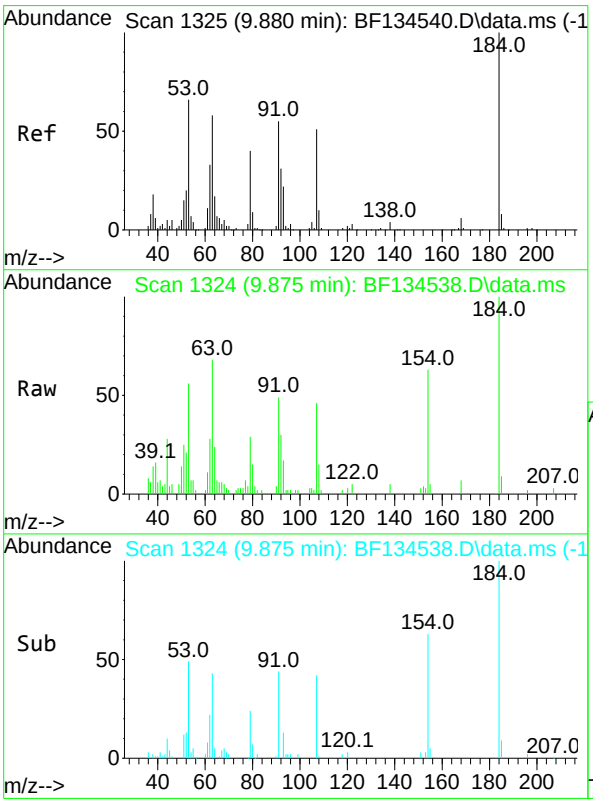
Ion	Ratio	Lower	Upper
138	100		
108	21.5	9.3	13.9
92	133.5	86.6	129.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

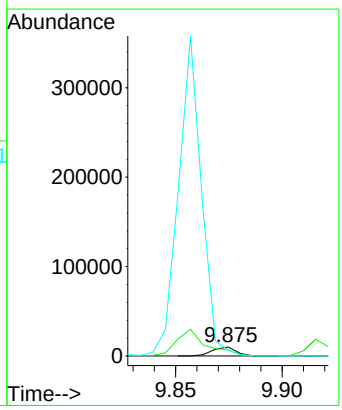
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

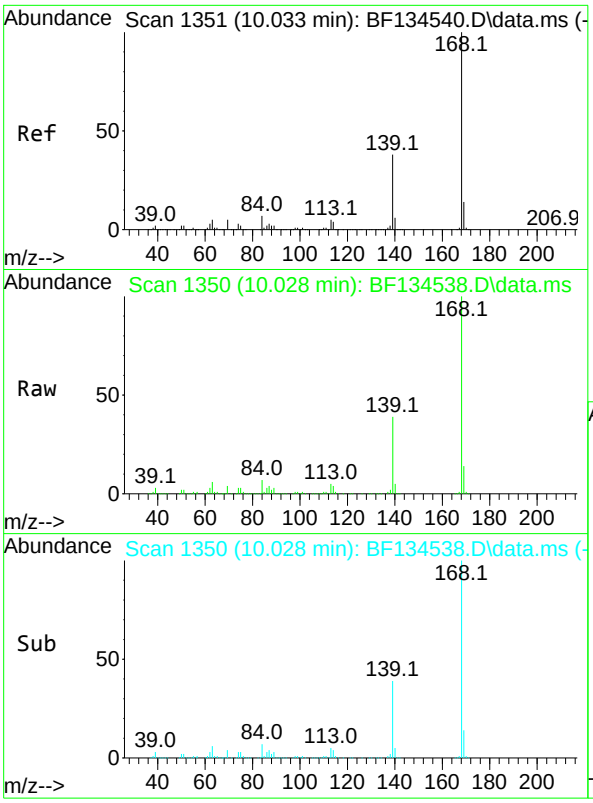


#54
2,4-Dinitrophenol
Concen: 11.233 ng
RT: 9.875 min Scan# 1324
Delta R.T. -0.005 min
Lab File: BF134538.D
Acq: 01 Aug 2023 08:54

Tgt Ion:184 Resp: 7734

Ion	Ratio	Lower	Upper
184	100		
63	67.6	57.1	85.7
154	63.2	59.1	88.7

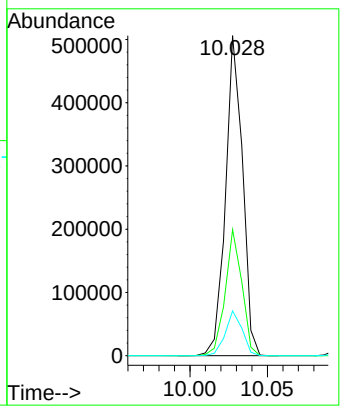




#55
Dibenzofuran
Concen: 11.173 ng
RT: 10.028 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF134538.D
Acq: 01 Aug 2023 08:54

Tgt Ion:168 Resp: 38567

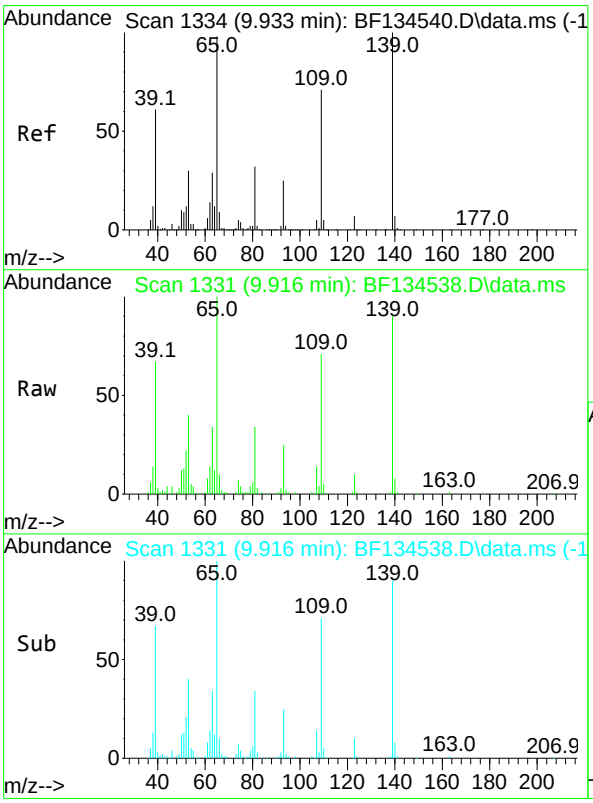
Ion	Ratio	Lower	Upper
168	100		
139	39.4	33.4	50.2
169	14.0	10.6	15.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

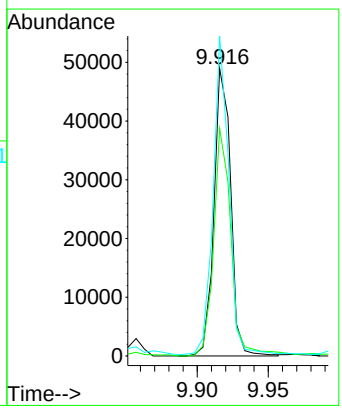
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

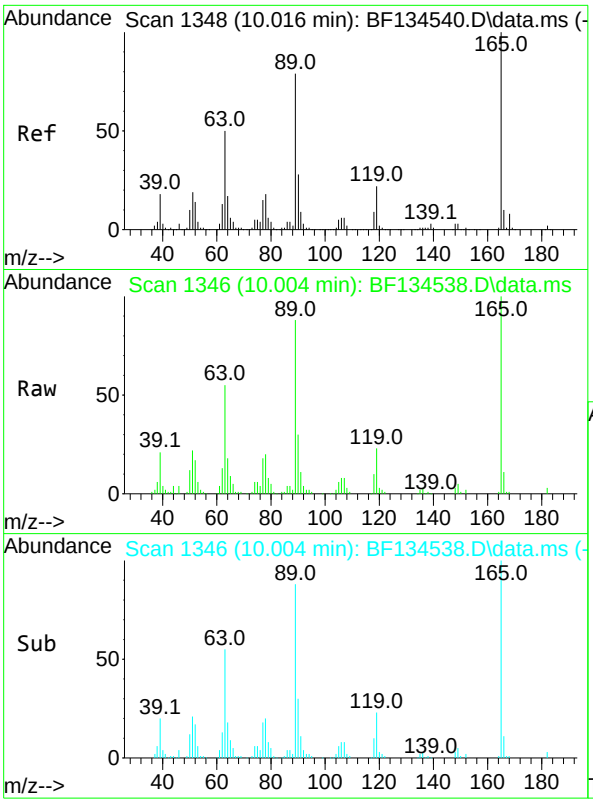


#56
4-Nitrophenol
Concen: 7.858 ng
RT: 9.916 min Scan# 1331
Delta R.T. -0.017 min
Lab File: BF134538.D
Acq: 01 Aug 2023 08:54

Tgt Ion:139 Resp: 39886

Ion	Ratio	Lower	Upper
139	100		
109	79.2	76.9	116.9
65	111.4	98.5	138.5

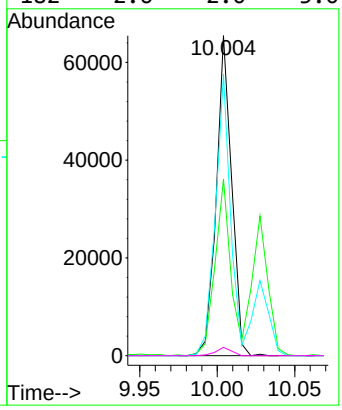




#57
2,4-Dinitrotoluene
Concen: 9.029 ng
RT: 10.004 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF134538.D
Acq: 01 Aug 2023 08:54

Tgt Ion:165 Resp: 4525

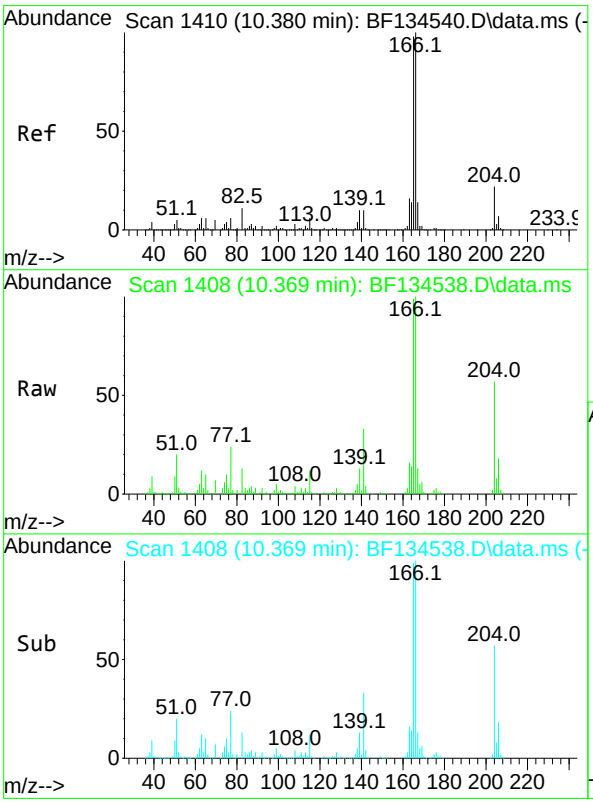
Ion	Ratio	Lower	Upper
165	100		
63	55.2	48.9	73.3
89	87.9	61.7	92.5
182	2.6	2.0	3.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

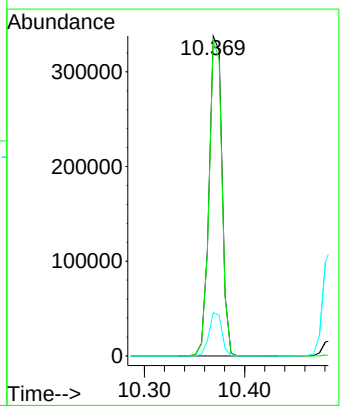
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

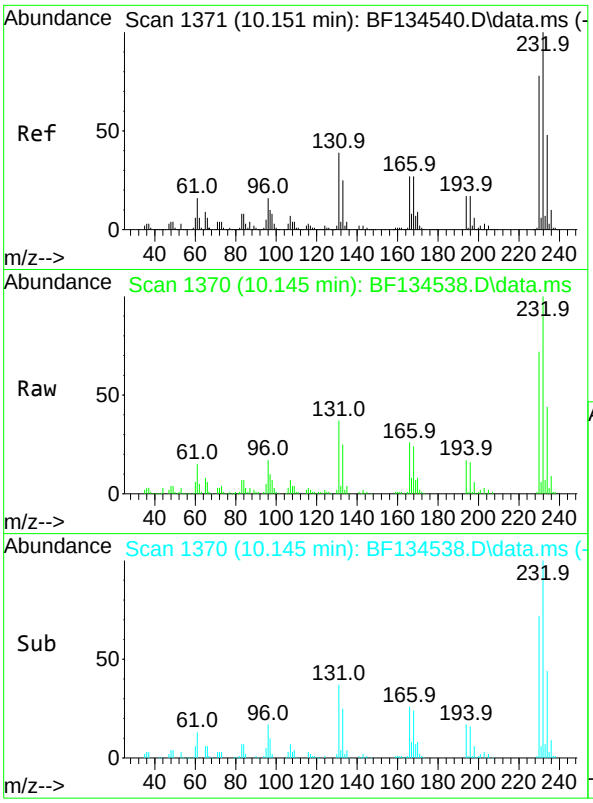


#58
Fluorene
Concen: 11.998 ng
RT: 10.369 min Scan# 1408
Delta R.T. -0.011 min
Lab File: BF134538.D
Acq: 01 Aug 2023 08:54

Tgt Ion:166 Resp: 301668

Ion	Ratio	Lower	Upper
166	100		
165	98.9	74.5	111.7
167	13.5	10.6	16.0

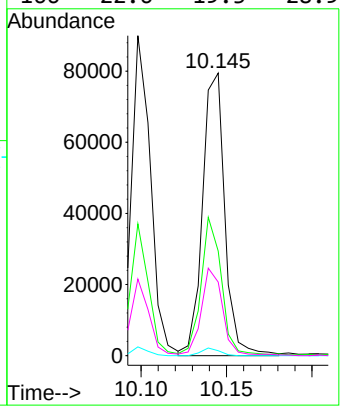




#59
2,3,4,6-Tetrachlorophenol
Concen: 10.275 ng m
RT: 10.145 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF134538.D
Acq: 01 Aug 2023 08:54

Tgt Ion:232 Resp: 7235

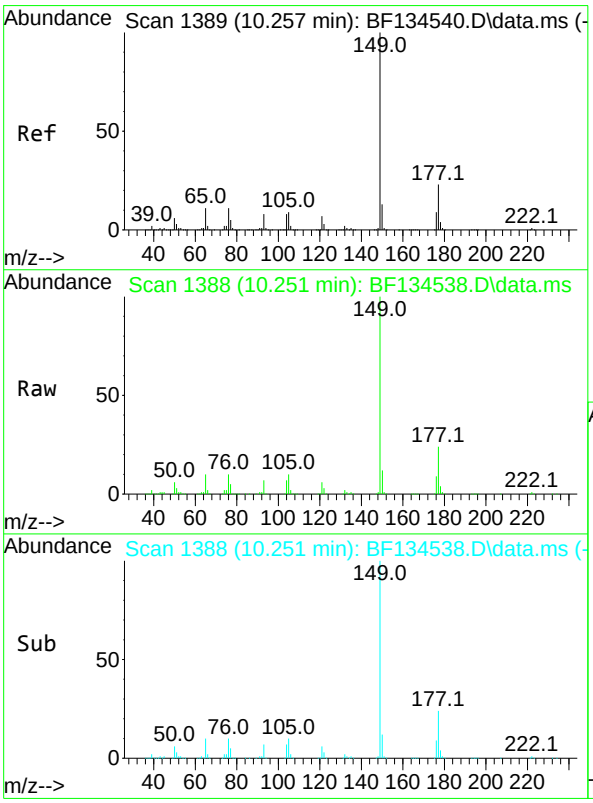
Ion	Ratio	Lower	Upper
232	100		
131	38.4	33.4	50.0
130	2.2	1.8	2.6
166	22.6	19.3	28.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

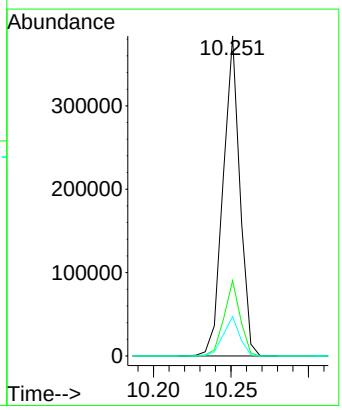
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

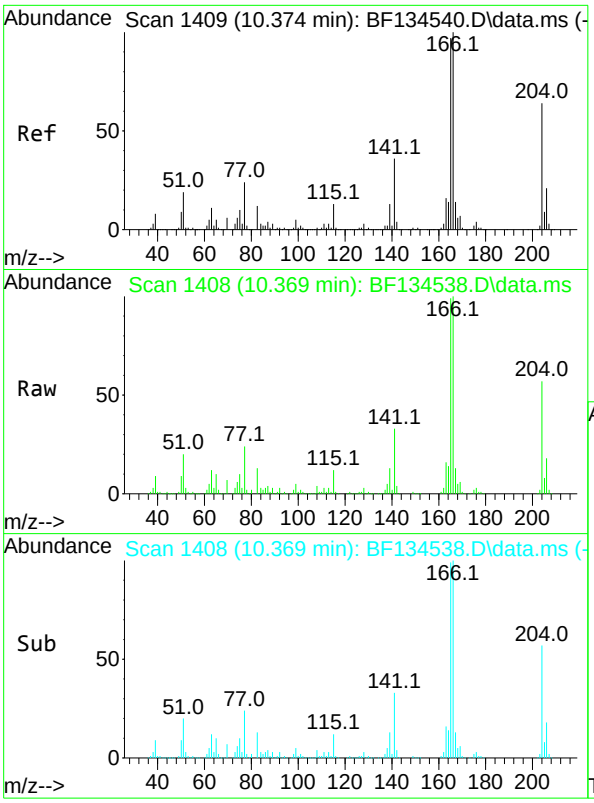


#60
Diethylphthalate
Concen: 10.918 ng
RT: 10.251 min Scan# 1388
Delta R.T. -0.006 min
Lab File: BF134538.D
Acq: 01 Aug 2023 08:54

Tgt Ion:149 Resp: 288159

Ion	Ratio	Lower	Upper
149	100		
177	23.5	17.0	25.4
150	12.3	9.9	14.9

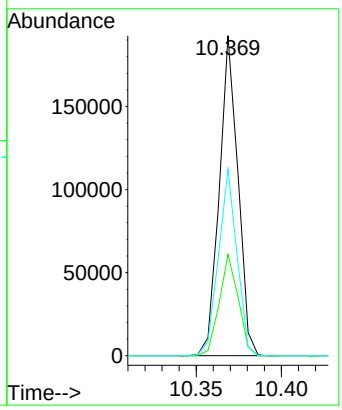




#61
4-Chlorophenyl-phenylether
Concen: 11.839 ng
RT: 10.369 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF134538.D
Acq: 01 Aug 2023 08:54

Tgt Ion:204 Resp: 14631

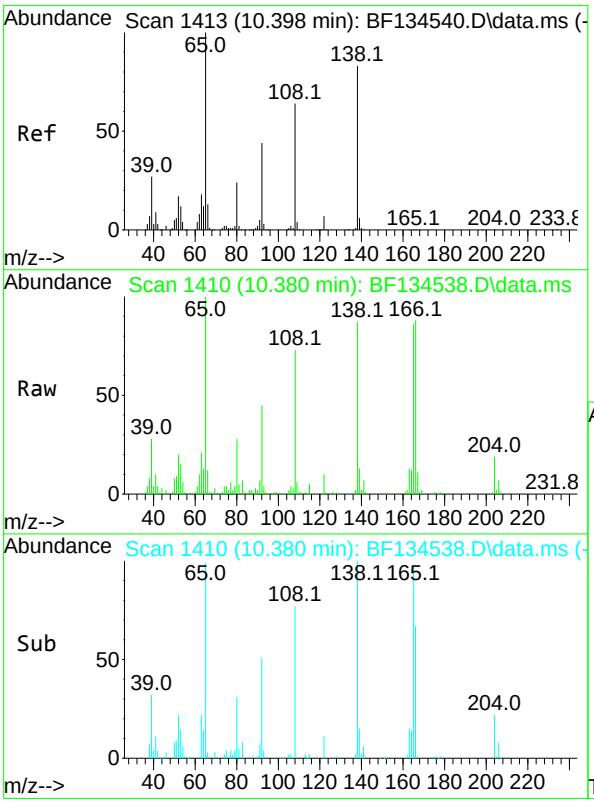
Ion	Ratio	Lower	Upper
204	100		
206	31.6	26.0	39.0
141	58.3	52.2	78.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

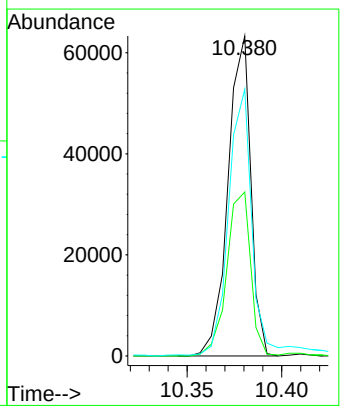
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

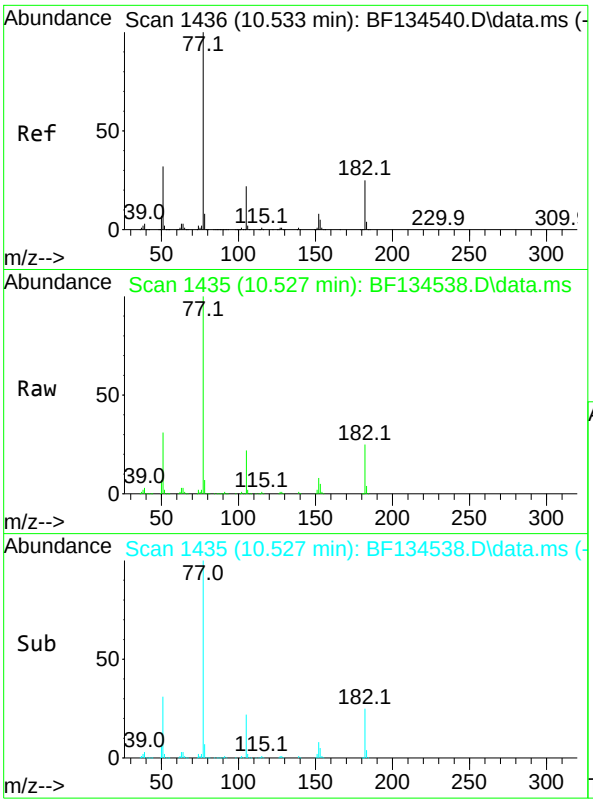


#62
4-Nitroaniline
Concen: 8.692 ng
RT: 10.380 min Scan# 1410
Delta R.T. -0.018 min
Lab File: BF134538.D
Acq: 01 Aug 2023 08:54

Tgt Ion:138 Resp: 52878

Ion	Ratio	Lower	Upper
138	100		
92	51.3	27.0	67.0
108	83.4	70.4	110.4

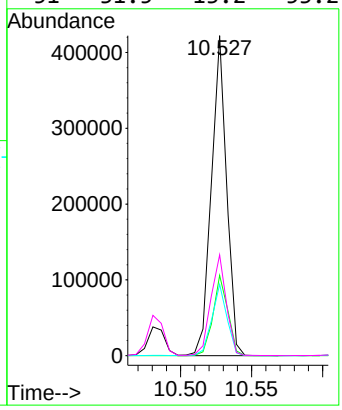




#63
Azobenzene
Concen: 11.082 ng
RT: 10.527 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF134538.D
Acq: 01 Aug 2023 08:54

Tgt Ion: 77 Resp: 31426

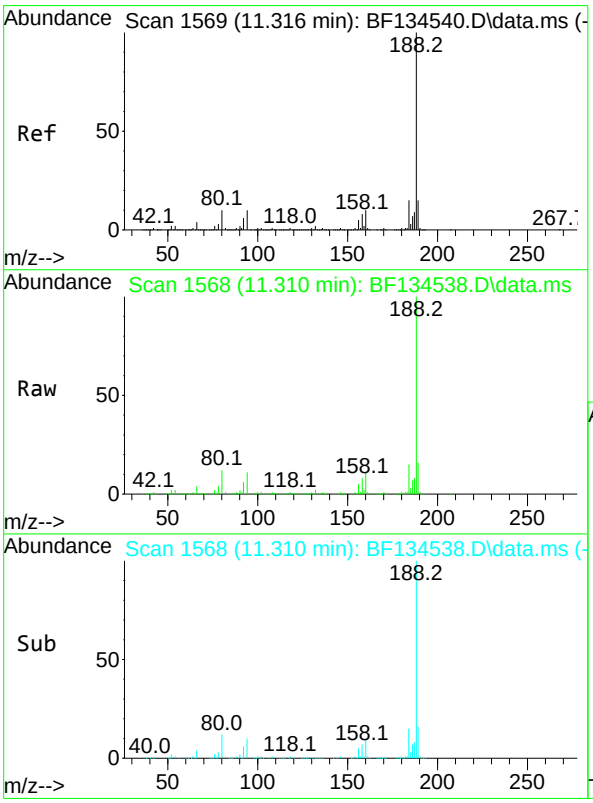
Ion	Ratio	Lower	Upper
77	100		
182	25.1	7.5	47.5
105	22.3	1.9	41.9
51	31.5	13.2	53.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

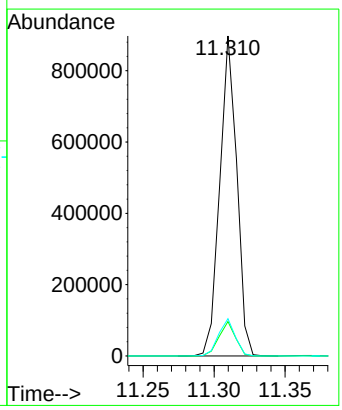
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

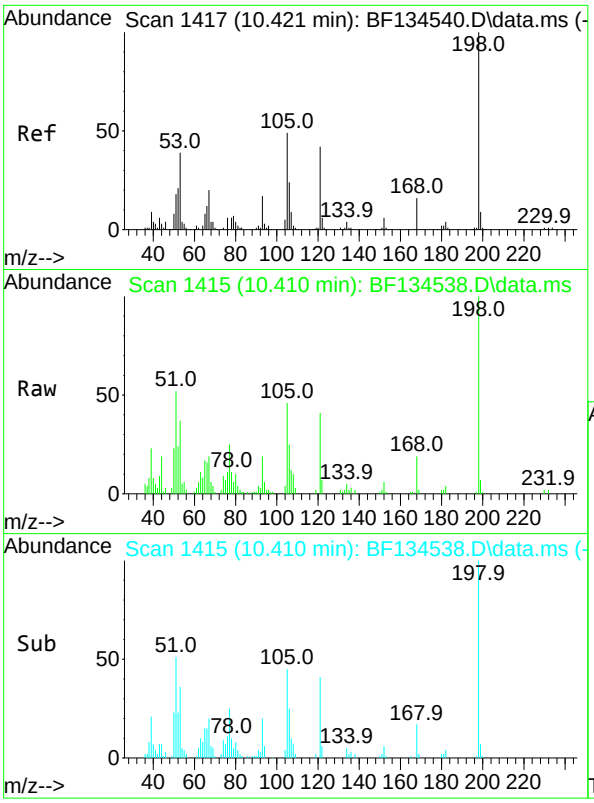


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.310 min Scan# 1568
Delta R.T. -0.006 min
Lab File: BF134538.D
Acq: 01 Aug 2023 08:54

Tgt Ion:188 Resp: 747603

Ion	Ratio	Lower	Upper
188	100		
94	10.7	5.1	7.7#
80	11.7	6.6	9.8#

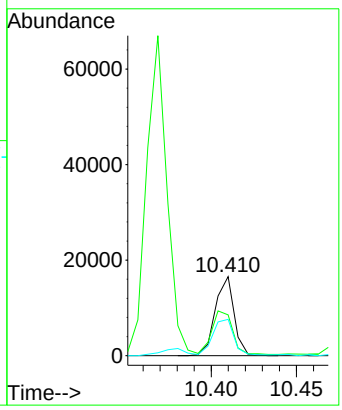




#65
4,6-Dinitro-2-methylphenol
Concen: 12.143 ng
RT: 10.410 min Scan# 14
Delta R.T. -0.011 min
Lab File: BF134538.D
Acq: 01 Aug 2023 08:54

Tgt Ion:198 Resp: 1271

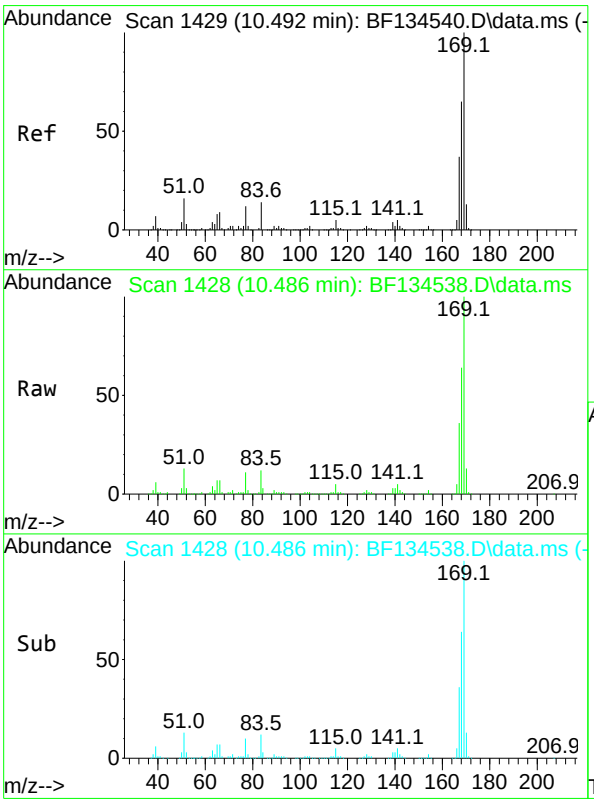
Ion	Ratio	Lower	Upper
198	100		
51	51.6	38.6	78.6
105	45.9	27.9	67.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

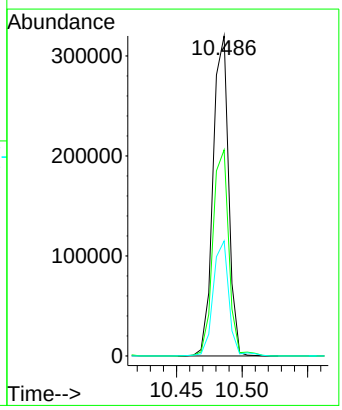
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

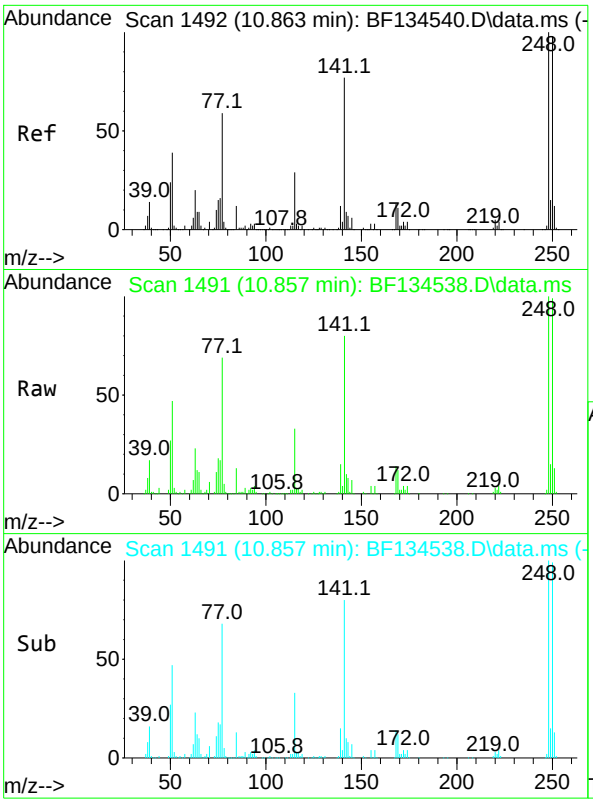


#66
n-Nitrosodiphenylamine
Concen: 11.104 ng
RT: 10.486 min Scan# 1428
Delta R.T. -0.006 min
Lab File: BF134538.D
Acq: 01 Aug 2023 08:54

Tgt Ion:169 Resp: 264231

Ion	Ratio	Lower	Upper
169	100		
168	64.4	52.6	78.8
167	35.9	29.8	44.8

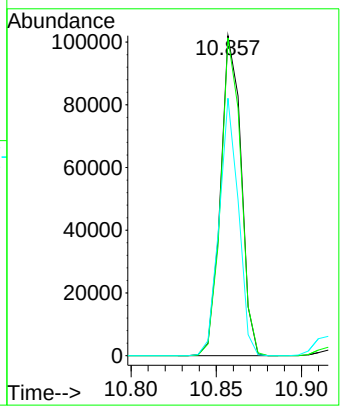




#67
4-Bromophenyl-phenylether
Concen: 10.450 ng
RT: 10.857 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF134538.D
Acq: 01 Aug 2023 08:54

Tgt Ion:248 Resp: 8552

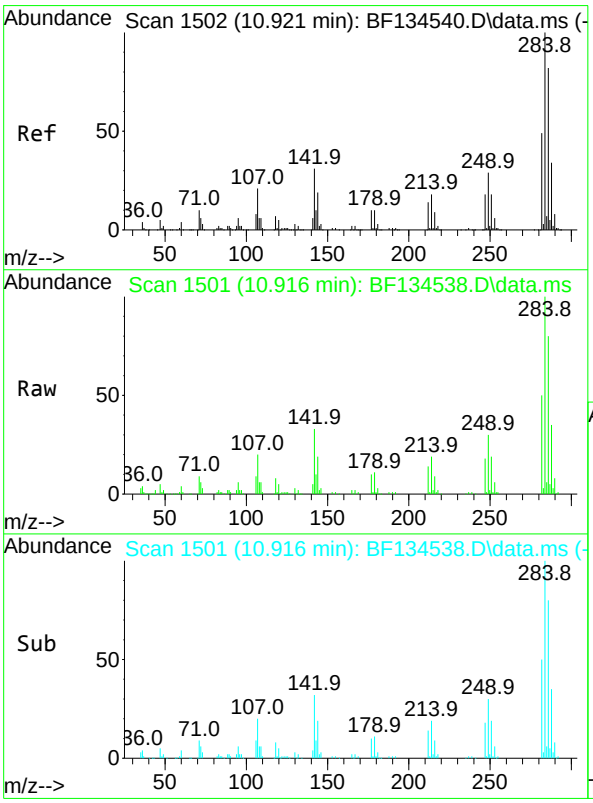
Ion	Ratio	Lower	Upper
248	100		
250	99.3	79.6	119.4
141	80.5	59.6	89.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

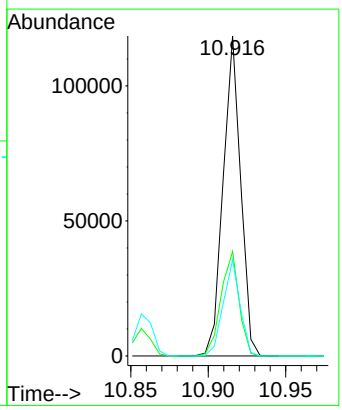
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

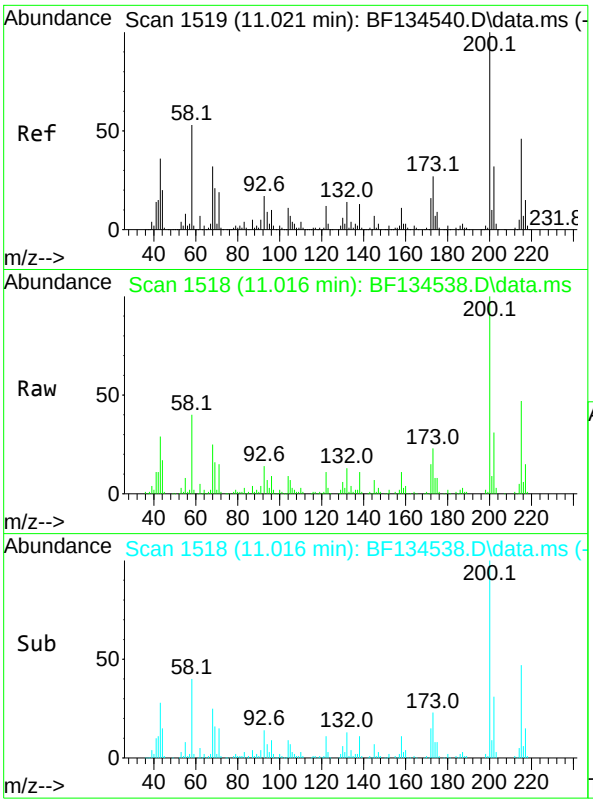


#68
Hexachlorobenzene
Concen: 10.766 ng
RT: 10.916 min Scan# 1501
Delta R.T. -0.006 min
Lab File: BF134538.D
Acq: 01 Aug 2023 08:54

Tgt Ion:284 Resp: 93040

Ion	Ratio	Lower	Upper
284	100		
142	32.6	26.5	39.7
249	30.0	23.8	35.8

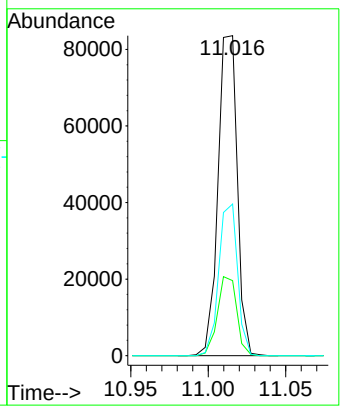




#69
Atrazine
Concen: 11.303 ng
RT: 11.016 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF134538.D
Acq: 01 Aug 2023 08:54

Tgt Ion:200 Resp: 7249

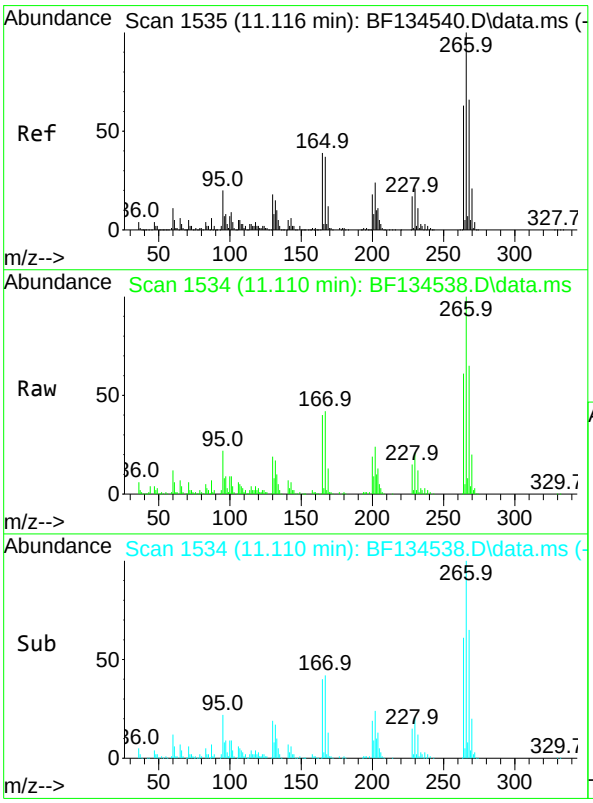
Ion	Ratio	Lower	Upper
200	100		
173	23.4	6.1	46.1
215	47.4	29.7	69.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

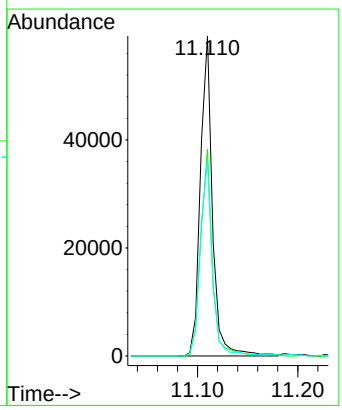
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

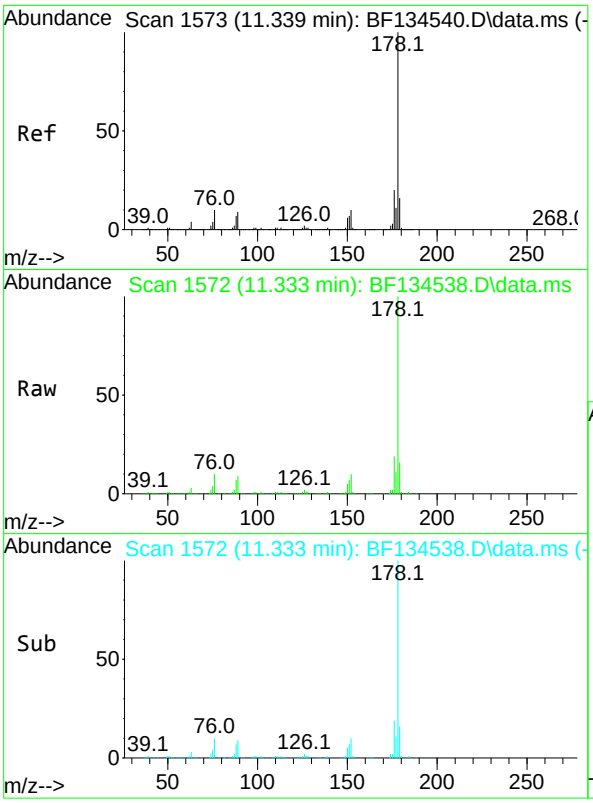


#70
Pentachlorophenol
Concen: 9.269 ng
RT: 11.110 min Scan# 1534
Delta R.T. -0.006 min
Lab File: BF134538.D
Acq: 01 Aug 2023 08:54

Tgt Ion:266 Resp: 49595

Ion	Ratio	Lower	Upper
266	100		
268	64.6	52.9	79.3
264	60.9	47.8	71.6

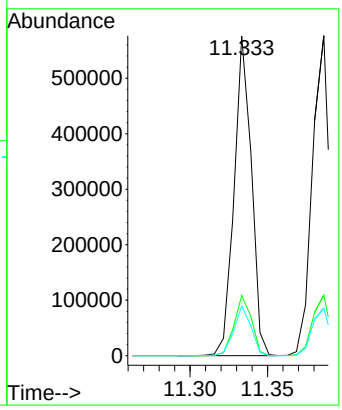




#71
Phenanthrene
Concen: 11.244 ng
RT: 11.333 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF134538.D
Acq: 01 Aug 2023 08:54

Tgt Ion:178 Resp: 44650

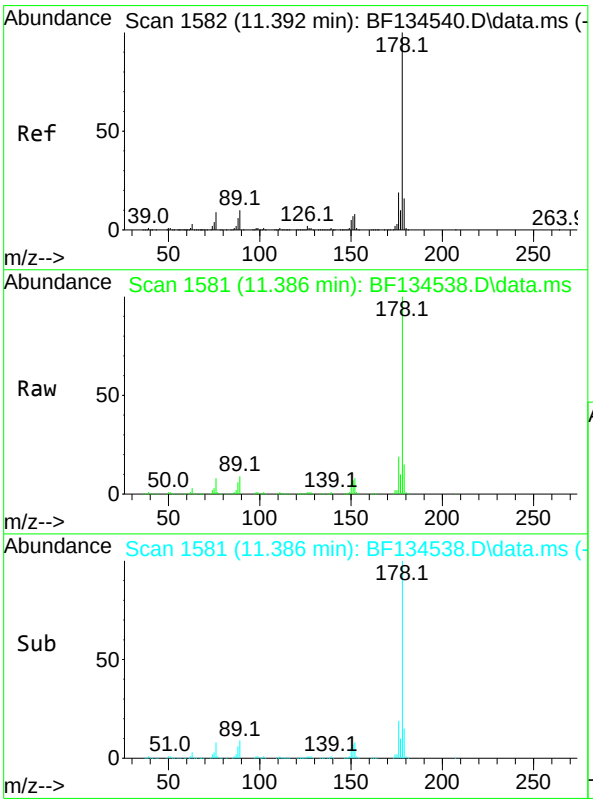
Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.8	23.6
179	15.5	12.7	19.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

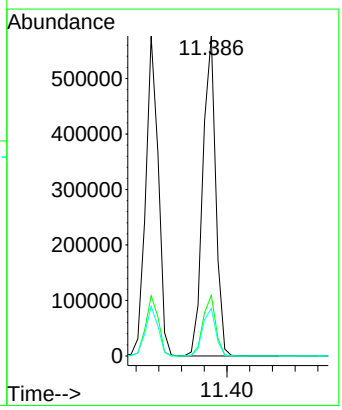
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

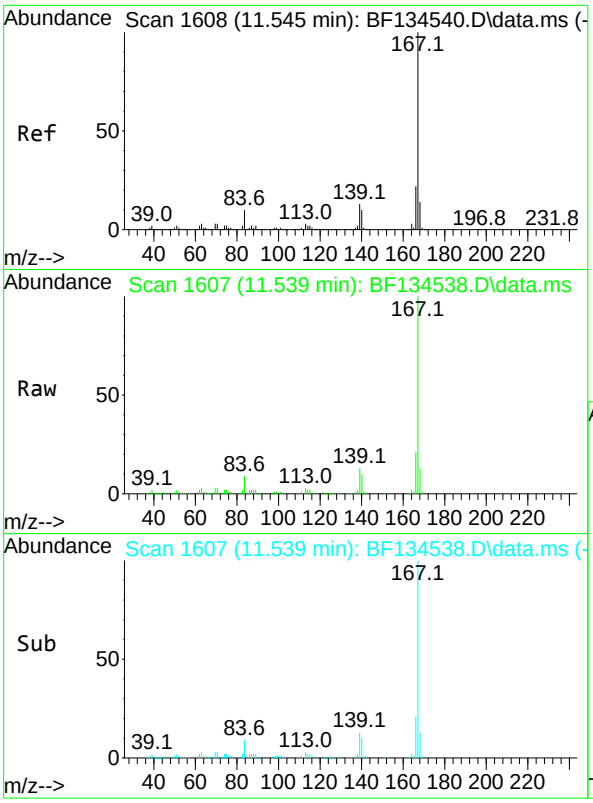


#72
Anthracene
Concen: 11.213 ng
RT: 11.386 min Scan# 1581
Delta R.T. -0.006 min
Lab File: BF134538.D
Acq: 01 Aug 2023 08:54

Tgt Ion:178 Resp: 454825

Ion	Ratio	Lower	Upper
178	100		
176	18.9	14.6	21.8
179	14.9	12.3	18.5

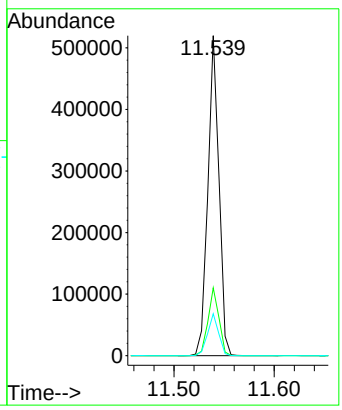




#73
Carbazole
Concen: 11.047 ng
RT: 11.539 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF134538.D
Acq: 01 Aug 2023 08:54

Tgt Ion:167 Resp: 40009

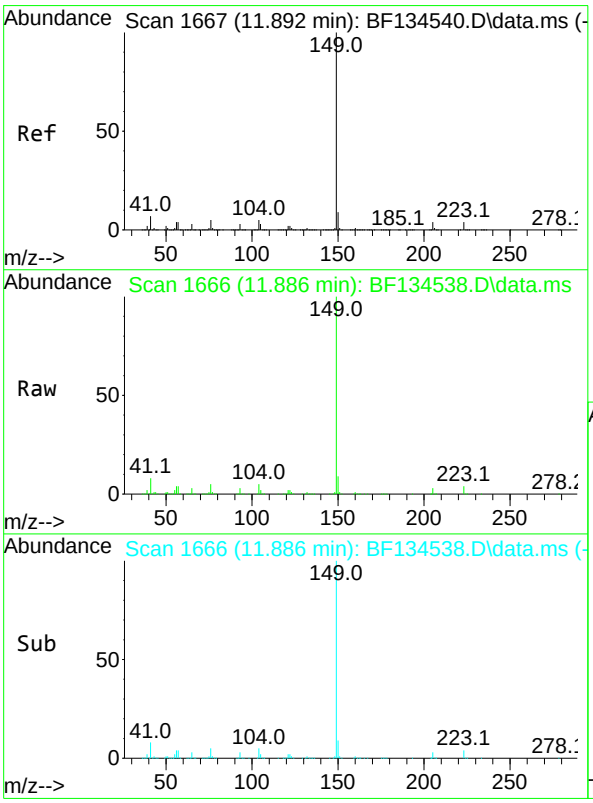
Ion	Ratio	Lower	Upper
167	100		
166	21.2	17.5	26.3
139	13.1	11.0	16.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

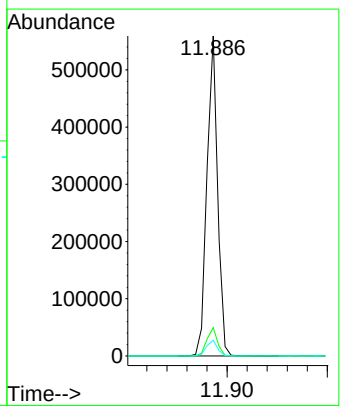
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

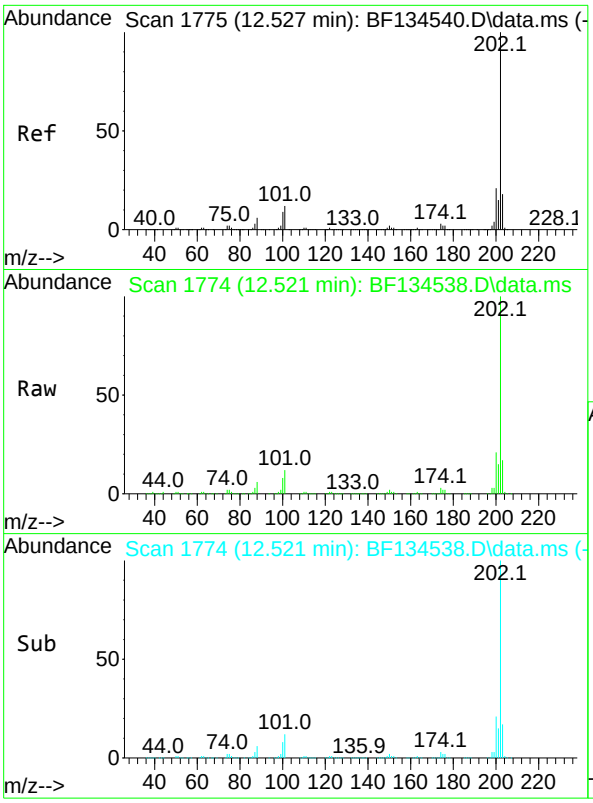


#74
Di-n-butylphthalate
Concen: 10.718 ng
RT: 11.886 min Scan# 1666
Delta R.T. -0.006 min
Lab File: BF134538.D
Acq: 01 Aug 2023 08:54

Tgt Ion:149 Resp: 412378

Ion	Ratio	Lower	Upper
149	100		
150	8.9	7.2	10.8
104	4.9	3.8	5.8

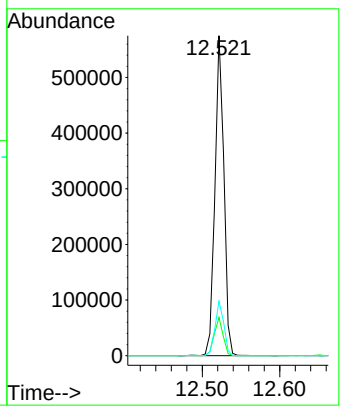




#75
Fluoranthene
Concen: 11.009 ng
RT: 12.521 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF134538.D
Acq: 01 Aug 2023 08:54

Tgt Ion:202 Resp: 46176

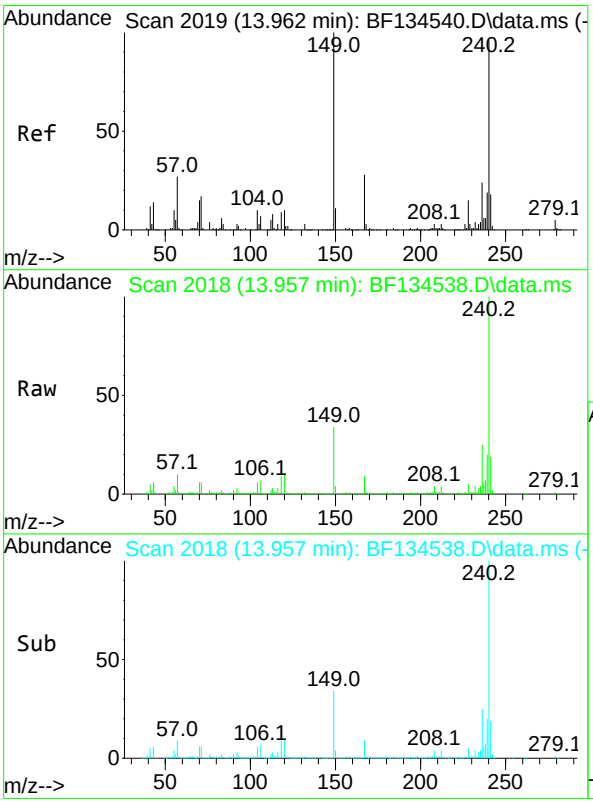
Ion	Ratio	Lower	Upper
202	100		
101	12.0	0.0	28.5
203	17.0	0.0	37.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

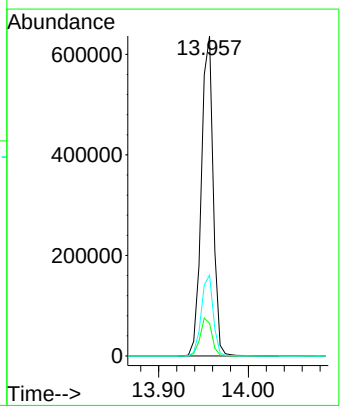
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

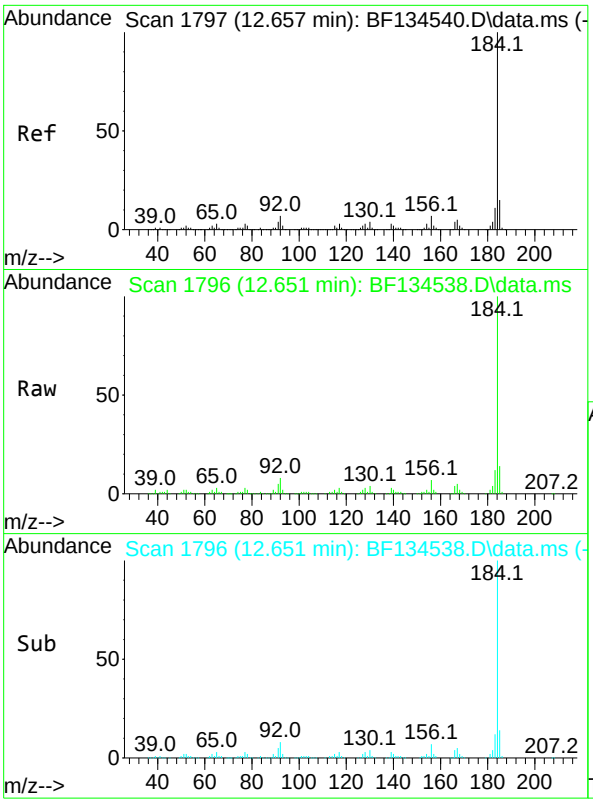


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.957 min Scan# 2018
Delta R.T. -0.006 min
Lab File: BF134538.D
Acq: 01 Aug 2023 08:54

Tgt Ion:240 Resp: 582401

Ion	Ratio	Lower	Upper
240	100		
120	10.2	6.6	10.0#
236	25.3	20.2	30.2

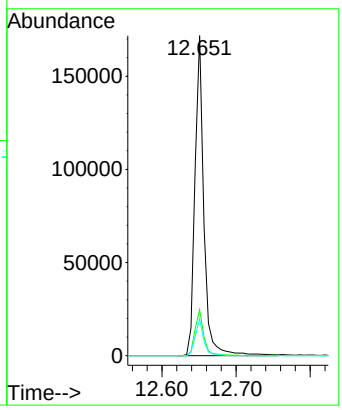




#77
Benzidine
Concen: 11.334 ng
RT: 12.651 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF134538.D
Acq: 01 Aug 2023 08:54

Tgt Ion:184 Resp: 14329

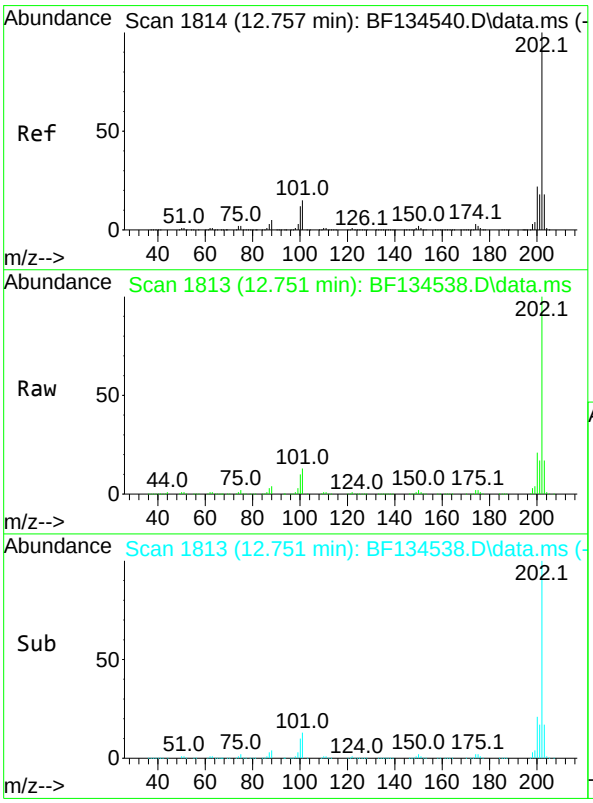
Ion	Ratio	Lower	Upper
184	100		
185	14.3	11.2	16.8
183	11.5	8.6	13.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

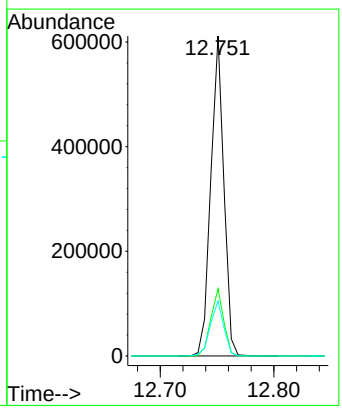
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

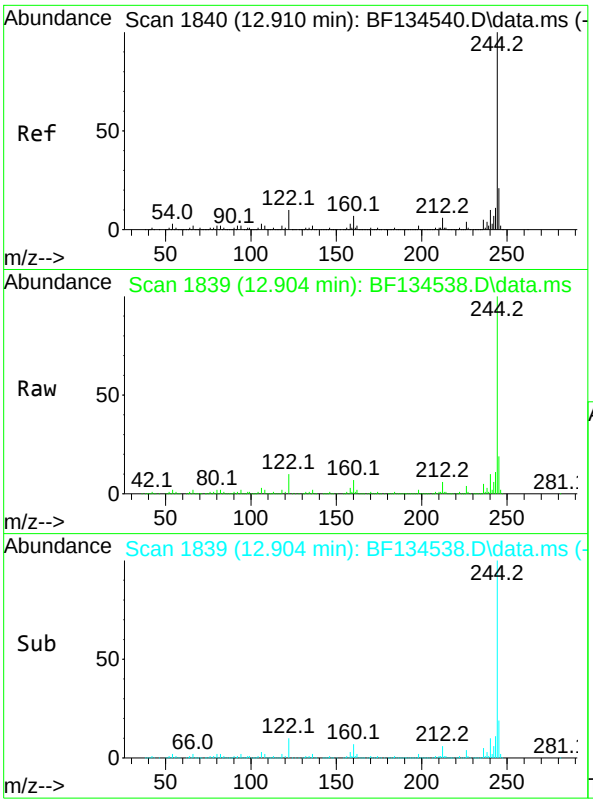


#78
Pyrene
Concen: 9.656 ng
RT: 12.751 min Scan# 1813
Delta R.T. -0.006 min
Lab File: BF134538.D
Acq: 01 Aug 2023 08:54

Tgt Ion:202 Resp: 486634

Ion	Ratio	Lower	Upper
202	100		
200	21.0	15.8	23.8
203	17.1	13.5	20.3

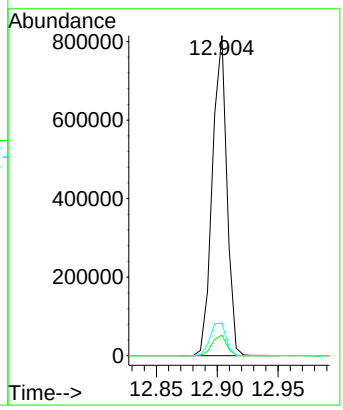




#79
Terphenyl-d14
Concen: 20.391 ng
RT: 12.904 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF134538.D
Acq: 01 Aug 2023 08:54

Tgt Ion:244 Resp: 67365

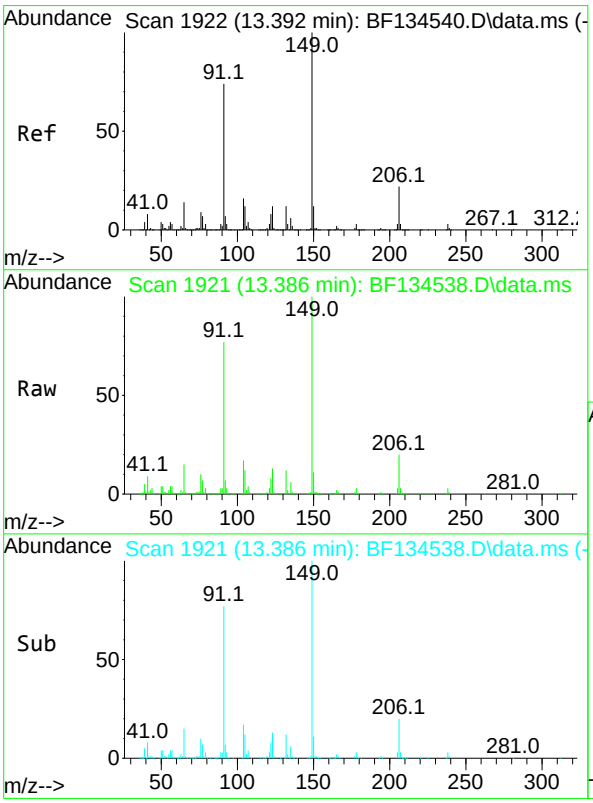
Ion	Ratio	Lower	Upper
244	100		
212	6.4	5.6	8.4
122	10.1	8.0	12.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

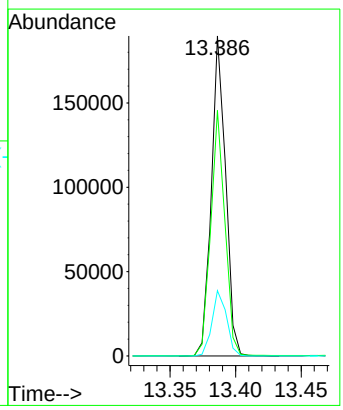
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

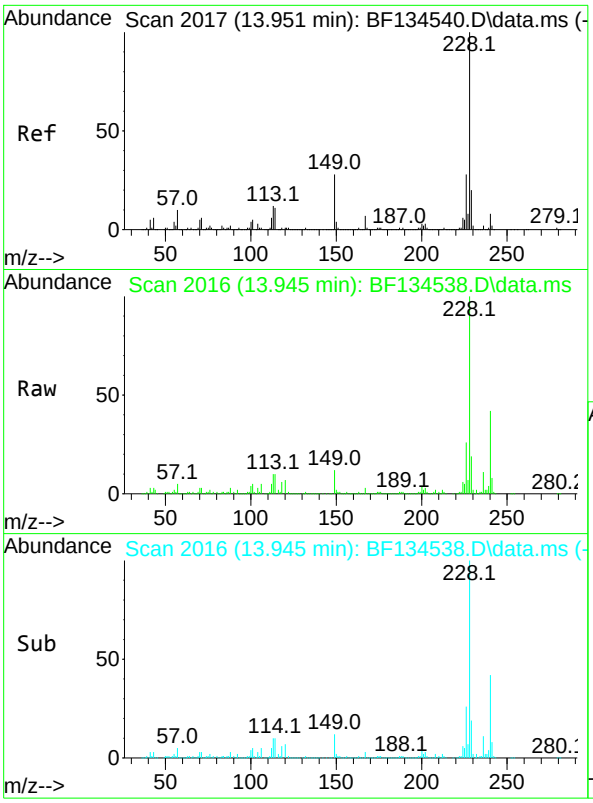


#80
Butylbenzylphthalate
Concen: 8.443 ng
RT: 13.386 min Scan# 1921
Delta R.T. -0.006 min
Lab File: BF134538.D
Acq: 01 Aug 2023 08:54

Tgt Ion:149 Resp: 143884

Ion	Ratio	Lower	Upper
149	100		
91	76.7	55.8	83.6
206	20.4	14.6	21.8

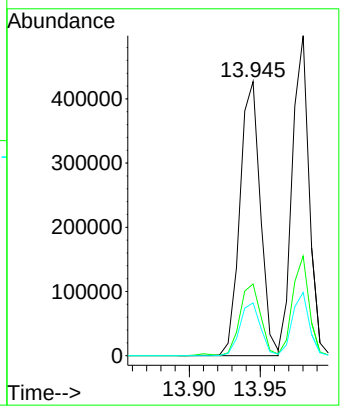




#81
Benzo(a)anthracene
Concen: 10.290 ng
RT: 13.945 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF134538.D
Acq: 01 Aug 2023 08:54

Tgt Ion:228 Resp: 42852

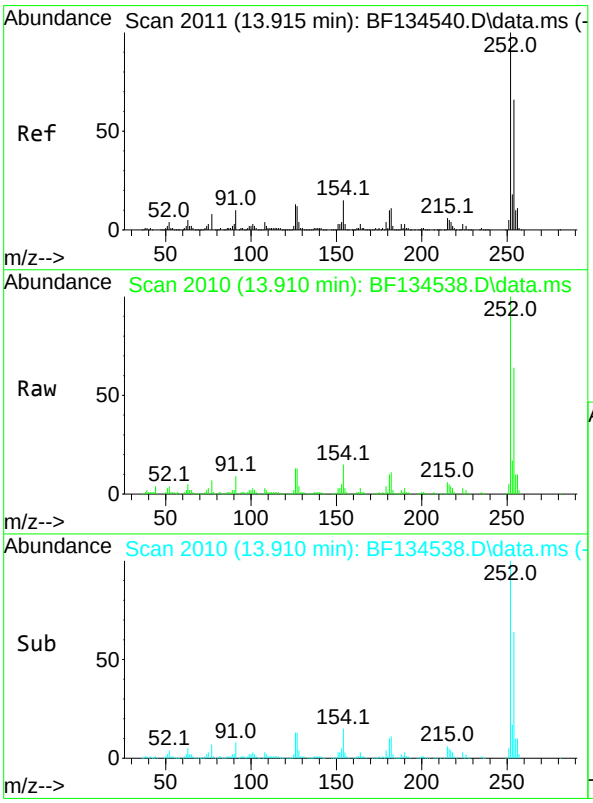
Ion	Ratio	Lower	Upper
228	100		
226	26.1	22.3	33.5
229	19.3	15.8	23.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

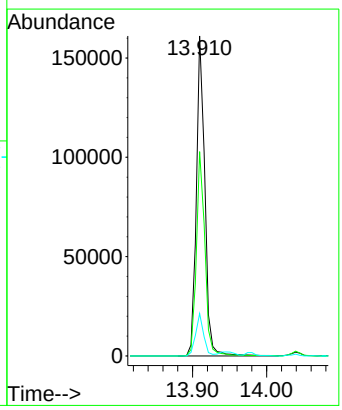
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

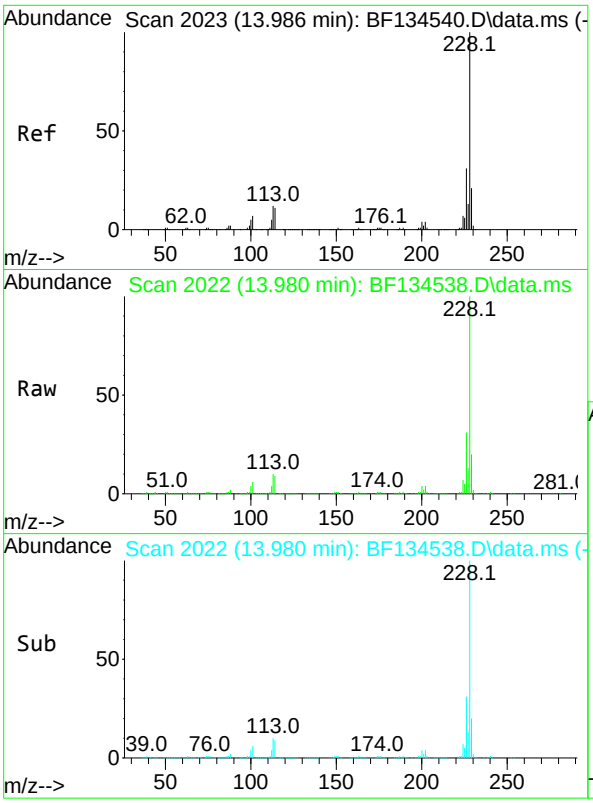


#82
3,3'-Dichlorobenzidine
Concen: 10.567 ng
RT: 13.910 min Scan# 2010
Delta R.T. -0.006 min
Lab File: BF134538.D
Acq: 01 Aug 2023 08:54

Tgt Ion:252 Resp: 127556

Ion	Ratio	Lower	Upper
252	100		
254	63.9	52.7	79.1
126	13.3	7.2	10.8#

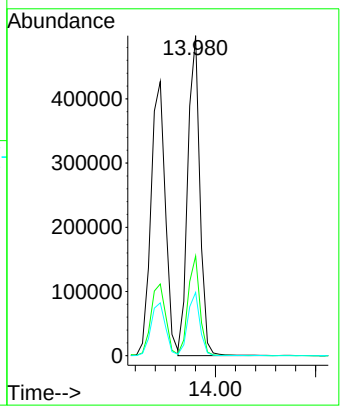




#83
Chrysene
Concen: 10.177 ng
RT: 13.980 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF134538.D
Acq: 01 Aug 2023 08:54

Tgt Ion:228 Resp: 41291

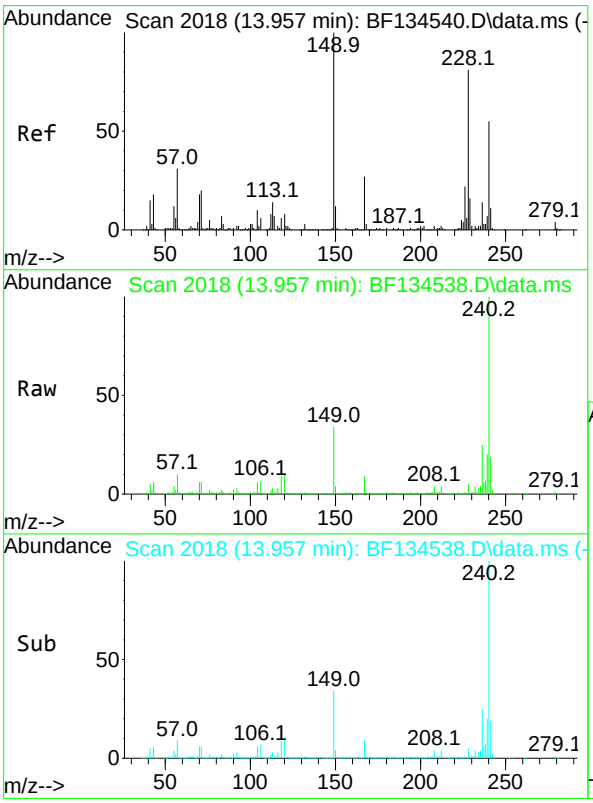
Ion	Ratio	Lower	Upper
228	100		
226	31.2	24.5	36.7
229	19.7	15.8	23.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

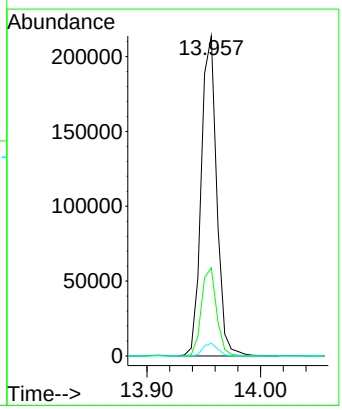
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

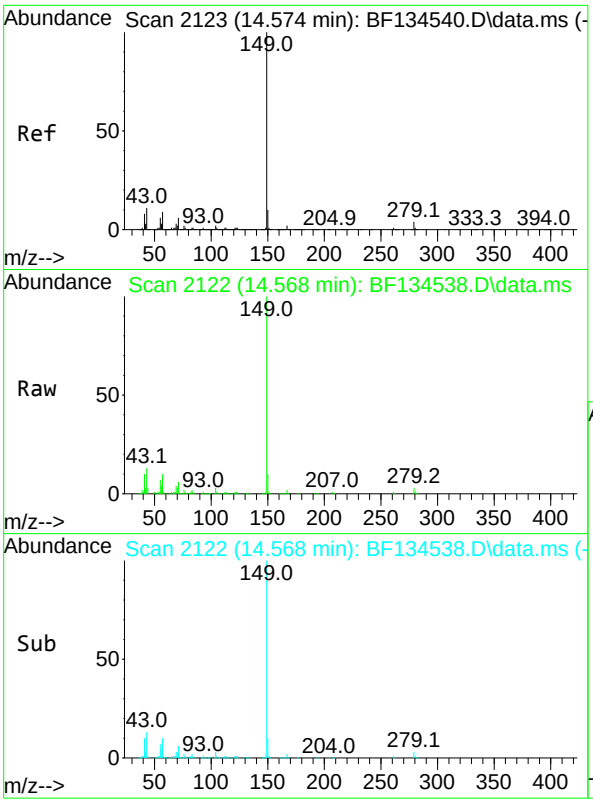


#84
Bis(2-ethylhexyl)phthalate
Concen: 10.062 ng
RT: 13.957 min Scan# 2018
Delta R.T. 0.000 min
Lab File: BF134538.D
Acq: 01 Aug 2023 08:54

Tgt Ion:149 Resp: 201788

Ion	Ratio	Lower	Upper
149	100		
167	27.6	21.6	32.4
279	4.0	3.5	5.3





#85
Di-n-octyl phthalate
Concen: 9.133 ng
RT: 14.568 min Scan# 21
Delta R.T. -0.006 min
Lab File: BF134538.D
Acq: 01 Aug 2023 08:54

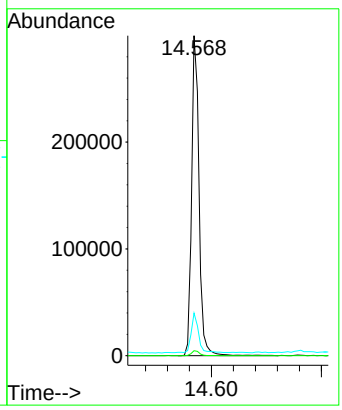
Tgt Ion:149 Resp: 27853

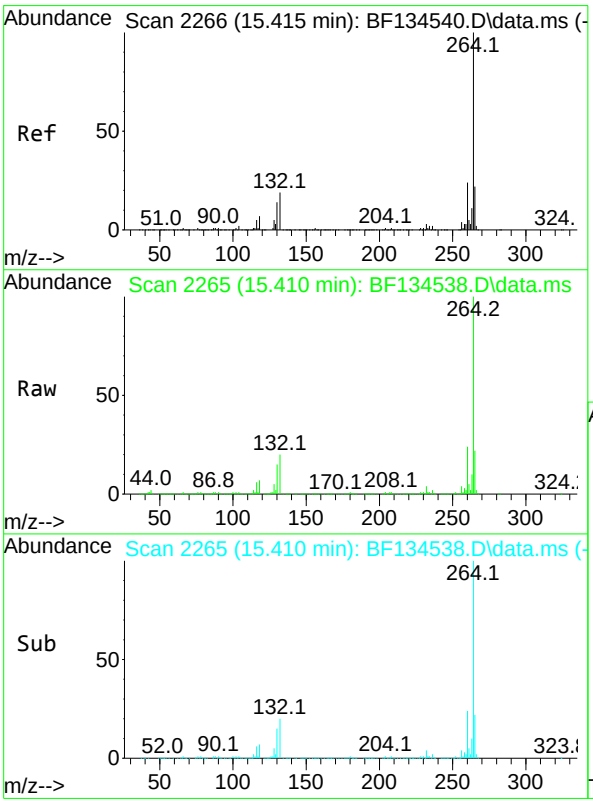
Ion	Ratio	Lower	Upper
149	100		
167	1.7	1.2	1.8
43	12.0	8.1	12.1

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

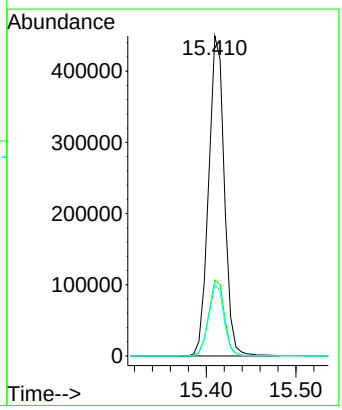


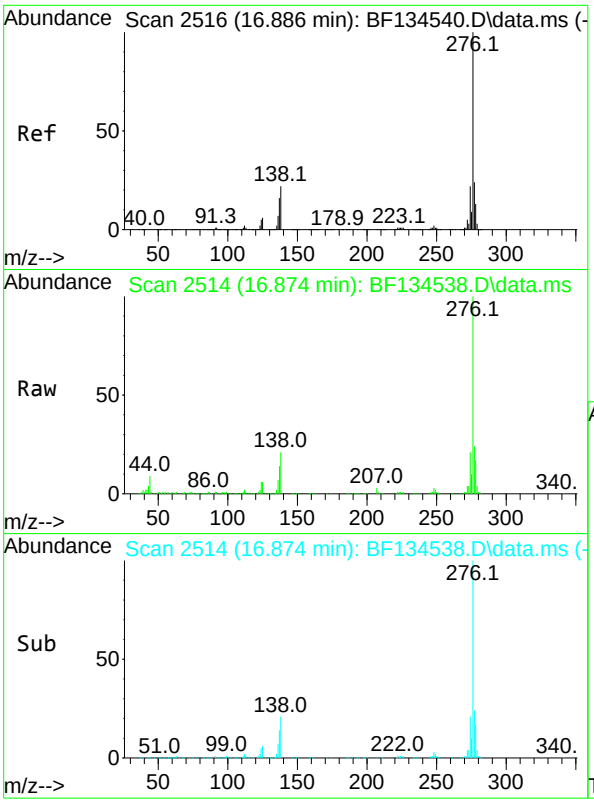


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.410 min Scan# 2265
Delta R.T. -0.006 min
Lab File: BF134538.D
Acq: 01 Aug 2023 08:54

Tgt Ion:264 Resp: 546905

Ion	Ratio	Lower	Upper
264	100		
260	23.7	18.4	27.6
265	22.2	15.8	23.8

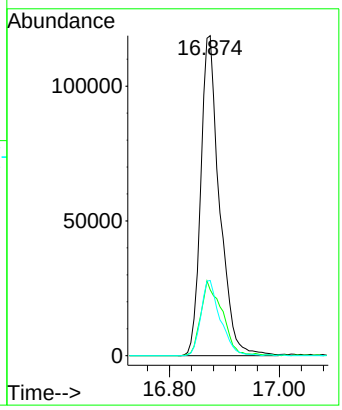




#87
Indeno(1,2,3-cd)pyrene
Concen: 8.744 ng
RT: 16.874 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF134538.D
Acq: 01 Aug 2023 08:54

Tgt Ion:276 Resp: 28124

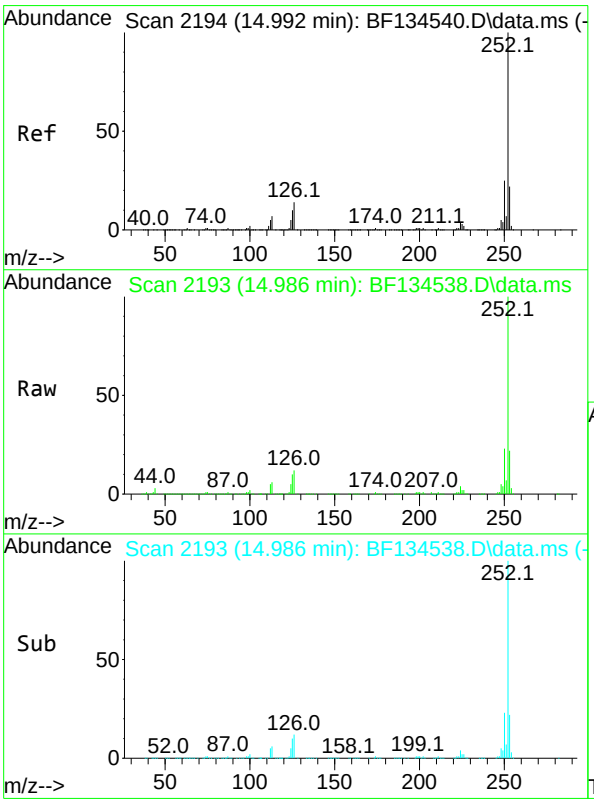
Ion	Ratio	Lower	Upper
276	100		
138	26.8	14.2	21.4#
277	24.3	19.9	29.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

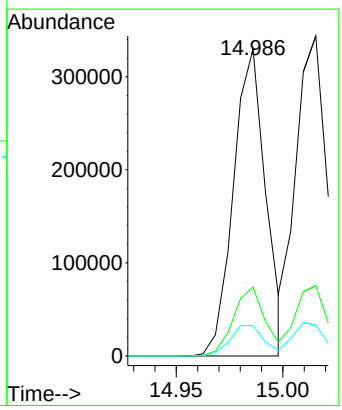
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

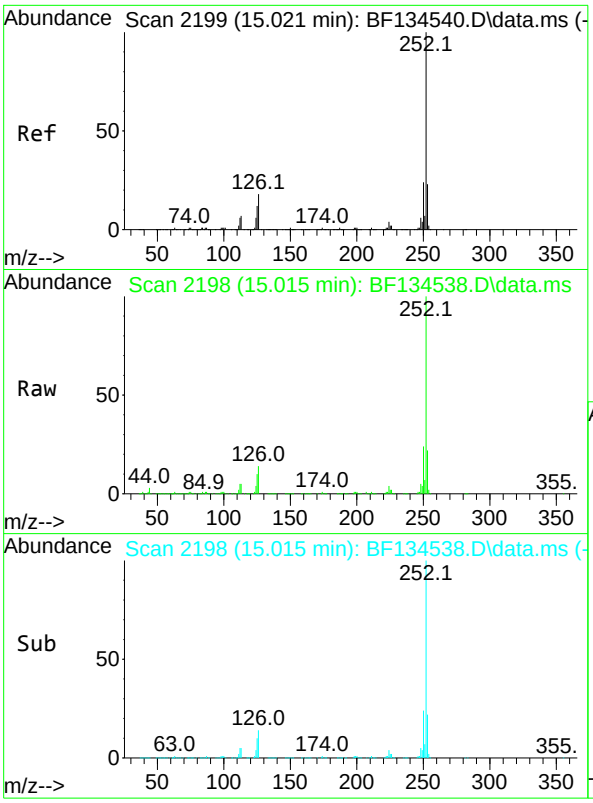


#88
Benzo(b)fluoranthene
Concen: 10.416 ng
RT: 14.986 min Scan# 2193
Delta R.T. -0.006 min
Lab File: BF134538.D
Acq: 01 Aug 2023 08:54

Tgt Ion:252 Resp: 347432

Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.3	25.9
125	9.9	6.0	9.0#

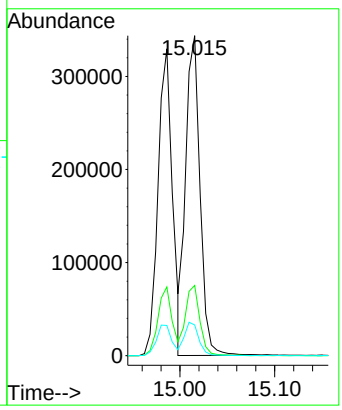




#89
Benzo(k)fluoranthene
Concen: 10.909 ng
RT: 15.015 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF134538.D
Acq: 01 Aug 2023 08:54

Tgt Ion:252 Resp: 36248

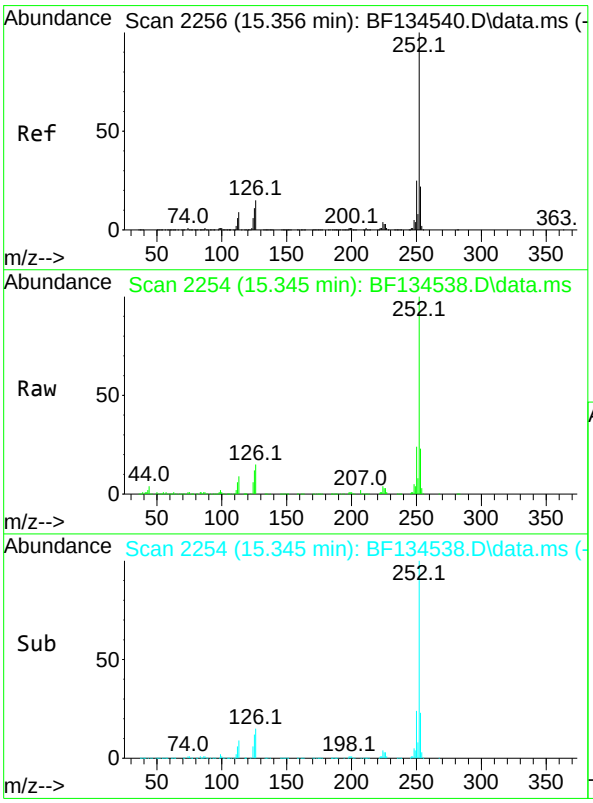
Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.9	26.9
125	9.6	6.3	9.5#



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

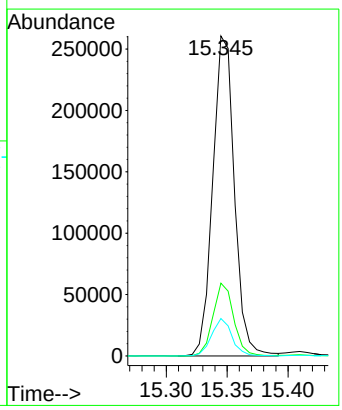
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

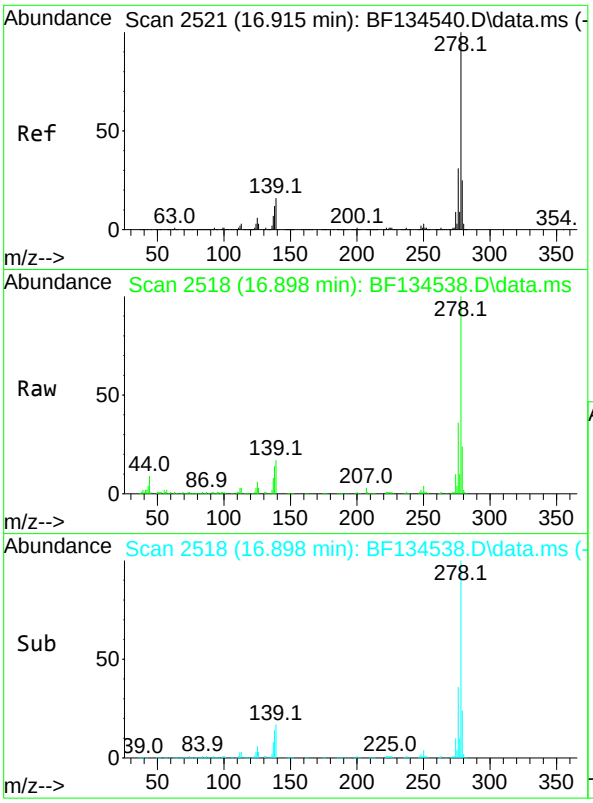


#90
Benzo(a)pyrene
Concen: 10.371 ng
RT: 15.345 min Scan# 2254
Delta R.T. -0.012 min
Lab File: BF134538.D
Acq: 01 Aug 2023 08:54

Tgt Ion:252 Resp: 322530

Ion	Ratio	Lower	Upper
252	100		
253	22.7	17.0	25.4
125	11.7	6.2	9.4#

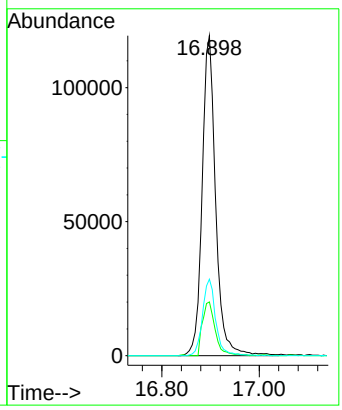




#91
Dibenzo(a,h)anthracene
Concen: 8.851 ng
RT: 16.898 min Scan# 2
Delta R.T. -0.018 min
Lab File: BF134538.D
Acq: 01 Aug 2023 08:54

Tgt Ion:278 Resp: 23008

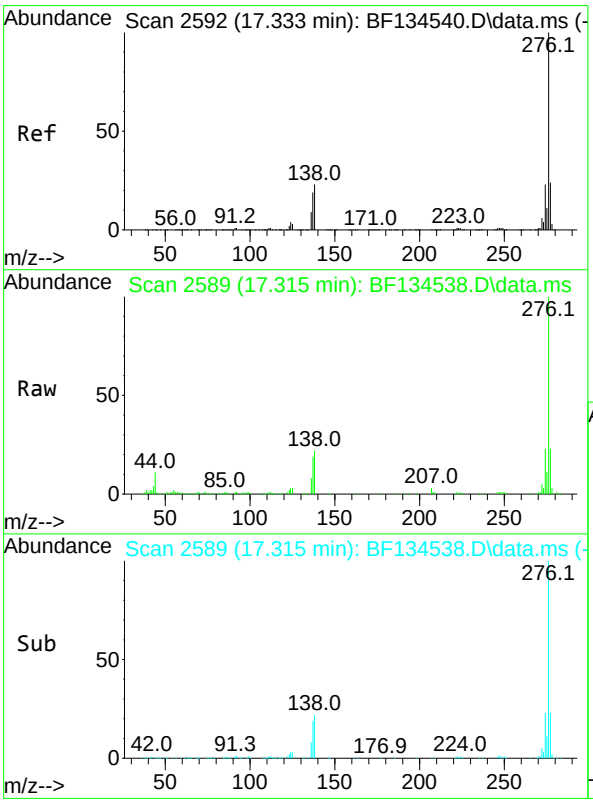
Ion	Ratio	Lower	Upper
278	100		
139	16.8	10.0	15.0#
279	23.9	19.7	29.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

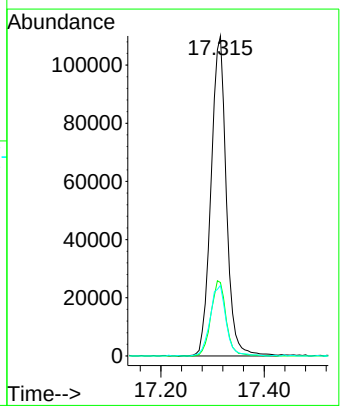
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023



#92
Benzo(g,h,i)perylene
Concen: 8.521 ng
RT: 17.315 min Scan# 2589
Delta R.T. -0.018 min
Lab File: BF134538.D
Acq: 01 Aug 2023 08:54

Tgt Ion:276 Resp: 225941

Ion	Ratio	Lower	Upper
276	100		
277	22.9	19.0	28.6
138	22.0	12.2	18.2#



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080123\
Data File : BF134539.D
Acq On : 01 Aug 2023 09:24
Operator : CG\JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 02 02:12:33 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 02 02:08:18 2023
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.792	152	205505	20.000	ng		0.00
21) Naphthalene-d8	8.075	136	802517	20.000	ng	#	0.00
39) Acenaphthene-d10	9.827	164	409349	20.000	ng		0.00
64) Phenanthrene-d10	11.310	188	740778	20.000	ng	#	0.00
76) Chrysene-d12	13.957	240	561492	20.000	ng	#	0.00
86) Perylene-d12	15.415	264	493588	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.410	112	604922	44.746	ng		0.00
7) Phenol-d6	6.416	99	762493	44.122	ng		-0.01
23) Nitrobenzene-d5	7.351	82	550934	42.902	ng		0.00
42) 2,4,6-Tribromophenol	10.610	330	181372	43.464	ng		0.00
45) 2-Fluorobiphenyl	9.151	172	1161296	47.170	ng		0.00
79) Terphenyl-d14	12.904	244	1299226	40.791	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.551	88	133274	21.426	ng		96
3) Pyridine	3.293	79	361508	21.448	ng		93
4) n-Nitrosodimethylamine	3.246	42	172063	21.365	ng	#	72
6) Aniline	6.457	93	490864	21.655	ng		92
8) 2-Chlorophenol	6.575	128	304461	22.325	ng		97
9) Benzaldehyde	6.345	77	205291	20.624	ng		97
10) Phenol	6.428	94	377244	22.150	ng		82
11) bis(2-Chloroethyl)ether	6.534	93	295771	21.862	ng		93
12) 1,3-Dichlorobenzene	6.734	146	309137	21.909	ng		95
13) 1,4-Dichlorobenzene	6.810	146	310929	21.988	ng		98
14) 1,2-Dichlorobenzene	6.963	146	297473	22.577	ng		96
15) Benzyl Alcohol	6.934	79	270355	22.677	ng		92
16) 2,2'-oxybis(1-Chloropr...	7.069	45	462112	21.803	ng		88
17) 2-Methylphenol	7.039	107	260426	21.610	ng		92
18) Hexachloroethane	7.304	117	109790	22.121	ng		98
19) n-Nitroso-di-n-propyla...	7.204	70	220905	21.350	ng		94
20) 3+4-Methylphenols	7.192	107	333341	22.936	ng	#	66
22) Acetophenone	7.198	105	412210	22.249	ng	#	90
24) Nitrobenzene	7.369	77	300492	21.659	ng		98
25) Isophorone	7.610	82	590275	21.074	ng		98
26) 2-Nitrophenol	7.686	139	93217	19.006	ng		93
27) 2,4-Dimethylphenol	7.722	122	269843	21.592	ng		85
28) bis(2-Chloroethoxy)met...	7.828	93	365280	21.801	ng		98
29) 2,4-Dichlorophenol	7.922	162	242471	21.377	ng		96
30) 1,2,4-Trichlorobenzene	8.010	180	260377	21.526	ng		98
31) Naphthalene	8.092	128	884248	21.924	ng		98
32) Benzoic acid	7.810	122	116284	19.793	ng		89
33) 4-Chloroaniline	8.139	127	384678	21.405	ng		98
34) Hexachlorobutadiene	8.216	225	150669	21.595	ng		95
35) Caprolactam	8.492	113	75557m	20.640	ng		
36) 4-Chloro-3-methylphenol	8.616	107	259240	21.581	ng		92
37) 2-Methylnaphthalene	8.786	142	596117	22.298	ng		98
38) 1-Methylnaphthalene	8.880	142	548790	22.075	ng		98
40) 1,2,4,5-Tetrachloroben...	8.945	216	258076	21.681	ng		99
41) Hexachlorocyclopentadiene	8.939	237	121108	20.922	ng		95
43) 2,4,6-Trichlorophenol	9.057	196	167446	21.494	ng		96

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080123\
Data File : BF134539.D
Acq On : 01 Aug 2023 09:24
Operator : CG\JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 02 02:12:33 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 02 02:08:18 2023
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.092	196	189956	21.334	ng		93
46) 1,1'-Biphenyl	9.251	154	698066	21.930	ng		98
47) 2-Chloronaphthalene	9.269	162	518370	21.733	ng		99
48) 2-Nitroaniline	9.363	65	133908	19.986	ng		97
49) Acenaphthylene	9.686	152	822058	21.926	ng		99
50) Dimethylphthalate	9.551	163	596997	21.398	ng		99
51) 2,6-Dinitrotoluene	9.610	165	107097	20.256	ng		92
52) Acenaphthene	9.857	154	529808	21.806	ng		98
53) 3-Nitroaniline	9.775	138	129663	20.851	ng	#	86
54) 2,4-Dinitrophenol	9.875	184	22881	19.302	ng	#	87
55) Dibenzofuran	10.033	168	757752	21.908	ng		94
56) 4-Nitrophenol	9.922	139	99812	19.625	ng		87
57) 2,4-Dinitrotoluene	10.010	165	122077	19.481	ng	#	93
58) Fluorene	10.375	166	568956	22.584	ng		95
59) 2,3,4,6-Tetrachlorophenol	10.145	232	149694m	21.215	ng		
60) Diethylphthalate	10.257	149	571313	21.604	ng		96
61) 4-Chlorophenyl-phenyle...	10.369	204	277586	22.416	ng		98
62) 4-Nitroaniline	10.386	138	125673	20.618	ng		88
63) Azobenzene	10.527	77	614950	21.643	ng		96
65) 4,6-Dinitro-2-methylph...	10.416	198	39668	19.547	ng		85
66) n-Nitrosodiphenylamine	10.486	169	514687	21.829	ng		99
67) 4-Bromophenyl-phenylether	10.863	248	176965	21.823	ng		94
68) Hexachlorobenzene	10.916	284	185898	21.709	ng		98
69) Atrazine	11.016	200	141421	22.253	ng		98
70) Pentachlorophenol	11.110	266	114893	21.670	ng		97
71) Phenanthrene	11.333	178	871757	22.156	ng		99
72) Anthracene	11.386	178	895442	22.280	ng		99
73) Carbazole	11.545	167	790109	22.017	ng		98
74) Di-n-butylphthalate	11.886	149	855704	22.445	ng		99
75) Fluoranthene	12.527	202	920495	22.147	ng		98
77) Benzidine	12.651	184	231288	18.975	ng		99
78) Pyrene	12.751	202	969134	19.946	ng		98
80) Butylbenzylphthalate	13.386	149	320565	19.512	ng		90
81) Benzo(a)anthracene	13.945	228	832327	20.731	ng		99
82) 3,3'-Dichlorobenzidine	13.915	252	246053	21.143	ng		97
83) Chrysene	13.980	228	807039	20.632	ng		99
84) Bis(2-ethylhexyl)phtha...	13.957	149	399195	20.647	ng		99
85) Di-n-octyl phthalate	14.568	149	585250	19.905	ng		95
87) Indeno(1,2,3-cd)pyrene	16.874	276	543611	18.726	ng	#	92
88) Benzo(b)fluoranthene	14.986	252	670528	22.274	ng	#	97
89) Benzo(k)fluoranthene	15.015	252	639919	21.339	ng	#	98
90) Benzo(a)pyrene	15.351	252	581255	20.709	ng	#	96
91) Dibenzo(a,h)anthracene	16.898	278	438812	18.705	ng	#	95
92) Benzo(g,h,i)perylene	17.315	276	442511	18.491	ng	#	91

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

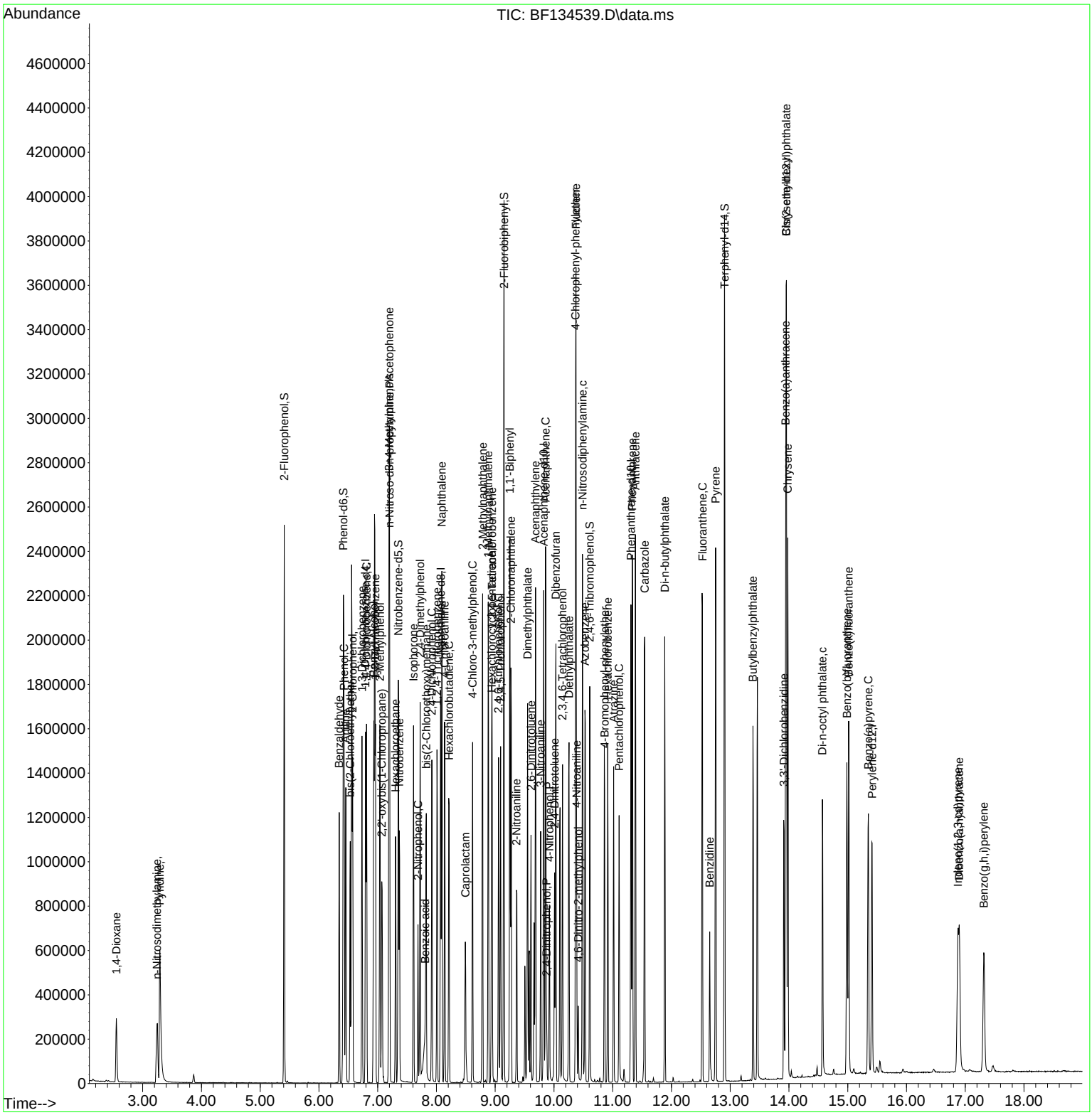
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080123\
Data File : BF134539.D
Acq On : 01 Aug 2023 09:24
Operator : CG\JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

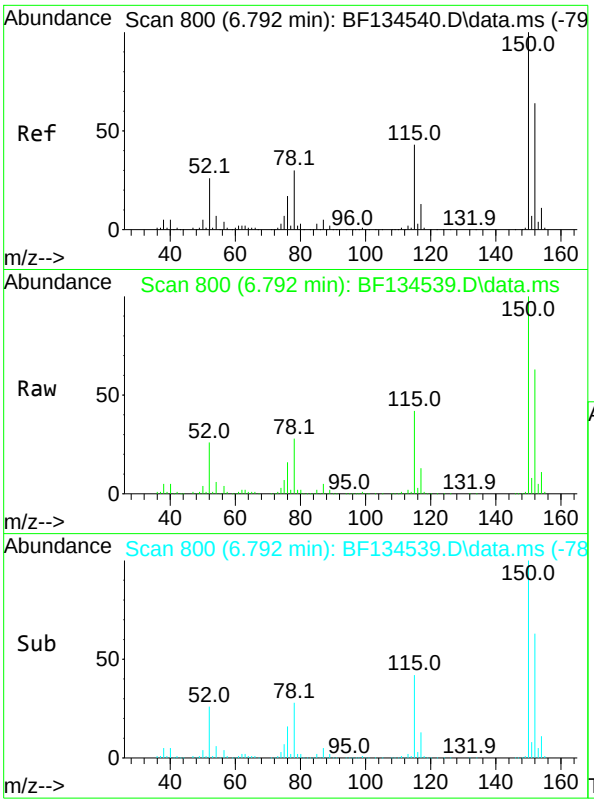
Quant Time: Aug 02 02:12:33 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 02 02:08:18 2023
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

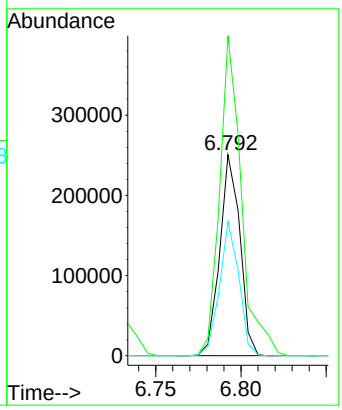




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.792 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF134539.D
Acq: 01 Aug 2023 09:24

Tgt Ion:152 Resp: 20550

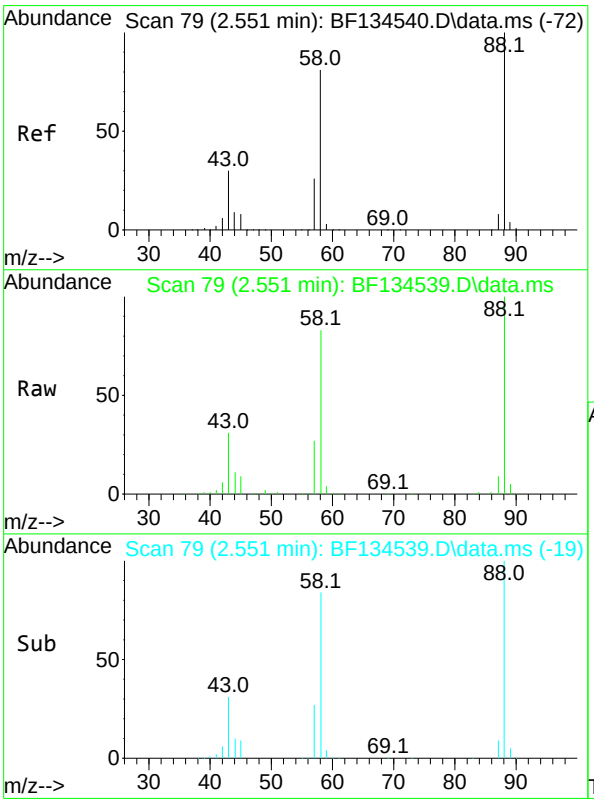
Ion	Ratio	Lower	Upper
152	100		
150	159.4	128.3	192.5
115	66.8	52.4	78.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

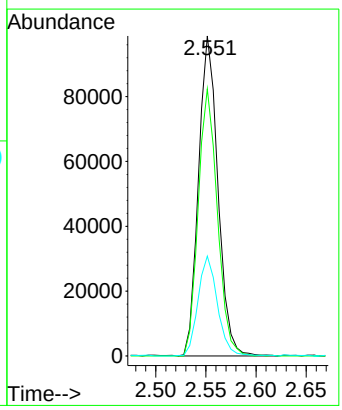
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

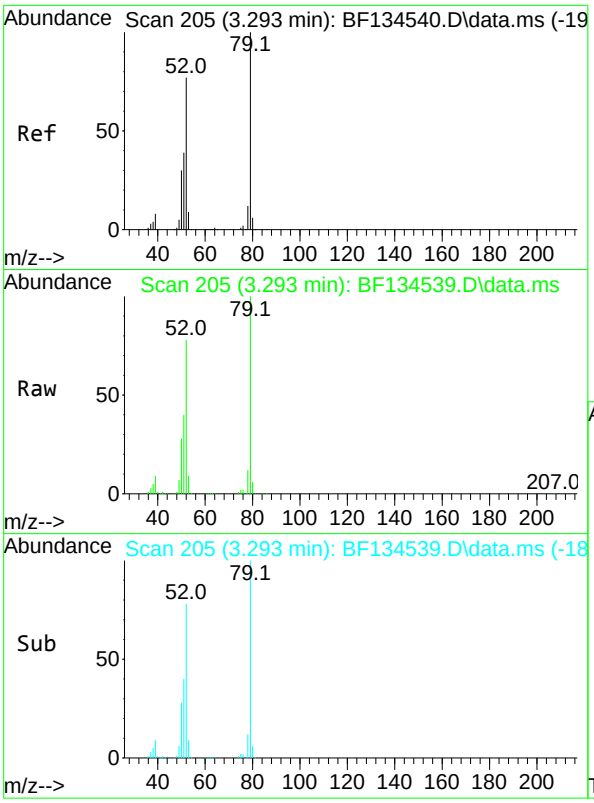


#2
1,4-Dioxane
Concen: 21.426 ng
RT: 2.551 min Scan# 79
Delta R.T. 0.000 min
Lab File: BF134539.D
Acq: 01 Aug 2023 09:24

Tgt Ion: 88 Resp: 133274

Ion	Ratio	Lower	Upper
88	100		
58	82.3	65.1	97.7
43	31.4	30.3	45.5

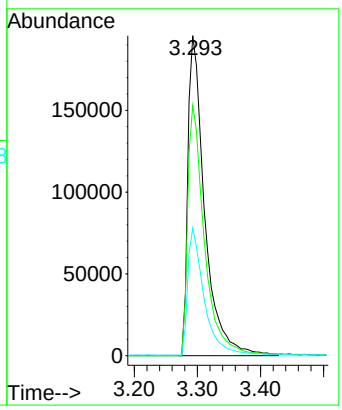




#3
Pyridine
Concen: 21.448 ng
RT: 3.293 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF134539.D
Acq: 01 Aug 2023 09:24

Tgt Ion: 79 Resp: 36150

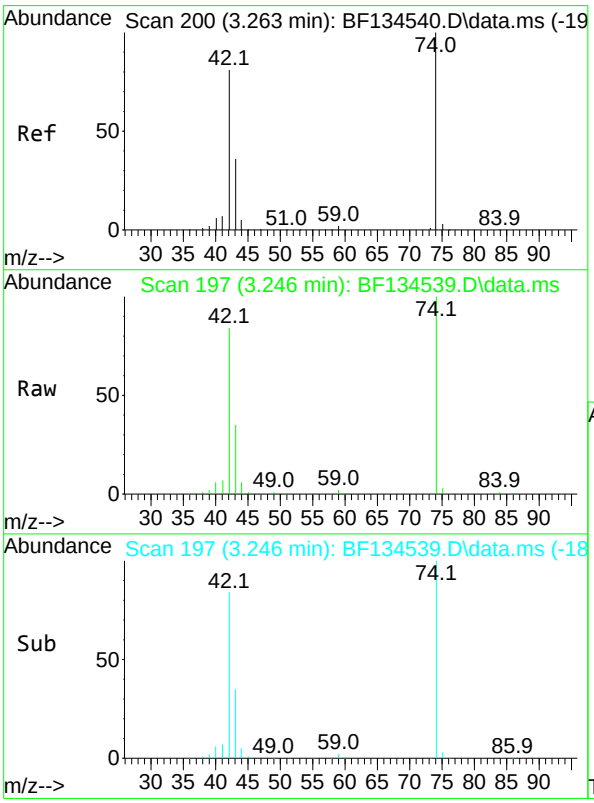
Ion	Ratio	Lower	Upper
79	100		
52	78.2	66.6	100.0
51	39.9	36.5	54.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

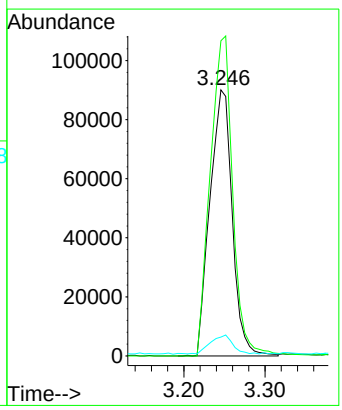
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

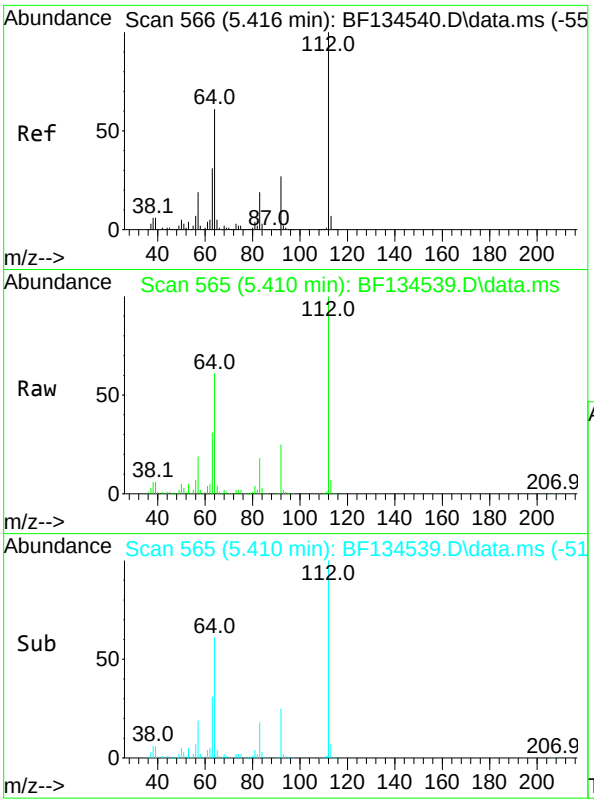


#4
n-Nitrosodimethylamine
Concen: 21.365 ng
RT: 3.246 min Scan# 197
Delta R.T. -0.018 min
Lab File: BF134539.D
Acq: 01 Aug 2023 09:24

Tgt Ion: 42 Resp: 172063

Ion	Ratio	Lower	Upper
42	100		
74	118.4	72.2	108.4#
44	7.1	5.4	8.0

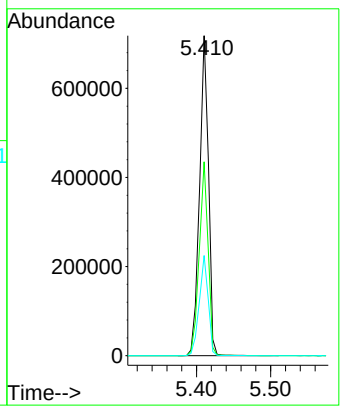




#5
2-Fluorophenol
Concen: 44.746 ng
RT: 5.410 min Scan# 5
Delta R.T. -0.006 min
Lab File: BF134539.D
Acq: 01 Aug 2023 09:24

Tgt Ion:112 Resp: 60492

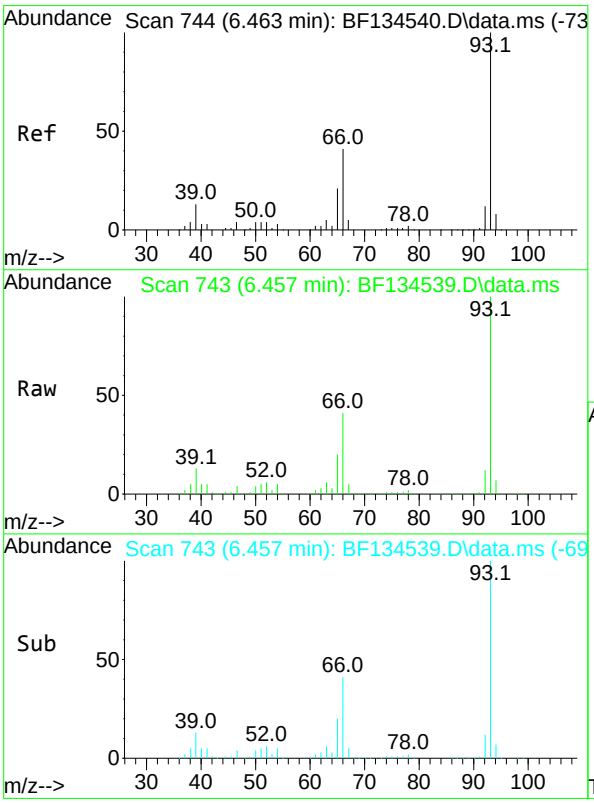
Ion	Ratio	Lower	Upper
112	100		
64	60.6	44.9	67.3
63	31.3	25.4	38.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

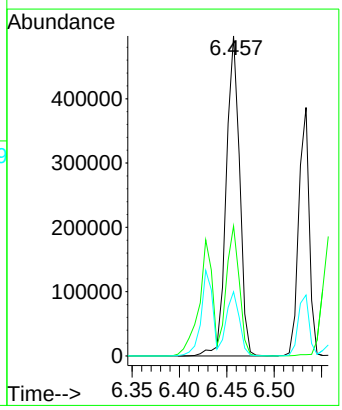
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

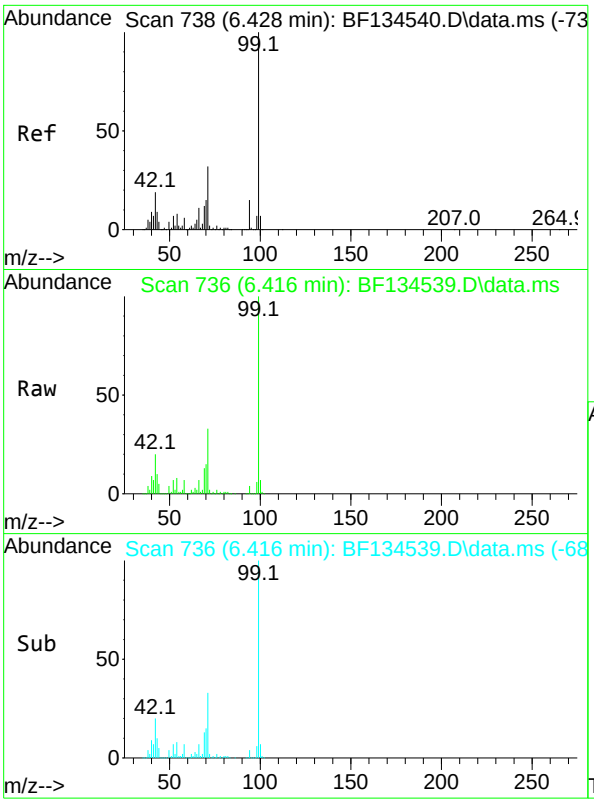


#6
Aniline
Concen: 21.655 ng
RT: 6.457 min Scan# 743
Delta R.T. -0.006 min
Lab File: BF134539.D
Acq: 01 Aug 2023 09:24

Tgt Ion: 93 Resp: 490864

Ion	Ratio	Lower	Upper
93	100		
66	40.6	36.8	55.2
65	20.1	19.4	29.0

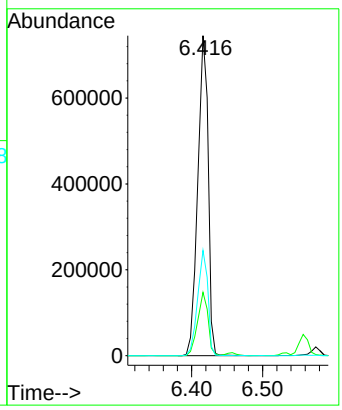




#7
Phenol-d6
Concen: 44.122 ng
RT: 6.416 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF134539.D
Acq: 01 Aug 2023 09:24

Tgt Ion: 99 Resp: 76249

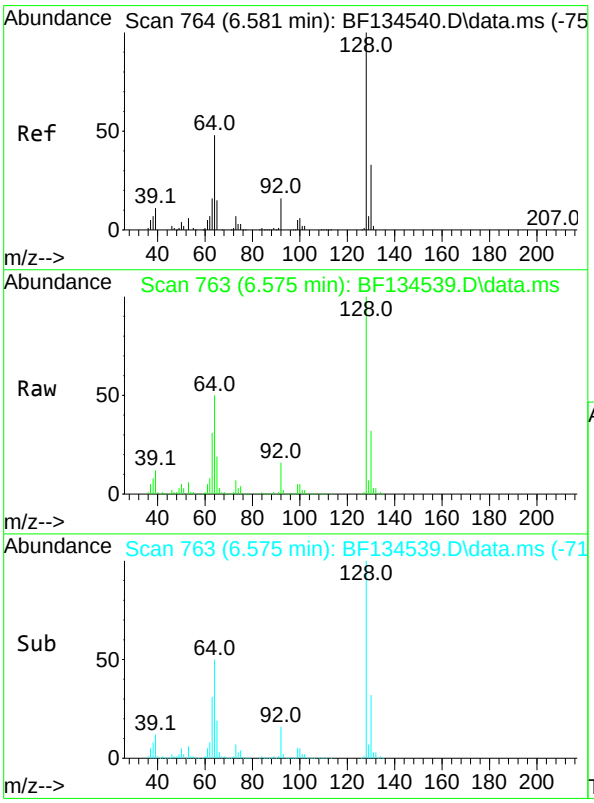
Ion	Ratio	Lower	Upper
99	100		
42	19.8	18.7	28.1
71	32.9	36.4	54.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

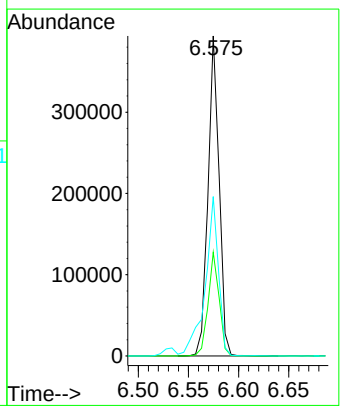
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

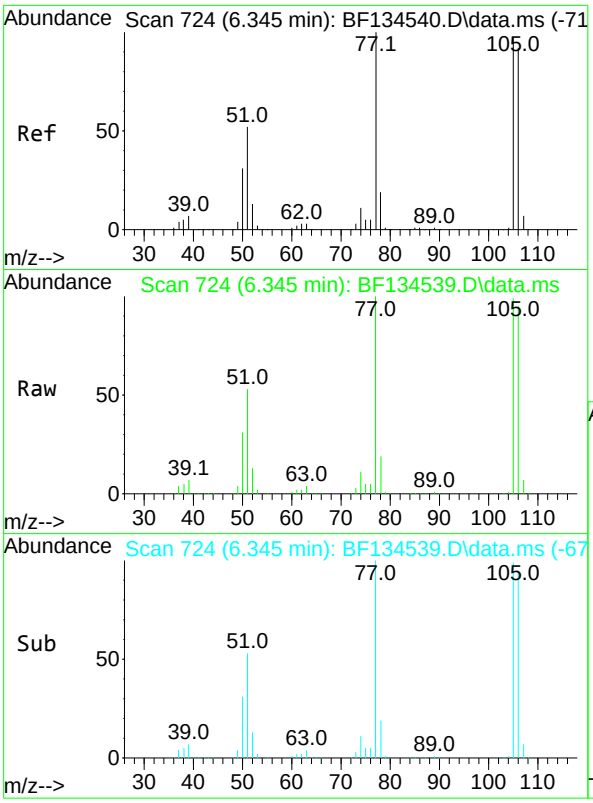


#8
2-Chlorophenol
Concen: 22.325 ng
RT: 6.575 min Scan# 763
Delta R.T. -0.006 min
Lab File: BF134539.D
Acq: 01 Aug 2023 09:24

Tgt Ion:128 Resp: 304461

Ion	Ratio	Lower	Upper
128	100		
130	32.4	11.1	51.1
64	49.8	31.9	71.9

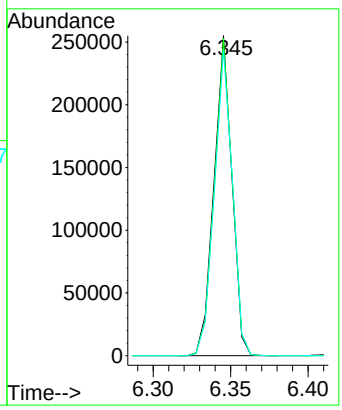




#9
Benzaldehyde
Concen: 20.624 ng
RT: 6.345 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF134539.D
Acq: 01 Aug 2023 09:24

Tgt Ion: 77 Resp: 20529

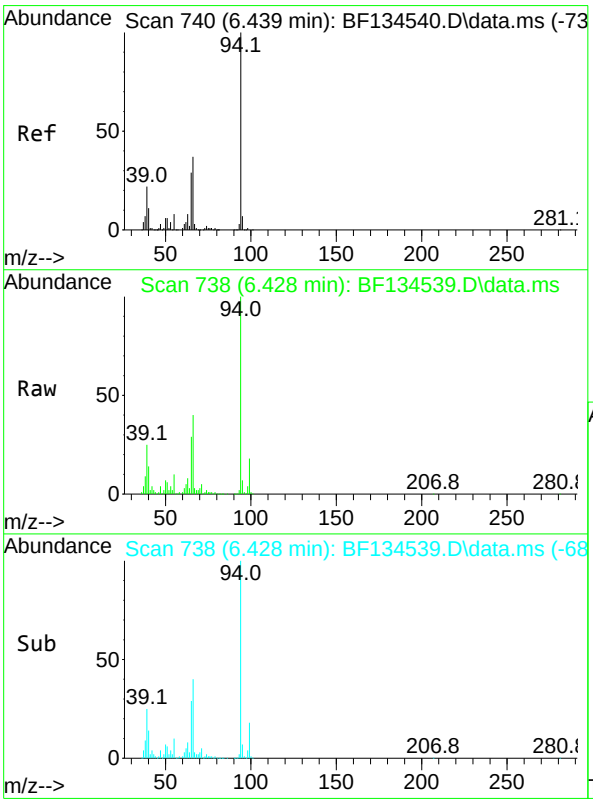
Ion	Ratio	Lower	Upper
77	100		
105	99.1	77.1	117.1
106	95.5	71.4	111.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

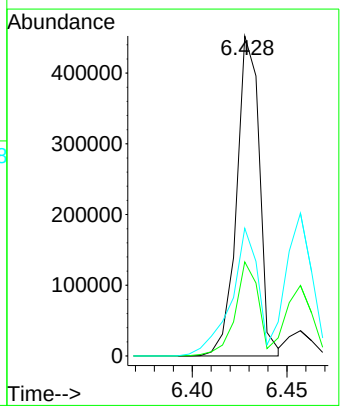
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

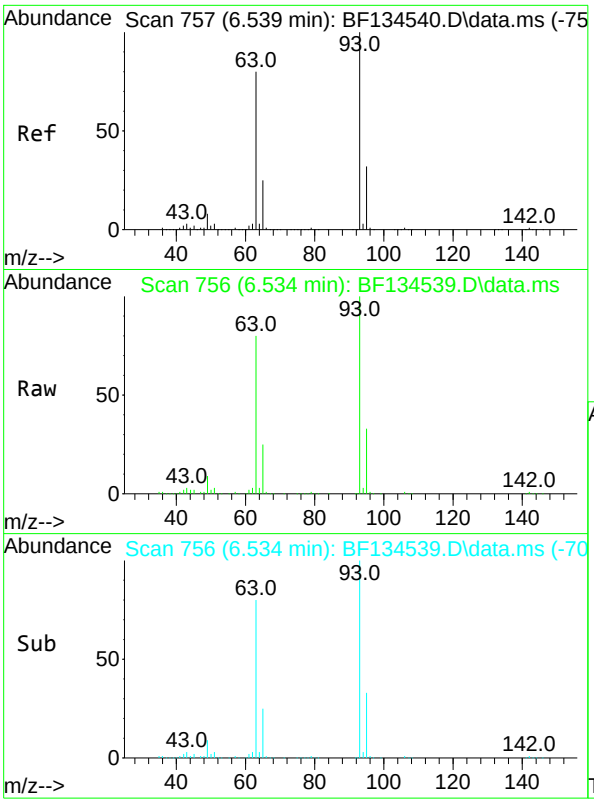


#10
Phenol
Concen: 22.150 ng
RT: 6.428 min Scan# 738
Delta R.T. -0.012 min
Lab File: BF134539.D
Acq: 01 Aug 2023 09:24

Tgt Ion: 94 Resp: 377244

Ion	Ratio	Lower	Upper
94	100		
65	29.4	17.8	57.8
66	39.9	35.2	75.2

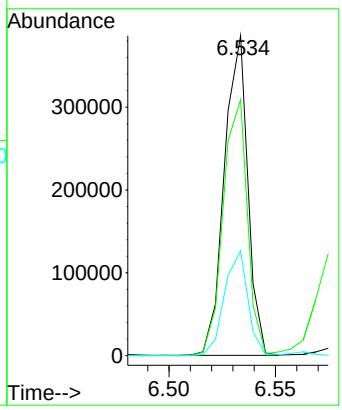




#11
bis(2-Chloroethyl)ether
Concen: 21.862 ng
RT: 6.534 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF134539.D
Acq: 01 Aug 2023 09:24

Tgt Ion: 93 Resp: 29577

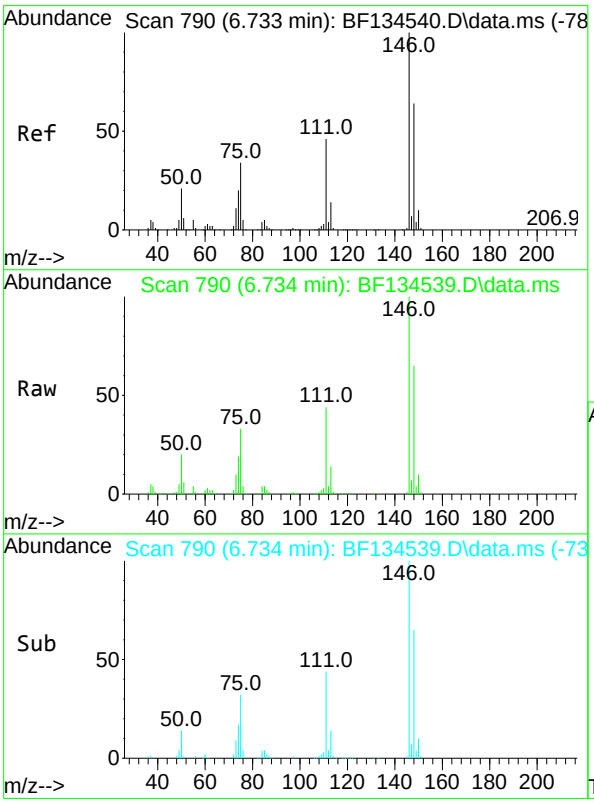
Ion	Ratio	Lower	Upper
93	100		
63	80.0	68.4	108.4
95	32.8	12.4	52.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

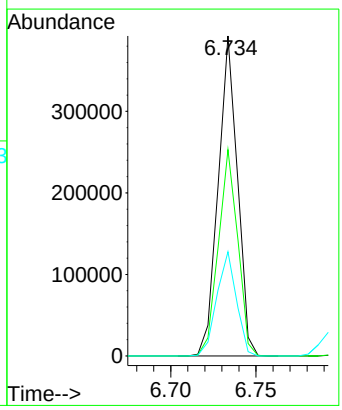
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

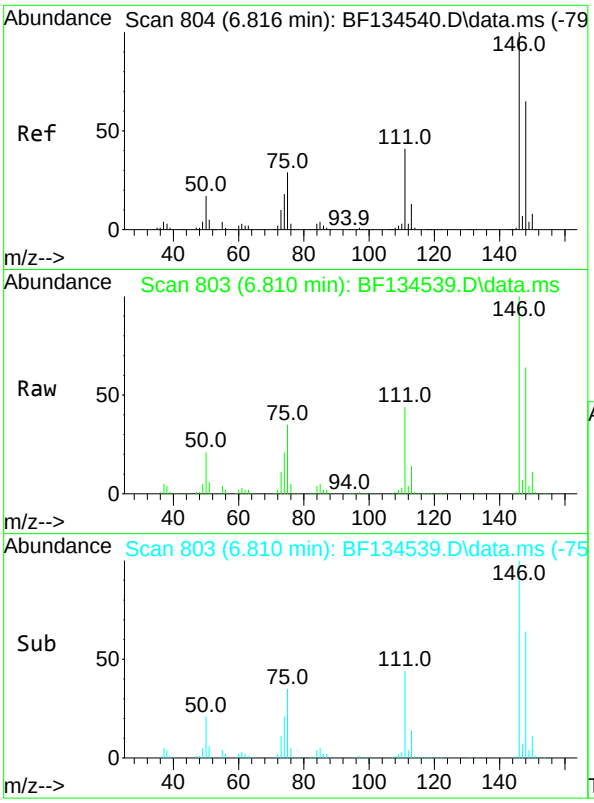


#12
1,3-Dichlorobenzene
Concen: 21.909 ng
RT: 6.734 min Scan# 790
Delta R.T. 0.000 min
Lab File: BF134539.D
Acq: 01 Aug 2023 09:24

Tgt Ion:146 Resp: 309137

Ion	Ratio	Lower	Upper
146	100		
148	64.5	49.7	74.5
75	32.6	29.5	44.3

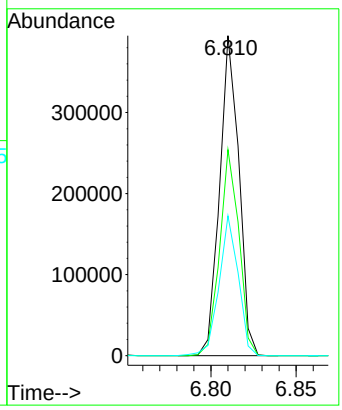




#13
1,4-Dichlorobenzene
Concen: 21.988 ng
RT: 6.810 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF134539.D
Acq: 01 Aug 2023 09:24

Tgt Ion:146 Resp: 31092

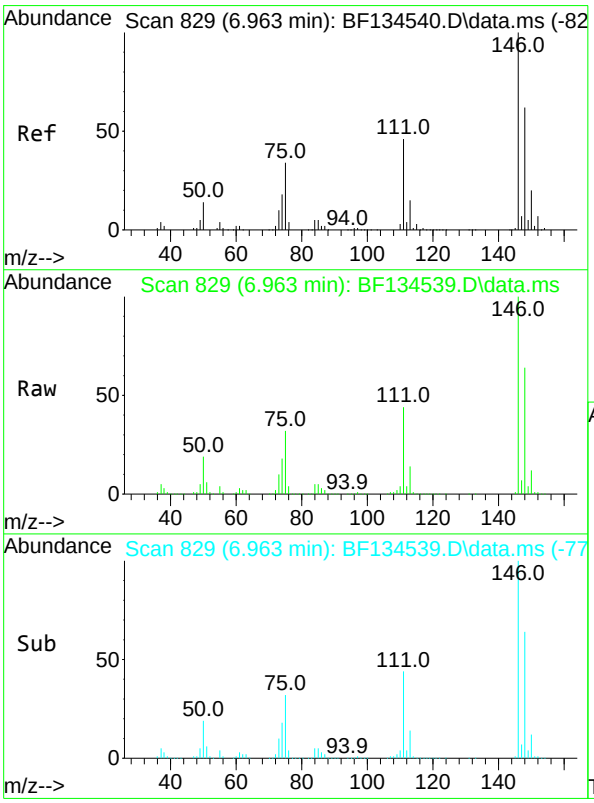
Ion	Ratio	Lower	Upper
146	100		
148	64.4	51.3	76.9
111	43.7	36.6	55.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

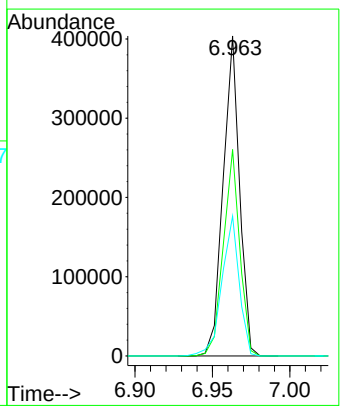
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

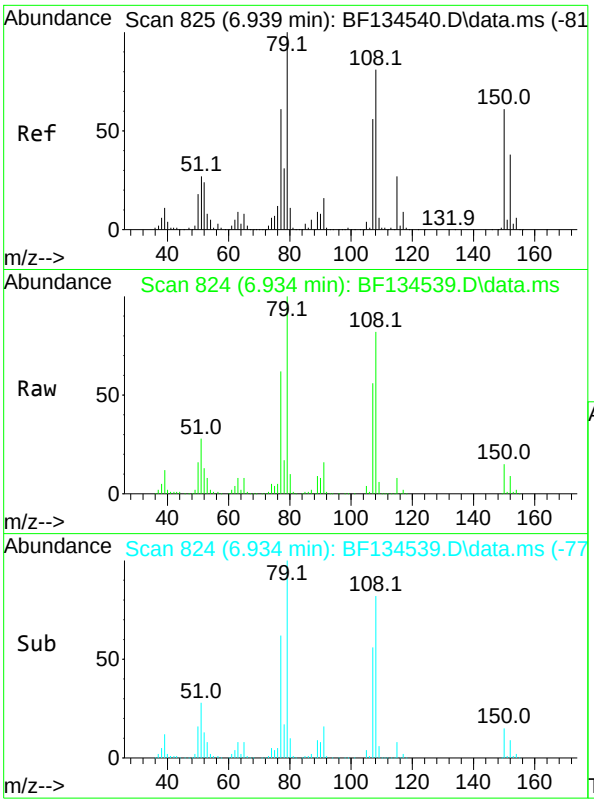


#14
1,2-Dichlorobenzene
Concen: 22.577 ng
RT: 6.963 min Scan# 829
Delta R.T. 0.000 min
Lab File: BF134539.D
Acq: 01 Aug 2023 09:24

Tgt Ion:146 Resp: 297473

Ion	Ratio	Lower	Upper
146	100		
148	64.5	51.2	76.8
111	43.7	39.9	59.9

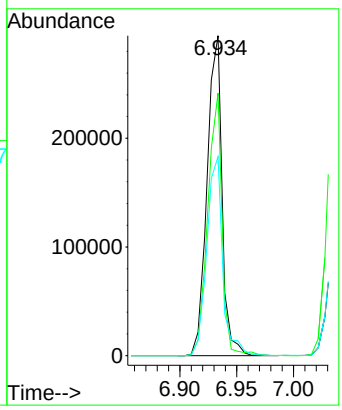




#15
Benzyl Alcohol
Concen: 22.677 ng
RT: 6.934 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF134539.D
Acq: 01 Aug 2023 09:24

Tgt Ion: 79 Resp: 27035

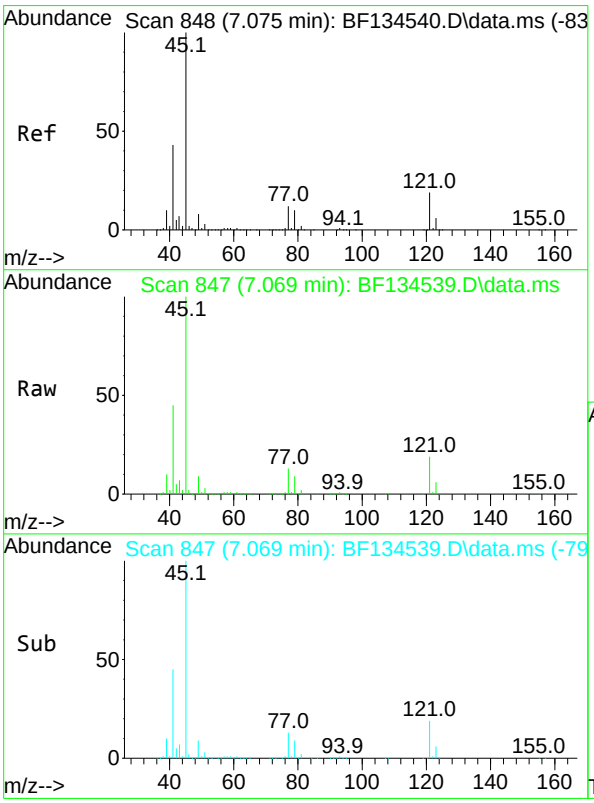
Ion	Ratio	Lower	Upper
79	100		
108	82.1	56.3	84.5
77	62.2	50.6	76.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

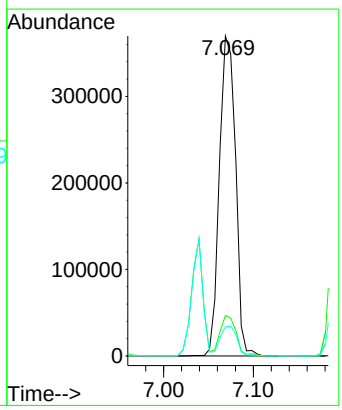
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

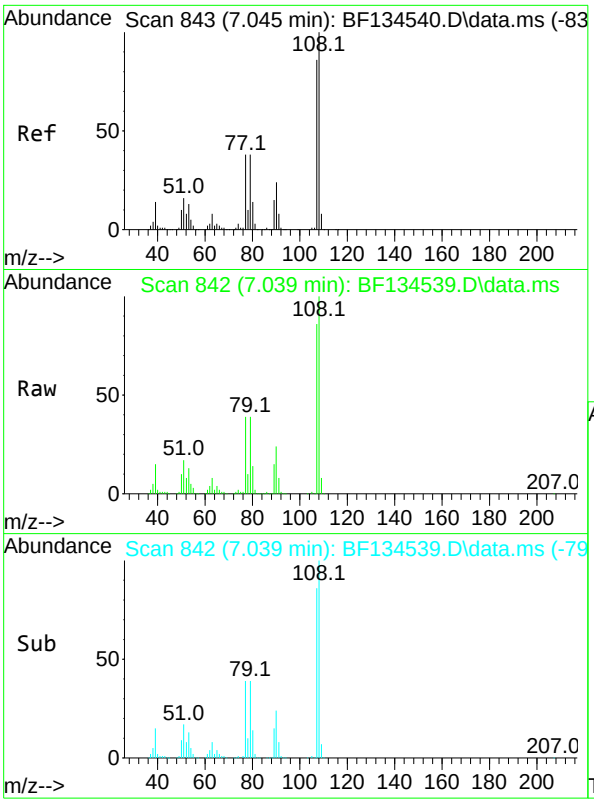


#16
2,2'-oxybis(1-Chloropropane)
Concen: 21.803 ng
RT: 7.069 min Scan# 847
Delta R.T. -0.006 min
Lab File: BF134539.D
Acq: 01 Aug 2023 09:24

Tgt Ion: 45 Resp: 462112

Ion	Ratio	Lower	Upper
45	100		
77	12.7	0.0	37.8
79	9.1	0.0	34.5

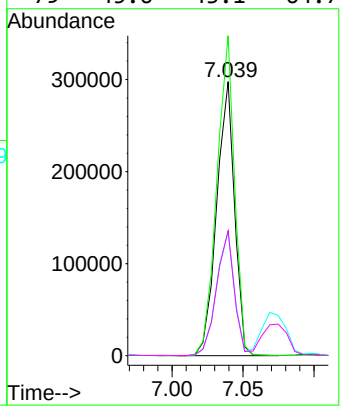




#17
2-Methylphenol
Concen: 21.610 ng
RT: 7.039 min Scan# 84
Delta R.T. -0.006 min
Lab File: BF134539.D
Acq: 01 Aug 2023 09:24

Tgt Ion:107 Resp: 26042

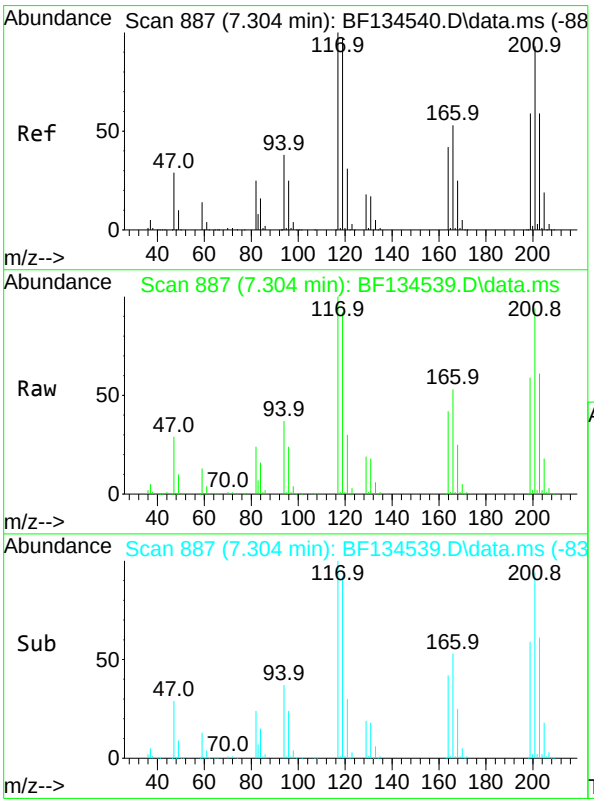
Ion	Ratio	Lower	Upper
107	100		
108	116.7	89.4	134.2
77	45.4	42.4	63.6
79	45.6	43.1	64.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

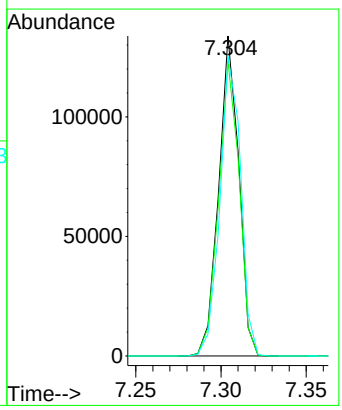
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

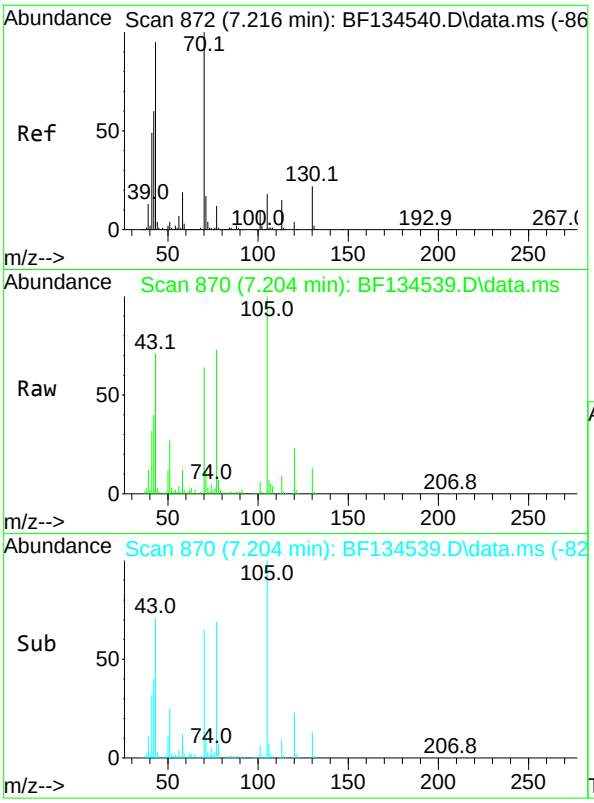


#18
Hexachloroethane
Concen: 22.121 ng
RT: 7.304 min Scan# 887
Delta R.T. 0.000 min
Lab File: BF134539.D
Acq: 01 Aug 2023 09:24

Tgt Ion:117 Resp: 109790

Ion	Ratio	Lower	Upper
117	100		
119	92.1	75.8	113.8
201	93.5	73.6	110.4

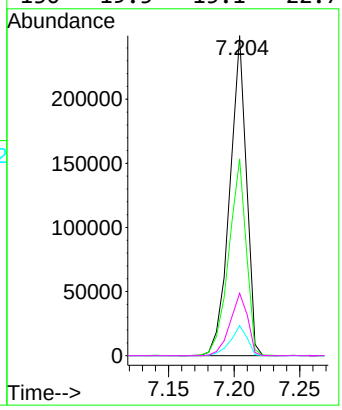




#19
n-Nitroso-di-n-propylamine
Concen: 21.350 ng
RT: 7.204 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF134539.D
Acq: 01 Aug 2023 09:24

Tgt Ion: 70 Resp: 22090

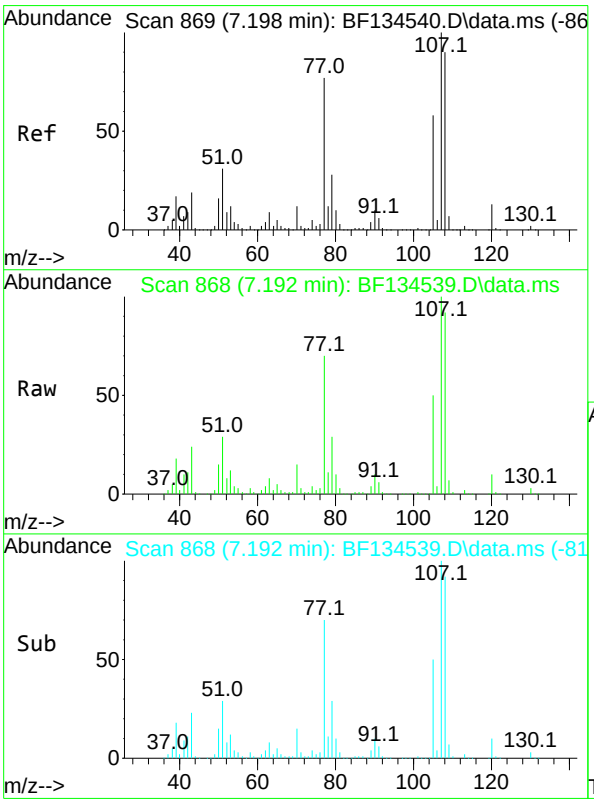
Ion	Ratio	Lower	Upper
70	100		
42	61.5	54.7	82.1
101	9.4	8.2	12.2
130	19.5	15.1	22.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

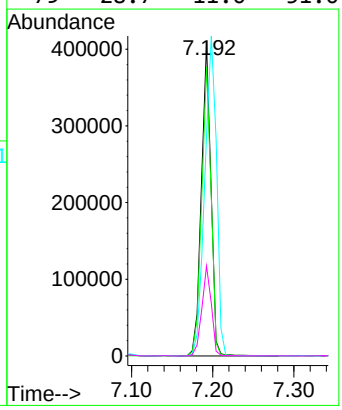
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

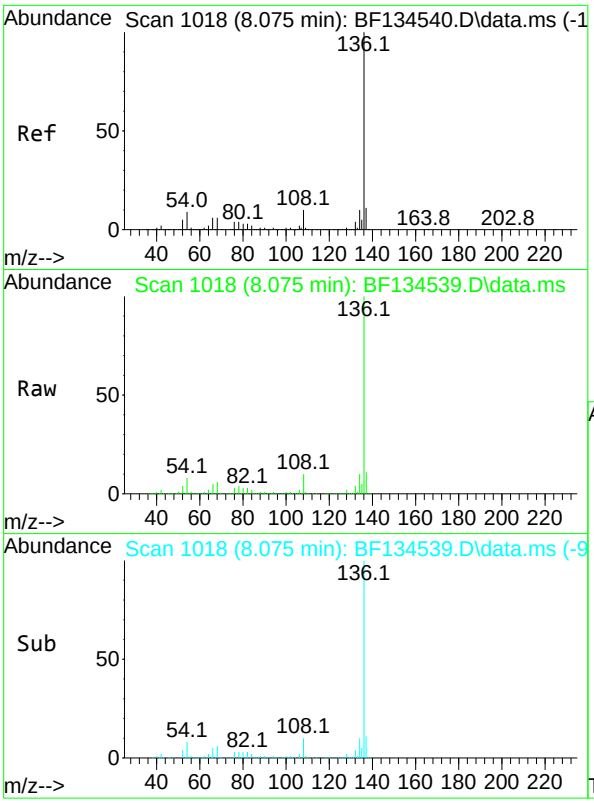


#20
3+4-Methylphenols
Concen: 22.936 ng
RT: 7.192 min Scan# 868
Delta R.T. -0.006 min
Lab File: BF134539.D
Acq: 01 Aug 2023 09:24

Tgt Ion:107 Resp: 333341

Ion	Ratio	Lower	Upper
107	100		
108	92.4	68.1	108.1
77	70.3	122.1	162.1#
79	28.7	11.0	51.0

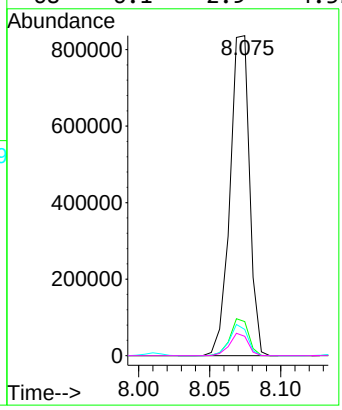




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.075 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134539.D
Acq: 01 Aug 2023 09:24

Tgt Ion:136 Resp: 80251

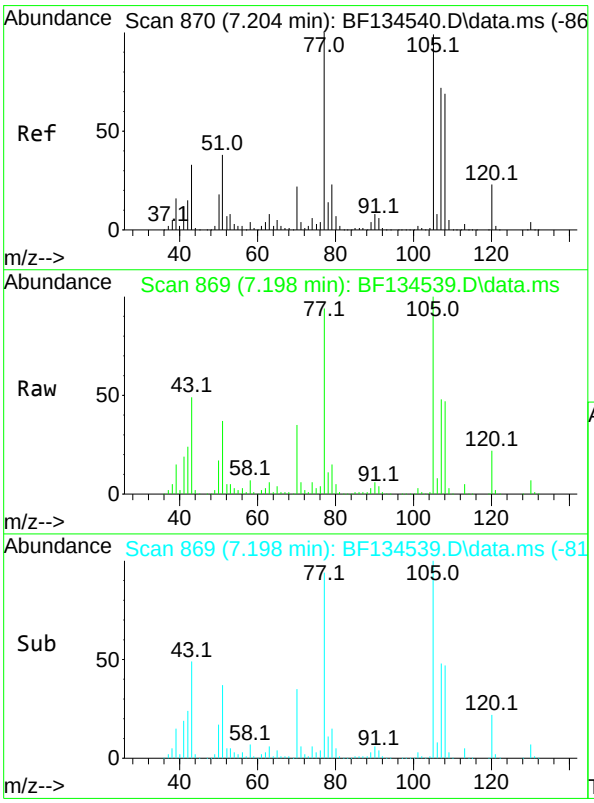
Ion	Ratio	Lower	Upper
136	100		
137	10.6	8.4	12.6
54	8.2	5.2	7.8#
68	6.1	2.9	4.3#



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

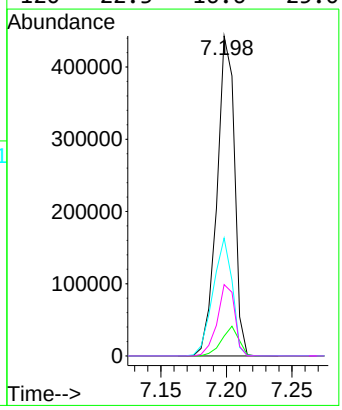
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

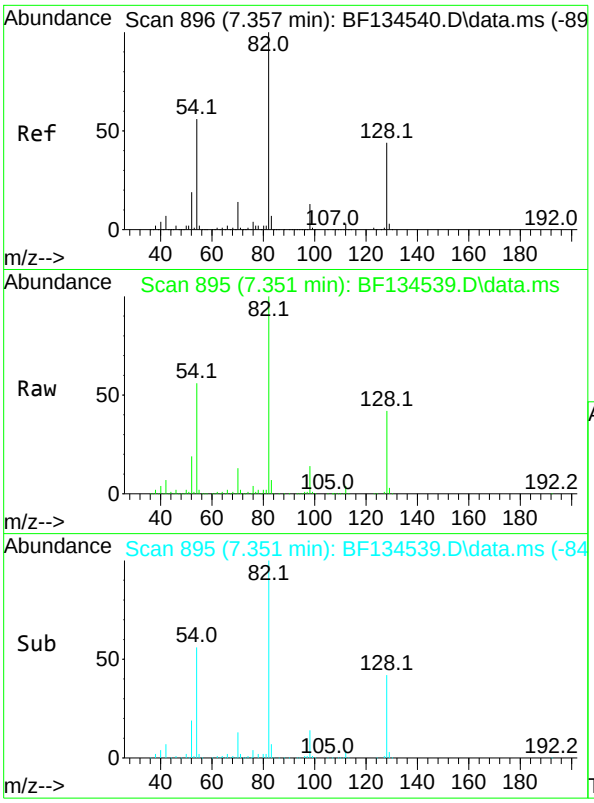


#22
Acetophenone
Concen: 22.249 ng
RT: 7.198 min Scan# 869
Delta R.T. -0.006 min
Lab File: BF134539.D
Acq: 01 Aug 2023 09:24

Tgt Ion:105 Resp: 412210

Ion	Ratio	Lower	Upper
105	100		
71	6.2	7.4	11.0#
51	36.9	36.4	54.6
120	22.3	16.6	25.0

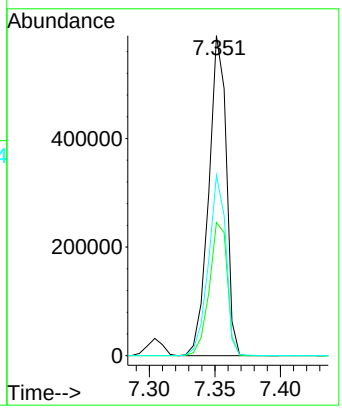




#23
Nitrobenzene-d5
Concen: 42.902 ng
RT: 7.351 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF134539.D
Acq: 01 Aug 2023 09:24

Tgt Ion: 82 Resp: 55093

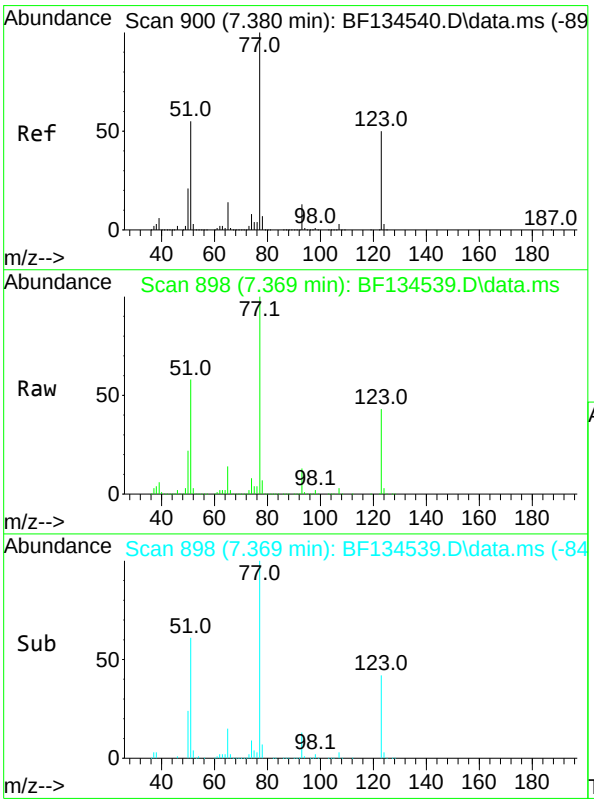
Ion	Ratio	Lower	Upper
82	100		
128	41.7	34.3	51.5
54	56.4	43.8	65.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

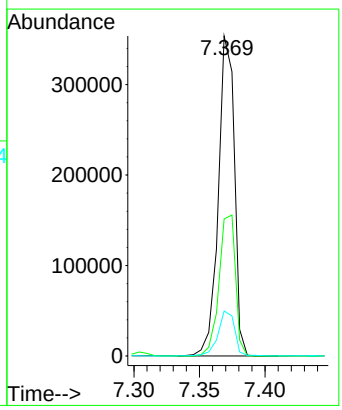
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

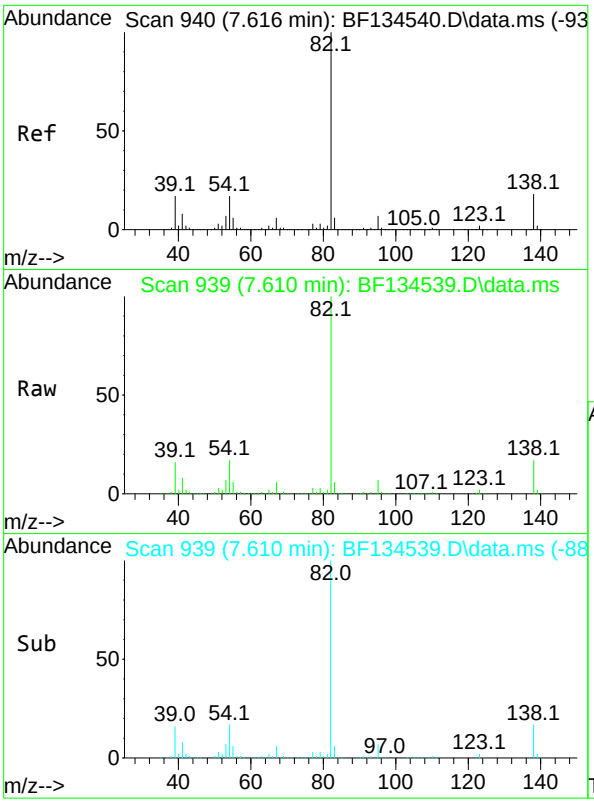


#24
Nitrobenzene
Concen: 21.659 ng
RT: 7.369 min Scan# 898
Delta R.T. -0.012 min
Lab File: BF134539.D
Acq: 01 Aug 2023 09:24

Tgt Ion: 77 Resp: 300492

Ion	Ratio	Lower	Upper
77	100		
123	42.8	35.5	53.3
65	14.1	11.9	17.9

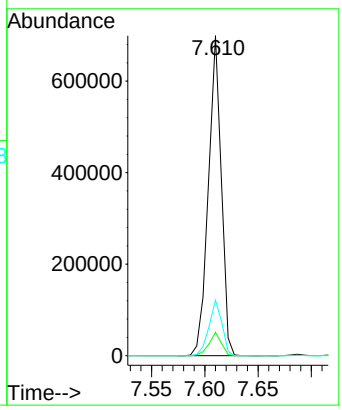




#25
Isophorone
Concen: 21.074 ng
RT: 7.610 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF134539.D
Acq: 01 Aug 2023 09:24

Tgt Ion: 82 Resp: 59027

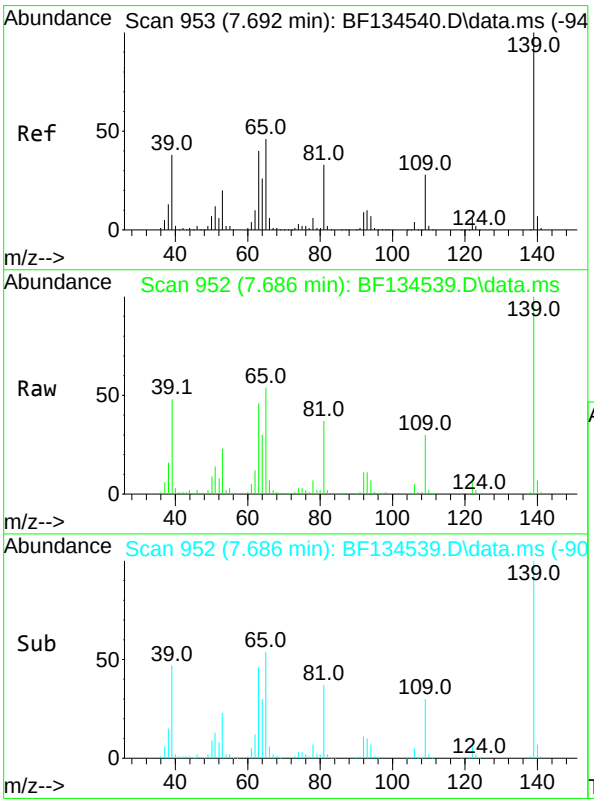
Ion	Ratio	Lower	Upper
82	100		
95	7.3	6.0	9.0
138	17.4	14.6	22.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

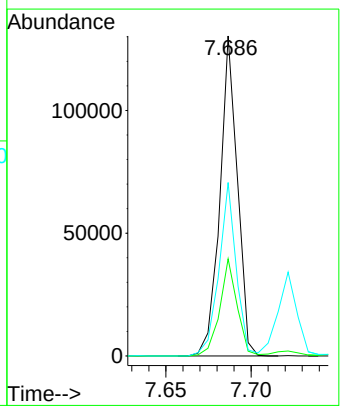
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

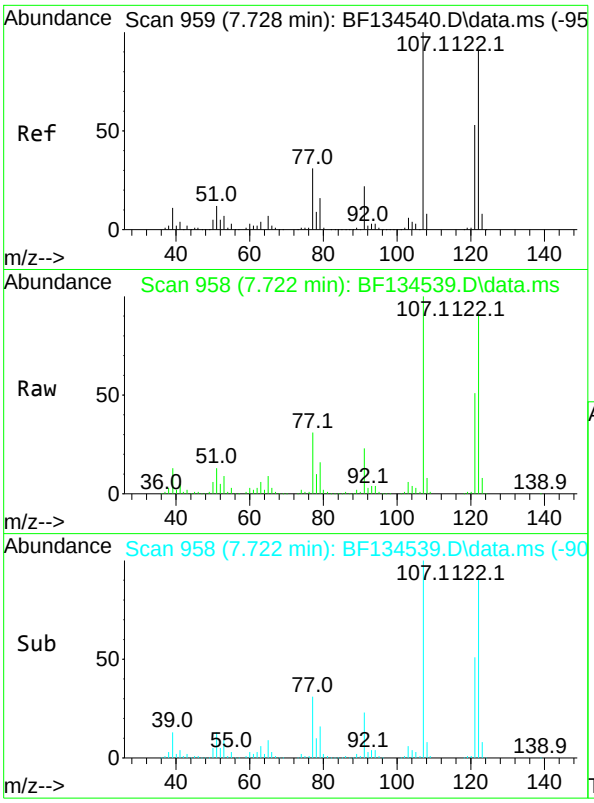


#26
2-Nitrophenol
Concen: 19.006 ng
RT: 7.686 min Scan# 952
Delta R.T. -0.006 min
Lab File: BF134539.D
Acq: 01 Aug 2023 09:24

Tgt Ion:139 Resp: 93217

Ion	Ratio	Lower	Upper
139	100		
109	30.4	29.8	44.6
65	54.2	45.4	68.2

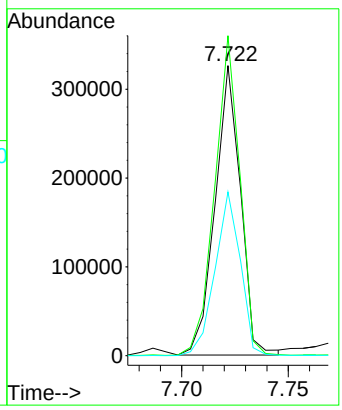




#27
2,4-Dimethylphenol
Concen: 21.592 ng
RT: 7.722 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF134539.D
Acq: 01 Aug 2023 09:24

Tgt Ion:122 Resp: 26984

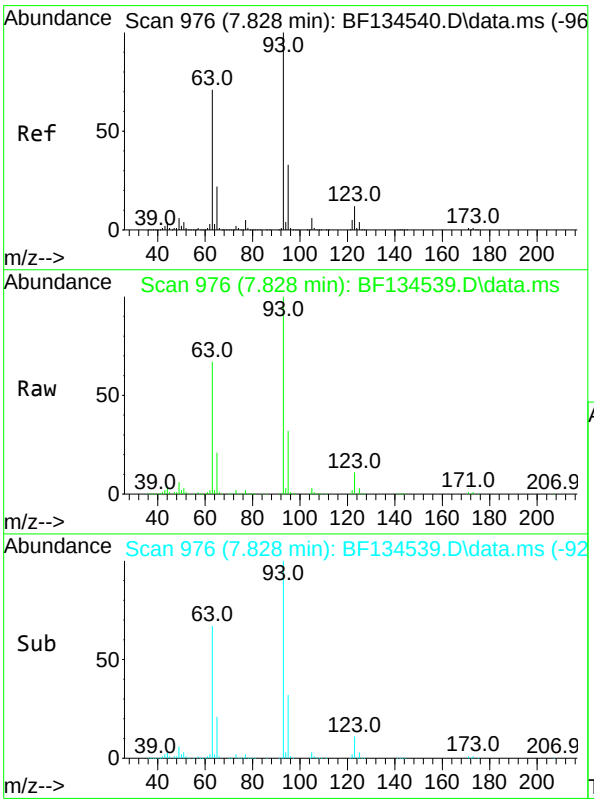
Ion	Ratio	Lower	Upper
122	100		
107	110.3	106.7	160.1
121	56.4	49.0	73.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

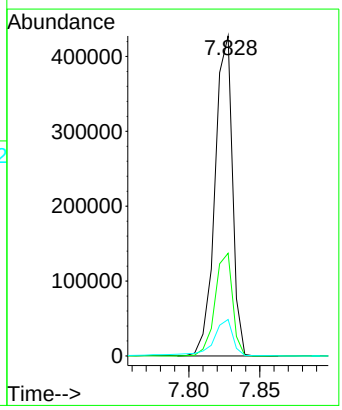
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

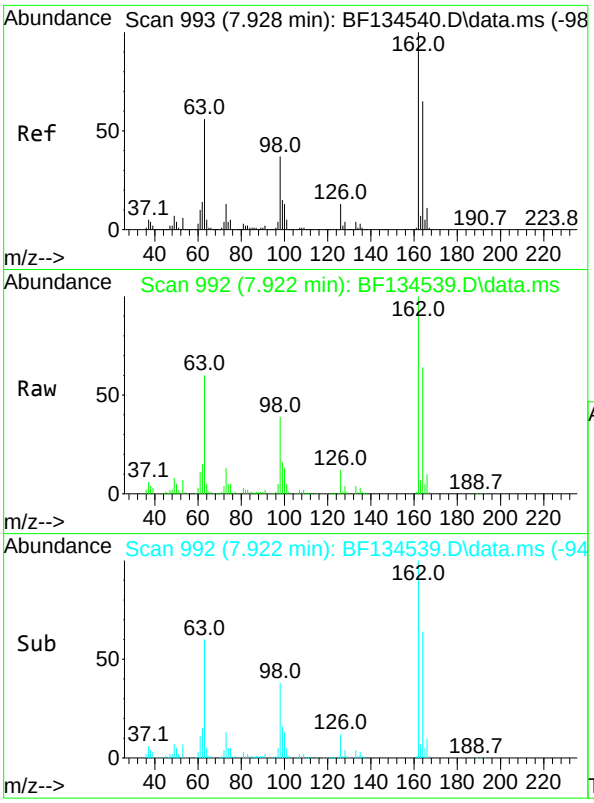


#28
bis(2-Chloroethoxy)methane
Concen: 21.801 ng
RT: 7.828 min Scan# 976
Delta R.T. 0.000 min
Lab File: BF134539.D
Acq: 01 Aug 2023 09:24

Tgt Ion: 93 Resp: 365280

Ion	Ratio	Lower	Upper
93	100		
95	32.1	26.5	39.7
123	11.4	9.6	14.4

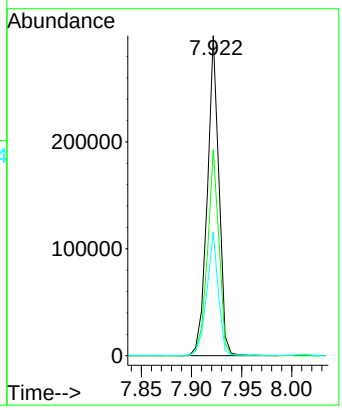




#29
2,4-Dichlorophenol
Concen: 21.377 ng
RT: 7.922 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF134539.D
Acq: 01 Aug 2023 09:24

Tgt Ion:162 Resp: 24247

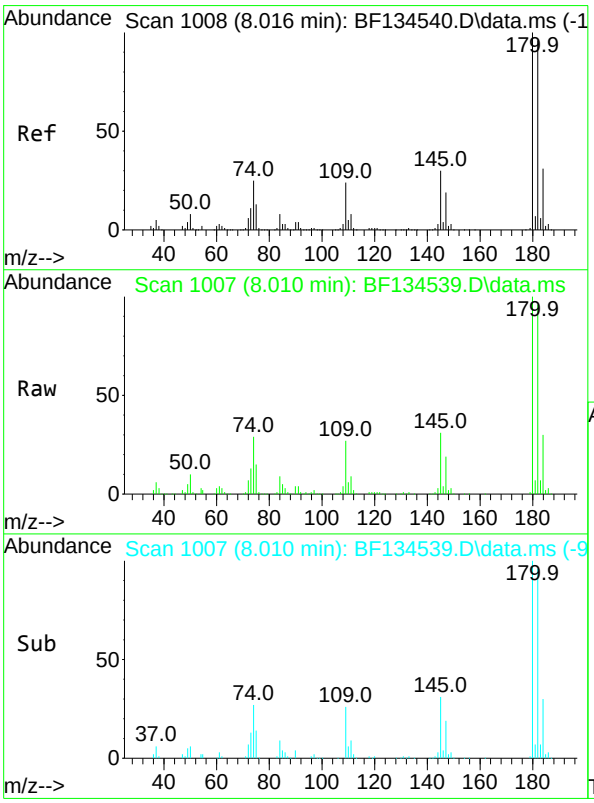
Ion	Ratio	Lower	Upper
162	100		
164	64.4	42.2	82.2
98	38.5	15.5	55.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

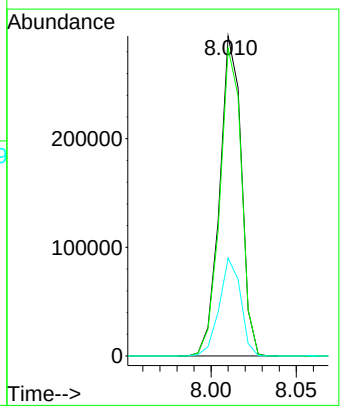
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

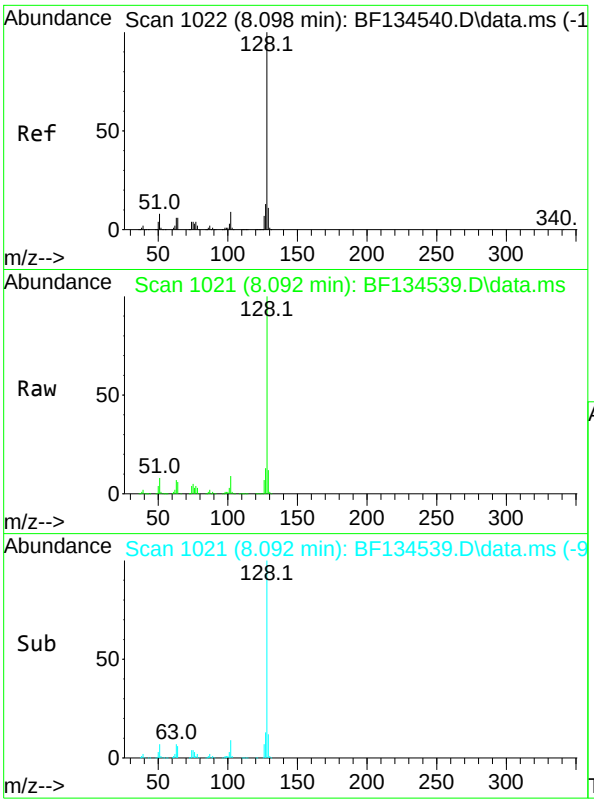


#30
1,2,4-Trichlorobenzene
Concen: 21.526 ng
RT: 8.010 min Scan# 1007
Delta R.T. -0.006 min
Lab File: BF134539.D
Acq: 01 Aug 2023 09:24

Tgt Ion:180 Resp: 260377

Ion	Ratio	Lower	Upper
180	100		
182	96.1	75.0	112.6
145	30.5	25.5	38.3

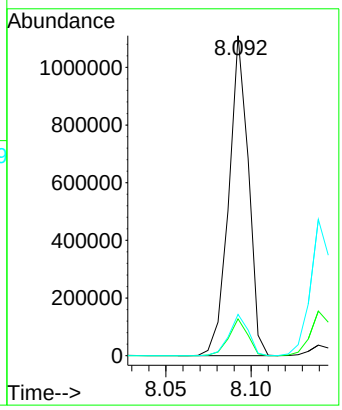




#31
Naphthalene
Concen: 21.924 ng
RT: 8.092 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF134539.D
Acq: 01 Aug 2023 09:24

Tgt Ion:128 Resp: 88424

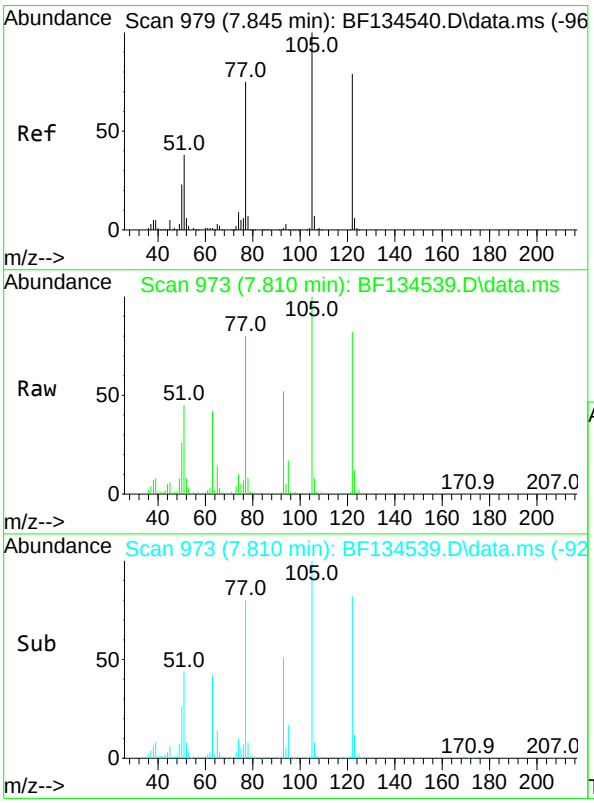
Ion	Ratio	Lower	Upper
128	100		
129	11.5	8.4	12.6
127	12.9	10.7	16.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

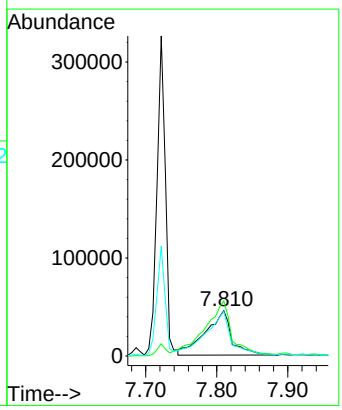
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

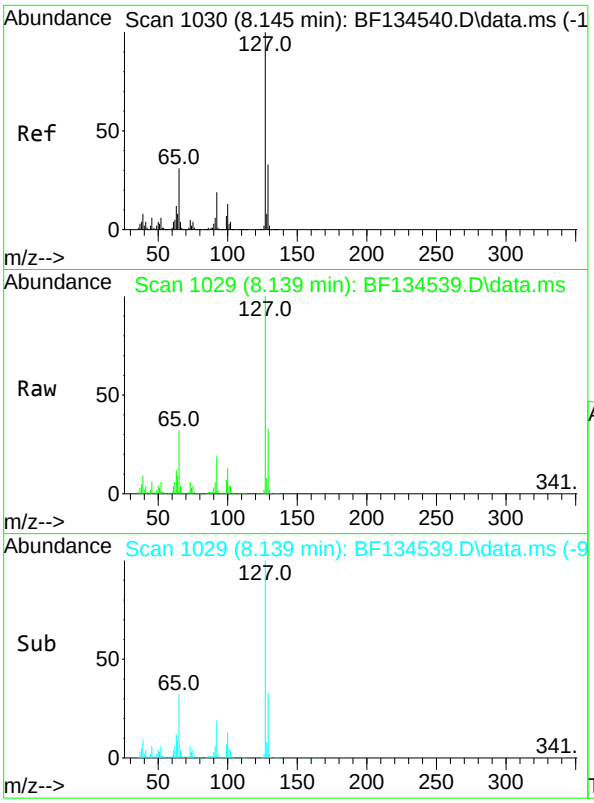


#32
Benzoic acid
Concen: 19.793 ng
RT: 7.810 min Scan# 973
Delta R.T. -0.035 min
Lab File: BF134539.D
Acq: 01 Aug 2023 09:24

Tgt Ion:122 Resp: 116284

Ion	Ratio	Lower	Upper
122	100		
105	121.7	87.5	127.5
77	98.0	71.4	111.4

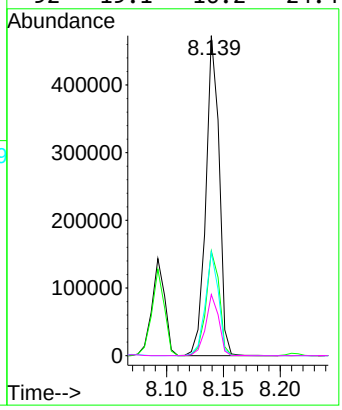




#33
4-Chloroaniline
Concen: 21.405 ng
RT: 8.139 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF134539.D
Acq: 01 Aug 2023 09:24

Tgt Ion:127 Resp: 38467

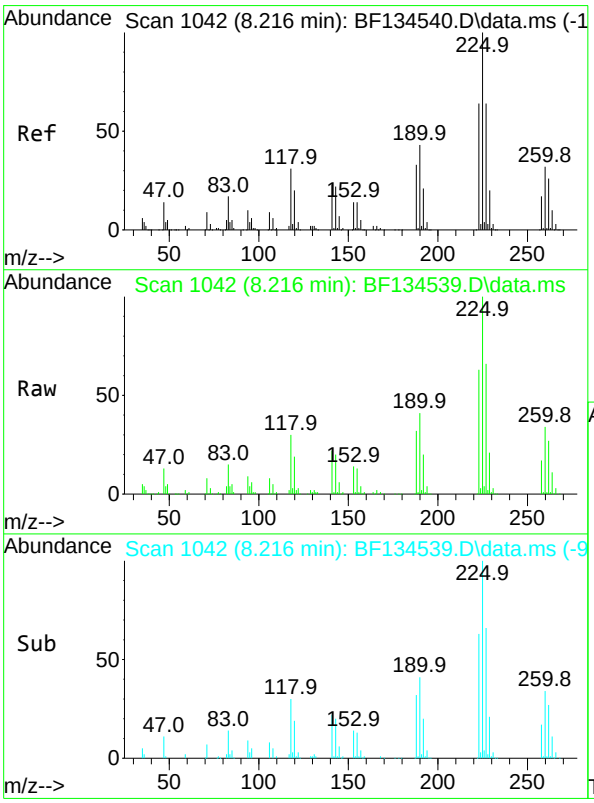
Ion	Ratio	Lower	Upper
127	100		
129	32.7	25.6	38.4
65	32.4	25.4	38.0
92	19.1	16.2	24.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

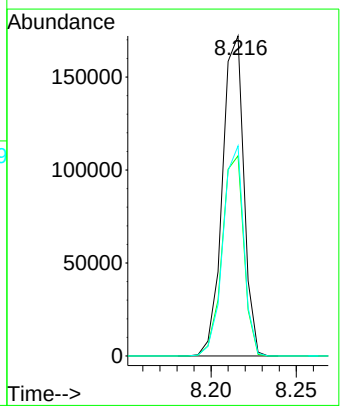
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

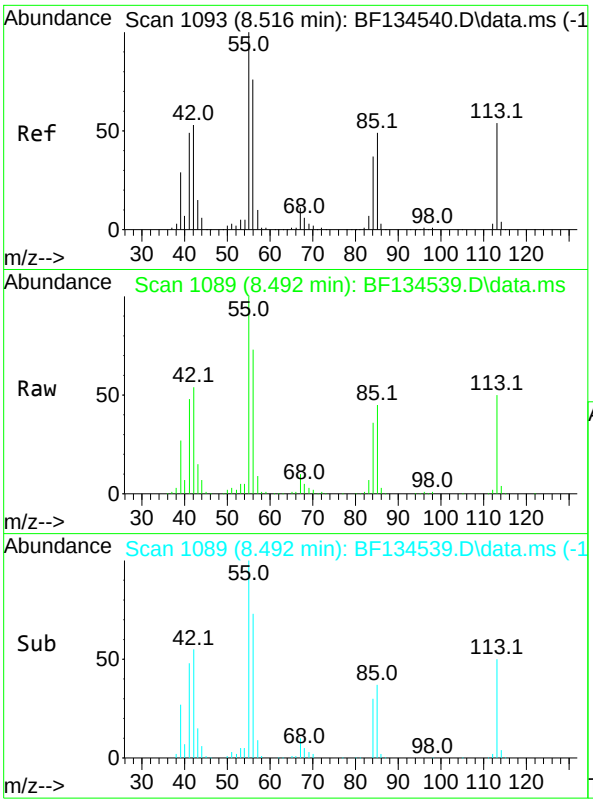


#34
Hexachlorobutadiene
Concen: 21.595 ng
RT: 8.216 min Scan# 1042
Delta R.T. 0.000 min
Lab File: BF134539.D
Acq: 01 Aug 2023 09:24

Tgt Ion:225 Resp: 150669

Ion	Ratio	Lower	Upper
225	100		
223	62.6	48.2	72.4
227	65.7	48.5	72.7

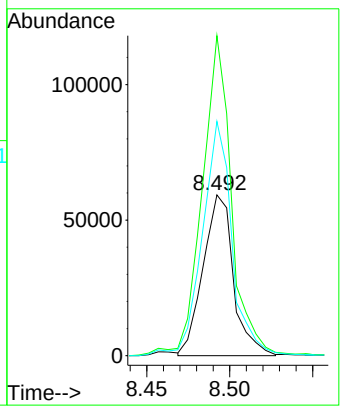




#35
Caprolactam
Concen: 20.640 ng m
RT: 8.492 min Scan# 1
Delta R.T. -0.023 min
Lab File: BF134539.D
Acq: 01 Aug 2023 09:24

Tgt Ion:113 Resp: 7555

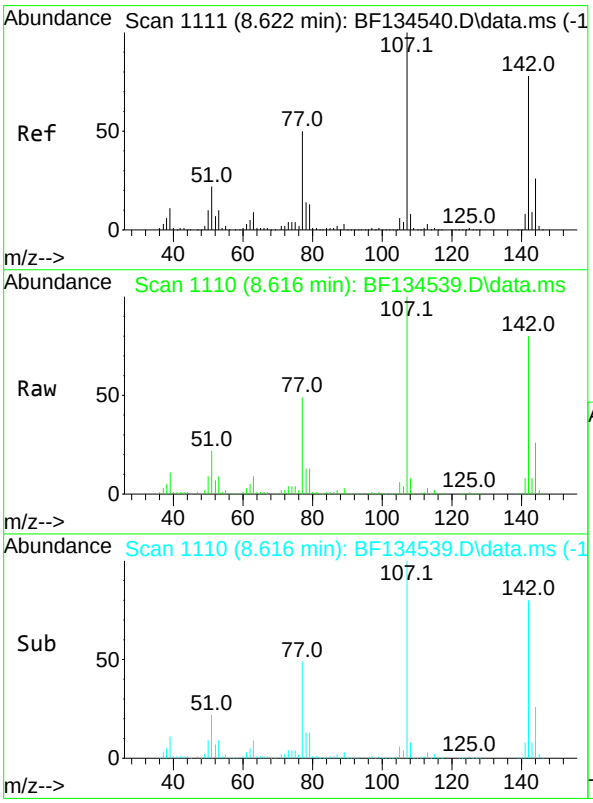
Ion	Ratio	Lower	Upper
113	100		
55	199.0	161.5	201.5
56	145.6	117.8	157.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

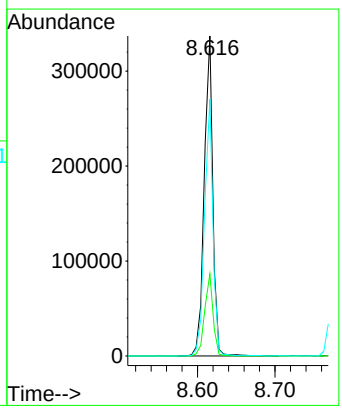
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

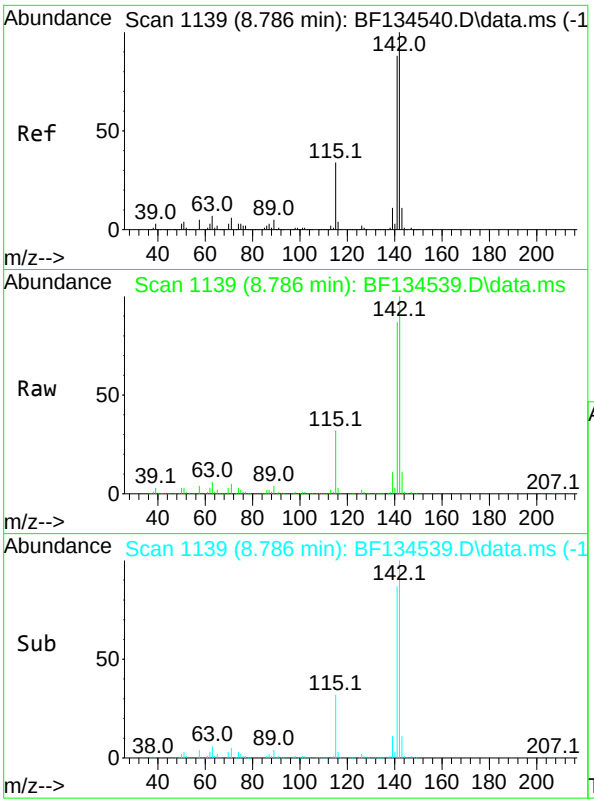


#36
4-Chloro-3-methylphenol
Concen: 21.581 ng
RT: 8.616 min Scan# 1110
Delta R.T. -0.006 min
Lab File: BF134539.D
Acq: 01 Aug 2023 09:24

Tgt Ion:107 Resp: 259240

Ion	Ratio	Lower	Upper
107	100		
144	25.7	19.6	29.4
142	80.2	57.7	86.5

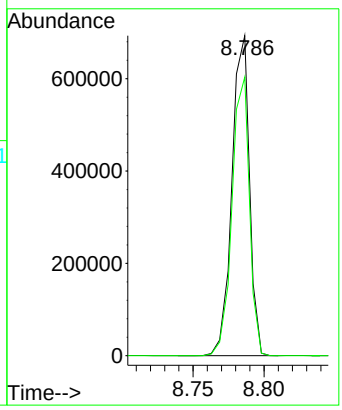




#37
2-Methylnaphthalene
Concen: 22.298 ng
RT: 8.786 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134539.D
Acq: 01 Aug 2023 09:24

Tgt Ion:142 Resp: 59611

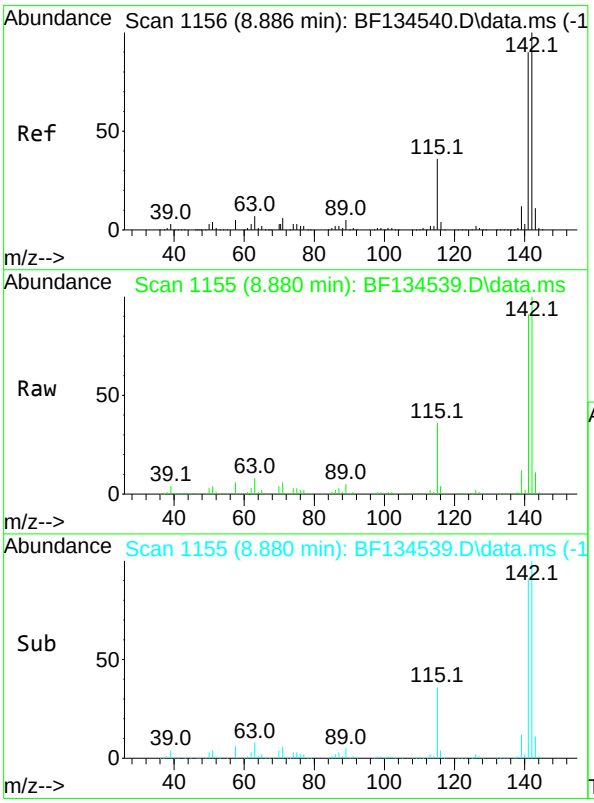
Ion	Ratio	Lower	Upper
142	100		
141	87.0	70.8	106.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

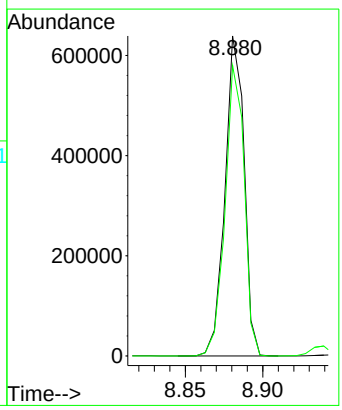
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

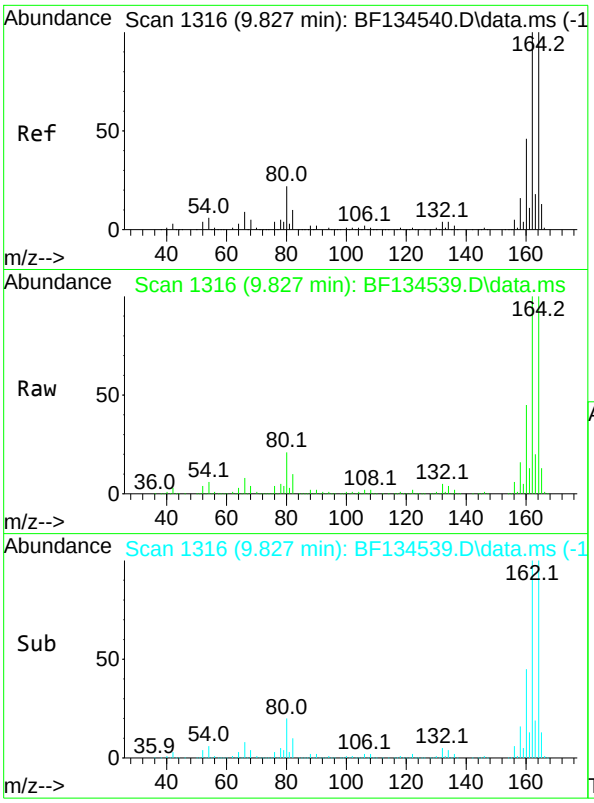


#38
1-Methylnaphthalene
Concen: 22.075 ng
RT: 8.880 min Scan# 1155
Delta R.T. -0.006 min
Lab File: BF134539.D
Acq: 01 Aug 2023 09:24

Tgt Ion:142 Resp: 548790

Ion	Ratio	Lower	Upper
142	100		
141	90.8	71.4	107.2

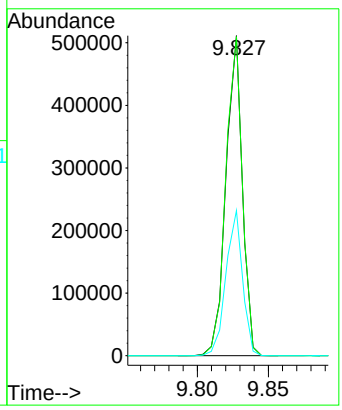




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.827 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134539.D
Acq: 01 Aug 2023 09:24

Tgt Ion:164 Resp: 40934

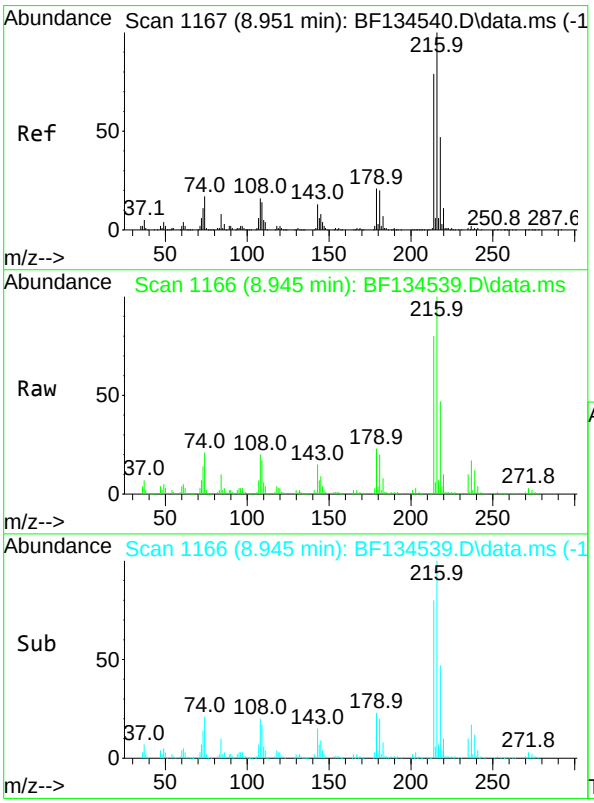
Ion	Ratio	Lower	Upper
164	100		
162	99.7	82.6	123.8
160	45.4	37.2	55.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

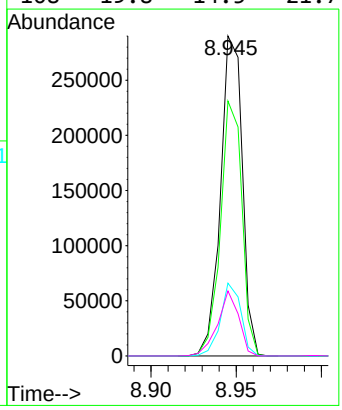
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

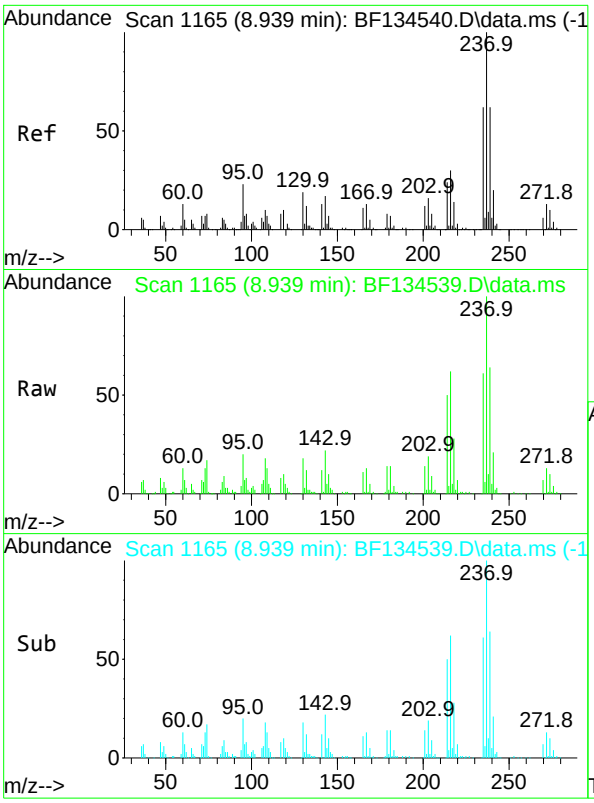


#40
1,2,4,5-Tetrachlorobenzene
Concen: 21.681 ng
RT: 8.945 min Scan# 1166
Delta R.T. -0.006 min
Lab File: BF134539.D
Acq: 01 Aug 2023 09:24

Tgt Ion:216 Resp: 258076

Ion	Ratio	Lower	Upper
216	100		
214	78.3	62.3	93.5
179	21.4	17.4	26.0
108	19.8	14.5	21.7

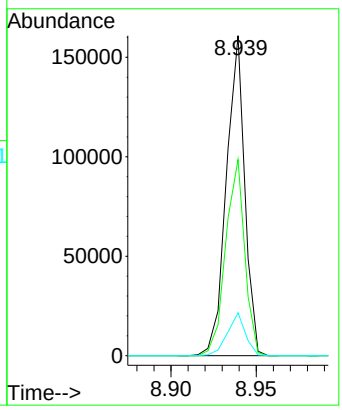




#41
Hexachlorocyclopentadiene
Concen: 20.922 ng
RT: 8.939 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF134539.D
Acq: 01 Aug 2023 09:24

Tgt Ion:237 Resp: 12110

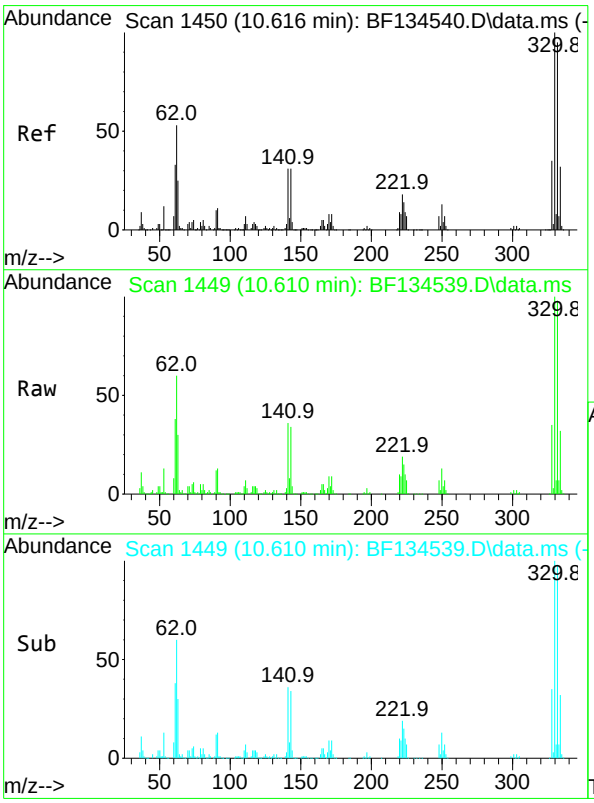
Ion	Ratio	Lower	Upper
237	100		
235	61.3	37.0	77.0
272	13.4	0.0	32.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

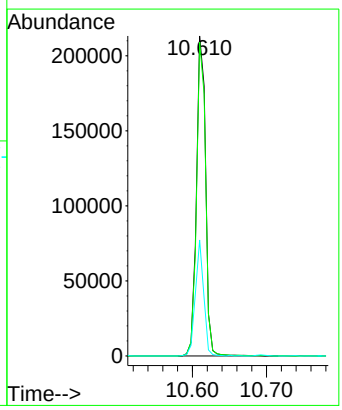
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

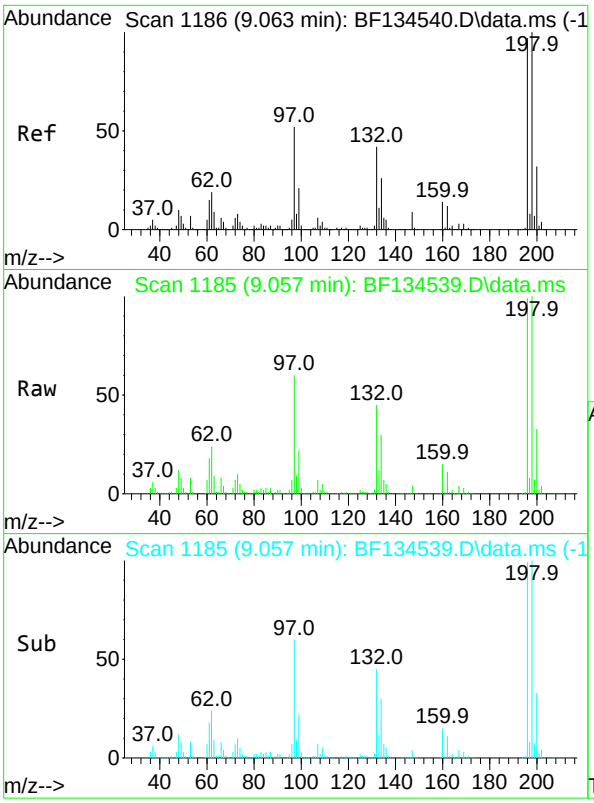


#42
2,4,6-Tribromophenol
Concen: 43.464 ng
RT: 10.610 min Scan# 1449
Delta R.T. -0.006 min
Lab File: BF134539.D
Acq: 01 Aug 2023 09:24

Tgt Ion:330 Resp: 181372

Ion	Ratio	Lower	Upper
330	100		
332	97.0	78.8	118.2
141	33.3	25.4	38.2

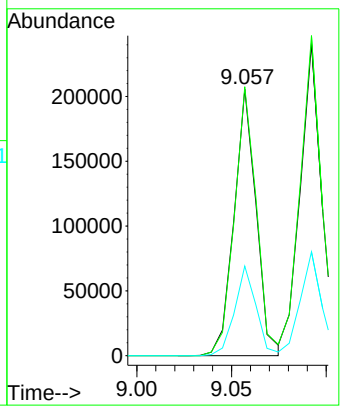




#43
2,4,6-Trichlorophenol
Concen: 21.494 ng
RT: 9.057 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF134539.D
Acq: 01 Aug 2023 09:24

Tgt Ion:196 Resp: 16744

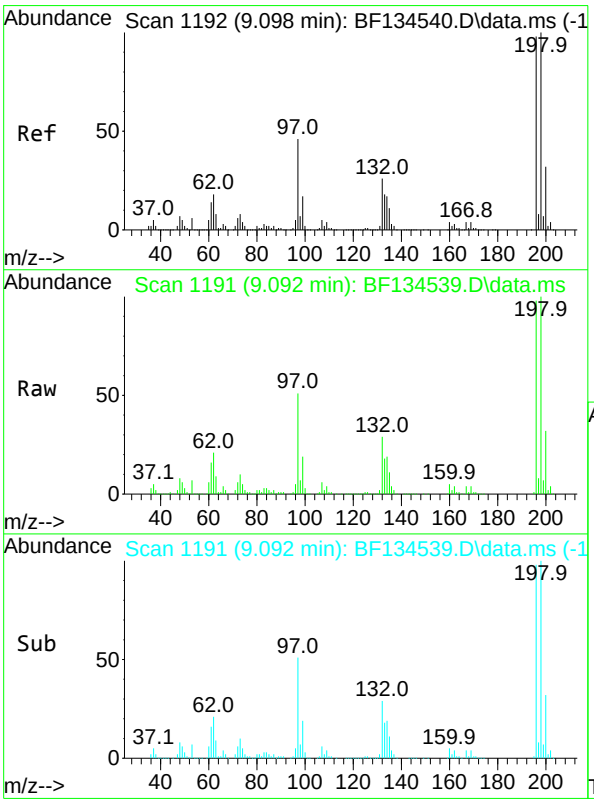
Ion	Ratio	Lower	Upper
196	100		
198	100.9	77.4	116.2
200	33.6	25.4	38.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

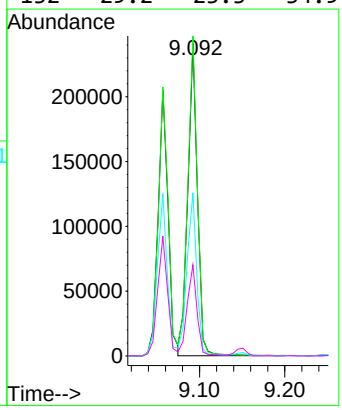
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

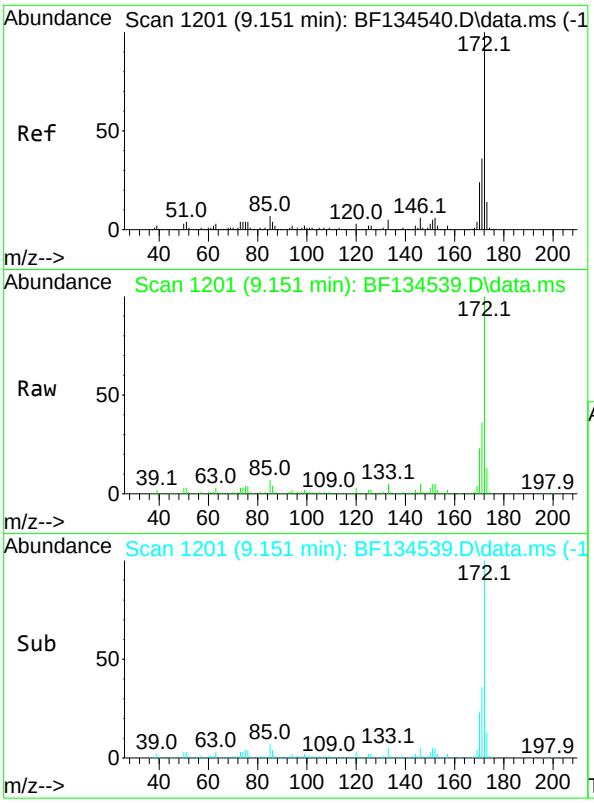


#44
2,4,5-Trichlorophenol
Concen: 21.334 ng
RT: 9.092 min Scan# 1191
Delta R.T. -0.006 min
Lab File: BF134539.D
Acq: 01 Aug 2023 09:24

Tgt Ion:196 Resp: 189956

Ion	Ratio	Lower	Upper
196	100		
198	102.4	73.0	109.4
97	52.2	40.8	61.2
132	29.2	23.3	34.9

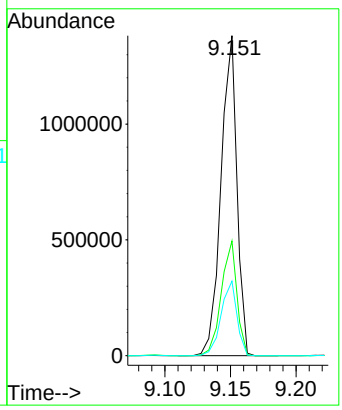




#45
2-Fluorobiphenyl
Concen: 47.170 ng
RT: 9.151 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134539.D
Acq: 01 Aug 2023 09:24

Tgt Ion:172 Resp: 116129

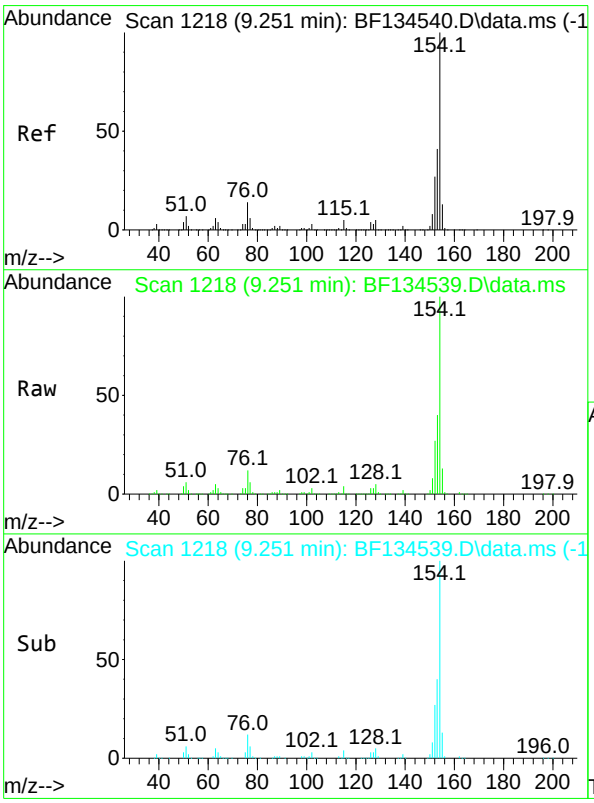
Ion	Ratio	Lower	Upper
172	100		
171	35.8	28.8	43.2
170	23.3	18.7	28.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

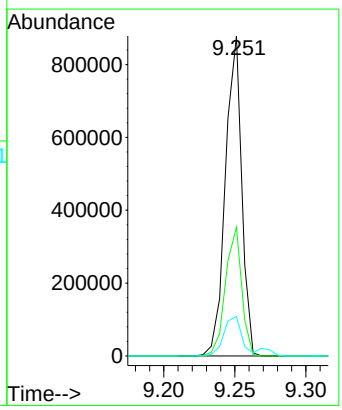
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

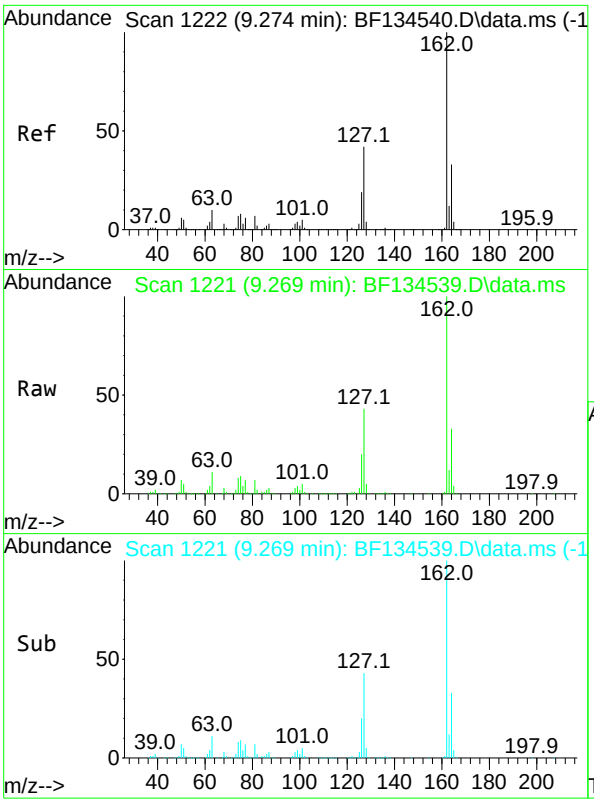


#46
1,1'-Biphenyl
Concen: 21.930 ng
RT: 9.251 min Scan# 1218
Delta R.T. 0.000 min
Lab File: BF134539.D
Acq: 01 Aug 2023 09:24

Tgt Ion:154 Resp: 698066

Ion	Ratio	Lower	Upper
154	100		
153	40.3	20.8	60.8
76	12.4	0.0	30.2

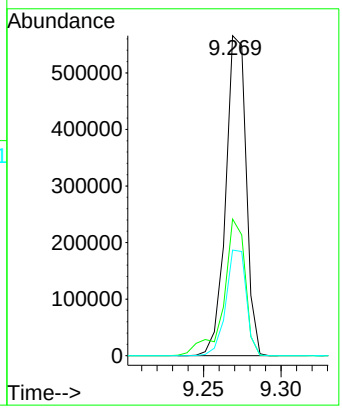




#47
2-Chloronaphthalene
Concen: 21.733 ng
RT: 9.269 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF134539.D
Acq: 01 Aug 2023 09:24

Tgt Ion:162 Resp: 51837

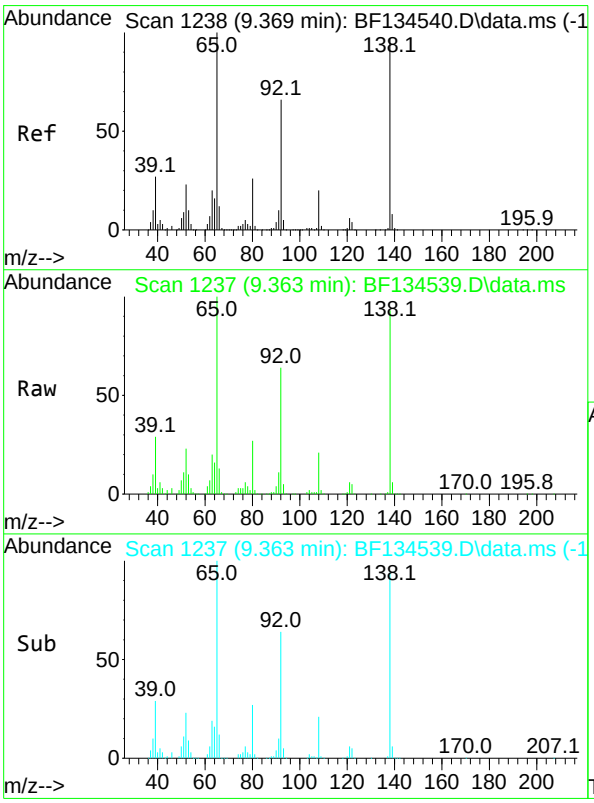
Ion	Ratio	Lower	Upper
162	100		
127	42.7	34.0	51.0
164	33.0	25.7	38.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

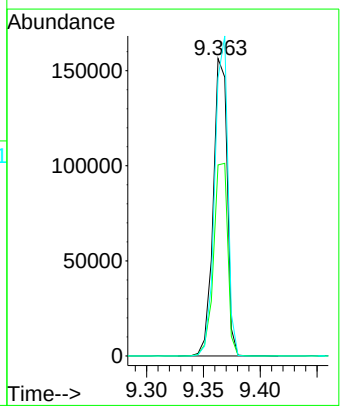
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

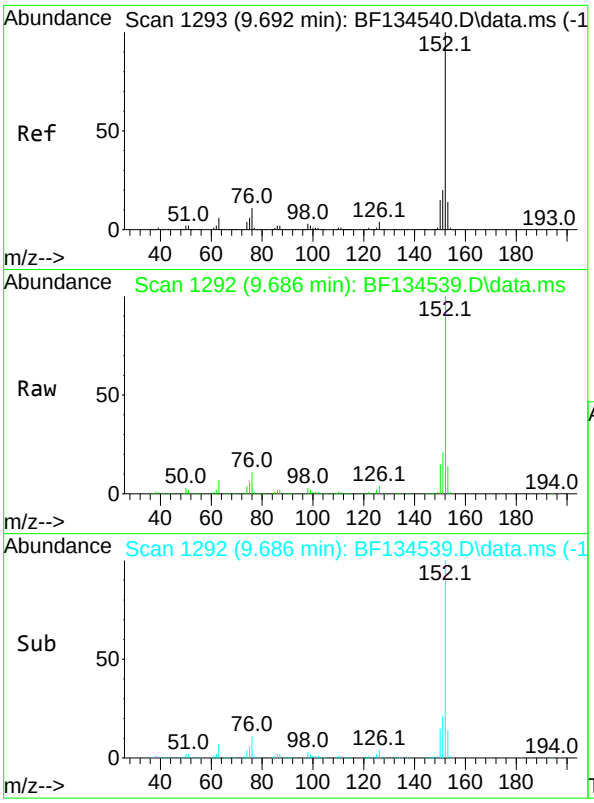


#48
2-Nitroaniline
Concen: 19.986 ng
RT: 9.363 min Scan# 1237
Delta R.T. -0.006 min
Lab File: BF134539.D
Acq: 01 Aug 2023 09:24

Tgt Ion: 65 Resp: 133908

Ion	Ratio	Lower	Upper
65	100		
92	64.2	50.7	76.1
138	93.5	78.2	117.4

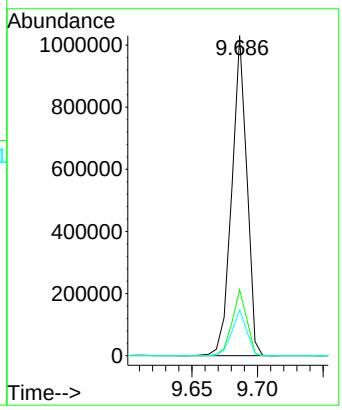




#49
Acenaphthylene
Concen: 21.926 ng
RT: 9.686 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF134539.D
Acq: 01 Aug 2023 09:24

Tgt Ion:152 Resp: 82205

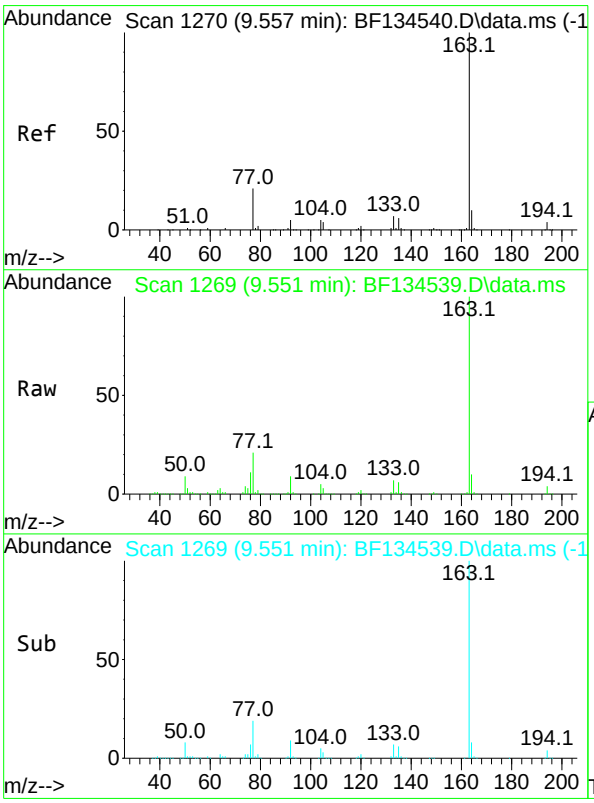
Ion	Ratio	Lower	Upper
152	100		
151	20.6	16.4	24.6
153	14.3	10.9	16.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

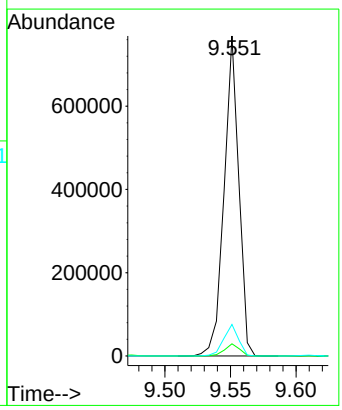
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

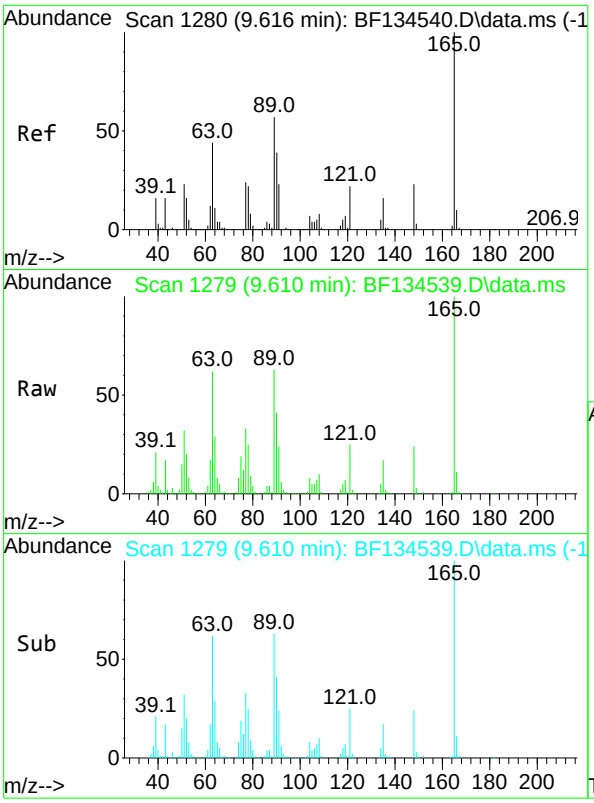


#50
Dimethylphthalate
Concen: 21.398 ng
RT: 9.551 min Scan# 1269
Delta R.T. -0.006 min
Lab File: BF134539.D
Acq: 01 Aug 2023 09:24

Tgt Ion:163 Resp: 596997

Ion	Ratio	Lower	Upper
163	100		
194	3.8	3.3	4.9
164	9.8	7.5	11.3

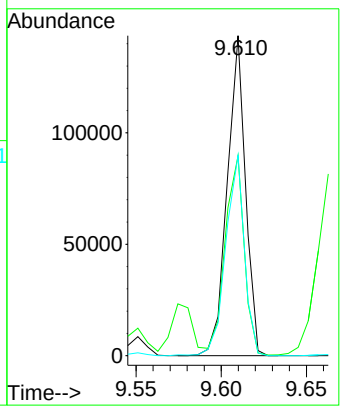




#51
2,6-Dinitrotoluene
Concen: 20.256 ng
RT: 9.610 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF134539.D
Acq: 01 Aug 2023 09:24

Tgt Ion:165 Resp: 10709

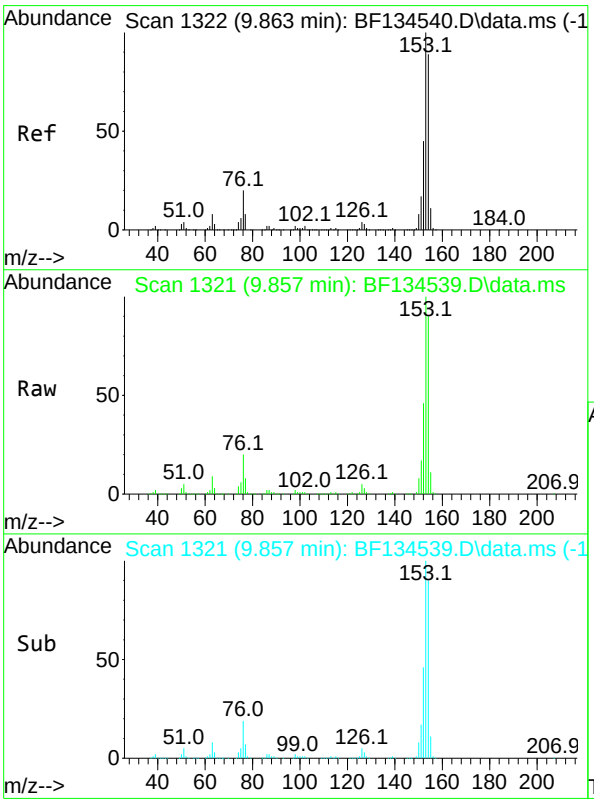
Ion	Ratio	Lower	Upper
165	100		
63	62.4	57.8	86.6
89	62.6	51.8	77.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

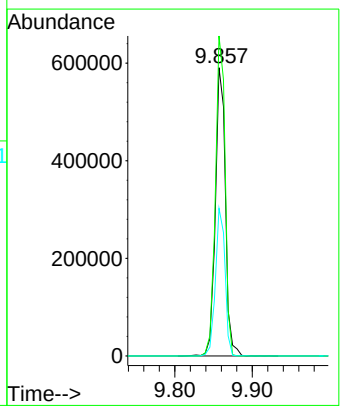
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

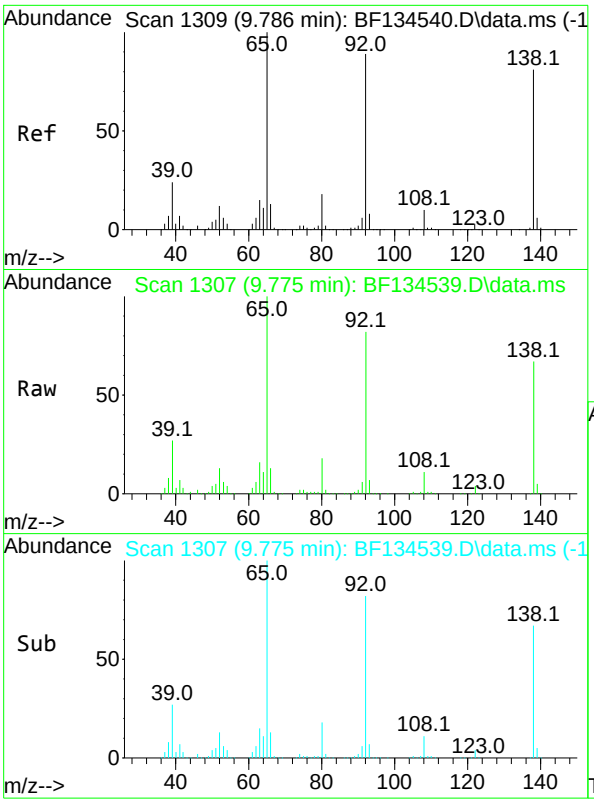


#52
Acenaphthene
Concen: 21.806 ng
RT: 9.857 min Scan# 1321
Delta R.T. -0.006 min
Lab File: BF134539.D
Acq: 01 Aug 2023 09:24

Tgt Ion:154 Resp: 529808

Ion	Ratio	Lower	Upper
154	100		
153	111.0	90.0	135.0
152	51.2	42.4	63.6





#53
3-Nitroaniline
Concen: 20.851 ng
RT: 9.775 min Scan# 1
Delta R.T. -0.011 min
Lab File: BF134539.D
Acq: 01 Aug 2023 09:24

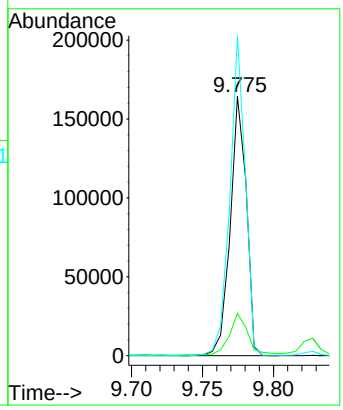
Tgt Ion:138 Resp: 12966

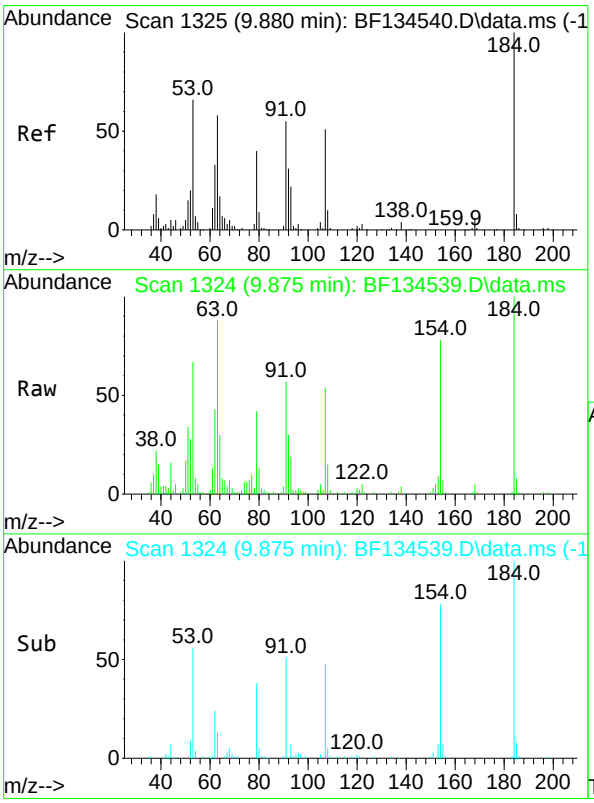
Ion	Ratio	Lower	Upper
138	100		
108	16.4	9.3	13.9#
92	123.5	86.6	129.8

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

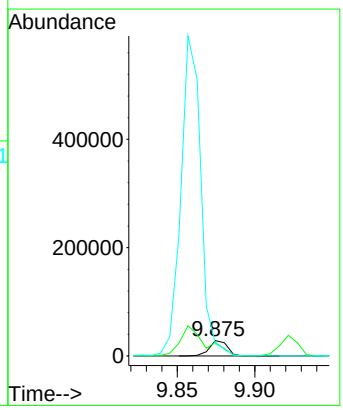


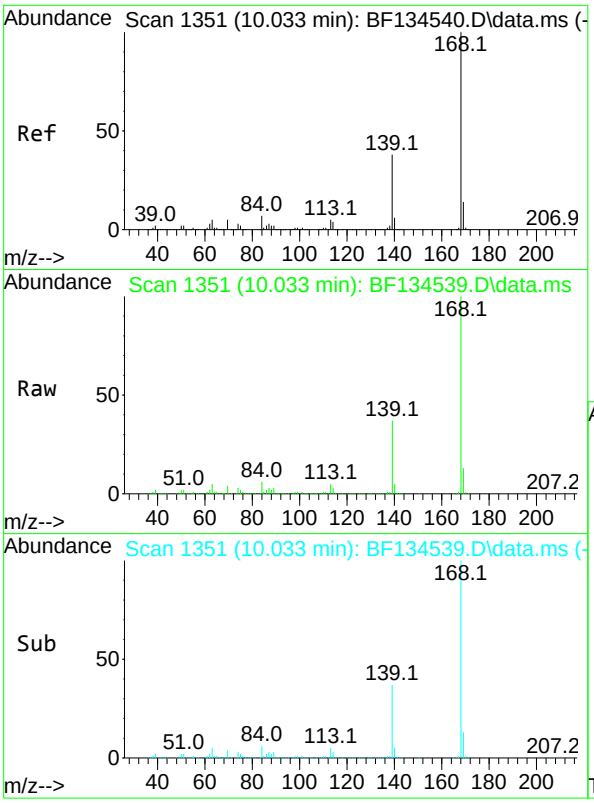


#54
2,4-Dinitrophenol
Concen: 19.302 ng
RT: 9.875 min Scan# 1324
Delta R.T. -0.005 min
Lab File: BF134539.D
Acq: 01 Aug 2023 09:24

Tgt Ion:184 Resp: 22881

Ion	Ratio	Lower	Upper
184	100		
63	88.4	57.1	85.7#
154	78.0	59.1	88.7

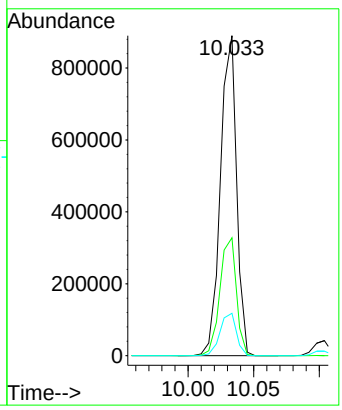




#55
Dibenzofuran
Concen: 21.908 ng
RT: 10.033 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134539.D
Acq: 01 Aug 2023 09:24

Tgt Ion:168 Resp: 75775

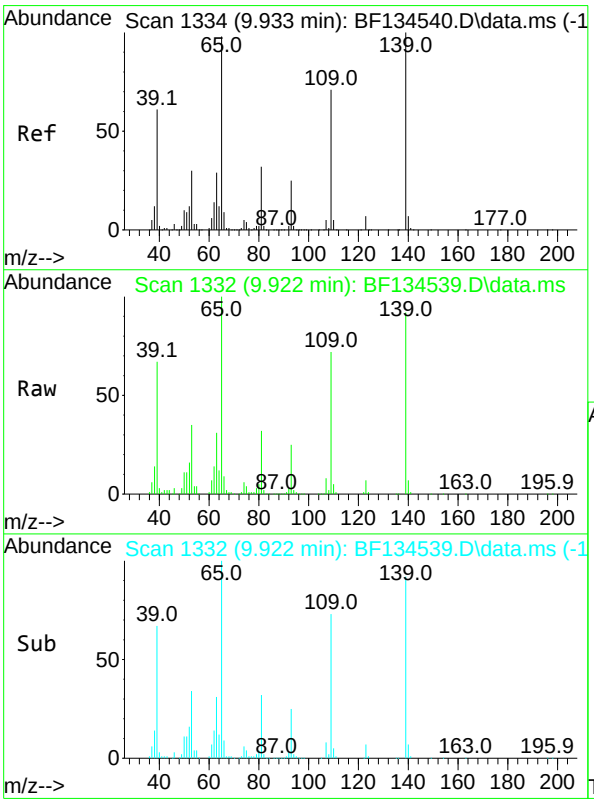
Ion	Ratio	Lower	Upper
168	100		
139	36.9	33.4	50.2
169	13.2	10.6	15.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

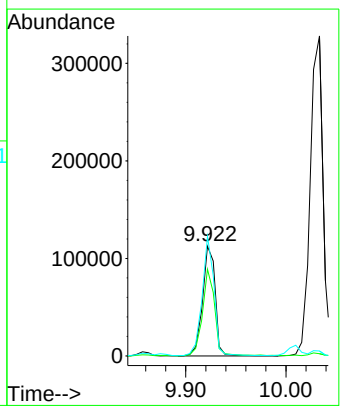
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

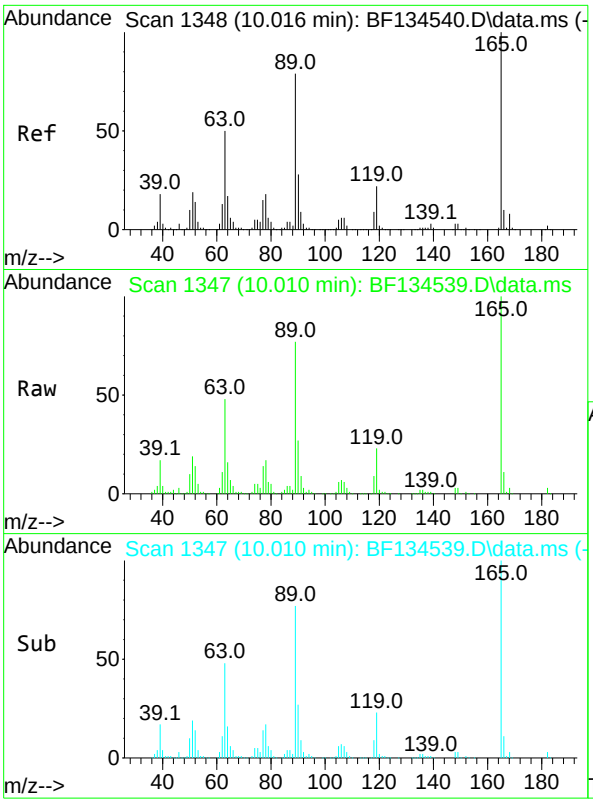


#56
4-Nitrophenol
Concen: 19.625 ng
RT: 9.922 min Scan# 1332
Delta R.T. -0.011 min
Lab File: BF134539.D
Acq: 01 Aug 2023 09:24

Tgt Ion:139 Resp: 99812

Ion	Ratio	Lower	Upper
139	100		
109	79.0	76.9	116.9
65	109.0	98.5	138.5

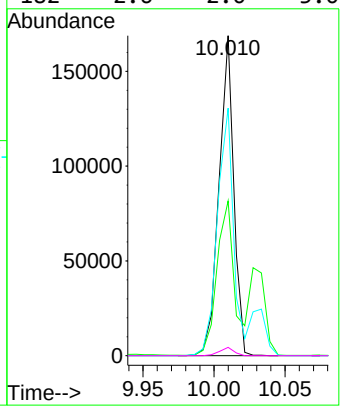




#57
2,4-Dinitrotoluene
Concen: 19.481 ng
RT: 10.010 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF134539.D
Acq: 01 Aug 2023 09:24

Tgt Ion:165 Resp: 12207

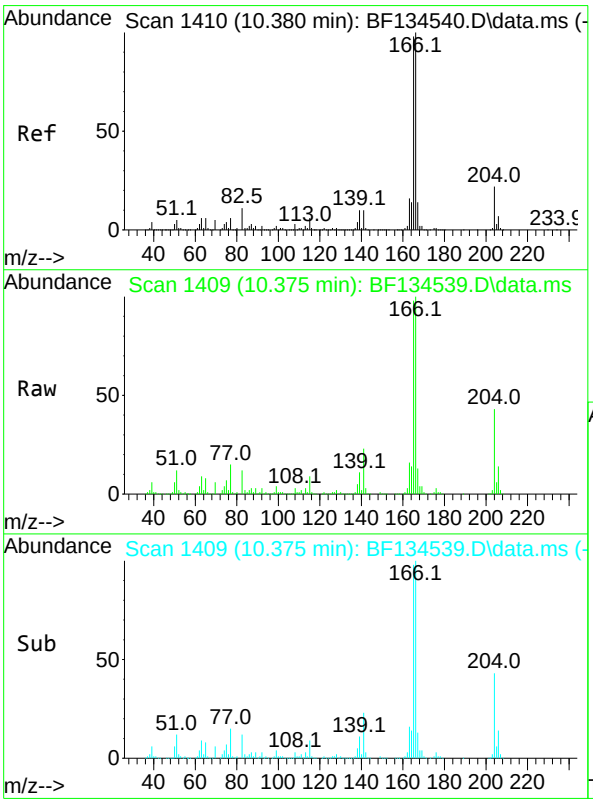
Ion	Ratio	Lower	Upper
165	100		
63	48.3	48.9	73.3#
89	77.3	61.7	92.5
182	2.6	2.0	3.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

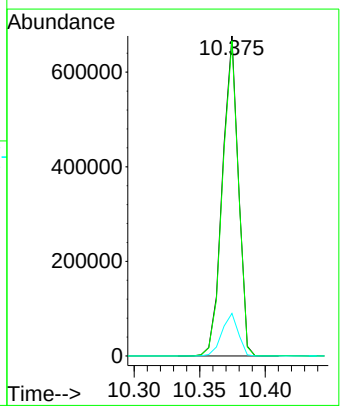
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

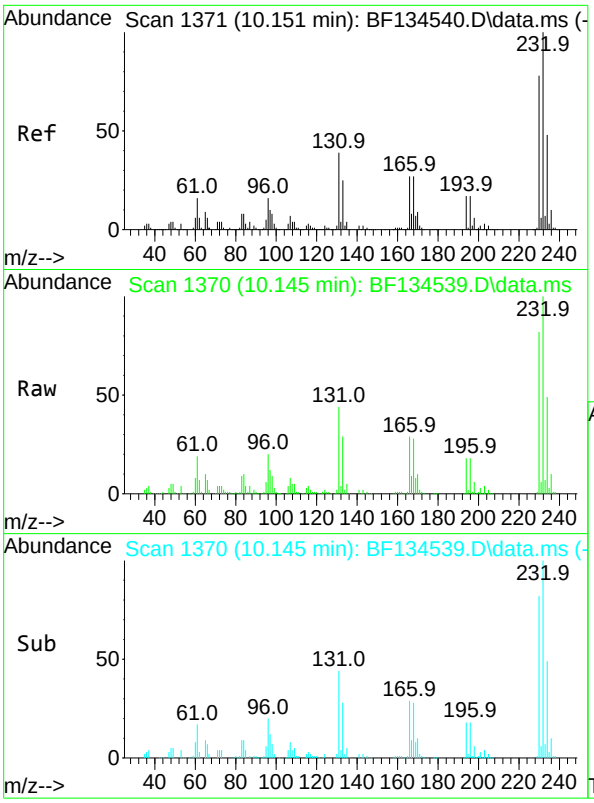


#58
Fluorene
Concen: 22.584 ng
RT: 10.375 min Scan# 1409
Delta R.T. -0.005 min
Lab File: BF134539.D
Acq: 01 Aug 2023 09:24

Tgt Ion:166 Resp: 568956

Ion	Ratio	Lower	Upper
166	100		
165	98.5	74.5	111.7
167	13.3	10.6	16.0

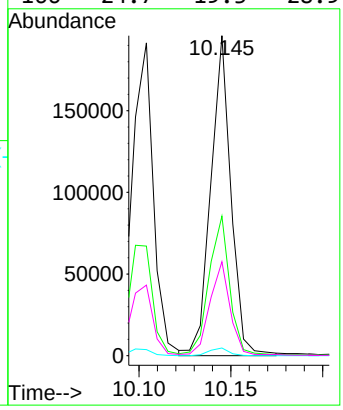




#59
2,3,4,6-Tetrachlorophenol
Concen: 21.215 ng m
RT: 10.145 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF134539.D
Acq: 01 Aug 2023 09:24

Tgt Ion:232 Resp: 14969

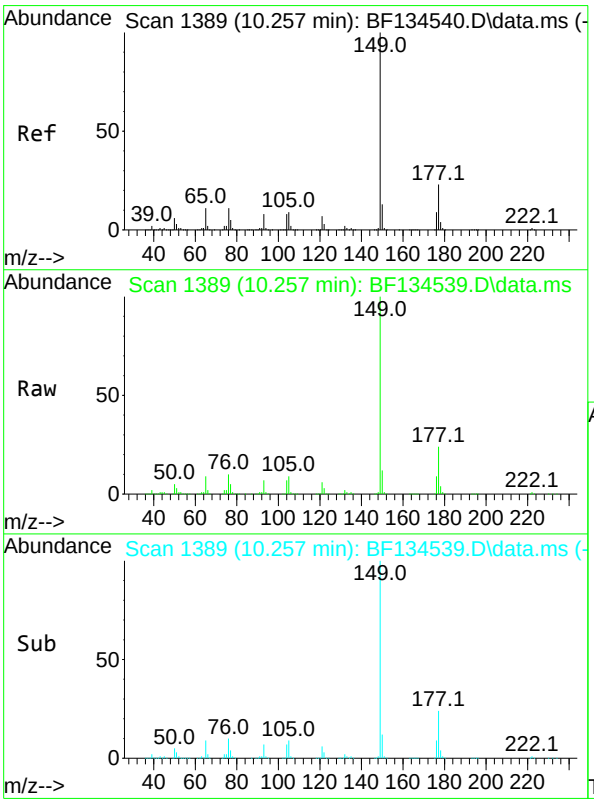
Ion	Ratio	Lower	Upper
232	100		
131	40.5	33.4	50.0
130	2.3	1.8	2.6
166	24.7	19.3	28.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

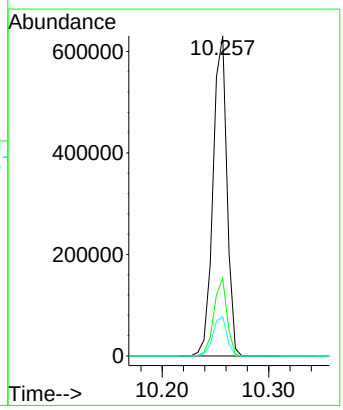
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

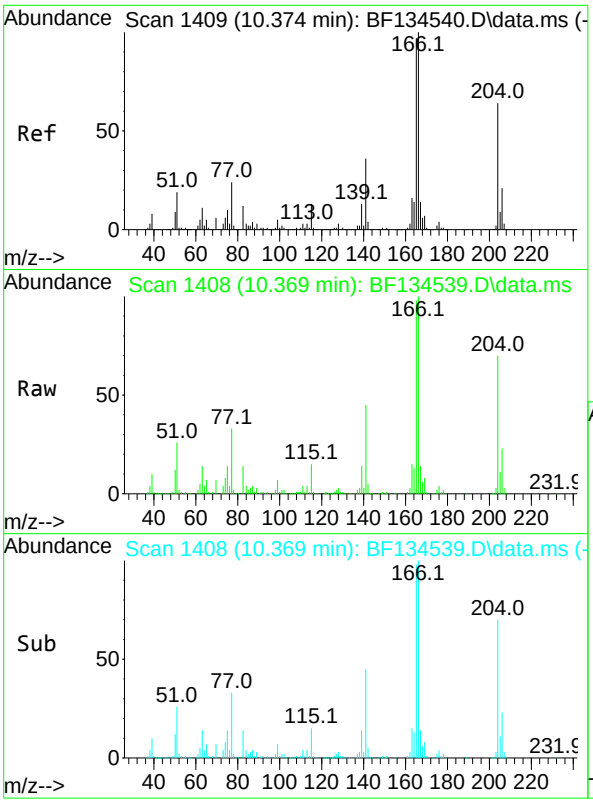


#60
Diethylphthalate
Concen: 21.604 ng
RT: 10.257 min Scan# 1389
Delta R.T. 0.000 min
Lab File: BF134539.D
Acq: 01 Aug 2023 09:24

Tgt Ion:149 Resp: 571313

Ion	Ratio	Lower	Upper
149	100		
177	24.2	17.0	25.4
150	12.3	9.9	14.9





#61
4-Chlorophenyl-phenylether
Concen: 22.416 ng
RT: 10.369 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF134539.D
Acq: 01 Aug 2023 09:24

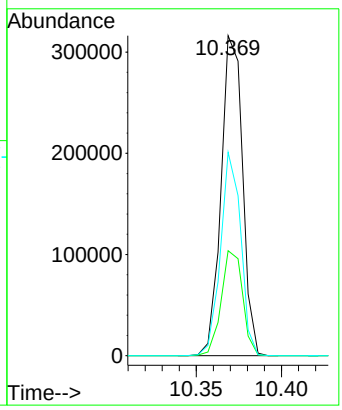
Instrument :
BNA_F
ClientSampleId :
SSTDICC020

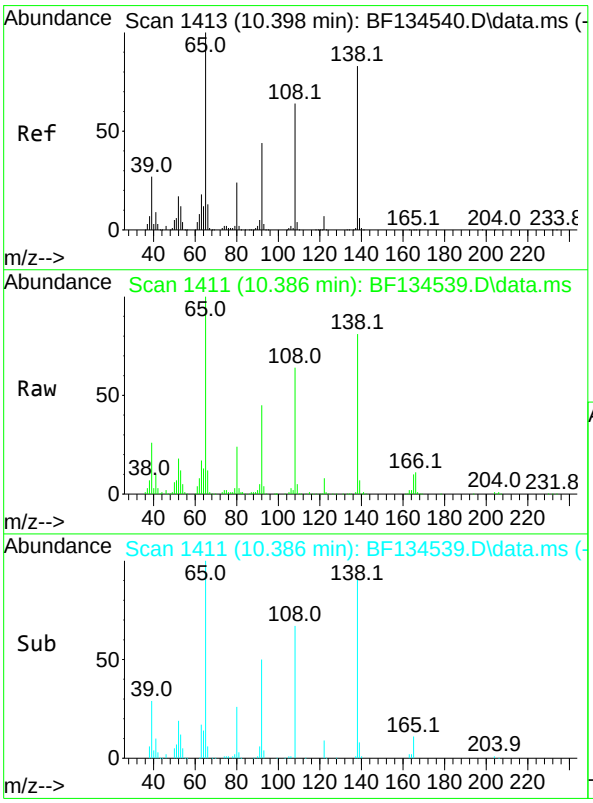
Tgt Ion:204 Resp: 27758

Ion	Ratio	Lower	Upper
204	100		
206	32.8	26.0	39.0
141	63.5	52.2	78.4

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

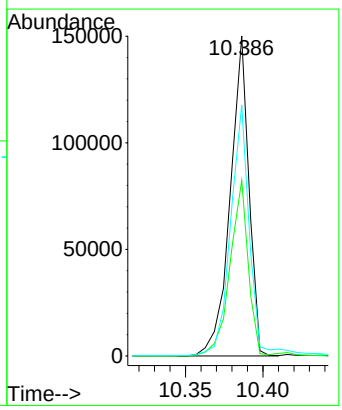


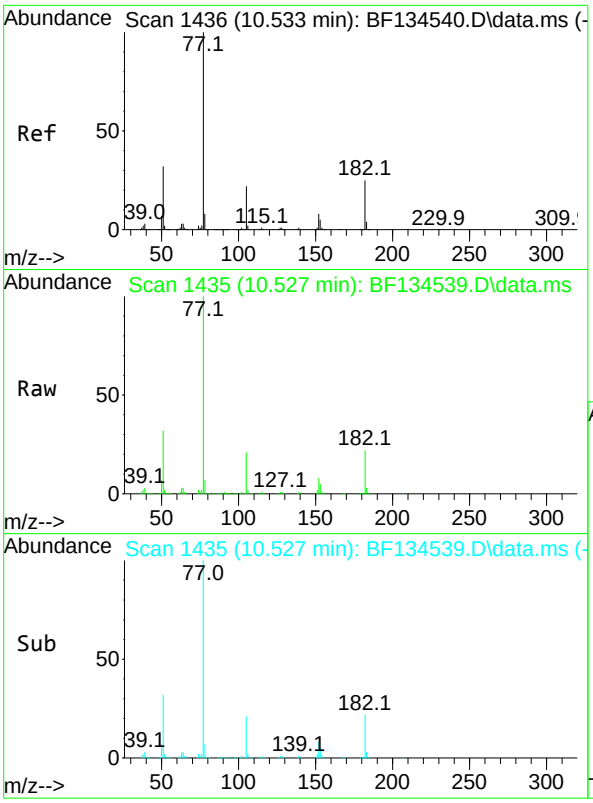


#62
4-Nitroaniline
Concen: 20.618 ng
RT: 10.386 min Scan# 1411
Delta R.T. -0.012 min
Lab File: BF134539.D
Acq: 01 Aug 2023 09:24

Tgt Ion:138 Resp: 125673

Ion	Ratio	Lower	Upper
138	100		
92	54.9	27.0	67.0
108	78.4	70.4	110.4

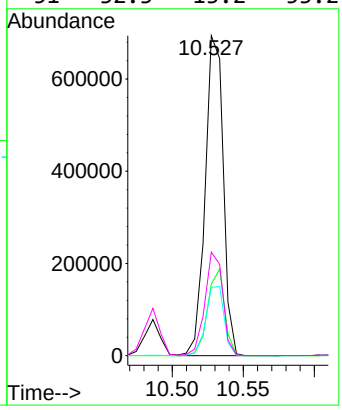




#63
Azobenzene
Concen: 21.643 ng
RT: 10.527 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF134539.D
Acq: 01 Aug 2023 09:24

Tgt Ion: 77 Resp: 61495

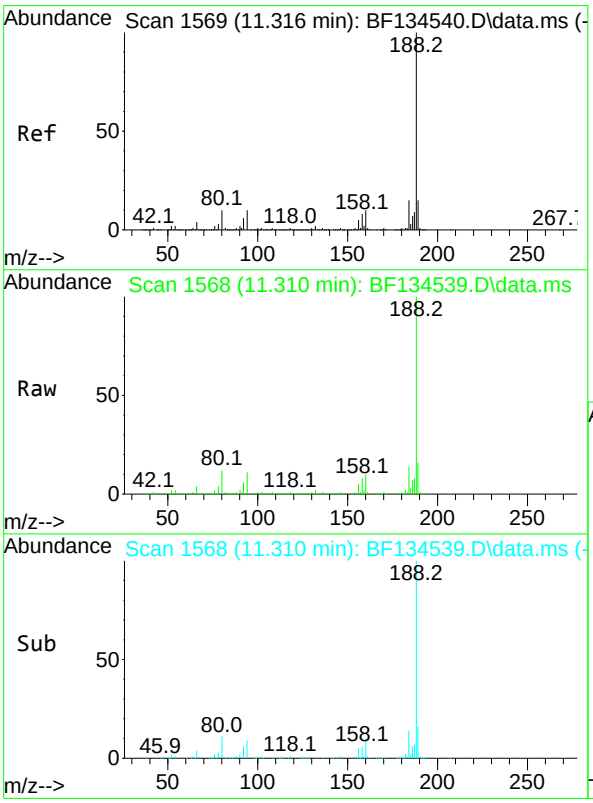
Ion	Ratio	Lower	Upper
77	100		
182	22.4	7.5	47.5
105	21.3	1.9	41.9
51	32.3	13.2	53.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

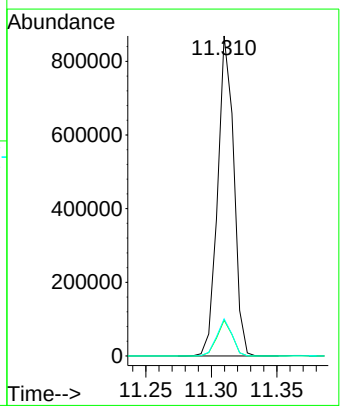
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

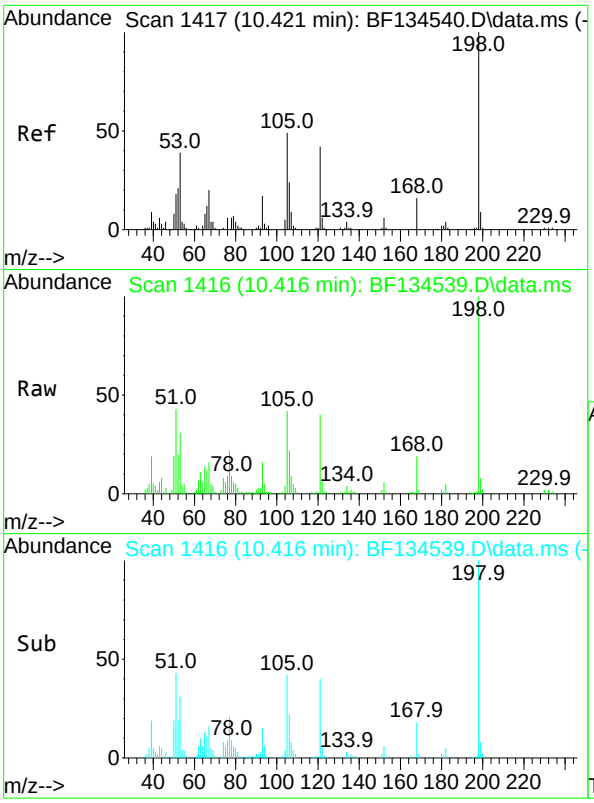


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.310 min Scan# 1568
Delta R.T. -0.006 min
Lab File: BF134539.D
Acq: 01 Aug 2023 09:24

Tgt Ion:188 Resp: 740778

Ion	Ratio	Lower	Upper
188	100		
94	11.2	5.1	7.7#
80	11.6	6.6	9.8#

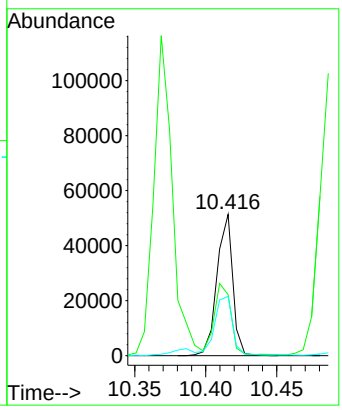




#65
4,6-Dinitro-2-methylphenol
Concen: 19.547 ng
RT: 10.416 min Scan# 14
Delta R.T. -0.005 min
Lab File: BF134539.D
Acq: 01 Aug 2023 09:24

Tgt Ion:198 Resp: 3966

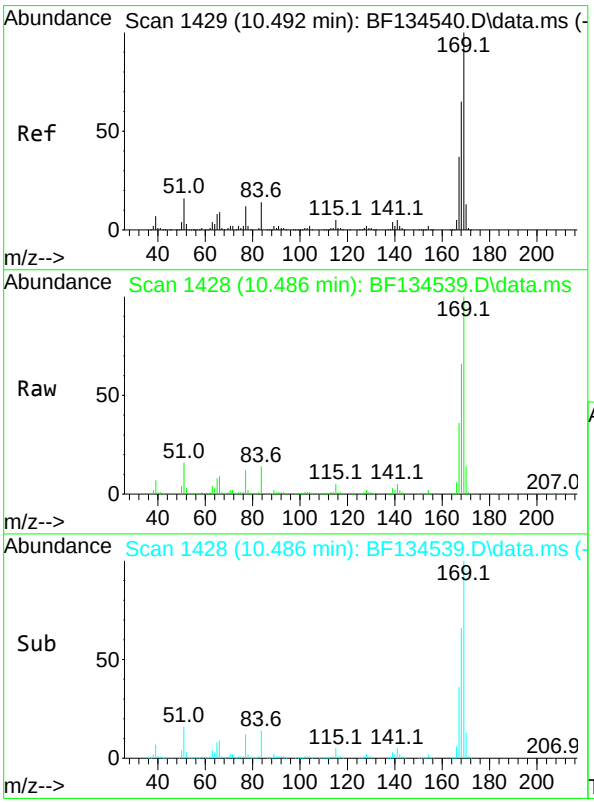
Ion	Ratio	Lower	Upper
198	100		
51	43.1	38.6	78.6
105	41.8	27.9	67.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

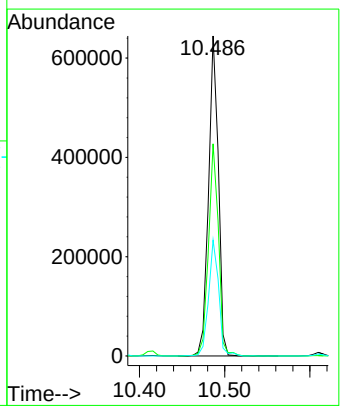
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

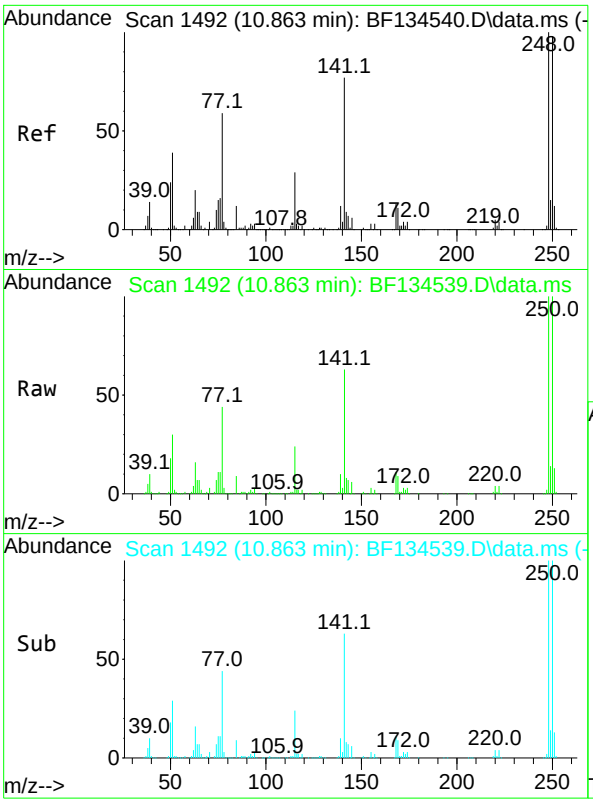


#66
n-Nitrosodiphenylamine
Concen: 21.829 ng
RT: 10.486 min Scan# 1428
Delta R.T. -0.006 min
Lab File: BF134539.D
Acq: 01 Aug 2023 09:24

Tgt Ion:169 Resp: 514687

Ion	Ratio	Lower	Upper
169	100		
168	66.3	52.6	78.8
167	36.2	29.8	44.8

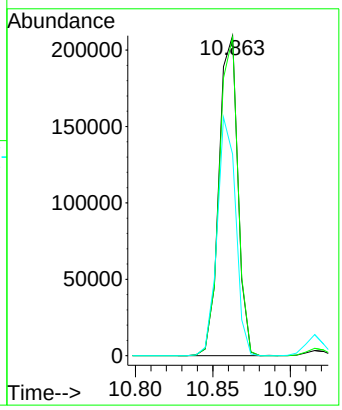




#67
4-Bromophenyl-phenylether
Concen: 21.823 ng
RT: 10.863 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF134539.D
Acq: 01 Aug 2023 09:24

Tgt Ion:248 Resp: 17696

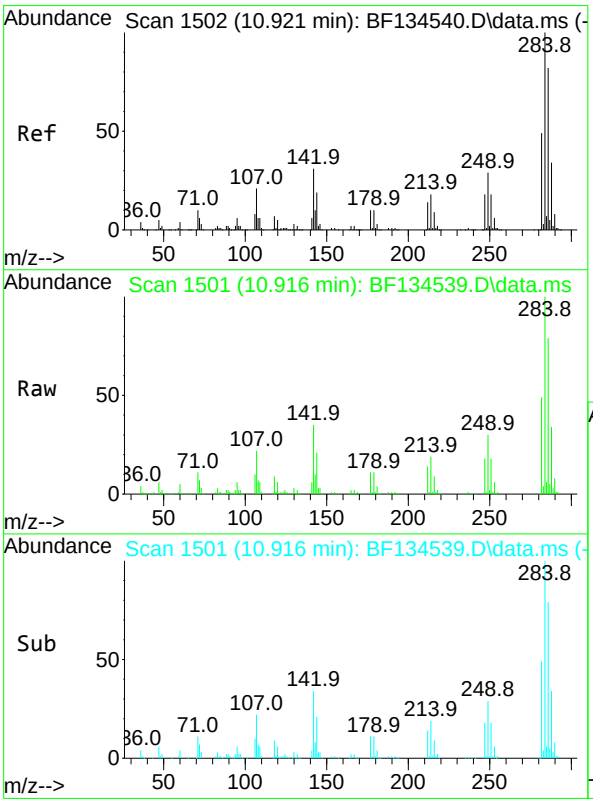
Ion	Ratio	Lower	Upper
248	100		
250	99.5	79.6	119.4
141	62.9	59.6	89.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

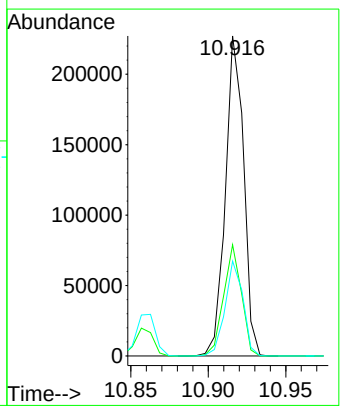
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

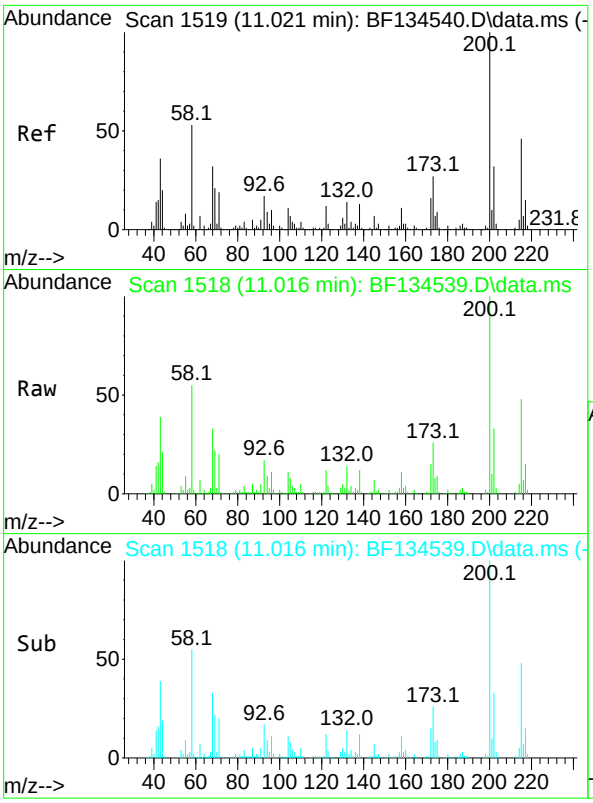


#68
Hexachlorobenzene
Concen: 21.709 ng
RT: 10.916 min Scan# 1501
Delta R.T. -0.006 min
Lab File: BF134539.D
Acq: 01 Aug 2023 09:24

Tgt Ion:284 Resp: 185898

Ion	Ratio	Lower	Upper
284	100		
142	34.7	26.5	39.7
249	29.7	23.8	35.8

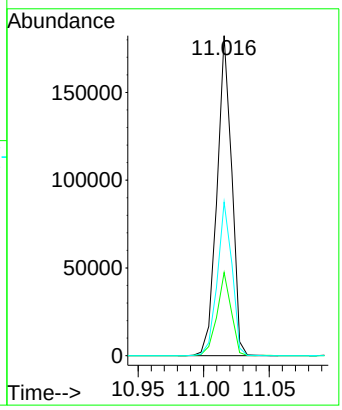




#69
Atrazine
Concen: 22.253 ng
RT: 11.016 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF134539.D
Acq: 01 Aug 2023 09:24

Tgt Ion:200 Resp: 14142

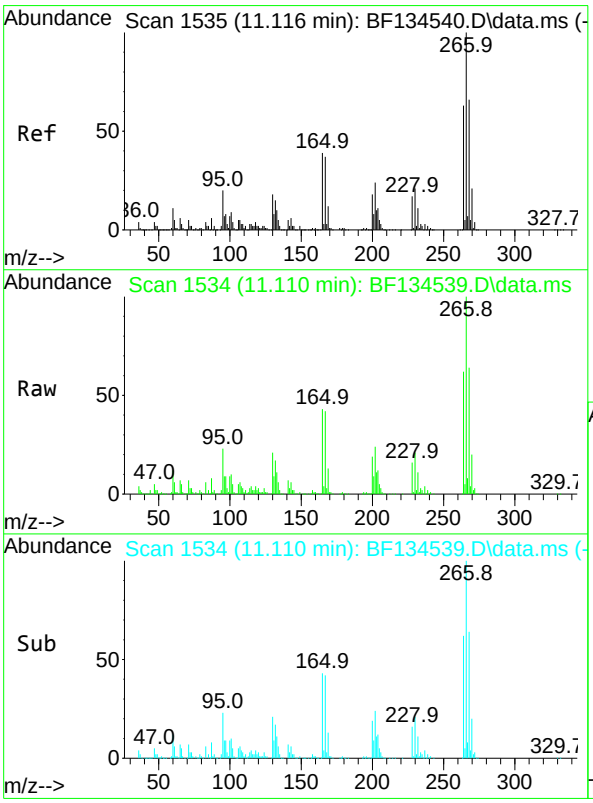
Ion	Ratio	Lower	Upper
200	100		
173	26.0	6.1	46.1
215	48.0	29.7	69.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

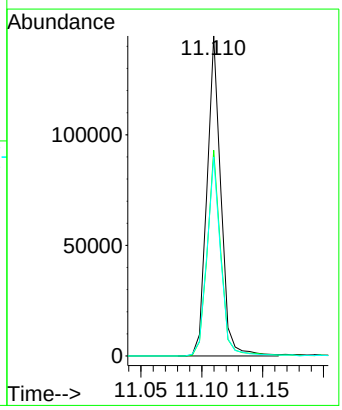
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

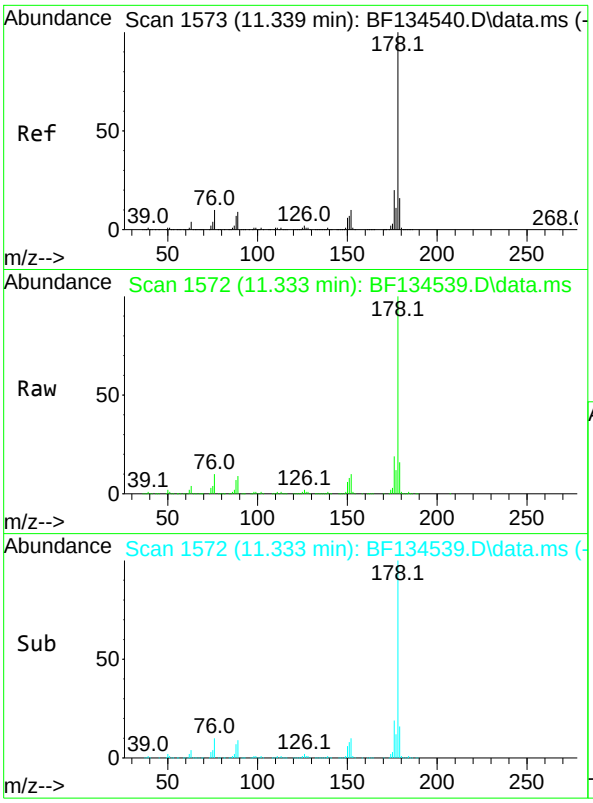


#70
Pentachlorophenol
Concen: 21.670 ng
RT: 11.110 min Scan# 1534
Delta R.T. -0.006 min
Lab File: BF134539.D
Acq: 01 Aug 2023 09:24

Tgt Ion:266 Resp: 114893

Ion	Ratio	Lower	Upper
266	100		
268	64.3	52.9	79.3
264	62.2	47.8	71.6

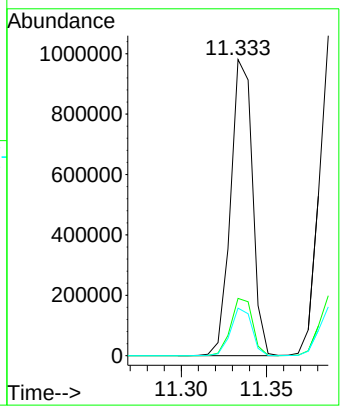




#71
Phenanthrene
Concen: 22.156 ng
RT: 11.333 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF134539.D
Acq: 01 Aug 2023 09:24

Tgt Ion:178 Resp: 87175

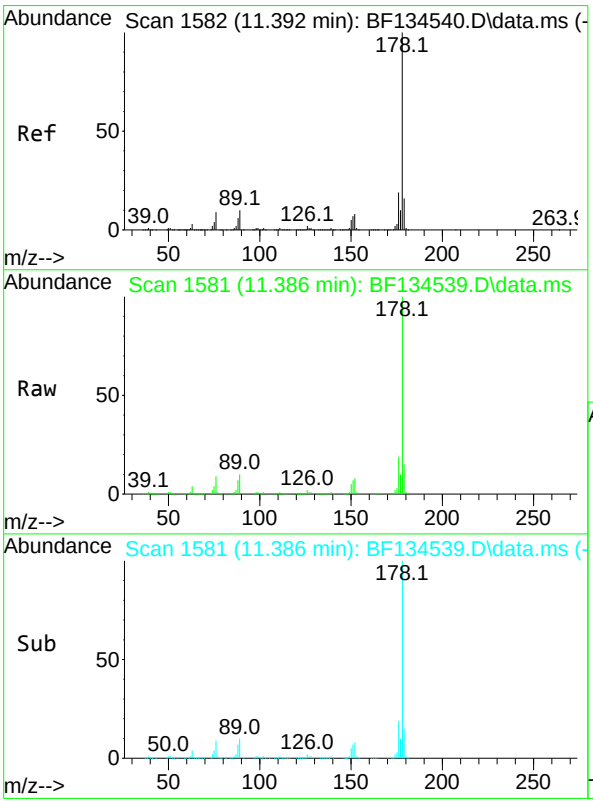
Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.8	23.6
179	16.0	12.7	19.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

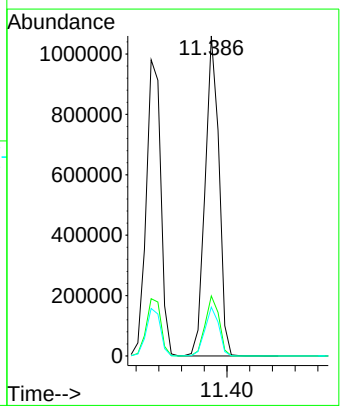
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

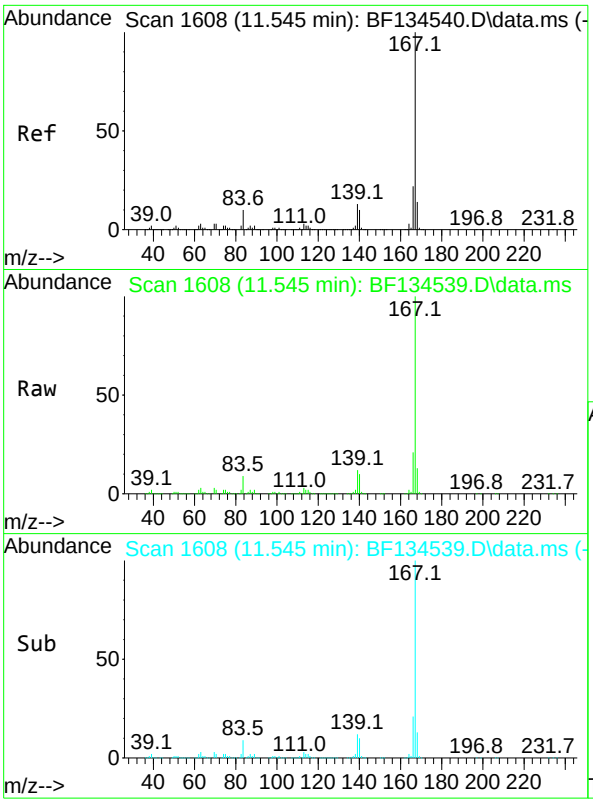


#72
Anthracene
Concen: 22.280 ng
RT: 11.386 min Scan# 1581
Delta R.T. -0.006 min
Lab File: BF134539.D
Acq: 01 Aug 2023 09:24

Tgt Ion:178 Resp: 895442

Ion	Ratio	Lower	Upper
178	100		
176	18.8	14.6	21.8
179	15.3	12.3	18.5

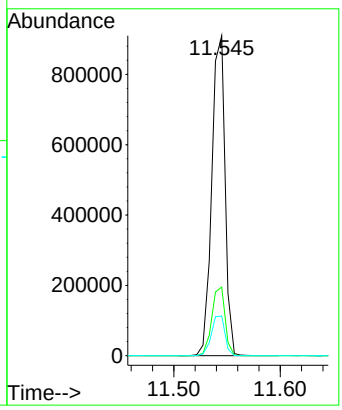




#73
Carbazole
Concen: 22.017 ng
RT: 11.545 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134539.D
Acq: 01 Aug 2023 09:24

Tgt Ion:167 Resp: 79010

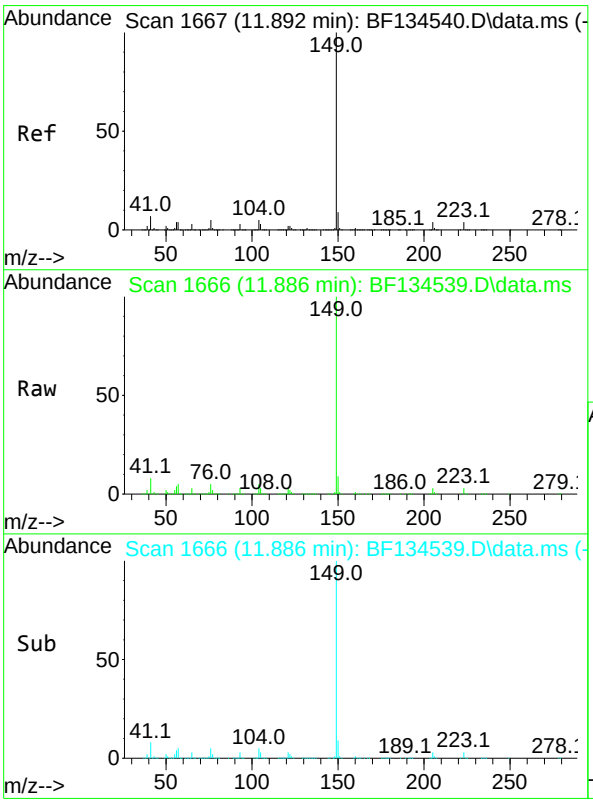
Ion	Ratio	Lower	Upper
167	100		
166	21.5	17.5	26.3
139	12.4	11.0	16.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

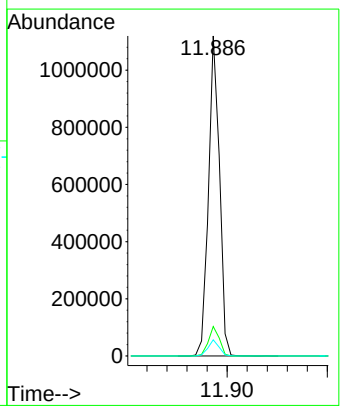
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

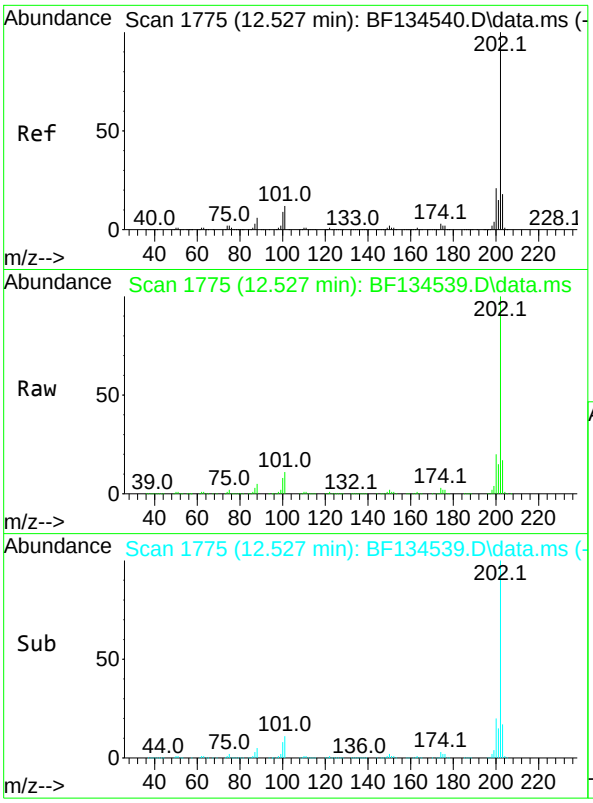


#74
Di-n-butylphthalate
Concen: 22.445 ng
RT: 11.886 min Scan# 1666
Delta R.T. -0.006 min
Lab File: BF134539.D
Acq: 01 Aug 2023 09:24

Tgt Ion:149 Resp: 855704

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.2	10.8
104	5.1	3.8	5.8

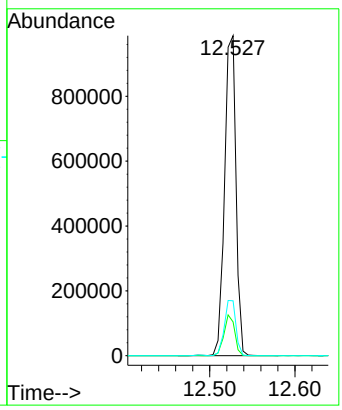




#75
Fluoranthene
Concen: 22.147 ng
RT: 12.527 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134539.D
Acq: 01 Aug 2023 09:24

Tgt Ion:202 Resp: 92049

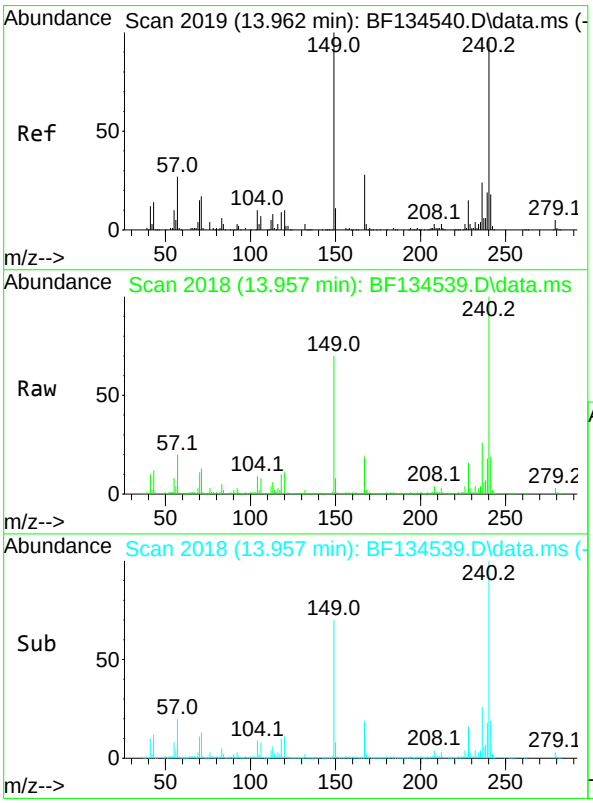
Ion	Ratio	Lower	Upper
202	100		
101	10.5	0.0	28.5
203	17.2	0.0	37.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

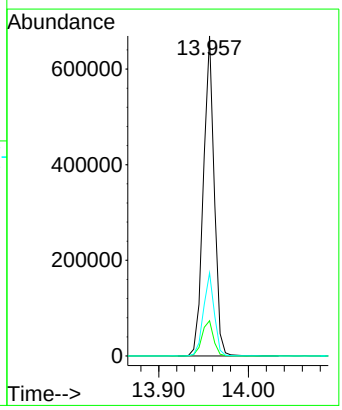
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

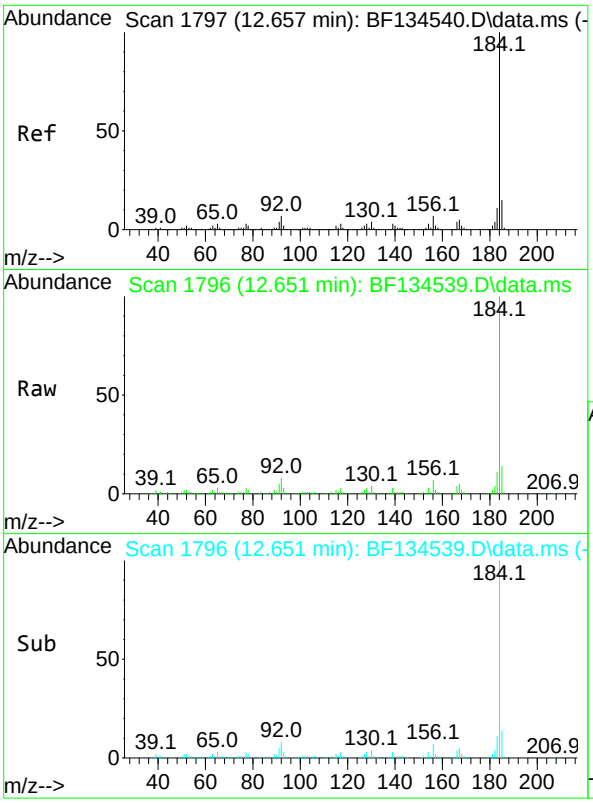


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.957 min Scan# 2018
Delta R.T. -0.006 min
Lab File: BF134539.D
Acq: 01 Aug 2023 09:24

Tgt Ion:240 Resp: 561492

Ion	Ratio	Lower	Upper
240	100		
120	11.0	6.6	10.0#
236	25.9	20.2	30.2

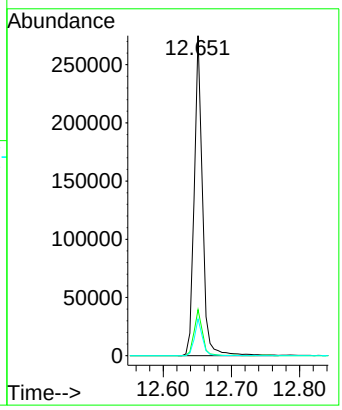




#77
Benzidine
Concen: 18.975 ng
RT: 12.651 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF134539.D
Acq: 01 Aug 2023 09:24

Tgt Ion:184 Resp: 23128

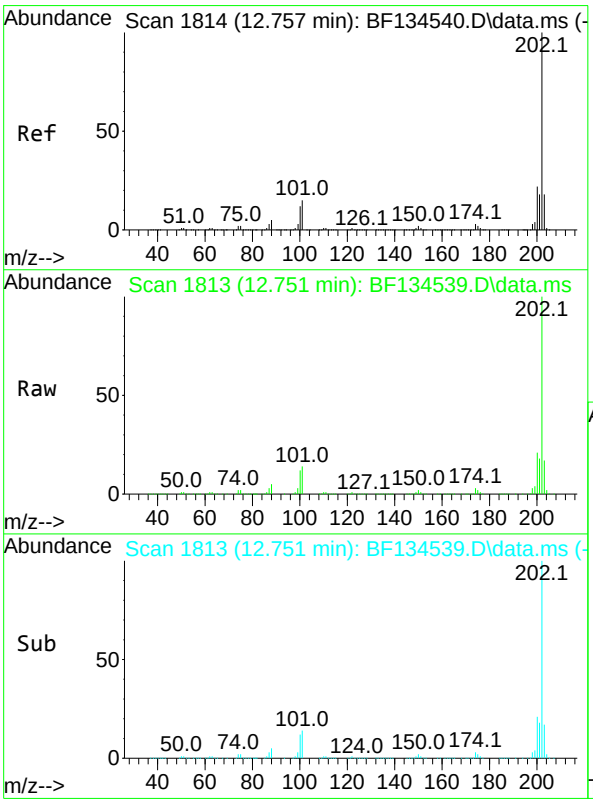
Ion	Ratio	Lower	Upper
184	100		
185	14.4	11.2	16.8
183	11.5	8.6	13.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

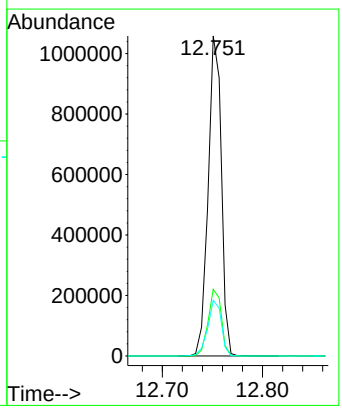
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

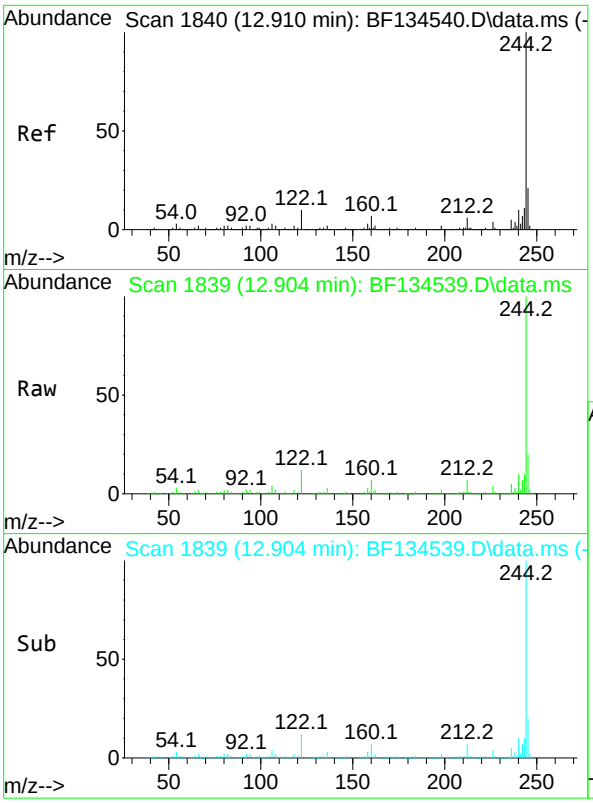


#78
Pyrene
Concen: 19.946 ng
RT: 12.751 min Scan# 1813
Delta R.T. -0.006 min
Lab File: BF134539.D
Acq: 01 Aug 2023 09:24

Tgt Ion:202 Resp: 969134

Ion	Ratio	Lower	Upper
202	100		
200	20.8	15.8	23.8
203	17.4	13.5	20.3

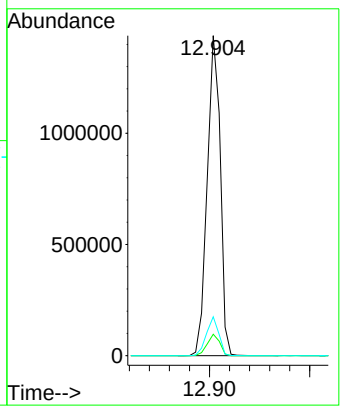




#79
Terphenyl-d14
Concen: 40.791 ng
RT: 12.904 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF134539.D
Acq: 01 Aug 2023 09:24

Tgt Ion:244 Resp: 129922

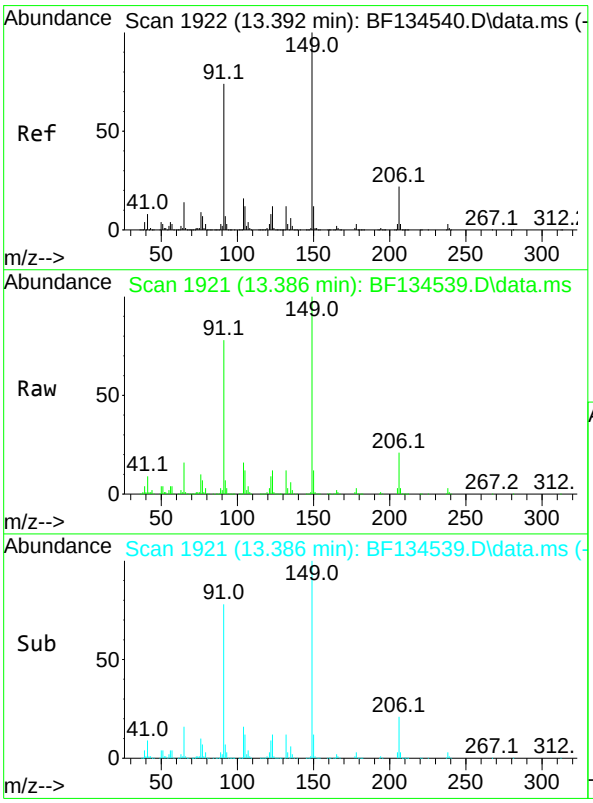
Ion	Ratio	Lower	Upper
244	100		
212	6.7	5.6	8.4
122	12.2	8.0	12.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

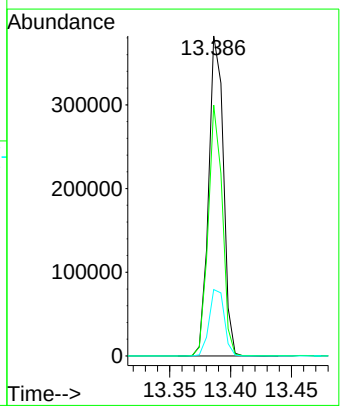
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

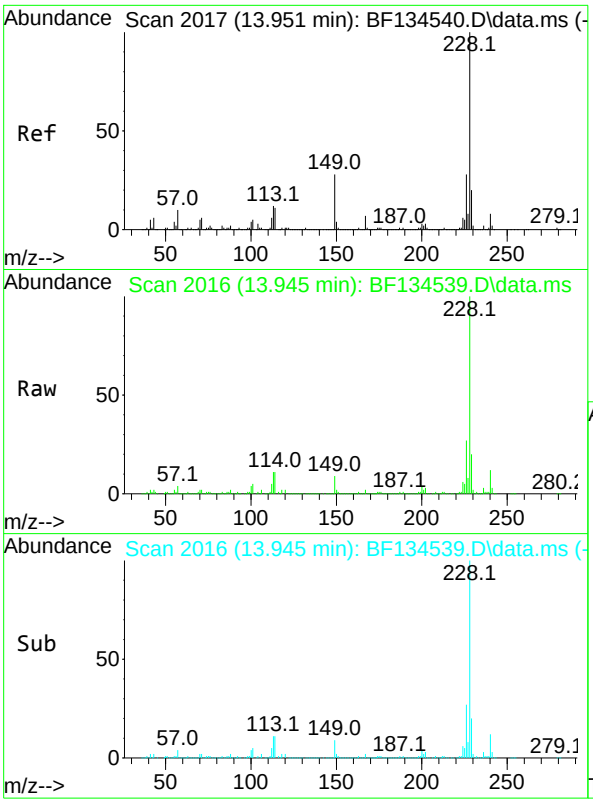


#80
Butylbenzylphthalate
Concen: 19.512 ng
RT: 13.386 min Scan# 1921
Delta R.T. -0.006 min
Lab File: BF134539.D
Acq: 01 Aug 2023 09:24

Tgt Ion:149 Resp: 320565

Ion	Ratio	Lower	Upper
149	100		
91	78.4	55.8	83.6
206	20.7	14.6	21.8

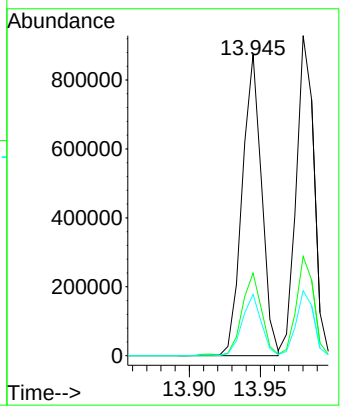




#81
Benzo(a)anthracene
Concen: 20.731 ng
RT: 13.945 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF134539.D
Acq: 01 Aug 2023 09:24

Tgt Ion:228 Resp: 83232

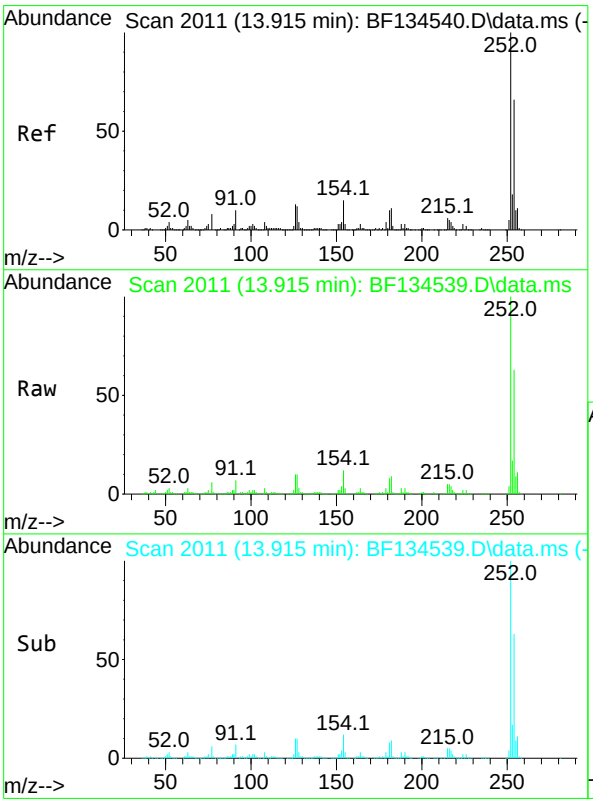
Ion	Ratio	Lower	Upper
228	100		
226	27.4	22.3	33.5
229	20.3	15.8	23.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

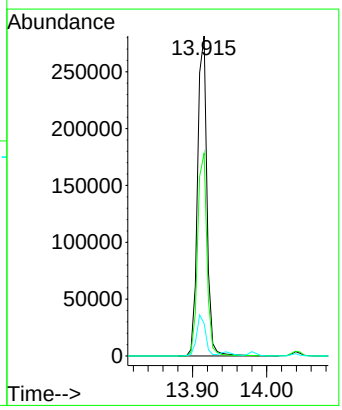
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

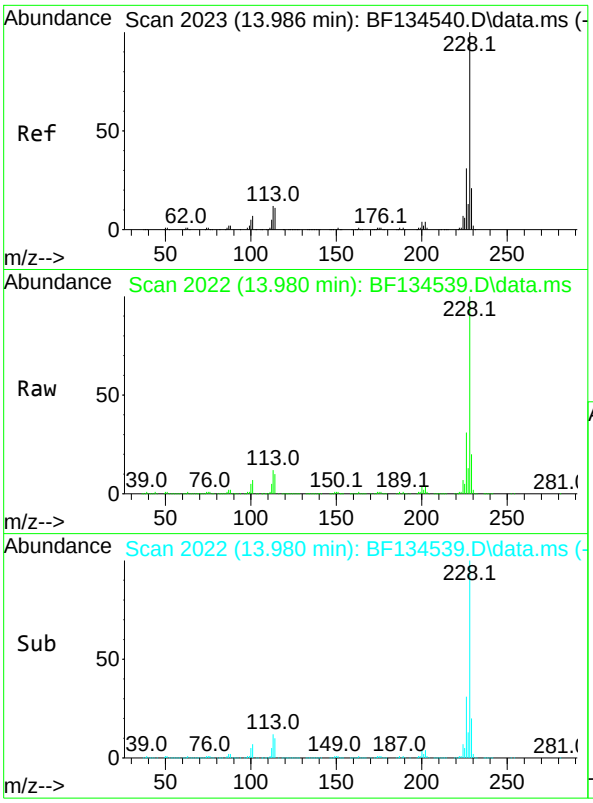


#82
3,3'-Dichlorobenzidine
Concen: 21.143 ng
RT: 13.915 min Scan# 2011
Delta R.T. 0.000 min
Lab File: BF134539.D
Acq: 01 Aug 2023 09:24

Tgt Ion:252 Resp: 246053

Ion	Ratio	Lower	Upper
252	100		
254	63.4	52.7	79.1
126	10.1	7.2	10.8

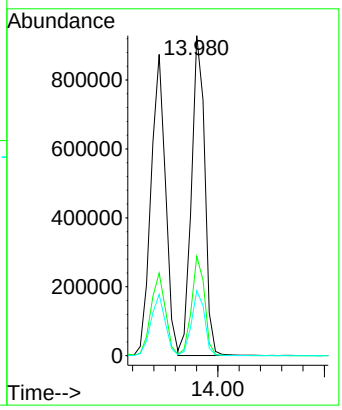




#83
Chrysene
Concen: 20.632 ng
RT: 13.980 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF134539.D
Acq: 01 Aug 2023 09:24

Tgt Ion:228 Resp: 80703

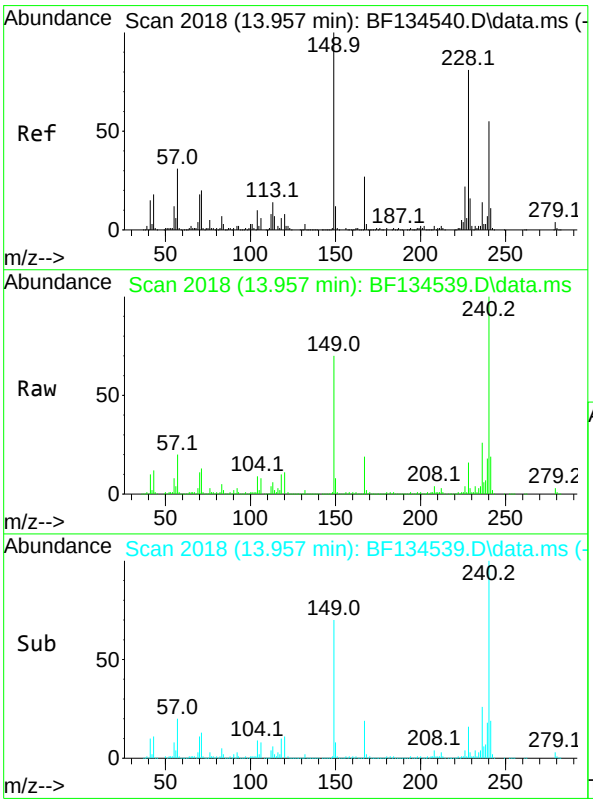
Ion	Ratio	Lower	Upper
228	100		
226	31.1	24.5	36.7
229	20.3	15.8	23.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

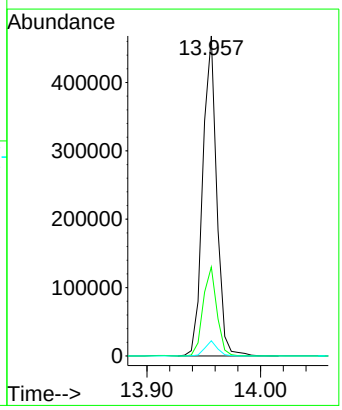
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

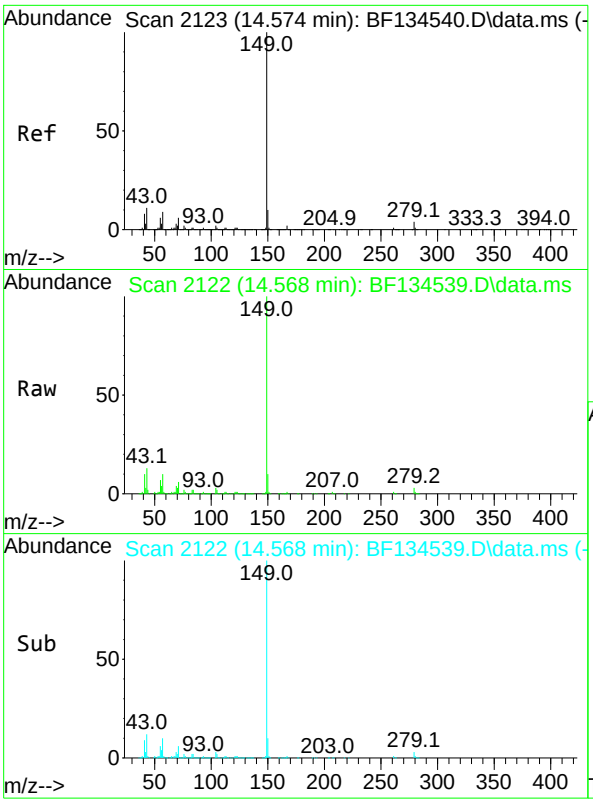


#84
Bis(2-ethylhexyl)phthalate
Concen: 20.647 ng
RT: 13.957 min Scan# 2018
Delta R.T. 0.000 min
Lab File: BF134539.D
Acq: 01 Aug 2023 09:24

Tgt Ion:149 Resp: 399195

Ion	Ratio	Lower	Upper
149	100		
167	27.8	21.6	32.4
279	4.8	3.5	5.3





#85
Di-n-octyl phthalate
Concen: 19.905 ng
RT: 14.568 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF134539.D
Acq: 01 Aug 2023 09:24

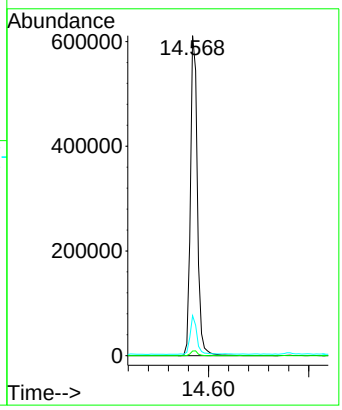
Tgt Ion:149 Resp: 58525

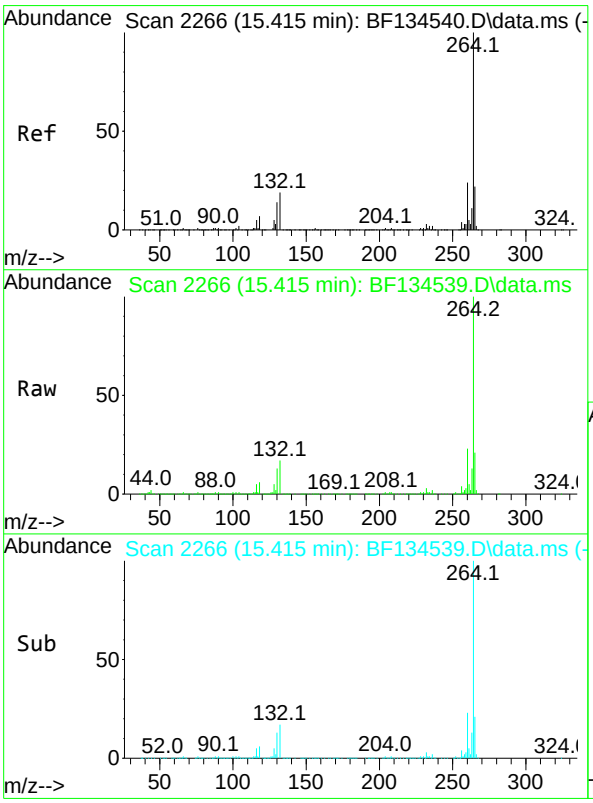
Ion	Ratio	Lower	Upper
149	100		
167	1.5	1.2	1.8
43	12.0	8.1	12.1

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

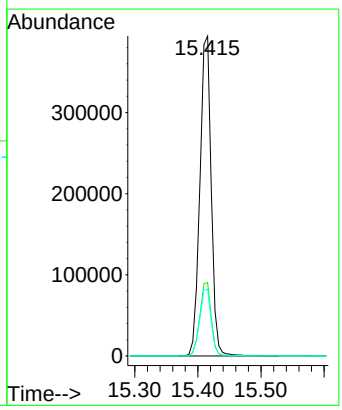


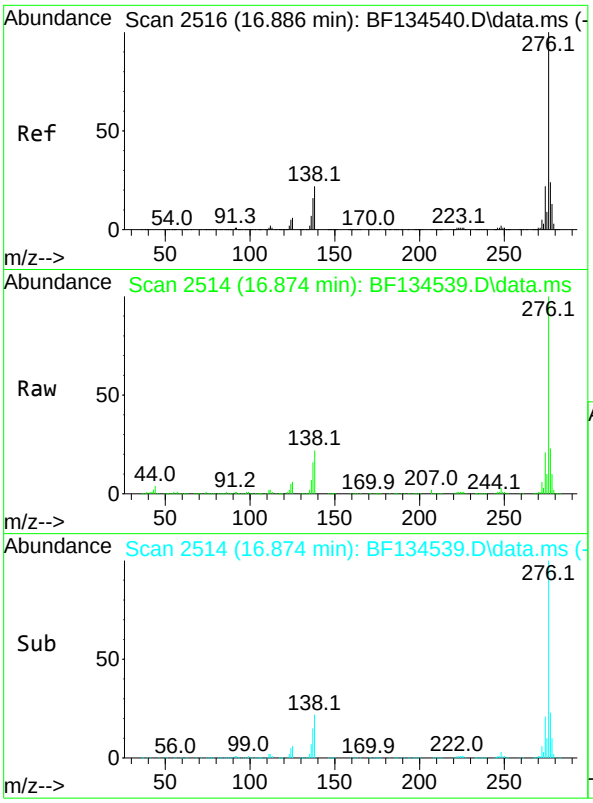


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.415 min Scan# 2266
Delta R.T. 0.000 min
Lab File: BF134539.D
Acq: 01 Aug 2023 09:24

Tgt Ion:264 Resp: 493588

Ion	Ratio	Lower	Upper
264	100		
260	22.9	18.4	27.6
265	20.9	15.8	23.8

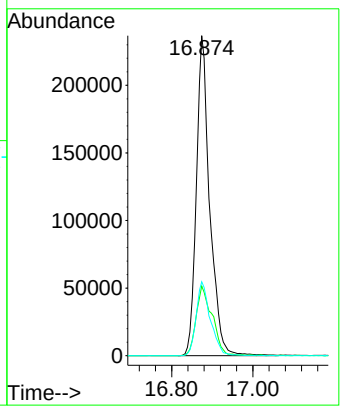




#87
Indeno(1,2,3-cd)pyrene
Concen: 18.726 ng
RT: 16.874 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF134539.D
Acq: 01 Aug 2023 09:24

Tgt Ion:276 Resp: 54361

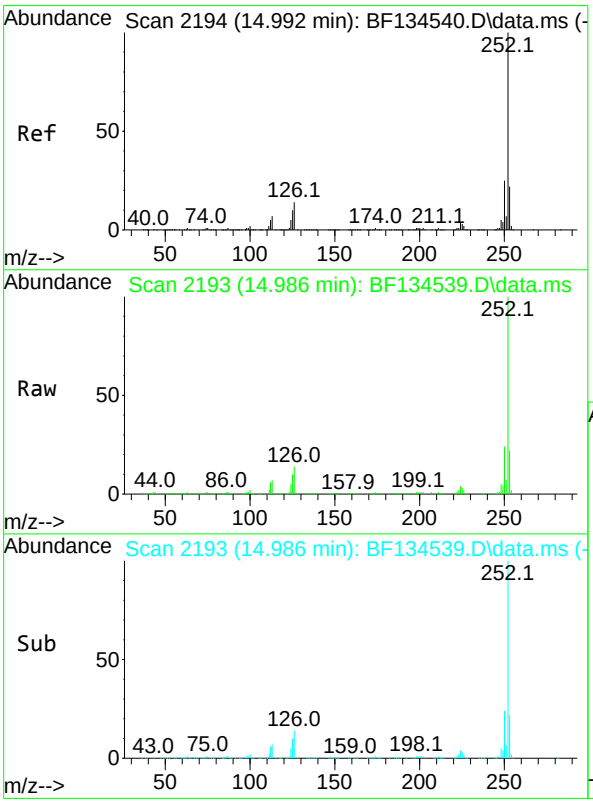
Ion	Ratio	Lower	Upper
276	100		
138	26.0	14.2	21.4#
277	24.6	19.9	29.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

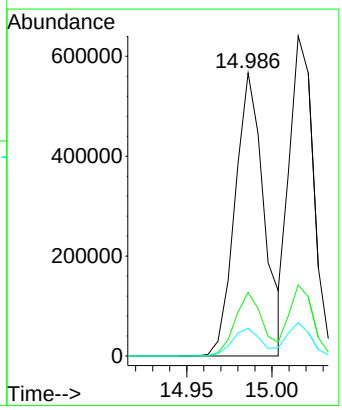
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

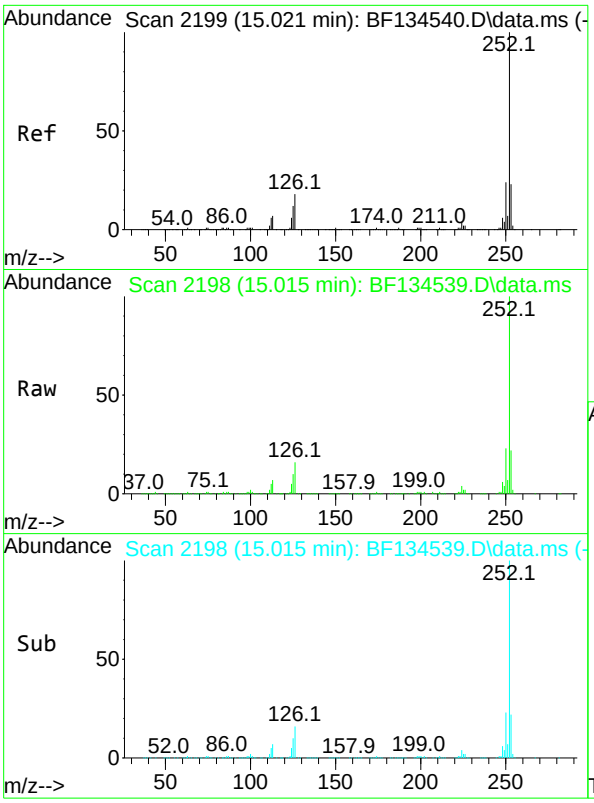


#88
Benzo(b)fluoranthene
Concen: 22.274 ng
RT: 14.986 min Scan# 2193
Delta R.T. -0.006 min
Lab File: BF134539.D
Acq: 01 Aug 2023 09:24

Tgt Ion:252 Resp: 670528

Ion	Ratio	Lower	Upper
252	100		
253	22.5	17.3	25.9
125	9.8	6.0	9.0#

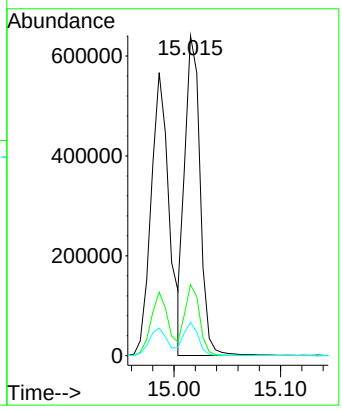




#89
Benzo(k)fluoranthene
Concen: 21.339 ng
RT: 15.015 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF134539.D
Acq: 01 Aug 2023 09:24

Tgt Ion:252 Resp: 63991

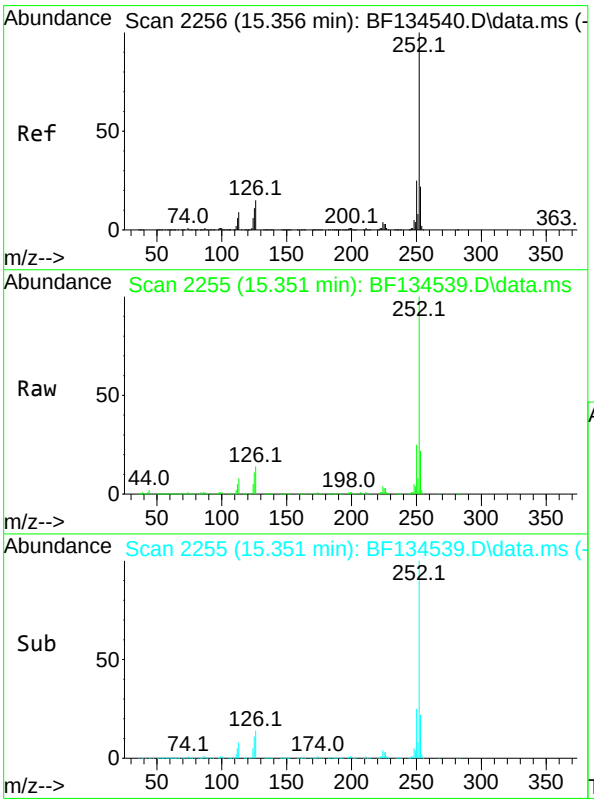
Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.9	26.9
125	10.4	6.3	9.5#



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

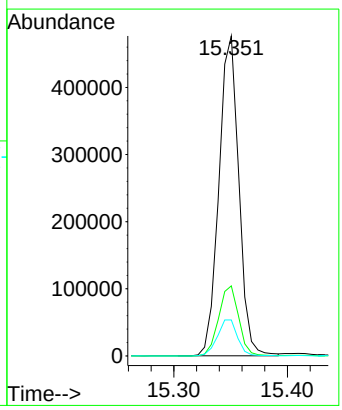
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

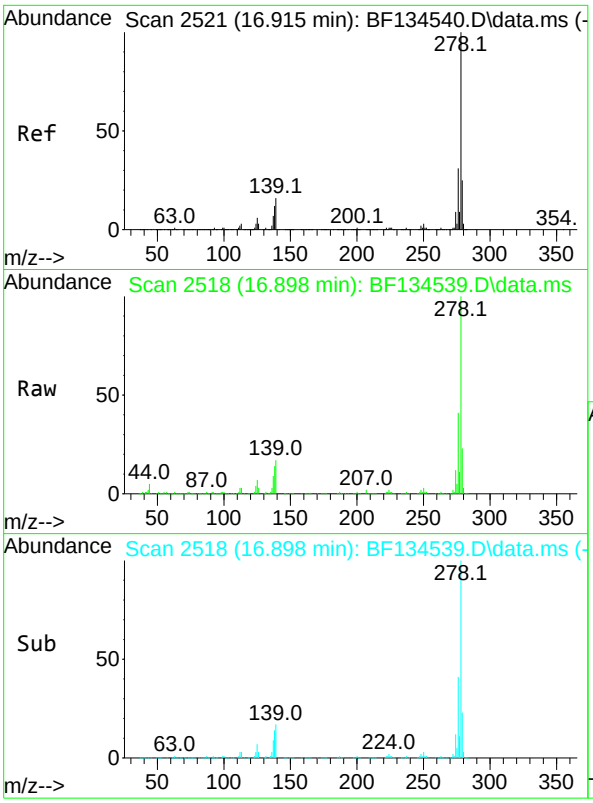


#90
Benzo(a)pyrene
Concen: 20.709 ng
RT: 15.351 min Scan# 2255
Delta R.T. -0.006 min
Lab File: BF134539.D
Acq: 01 Aug 2023 09:24

Tgt Ion:252 Resp: 581255

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.0	25.4
125	11.2	6.2	9.4#

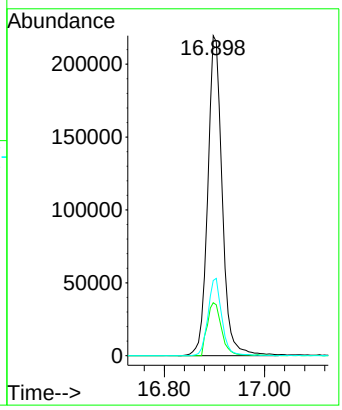




#91
Dibenzo(a,h)anthracene
Concen: 18.705 ng
RT: 16.898 min Scan# 2
Delta R.T. -0.018 min
Lab File: BF134539.D
Acq: 01 Aug 2023 09:24

Tgt Ion:278 Resp: 43881

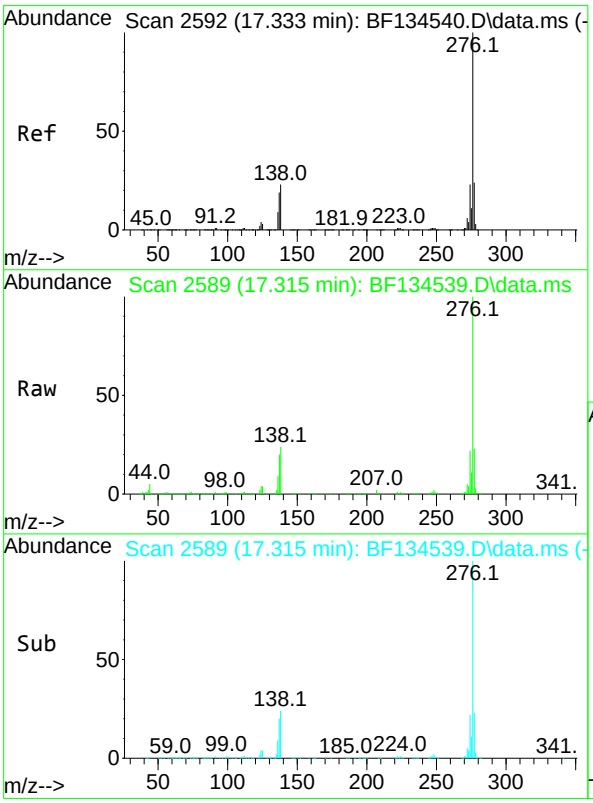
Ion	Ratio	Lower	Upper
278	100		
139	16.5	10.0	15.0#
279	23.5	19.7	29.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

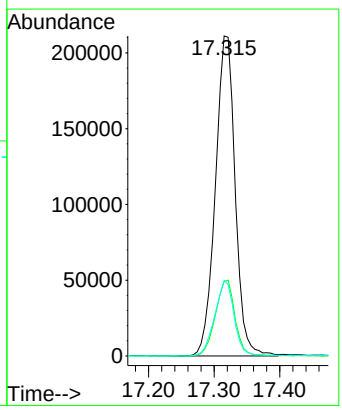
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023



#92
Benzo(g,h,i)perylene
Concen: 18.491 ng
RT: 17.315 min Scan# 2589
Delta R.T. -0.018 min
Lab File: BF134539.D
Acq: 01 Aug 2023 09:24

Tgt Ion:276 Resp: 442511

Ion	Ratio	Lower	Upper
276	100		
277	23.3	19.0	28.6
138	23.6	12.2	18.2#



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080123\
Data File : BF134540.D
Acq On : 01 Aug 2023 10:12
Operator : CG\JU
Sample : SSTDICCC040
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Quant Time: Aug 02 02:13:53 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 02 02:08:18 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.792	152	213182	20.000	ng		0.00
21) Naphthalene-d8	8.075	136	805859	20.000	ng	#	0.00
39) Acenaphthene-d10	9.827	164	399274	20.000	ng		0.00
64) Phenanthrene-d10	11.316	188	726478	20.000	ng	#	0.00
76) Chrysene-d12	13.962	240	486561	20.000	ng	#	0.00
86) Perylene-d12	15.415	264	442066	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.416	112	1110222	79.165	ng		0.00
7) Phenol-d6	6.428	99	1415572	78.962	ng		0.00
23) Nitrobenzene-d5	7.357	82	1098118	85.157	ng		0.00
42) 2,4,6-Tribromophenol	10.616	330	345010	84.764	ng		0.00
45) 2-Fluorobiphenyl	9.151	172	1948882	81.157	ng		0.00
79) Terphenyl-d14	12.910	244	2211743	80.134	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.551	88	258235	40.021	ng		96
3) Pyridine	3.293	79	693587	39.668	ng		92
4) n-Nitrosodimethylamine	3.263	42	337493	40.397	ng	#	67
6) Aniline	6.463	93	933273	39.690	ng		93
8) 2-Chlorophenol	6.581	128	567661	40.126	ng		96
9) Benzaldehyde	6.345	77	343086	39.672	ng		100
10) Phenol	6.439	94	715677	40.508	ng		79
11) bis(2-Chloroethyl)ether	6.539	93	556330	39.641	ng		93
12) 1,3-Dichlorobenzene	6.733	146	580589	39.666	ng		97
13) 1,4-Dichlorobenzene	6.816	146	585076	39.884	ng		96
14) 1,2-Dichlorobenzene	6.963	146	542772	39.711	ng		96
15) Benzyl Alcohol	6.939	79	498277	40.289	ng		92
16) 2,2'-oxybis(1-Chloropr...	7.075	45	875915	39.838	ng		88
17) 2-Methylphenol	7.045	107	498581	39.882	ng		91
18) Hexachloroethane	7.304	117	204554	39.730	ng		98
19) n-Nitroso-di-n-propyla...	7.216	70	416778	38.830	ng		91
20) 3+4-Methylphenols	7.198	107	607658	40.305	ng	#	70
22) Acetophenone	7.204	105	733160	39.409	ng	#	90
24) Nitrobenzene	7.380	77	586788	42.120	ng		93
25) Isophorone	7.616	82	1111652	39.524	ng		98
26) 2-Nitrophenol	7.692	139	221633	38.446	ng	#	85
27) 2,4-Dimethylphenol	7.728	122	494357	39.392	ng		84
28) bis(2-Chloroethoxy)met...	7.828	93	662880	39.399	ng		100
29) 2,4-Dichlorophenol	7.928	162	465809	40.896	ng		97
30) 1,2,4-Trichlorobenzene	8.016	180	485392	39.963	ng		98
31) Naphthalene	8.098	128	1627958	40.196	ng		99
32) Benzoic acid	7.845	122	285456	37.022	ng		89
33) 4-Chloroaniline	8.145	127	714644	39.601	ng		98
34) Hexachlorobutadiene	8.216	225	280387	40.021	ng		95
35) Caprolactam	8.516	113	152729	41.548	ng		98
36) 4-Chloro-3-methylphenol	8.622	107	486454	40.328	ng		94
37) 2-Methylnaphthalene	8.786	142	1059281	39.458	ng		100
38) 1-Methylnaphthalene	8.886	142	995760	39.889	ng		99
40) 1,2,4,5-Tetrachloroben...	8.951	216	466916	40.215	ng		99
41) Hexachlorocyclopentadiene	8.939	237	244145	43.242	ng		95
43) 2,4,6-Trichlorophenol	9.063	196	312414	41.115	ng		95

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080123\
Data File : BF134540.D
Acq On : 01 Aug 2023 10:12
Operator : CG\JU
Sample : SSTDICCC040
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Quant Time: Aug 02 02:13:53 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 02 02:08:18 2023
Response via : Initial Calibration

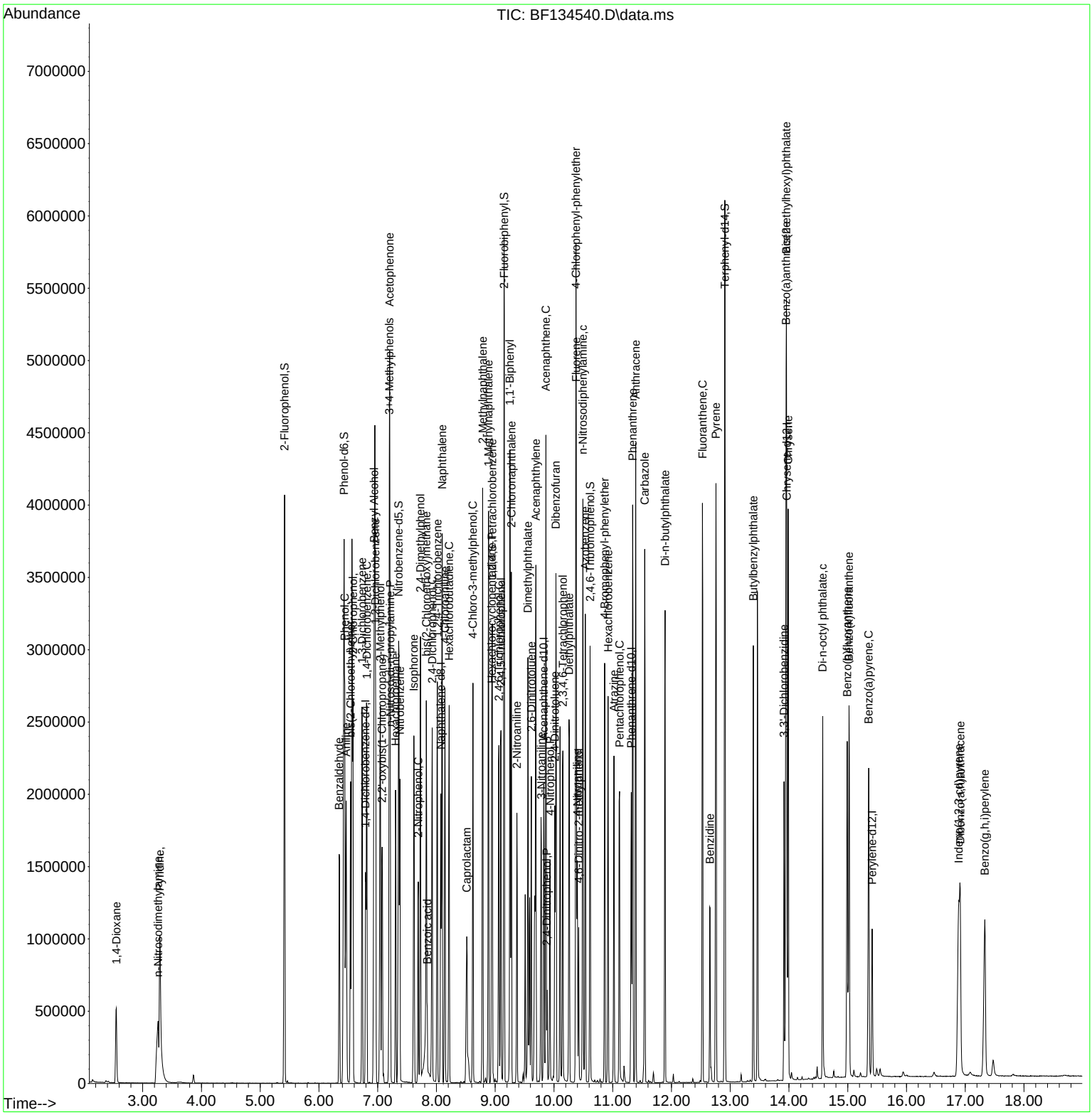
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.098	196	360112	41.466	ng		92
46) 1,1'-Biphenyl	9.251	154	1248943	40.225	ng		98
47) 2-Chloronaphthalene	9.274	162	936578	40.257	ng		99
48) 2-Nitroaniline	9.369	65	288955	40.377	ng		98
49) Acenaphthylene	9.692	152	1473608	40.296	ng		99
50) Dimethylphthalate	9.557	163	1095298	40.249	ng		98
51) 2,6-Dinitrotoluene	9.616	165	224133	40.603	ng		87
52) Acenaphthene	9.863	154	951526	40.151	ng		99
53) 3-Nitroaniline	9.786	138	273044	45.015	ng		98
54) 2,4-Dinitrophenol	9.880	184	61533	37.899	ng		89
55) Dibenzofuran	10.033	168	1387391	41.124	ng		95
56) 4-Nitrophenol	9.933	139	206620	41.650	ng	#	78
57) 2,4-Dinitrotoluene	10.016	165	272198	40.868	ng		93
58) Fluorene	10.380	166	961921	39.145	ng		96
59) 2,3,4,6-Tetrachlorophenol	10.151	232	286339	41.605	ng		95
60) Diethylphthalate	10.257	149	1054509	40.881	ng		98
61) 4-Chlorophenyl-phenyle...	10.374	204	473101	39.169	ng		92
62) 4-Nitroaniline	10.398	138	265737	44.698	ng		87
63) Azobenzene	10.533	77	1121923	40.482	ng		97
65) 4,6-Dinitro-2-methylph...	10.421	198	102663	37.326	ng		95
66) n-Nitrosodiphenylamine	10.492	169	931779	40.296	ng		99
67) 4-Bromophenyl-phenylether	10.863	248	320118	40.253	ng		98
68) Hexachlorobenzene	10.921	284	342123	40.739	ng		98
69) Atrazine	11.021	200	248054	39.800	ng		96
70) Pentachlorophenol	11.116	266	226414	43.544	ng		98
71) Phenanthrene	11.339	178	1557078	40.352	ng		100
72) Anthracene	11.392	178	1589503	40.327	ng		98
73) Carbazole	11.545	167	1421451	40.390	ng		99
74) Di-n-butylphthalate	11.892	149	1548328	41.412	ng		99
75) Fluoranthene	12.527	202	1676659	41.134	ng		96
77) Benzidine	12.657	184	469219	44.424	ng		99
78) Pyrene	12.757	202	1699764	40.372	ng		96
80) Butylbenzylphthalate	13.392	149	611759	42.970	ng		94
81) Benzo(a)anthracene	13.951	228	1411868	40.581	ng		99
82) 3,3'-Dichlorobenzidine	13.915	252	405654	40.224	ng	#	98
83) Chrysene	13.986	228	1361401	40.164	ng		99
84) Bis(2-ethylhexyl)phtha...	13.957	149	707149	42.208	ng		99
85) Di-n-octyl phthalate	14.574	149	1073569	42.137	ng		96
87) Indeno(1,2,3-cd)pyrene	16.886	276	1115190	42.894	ng	#	92
88) Benzo(b)fluoranthene	14.992	252	1069867	39.682	ng	#	98
89) Benzo(k)fluoranthene	15.021	252	1137626	42.357	ng	#	98
90) Benzo(a)pyrene	15.356	252	1037770	41.283	ng	#	96
91) Dibenzo(a,h)anthracene	16.915	278	898891	42.781	ng	#	96
92) Benzo(g,h,i)perylene	17.333	276	920966	42.970	ng	#	92

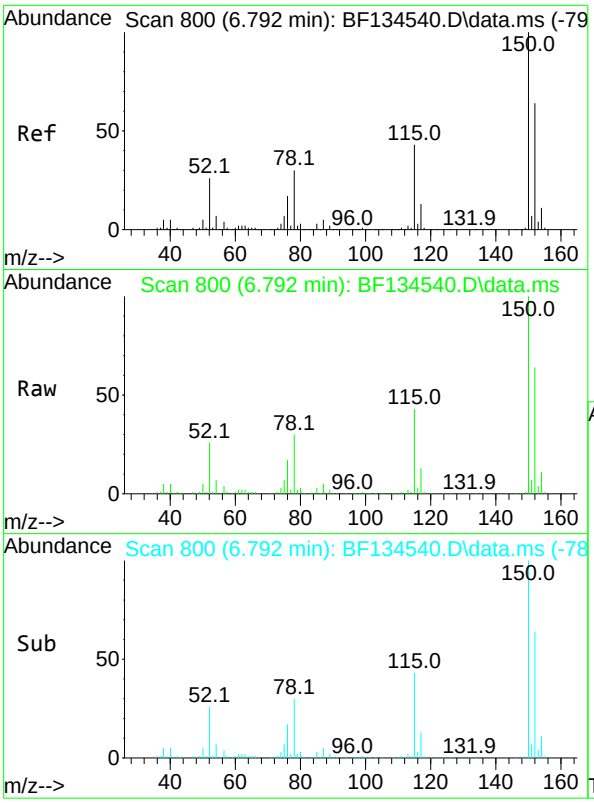
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080123\
Data File : BF134540.D
Acq On : 01 Aug 2023 10:12
Operator : CG\JU
Sample : SSTDICCC040
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Quant Time: Aug 02 02:13:53 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 02 02:08:18 2023
Response via : Initial Calibration



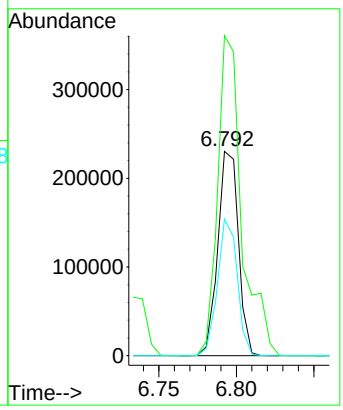


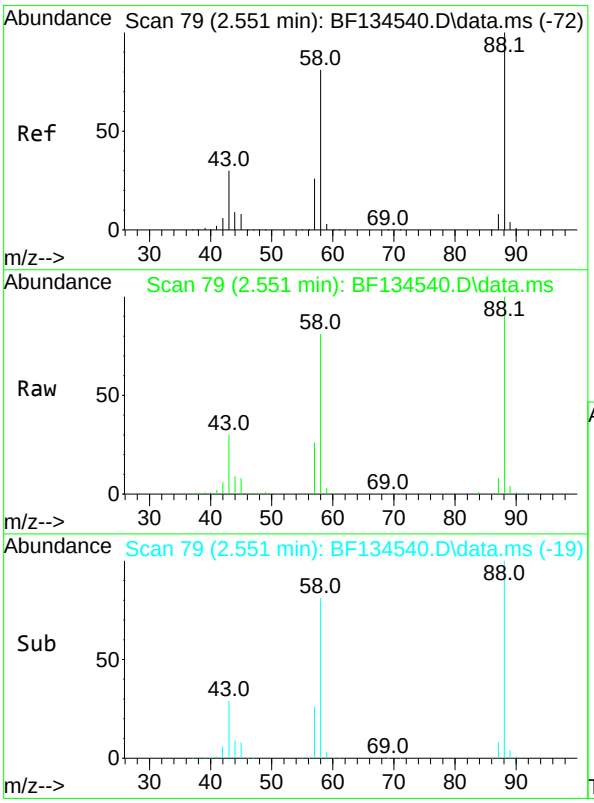
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.792 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF134540.D
Acq: 01 Aug 2023 10:12

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:152 Resp: 213182

Ion	Ratio	Lower	Upper
152	100		
150	156.6	128.3	192.5
115	66.9	52.4	78.6

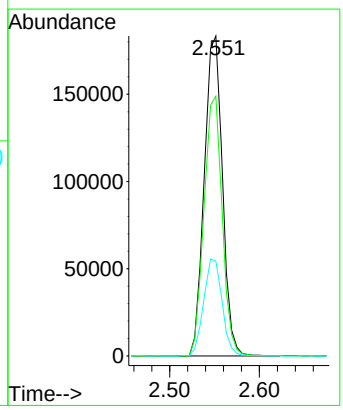


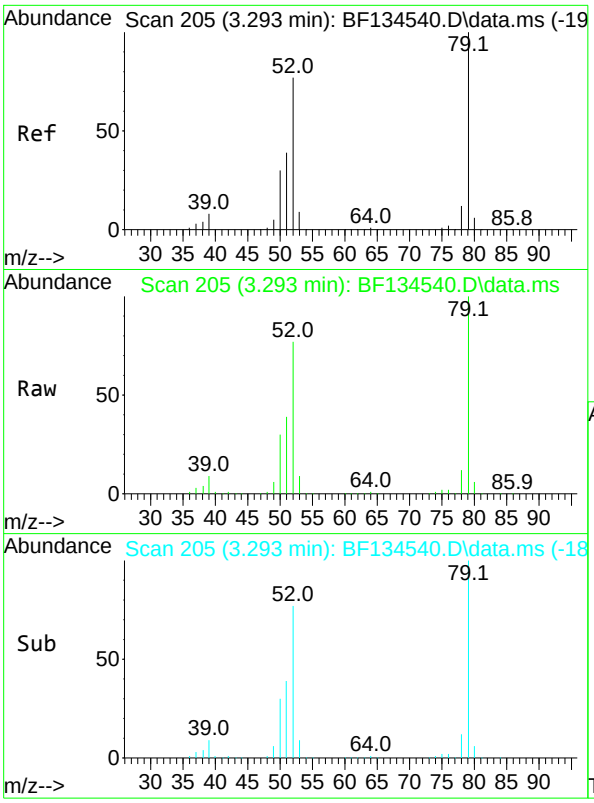


#2
1,4-Dioxane
Concen: 40.021 ng
RT: 2.551 min Scan# 79
Delta R.T. 0.000 min
Lab File: BF134540.D
Acq: 01 Aug 2023 10:12

Tgt Ion: 88 Resp: 258235

Ion	Ratio	Lower	Upper
88	100		
58	81.4	65.1	97.7
43	30.9	30.3	45.5



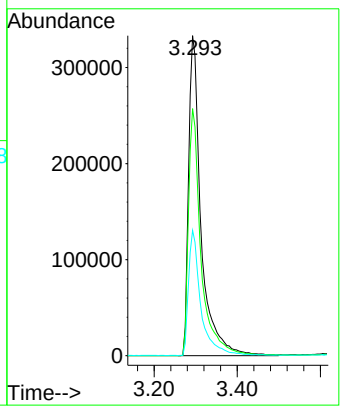


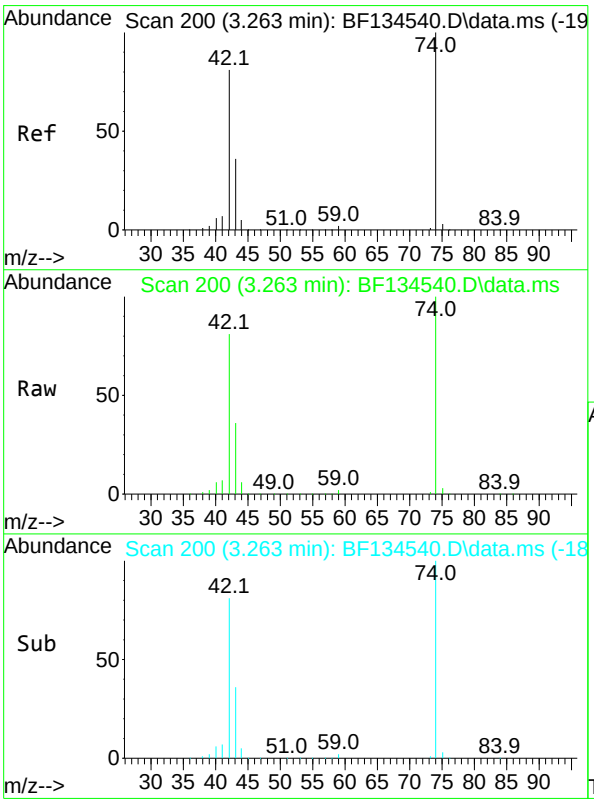
#3
Pyridine
Concen: 39.668 ng
RT: 3.293 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF134540.D
Acq: 01 Aug 2023 10:12

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion: 79 Resp: 693587

Ion	Ratio	Lower	Upper
79	100		
52	77.2	66.6	100.0
51	39.2	36.5	54.7

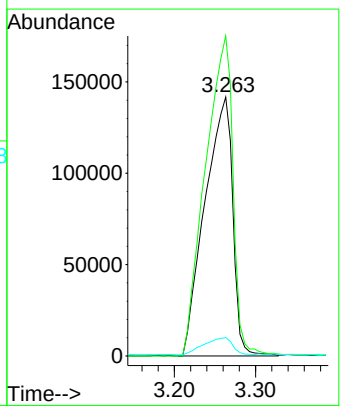


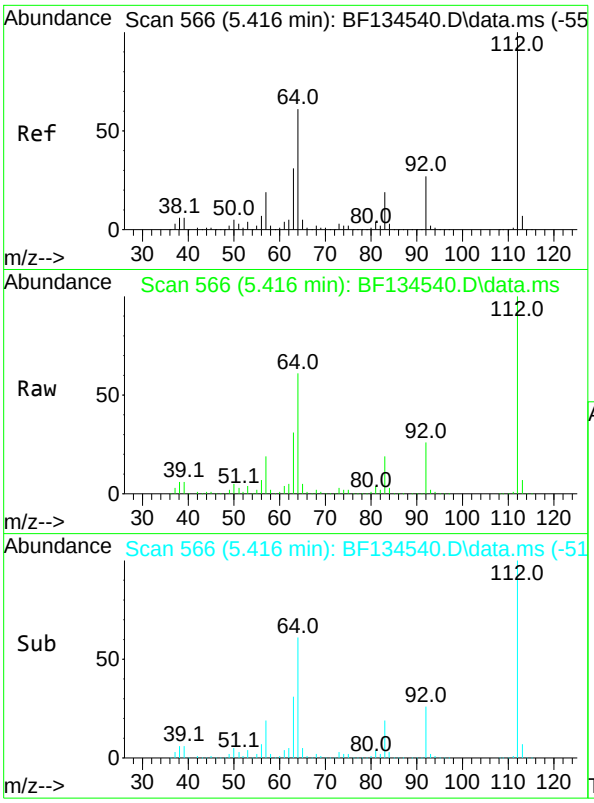


#4
n-Nitrosodimethylamine
Concen: 40.397 ng
RT: 3.263 min Scan# 200
Delta R.T. 0.000 min
Lab File: BF134540.D
Acq: 01 Aug 2023 10:12

Tgt Ion: 42 Resp: 337493

Ion	Ratio	Lower	Upper
42	100		
74	123.6	72.2	108.4#
44	7.1	5.4	8.0



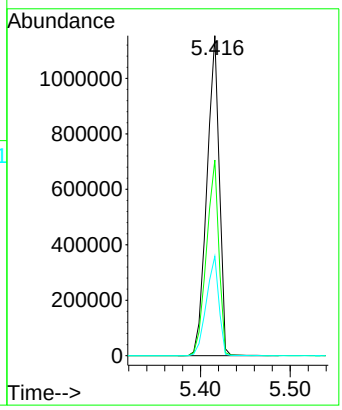


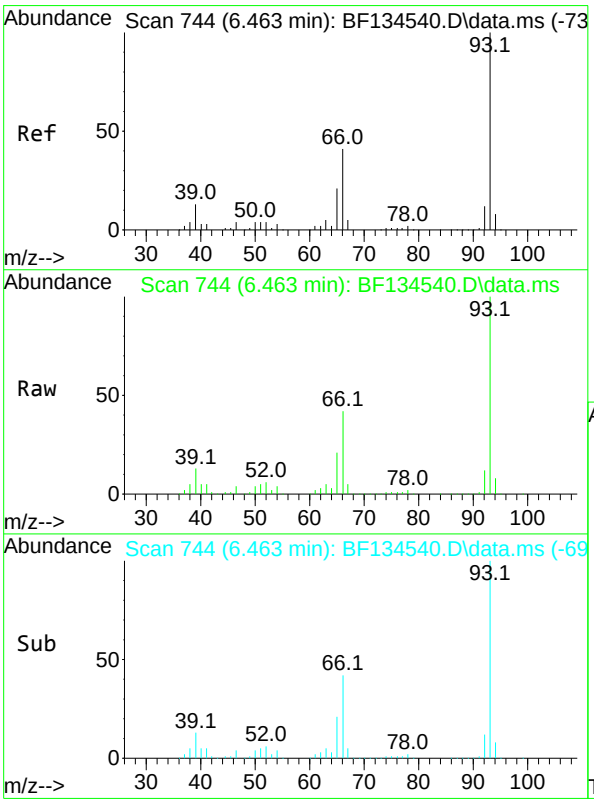
#5
2-Fluorophenol
Concen: 79.165 ng
RT: 5.416 min Scan# 5
Delta R.T. 0.000 min
Lab File: BF134540.D
Acq: 01 Aug 2023 10:12

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:112 Resp: 1110222

Ion	Ratio	Lower	Upper
112	100		
64	61.1	44.9	67.3
63	31.0	25.4	38.0

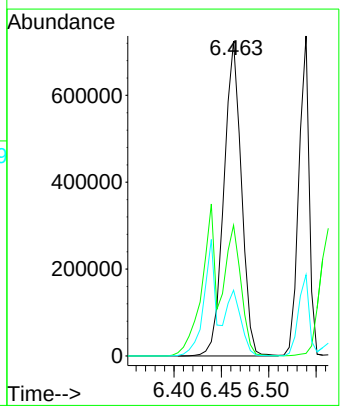


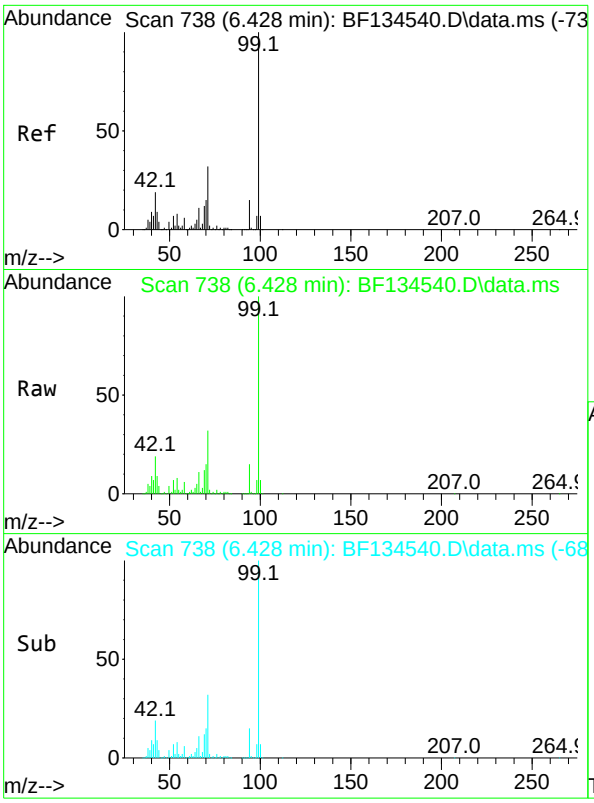


#6
Aniline
Concen: 39.690 ng
RT: 6.463 min Scan# 744
Delta R.T. 0.000 min
Lab File: BF134540.D
Acq: 01 Aug 2023 10:12

Tgt Ion: 93 Resp: 933273

Ion	Ratio	Lower	Upper
93	100		
66	41.5	36.8	55.2
65	20.9	19.4	29.0



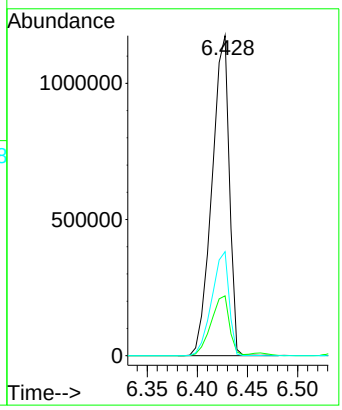


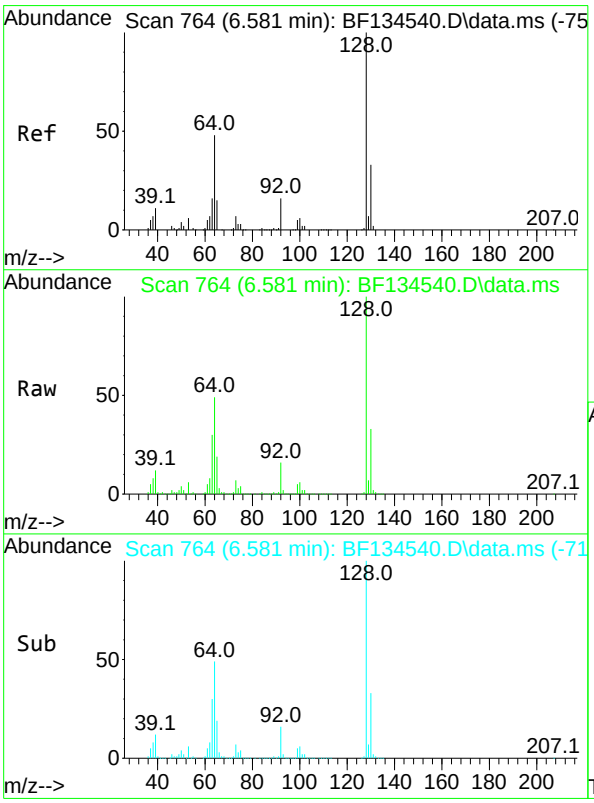
#7
Phenol-d6
Concen: 78.962 ng
RT: 6.428 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF134540.D
Acq: 01 Aug 2023 10:12

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion: 99 Resp: 1415572

Ion	Ratio	Lower	Upper
99	100		
42	18.7	18.7	28.1#
71	32.5	36.4	54.6#

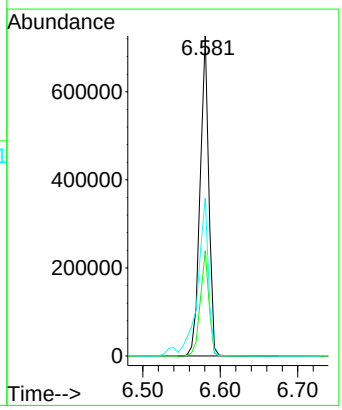


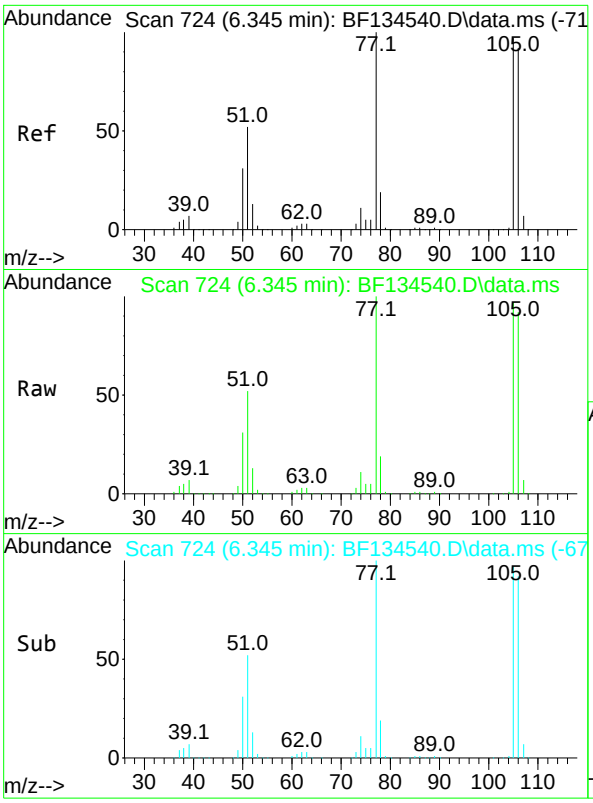


#8
2-Chlorophenol
Concen: 40.126 ng
RT: 6.581 min Scan# 764
Delta R.T. 0.000 min
Lab File: BF134540.D
Acq: 01 Aug 2023 10:12

Tgt Ion:128 Resp: 567661

Ion	Ratio	Lower	Upper
128	100		
130	32.9	11.1	51.1
64	49.3	31.9	71.9



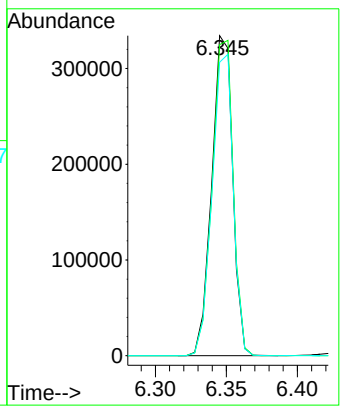


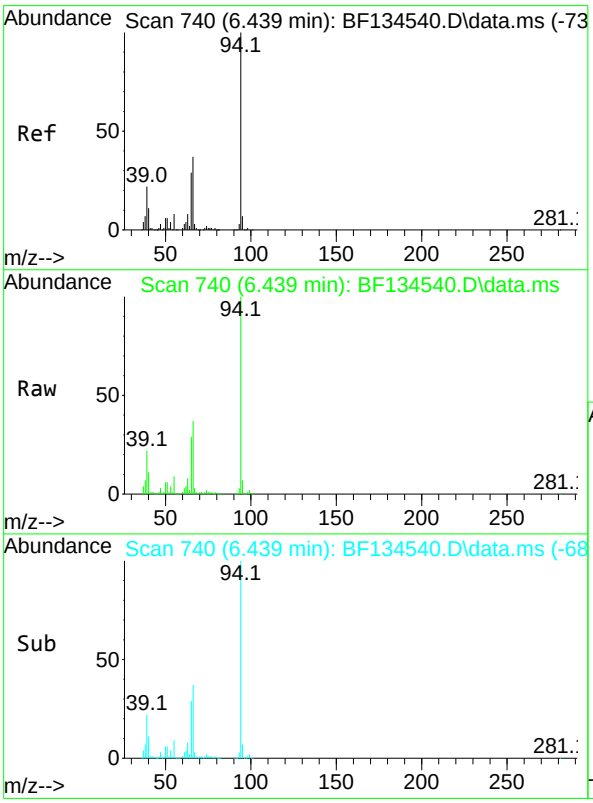
#9
Benzaldehyde
Concen: 39.672 ng
RT: 6.345 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF134540.D
Acq: 01 Aug 2023 10:12

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion: 77 Resp: 343086

Ion	Ratio	Lower	Upper
77	100		
105	97.2	77.1	117.1
106	91.7	71.4	111.4

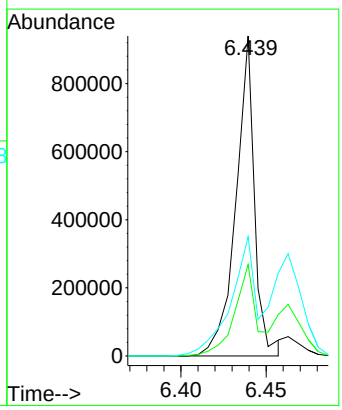


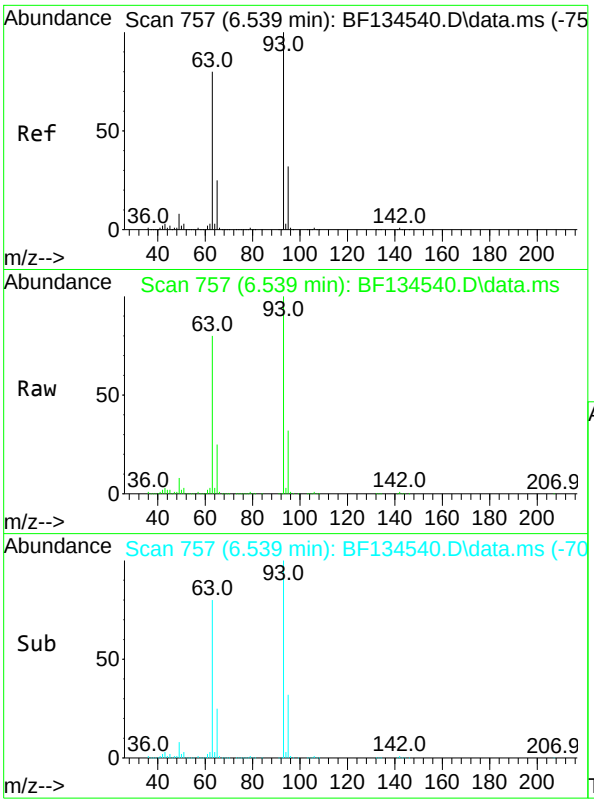


#10
Phenol
Concen: 40.508 ng
RT: 6.439 min Scan# 740
Delta R.T. 0.000 min
Lab File: BF134540.D
Acq: 01 Aug 2023 10:12

Tgt Ion: 94 Resp: 715677

Ion	Ratio	Lower	Upper
94	100		
65	28.6	17.8	57.8
66	37.2	35.2	75.2



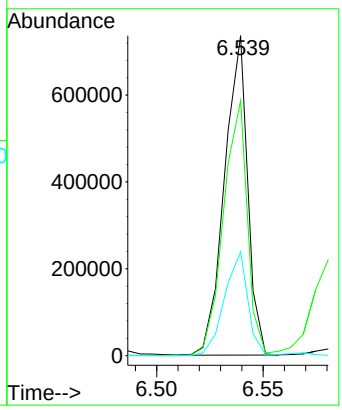


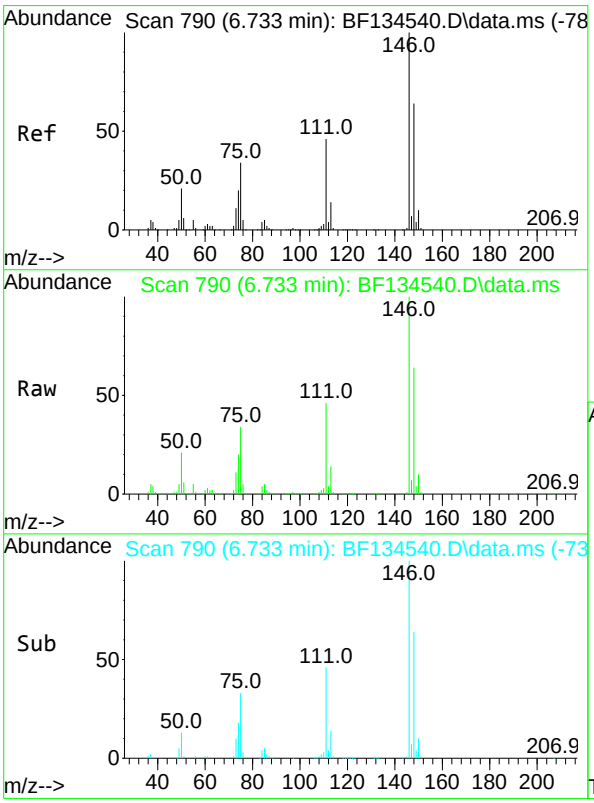
#11
bis(2-Chloroethyl)ether
Concen: 39.641 ng
RT: 6.539 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF134540.D
Acq: 01 Aug 2023 10:12

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion: 93 Resp: 556330

Ion	Ratio	Lower	Upper
93	100		
63	79.7	68.4	108.4
95	32.4	12.4	52.4

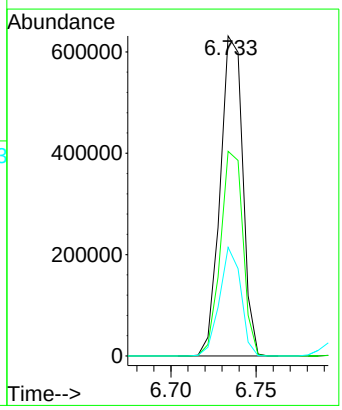


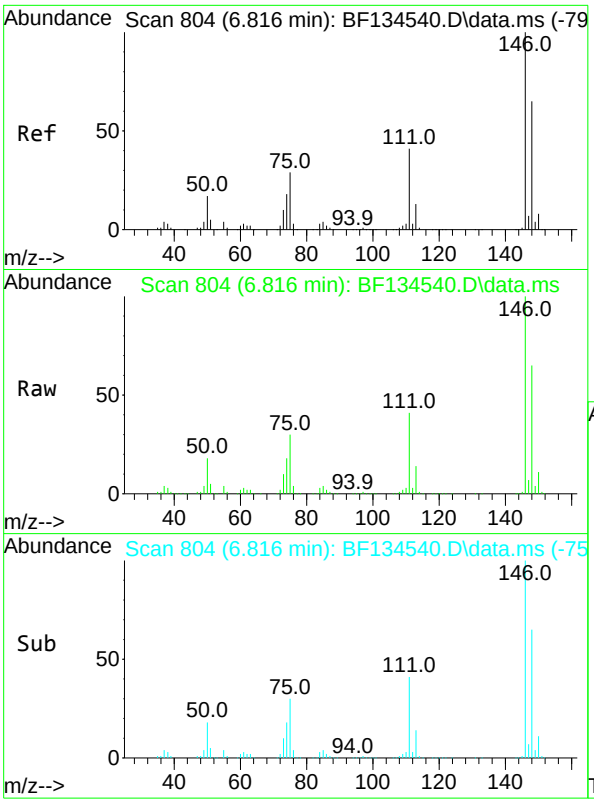


#12
1,3-Dichlorobenzene
Concen: 39.666 ng
RT: 6.733 min Scan# 790
Delta R.T. 0.000 min
Lab File: BF134540.D
Acq: 01 Aug 2023 10:12

Tgt Ion:146 Resp: 580589

Ion	Ratio	Lower	Upper
146	100		
148	64.0	49.7	74.5
75	34.0	29.5	44.3



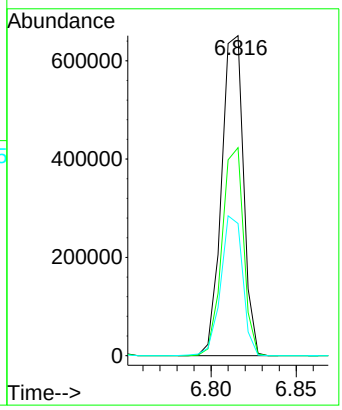


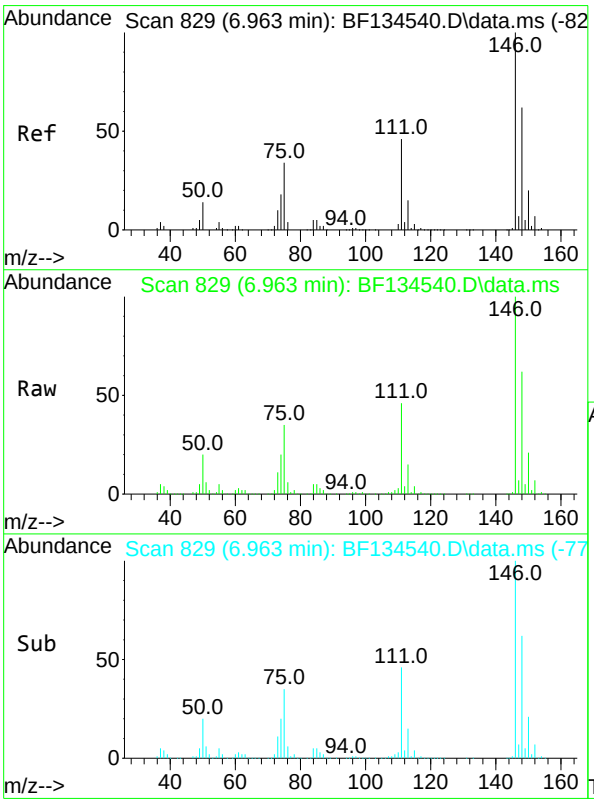
#13
1,4-Dichlorobenzene
Concen: 39.884 ng
RT: 6.816 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF134540.D
Acq: 01 Aug 2023 10:12

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:146 Resp: 585076

Ion	Ratio	Lower	Upper
146	100		
148	65.0	51.3	76.9
111	41.3	36.6	55.0

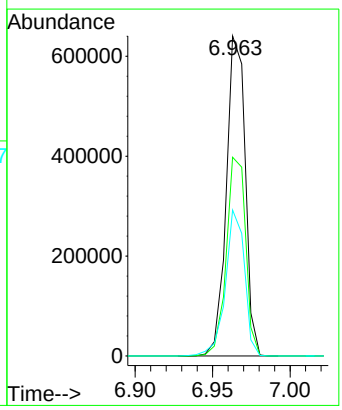


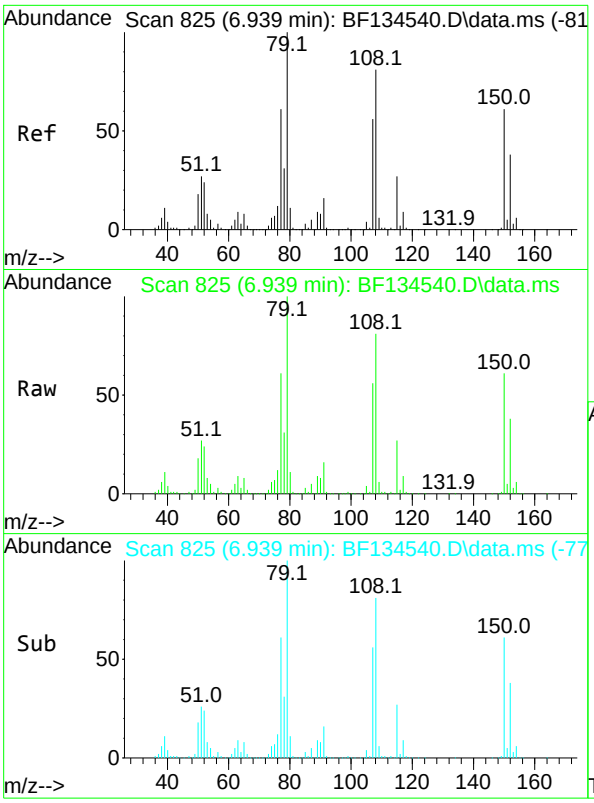


#14
1,2-Dichlorobenzene
Concen: 39.711 ng
RT: 6.963 min Scan# 829
Delta R.T. 0.000 min
Lab File: BF134540.D
Acq: 01 Aug 2023 10:12

Tgt Ion:146 Resp: 542772

Ion	Ratio	Lower	Upper
146	100		
148	62.1	51.2	76.8
111	45.6	39.9	59.9



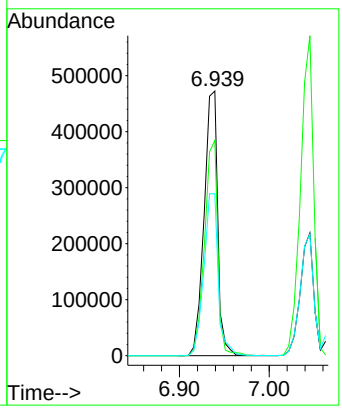


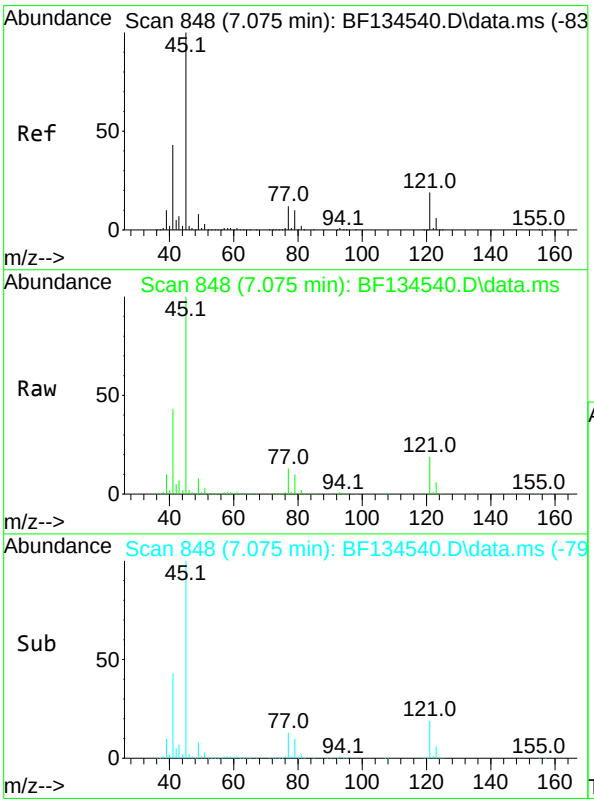
#15
Benzyl Alcohol
Concen: 40.289 ng
RT: 6.939 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF134540.D
Acq: 01 Aug 2023 10:12

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion: 79 Resp: 498277

Ion	Ratio	Lower	Upper
79	100		
108	81.3	56.3	84.5
77	61.2	50.6	76.0

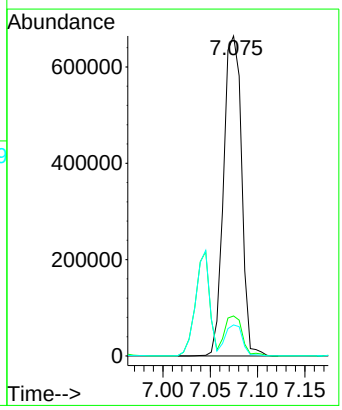


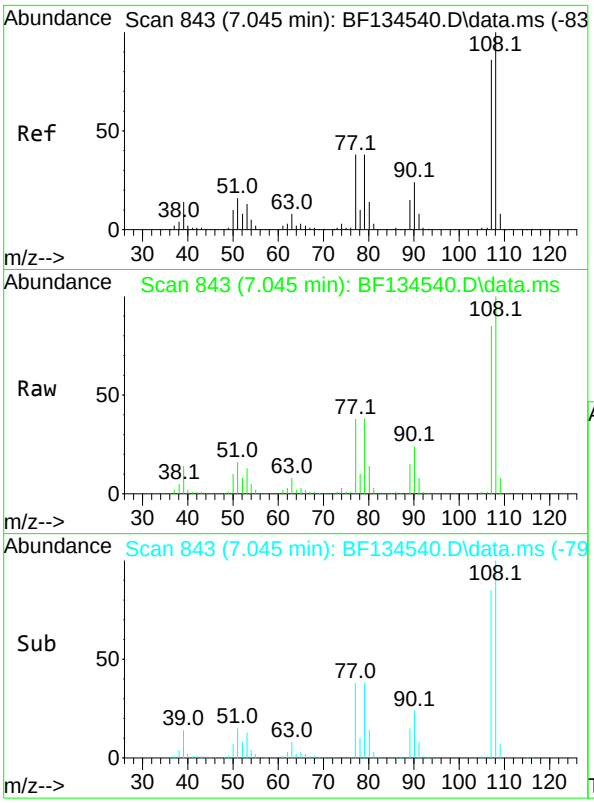


#16
2,2'-oxybis(1-Chloropropane)
Concen: 39.838 ng
RT: 7.075 min Scan# 848
Delta R.T. 0.000 min
Lab File: BF134540.D
Acq: 01 Aug 2023 10:12

Tgt Ion: 45 Resp: 875915

Ion	Ratio	Lower	Upper
45	100		
77	12.5	0.0	37.8
79	9.7	0.0	34.5



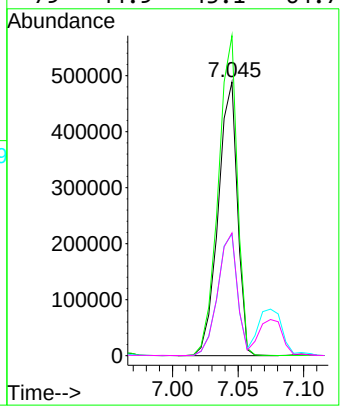


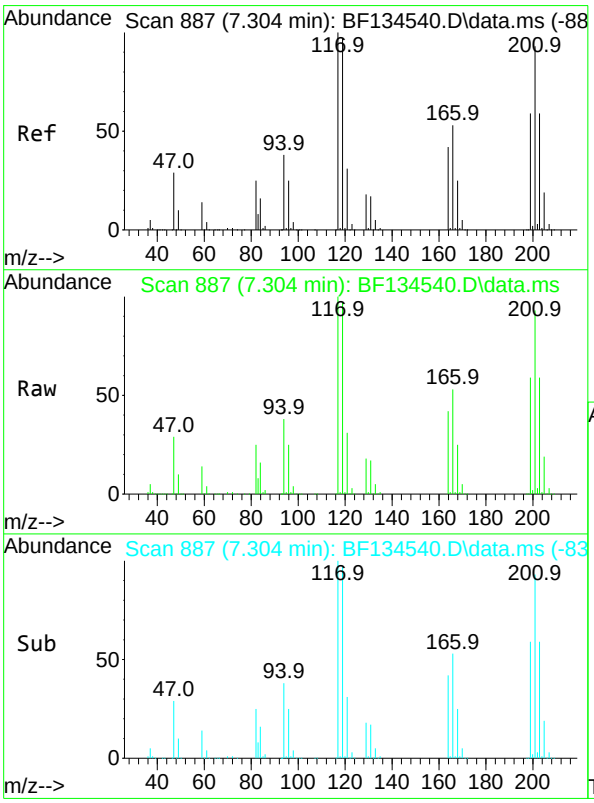
#17
2-Methylphenol
Concen: 39.882 ng
RT: 7.045 min Scan# 84
Delta R.T. 0.000 min
Lab File: BF134540.D
Acq: 01 Aug 2023 10:12

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:107 Resp: 498581

Ion	Ratio	Lower	Upper
107	100		
108	117.0	89.4	134.2
77	44.4	42.4	63.6
79	44.9	43.1	64.7

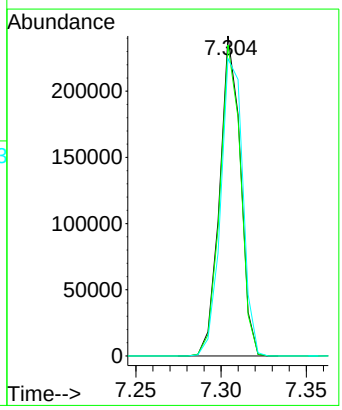


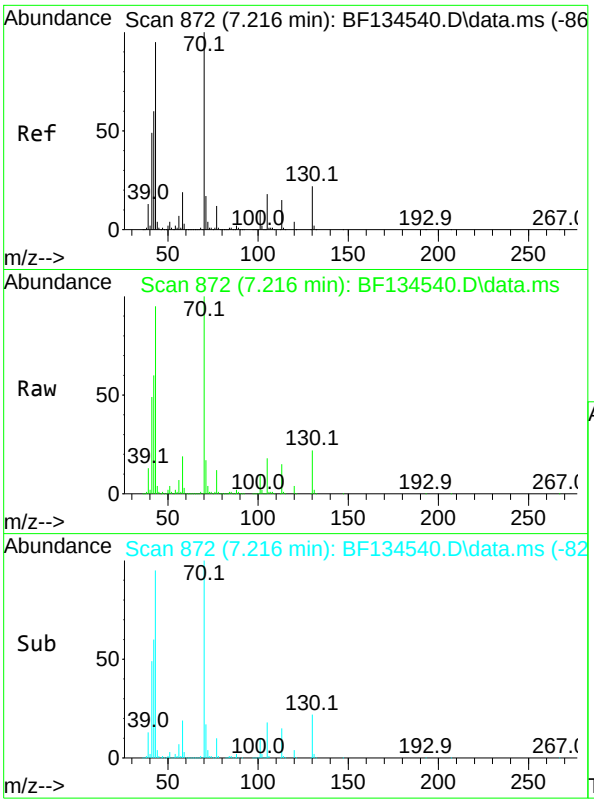


#18
Hexachloroethane
Concen: 39.730 ng
RT: 7.304 min Scan# 887
Delta R.T. 0.000 min
Lab File: BF134540.D
Acq: 01 Aug 2023 10:12

Tgt Ion:117 Resp: 204554

Ion	Ratio	Lower	Upper
117	100		
119	97.2	75.8	113.8
201	92.9	73.6	110.4



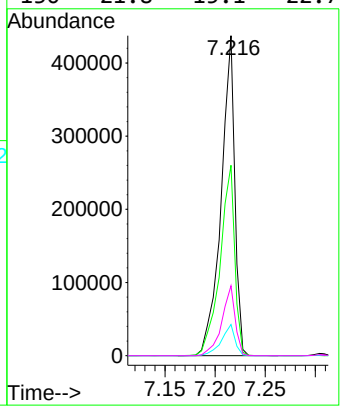


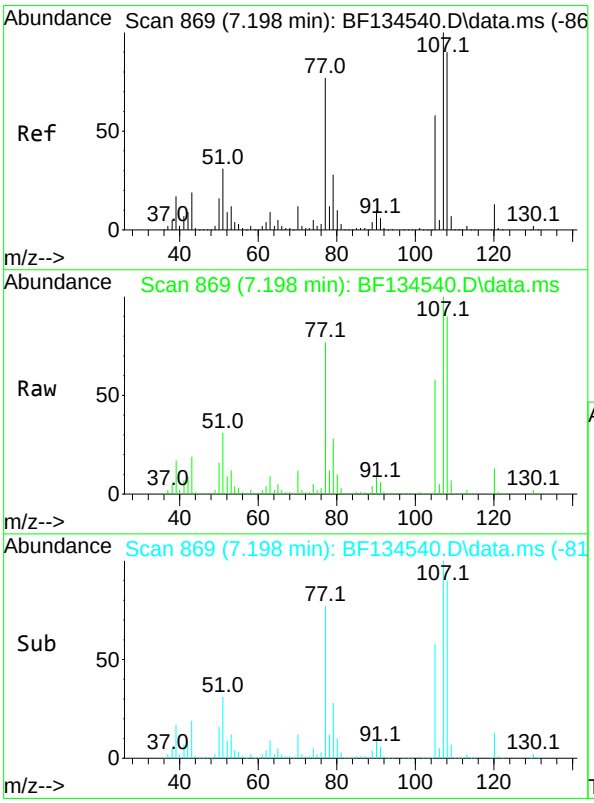
#19
n-Nitroso-di-n-propylamine
Concen: 38.830 ng
RT: 7.216 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF134540.D
Acq: 01 Aug 2023 10:12

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion: 70 Resp: 416778

Ion	Ratio	Lower	Upper
70	100		
42	59.5	54.7	82.1
101	9.8	8.2	12.2
130	21.8	15.1	22.7

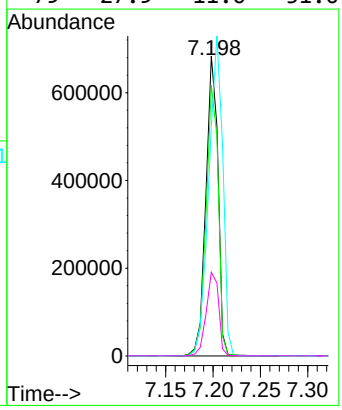


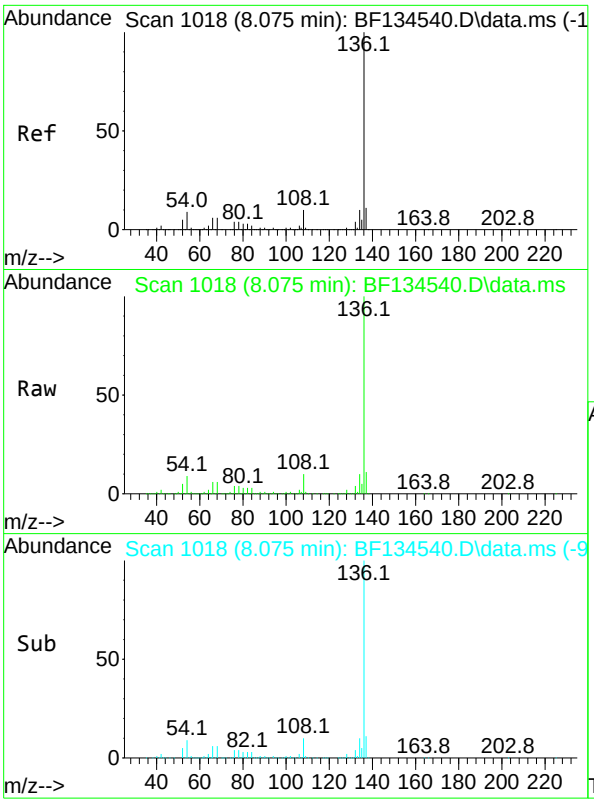


#20
3+4-Methylphenols
Concen: 40.305 ng
RT: 7.198 min Scan# 869
Delta R.T. 0.000 min
Lab File: BF134540.D
Acq: 01 Aug 2023 10:12

Tgt Ion:107 Resp: 607658

Ion	Ratio	Lower	Upper
107	100		
108	90.2	68.1	108.1
77	76.7	122.1	162.1#
79	27.9	11.0	51.0



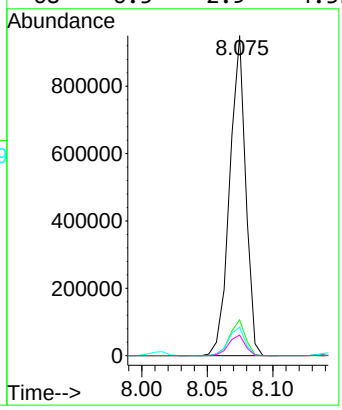


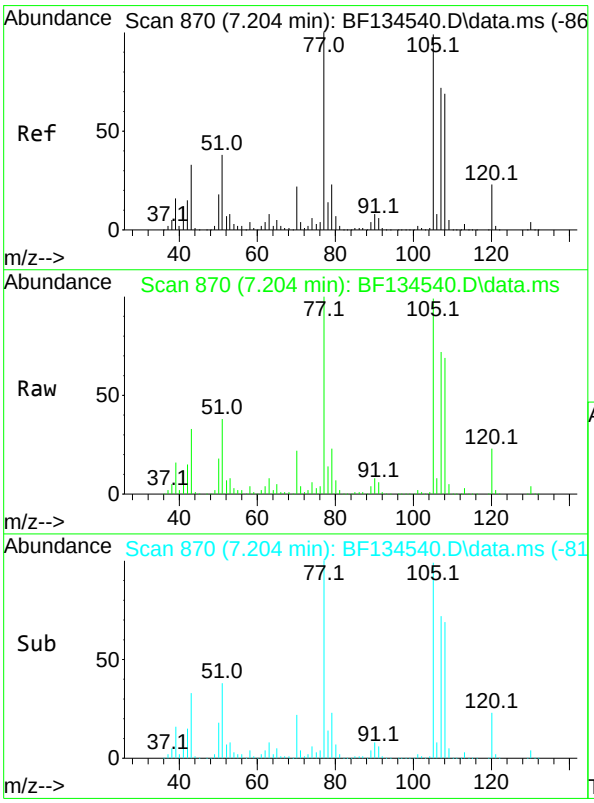
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.075 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134540.D
Acq: 01 Aug 2023 10:12

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:136 Resp: 805859

Ion	Ratio	Lower	Upper
136	100		
137	11.2	8.4	12.6
54	8.9	5.2	7.8#
68	6.5	2.9	4.3#

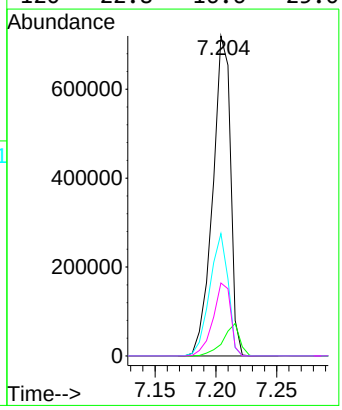


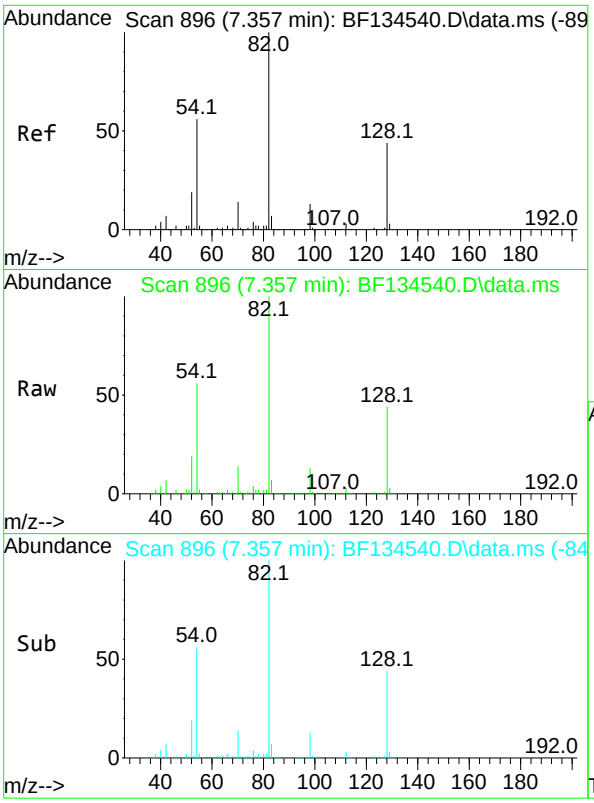


#22
Acetophenone
Concen: 39.409 ng
RT: 7.204 min Scan# 870
Delta R.T. 0.000 min
Lab File: BF134540.D
Acq: 01 Aug 2023 10:12

Tgt Ion:105 Resp: 733160

Ion	Ratio	Lower	Upper
105	100		
71	3.6	7.4	11.0#
51	38.2	36.4	54.6
120	22.8	16.6	25.0



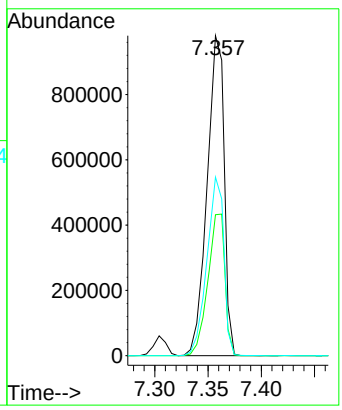


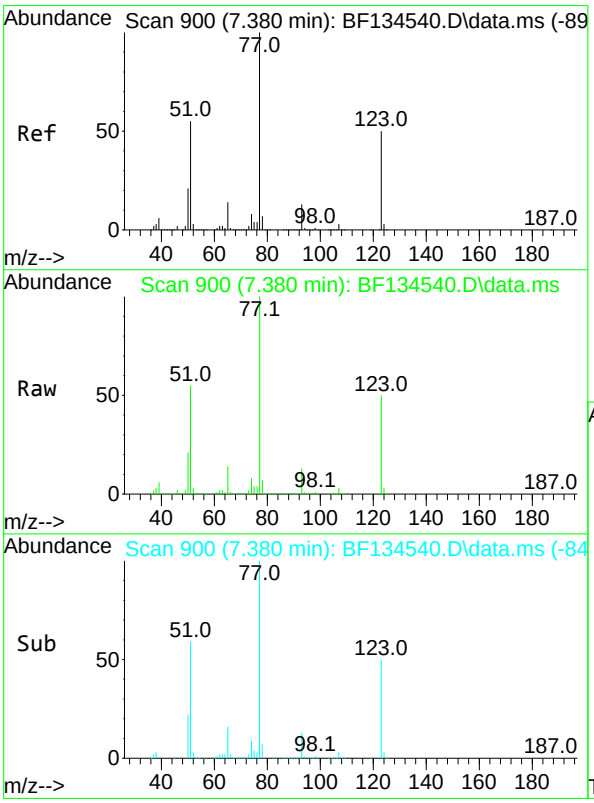
#23
Nitrobenzene-d5
Concen: 85.157 ng
RT: 7.357 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF134540.D
Acq: 01 Aug 2023 10:12

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion: 82 Resp: 1098118

Ion	Ratio	Lower	Upper
82	100		
128	44.0	34.3	51.5
54	55.8	43.8	65.6

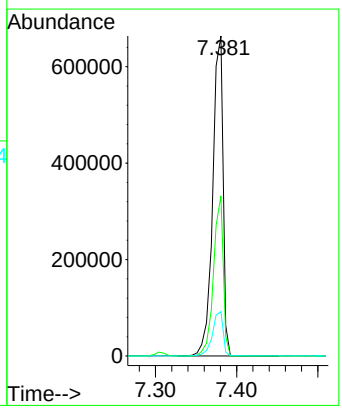


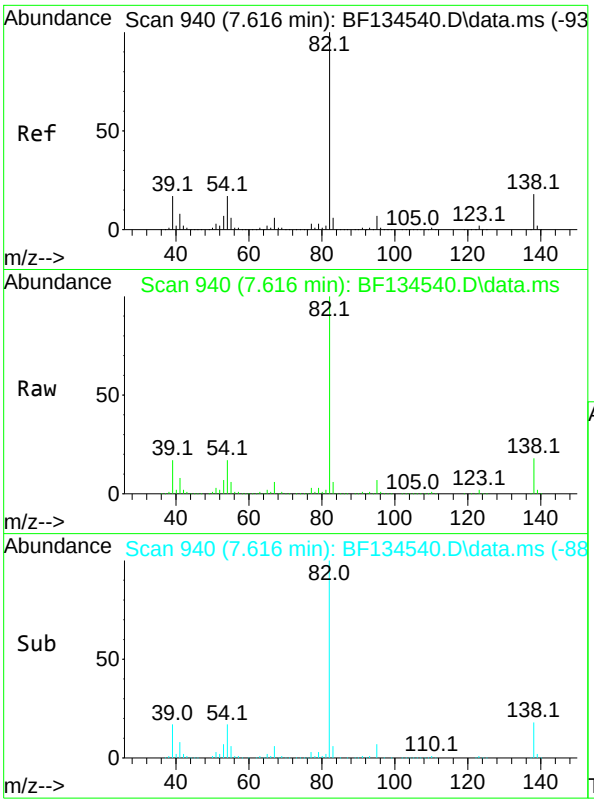


#24
Nitrobenzene
Concen: 42.120 ng
RT: 7.380 min Scan# 900
Delta R.T. 0.000 min
Lab File: BF134540.D
Acq: 01 Aug 2023 10:12

Tgt Ion: 77 Resp: 586788

Ion	Ratio	Lower	Upper
77	100		
123	50.0	35.5	53.3
65	13.9	11.9	17.9



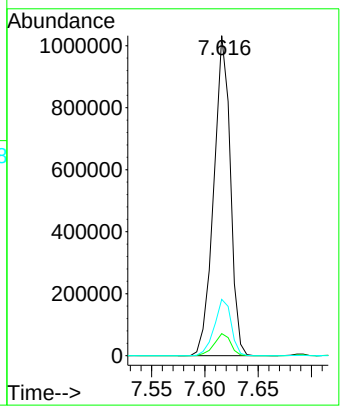


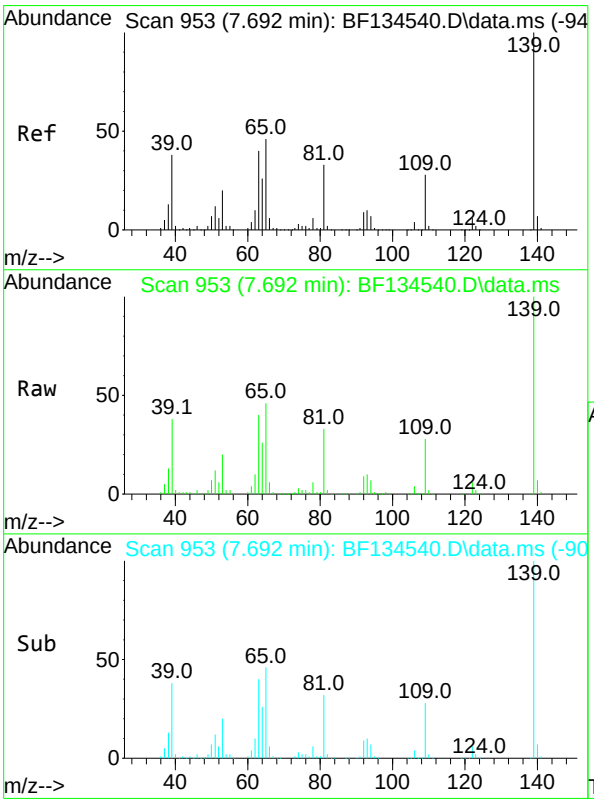
#25
Isophorone
Concen: 39.524 ng
RT: 7.616 min Scan# 94
Delta R.T. 0.000 min
Lab File: BF134540.D
Acq: 01 Aug 2023 10:12

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion: 82 Resp: 1111652

Ion	Ratio	Lower	Upper
82	100		
95	6.9	6.0	9.0
138	17.6	14.6	22.0

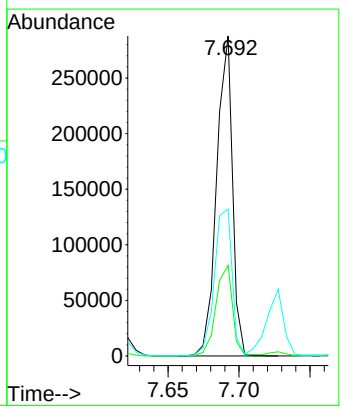


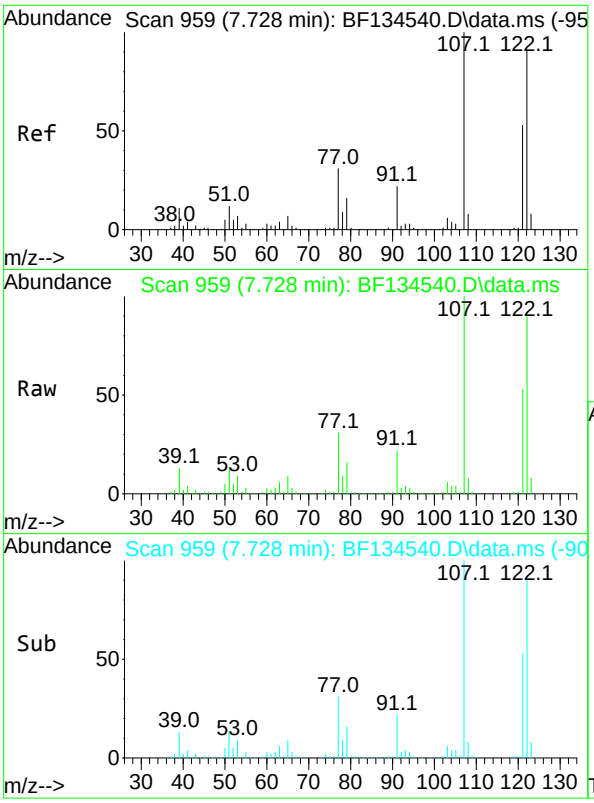


#26
2-Nitrophenol
Concen: 38.446 ng
RT: 7.692 min Scan# 953
Delta R.T. 0.000 min
Lab File: BF134540.D
Acq: 01 Aug 2023 10:12

Tgt Ion:139 Resp: 221633

Ion	Ratio	Lower	Upper
139	100		
109	28.3	29.8	44.6#
65	45.9	45.4	68.2



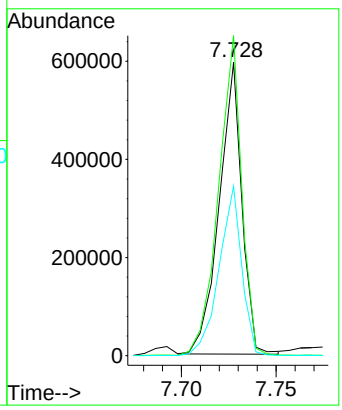


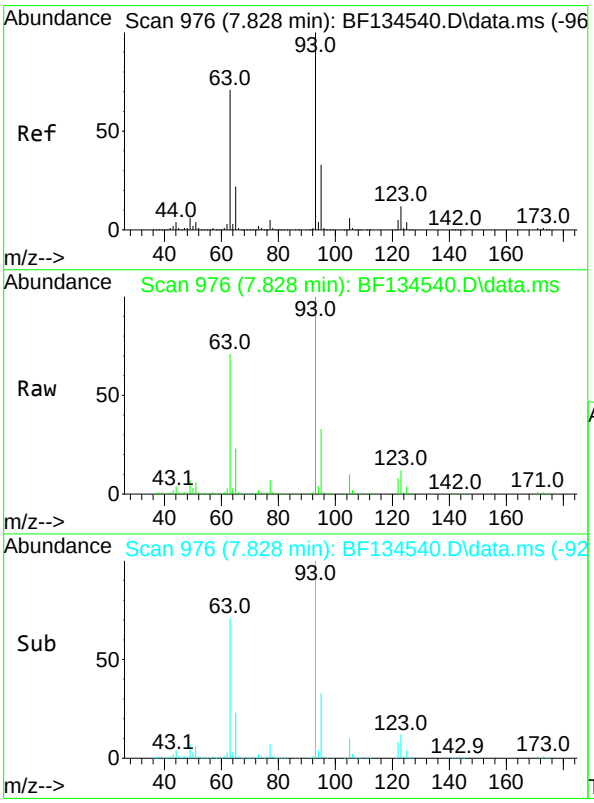
#27
2,4-Dimethylphenol
Concen: 39.392 ng
RT: 7.728 min Scan# 9
Delta R.T. -0.000 min
Lab File: BF134540.D
Acq: 01 Aug 2023 10:12

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:122 Resp: 494357

Ion	Ratio	Lower	Upper
122	100		
107	109.1	106.7	160.1
121	57.8	49.0	73.6

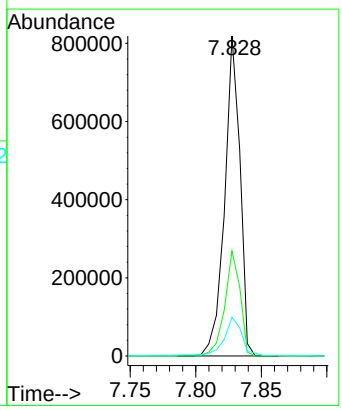


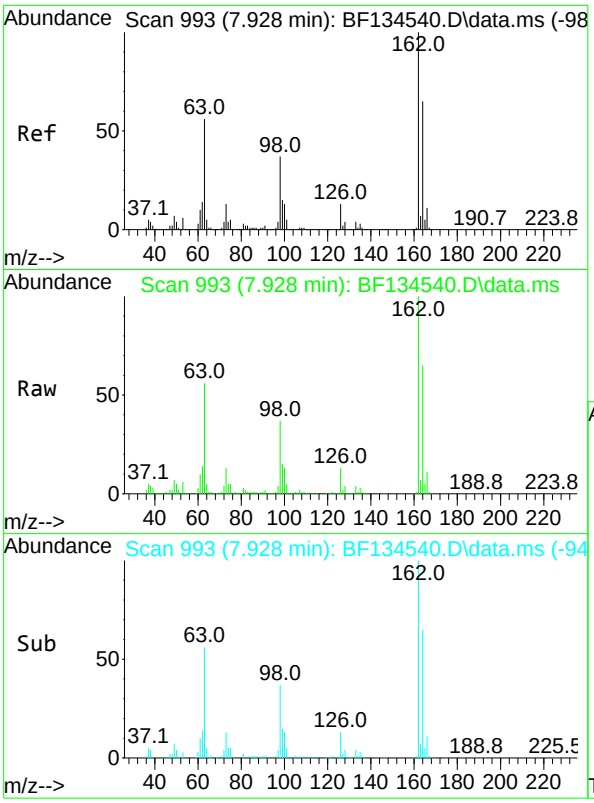


#28
bis(2-Chloroethoxy)methane
Concen: 39.399 ng
RT: 7.828 min Scan# 976
Delta R.T. 0.000 min
Lab File: BF134540.D
Acq: 01 Aug 2023 10:12

Tgt Ion: 93 Resp: 662880

Ion	Ratio	Lower	Upper
93	100		
95	32.8	26.5	39.7
123	12.0	9.6	14.4



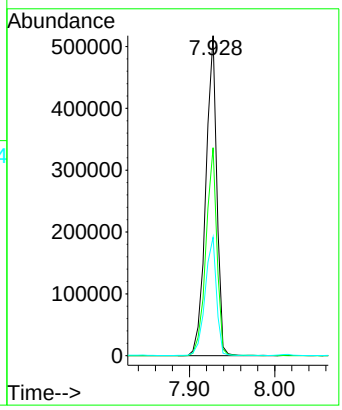


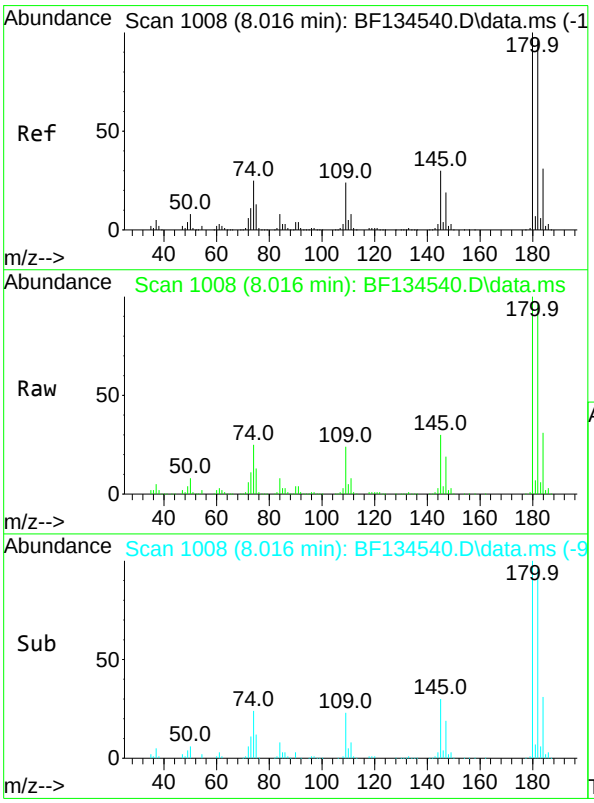
#29
2,4-Dichlorophenol
Concen: 40.896 ng
RT: 7.928 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF134540.D
Acq: 01 Aug 2023 10:12

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:162 Resp: 465809

Ion	Ratio	Lower	Upper
162	100		
164	65.0	42.2	82.2
98	37.0	15.5	55.5

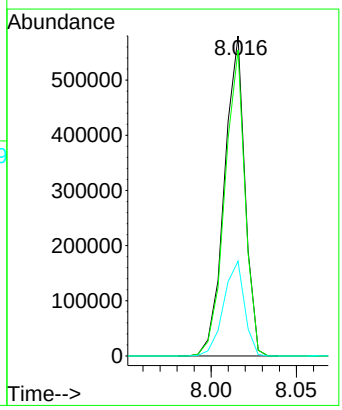


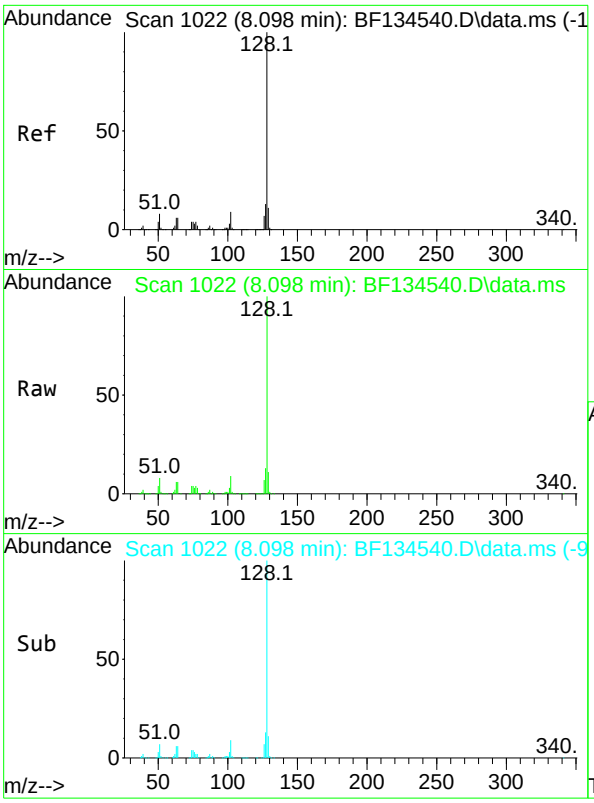


#30
1,2,4-Trichlorobenzene
Concen: 39.963 ng
RT: 8.016 min Scan# 1008
Delta R.T. 0.000 min
Lab File: BF134540.D
Acq: 01 Aug 2023 10:12

Tgt Ion:180 Resp: 485392

Ion	Ratio	Lower	Upper
180	100		
182	95.6	75.0	112.6
145	29.6	25.5	38.3



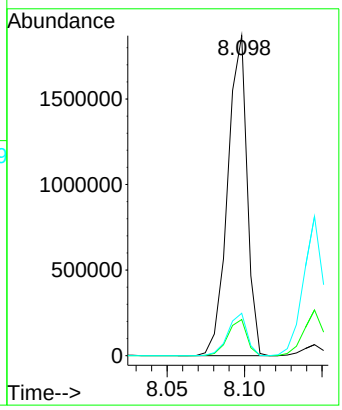


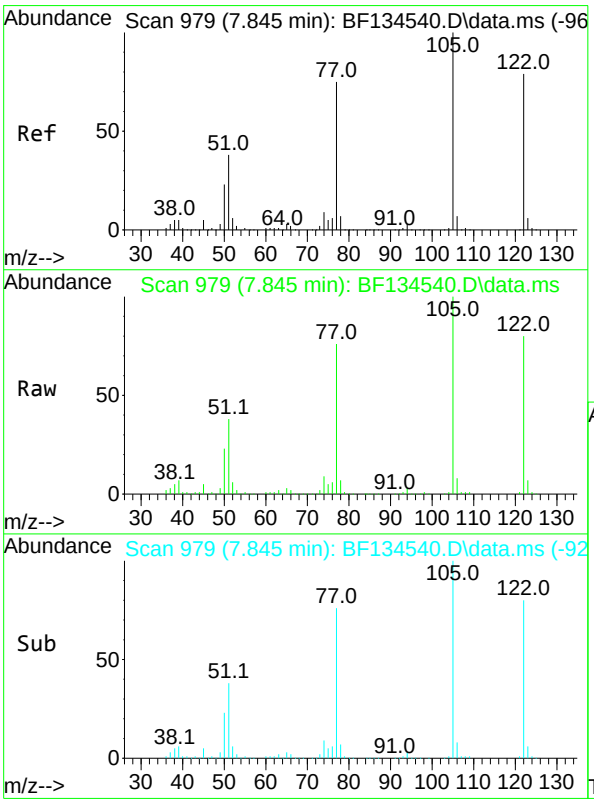
#31
Naphthalene
Concen: 40.196 ng
RT: 8.098 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134540.D
Acq: 01 Aug 2023 10:12

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:128 Resp: 1627958

Ion	Ratio	Lower	Upper
128	100		
129	11.3	8.4	12.6
127	13.3	10.7	16.1

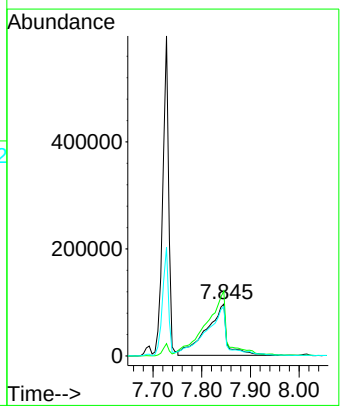


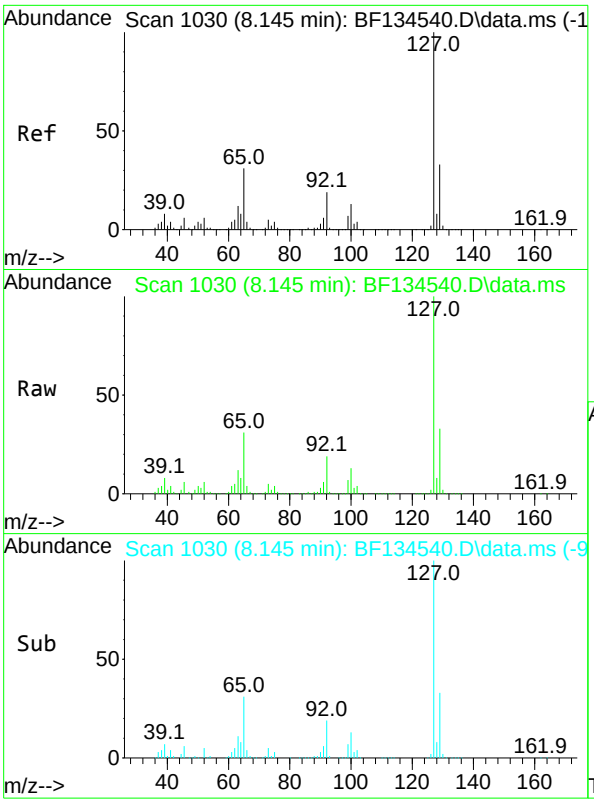


#32
Benzoic acid
Concen: 37.022 ng
RT: 7.845 min Scan# 979
Delta R.T. 0.000 min
Lab File: BF134540.D
Acq: 01 Aug 2023 10:12

Tgt Ion:122 Resp: 285456

Ion	Ratio	Lower	Upper
122	100		
105	125.2	87.5	127.5
77	95.1	71.4	111.4



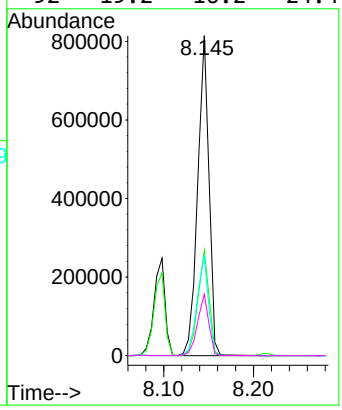


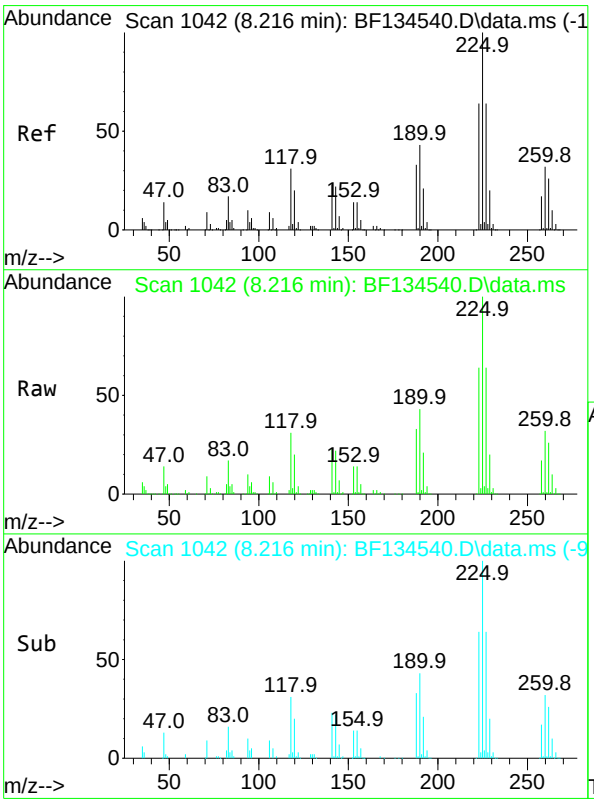
#33
4-Chloroaniline
Concen: 39.601 ng
RT: 8.145 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134540.D
Acq: 01 Aug 2023 10:12

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:127 Resp: 714644

Ion	Ratio	Lower	Upper
127	100		
129	32.8	25.6	38.4
65	31.0	25.4	38.0
92	19.2	16.2	24.4

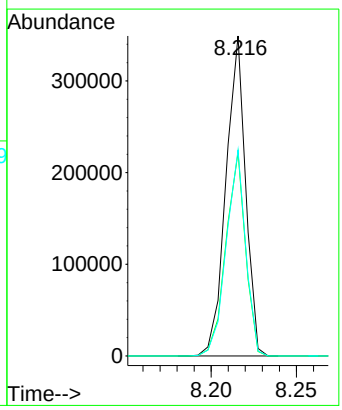


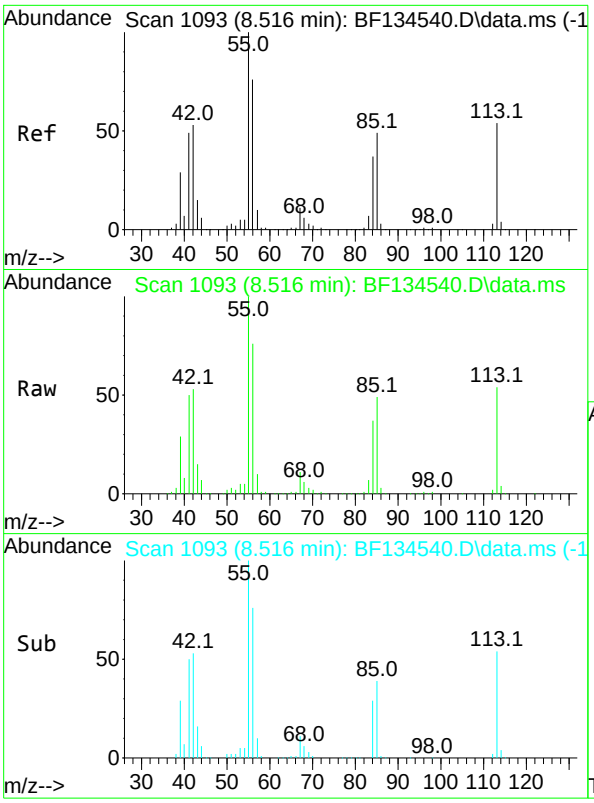


#34
Hexachlorobutadiene
Concen: 40.021 ng
RT: 8.216 min Scan# 1042
Delta R.T. 0.000 min
Lab File: BF134540.D
Acq: 01 Aug 2023 10:12

Tgt Ion:225 Resp: 280387

Ion	Ratio	Lower	Upper
225	100		
223	63.6	48.2	72.4
227	64.4	48.5	72.7



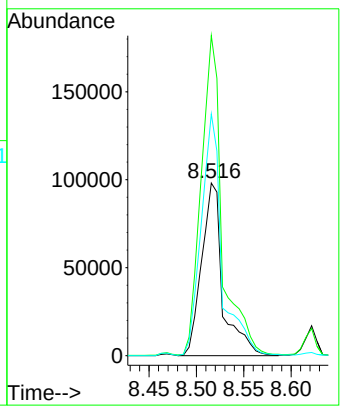


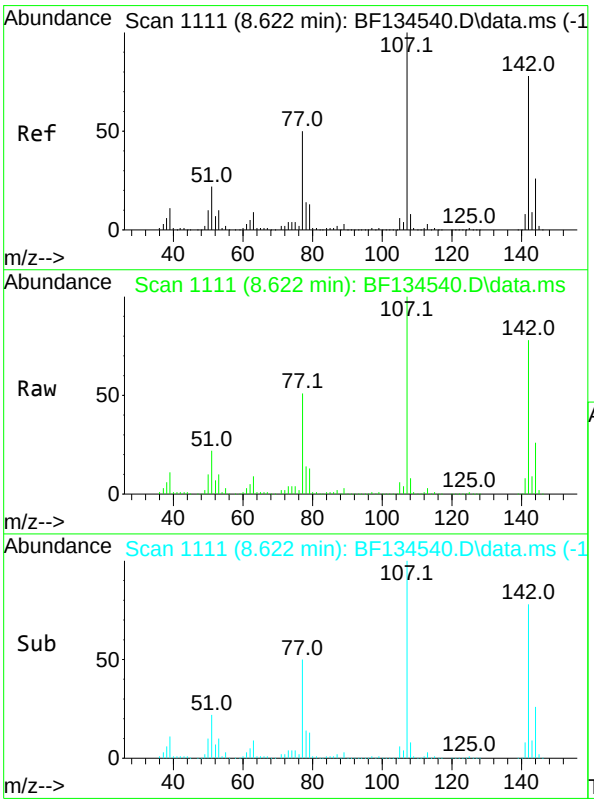
#35
Caprolactam
Concen: 41.548 ng
RT: 8.516 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134540.D
Acq: 01 Aug 2023 10:12

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:113 Resp: 152729

Ion	Ratio	Lower	Upper
113	100		
55	185.4	161.5	201.5
56	140.0	117.8	157.8

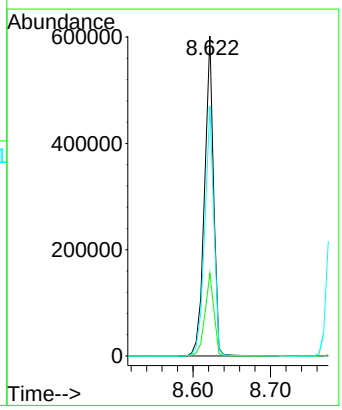


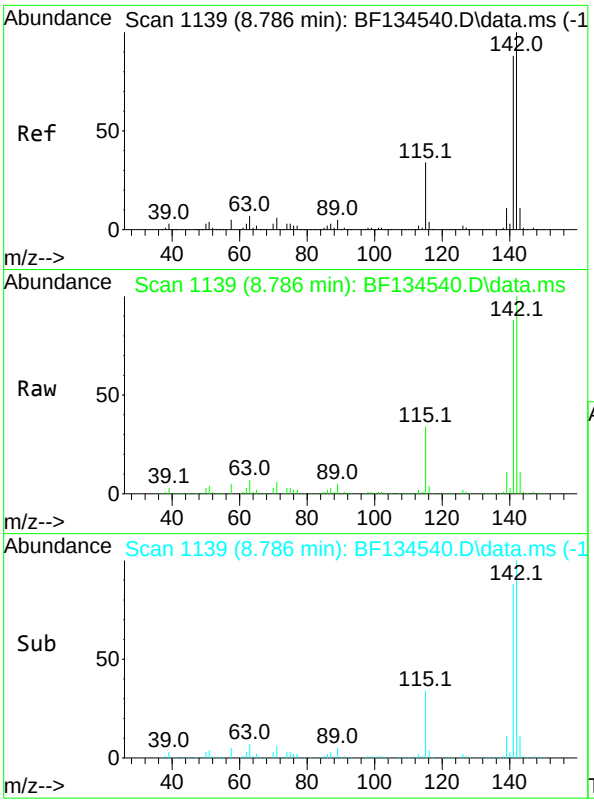


#36
4-Chloro-3-methylphenol
Concen: 40.328 ng
RT: 8.622 min Scan# 1111
Delta R.T. 0.000 min
Lab File: BF134540.D
Acq: 01 Aug 2023 10:12

Tgt Ion:107 Resp: 486454

Ion	Ratio	Lower	Upper
107	100		
144	25.8	19.6	29.4
142	78.1	57.7	86.5



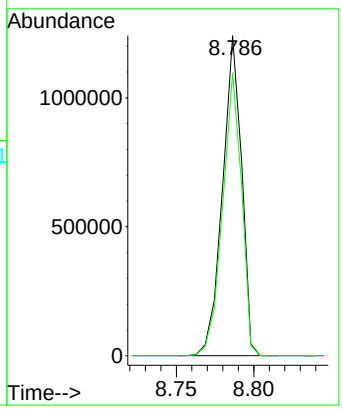


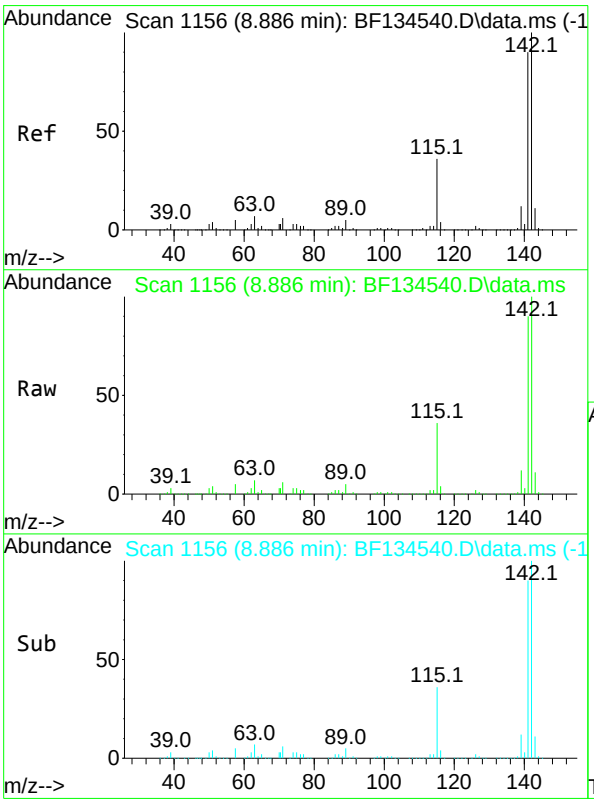
#37
2-Methylnaphthalene
Concen: 39.458 ng
RT: 8.786 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF134540.D
Acq: 01 Aug 2023 10:12

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:142 Resp: 1059281

Ion	Ratio	Lower	Upper
142	100		
141	88.4	70.8	106.2

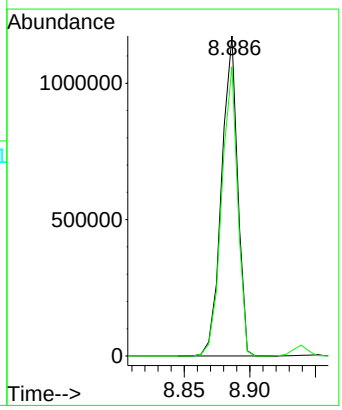


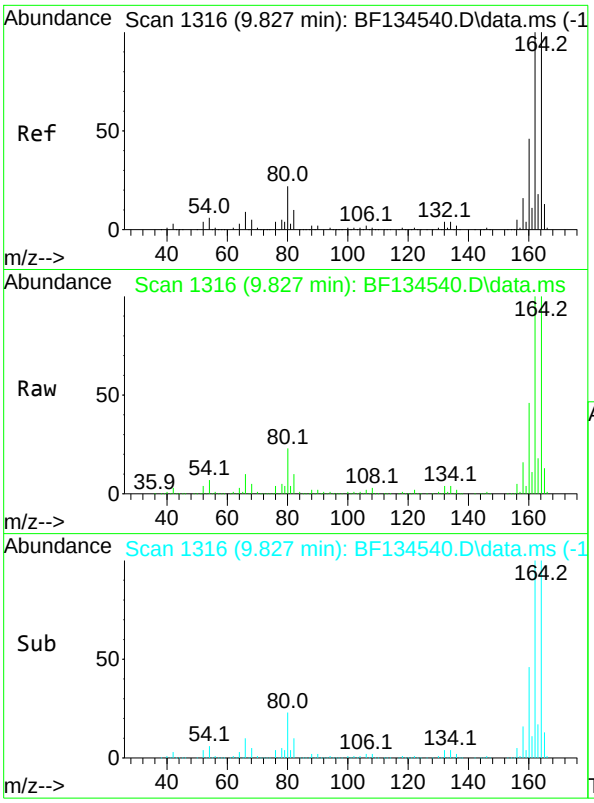


#38
1-Methylnaphthalene
Concen: 39.889 ng
RT: 8.886 min Scan# 1156
Delta R.T. 0.000 min
Lab File: BF134540.D
Acq: 01 Aug 2023 10:12

Tgt Ion:142 Resp: 995760

Ion	Ratio	Lower	Upper
142	100		
141	90.4	71.4	107.2



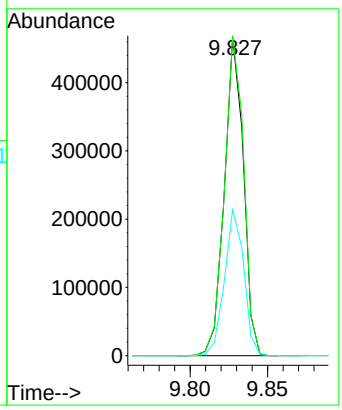


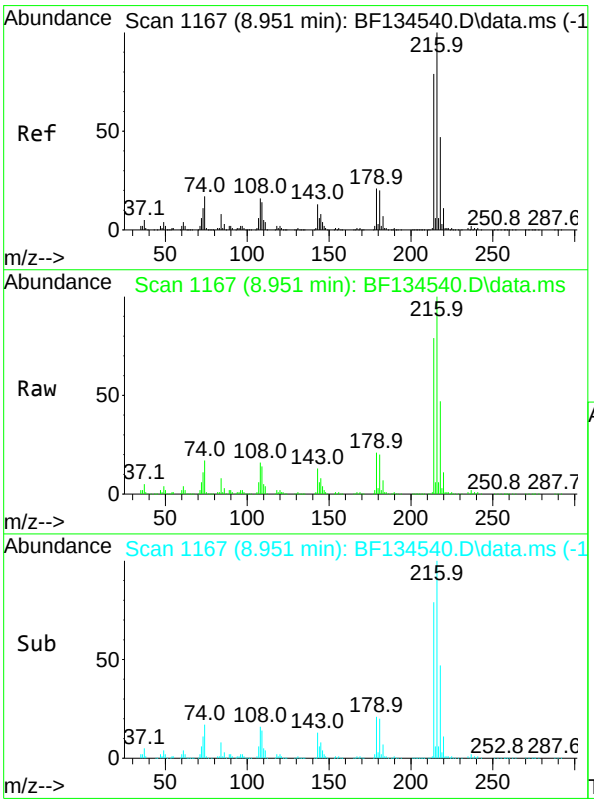
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.827 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134540.D
Acq: 01 Aug 2023 10:12

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:164 Resp: 399274

Ion	Ratio	Lower	Upper
164	100		
162	100.2	82.6	123.8
160	45.8	37.2	55.8

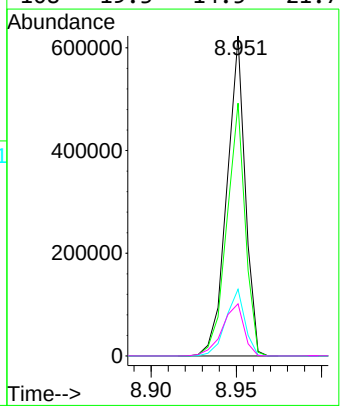


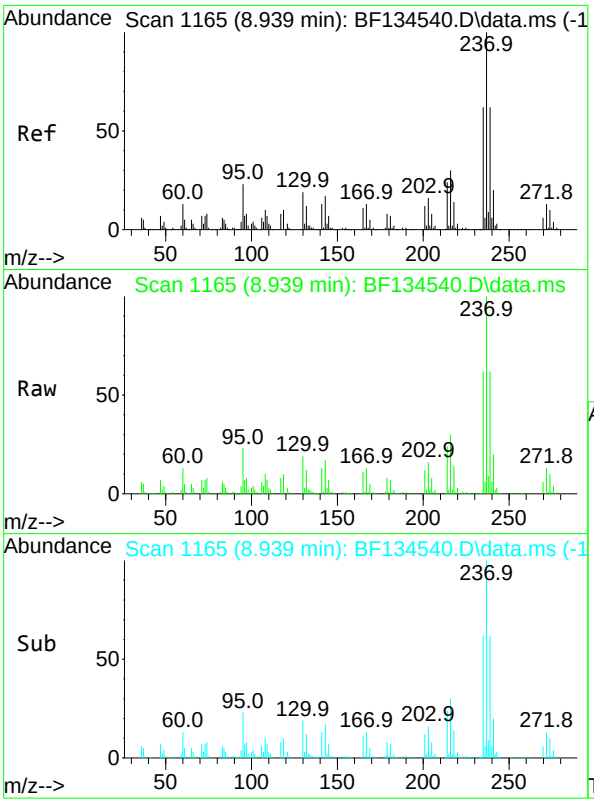


#40
1,2,4,5-Tetrachlorobenzene
Concen: 40.215 ng
RT: 8.951 min Scan# 1167
Delta R.T. 0.000 min
Lab File: BF134540.D
Acq: 01 Aug 2023 10:12

Tgt Ion:216 Resp: 466916

Ion	Ratio	Lower	Upper
216	100		
214	79.1	62.3	93.5
179	21.5	17.4	26.0
108	19.3	14.5	21.7



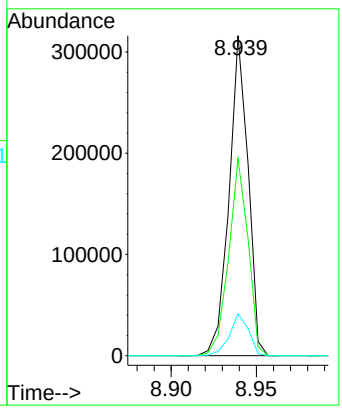


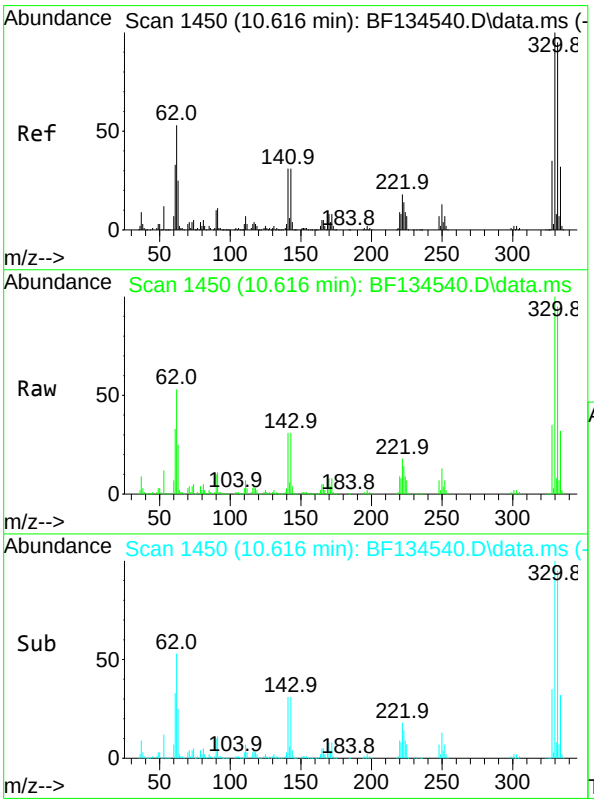
#41
Hexachlorocyclopentadiene
Concen: 43.242 ng
RT: 8.939 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF134540.D
Acq: 01 Aug 2023 10:12

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:237 Resp: 244145

Ion	Ratio	Lower	Upper
237	100		
235	61.6	37.0	77.0
272	13.1	0.0	32.7

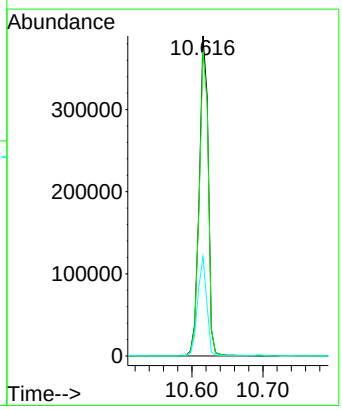


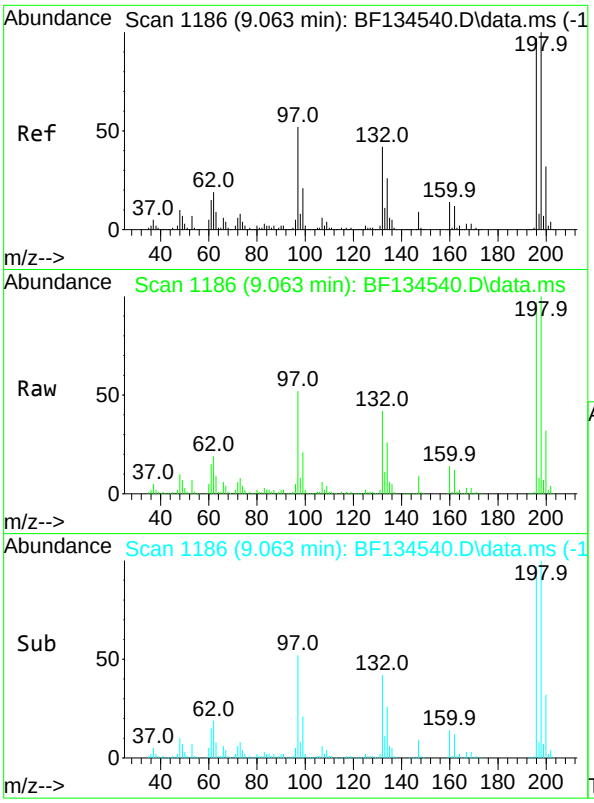


#42
2,4,6-Tribromophenol
Concen: 84.764 ng
RT: 10.616 min Scan# 1450
Delta R.T. 0.000 min
Lab File: BF134540.D
Acq: 01 Aug 2023 10:12

Tgt Ion:330 Resp: 345010

Ion	Ratio	Lower	Upper
330	100		
332	95.6	78.8	118.2
141	31.1	25.4	38.2



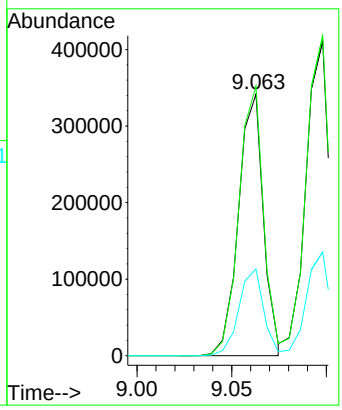


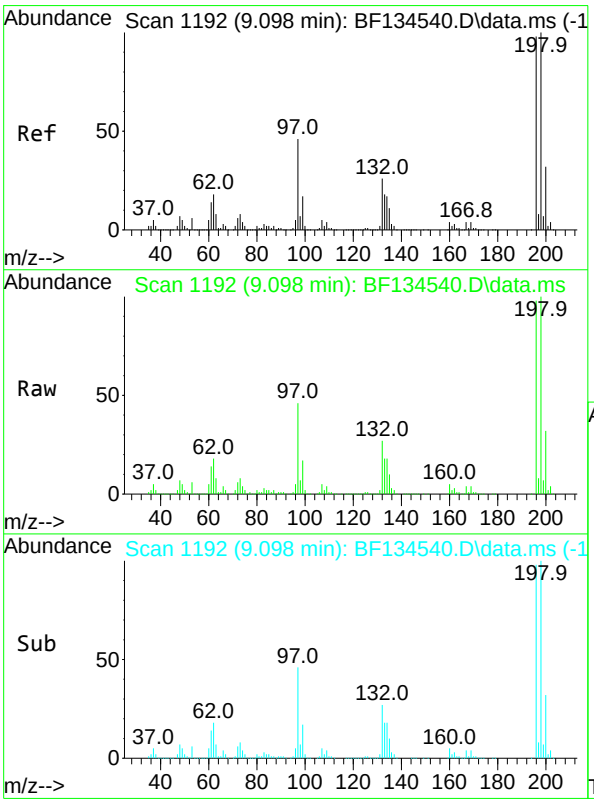
#43
2,4,6-Trichlorophenol
Concen: 41.115 ng
RT: 9.063 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF134540.D
Acq: 01 Aug 2023 10:12

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:196 Resp: 312414

Ion	Ratio	Lower	Upper
196	100		
198	103.1	77.4	116.2
200	33.2	25.4	38.2

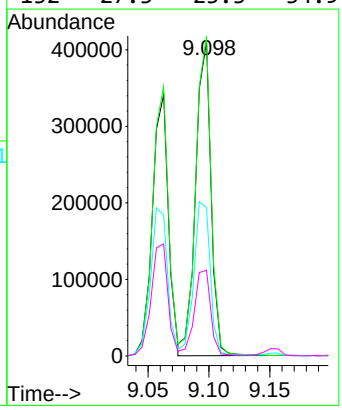


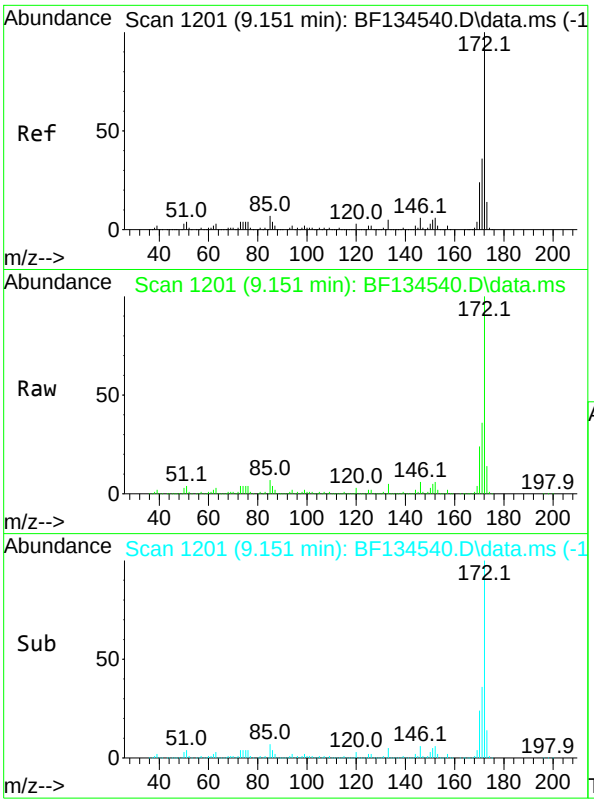


#44
2,4,5-Trichlorophenol
Concen: 41.466 ng
RT: 9.098 min Scan# 1192
Delta R.T. 0.000 min
Lab File: BF134540.D
Acq: 01 Aug 2023 10:12

Tgt Ion:196 Resp: 360112

Ion	Ratio	Lower	Upper
196	100		
198	101.7	73.0	109.4
97	47.2	40.8	61.2
132	27.3	23.3	34.9



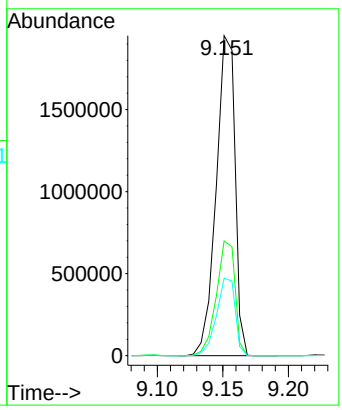


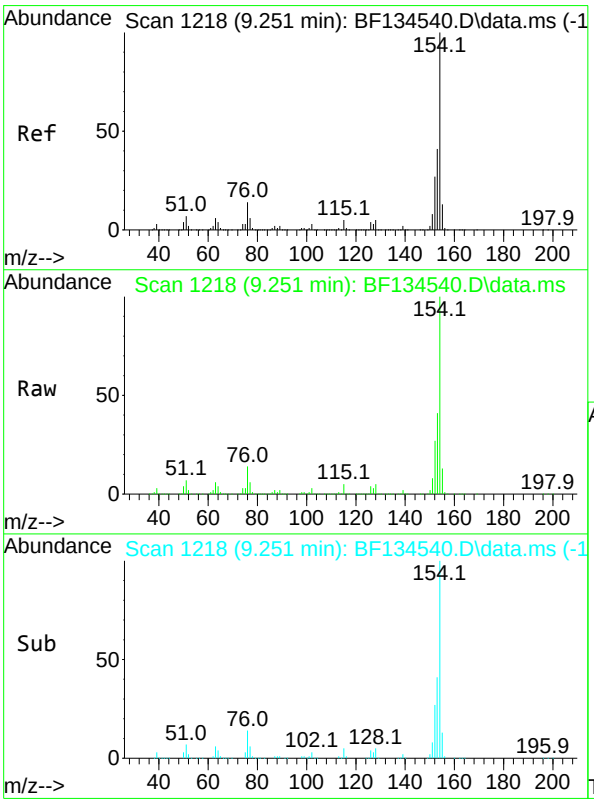
#45
2-Fluorobiphenyl
Concen: 81.157 ng
RT: 9.151 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF134540.D
Acq: 01 Aug 2023 10:12

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:172 Resp: 1948882

Ion	Ratio	Lower	Upper
172	100		
171	35.9	28.8	43.2
170	24.2	18.7	28.1

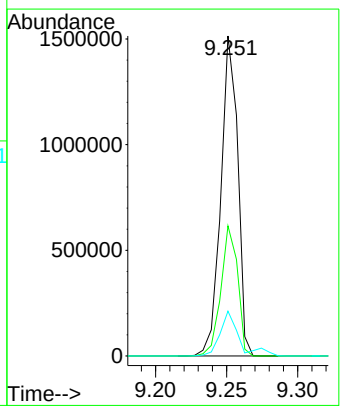


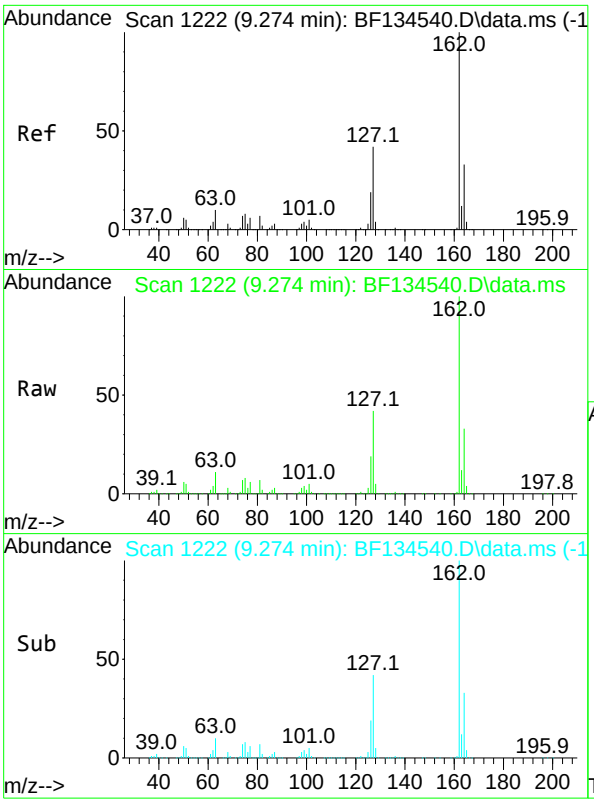


#46
1,1'-Biphenyl
Concen: 40.225 ng
RT: 9.251 min Scan# 1218
Delta R.T. 0.000 min
Lab File: BF134540.D
Acq: 01 Aug 2023 10:12

Tgt Ion:154 Resp: 1248943

Ion	Ratio	Lower	Upper
154	100		
153	40.7	20.8	60.8
76	14.0	0.0	30.2



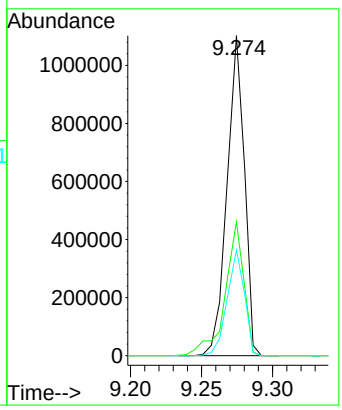


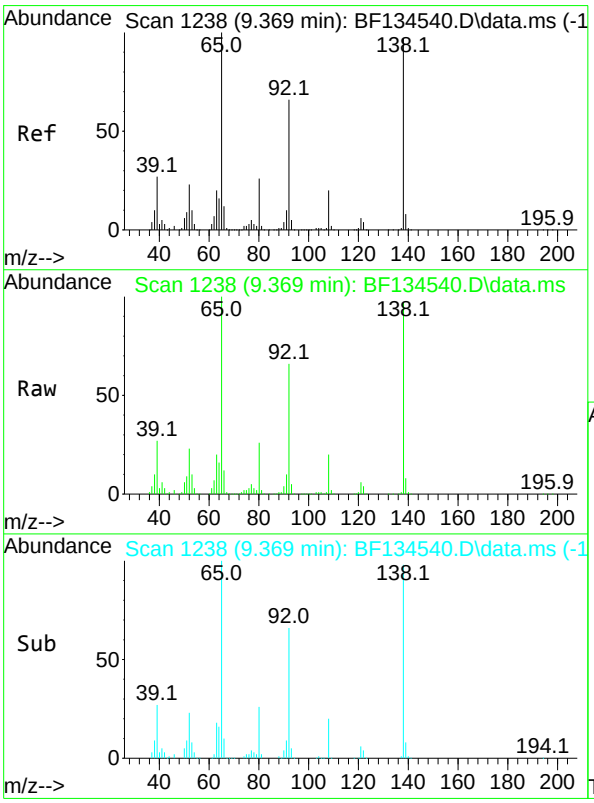
#47
2-Chloronaphthalene
Concen: 40.257 ng
RT: 9.274 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134540.D
Acq: 01 Aug 2023 10:12

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:162 Resp: 936578

Ion	Ratio	Lower	Upper
162	100		
127	41.8	34.0	51.0
164	33.0	25.7	38.5

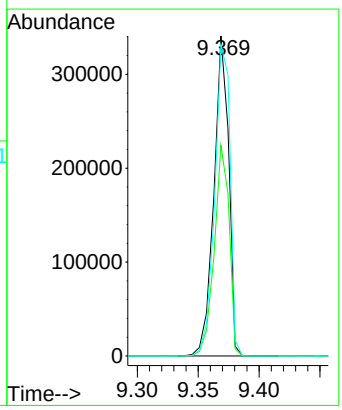


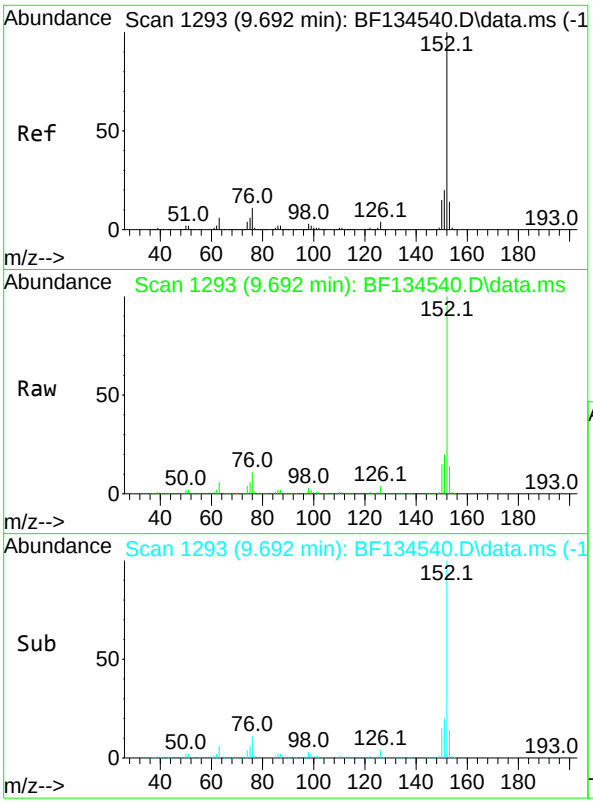


#48
2-Nitroaniline
Concen: 40.377 ng
RT: 9.369 min Scan# 1238
Delta R.T. -0.000 min
Lab File: BF134540.D
Acq: 01 Aug 2023 10:12

Tgt Ion: 65 Resp: 288955

Ion	Ratio	Lower	Upper
65	100		
92	65.9	50.7	76.1
138	97.3	78.2	117.4



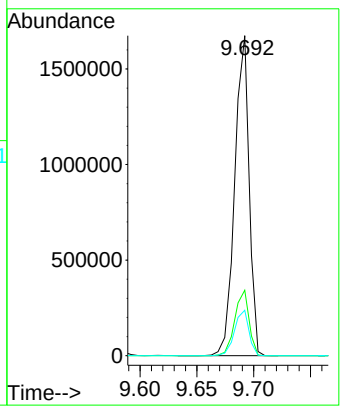


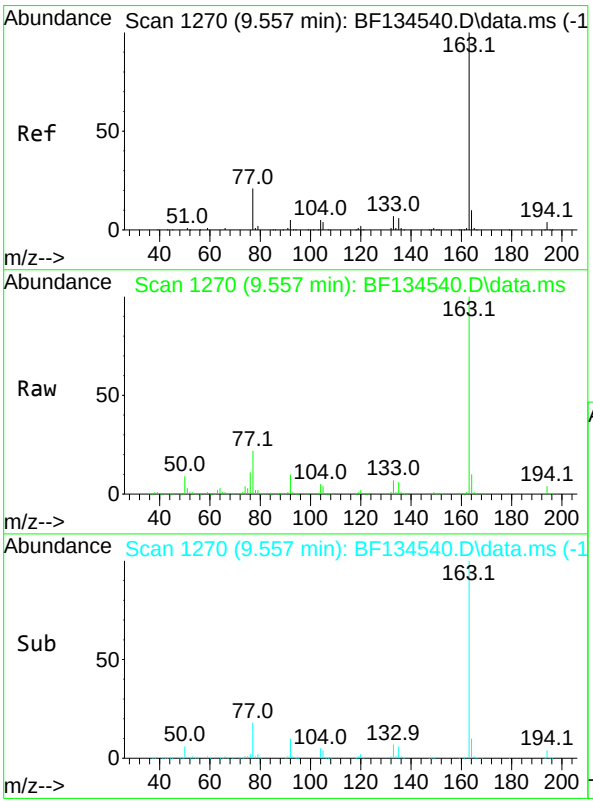
#49
Acenaphthylene
Concen: 40.296 ng
RT: 9.692 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134540.D
Acq: 01 Aug 2023 10:12

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:152 Resp: 1473608

Ion	Ratio	Lower	Upper
152	100		
151	20.5	16.4	24.6
153	14.2	10.9	16.3

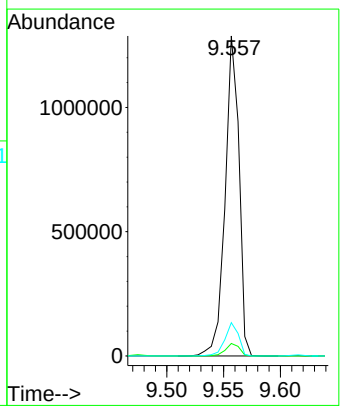


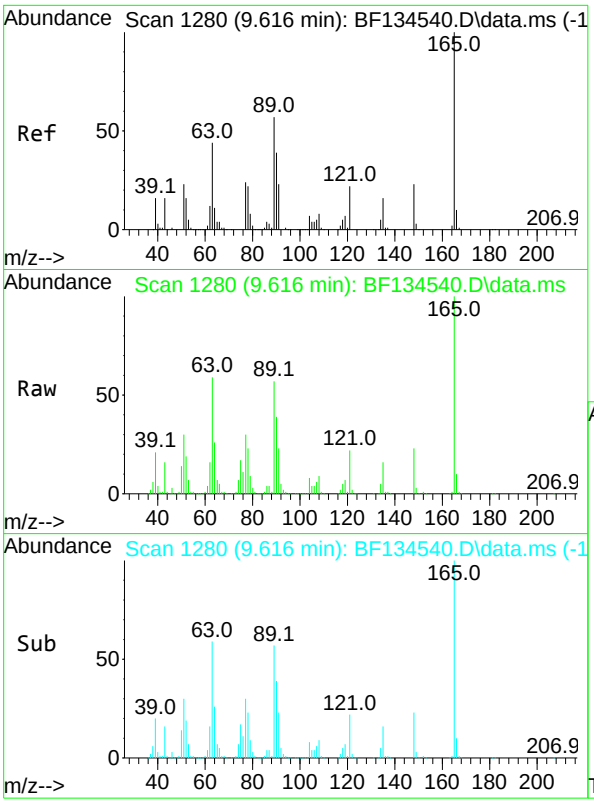


#50
Dimethylphthalate
Concen: 40.249 ng
RT: 9.557 min Scan# 1270
Delta R.T. -0.000 min
Lab File: BF134540.D
Acq: 01 Aug 2023 10:12

Tgt Ion:163 Resp: 1095298

Ion	Ratio	Lower	Upper
163	100		
194	3.9	3.3	4.9
164	10.4	7.5	11.3



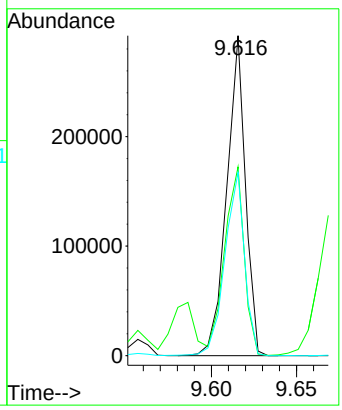


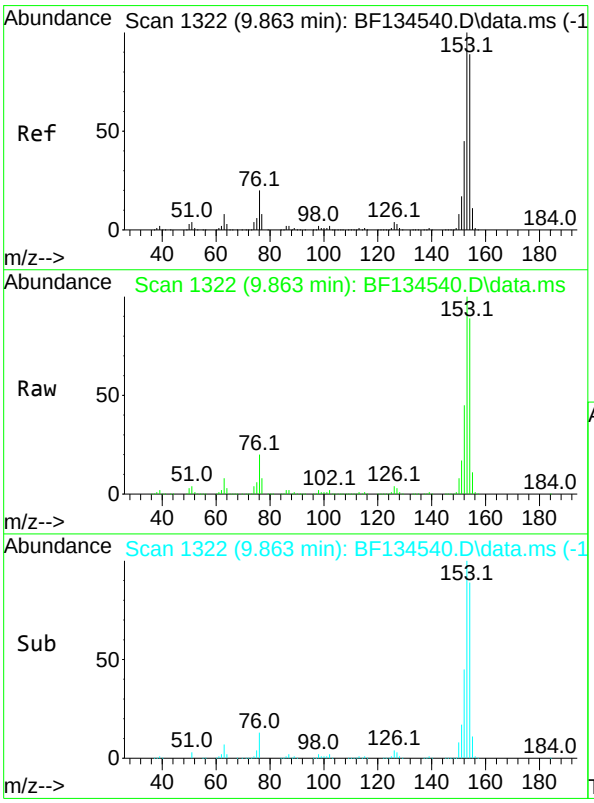
#51
2,6-Dinitrotoluene
Concen: 40.603 ng
RT: 9.616 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF134540.D
Acq: 01 Aug 2023 10:12

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:165 Resp: 224133

Ion	Ratio	Lower	Upper
165	100		
63	59.0	57.8	86.6
89	57.3	51.8	77.8

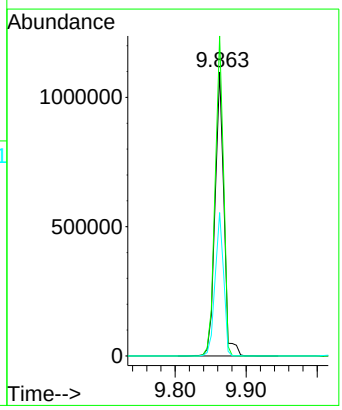


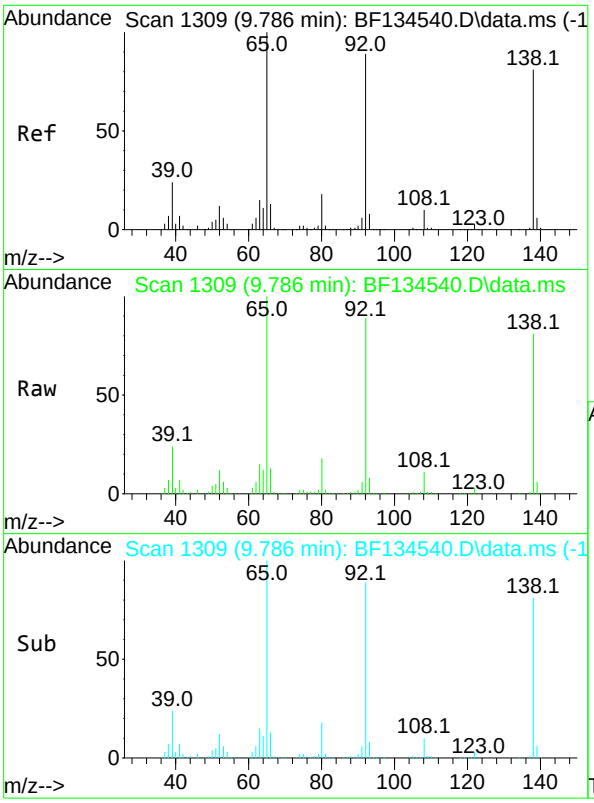


#52
Acenaphthene
Concen: 40.151 ng
RT: 9.863 min Scan# 1322
Delta R.T. -0.000 min
Lab File: BF134540.D
Acq: 01 Aug 2023 10:12

Tgt Ion:154 Resp: 951526

Ion	Ratio	Lower	Upper
154	100		
153	112.7	90.0	135.0
152	50.5	42.4	63.6



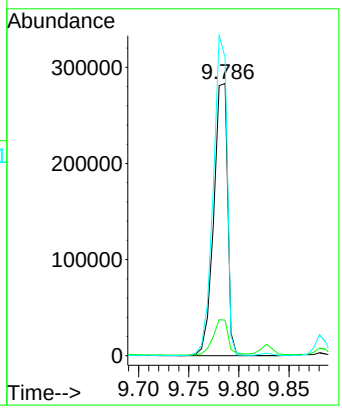


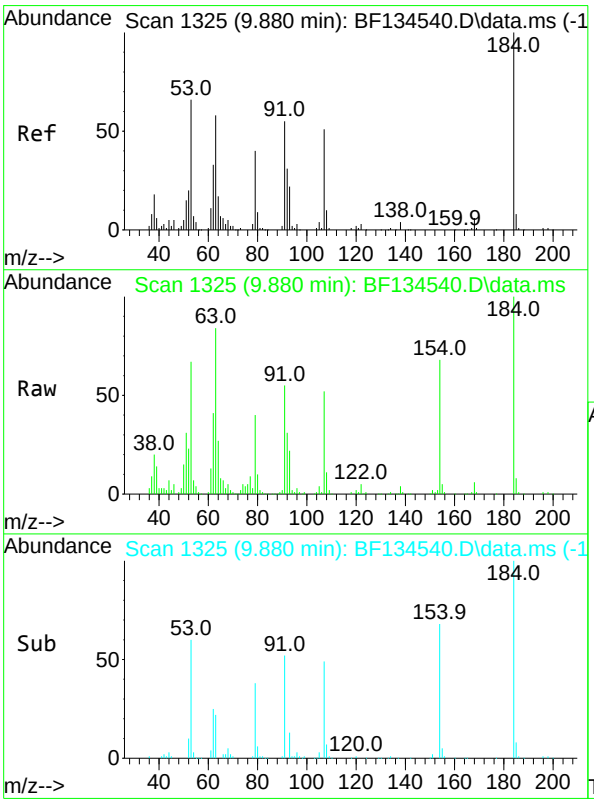
#53
3-Nitroaniline
Concen: 45.015 ng
RT: 9.786 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134540.D
Acq: 01 Aug 2023 10:12

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:138 Resp: 273044

Ion	Ratio	Lower	Upper
138	100		
108	13.1	9.3	13.9
92	109.5	86.6	129.8

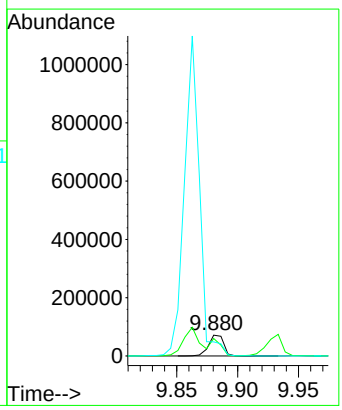


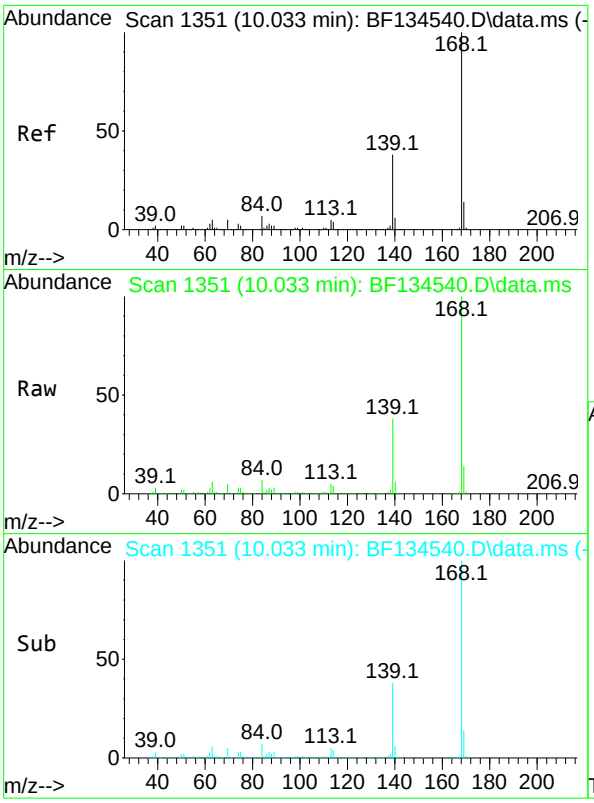


#54
2,4-Dinitrophenol
Concen: 37.899 ng
RT: 9.880 min Scan# 1325
Delta R.T. 0.000 min
Lab File: BF134540.D
Acq: 01 Aug 2023 10:12

Tgt Ion:184 Resp: 61533

Ion	Ratio	Lower	Upper
184	100		
63	83.6	57.1	85.7
154	67.8	59.1	88.7



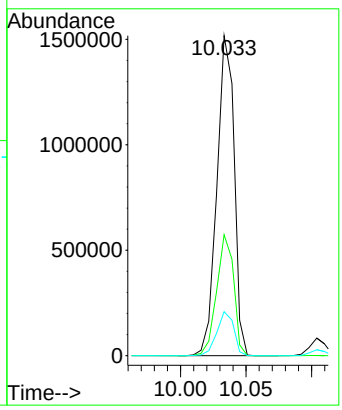


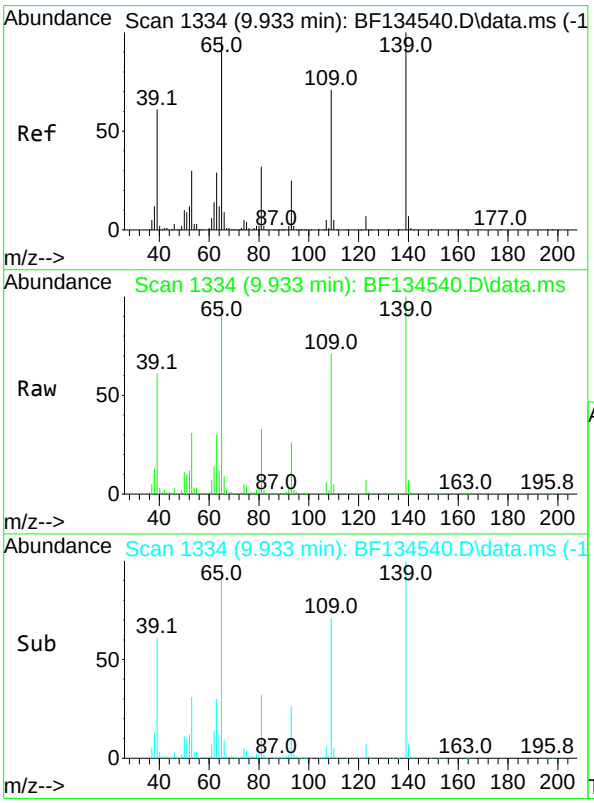
#55
Dibenzofuran
Concen: 41.124 ng
RT: 10.033 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134540.D
Acq: 01 Aug 2023 10:12

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:168 Resp: 1387391

Ion	Ratio	Lower	Upper
168	100		
139	37.8	33.4	50.2
169	13.7	10.6	15.8

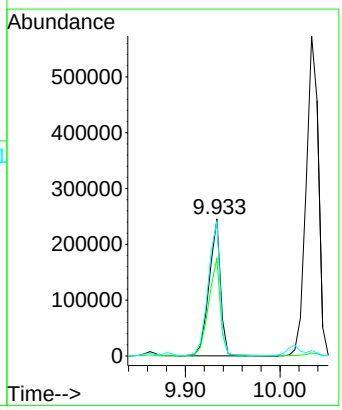


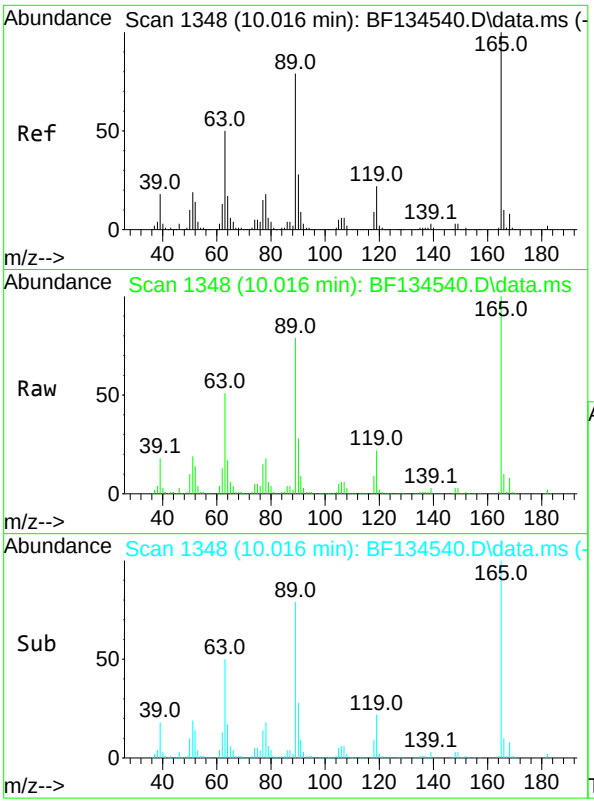


#56
4-Nitrophenol
Concen: 41.650 ng
RT: 9.933 min Scan# 1334
Delta R.T. 0.000 min
Lab File: BF134540.D
Acq: 01 Aug 2023 10:12

Tgt Ion:139 Resp: 206620

Ion	Ratio	Lower	Upper
139	100		
109	71.1	76.9	116.9#
65	97.9	98.5	138.5#



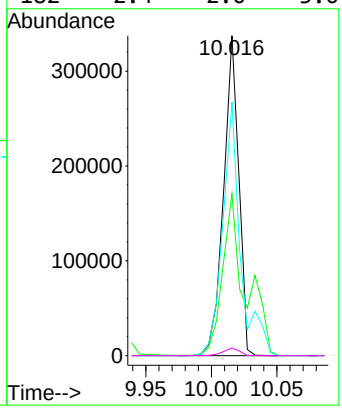


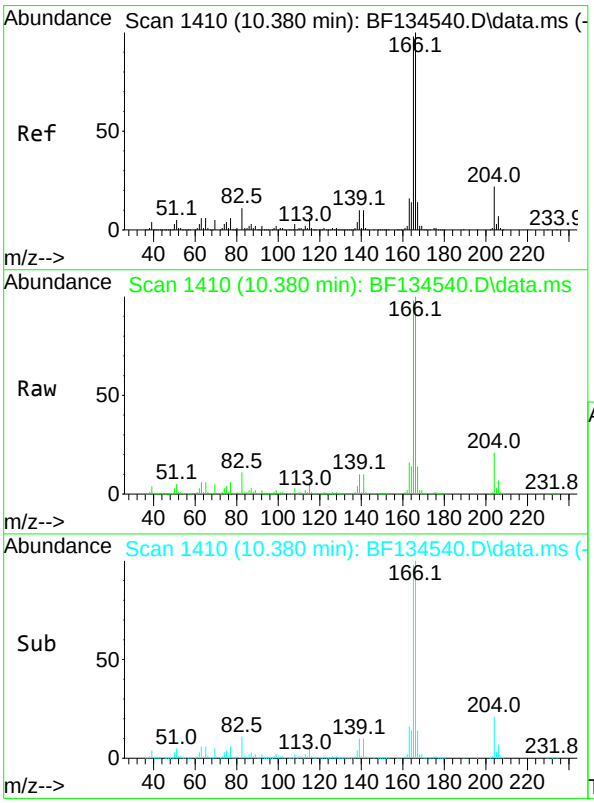
#57
2,4-Dinitrotoluene
Concen: 40.868 ng
RT: 10.016 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF134540.D
Acq: 01 Aug 2023 10:12

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:165 Resp: 272198

Ion	Ratio	Lower	Upper
165	100		
63	50.6	48.9	73.3
89	79.2	61.7	92.5
182	2.4	2.0	3.0

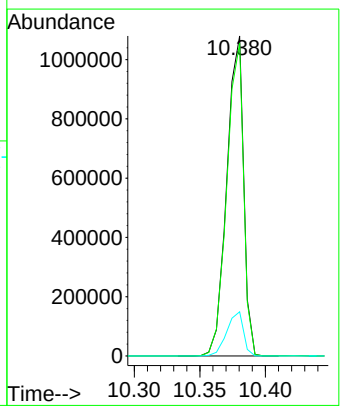


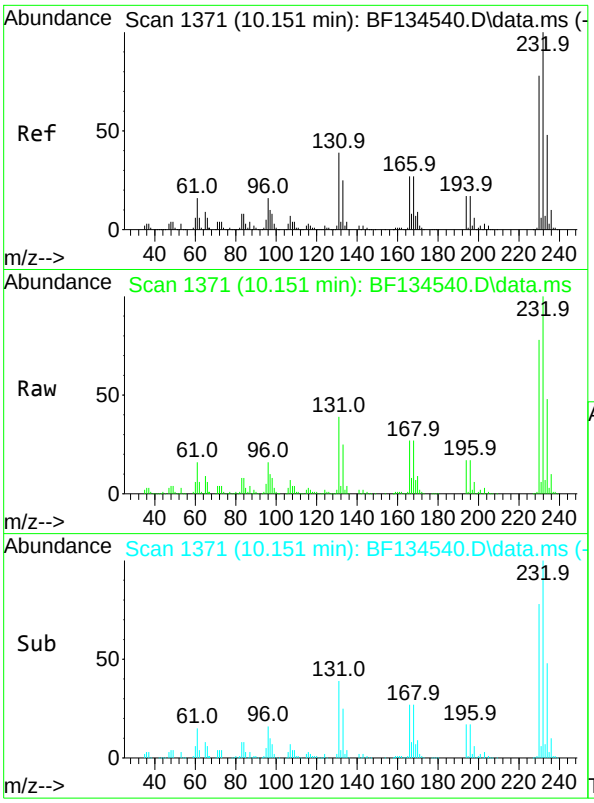


#58
Fluorene
Concen: 39.145 ng
RT: 10.380 min Scan# 1410
Delta R.T. 0.000 min
Lab File: BF134540.D
Acq: 01 Aug 2023 10:12

Tgt Ion:166 Resp: 961921

Ion	Ratio	Lower	Upper
166	100		
165	97.7	74.5	111.7
167	13.8	10.6	16.0



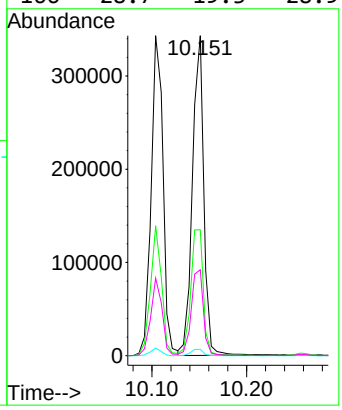


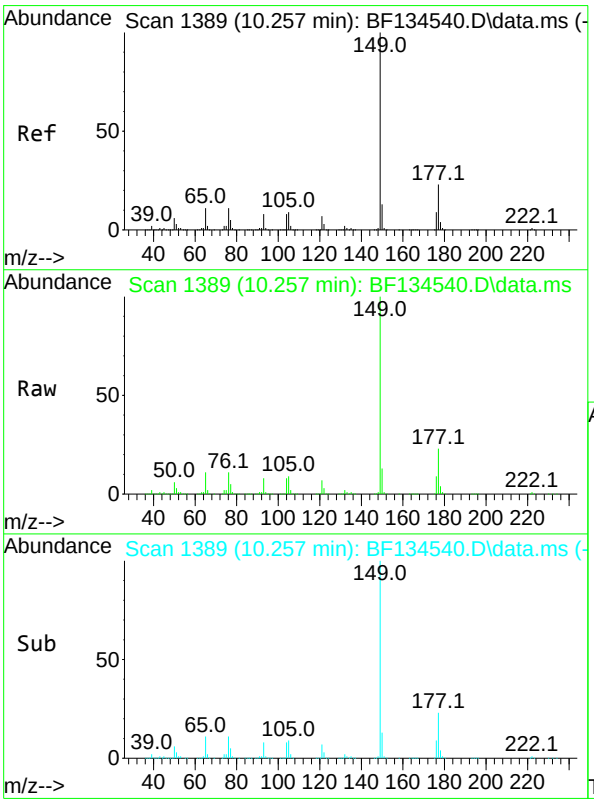
#59
2,3,4,6-Tetrachlorophenol
Concen: 41.605 ng
RT: 10.151 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134540.D
Acq: 01 Aug 2023 10:12

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:232 Resp: 286339

Ion	Ratio	Lower	Upper
232	100		
131	43.6	33.4	50.0
130	2.3	1.8	2.6
166	28.7	19.3	28.9

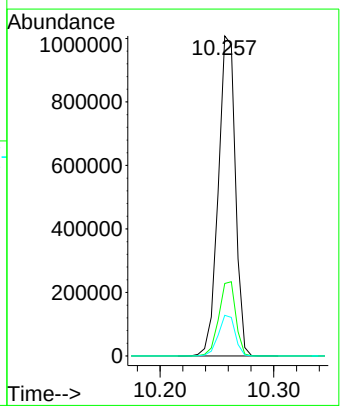


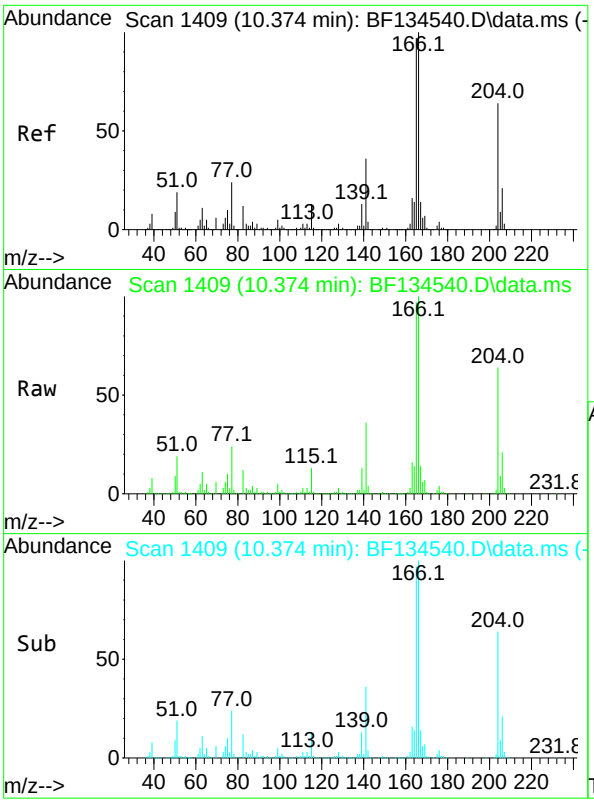


#60
Diethylphthalate
Concen: 40.881 ng
RT: 10.257 min Scan# 1389
Delta R.T. 0.000 min
Lab File: BF134540.D
Acq: 01 Aug 2023 10:12

Tgt Ion:149 Resp: 1054509

Ion	Ratio	Lower	Upper
149	100		
177	22.7	17.0	25.4
150	12.7	9.9	14.9



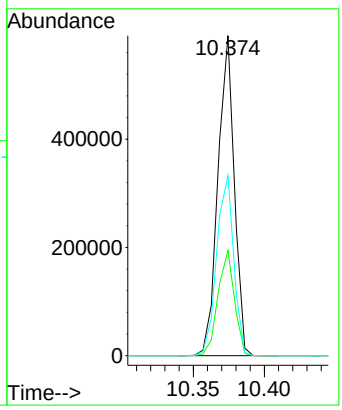


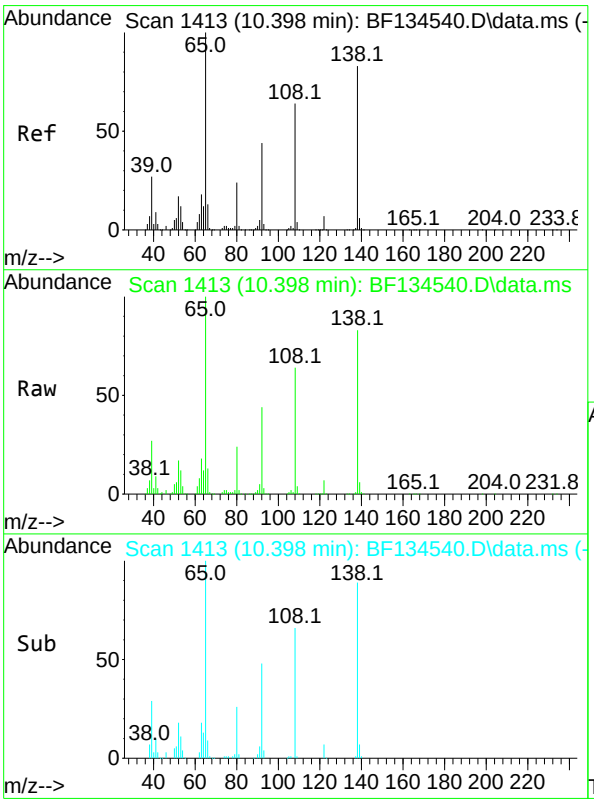
#61
4-Chlorophenyl-phenylether
Concen: 39.169 ng
RT: 10.374 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF134540.D
Acq: 01 Aug 2023 10:12

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:204 Resp: 473101

Ion	Ratio	Lower	Upper
204	100		
206	32.9	26.0	39.0
141	56.3	52.2	78.4

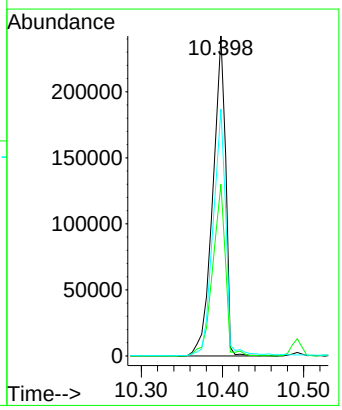


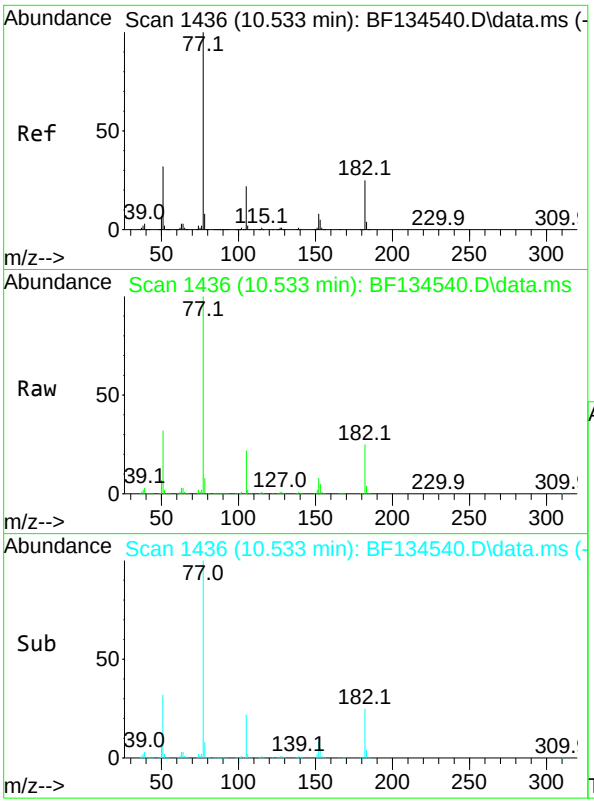


#62
4-Nitroaniline
Concen: 44.698 ng
RT: 10.398 min Scan# 1413
Delta R.T. 0.000 min
Lab File: BF134540.D
Acq: 01 Aug 2023 10:12

Tgt Ion:138 Resp: 265737

Ion	Ratio	Lower	Upper
138	100		
92	53.7	27.0	67.0
108	77.1	70.4	110.4



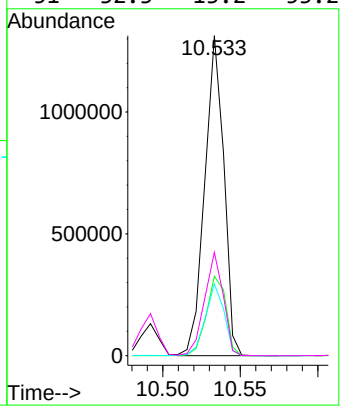


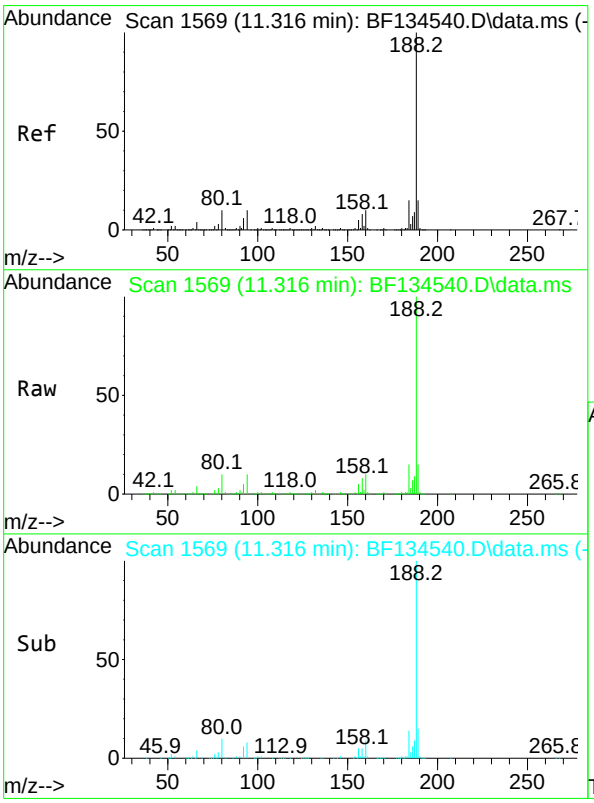
#63
Azobenzene
Concen: 40.482 ng
RT: 10.533 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF134540.D
Acq: 01 Aug 2023 10:12

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion: 77 Resp: 1121923

Ion	Ratio	Lower	Upper
77	100		
182	24.8	7.5	47.5
105	22.4	1.9	41.9
51	32.3	13.2	53.2

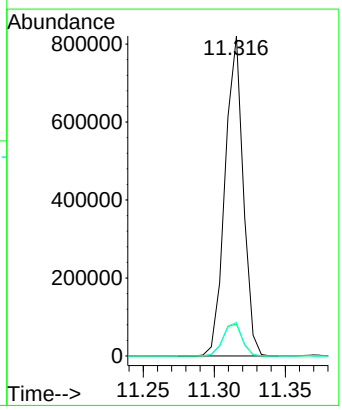


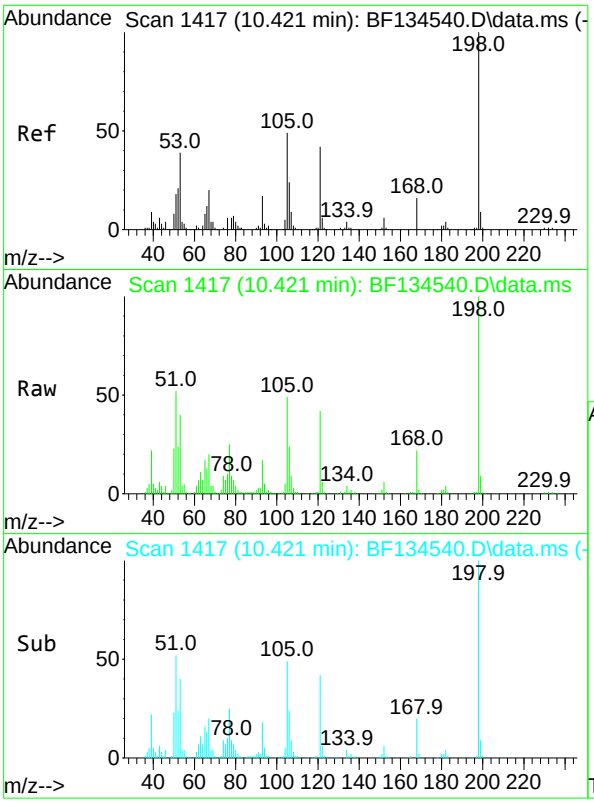


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.316 min Scan# 1569
Delta R.T. 0.000 min
Lab File: BF134540.D
Acq: 01 Aug 2023 10:12

Tgt Ion:188 Resp: 726478

Ion	Ratio	Lower	Upper
188	100		
94	10.0	5.1	7.7#
80	10.5	6.6	9.8#



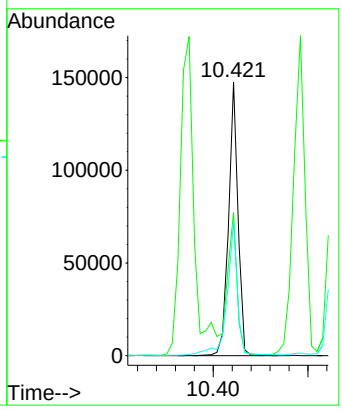


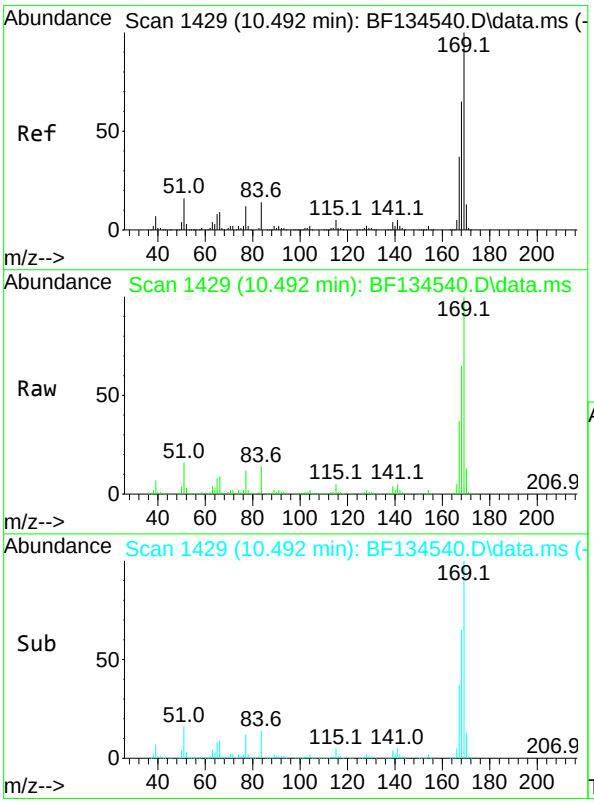
#65
4,6-Dinitro-2-methylphenol
Concen: 37.326 ng
RT: 10.421 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF134540.D
Acq: 01 Aug 2023 10:12

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:198 Resp: 102663

Ion	Ratio	Lower	Upper
198	100		
51	52.3	38.6	78.6
105	49.0	27.9	67.9

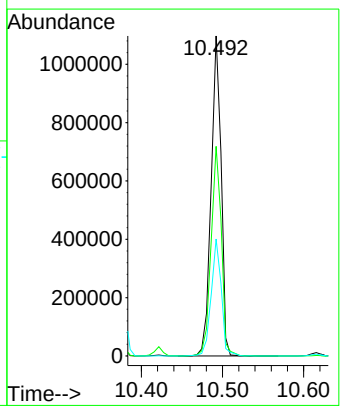


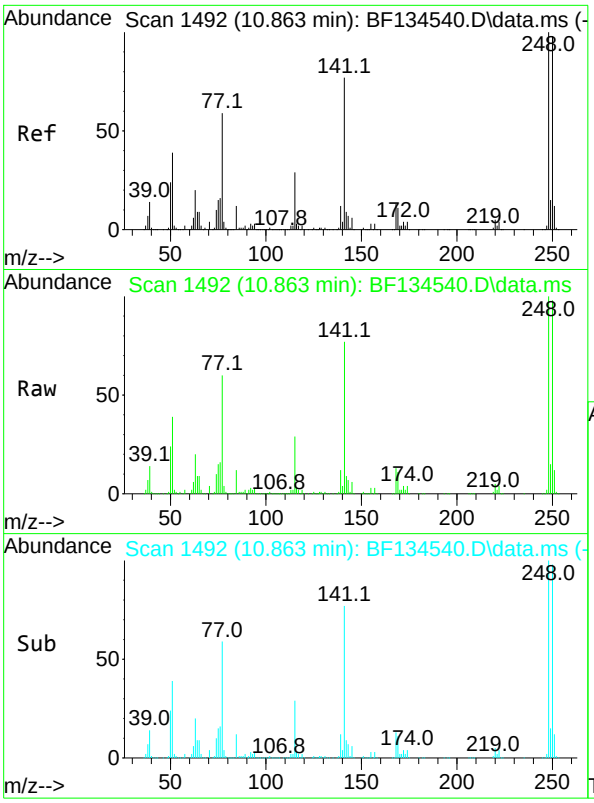


#66
n-Nitrosodiphenylamine
Concen: 40.296 ng
RT: 10.492 min Scan# 1429
Delta R.T. 0.000 min
Lab File: BF134540.D
Acq: 01 Aug 2023 10:12

Tgt Ion:169 Resp: 931779

Ion	Ratio	Lower	Upper
169	100		
168	65.5	52.6	78.8
167	36.5	29.8	44.8



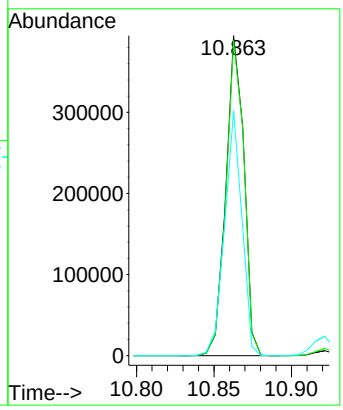


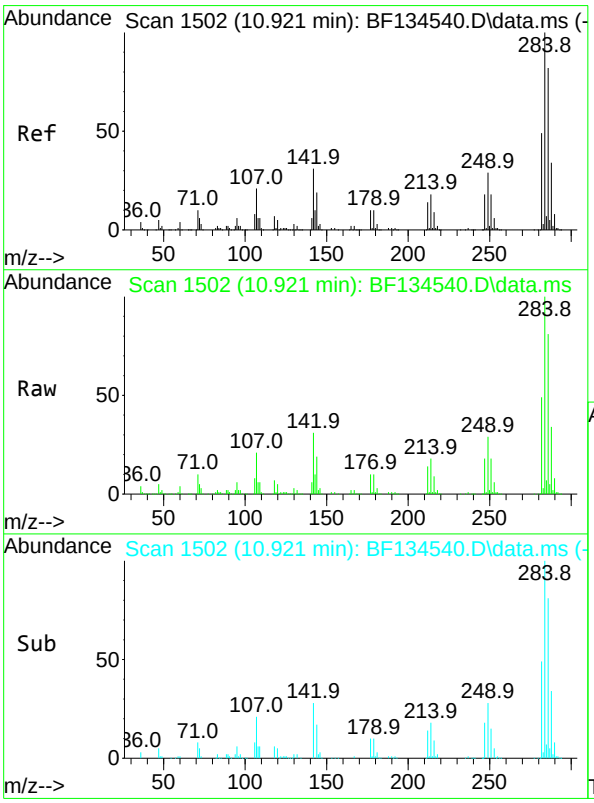
#67
4-Bromophenyl-phenylether
Concen: 40.253 ng
RT: 10.863 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF134540.D
Acq: 01 Aug 2023 10:12

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:248 Resp: 320118

Ion	Ratio	Lower	Upper
248	100		
250	98.5	79.6	119.4
141	76.5	59.6	89.4

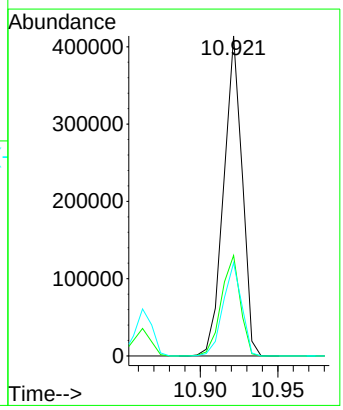


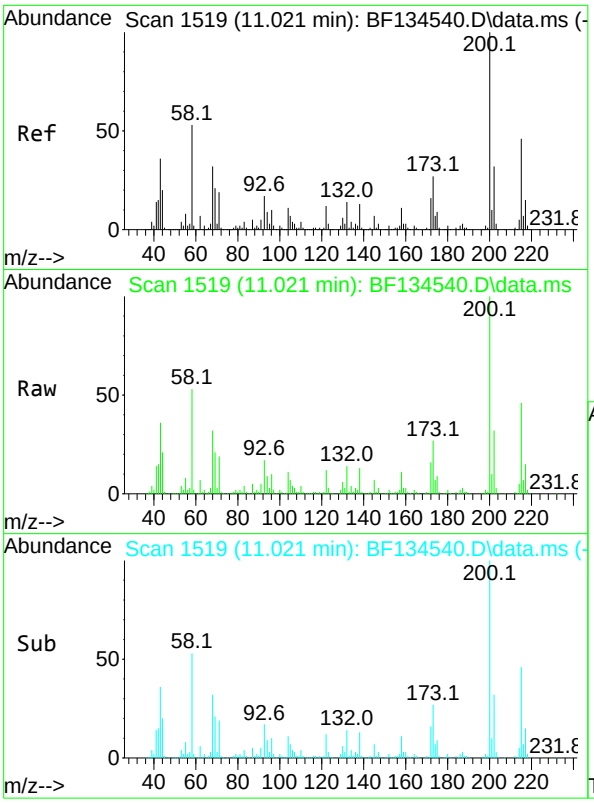


#68
Hexachlorobenzene
Concen: 40.739 ng
RT: 10.921 min Scan# 1502
Delta R.T. 0.000 min
Lab File: BF134540.D
Acq: 01 Aug 2023 10:12

Tgt Ion:284 Resp: 342123

Ion	Ratio	Lower	Upper
284	100		
142	31.4	26.5	39.7
249	29.1	23.8	35.8



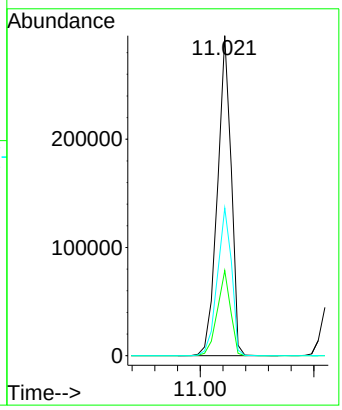


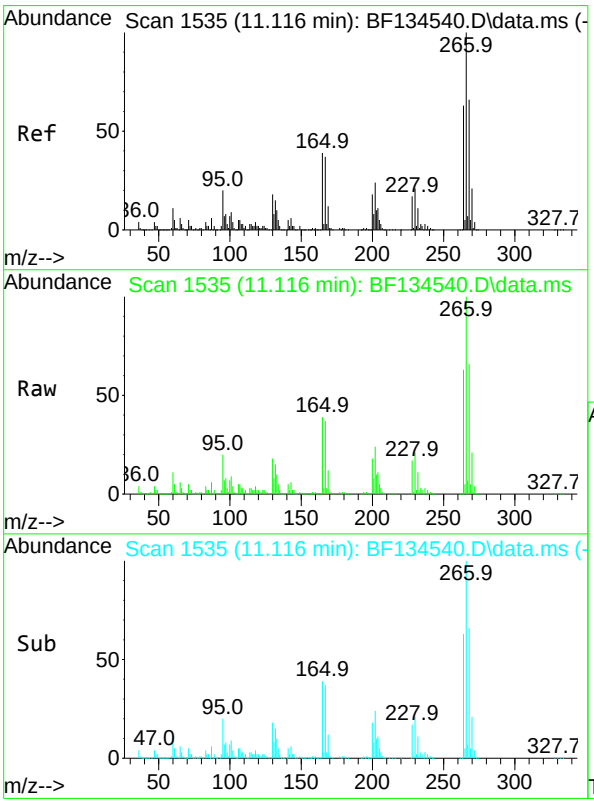
#69
Atrazine
Concen: 39.800 ng
RT: 11.021 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134540.D
Acq: 01 Aug 2023 10:12

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:200 Resp: 248054

Ion	Ratio	Lower	Upper
200	100		
173	26.6	6.1	46.1
215	46.2	29.7	69.7

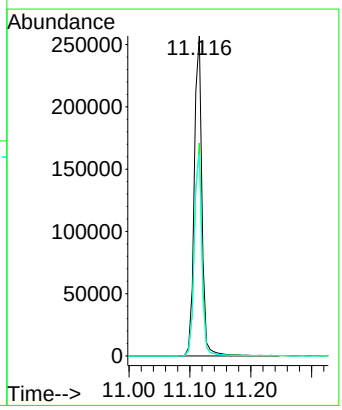


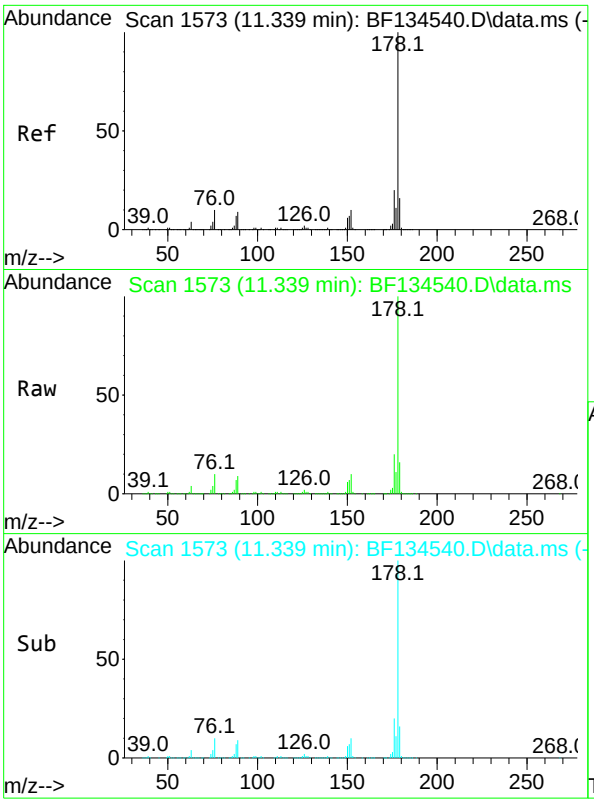


#70
Pentachlorophenol
Concen: 43.544 ng
RT: 11.116 min Scan# 1535
Delta R.T. 0.000 min
Lab File: BF134540.D
Acq: 01 Aug 2023 10:12

Tgt Ion:266 Resp: 226414

Ion	Ratio	Lower	Upper
266	100		
268	66.5	52.9	79.3
264	63.1	47.8	71.6



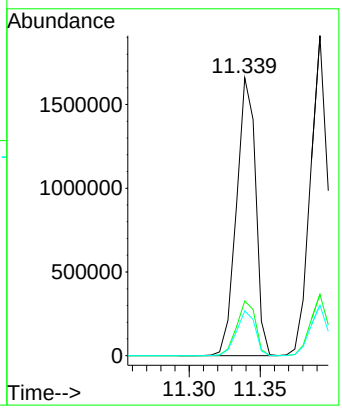


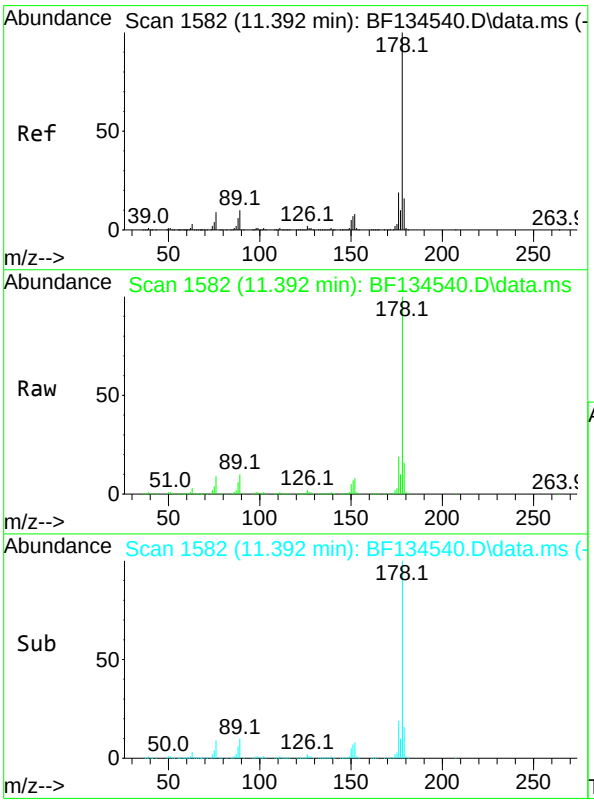
#71
Phenanthrene
Concen: 40.352 ng
RT: 11.339 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134540.D
Acq: 01 Aug 2023 10:12

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:178 Resp: 1557078

Ion	Ratio	Lower	Upper
178	100		
176	19.7	15.8	23.6
179	16.1	12.7	19.1

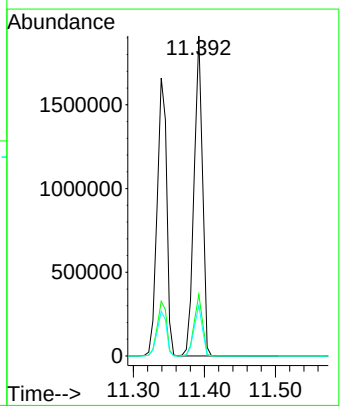


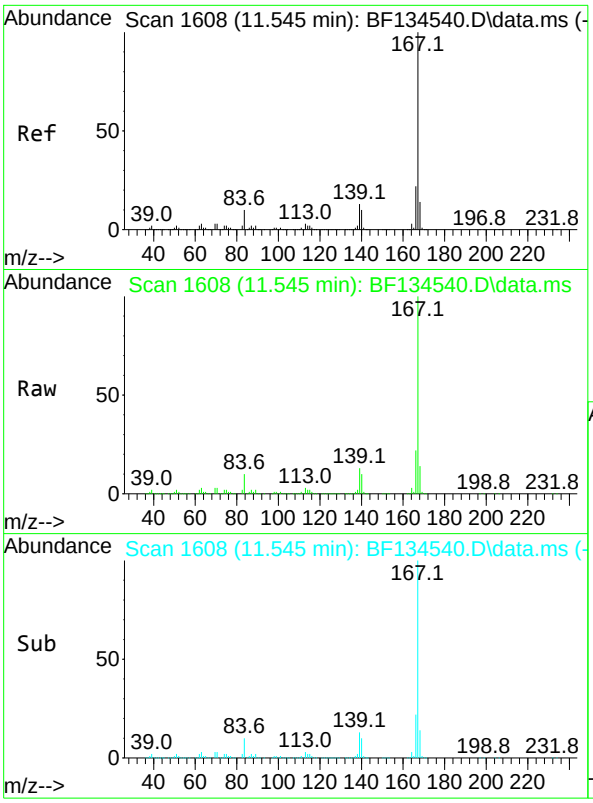


#72
Anthracene
Concen: 40.327 ng
RT: 11.392 min Scan# 1582
Delta R.T. 0.000 min
Lab File: BF134540.D
Acq: 01 Aug 2023 10:12

Tgt Ion:178 Resp: 1589503

Ion	Ratio	Lower	Upper
178	100		
176	19.2	14.6	21.8
179	15.8	12.3	18.5



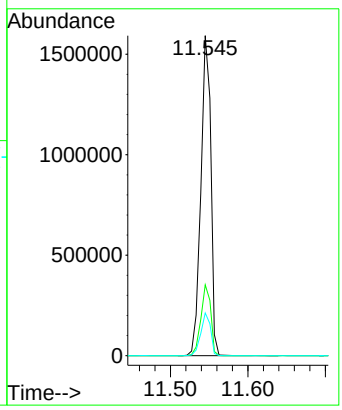


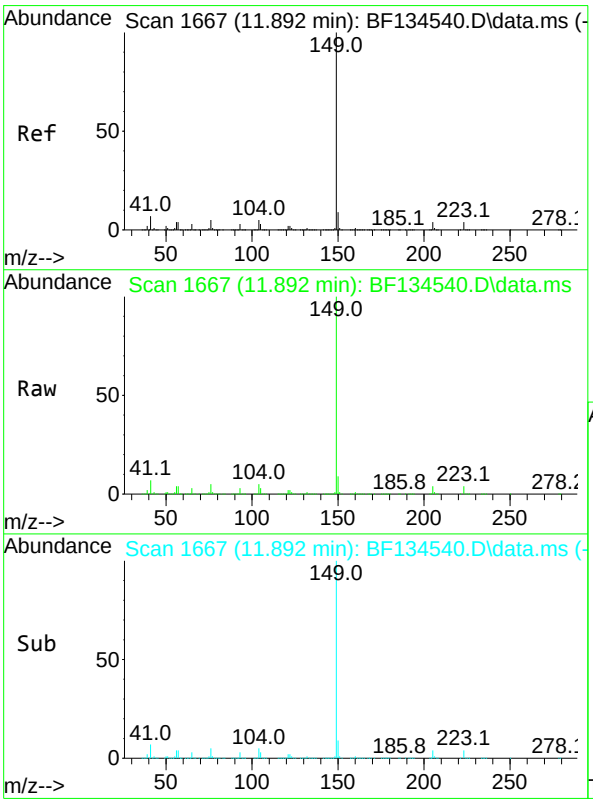
#73
Carbazole
Concen: 40.390 ng
RT: 11.545 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134540.D
Acq: 01 Aug 2023 10:12

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:167 Resp: 1421451

Ion	Ratio	Lower	Upper
167	100		
166	22.2	17.5	26.3
139	13.4	11.0	16.4

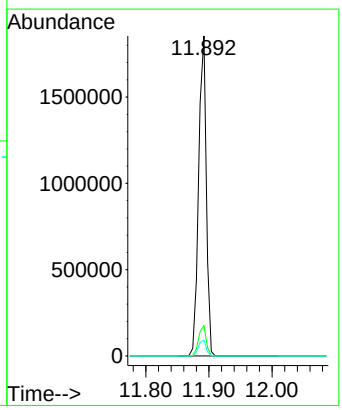


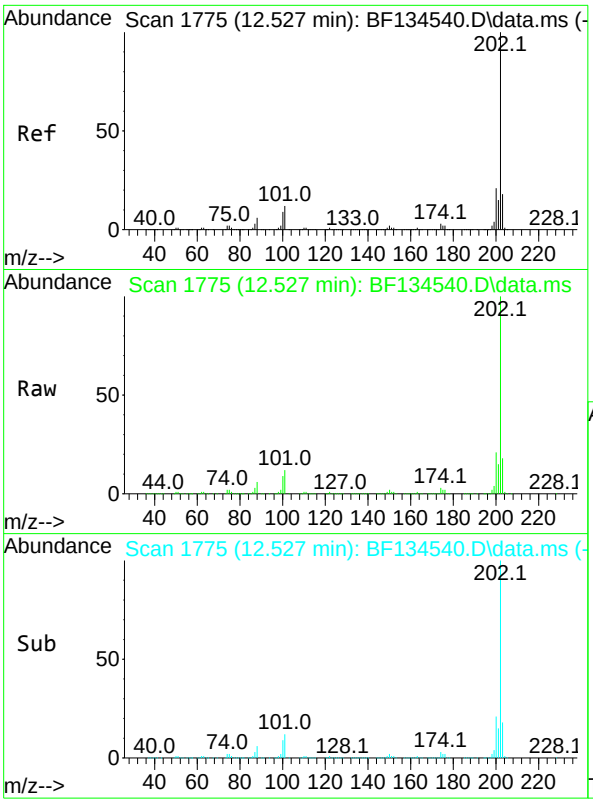


#74
Di-n-butylphthalate
Concen: 41.412 ng
RT: 11.892 min Scan# 1667
Delta R.T. 0.000 min
Lab File: BF134540.D
Acq: 01 Aug 2023 10:12

Tgt Ion:149 Resp: 1548328

Ion	Ratio	Lower	Upper
149	100		
150	9.4	7.2	10.8
104	5.0	3.8	5.8



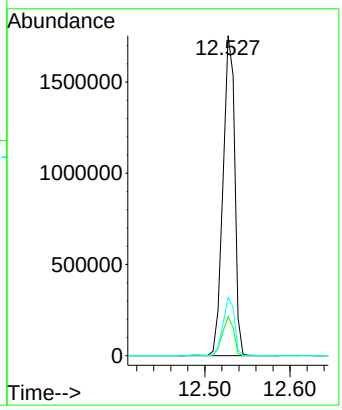


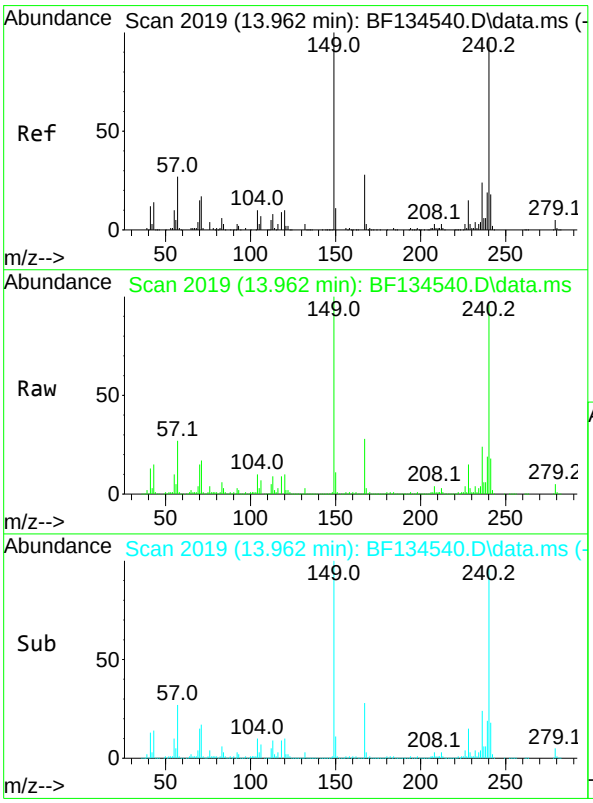
#75
Fluoranthene
Concen: 41.134 ng
RT: 12.527 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134540.D
Acq: 01 Aug 2023 10:12

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:202 Resp: 1676659

Ion	Ratio	Lower	Upper
202	100		
101	12.2	0.0	28.5
203	18.2	0.0	37.5

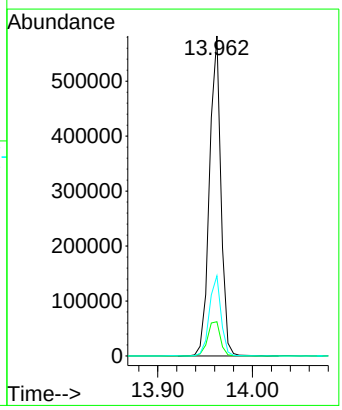


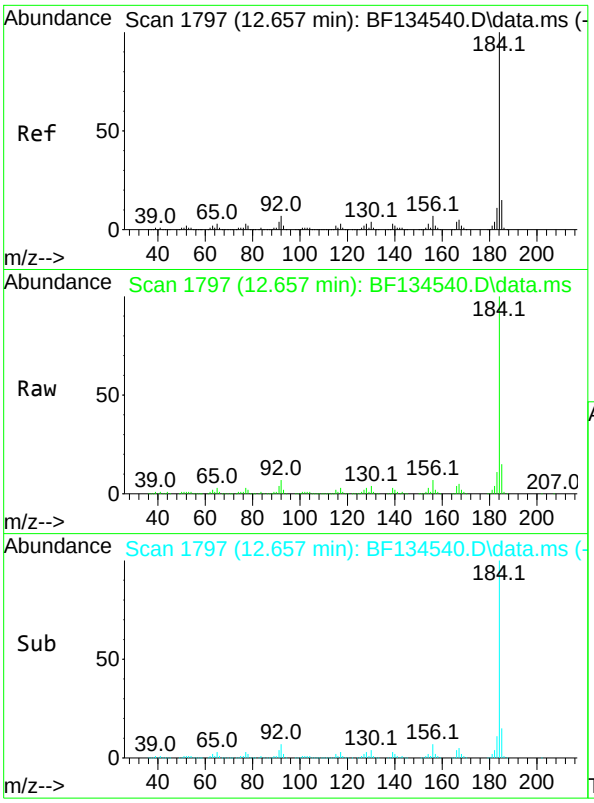


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.962 min Scan# 2019
Delta R.T. 0.000 min
Lab File: BF134540.D
Acq: 01 Aug 2023 10:12

Tgt Ion:240 Resp: 486561

Ion	Ratio	Lower	Upper
240	100		
120	10.7	6.6	10.0#
236	25.1	20.2	30.2



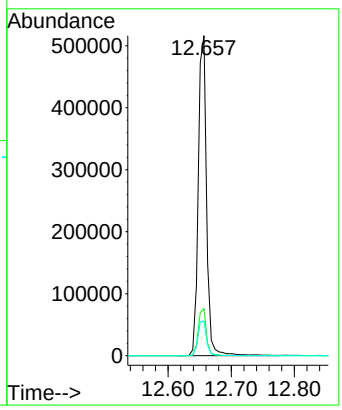


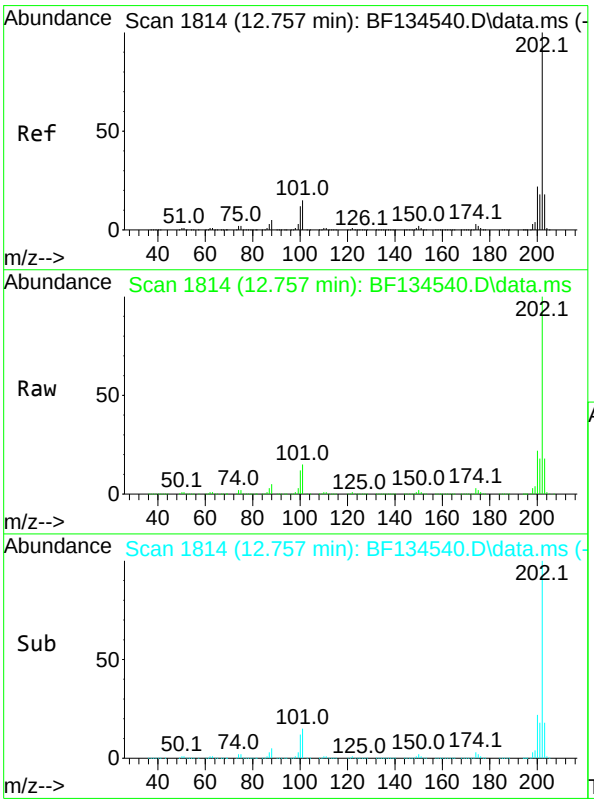
#77
Benzidine
Concen: 44.424 ng
RT: 12.657 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134540.D
Acq: 01 Aug 2023 10:12

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:184 Resp: 469219

Ion	Ratio	Lower	Upper
184	100		
185	14.7	11.2	16.8
183	10.9	8.6	13.0

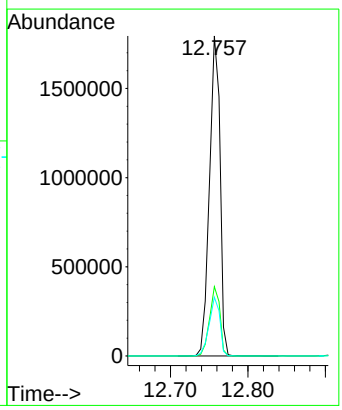


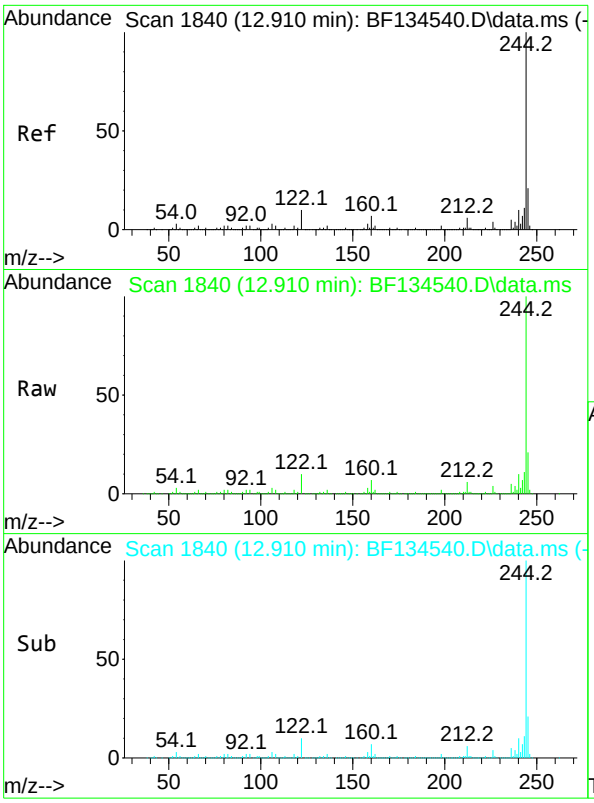


#78
Pyrene
Concen: 40.372 ng
RT: 12.757 min Scan# 1814
Delta R.T. 0.000 min
Lab File: BF134540.D
Acq: 01 Aug 2023 10:12

Tgt Ion:202 Resp: 1699764

Ion	Ratio	Lower	Upper
202	100		
200	21.7	15.8	23.8
203	18.3	13.5	20.3



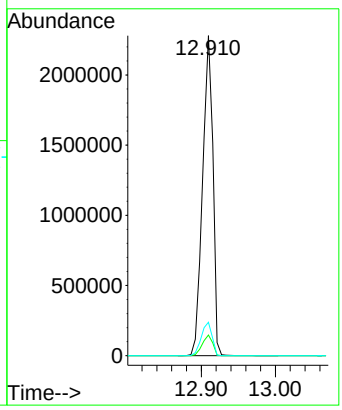


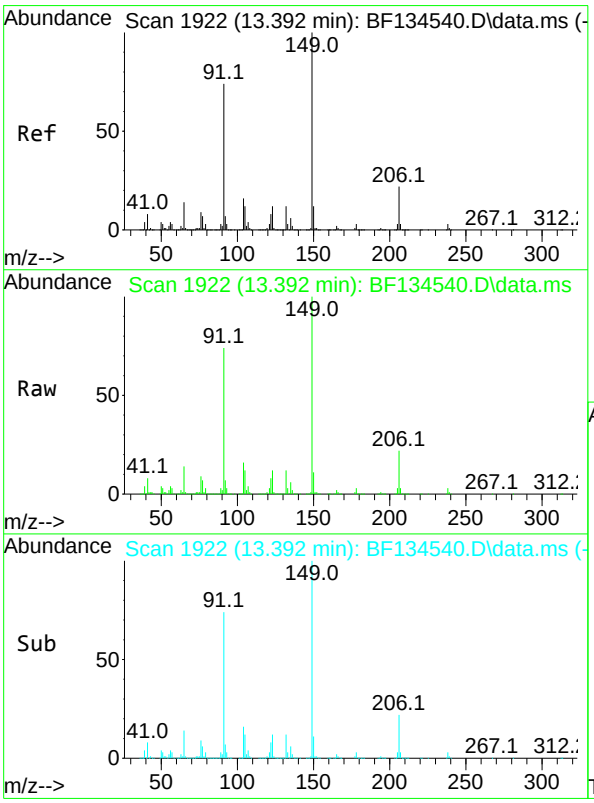
#79
Terphenyl-d14
Concen: 80.134 ng
RT: 12.910 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134540.D
Acq: 01 Aug 2023 10:12

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:244 Resp: 2211743

Ion	Ratio	Lower	Upper
244	100		
212	6.4	5.6	8.4
122	10.5	8.0	12.0

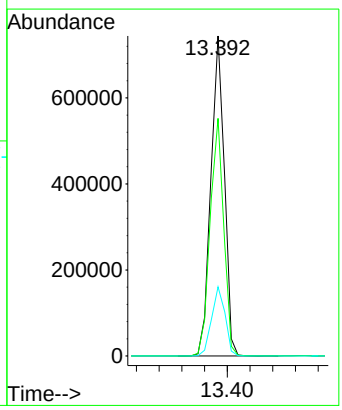


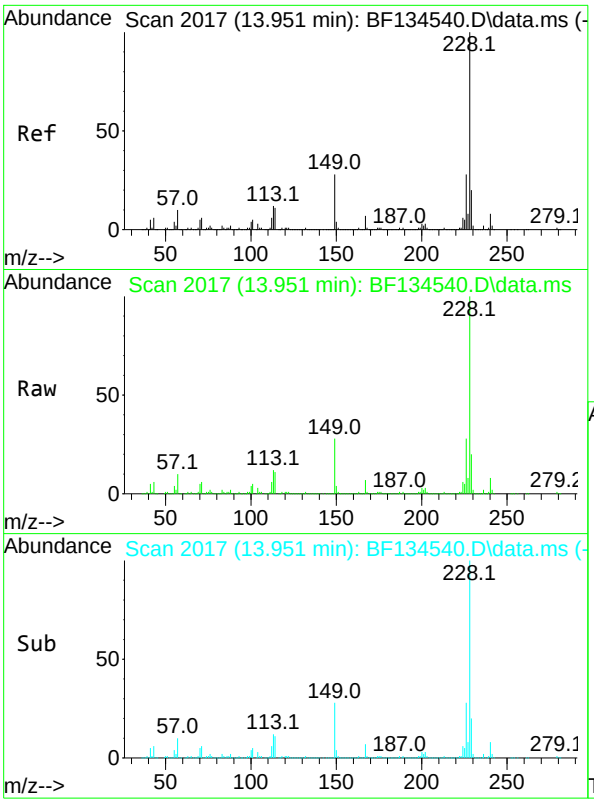


#80
Butylbenzylphthalate
Concen: 42.970 ng
RT: 13.392 min Scan# 1922
Delta R.T. 0.000 min
Lab File: BF134540.D
Acq: 01 Aug 2023 10:12

Tgt Ion:149 Resp: 611759

Ion	Ratio	Lower	Upper
149	100		
91	74.3	55.8	83.6
206	21.6	14.6	21.8



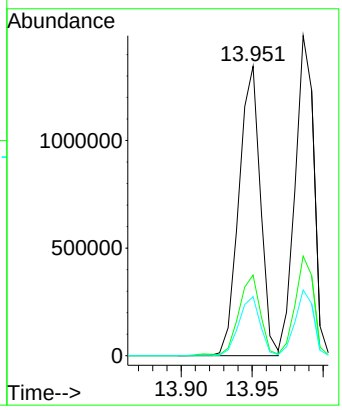


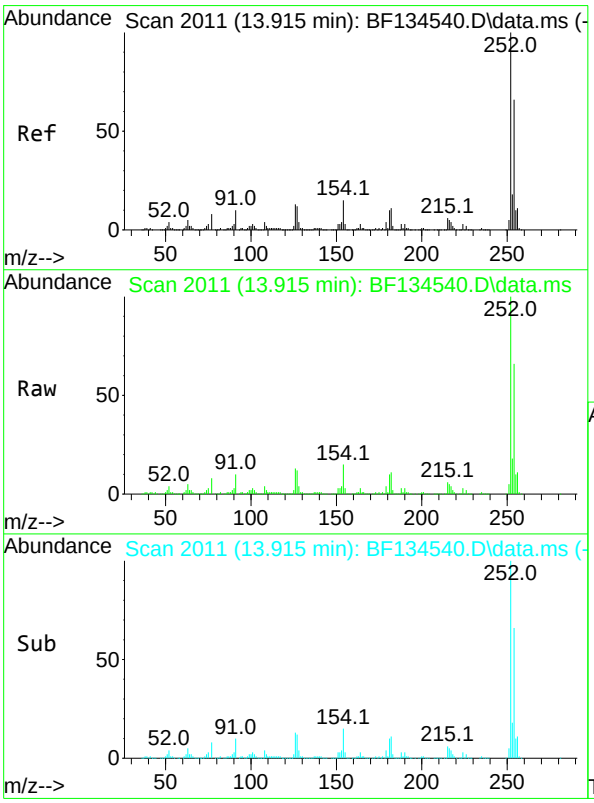
#81
Benzo(a)anthracene
Concen: 40.581 ng
RT: 13.951 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF134540.D
Acq: 01 Aug 2023 10:12

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:228 Resp: 1411868

Ion	Ratio	Lower	Upper
228	100		
226	27.9	22.3	33.5
229	20.4	15.8	23.6

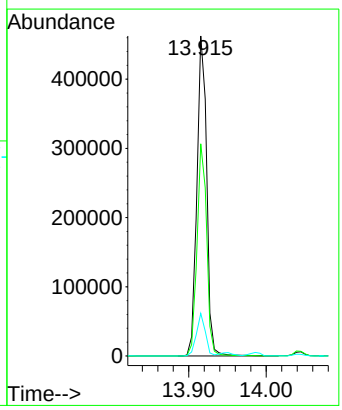


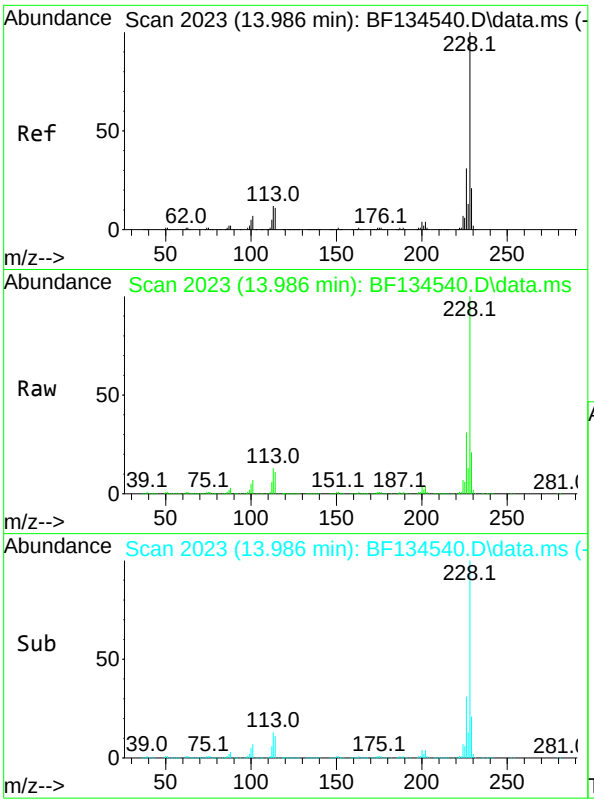


#82
3,3'-Dichlorobenzidine
Concen: 40.224 ng
RT: 13.915 min Scan# 2011
Delta R.T. 0.000 min
Lab File: BF134540.D
Acq: 01 Aug 2023 10:12

Tgt Ion:252 Resp: 405654

Ion	Ratio	Lower	Upper
252	100		
254	66.3	52.7	79.1
126	13.3	7.2	10.8#



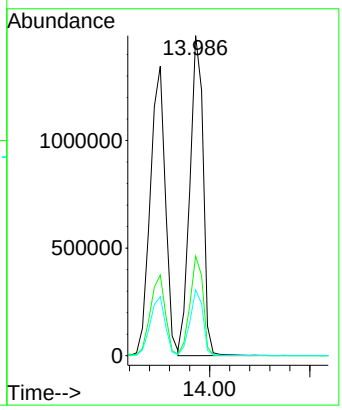


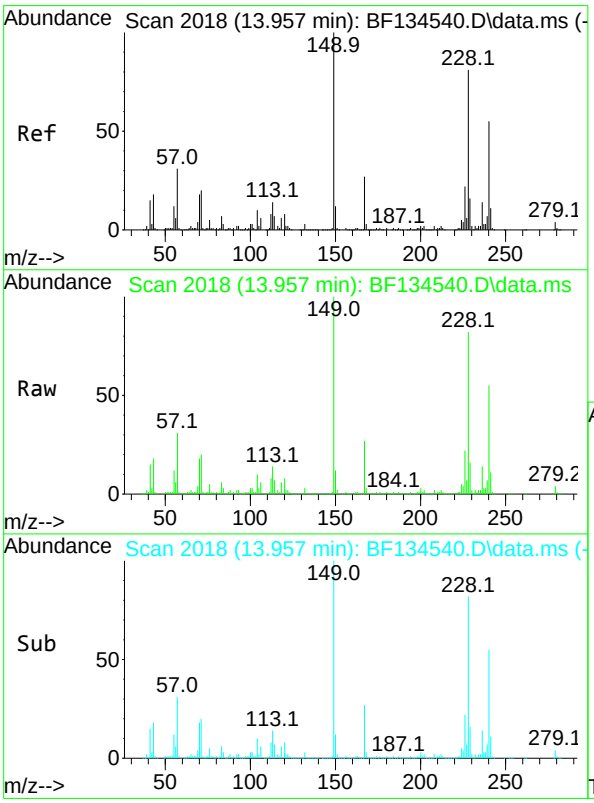
#83
Chrysene
Concen: 40.164 ng
RT: 13.986 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF134540.D
Acq: 01 Aug 2023 10:12

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:228 Resp: 1361401

Ion	Ratio	Lower	Upper
228	100		
226	31.1	24.5	36.7
229	20.5	15.8	23.8

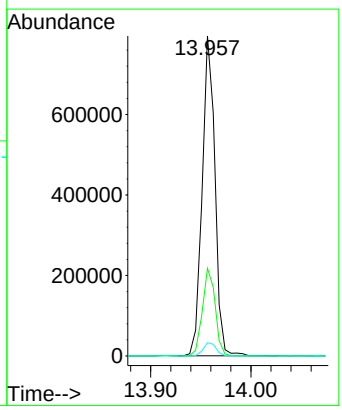


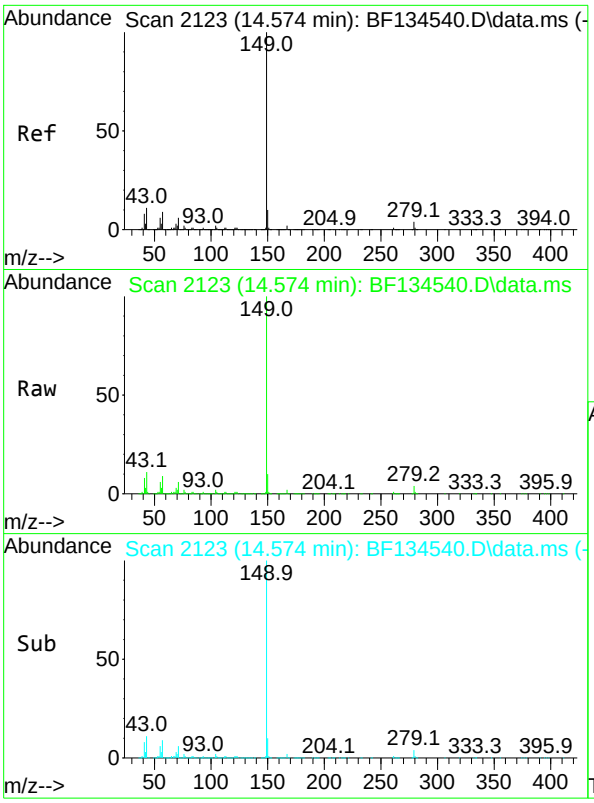


#84
Bis(2-ethylhexyl)phthalate
Concen: 42.208 ng
RT: 13.957 min Scan# 2018
Delta R.T. 0.000 min
Lab File: BF134540.D
Acq: 01 Aug 2023 10:12

Tgt Ion:149 Resp: 707149

Ion	Ratio	Lower	Upper
149	100		
167	27.4	21.6	32.4
279	4.2	3.5	5.3



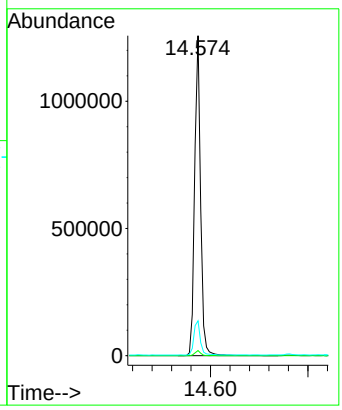


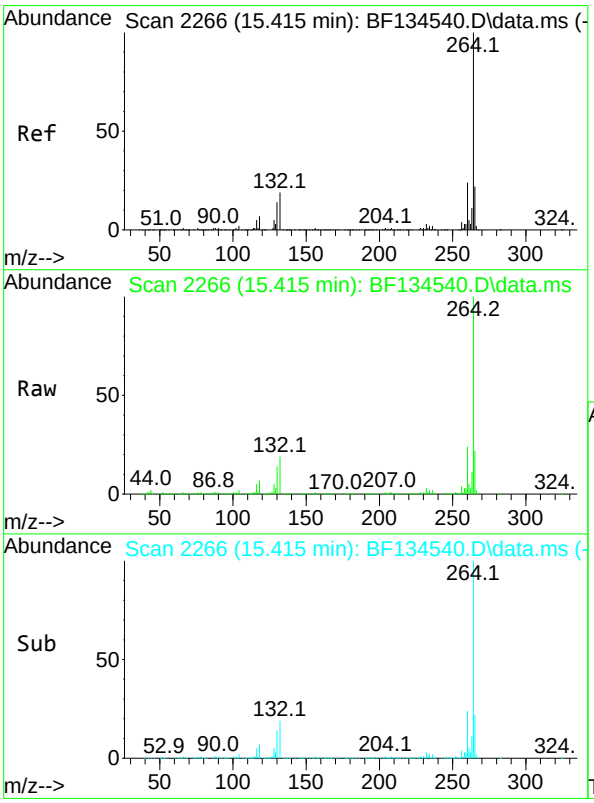
#85
Di-n-octyl phthalate
Concen: 42.137 ng
RT: 14.574 min Scan# 21
Delta R.T. 0.000 min
Lab File: BF134540.D
Acq: 01 Aug 2023 10:12

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:149 Resp: 1073569

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.2	1.8
43	11.8	8.1	12.1

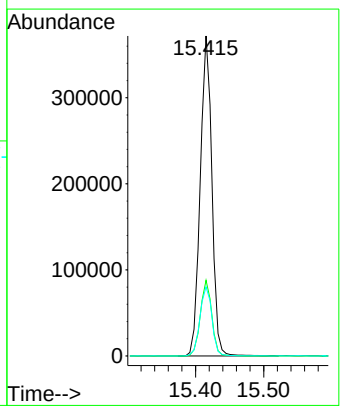


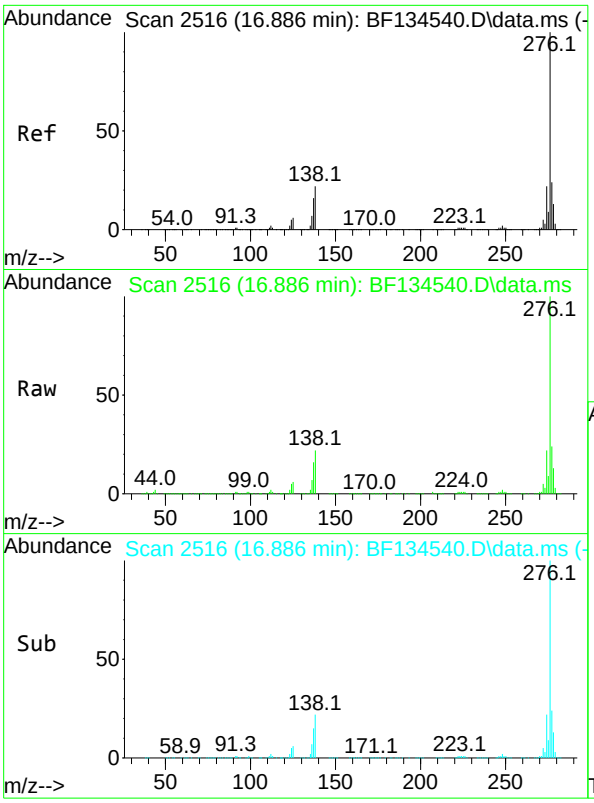


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.415 min Scan# 2266
Delta R.T. 0.000 min
Lab File: BF134540.D
Acq: 01 Aug 2023 10:12

Tgt Ion:264 Resp: 442066

Ion	Ratio	Lower	Upper
264	100		
260	23.7	18.4	27.6
265	21.6	15.8	23.8



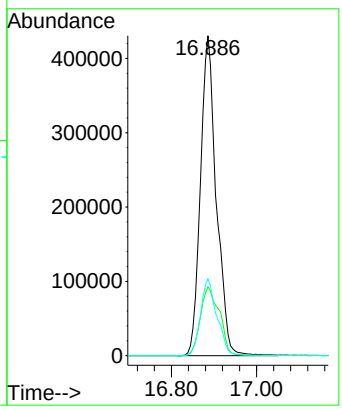


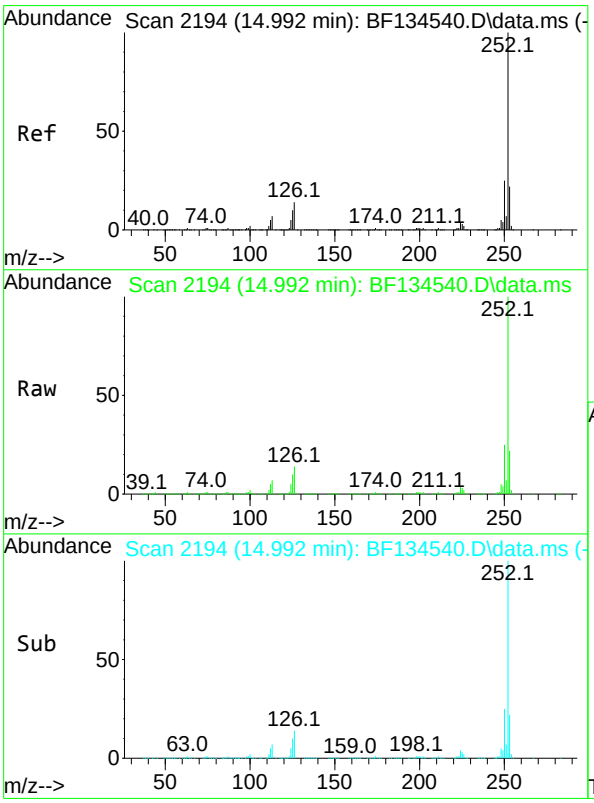
#87
Indeno(1,2,3-cd)pyrene
Concen: 42.894 ng
RT: 16.886 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF134540.D
Acq: 01 Aug 2023 10:12

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:276 Resp: 1115190

Ion	Ratio	Lower	Upper
276	100		
138	25.9	14.2	21.4#
277	24.7	19.9	29.9

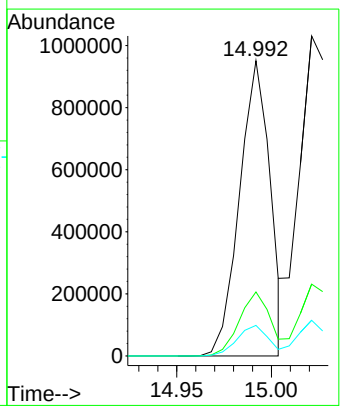


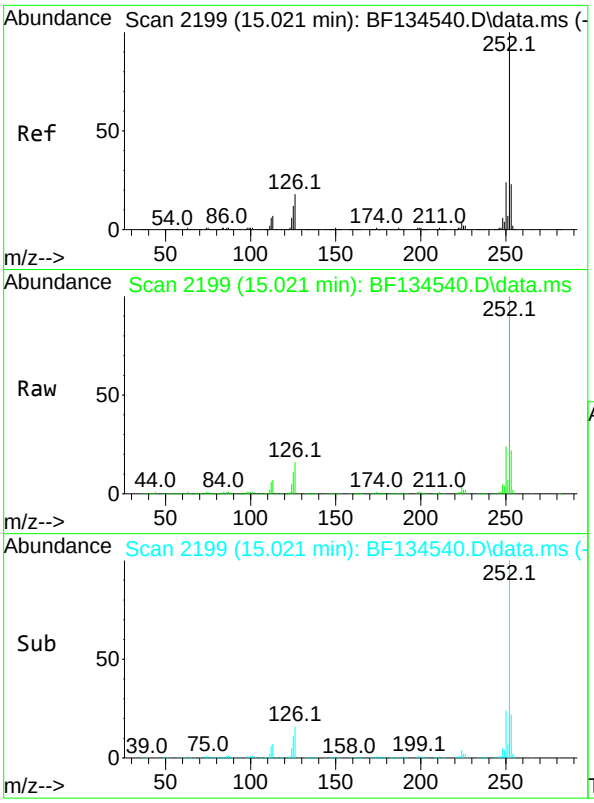


#88
Benzo(b)fluoranthene
Concen: 39.682 ng
RT: 14.992 min Scan# 2194
Delta R.T. 0.000 min
Lab File: BF134540.D
Acq: 01 Aug 2023 10:12

Tgt Ion:252 Resp: 1069867

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.3	25.9
125	10.4	6.0	9.0#



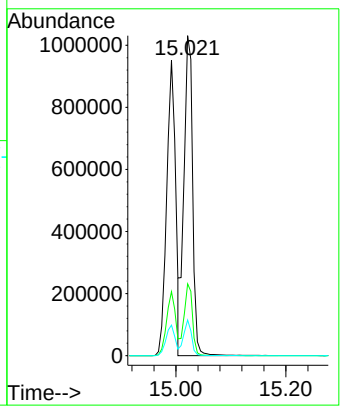


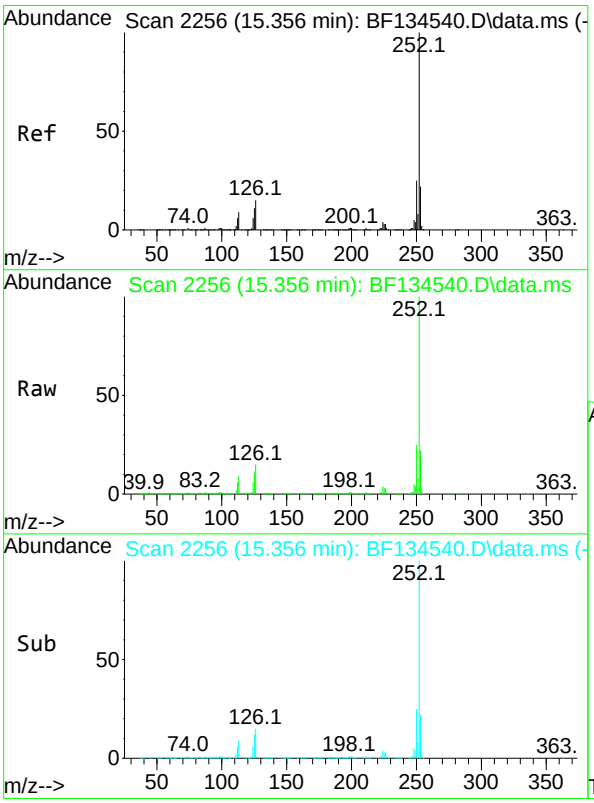
#89
Benzo(k)fluoranthene
Concen: 42.357 ng
RT: 15.021 min Scan# 21
Delta R.T. 0.000 min
Lab File: BF134540.D
Acq: 01 Aug 2023 10:12

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:252 Resp: 1137626

Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.9	26.9
125	11.1	6.3	9.5#

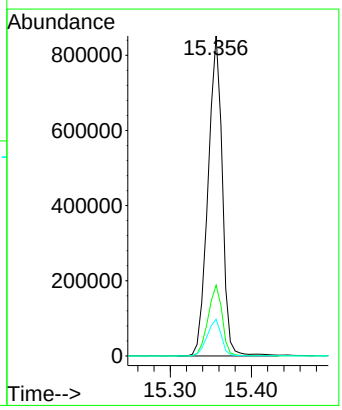


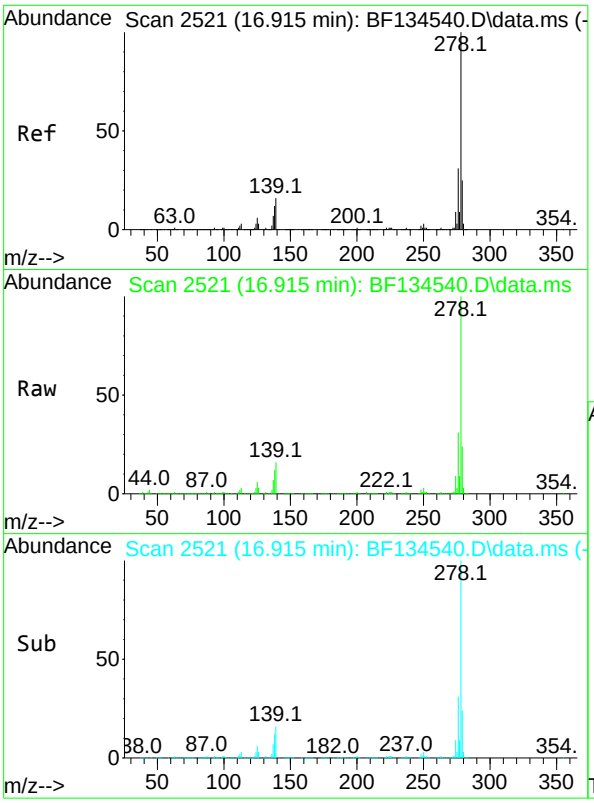


#90
Benzo(a)pyrene
Concen: 41.283 ng
RT: 15.356 min Scan# 2256
Delta R.T. 0.000 min
Lab File: BF134540.D
Acq: 01 Aug 2023 10:12

Tgt Ion:252 Resp: 1037770

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.0	25.4
125	11.5	6.2	9.4#



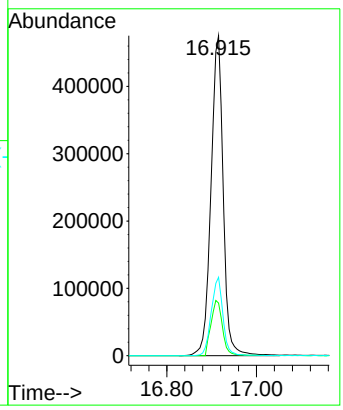


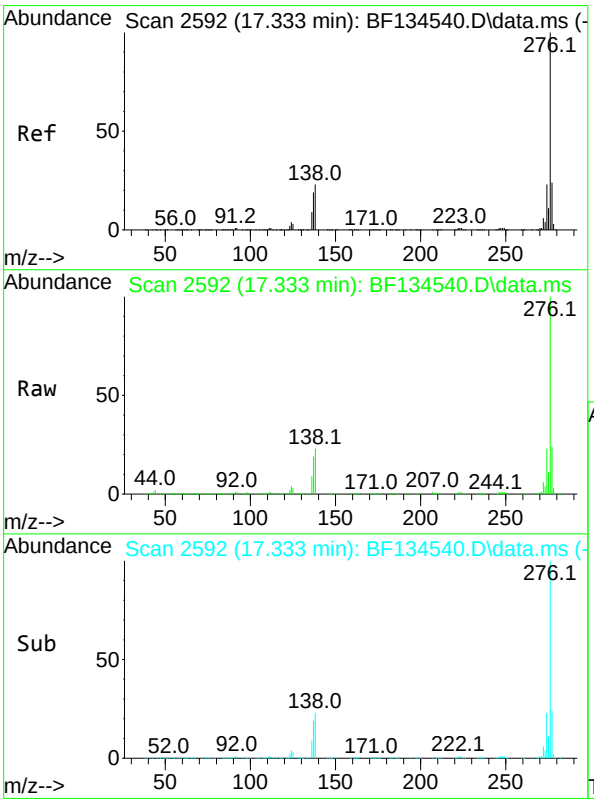
#91
Dibenzo(a,h)anthracene
Concen: 42.781 ng
RT: 16.915 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF134540.D
Acq: 01 Aug 2023 10:12

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:278 Resp: 898891

Ion	Ratio	Lower	Upper
278	100		
139	16.5	10.0	15.0#
279	24.5	19.7	29.5

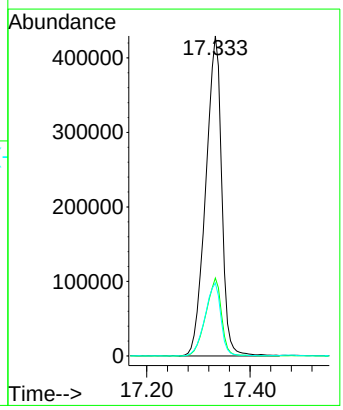




#92
Benzo(g,h,i)perylene
Concen: 42.970 ng
RT: 17.333 min Scan# 2592
Delta R.T. 0.000 min
Lab File: BF134540.D
Acq: 01 Aug 2023 10:12

Tgt Ion:276 Resp: 920966

Ion	Ratio	Lower	Upper
276	100		
277	24.4	19.0	28.6
138	22.8	12.2	18.2#



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080123\
Data File : BF134541.D
Acq On : 01 Aug 2023 10:44
Operator : CG\JU
Sample : SSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 02 02:14:53 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 02 02:08:18 2023
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.798	152	234405	20.000	ng		0.00
21) Naphthalene-d8	8.075	136	878031	20.000	ng	#	0.00
39) Acenaphthene-d10	9.828	164	443505	20.000	ng		0.00
64) Phenanthrene-d10	11.316	188	804974	20.000	ng	#	0.00
76) Chrysene-d12	13.963	240	486215	20.000	ng	#	0.00
86) Perylene-d12	15.415	264	473029	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.416	112	1409187	91.385	ng		0.00
7) Phenol-d6	6.434	99	1798738	91.251	ng		0.00
23) Nitrobenzene-d5	7.363	82	1454104	103.494	ng		0.00
42) 2,4,6-Tribromophenol	10.622	330	438135	96.909	ng		0.00
45) 2-Fluorobiphenyl	9.157	172	2324003	87.127	ng		0.00
79) Terphenyl-d14	12.910	244	2674053	96.953	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.557	88	335539	47.293	ng		96
3) Pyridine	3.304	79	906734	47.164	ng		92
4) n-Nitrosodimethylamine	3.275	42	444491	48.388	ng	#	68
6) Aniline	6.463	93	1212447	46.894	ng		93
8) 2-Chlorophenol	6.581	128	718992	46.221	ng		98
9) Benzaldehyde	6.351	77	425497	48.879	ng		94
10) Phenol	6.445	94	891027m	45.867	ng		
11) bis(2-Chloroethyl)ether	6.539	93	714837	46.324	ng		95
12) 1,3-Dichlorobenzene	6.739	146	732054	45.485	ng		93
13) 1,4-Dichlorobenzene	6.816	146	736238	45.644	ng		97
14) 1,2-Dichlorobenzene	6.969	146	676877	45.039	ng		96
15) Benzyl Alcohol	6.939	79	624017	45.888	ng		94
16) 2,2'-oxybis(1-Chloropr...	7.075	45	1123161	46.458	ng		88
17) 2-Methylphenol	7.045	107	645083	46.929	ng		91
18) Hexachloroethane	7.304	117	267402	47.235	ng		97
19) n-Nitroso-di-n-propyla...	7.222	70	532183	45.092	ng	#	90
20) 3+4-Methylphenols	7.204	107	737097	44.464	ng	#	78
22) Acetophenone	7.210	105	899148	44.358	ng	#	86
24) Nitrobenzene	7.381	77	760588	50.108	ng		97
25) Isophorone	7.622	82	1438730	46.949	ng		99
26) 2-Nitrophenol	7.692	139	313072	48.423	ng		90
27) 2,4-Dimethylphenol	7.728	122	644474	47.133	ng		87
28) bis(2-Chloroethoxy)met...	7.834	93	855595	46.673	ng		100
29) 2,4-Dichlorophenol	7.928	162	598836	48.254	ng		96
30) 1,2,4-Trichlorobenzene	8.016	180	623430	47.109	ng		98
31) Naphthalene	8.098	128	2022366	45.829	ng		98
32) Benzoic acid	7.857	122	436693	48.802	ng		90
33) 4-Chloroaniline	8.145	127	910653	46.315	ng		99
34) Hexachlorobutadiene	8.216	225	355750	46.604	ng		96
35) Caprolactam	8.528	113	198549	49.573	ng		99
36) 4-Chloro-3-methylphenol	8.628	107	626849	47.695	ng		91
37) 2-Methylnaphthalene	8.786	142	1345944	46.015	ng		98
38) 1-Methylnaphthalene	8.886	142	1237030	45.480	ng		97
40) 1,2,4,5-Tetrachloroben...	8.951	216	583756	45.264	ng		99
41) Hexachlorocyclopentadiene	8.939	237	319551	50.953	ng		92
43) 2,4,6-Trichlorophenol	9.063	196	409940	48.569	ng		93

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080123\
Data File : BF134541.D
Acq On : 01 Aug 2023 10:44
Operator : CG\JU
Sample : SSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

Quant Time: Aug 02 02:14:53 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 02 02:08:18 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.098	196	455045	47.171	ng		94
46) 1,1'-Biphenyl	9.257	154	1542644	44.730	ng		99
47) 2-Chloronaphthalene	9.275	162	1175777	45.499	ng		98
48) 2-Nitroaniline	9.375	65	392208	48.637	ng		89
49) Acenaphthylene	9.692	152	1852527	45.605	ng		99
50) Dimethylphthalate	9.563	163	1387887	45.914	ng		98
51) 2,6-Dinitrotoluene	9.616	165	305004	49.181	ng		93
52) Acenaphthene	9.863	154	1199719	45.575	ng		99
53) 3-Nitroaniline	9.786	138	358090	53.149	ng		93
54) 2,4-Dinitrophenol	9.886	184	99755	49.552	ng		89
55) Dibenzofuran	10.033	168	1693158	45.182	ng		96
56) 4-Nitrophenol	9.939	139	284956	51.712	ng	#	73
57) 2,4-Dinitrotoluene	10.022	165	376119	50.143	ng	#	85
58) Fluorene	10.380	166	1168745	42.818	ng		96
59) 2,3,4,6-Tetrachlorophenol	10.151	232	378236	49.477	ng		96
60) Diethylphthalate	10.263	149	1314701	45.885	ng		96
61) 4-Chlorophenyl-phenyle...	10.375	204	573353	42.735	ng		93
62) 4-Nitroaniline	10.404	138	357122	54.078	ng		87
63) Azobenzene	10.533	77	1412081	45.871	ng		98
65) 4,6-Dinitro-2-methylph...	10.427	198	156714	48.137	ng		82
66) n-Nitrosodiphenylamine	10.492	169	1171897	45.738	ng		99
67) 4-Bromophenyl-phenylether	10.863	248	413011	46.870	ng		98
68) Hexachlorobenzene	10.922	284	433422	46.578	ng		98
69) Atrazine	11.022	200	322951	46.764	ng		98
70) Pentachlorophenol	11.116	266	295046	51.210	ng		96
71) Phenanthrene	11.339	178	1916975	44.834	ng		99
72) Anthracene	11.392	178	1967609	45.052	ng		98
73) Carbazole	11.551	167	1784736	45.768	ng		99
74) Di-n-butylphthalate	11.892	149	1921332	46.377	ng		99
75) Fluoranthene	12.527	202	2075306	45.950	ng		95
77) Benzidine	12.651	184	488512	46.284	ng		97
78) Pyrene	12.757	202	2106005	50.056	ng		96
80) Butylbenzylphthalate	13.392	149	777516	54.652	ng	#	96
81) Benzo(a)anthracene	13.945	228	1666383	47.930	ng		99
82) 3,3'-Dichlorobenzidine	13.915	252	485849	48.211	ng	#	96
83) Chrysene	13.986	228	1641951	48.475	ng		100
84) Bis(2-ethylhexyl)phtha...	13.957	149	835168	49.884	ng		100
85) Di-n-octyl phthalate	14.574	149	1290711	50.696	ng		96
87) Indeno(1,2,3-cd)pyrene	16.886	276	1459793	52.473	ng	#	92
88) Benzo(b)fluoranthene	14.992	252	1335309	46.285	ng	#	97
89) Benzo(k)fluoranthene	15.021	252	1377171	47.920	ng	#	97
90) Benzo(a)pyrene	15.357	252	1299365	48.306	ng	#	95
91) Dibenzo(a,h)anthracene	16.915	278	1183586	52.644	ng	#	96
92) Benzo(g,h,i)perylene	17.339	276	1232754	53.752	ng	#	93

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

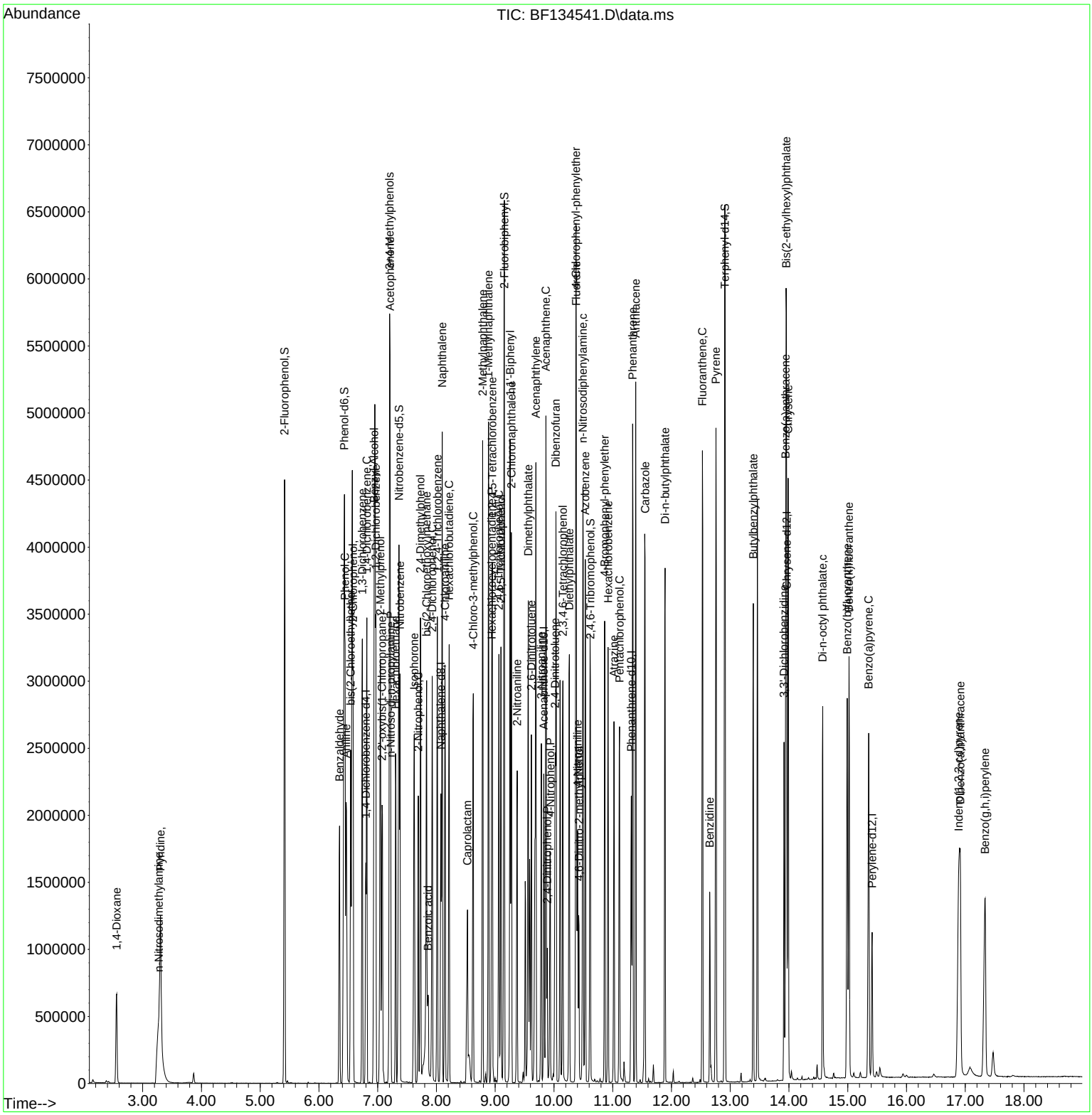
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080123\
Data File : BF134541.D
Acq On : 01 Aug 2023 10:44
Operator : CG\JU
Sample : SSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

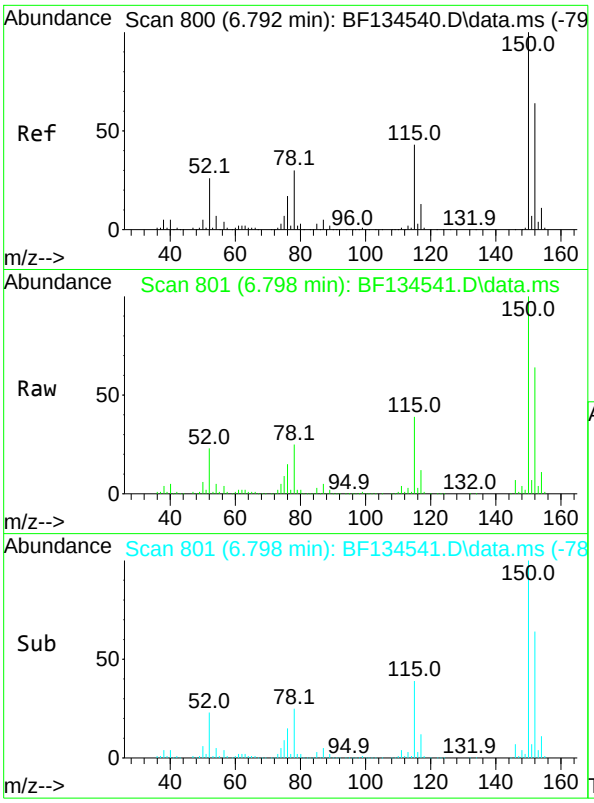
Quant Time: Aug 02 02:14:53 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 02 02:08:18 2023
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

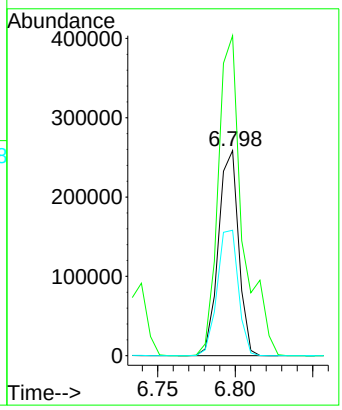




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.798 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF134541.D
Acq: 01 Aug 2023 10:44

Tgt Ion:152 Resp: 23440

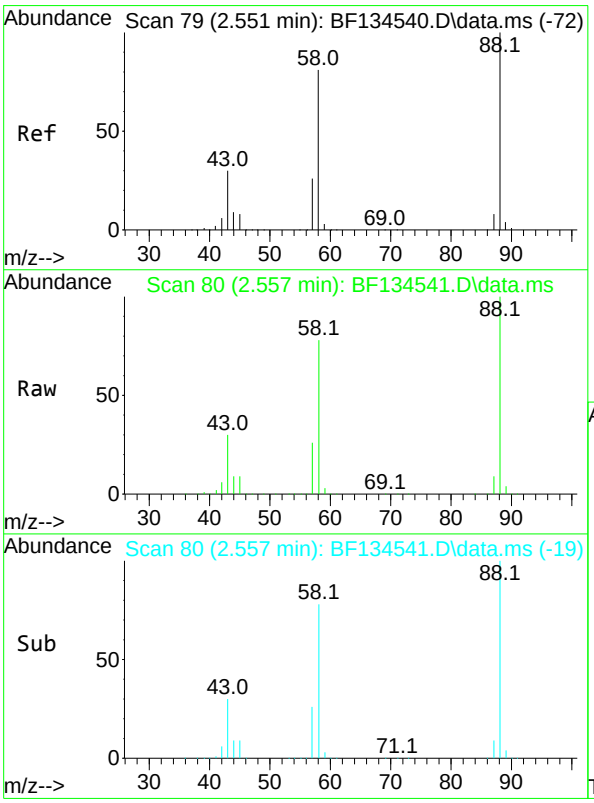
Ion	Ratio	Lower	Upper
152	100		
150	156.0	128.3	192.5
115	61.1	52.4	78.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

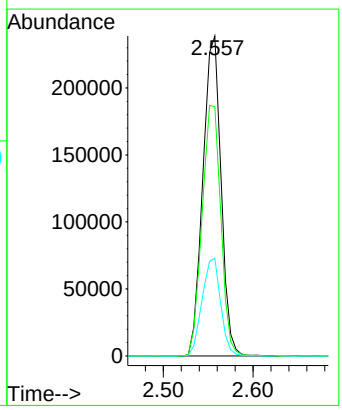
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

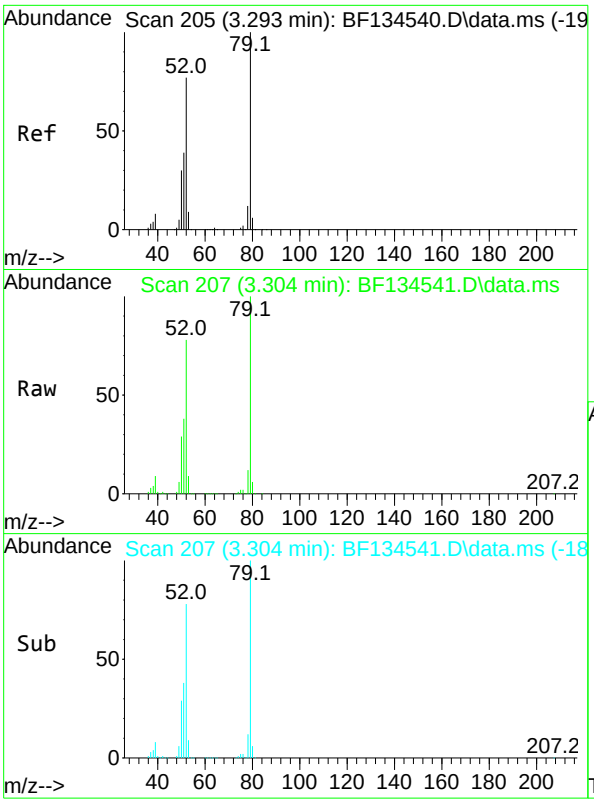


#2
1,4-Dioxane
Concen: 47.293 ng
RT: 2.557 min Scan# 80
Delta R.T. 0.006 min
Lab File: BF134541.D
Acq: 01 Aug 2023 10:44

Tgt Ion: 88 Resp: 335539

Ion	Ratio	Lower	Upper
88	100		
58	80.9	65.1	97.7
43	31.3	30.3	45.5

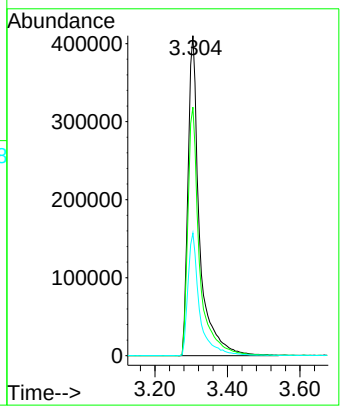




#3
Pyridine
Concen: 47.164 ng
RT: 3.304 min Scan# 2
Delta R.T. 0.012 min
Lab File: BF134541.D
Acq: 01 Aug 2023 10:44

Tgt Ion: 79 Resp: 90673

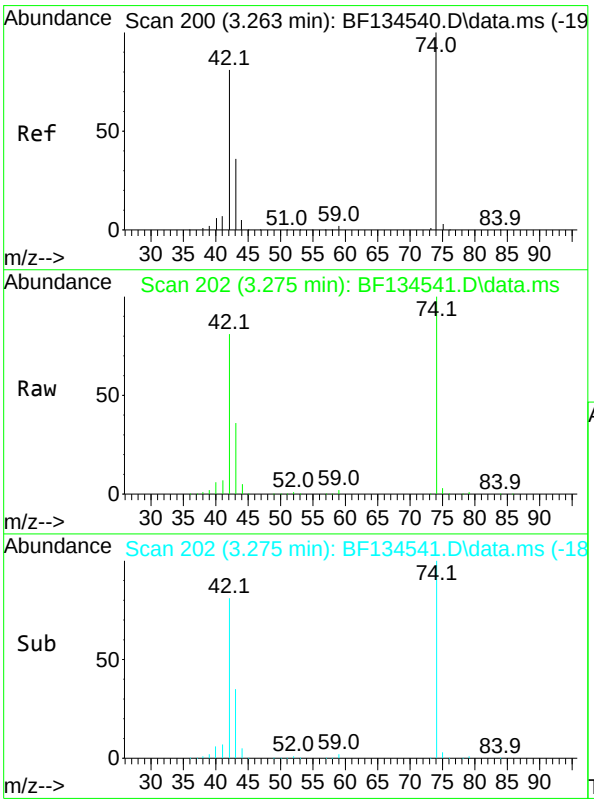
Ion	Ratio	Lower	Upper
79	100		
52	77.7	66.6	100.0
51	38.3	36.5	54.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

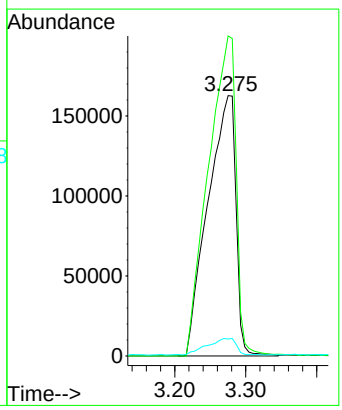
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

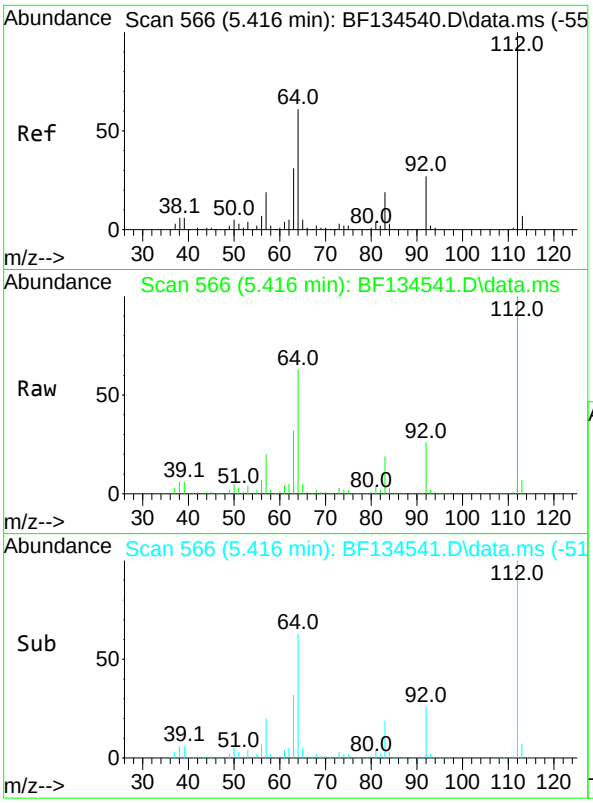


#4
n-Nitrosodimethylamine
Concen: 48.388 ng
RT: 3.275 min Scan# 202
Delta R.T. 0.012 min
Lab File: BF134541.D
Acq: 01 Aug 2023 10:44

Tgt Ion: 42 Resp: 444491

Ion	Ratio	Lower	Upper
42	100		
74	122.9	72.2	108.4#
44	6.5	5.4	8.0

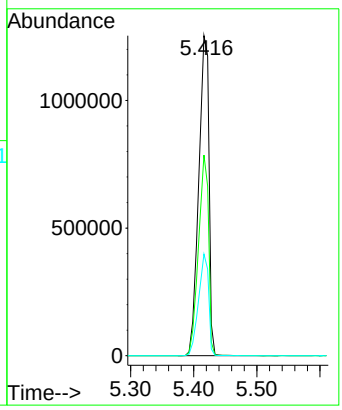




#5
2-Fluorophenol
Concen: 91.385 ng
RT: 5.416 min Scan# 5
Delta R.T. 0.000 min
Lab File: BF134541.D
Acq: 01 Aug 2023 10:44

Tgt Ion:112 Resp: 140918

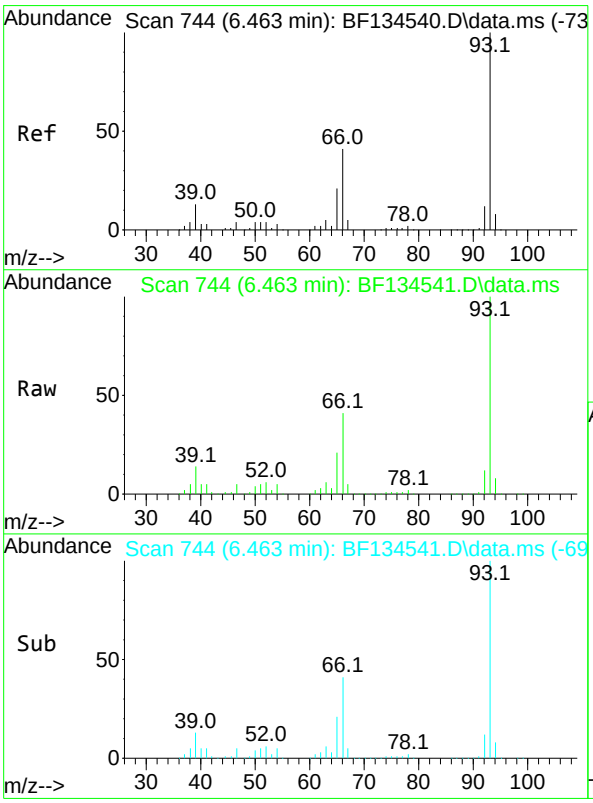
Ion	Ratio	Lower	Upper
112	100		
64	62.7	44.9	67.3
63	31.7	25.4	38.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

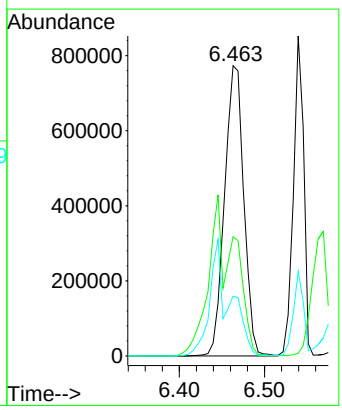
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

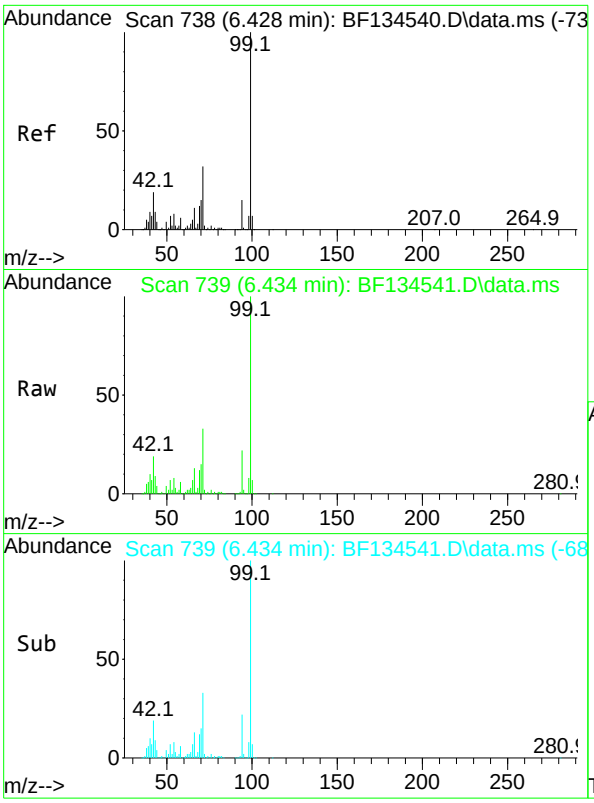


#6
Aniline
Concen: 46.894 ng
RT: 6.463 min Scan# 744
Delta R.T. 0.000 min
Lab File: BF134541.D
Acq: 01 Aug 2023 10:44

Tgt Ion: 93 Resp: 1212447

Ion	Ratio	Lower	Upper
93	100		
66	41.1	36.8	55.2
65	20.5	19.4	29.0

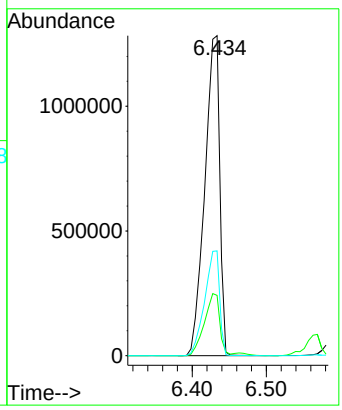




#7
Phenol-d6
Concen: 91.251 ng
RT: 6.434 min Scan# 7
Delta R.T. 0.006 min
Lab File: BF134541.D
Acq: 01 Aug 2023 10:44

Tgt Ion: 99 Resp: 179873

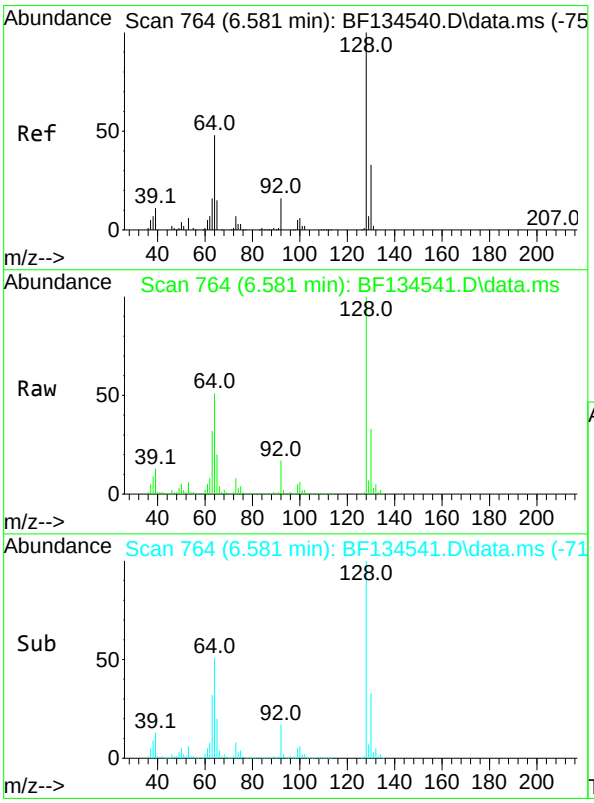
Ion	Ratio	Lower	Upper
99	100		
42	18.9	18.7	28.1
71	32.8	36.4	54.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

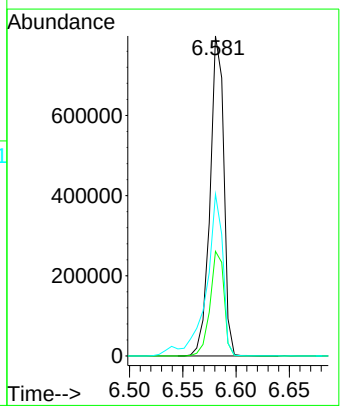
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

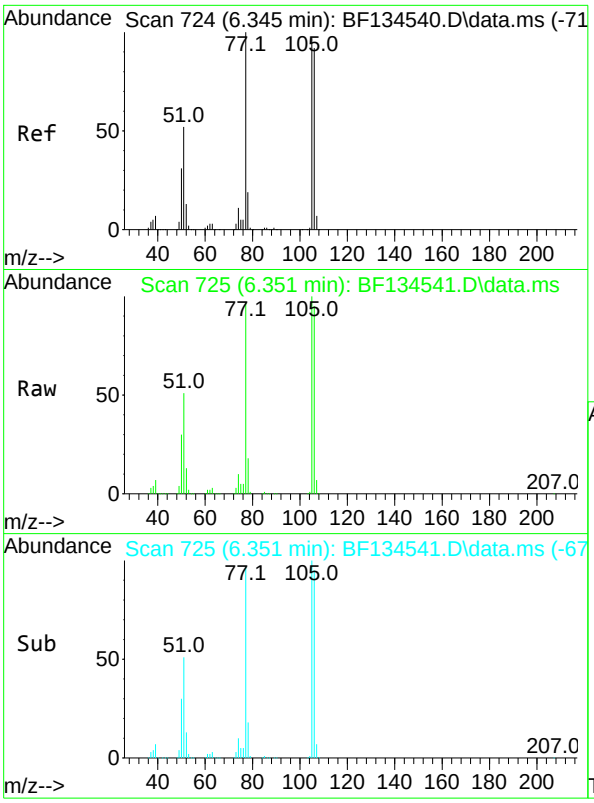


#8
2-Chlorophenol
Concen: 46.221 ng
RT: 6.581 min Scan# 764
Delta R.T. 0.000 min
Lab File: BF134541.D
Acq: 01 Aug 2023 10:44

Tgt Ion:128 Resp: 718992

Ion	Ratio	Lower	Upper
128	100		
130	32.7	11.1	51.1
64	50.6	31.9	71.9

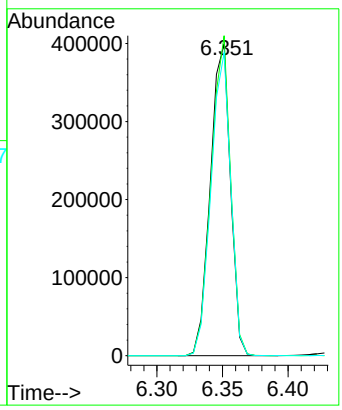




#9
Benzaldehyde
Concen: 48.879 ng
RT: 6.351 min Scan# 7
Delta R.T. 0.006 min
Lab File: BF134541.D
Acq: 01 Aug 2023 10:44

Tgt Ion: 77 Resp: 42549

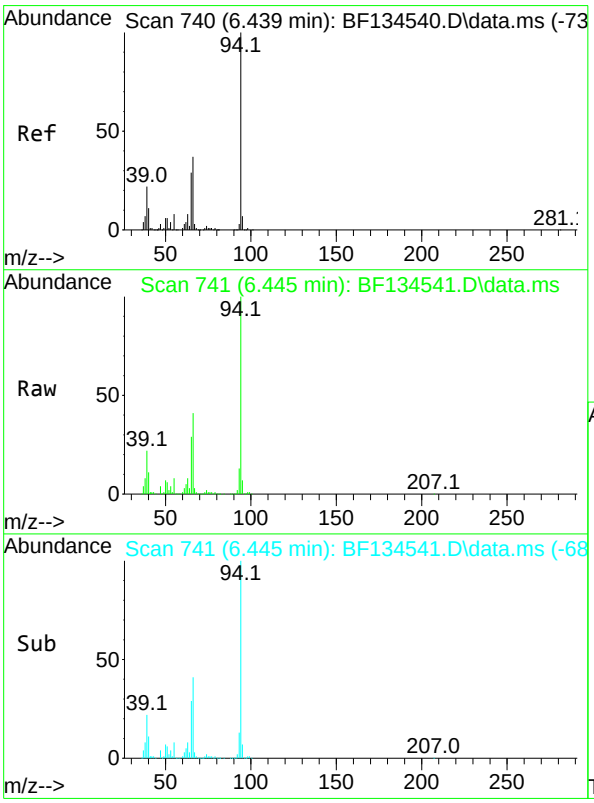
Ion	Ratio	Lower	Upper
77	100		
105	102.7	77.1	117.1
106	97.2	71.4	111.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

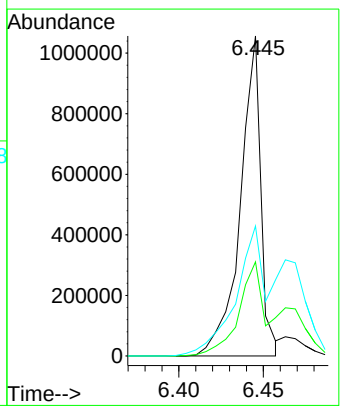
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

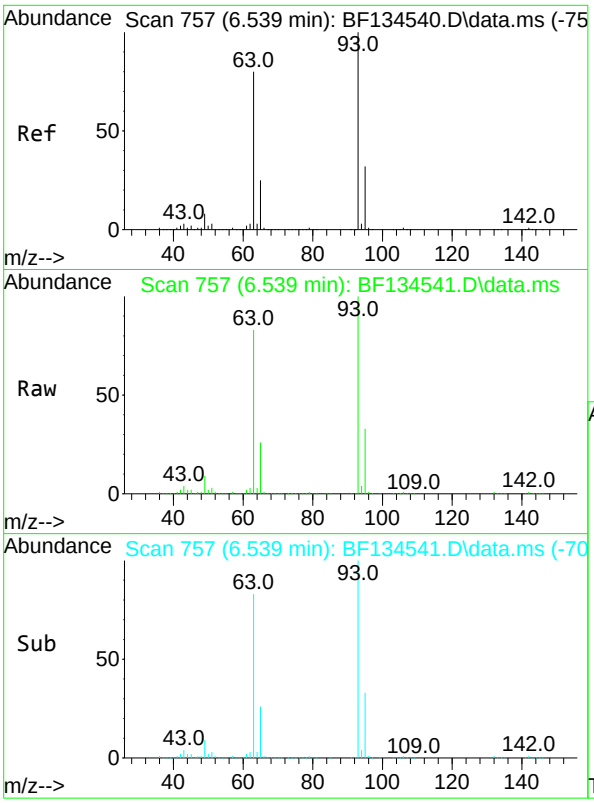


#10
Phenol
Concen: 45.867 ng m
RT: 6.445 min Scan# 741
Delta R.T. 0.006 min
Lab File: BF134541.D
Acq: 01 Aug 2023 10:44

Tgt Ion: 94 Resp: 891027

Ion	Ratio	Lower	Upper
94	100		
65	29.4	17.8	57.8
66	40.6	35.2	75.2

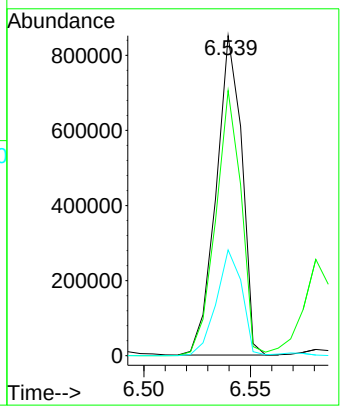




#11
bis(2-Chloroethyl)ether
Concen: 46.324 ng
RT: 6.539 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF134541.D
Acq: 01 Aug 2023 10:44

Tgt Ion: 93 Resp: 71483

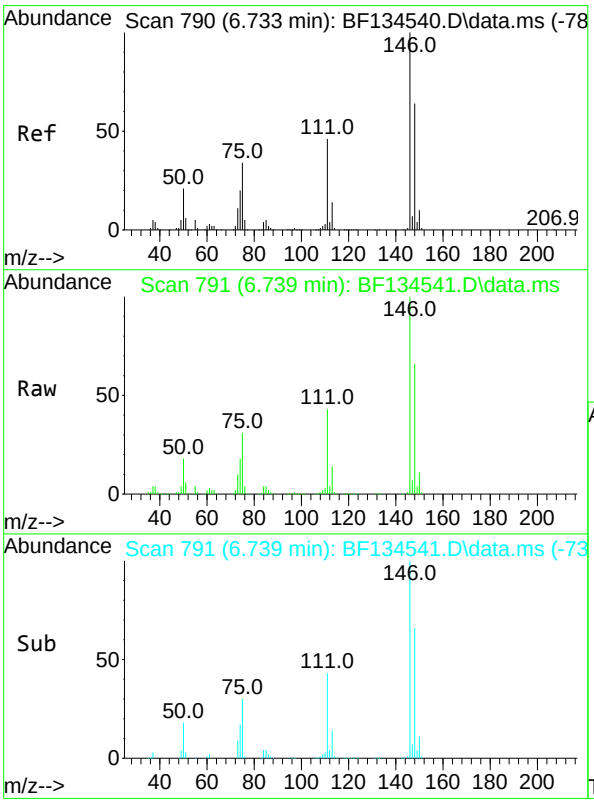
Ion	Ratio	Lower	Upper
93	100		
63	82.9	68.4	108.4
95	33.0	12.4	52.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

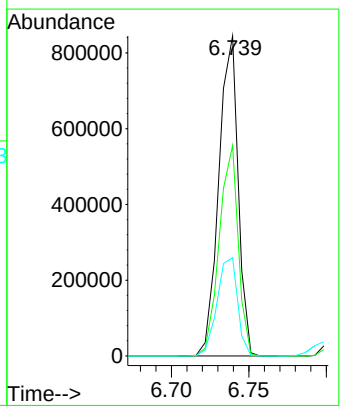
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

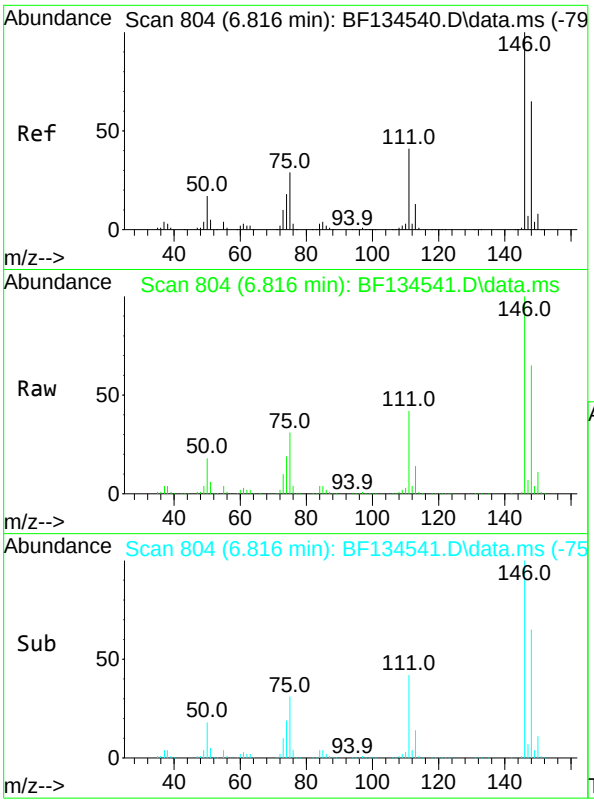


#12
1,3-Dichlorobenzene
Concen: 45.485 ng
RT: 6.739 min Scan# 791
Delta R.T. 0.006 min
Lab File: BF134541.D
Acq: 01 Aug 2023 10:44

Tgt Ion:146 Resp: 732054

Ion	Ratio	Lower	Upper
146	100		
148	65.8	49.7	74.5
75	30.8	29.5	44.3

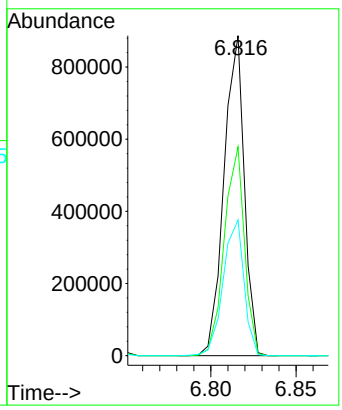




#13
1,4-Dichlorobenzene
Concen: 45.644 ng
RT: 6.816 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF134541.D
Acq: 01 Aug 2023 10:44

Tgt Ion:146 Resp: 73623

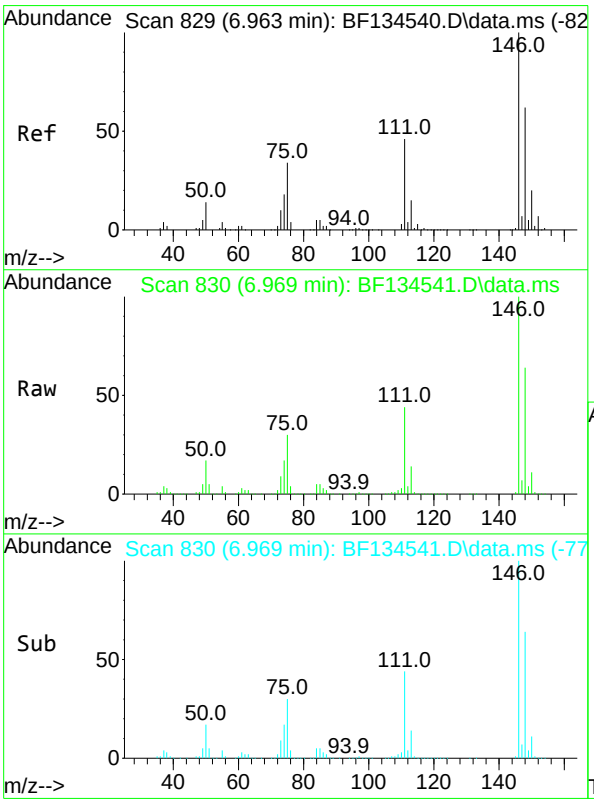
Ion	Ratio	Lower	Upper
146	100		
148	65.2	51.3	76.9
111	42.4	36.6	55.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

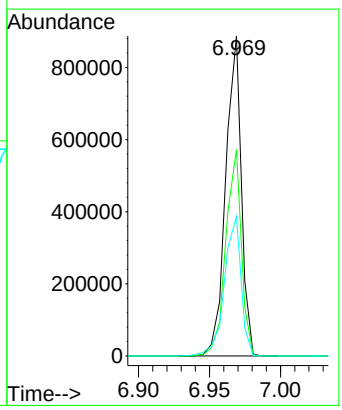
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

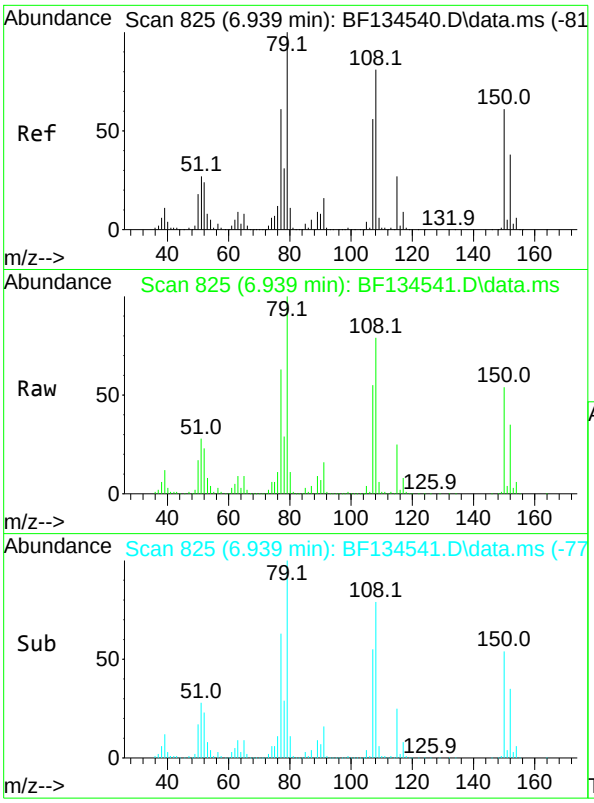


#14
1,2-Dichlorobenzene
Concen: 45.039 ng
RT: 6.969 min Scan# 830
Delta R.T. 0.006 min
Lab File: BF134541.D
Acq: 01 Aug 2023 10:44

Tgt Ion:146 Resp: 676877

Ion	Ratio	Lower	Upper
146	100		
148	64.5	51.2	76.8
111	43.6	39.9	59.9

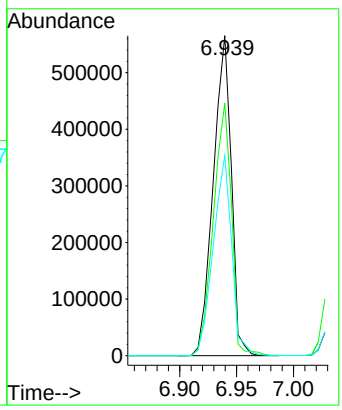




#15
Benzyl Alcohol
Concen: 45.888 ng
RT: 6.939 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF134541.D
Acq: 01 Aug 2023 10:44

Tgt Ion: 79 Resp: 62401

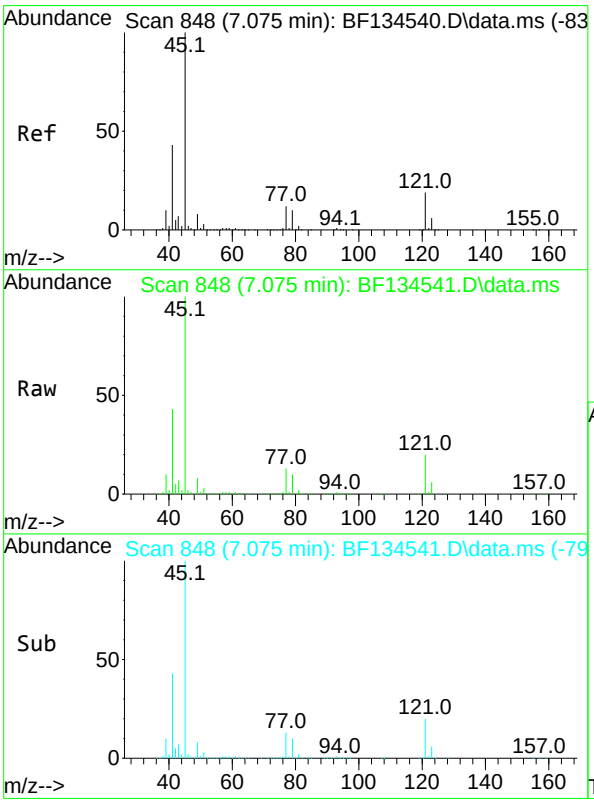
Ion	Ratio	Lower	Upper
79	100		
108	78.9	56.3	84.5
77	62.5	50.6	76.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

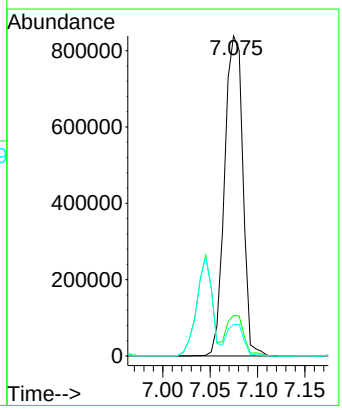
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

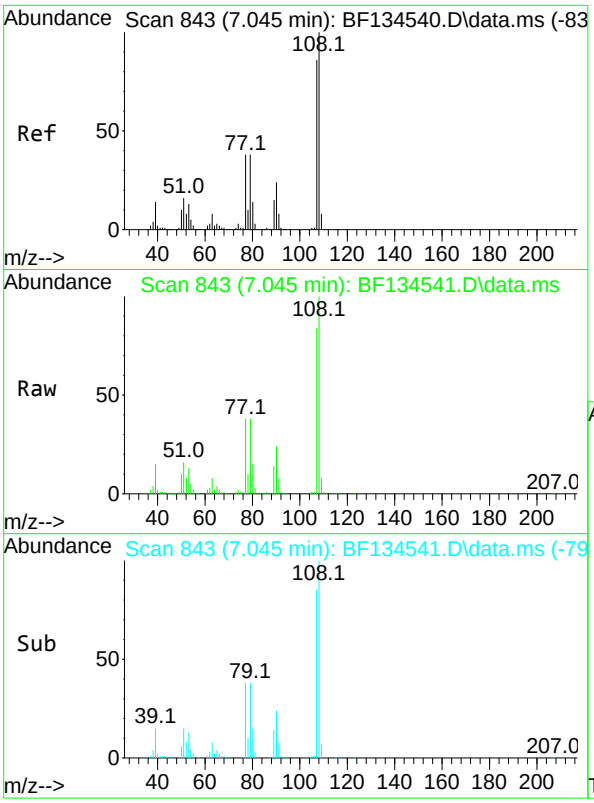


#16
2,2'-oxybis(1-Chloropropane)
Concen: 46.458 ng
RT: 7.075 min Scan# 848
Delta R.T. 0.000 min
Lab File: BF134541.D
Acq: 01 Aug 2023 10:44

Tgt Ion: 45 Resp: 1123161

Ion	Ratio	Lower	Upper
45	100		
77	12.6	0.0	37.8
79	9.8	0.0	34.5

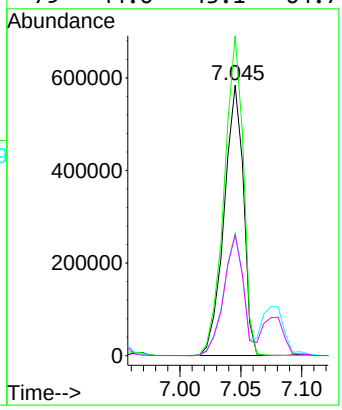




#17
2-Methylphenol
Concen: 46.929 ng
RT: 7.045 min Scan# 84
Delta R.T. 0.000 min
Lab File: BF134541.D
Acq: 01 Aug 2023 10:44

Tgt Ion:107 Resp: 64508

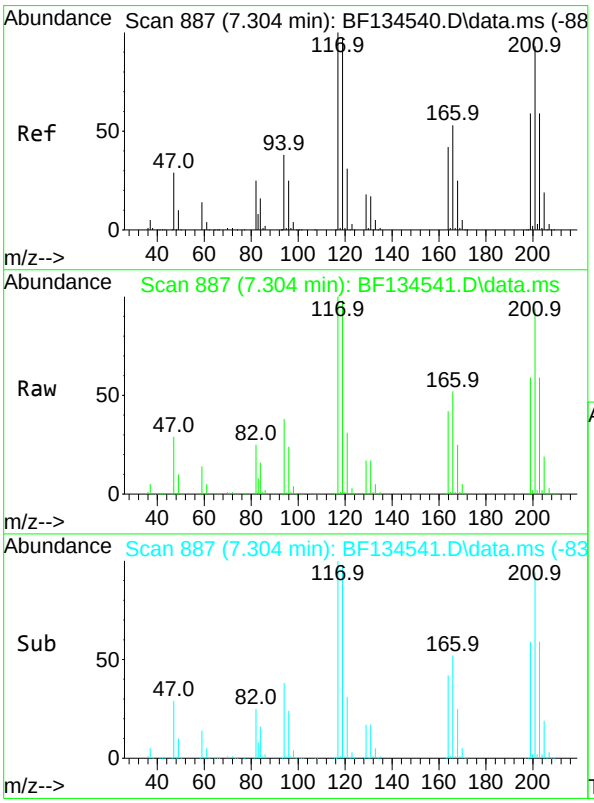
Ion	Ratio	Lower	Upper
107	100		
108	118.4	89.4	134.2
77	45.3	42.4	63.6
79	44.6	43.1	64.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

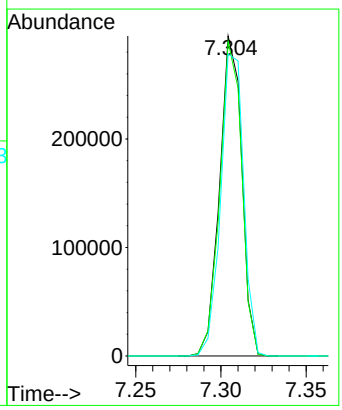
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

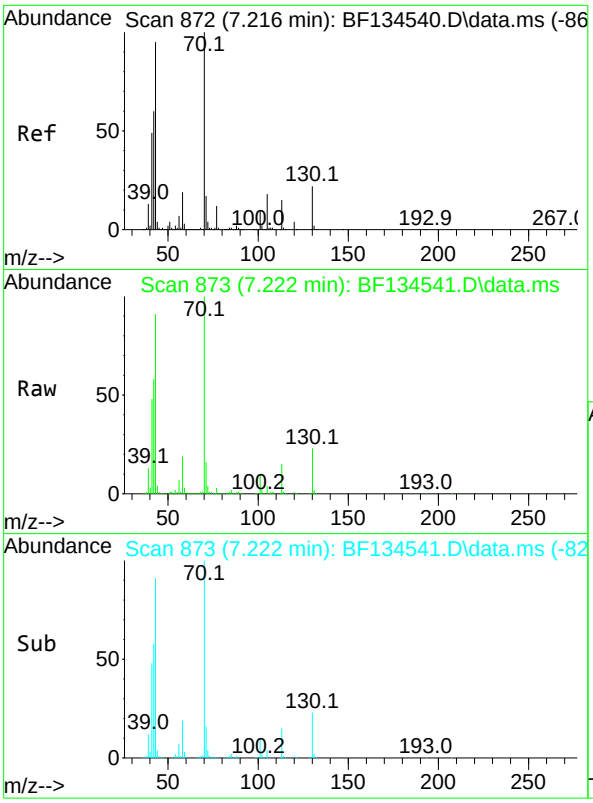


#18
Hexachloroethane
Concen: 47.235 ng
RT: 7.304 min Scan# 887
Delta R.T. 0.000 min
Lab File: BF134541.D
Acq: 01 Aug 2023 10:44

Tgt Ion:117 Resp: 267402

Ion	Ratio	Lower	Upper
117	100		
119	98.2	75.8	113.8
201	94.3	73.6	110.4

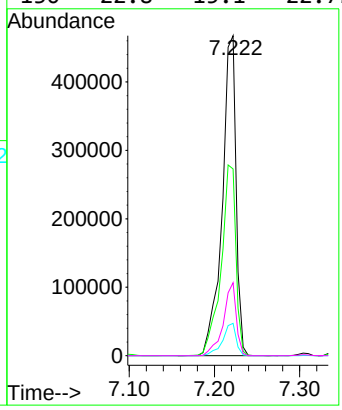




#19
n-Nitroso-di-n-propylamine
Concen: 45.092 ng
RT: 7.222 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF134541.D
Acq: 01 Aug 2023 10:44

Tgt Ion: 70 Resp: 53218

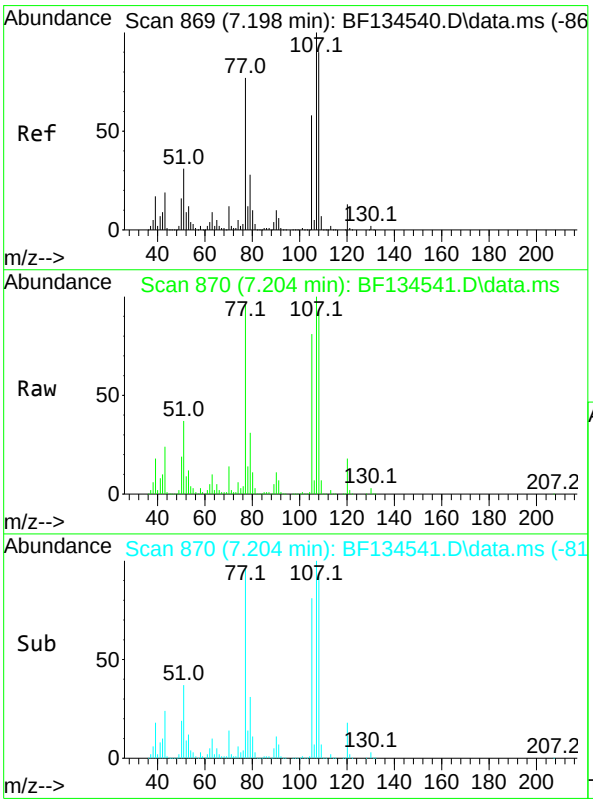
Ion	Ratio	Lower	Upper
70	100		
42	58.4	54.7	82.1
101	10.1	8.2	12.2
130	22.8	15.1	22.7#



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

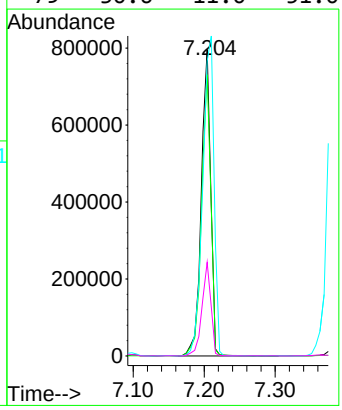
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

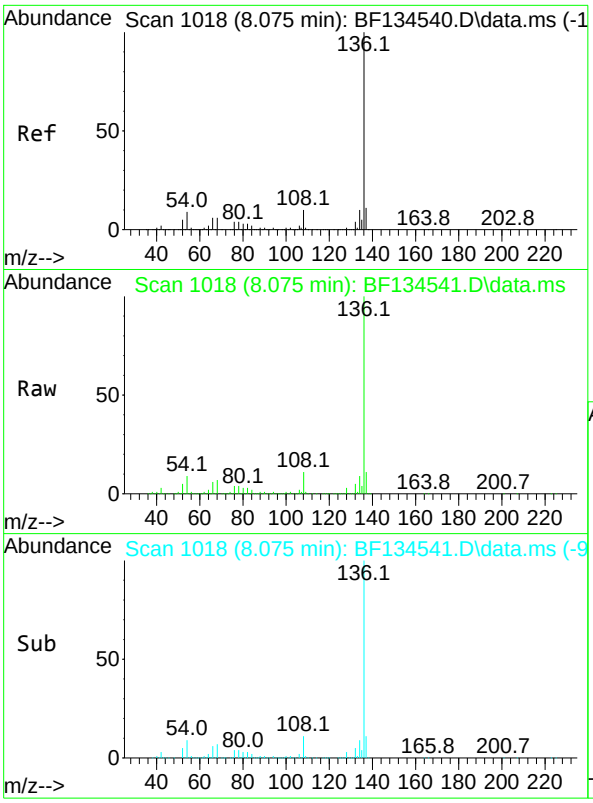


#20
3+4-Methylphenols
Concen: 44.464 ng
RT: 7.204 min Scan# 870
Delta R.T. 0.006 min
Lab File: BF134541.D
Acq: 01 Aug 2023 10:44

Tgt Ion:107 Resp: 737097

Ion	Ratio	Lower	Upper
107	100		
108	91.8	68.1	108.1
77	96.2	122.1	162.1#
79	30.6	11.0	51.0

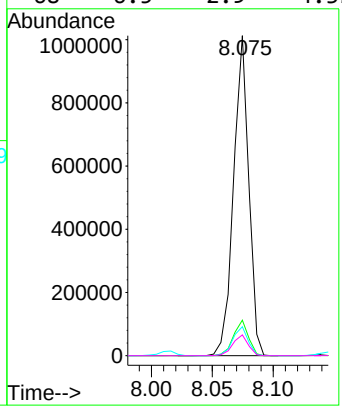




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.075 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134541.D
Acq: 01 Aug 2023 10:44

Tgt Ion:136 Resp: 87803

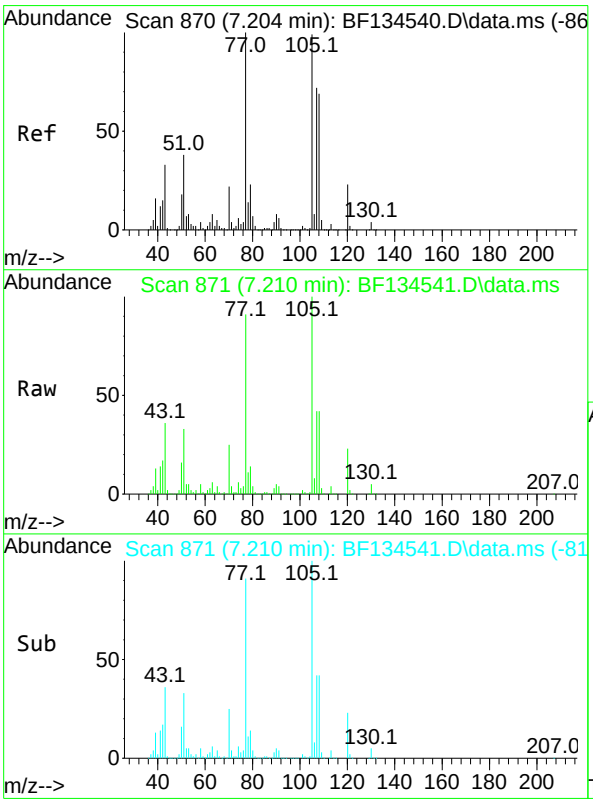
Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.4	12.6
54	9.0	5.2	7.8#
68	6.5	2.9	4.3#



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

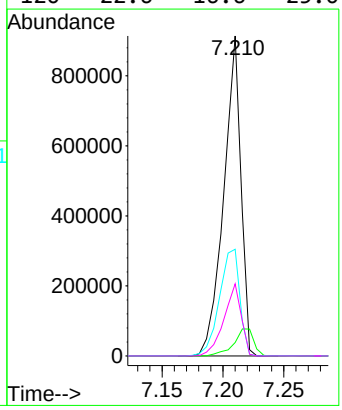
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

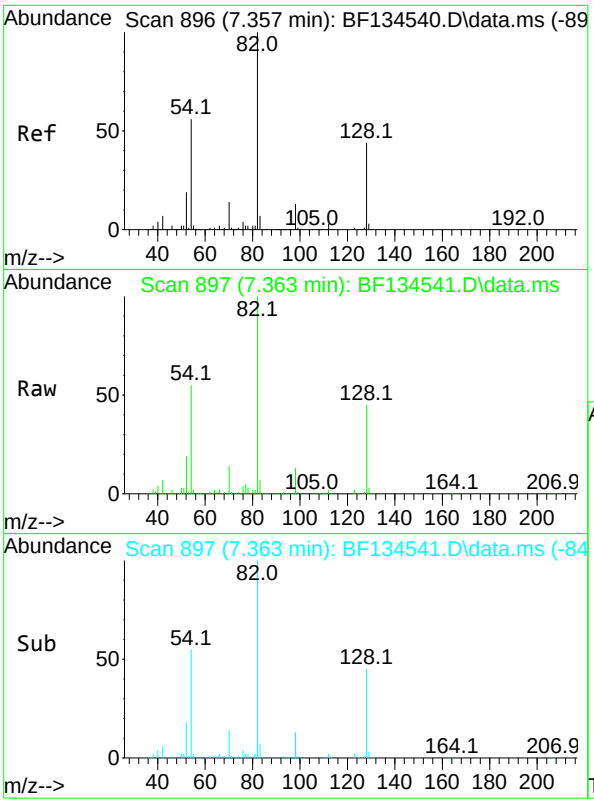


#22
Acetophenone
Concen: 44.358 ng
RT: 7.210 min Scan# 871
Delta R.T. 0.006 min
Lab File: BF134541.D
Acq: 01 Aug 2023 10:44

Tgt Ion:105 Resp: 899148

Ion	Ratio	Lower	Upper
105	100		
71	4.2	7.4	11.0#
51	33.3	36.4	54.6#
120	22.6	16.6	25.0

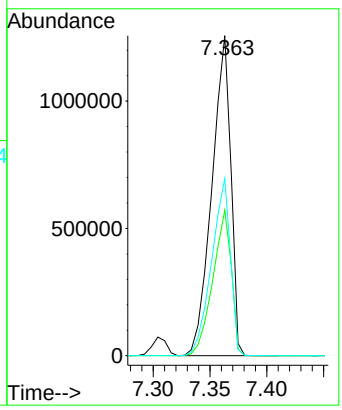




#23
Nitrobenzene-d5
Concen: 103.494 ng
RT: 7.363 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF134541.D
Acq: 01 Aug 2023 10:44

Tgt Ion: 82 Resp: 145410

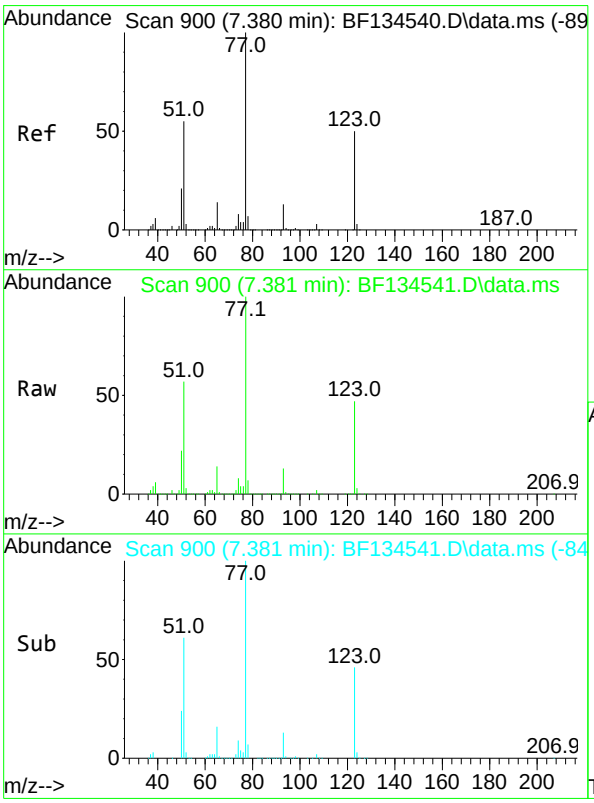
Ion	Ratio	Lower	Upper
82	100		
128	45.5	34.3	51.5
54	55.3	43.8	65.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

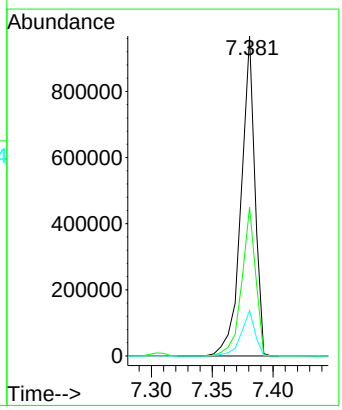
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

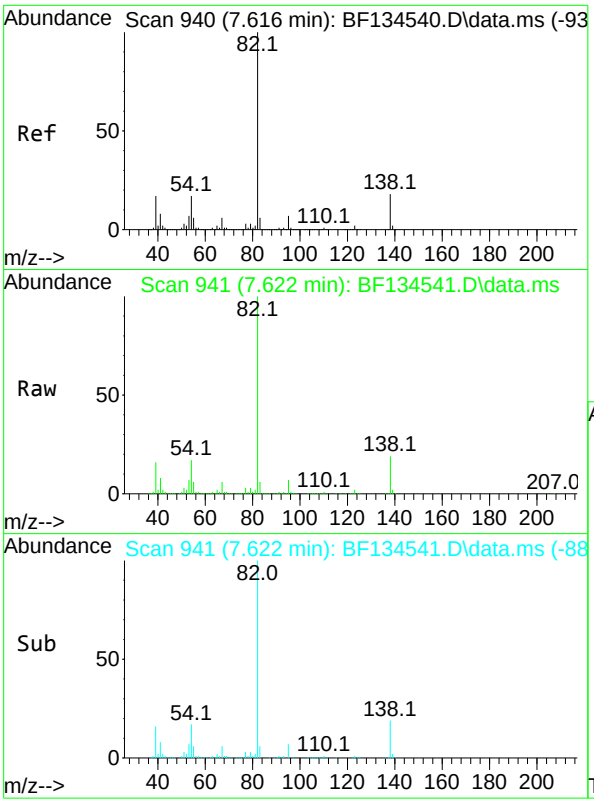


#24
Nitrobenzene
Concen: 50.108 ng
RT: 7.381 min Scan# 900
Delta R.T. 0.000 min
Lab File: BF134541.D
Acq: 01 Aug 2023 10:44

Tgt Ion: 77 Resp: 760588

Ion	Ratio	Lower	Upper
77	100		
123	46.5	35.5	53.3
65	14.2	11.9	17.9





#25
Isophorone
Concen: 46.949 ng
RT: 7.622 min Scan# 94
Delta R.T. 0.006 min
Lab File: BF134541.D
Acq: 01 Aug 2023 10:44

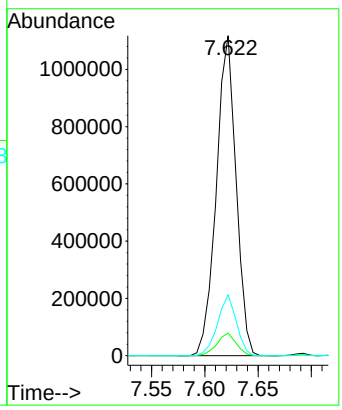
Tgt Ion: 82 Resp: 143873

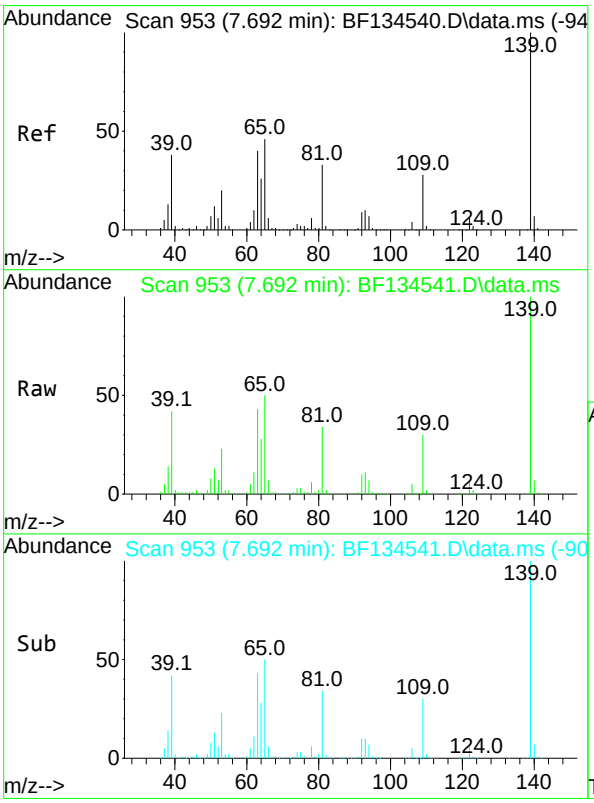
Ion	Ratio	Lower	Upper
82	100		
95	7.0	6.0	9.0
138	19.0	14.6	22.0

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

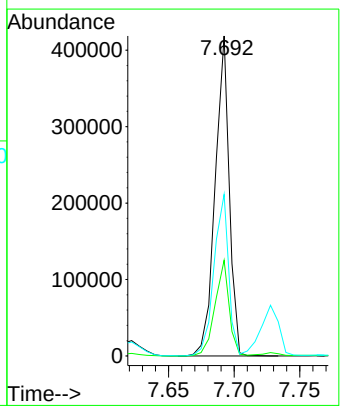


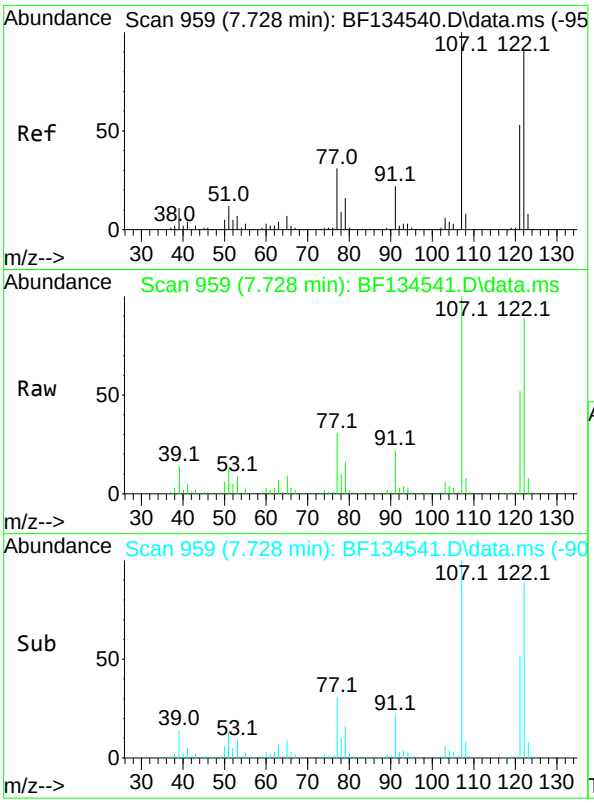


#26
2-Nitrophenol
Concen: 48.423 ng
RT: 7.692 min Scan# 953
Delta R.T. 0.000 min
Lab File: BF134541.D
Acq: 01 Aug 2023 10:44

Tgt Ion:139 Resp: 313072

Ion	Ratio	Lower	Upper
139	100		
109	29.9	29.8	44.6
65	50.5	45.4	68.2

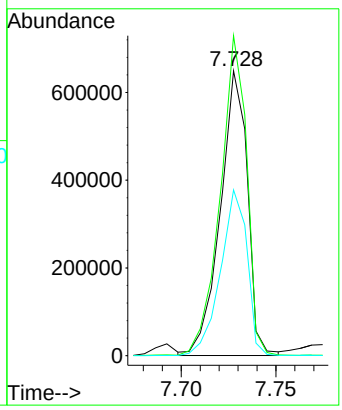




#27
2,4-Dimethylphenol
Concen: 47.133 ng
RT: 7.728 min Scan# 9
Delta R.T. -0.000 min
Lab File: BF134541.D
Acq: 01 Aug 2023 10:44

Tgt Ion:122 Resp: 64447

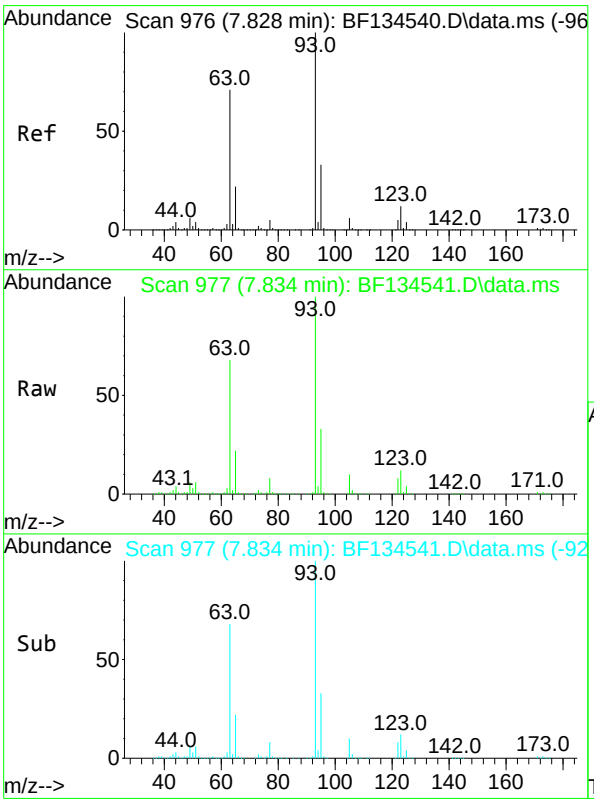
Ion	Ratio	Lower	Upper
122	100		
107	112.4	106.7	160.1
121	58.2	49.0	73.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

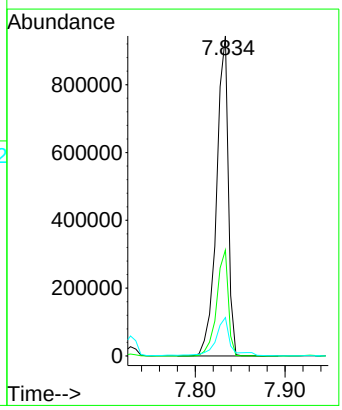
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

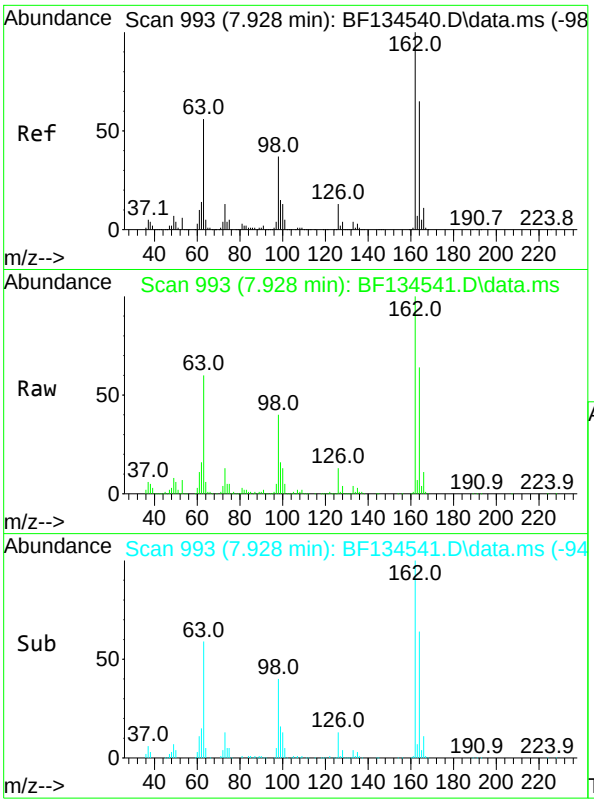


#28
bis(2-Chloroethoxy)methane
Concen: 46.673 ng
RT: 7.834 min Scan# 977
Delta R.T. 0.006 min
Lab File: BF134541.D
Acq: 01 Aug 2023 10:44

Tgt Ion: 93 Resp: 855595

Ion	Ratio	Lower	Upper
93	100		
95	33.1	26.5	39.7
123	12.0	9.6	14.4

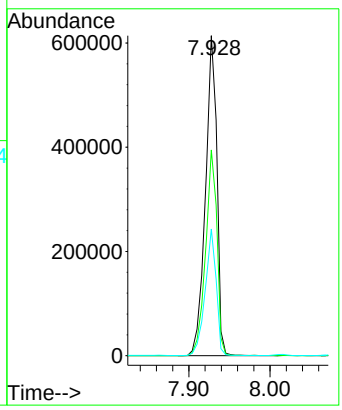




#29
2,4-Dichlorophenol
Concen: 48.254 ng
RT: 7.928 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF134541.D
Acq: 01 Aug 2023 10:44

Tgt Ion:162 Resp: 59883

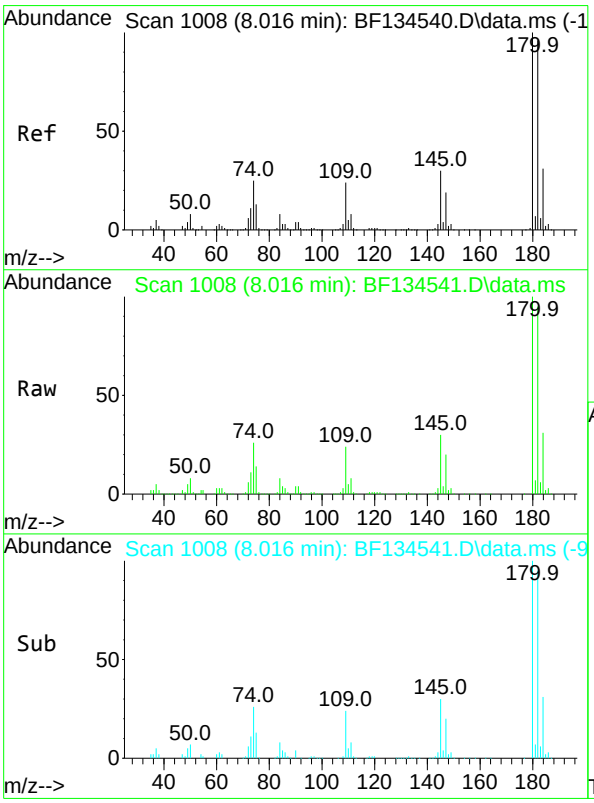
Ion	Ratio	Lower	Upper
162	100		
164	64.3	42.2	82.2
98	39.6	15.5	55.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

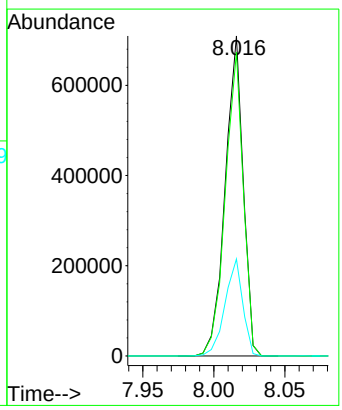
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

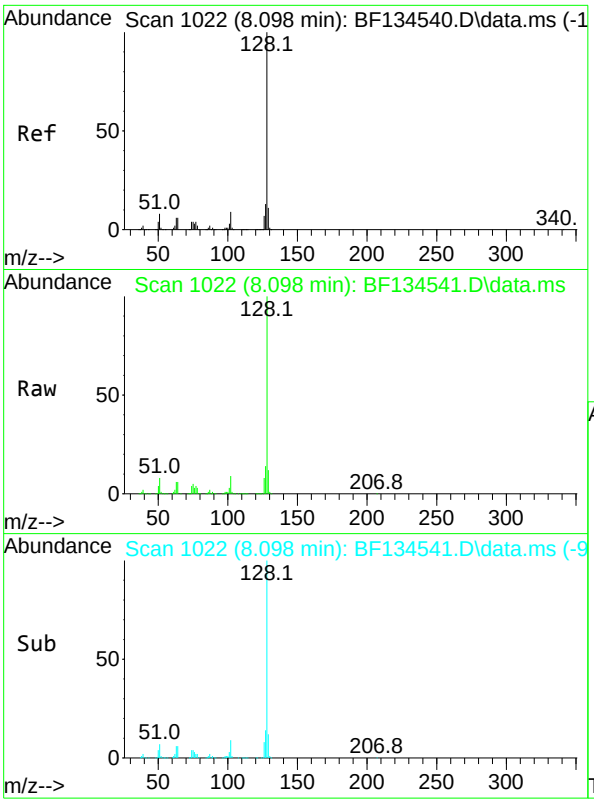


#30
1,2,4-Trichlorobenzene
Concen: 47.109 ng
RT: 8.016 min Scan# 1008
Delta R.T. 0.000 min
Lab File: BF134541.D
Acq: 01 Aug 2023 10:44

Tgt Ion:180 Resp: 623430

Ion	Ratio	Lower	Upper
180	100		
182	94.9	75.0	112.6
145	30.3	25.5	38.3

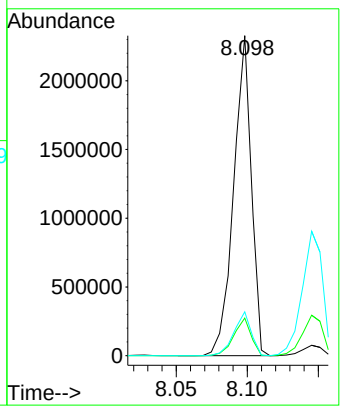




#31
Naphthalene
Concen: 45.829 ng
RT: 8.098 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134541.D
Acq: 01 Aug 2023 10:44

Tgt Ion:128 Resp: 202236

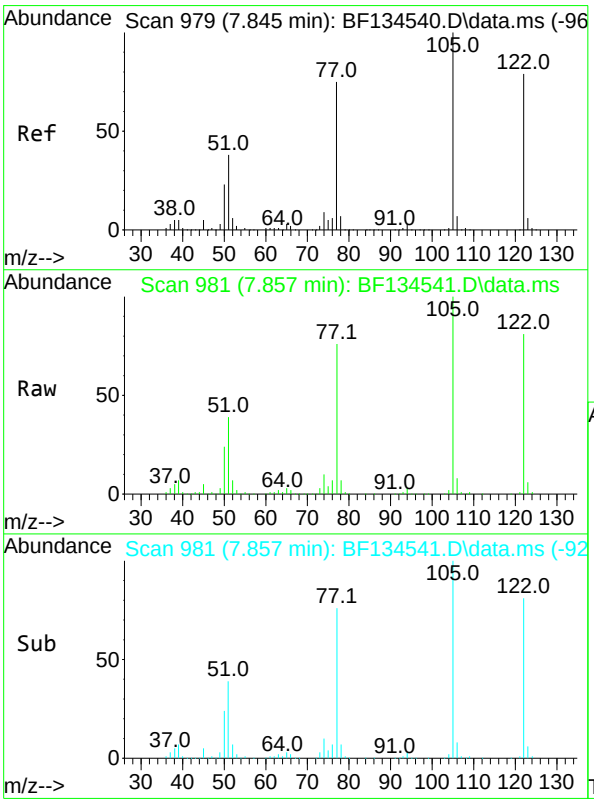
Ion	Ratio	Lower	Upper
128	100		
129	11.7	8.4	12.6
127	13.7	10.7	16.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

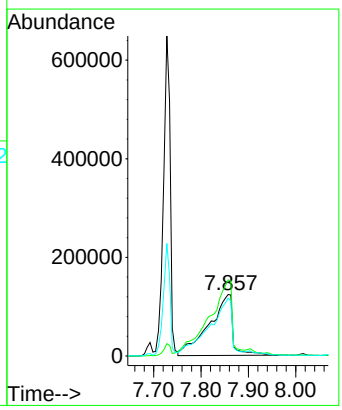
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

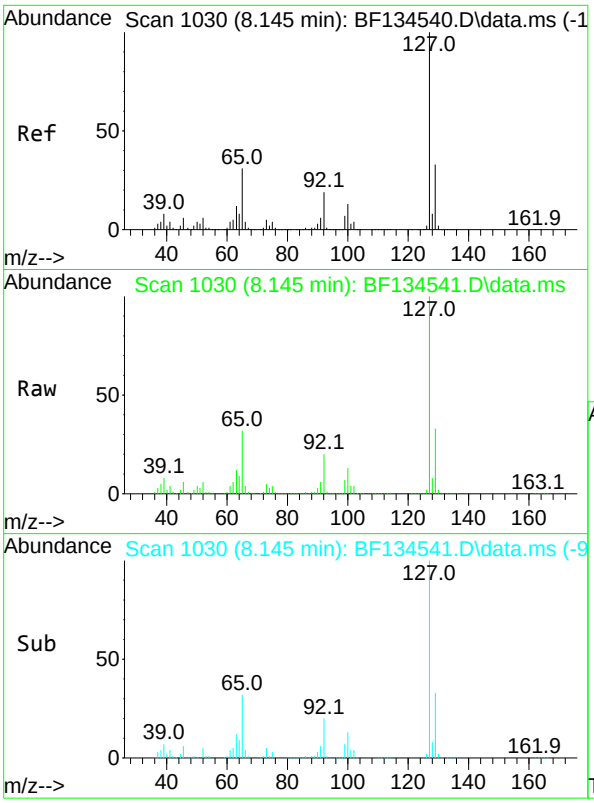


#32
Benzoic acid
Concen: 48.802 ng
RT: 7.857 min Scan# 981
Delta R.T. 0.012 min
Lab File: BF134541.D
Acq: 01 Aug 2023 10:44

Tgt Ion:122 Resp: 436693

Ion	Ratio	Lower	Upper
122	100		
105	124.1	87.5	127.5
77	94.2	71.4	111.4

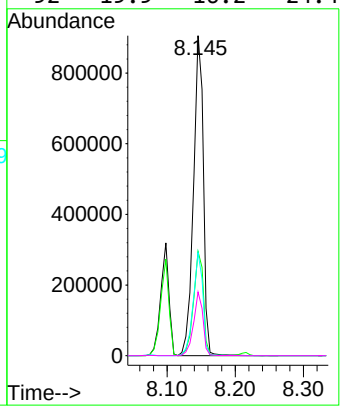




#33
4-Chloroaniline
Concen: 46.315 ng
RT: 8.145 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134541.D
Acq: 01 Aug 2023 10:44

Tgt Ion:127 Resp: 91065

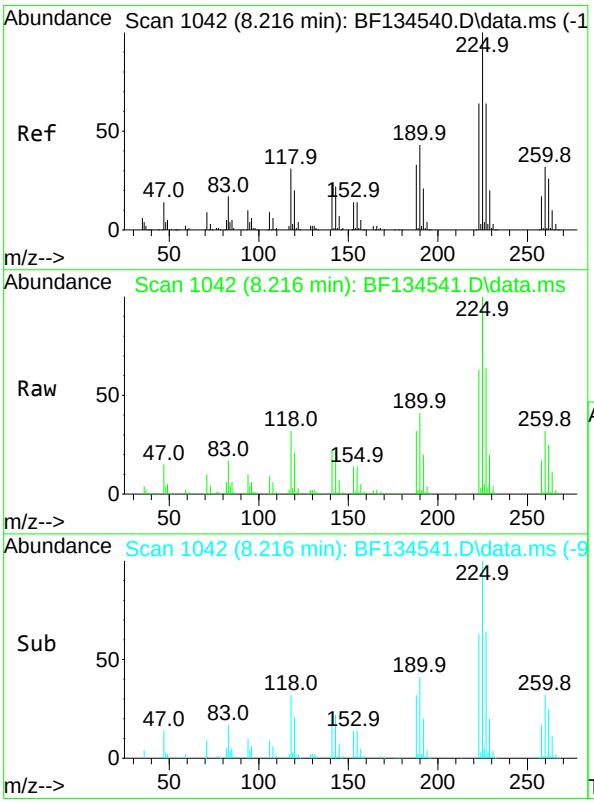
Ion	Ratio	Lower	Upper
127	100		
129	32.6	25.6	38.4
65	32.2	25.4	38.0
92	19.9	16.2	24.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

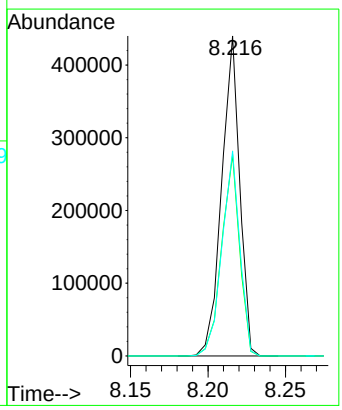
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

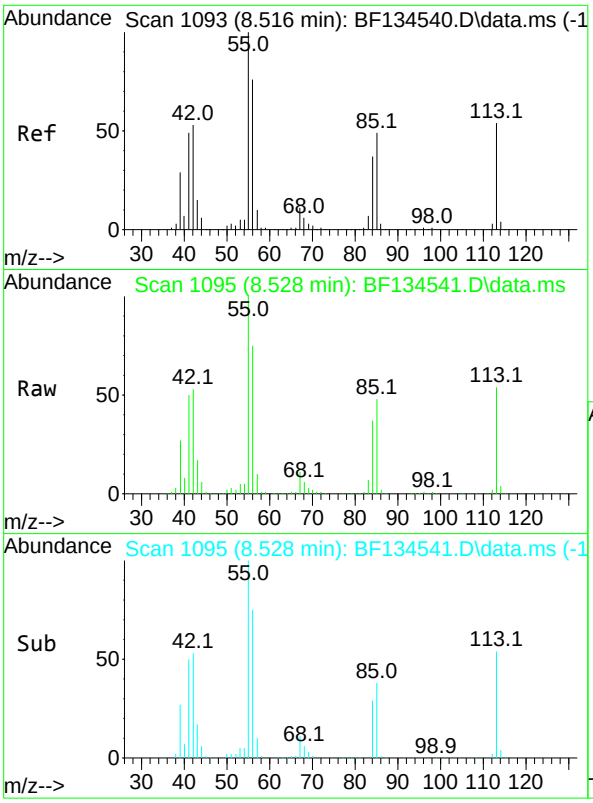


#34
Hexachlorobutadiene
Concen: 46.604 ng
RT: 8.216 min Scan# 1042
Delta R.T. 0.000 min
Lab File: BF134541.D
Acq: 01 Aug 2023 10:44

Tgt Ion:225 Resp: 355750

Ion	Ratio	Lower	Upper
225	100		
223	62.8	48.2	72.4
227	64.1	48.5	72.7

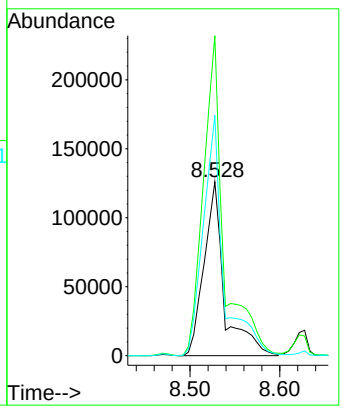




#35
Caprolactam
Concen: 49.573 ng
RT: 8.528 min Scan# 1
Delta R.T. 0.012 min
Lab File: BF134541.D
Acq: 01 Aug 2023 10:44

Tgt Ion:113 Resp: 19854

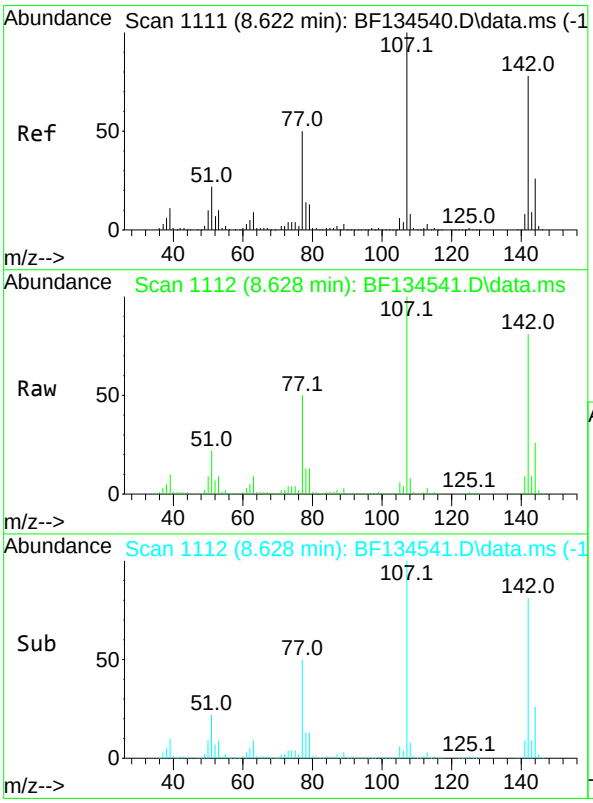
Ion	Ratio	Lower	Upper
113	100		
55	184.0	161.5	201.5
56	138.2	117.8	157.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

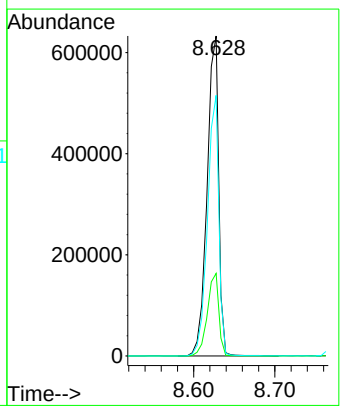
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

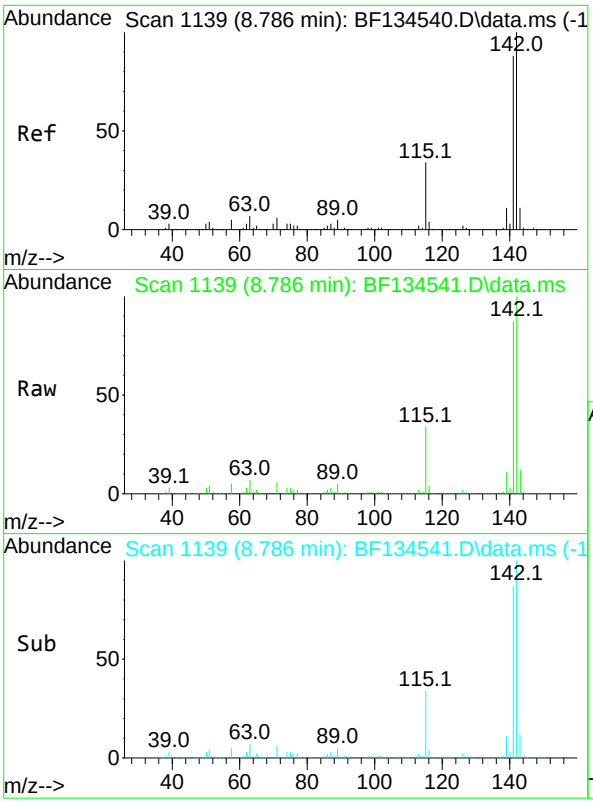


#36
4-Chloro-3-methylphenol
Concen: 47.695 ng
RT: 8.628 min Scan# 1112
Delta R.T. 0.006 min
Lab File: BF134541.D
Acq: 01 Aug 2023 10:44

Tgt Ion:107 Resp: 626849

Ion	Ratio	Lower	Upper
107	100		
144	25.8	19.6	29.4
142	81.5	57.7	86.5

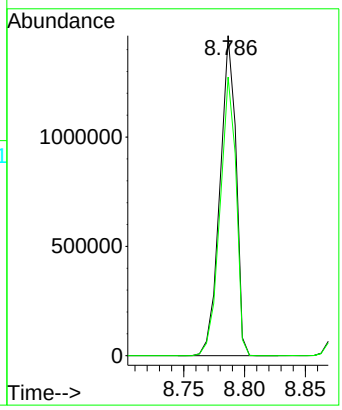




#37
2-Methylnaphthalene
Concen: 46.015 ng
RT: 8.786 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF134541.D
Acq: 01 Aug 2023 10:44

Tgt Ion:142 Resp: 134594

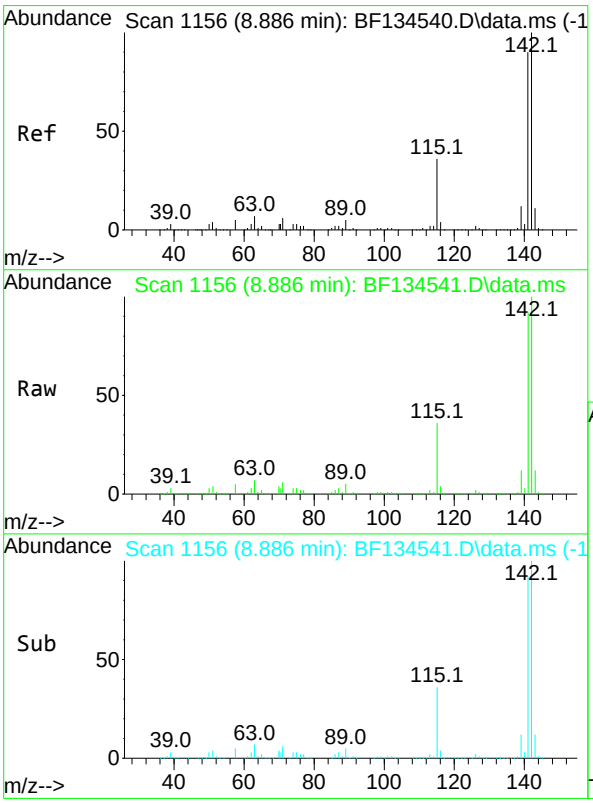
Ion	Ratio	Lower	Upper
142	100		
141	87.1	70.8	106.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

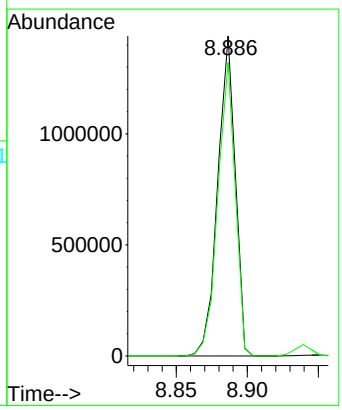
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

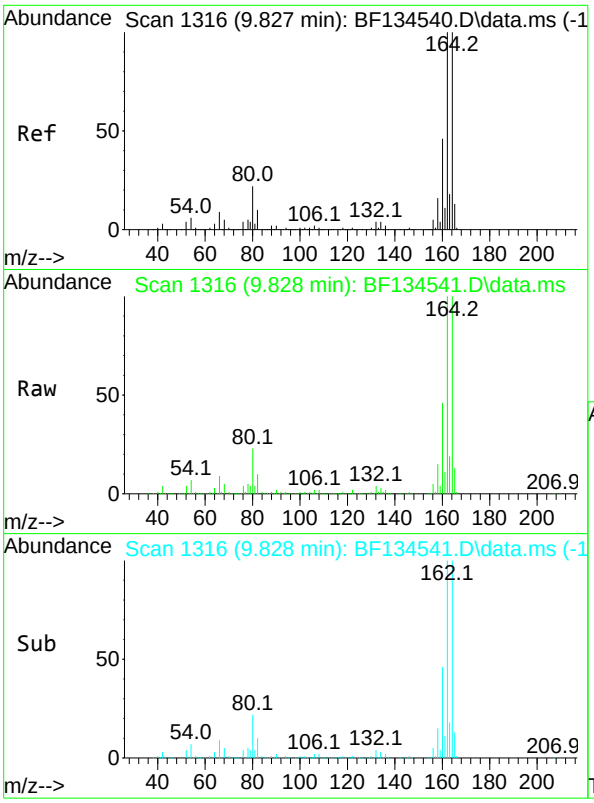


#38
1-Methylnaphthalene
Concen: 45.480 ng
RT: 8.886 min Scan# 1156
Delta R.T. 0.000 min
Lab File: BF134541.D
Acq: 01 Aug 2023 10:44

Tgt Ion:142 Resp: 1237030

Ion	Ratio	Lower	Upper
142	100		
141	91.8	71.4	107.2

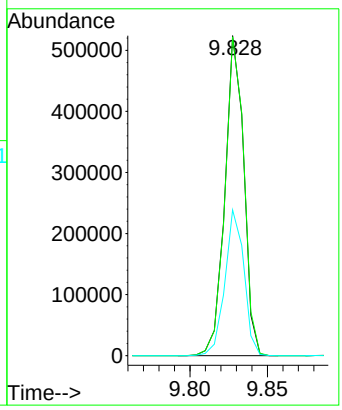




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.828 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134541.D
Acq: 01 Aug 2023 10:44

Tgt Ion:164 Resp: 44350

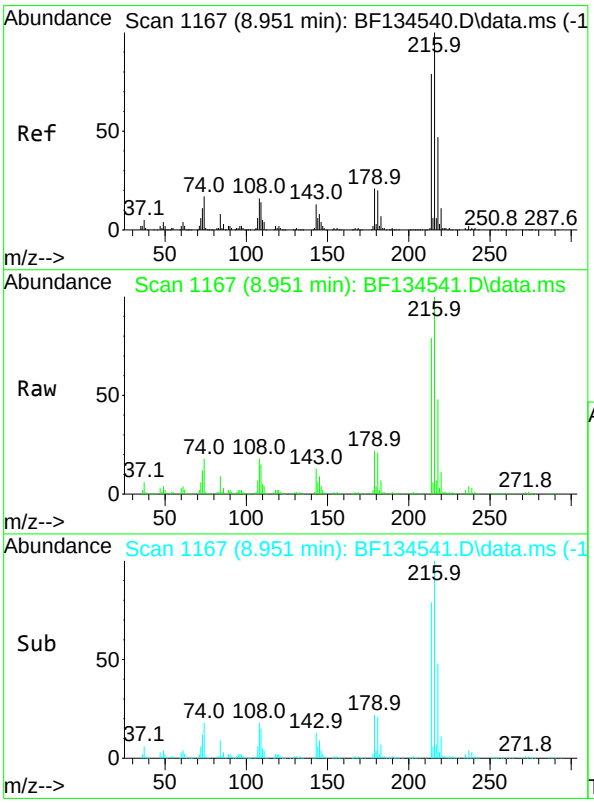
Ion	Ratio	Lower	Upper
164	100		
162	99.7	82.6	123.8
160	45.6	37.2	55.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

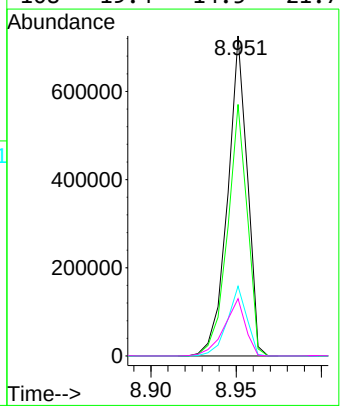
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

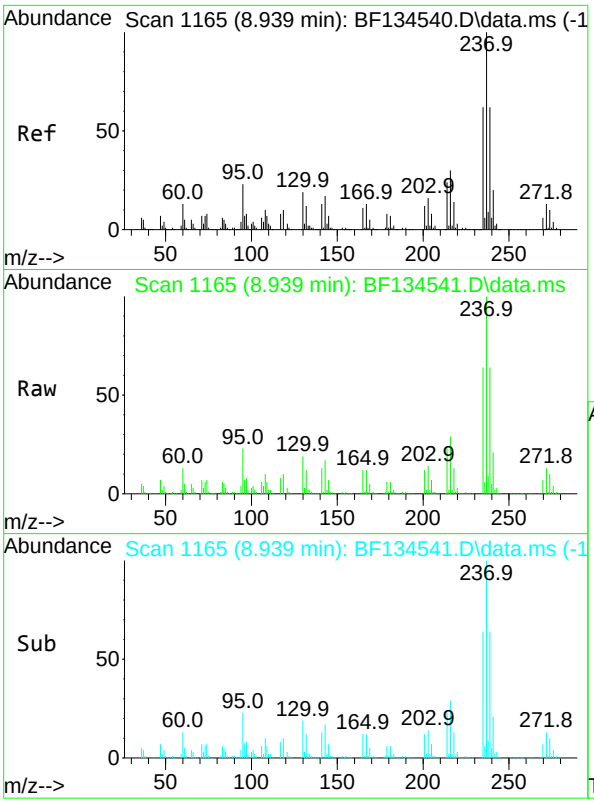


#40
1,2,4,5-Tetrachlorobenzene
Concen: 45.264 ng
RT: 8.951 min Scan# 1167
Delta R.T. 0.000 min
Lab File: BF134541.D
Acq: 01 Aug 2023 10:44

Tgt Ion:216 Resp: 583756

Ion	Ratio	Lower	Upper
216	100		
214	78.6	62.3	93.5
179	21.5	17.4	26.0
108	19.4	14.5	21.7





#41
Hexachlorocyclopentadiene
Concen: 50.953 ng
RT: 8.939 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF134541.D
Acq: 01 Aug 2023 10:44

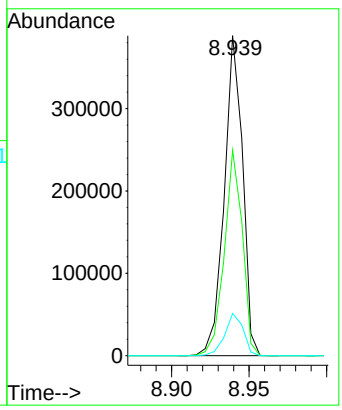
Tgt Ion:237 Resp: 31955

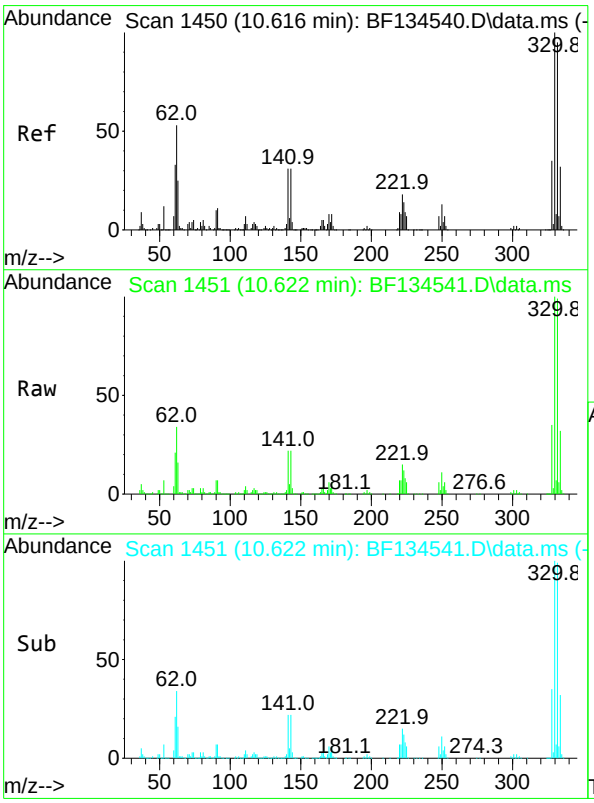
Ion	Ratio	Lower	Upper
237	100		
235	64.2	37.0	77.0
272	13.2	0.0	32.7

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

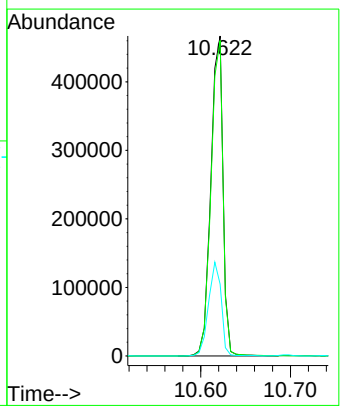


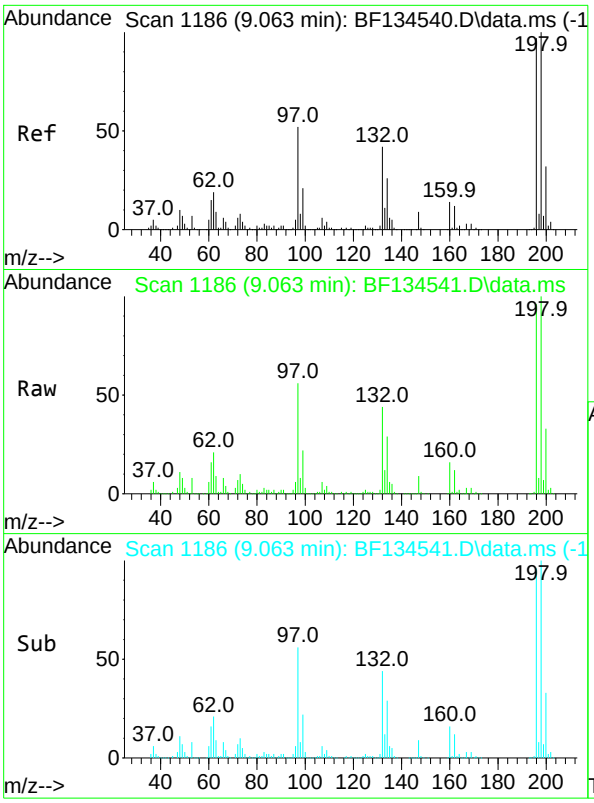


#42
2,4,6-Tribromophenol
Concen: 96.909 ng
RT: 10.622 min Scan# 1451
Delta R.T. 0.006 min
Lab File: BF134541.D
Acq: 01 Aug 2023 10:44

Tgt Ion:330 Resp: 438135

Ion	Ratio	Lower	Upper
330	100		
332	97.7	78.8	118.2
141	30.7	25.4	38.2

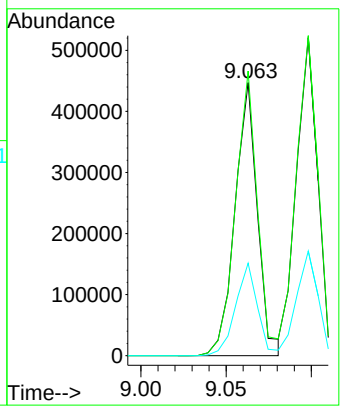




#43
2,4,6-Trichlorophenol
Concen: 48.569 ng
RT: 9.063 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF134541.D
Acq: 01 Aug 2023 10:44

Tgt Ion:196 Resp: 40994

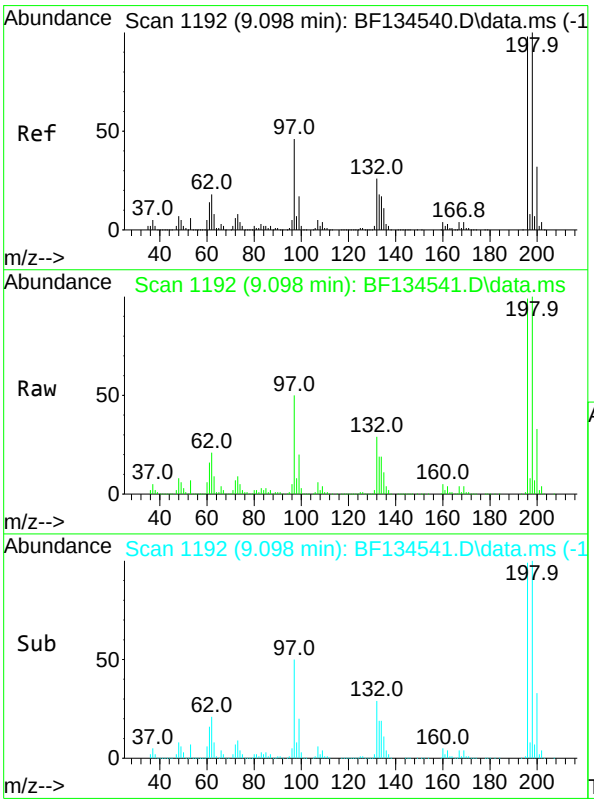
Ion	Ratio	Lower	Upper
196	100		
198	104.3	77.4	116.2
200	33.9	25.4	38.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

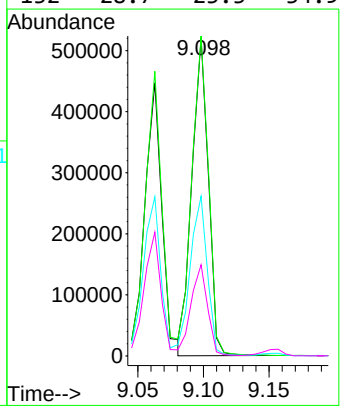
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

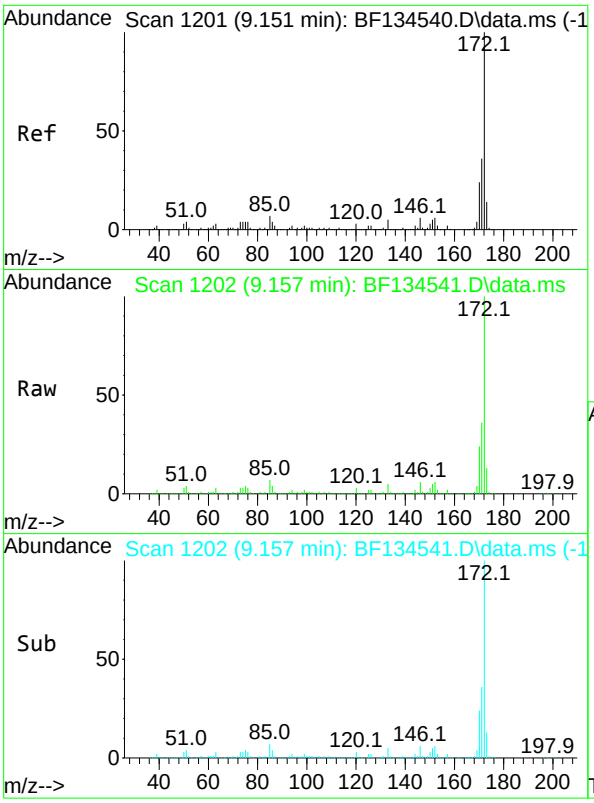


#44
2,4,5-Trichlorophenol
Concen: 47.171 ng
RT: 9.098 min Scan# 1192
Delta R.T. 0.000 min
Lab File: BF134541.D
Acq: 01 Aug 2023 10:44

Tgt Ion:196 Resp: 455045

Ion	Ratio	Lower	Upper
196	100		
198	100.6	73.0	109.4
97	50.2	40.8	61.2
132	28.7	23.3	34.9

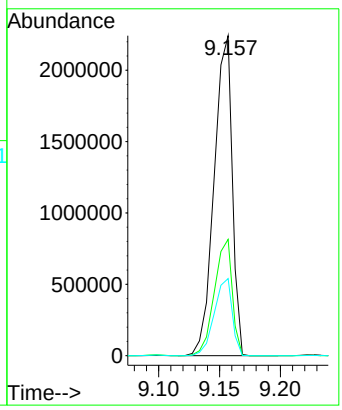




#45
2-Fluorobiphenyl
Concen: 87.127 ng
RT: 9.157 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF134541.D
Acq: 01 Aug 2023 10:44

Tgt Ion:172 Resp: 232400

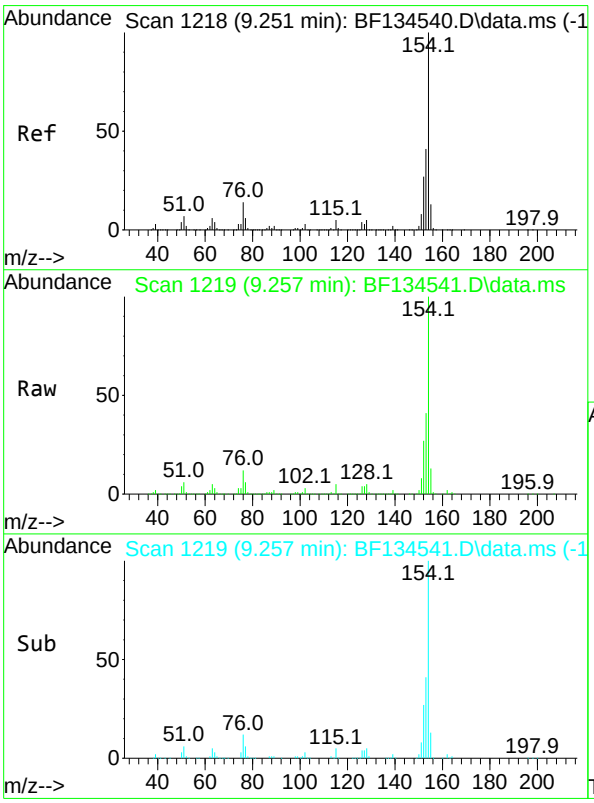
Ion	Ratio	Lower	Upper
172	100		
171	36.4	28.8	43.2
170	24.1	18.7	28.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

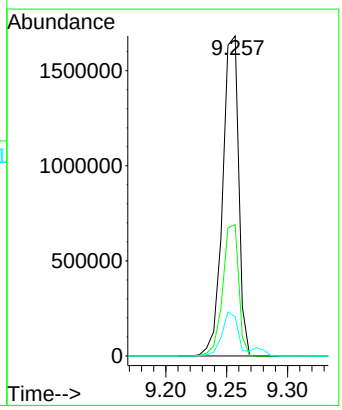
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

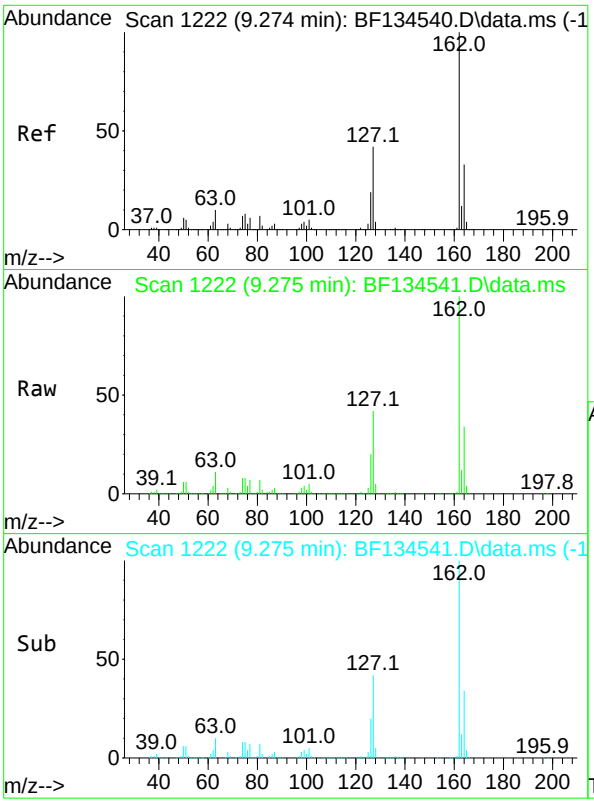


#46
1,1'-Biphenyl
Concen: 44.730 ng
RT: 9.257 min Scan# 1219
Delta R.T. 0.006 min
Lab File: BF134541.D
Acq: 01 Aug 2023 10:44

Tgt Ion:154 Resp: 1542644

Ion	Ratio	Lower	Upper
154	100		
153	41.1	20.8	60.8
76	12.2	0.0	30.2

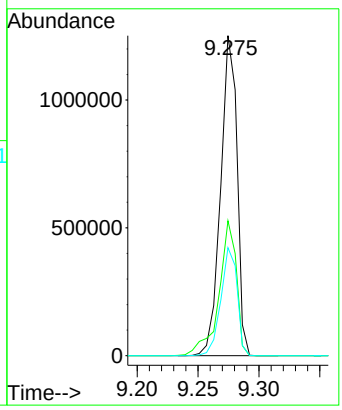




#47
2-Chloronaphthalene
Concen: 45.499 ng
RT: 9.275 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134541.D
Acq: 01 Aug 2023 10:44

Tgt Ion:162 Resp: 117577

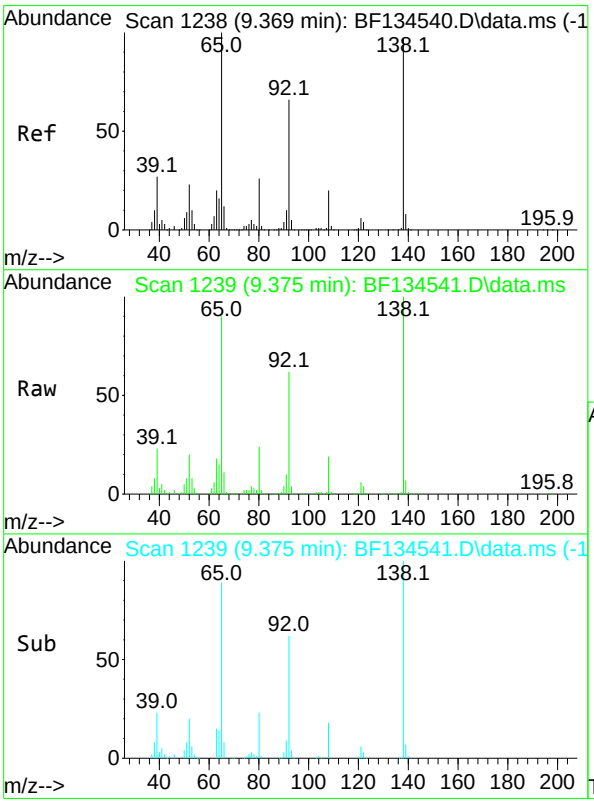
Ion	Ratio	Lower	Upper
162	100		
127	42.1	34.0	51.0
164	33.8	25.7	38.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

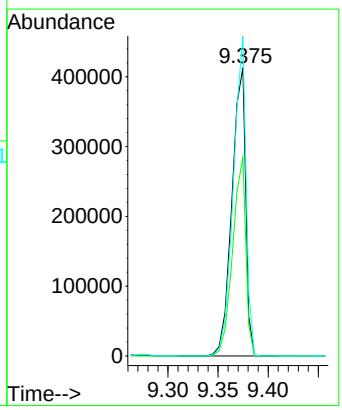
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

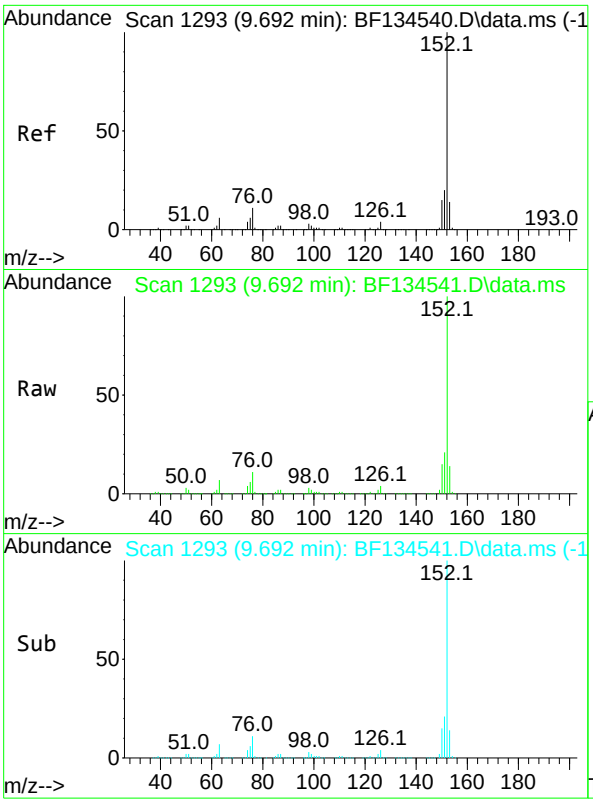


#48
2-Nitroaniline
Concen: 48.637 ng
RT: 9.375 min Scan# 1239
Delta R.T. 0.006 min
Lab File: BF134541.D
Acq: 01 Aug 2023 10:44

Tgt Ion: 65 Resp: 392208

Ion	Ratio	Lower	Upper
65	100		
92	68.8	50.7	76.1
138	111.0	78.2	117.4

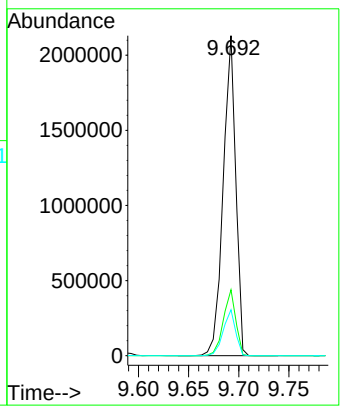




#49
Acenaphthylene
Concen: 45.605 ng
RT: 9.692 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134541.D
Acq: 01 Aug 2023 10:44

Tgt Ion:152 Resp: 185252

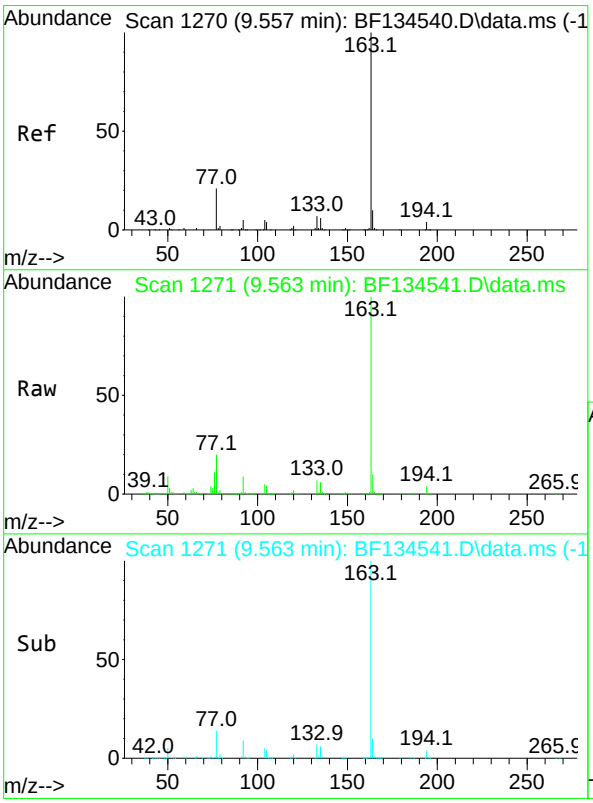
Ion	Ratio	Lower	Upper
152	100		
151	20.6	16.4	24.6
153	14.3	10.9	16.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

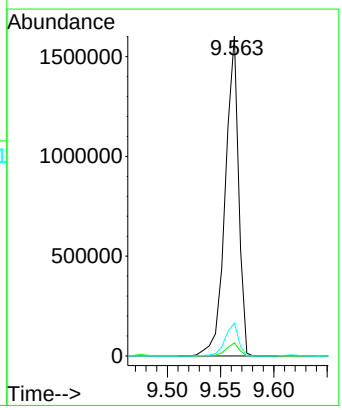
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

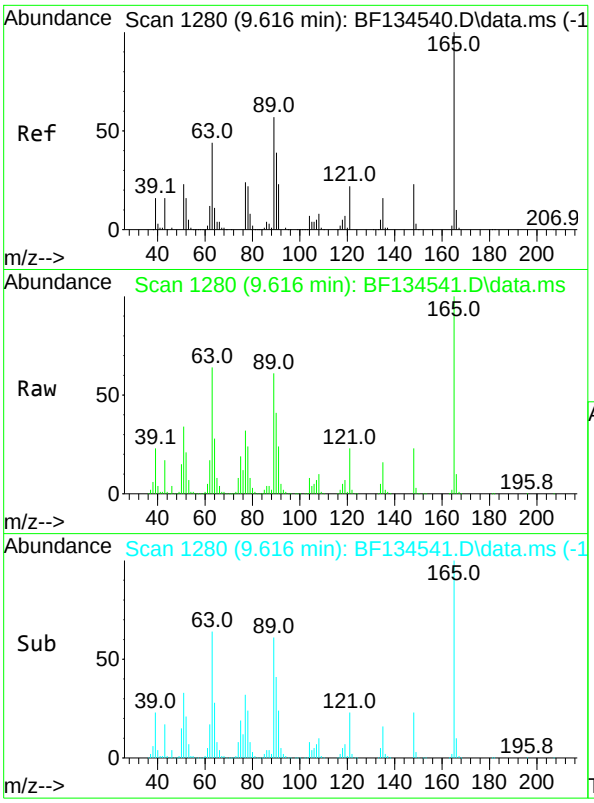


#50
Dimethylphthalate
Concen: 45.914 ng
RT: 9.563 min Scan# 1271
Delta R.T. 0.006 min
Lab File: BF134541.D
Acq: 01 Aug 2023 10:44

Tgt Ion:163 Resp: 1387887

Ion	Ratio	Lower	Upper
163	100		
194	4.1	3.3	4.9
164	10.3	7.5	11.3

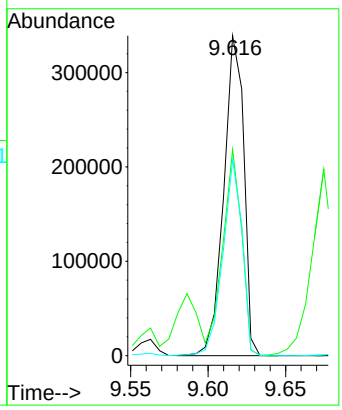




#51
2,6-Dinitrotoluene
Concen: 49.181 ng
RT: 9.616 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF134541.D
Acq: 01 Aug 2023 10:44

Tgt Ion:165 Resp: 30500

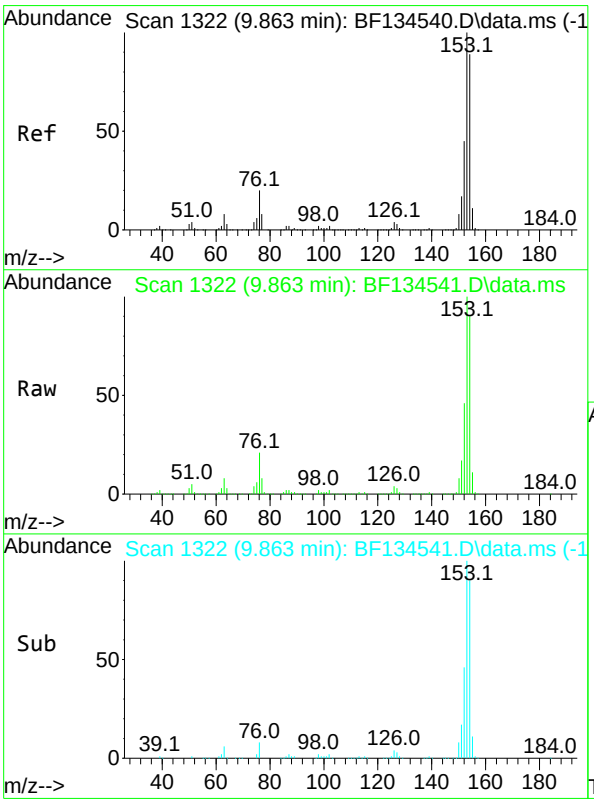
Ion	Ratio	Lower	Upper
165	100		
63	64.4	57.8	86.6
89	61.3	51.8	77.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

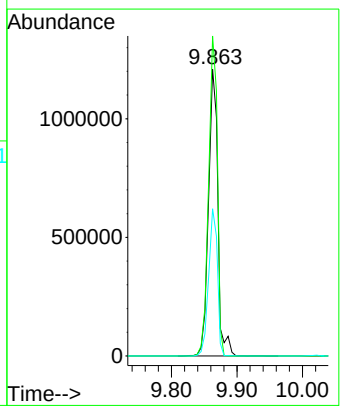
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

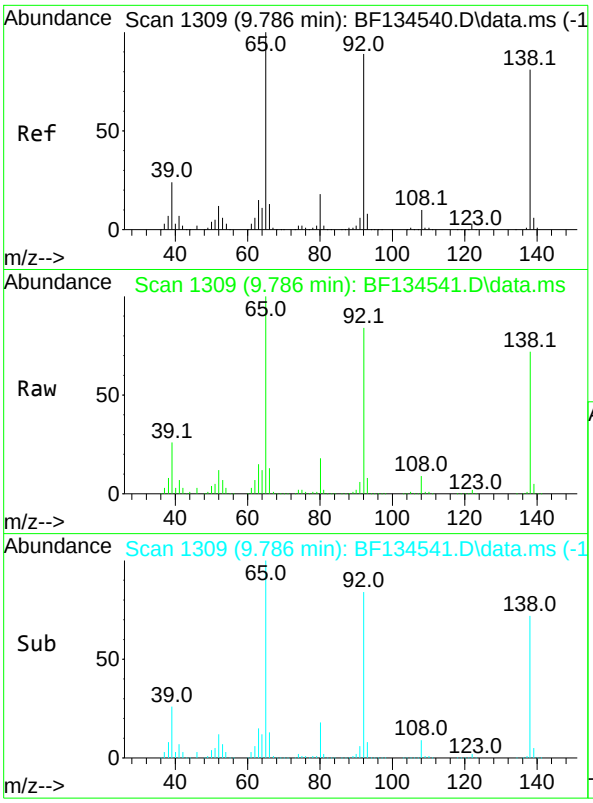


#52
Acenaphthene
Concen: 45.575 ng
RT: 9.863 min Scan# 1322
Delta R.T. -0.000 min
Lab File: BF134541.D
Acq: 01 Aug 2023 10:44

Tgt Ion:154 Resp: 1199719

Ion	Ratio	Lower	Upper
154	100		
153	111.6	90.0	135.0
152	51.3	42.4	63.6

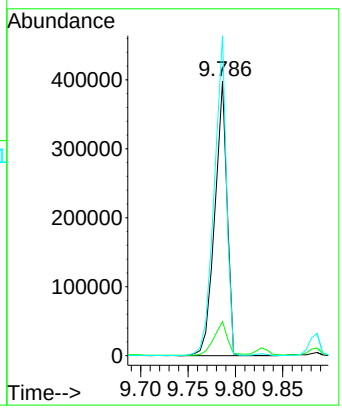




#53
3-Nitroaniline
Concen: 53.149 ng
RT: 9.786 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134541.D
Acq: 01 Aug 2023 10:44

Tgt Ion:138 Resp: 35809

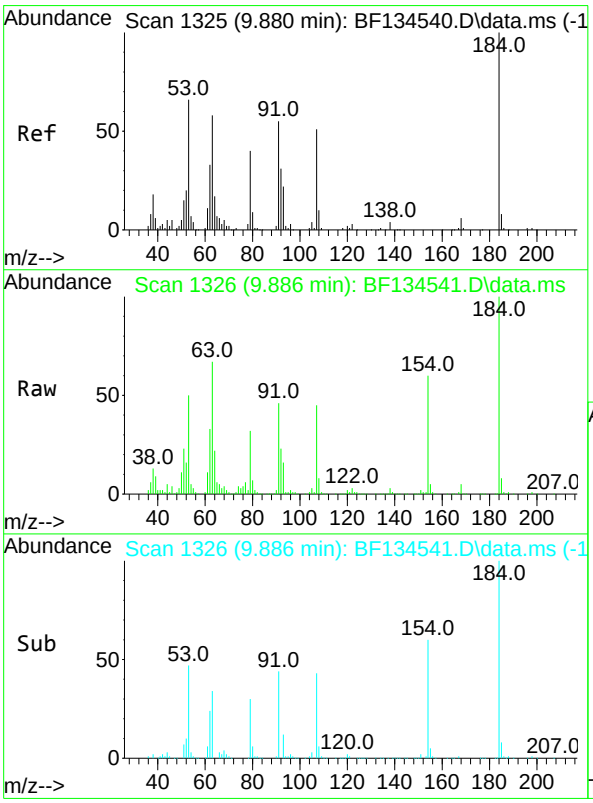
Ion	Ratio	Lower	Upper
138	100		
108	12.4	9.3	13.9
92	116.5	86.6	129.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

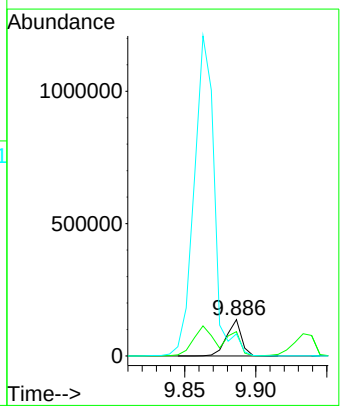
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

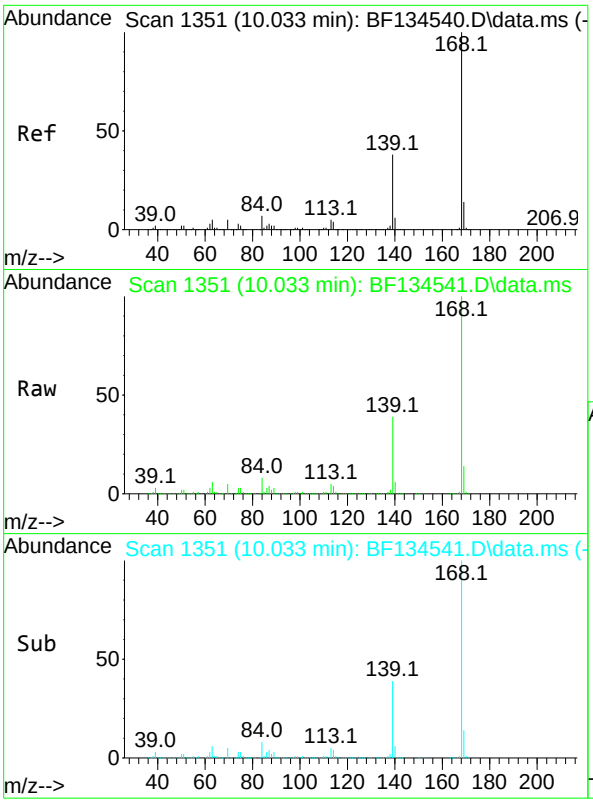


#54
2,4-Dinitrophenol
Concen: 49.552 ng
RT: 9.886 min Scan# 1326
Delta R.T. 0.006 min
Lab File: BF134541.D
Acq: 01 Aug 2023 10:44

Tgt Ion:184 Resp: 99755

Ion	Ratio	Lower	Upper
184	100		
63	66.9	57.1	85.7
154	60.5	59.1	88.7

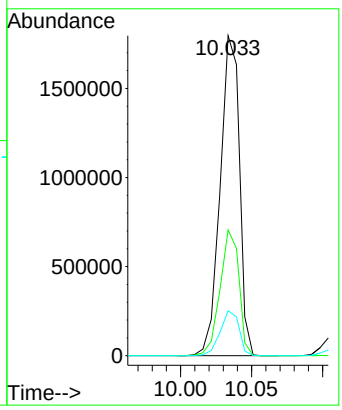




#55
Dibenzofuran
Concen: 45.182 ng
RT: 10.033 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134541.D
Acq: 01 Aug 2023 10:44

Tgt Ion:168 Resp: 169315

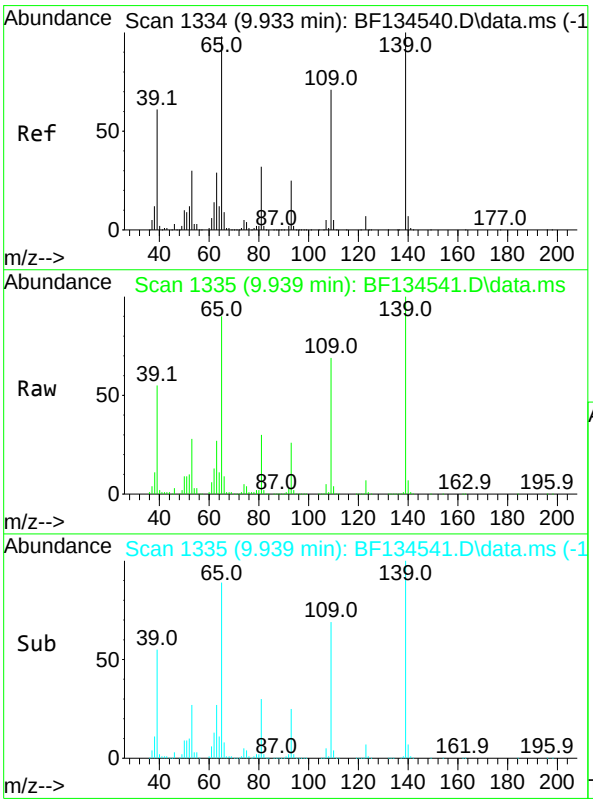
Ion	Ratio	Lower	Upper
168	100		
139	39.3	33.4	50.2
169	14.1	10.6	15.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

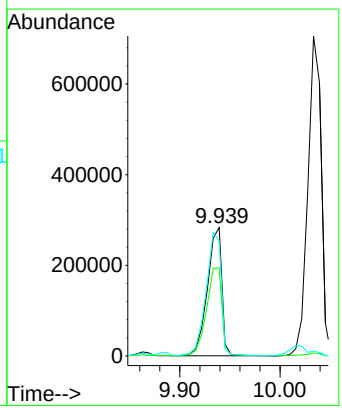
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

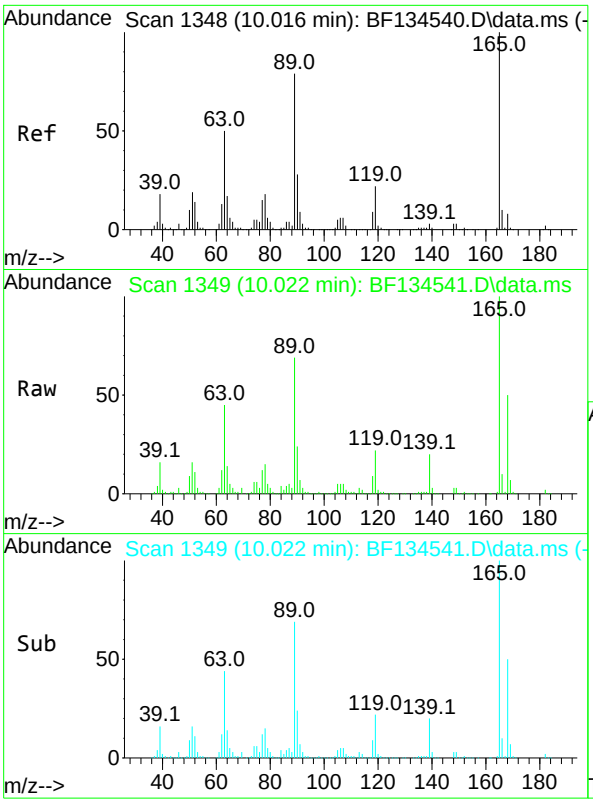


#56
4-Nitrophenol
Concen: 51.712 ng
RT: 9.939 min Scan# 1335
Delta R.T. 0.006 min
Lab File: BF134541.D
Acq: 01 Aug 2023 10:44

Tgt Ion:139 Resp: 284956

Ion	Ratio	Lower	Upper
139	100		
109	68.6	76.9	116.9#
65	89.7	98.5	138.5#

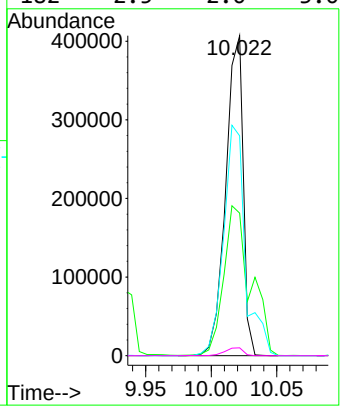




#57
2,4-Dinitrotoluene
Concen: 50.143 ng
RT: 10.022 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF134541.D
Acq: 01 Aug 2023 10:44

Tgt Ion:165 Resp: 37611

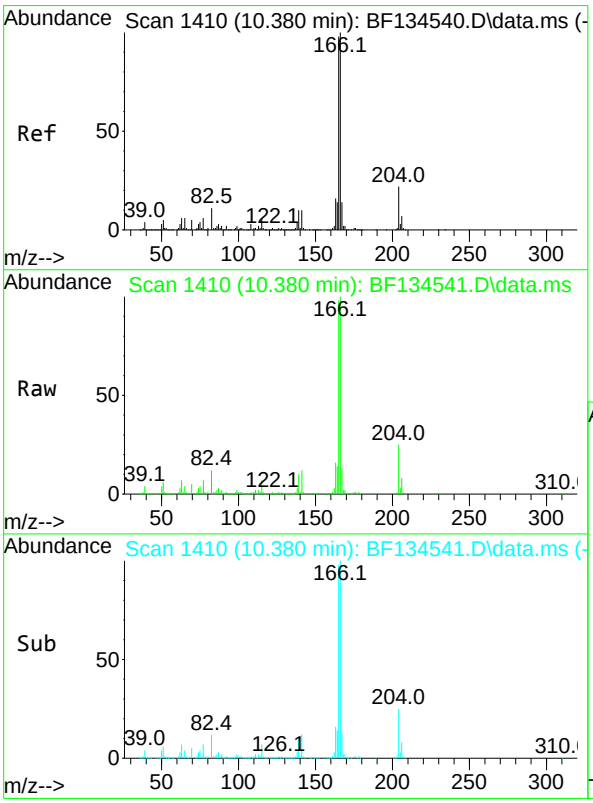
Ion	Ratio	Lower	Upper
165	100		
63	44.5	48.9	73.3#
89	68.7	61.7	92.5
182	2.5	2.0	3.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

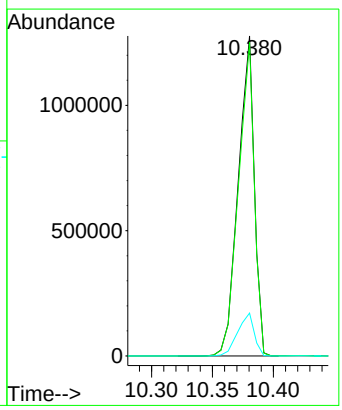
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

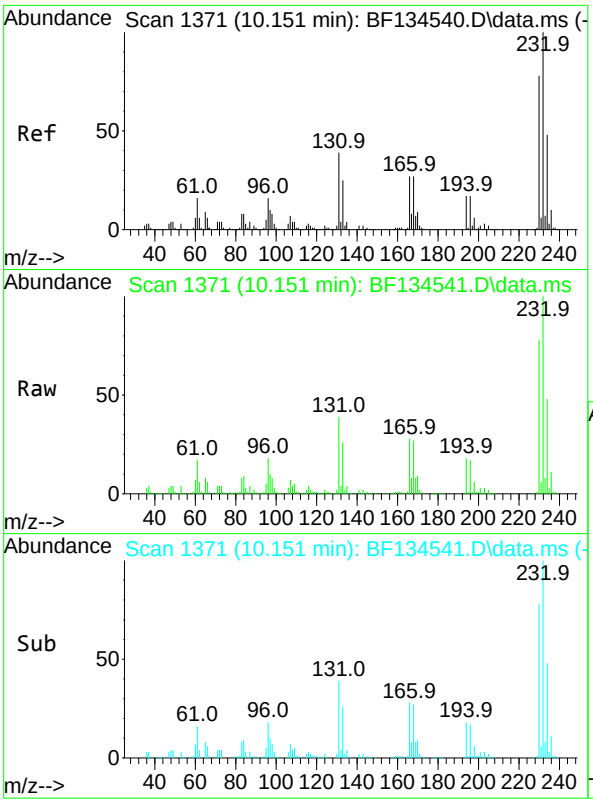


#58
Fluorene
Concen: 42.818 ng
RT: 10.380 min Scan# 1410
Delta R.T. 0.000 min
Lab File: BF134541.D
Acq: 01 Aug 2023 10:44

Tgt Ion:166 Resp: 1168745

Ion	Ratio	Lower	Upper
166	100		
165	98.0	74.5	111.7
167	13.4	10.6	16.0

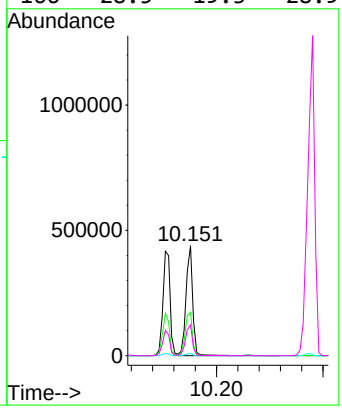




#59
2,3,4,6-Tetrachlorophenol
Concen: 49.477 ng
RT: 10.151 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134541.D
Acq: 01 Aug 2023 10:44

Tgt Ion:232 Resp: 37823

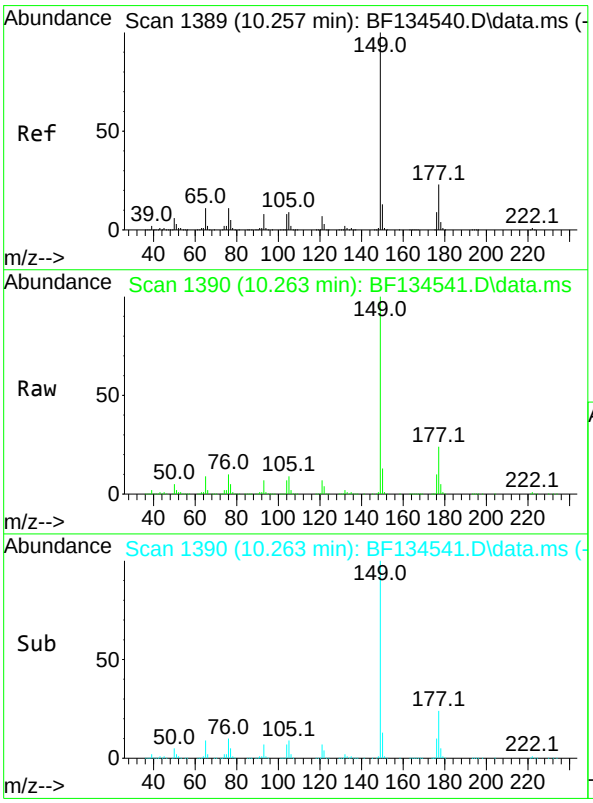
Ion	Ratio	Lower	Upper
232	100		
131	42.7	33.4	50.0
130	2.2	1.8	2.6
166	28.5	19.3	28.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

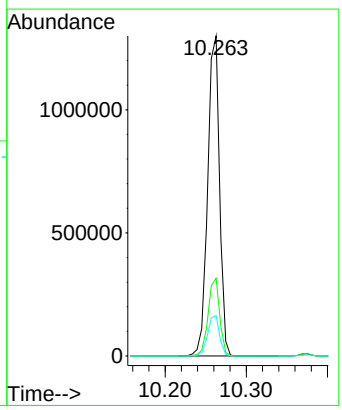
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

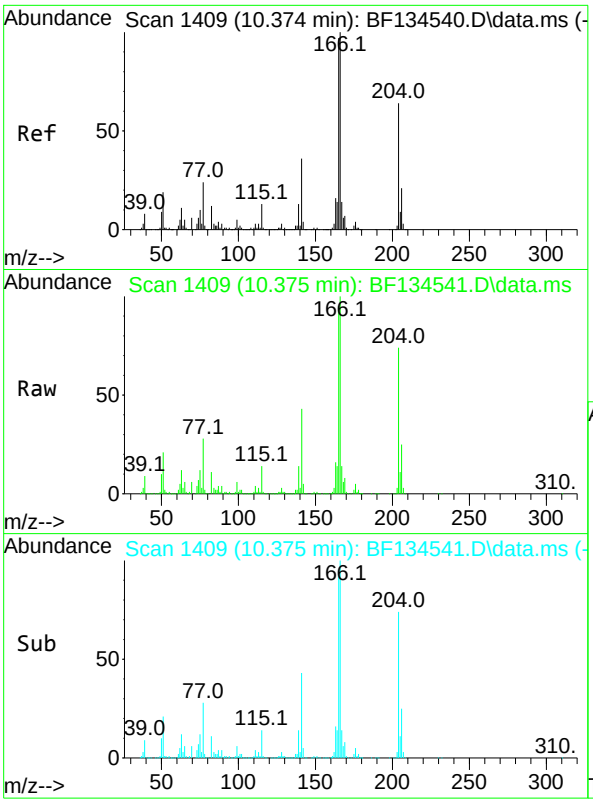


#60
Diethylphthalate
Concen: 45.885 ng
RT: 10.263 min Scan# 1390
Delta R.T. 0.006 min
Lab File: BF134541.D
Acq: 01 Aug 2023 10:44

Tgt Ion:149 Resp: 1314701

Ion	Ratio	Lower	Upper
149	100		
177	24.3	17.0	25.4
150	12.6	9.9	14.9

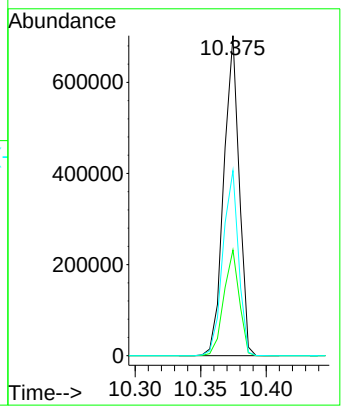




#61
4-Chlorophenyl-phenylether
Concen: 42.735 ng
RT: 10.375 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF134541.D
Acq: 01 Aug 2023 10:44

Tgt Ion:204 Resp: 57335

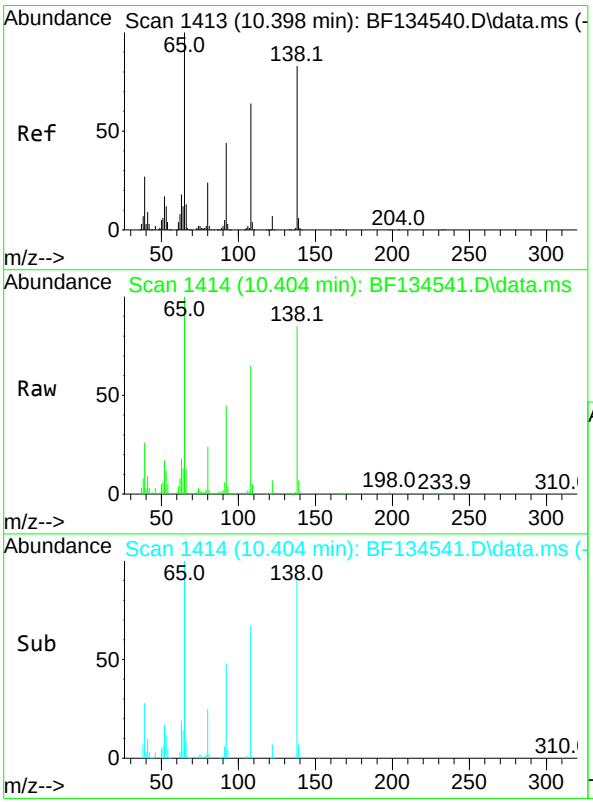
Ion	Ratio	Lower	Upper
204	100		
206	33.0	26.0	39.0
141	57.8	52.2	78.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

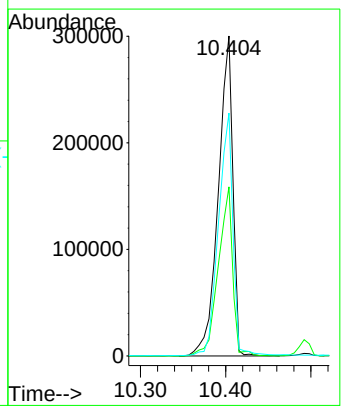
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

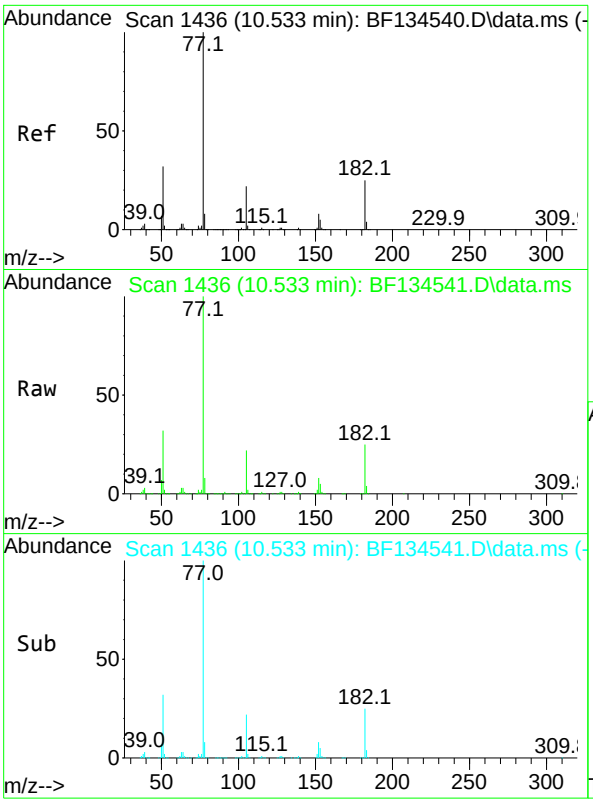


#62
4-Nitroaniline
Concen: 54.078 ng
RT: 10.404 min Scan# 1414
Delta R.T. 0.006 min
Lab File: BF134541.D
Acq: 01 Aug 2023 10:44

Tgt Ion:138 Resp: 357122

Ion	Ratio	Lower	Upper
138	100		
92	52.8	27.0	67.0
108	75.9	70.4	110.4

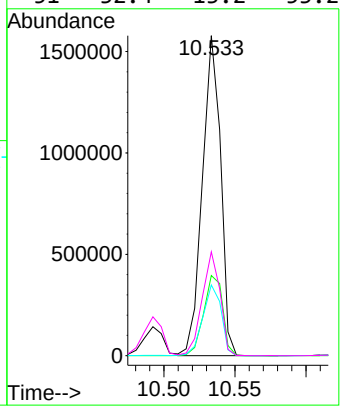




#63
Azobenzene
Concen: 45.871 ng
RT: 10.533 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF134541.D
Acq: 01 Aug 2023 10:44

Tgt Ion: 77 Resp: 141208

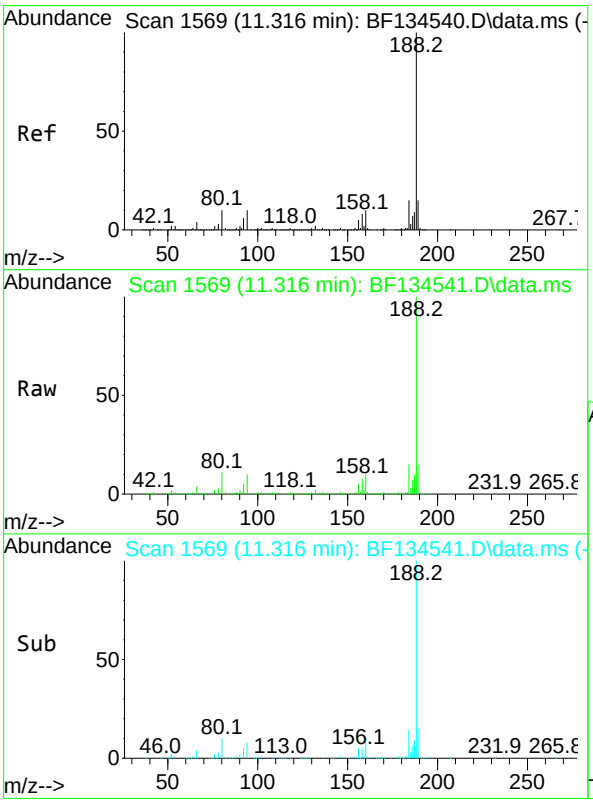
Ion	Ratio	Lower	Upper
77	100		
182	25.1	7.5	47.5
105	22.1	1.9	41.9
51	32.4	13.2	53.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

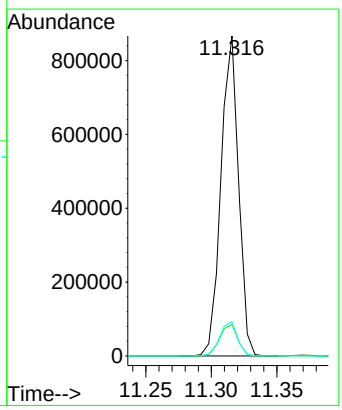
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

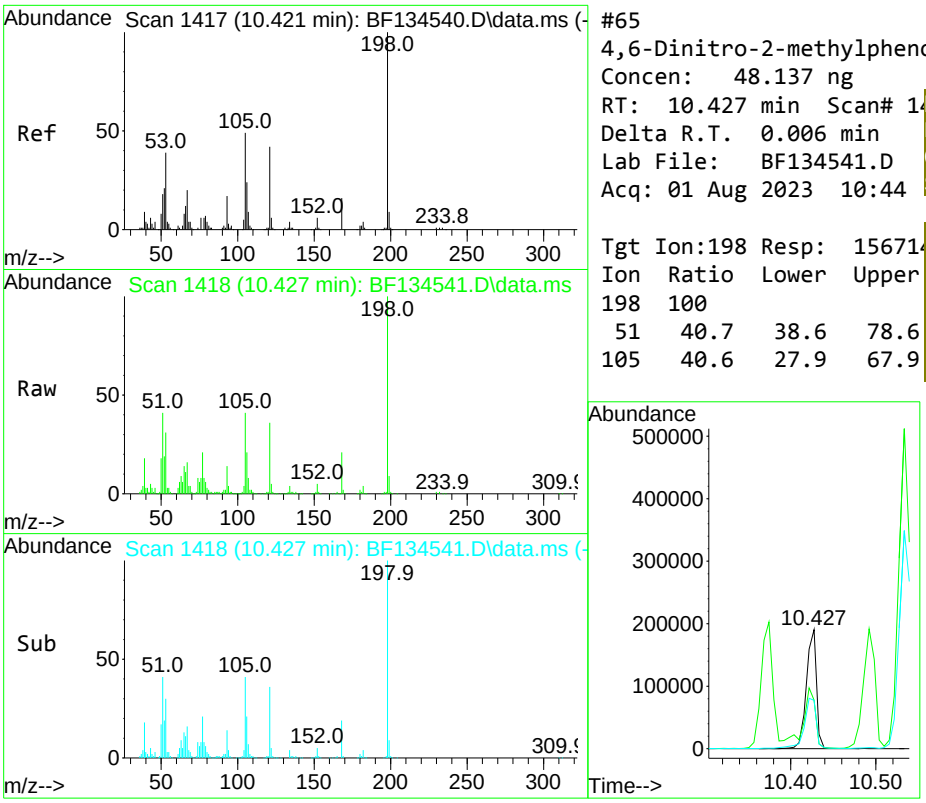


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.316 min Scan# 1569
Delta R.T. 0.000 min
Lab File: BF134541.D
Acq: 01 Aug 2023 10:44

Tgt Ion:188 Resp: 804974

Ion	Ratio	Lower	Upper
188	100		
94	9.8	5.1	7.7#
80	10.7	6.6	9.8#





#65
4,6-Dinitro-2-methylphenol
Concen: 48.137 ng
RT: 10.427 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF134541.D
Acq: 01 Aug 2023 10:44

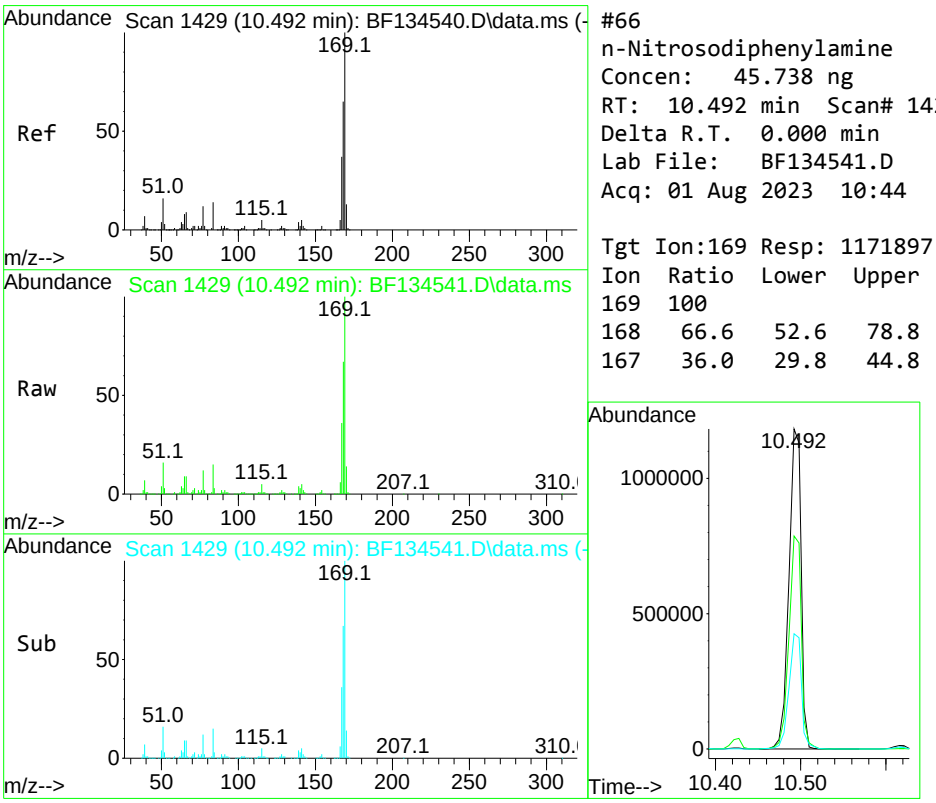
Tgt Ion:198 Resp: 15671

Ion	Ratio	Lower	Upper
198	100		
51	40.7	38.6	78.6
105	40.6	27.9	67.9

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

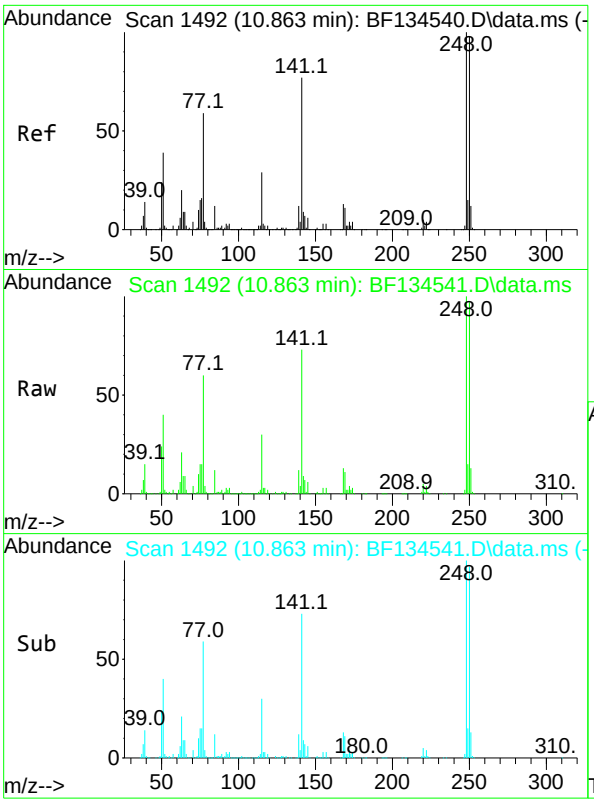
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023



#66
n-Nitrosodiphenylamine
Concen: 45.738 ng
RT: 10.492 min Scan# 1429
Delta R.T. 0.000 min
Lab File: BF134541.D
Acq: 01 Aug 2023 10:44

Tgt Ion:169 Resp: 1171897

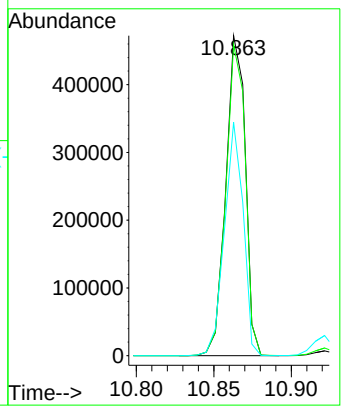
Ion	Ratio	Lower	Upper
169	100		
168	66.6	52.6	78.8
167	36.0	29.8	44.8



#67
4-Bromophenyl-phenylether
Concen: 46.870 ng
RT: 10.863 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF134541.D
Acq: 01 Aug 2023 10:44

Tgt Ion:248 Resp: 41301

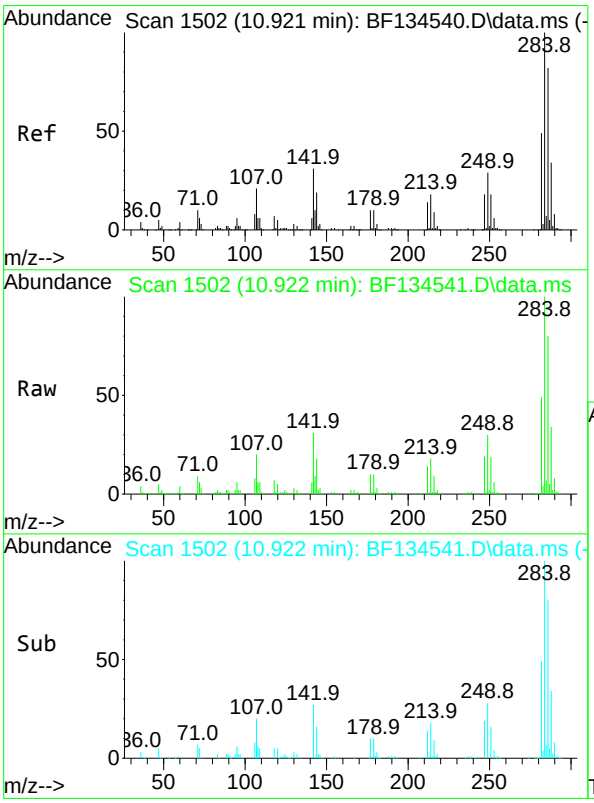
Ion	Ratio	Lower	Upper
248	100		
250	97.3	79.6	119.4
141	72.9	59.6	89.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

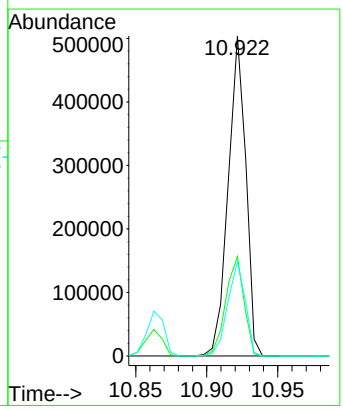
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

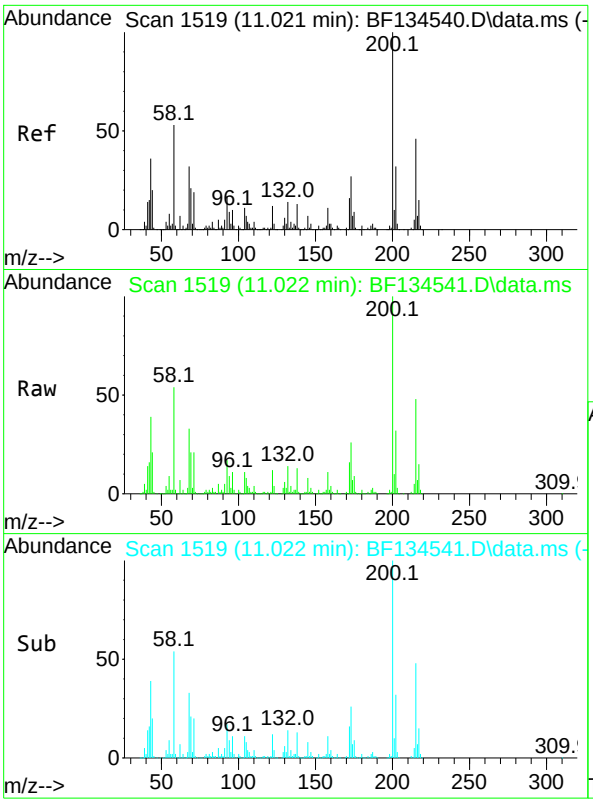


#68
Hexachlorobenzene
Concen: 46.578 ng
RT: 10.922 min Scan# 1502
Delta R.T. 0.000 min
Lab File: BF134541.D
Acq: 01 Aug 2023 10:44

Tgt Ion:284 Resp: 433422

Ion	Ratio	Lower	Upper
284	100		
142	31.1	26.5	39.7
249	29.5	23.8	35.8

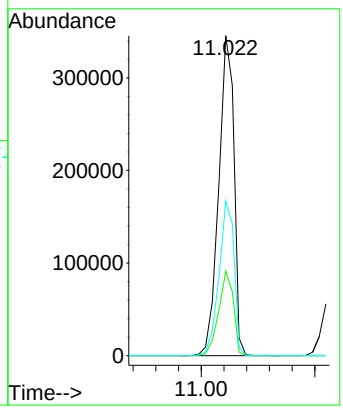




#69
Atrazine
Concen: 46.764 ng
RT: 11.022 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134541.D
Acq: 01 Aug 2023 10:44

Tgt Ion:200 Resp: 32295

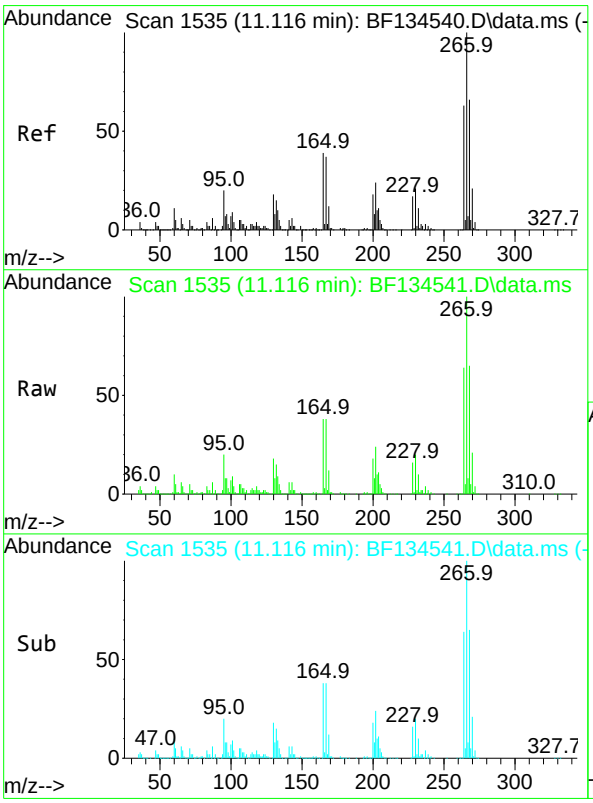
Ion	Ratio	Lower	Upper
200	100		
173	26.4	6.1	46.1
215	48.3	29.7	69.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

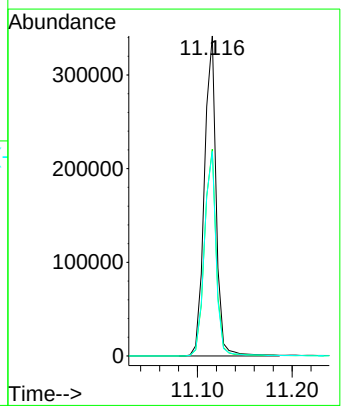
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

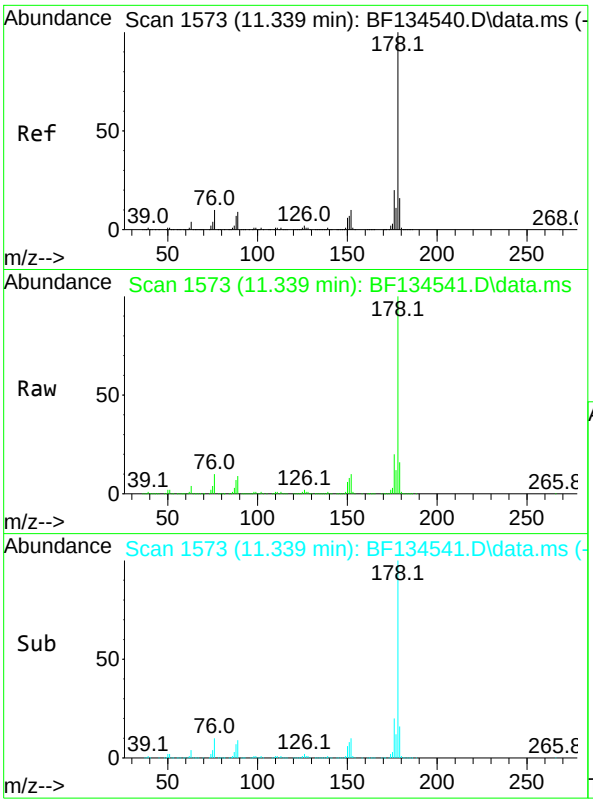


#70
Pentachlorophenol
Concen: 51.210 ng
RT: 11.116 min Scan# 1535
Delta R.T. 0.000 min
Lab File: BF134541.D
Acq: 01 Aug 2023 10:44

Tgt Ion:266 Resp: 295046

Ion	Ratio	Lower	Upper
266	100		
268	64.7	52.9	79.3
264	63.9	47.8	71.6

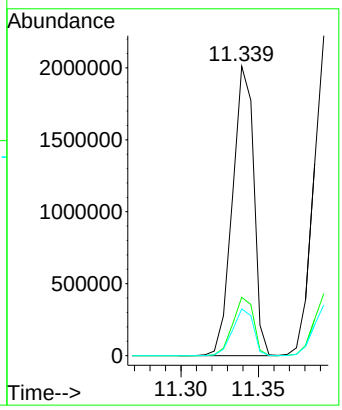




#71
Phenanthrene
Concen: 44.834 ng
RT: 11.339 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134541.D
Acq: 01 Aug 2023 10:44

Tgt Ion:178 Resp: 191697

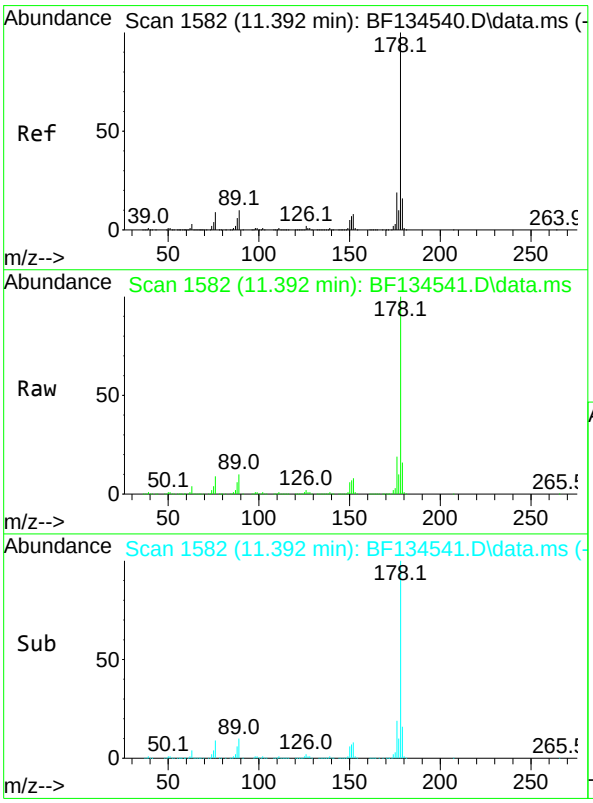
Ion	Ratio	Lower	Upper
178	100		
176	20.2	15.8	23.6
179	16.1	12.7	19.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

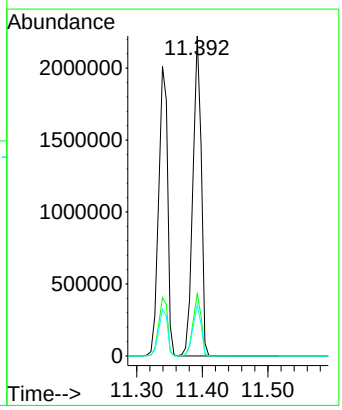
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

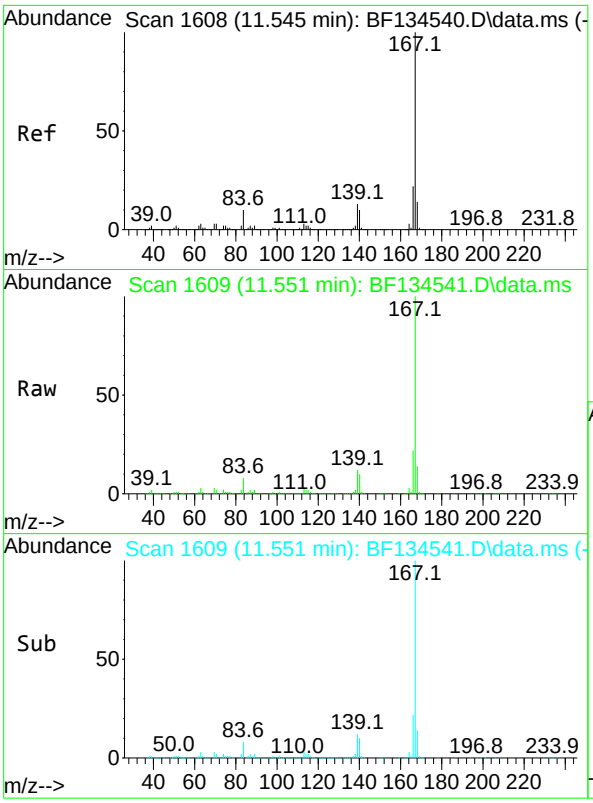


#72
Anthracene
Concen: 45.052 ng
RT: 11.392 min Scan# 1582
Delta R.T. 0.000 min
Lab File: BF134541.D
Acq: 01 Aug 2023 10:44

Tgt Ion:178 Resp: 1967609

Ion	Ratio	Lower	Upper
178	100		
176	19.4	14.6	21.8
179	15.9	12.3	18.5

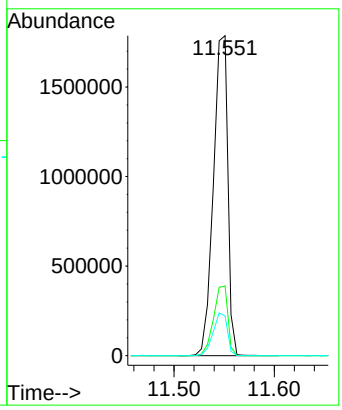




#73
Carbazole
Concen: 45.768 ng
RT: 11.551 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF134541.D
Acq: 01 Aug 2023 10:44

Tgt Ion:167 Resp: 178473

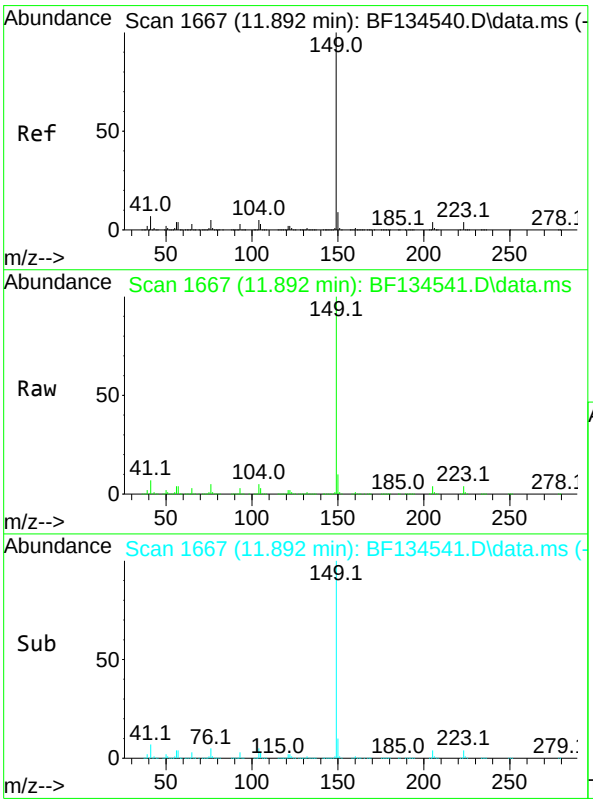
Ion	Ratio	Lower	Upper
167	100		
166	21.8	17.5	26.3
139	12.4	11.0	16.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

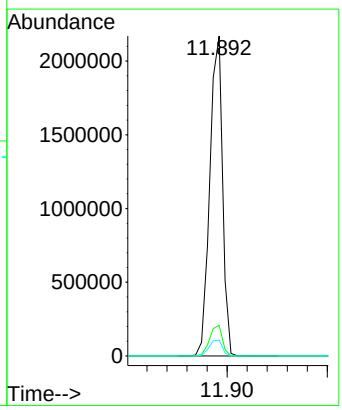
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

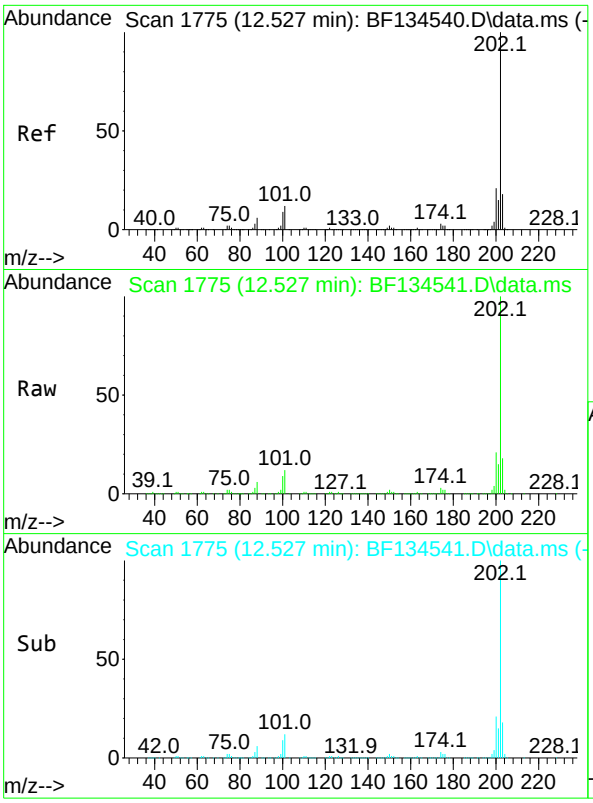


#74
Di-n-butylphthalate
Concen: 46.377 ng
RT: 11.892 min Scan# 1667
Delta R.T. 0.000 min
Lab File: BF134541.D
Acq: 01 Aug 2023 10:44

Tgt Ion:149 Resp: 1921332

Ion	Ratio	Lower	Upper
149	100		
150	9.5	7.2	10.8
104	5.0	3.8	5.8

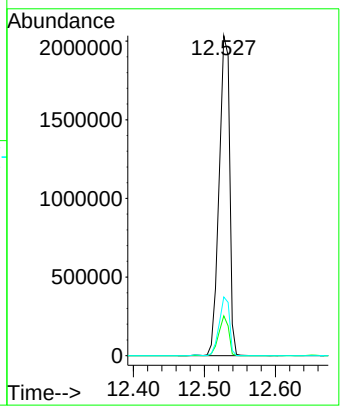




#75
Fluoranthene
Concen: 45.950 ng
RT: 12.527 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134541.D
Acq: 01 Aug 2023 10:44

Tgt Ion:202 Resp: 207530

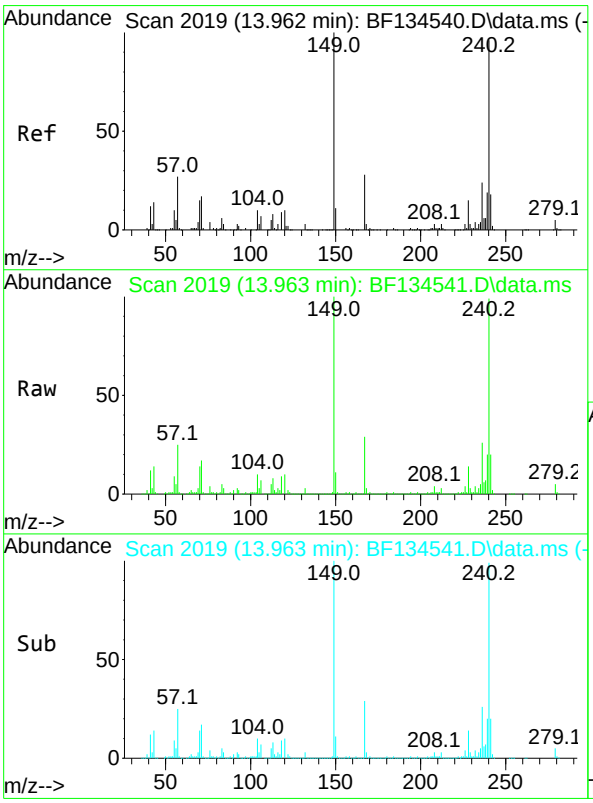
Ion	Ratio	Lower	Upper
202	100		
101	12.5	0.0	28.5
203	18.3	0.0	37.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

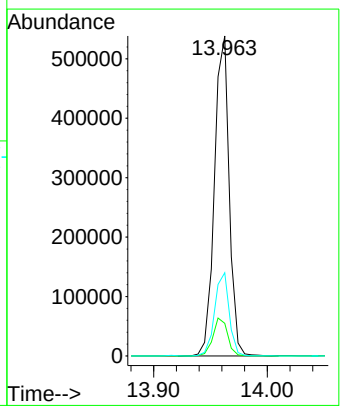
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

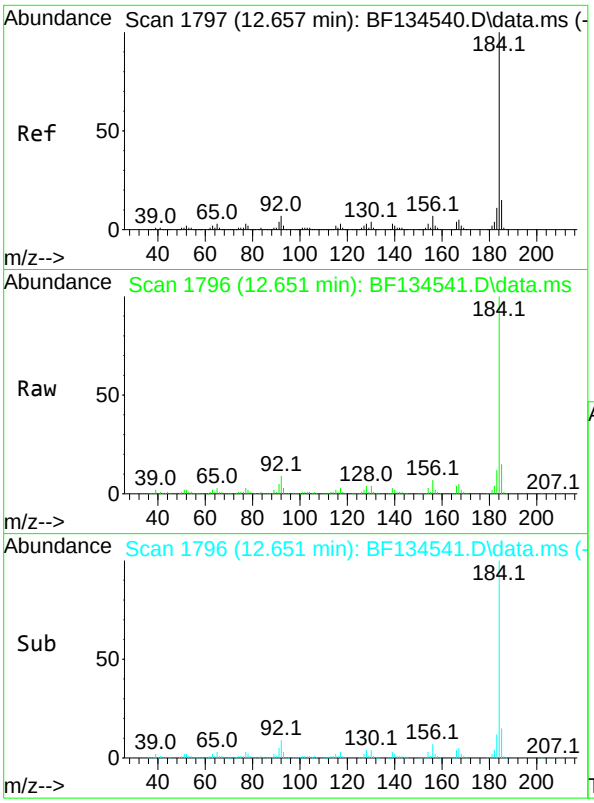


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.963 min Scan# 2019
Delta R.T. 0.000 min
Lab File: BF134541.D
Acq: 01 Aug 2023 10:44

Tgt Ion:240 Resp: 486215

Ion	Ratio	Lower	Upper
240	100		
120	10.2	6.6	10.0#
236	26.0	20.2	30.2

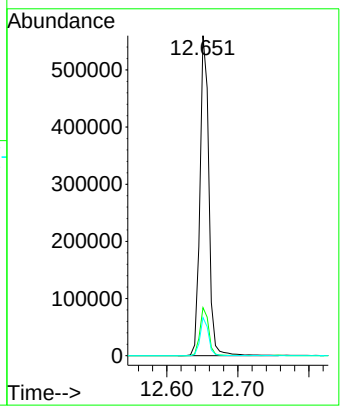




#77
Benzidine
Concen: 46.284 ng
RT: 12.651 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF134541.D
Acq: 01 Aug 2023 10:44

Tgt Ion:184 Resp: 48851

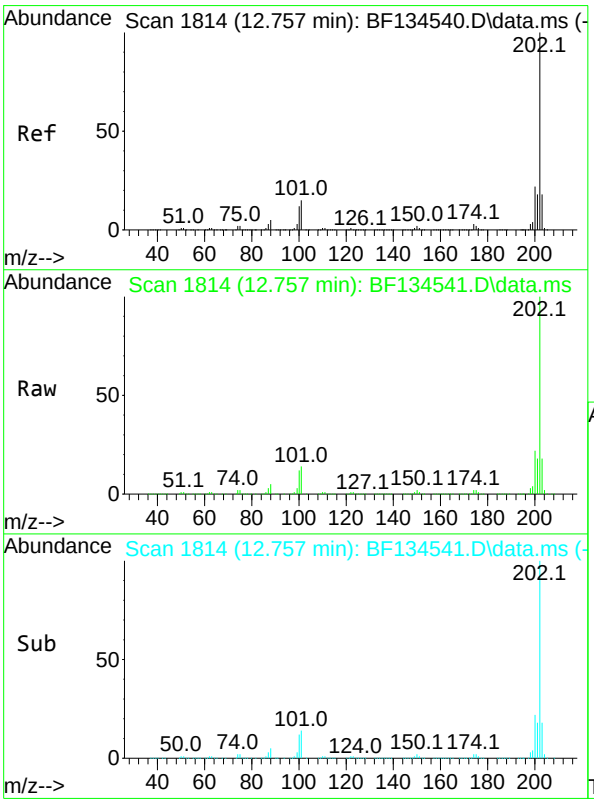
Ion	Ratio	Lower	Upper
184	100		
185	15.0	11.2	16.8
183	11.9	8.6	13.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

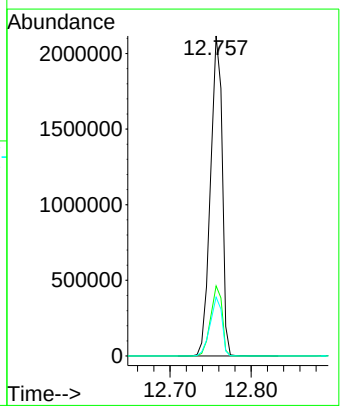
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

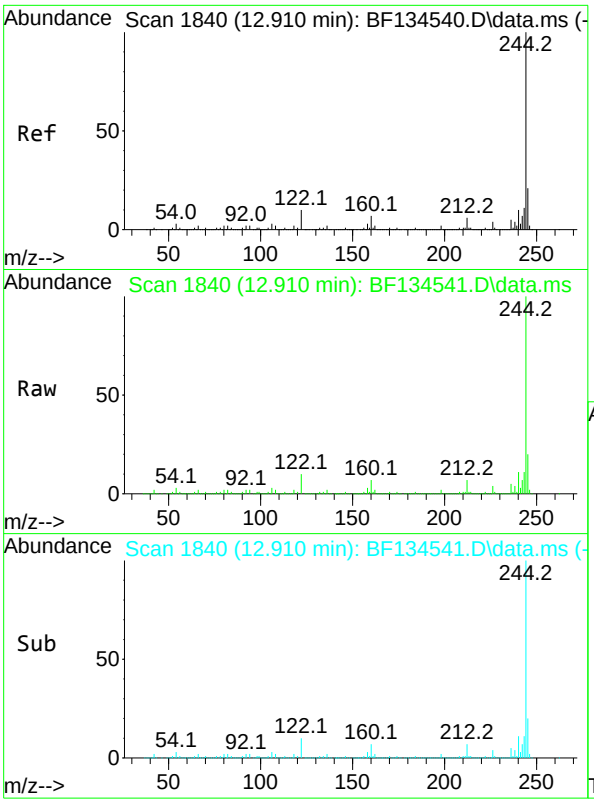


#78
Pyrene
Concen: 50.056 ng
RT: 12.757 min Scan# 1814
Delta R.T. 0.000 min
Lab File: BF134541.D
Acq: 01 Aug 2023 10:44

Tgt Ion:202 Resp: 2106005

Ion	Ratio	Lower	Upper
202	100		
200	21.9	15.8	23.8
203	18.4	13.5	20.3

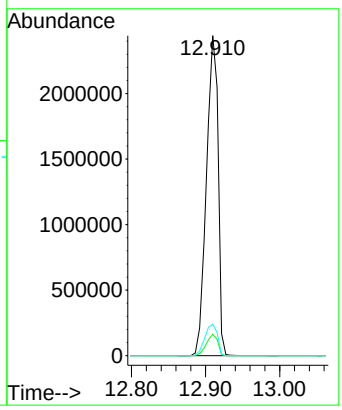




#79
Terphenyl-d14
Concen: 96.953 ng
RT: 12.910 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134541.D
Acq: 01 Aug 2023 10:44

Tgt Ion:244 Resp: 267405

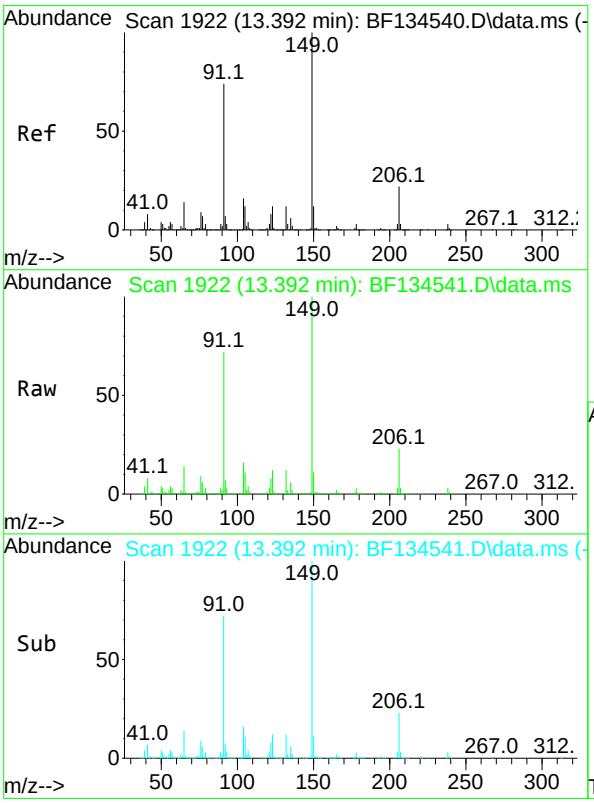
Ion	Ratio	Lower	Upper
244	100		
212	6.7	5.6	8.4
122	9.8	8.0	12.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

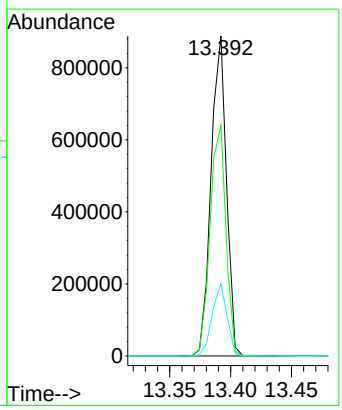
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

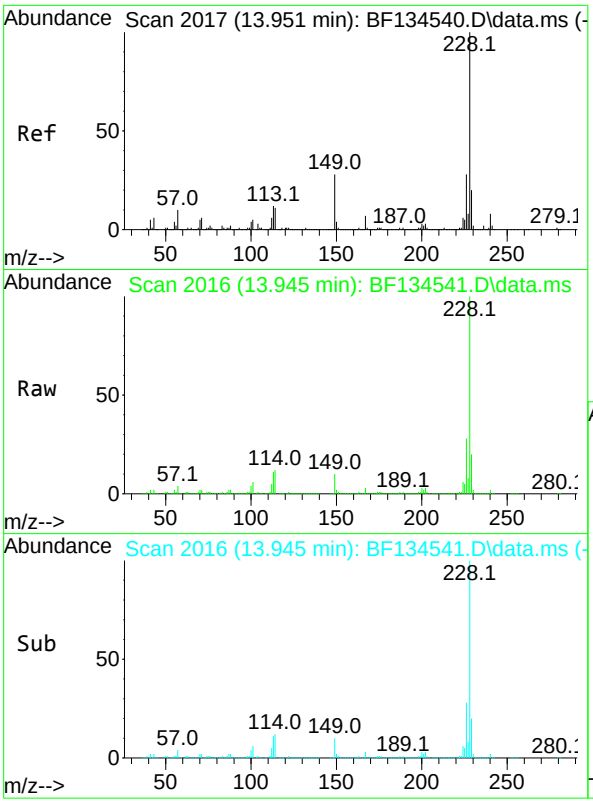


#80
Butylbenzylphthalate
Concen: 54.652 ng
RT: 13.392 min Scan# 1922
Delta R.T. 0.000 min
Lab File: BF134541.D
Acq: 01 Aug 2023 10:44

Tgt Ion:149 Resp: 777516

Ion	Ratio	Lower	Upper
149	100		
91	72.2	55.8	83.6
206	22.5	14.6	21.8#

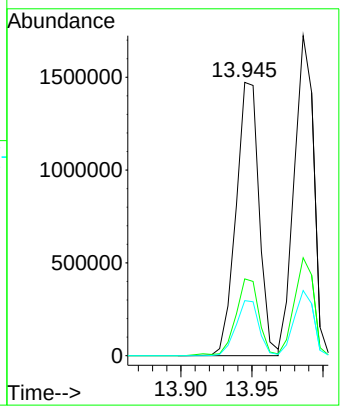




#81
Benzo(a)anthracene
Concen: 47.930 ng
RT: 13.945 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF134541.D
Acq: 01 Aug 2023 10:44

Tgt Ion:228 Resp: 166638

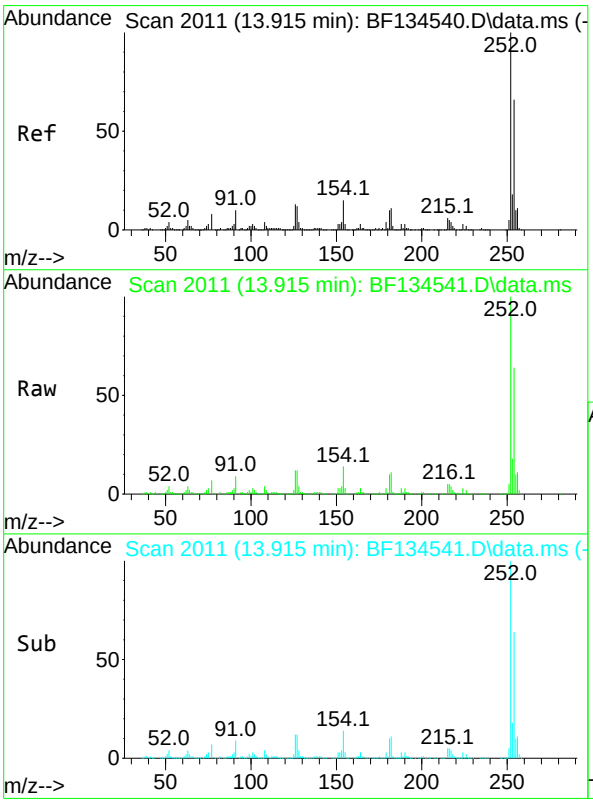
Ion	Ratio	Lower	Upper
228	100		
226	28.1	22.3	33.5
229	20.1	15.8	23.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

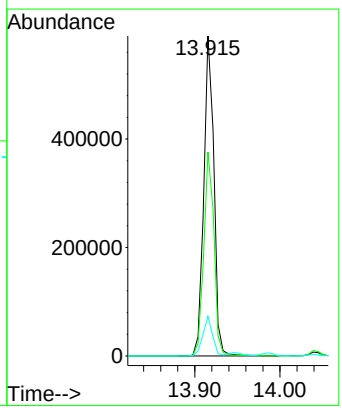
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

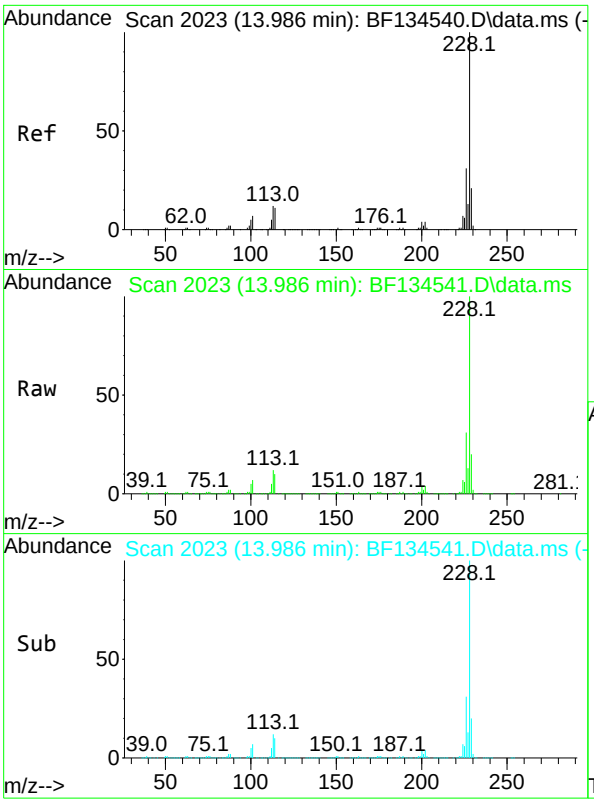


#82
3,3'-Dichlorobenzidine
Concen: 48.211 ng
RT: 13.915 min Scan# 2011
Delta R.T. 0.000 min
Lab File: BF134541.D
Acq: 01 Aug 2023 10:44

Tgt Ion:252 Resp: 485849

Ion	Ratio	Lower	Upper
252	100		
254	63.7	52.7	79.1
126	12.4	7.2	10.8#

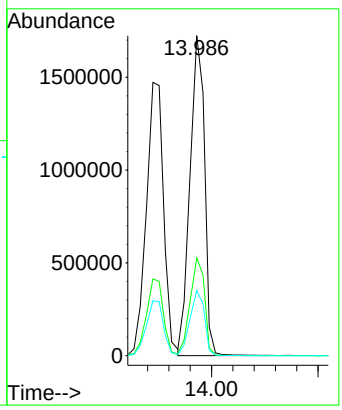




#83
Chrysene
Concen: 48.475 ng
RT: 13.986 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF134541.D
Acq: 01 Aug 2023 10:44

Tgt Ion:228 Resp: 164195

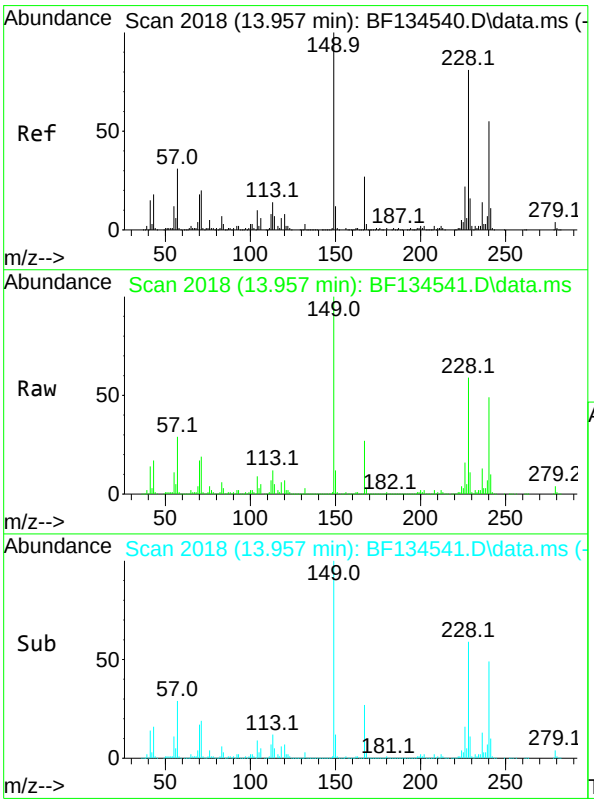
Ion	Ratio	Lower	Upper
228	100		
226	30.6	24.5	36.7
229	20.3	15.8	23.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

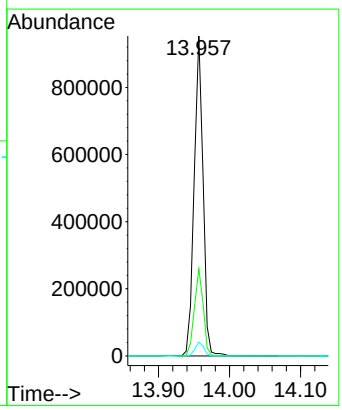
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

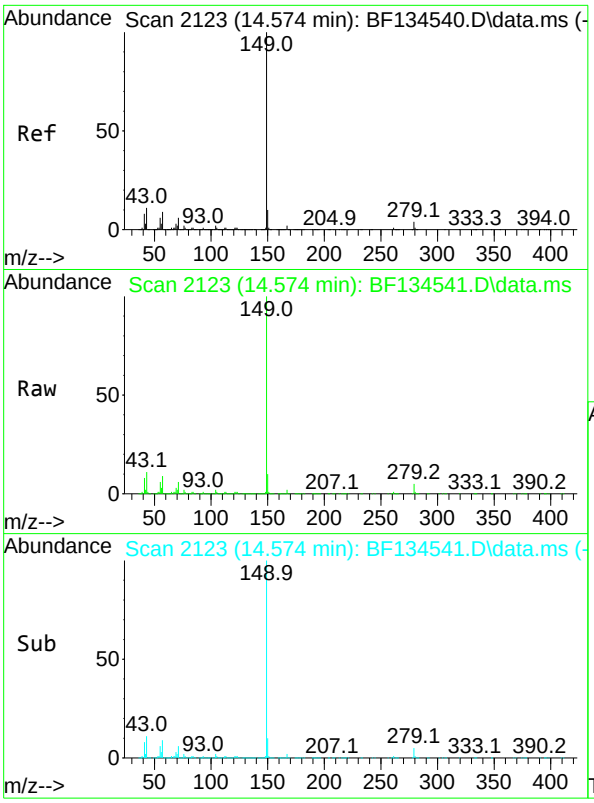


#84
Bis(2-ethylhexyl)phthalate
Concen: 49.884 ng
RT: 13.957 min Scan# 2018
Delta R.T. 0.000 min
Lab File: BF134541.D
Acq: 01 Aug 2023 10:44

Tgt Ion:149 Resp: 835168

Ion	Ratio	Lower	Upper
149	100		
167	27.3	21.6	32.4
279	4.3	3.5	5.3

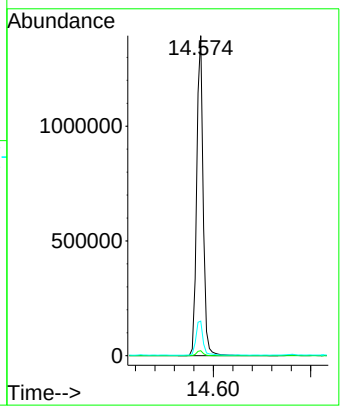




#85
Di-n-octyl phthalate
Concen: 50.696 ng
RT: 14.574 min Scan# 21
Delta R.T. 0.000 min
Lab File: BF134541.D
Acq: 01 Aug 2023 10:44

Tgt Ion:149 Resp: 129071

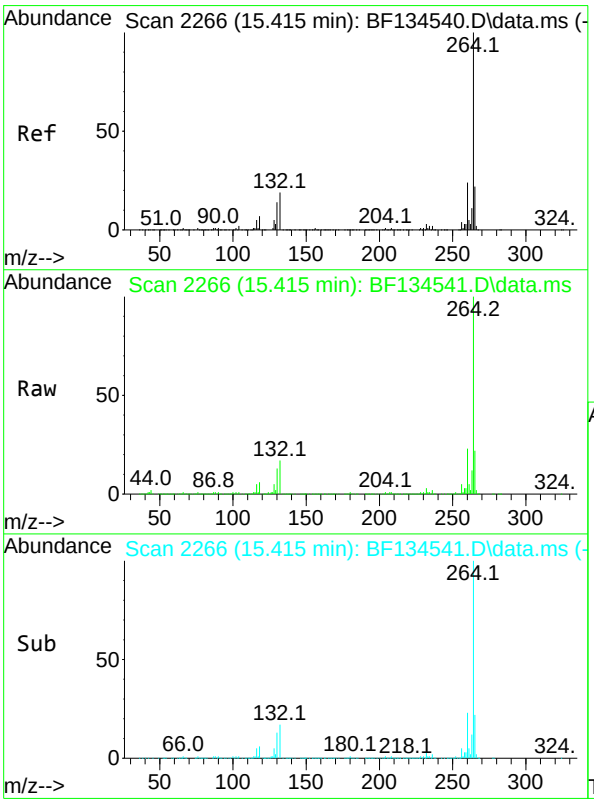
Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.2	1.8
43	11.9	8.1	12.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

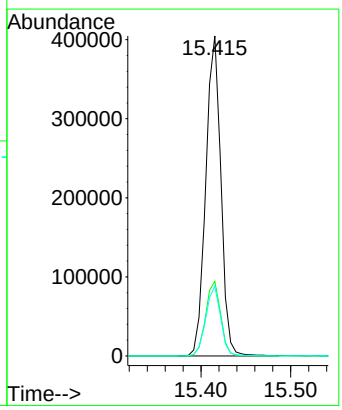
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

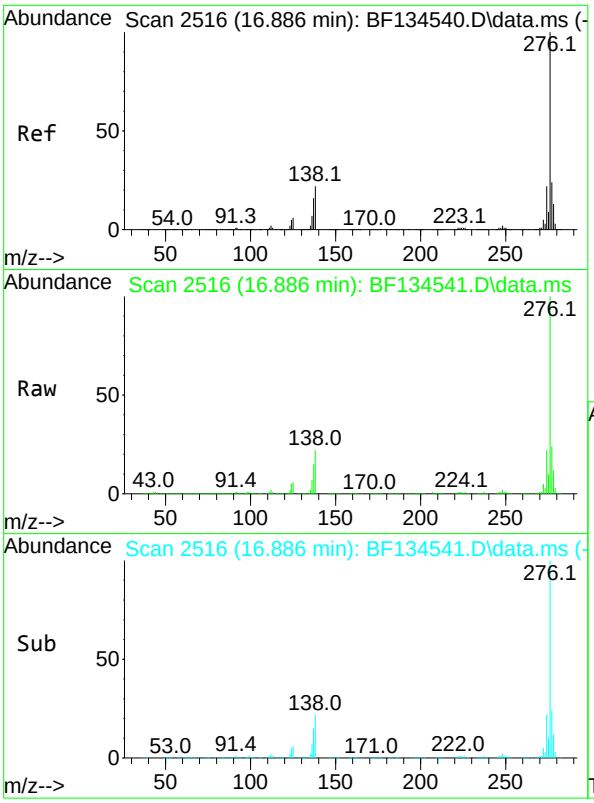


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.415 min Scan# 2266
Delta R.T. 0.000 min
Lab File: BF134541.D
Acq: 01 Aug 2023 10:44

Tgt Ion:264 Resp: 473029

Ion	Ratio	Lower	Upper
264	100		
260	23.4	18.4	27.6
265	21.8	15.8	23.8

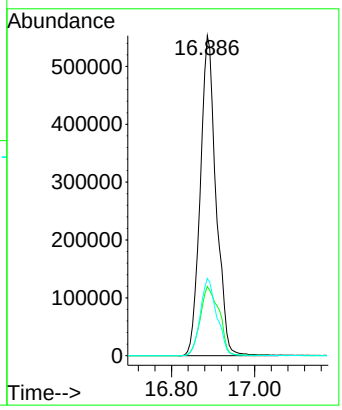




#87
Indeno(1,2,3-cd)pyrene
Concen: 52.473 ng
RT: 16.886 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF134541.D
Acq: 01 Aug 2023 10:44

Tgt Ion:276 Resp: 145979

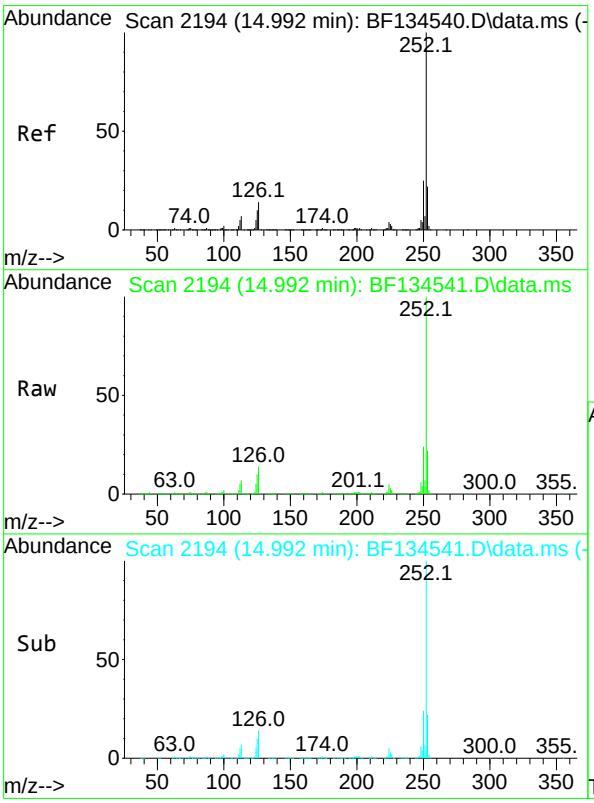
Ion	Ratio	Lower	Upper
276	100		
138	25.8	14.2	21.4#
277	25.3	19.9	29.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

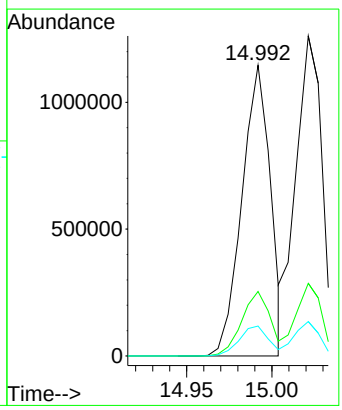
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

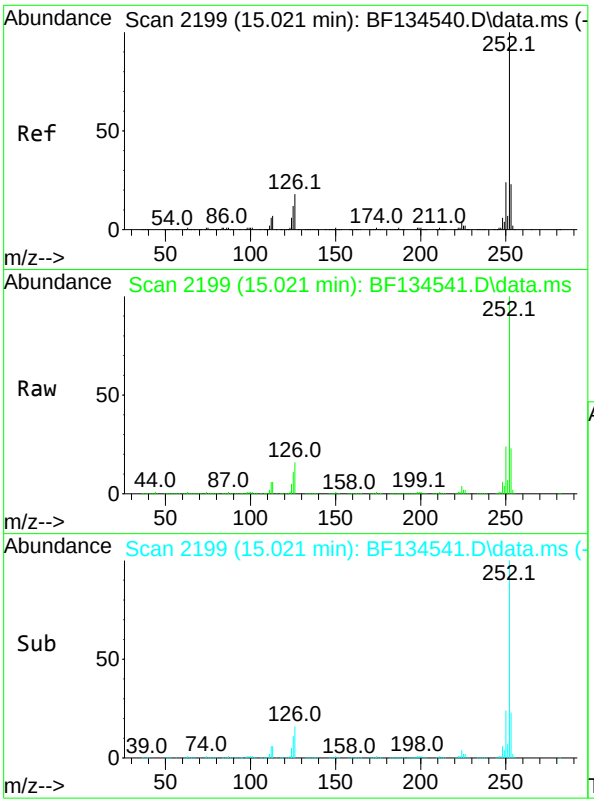


#88
Benzo(b)fluoranthene
Concen: 46.285 ng
RT: 14.992 min Scan# 2194
Delta R.T. 0.000 min
Lab File: BF134541.D
Acq: 01 Aug 2023 10:44

Tgt Ion:252 Resp: 1335309

Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.3	25.9
125	10.3	6.0	9.0#

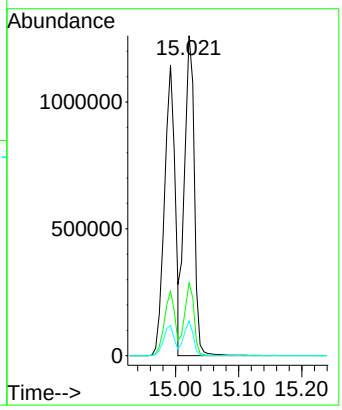




#89
Benzo(k)fluoranthene
Concen: 47.920 ng
RT: 15.021 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF134541.D
Acq: 01 Aug 2023 10:44

Tgt Ion:252 Resp: 137717

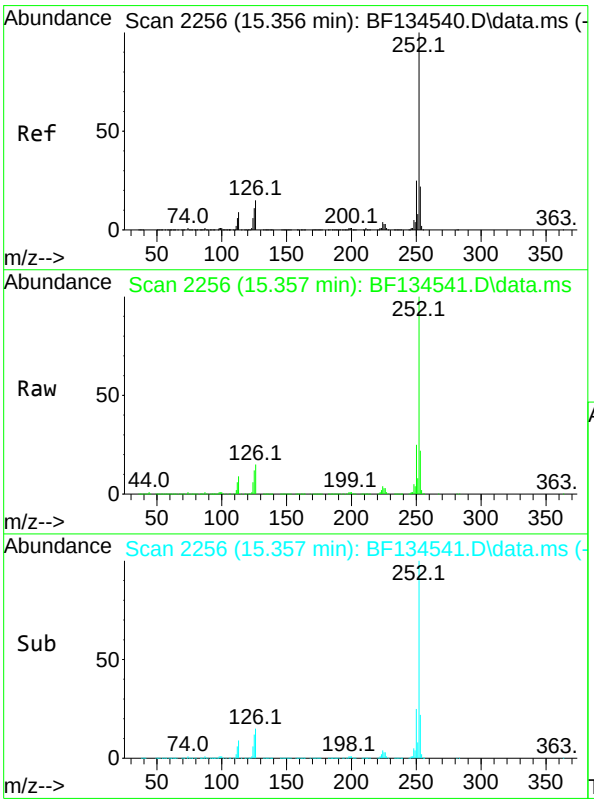
Ion	Ratio	Lower	Upper
252	100		
253	22.7	17.9	26.9
125	10.8	6.3	9.5#



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

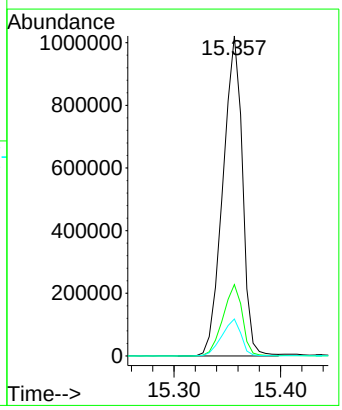
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

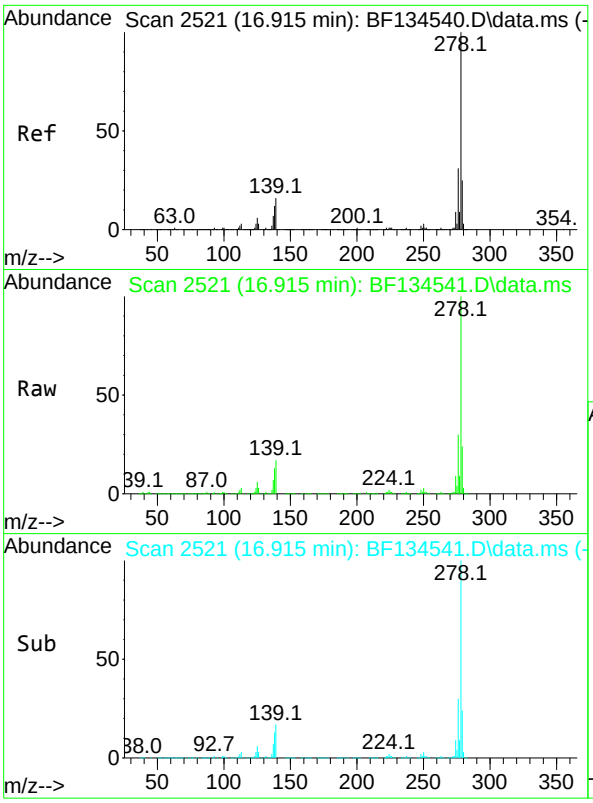


#90
Benzo(a)pyrene
Concen: 48.306 ng
RT: 15.357 min Scan# 2256
Delta R.T. 0.000 min
Lab File: BF134541.D
Acq: 01 Aug 2023 10:44

Tgt Ion:252 Resp: 1299365

Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.0	25.4
125	11.6	6.2	9.4#

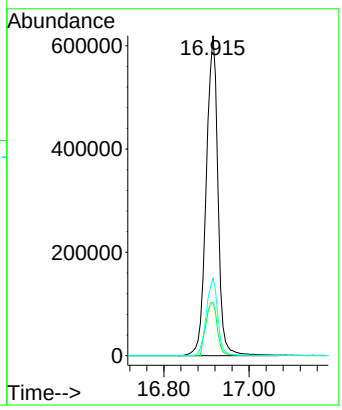




#91
Dibenzo(a,h)anthracene
Concen: 52.644 ng
RT: 16.915 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF134541.D
Acq: 01 Aug 2023 10:44

Tgt Ion:278 Resp: 118358

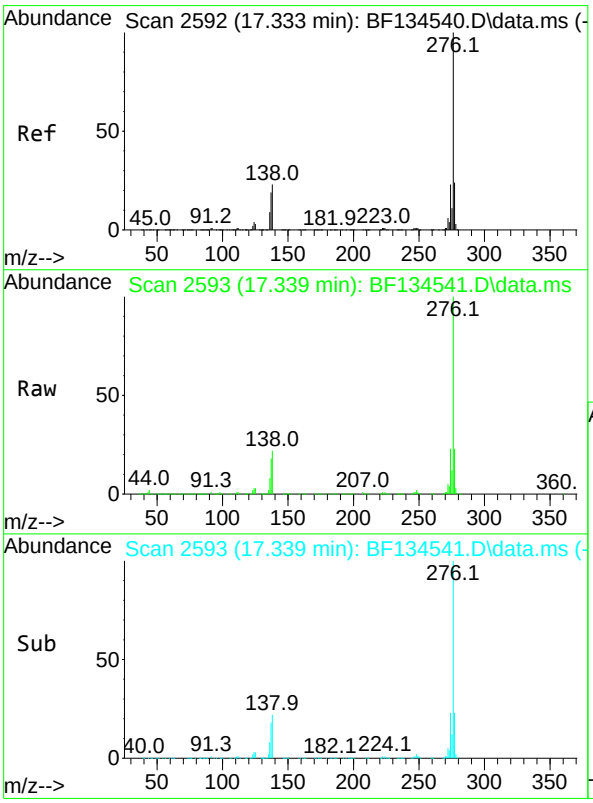
Ion	Ratio	Lower	Upper
278	100		
139	16.7	10.0	15.0#
279	24.1	19.7	29.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

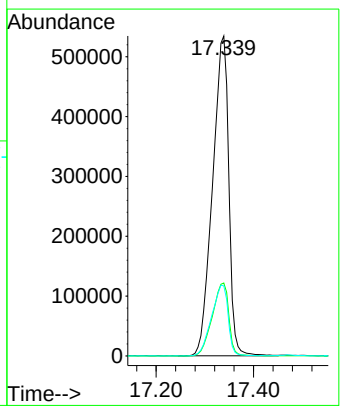
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023



#92
Benzo(g,h,i)perylene
Concen: 53.752 ng
RT: 17.339 min Scan# 2593
Delta R.T. 0.006 min
Lab File: BF134541.D
Acq: 01 Aug 2023 10:44

Tgt Ion:276 Resp: 1232754

Ion	Ratio	Lower	Upper
276	100		
277	22.8	19.0	28.6
138	21.9	12.2	18.2#



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080123\
Data File : BF134542.D
Acq On : 01 Aug 2023 11:15
Operator : CG\JU
Sample : SSTDICC060
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 02 02:16:01 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 02 02:08:18 2023
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.798	152	223556	20.000	ng		0.00
21) Naphthalene-d8	8.075	136	818461	20.000	ng	#	0.00
39) Acenaphthene-d10	9.827	164	408232	20.000	ng		0.00
64) Phenanthrene-d10	11.316	188	749784	20.000	ng	#	0.00
76) Chrysene-d12	13.963	240	434103	20.000	ng	#	0.00
86) Perylene-d12	15.415	264	462340	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.422	112	1571780	106.875	ng		0.00
7) Phenol-d6	6.434	99	2053239	109.217	ng		0.00
23) Nitrobenzene-d5	7.363	82	1664409	127.084	ng		0.00
42) 2,4,6-Tribromophenol	10.622	330	504547	121.241	ng		0.00
45) 2-Fluorobiphenyl	9.157	172	2598306	105.827	ng		0.00
79) Terphenyl-d14	12.916	244	2969074	120.572	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.551	88	386463	57.114	ng		95
3) Pyridine	3.304	79	1030226	56.187	ng		92
4) n-Nitrosodimethylamine	3.281	42	510442	58.264	ng	#	70
6) Aniline	6.463	93	1388783	56.321	ng		92
8) 2-Chlorophenol	6.587	128	814662	54.913	ng		93
9) Benzaldehyde	6.351	77	447572	61.412	ng		95
10) Phenol	6.445	94	1025049m	55.327	ng		
11) bis(2-Chloroethyl)ether	6.545	93	811900	55.167	ng		93
12) 1,3-Dichlorobenzene	6.739	146	839692	54.705	ng		94
13) 1,4-Dichlorobenzene	6.816	146	831633	54.061	ng		98
14) 1,2-Dichlorobenzene	6.969	146	750814	52.383	ng		96
15) Benzyl Alcohol	6.939	79	692360	53.384	ng		94
16) 2,2'-oxybis(1-Chloropr...	7.075	45	1279378	55.488	ng		89
17) 2-Methylphenol	7.045	107	737303	56.241	ng		93
18) Hexachloroethane	7.310	117	308155	57.075	ng		94
19) n-Nitroso-di-n-propyla...	7.222	70	601921	53.476	ng		92
20) 3+4-Methylphenols	7.204	107	812874	51.415	ng	#	74
22) Acetophenone	7.210	105	1007434	53.318	ng	#	92
24) Nitrobenzene	7.381	77	882568	62.376	ng		98
25) Isophorone	7.622	82	1663403	58.231	ng		99
26) 2-Nitrophenol	7.692	139	380418	61.667	ng	#	92
27) 2,4-Dimethylphenol	7.734	122	717760	56.313	ng		85
28) bis(2-Chloroethoxy)met...	7.833	93	975481	57.086	ng		100
29) 2,4-Dichlorophenol	7.933	162	680824	58.853	ng		98
30) 1,2,4-Trichlorobenzene	8.016	180	704798	57.134	ng		97
31) Naphthalene	8.098	128	2255846	54.841	ng		98
32) Benzoic acid	7.875	122	536975	61.866	ng		91
33) 4-Chloroaniline	8.151	127	1061249	57.902	ng		98
34) Hexachlorobutadiene	8.216	225	403574	56.717	ng		96
35) Caprolactam	8.533	113	233216m	62.466	ng		
36) 4-Chloro-3-methylphenol	8.628	107	718417	58.641	ng		93
37) 2-Methylnaphthalene	8.786	142	1483345	54.404	ng		99
38) 1-Methylnaphthalene	8.886	142	1402442	55.315	ng		98
40) 1,2,4,5-Tetrachloroben...	8.951	216	663509	55.893	ng		99
41) Hexachlorocyclopentadiene	8.939	237	354032	61.328	ng		92
43) 2,4,6-Trichlorophenol	9.063	196	471019	60.627	ng		95

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080123\
Data File : BF134542.D
Acq On : 01 Aug 2023 11:15
Operator : CG\JU
Sample : SSTDICC060
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 02 02:16:01 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 02 02:08:18 2023
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.098	196	524645	59.086	ng		92
46) 1,1'-Biphenyl	9.257	154	1708966	53.834	ng		98
47) 2-Chloronaphthalene	9.280	162	1317250	55.378	ng		97
48) 2-Nitroaniline	9.375	65	465217	61.761	ng		96
49) Acenaphthylene	9.692	152	2068525	55.323	ng		98
50) Dimethylphthalate	9.563	163	1592768	57.245	ng		97
51) 2,6-Dinitrotoluene	9.622	165	354216	61.399	ng	#	83
52) Acenaphthene	9.869	154	1354858	55.915	ng		98
53) 3-Nitroaniline	9.792	138	424843	68.505	ng		98
54) 2,4-Dinitrophenol	9.886	184	128437	62.874	ng		88
55) Dibenzofuran	10.039	168	1875802	54.381	ng		96
56) 4-Nitrophenol	9.939	139	334775	66.002	ng	#	81
57) 2,4-Dinitrotoluene	10.022	165	442563	63.306	ng		93
58) Fluorene	10.380	166	1305138	51.947	ng		97
59) 2,3,4,6-Tetrachlorophenol	10.151	232	419333	59.593	ng		95
60) Diethylphthalate	10.263	149	1494743	56.677	ng		96
61) 4-Chlorophenyl-phenyle...	10.374	204	650104	52.642	ng		94
62) 4-Nitroaniline	10.410	138	415928	68.425	ng		87
63) Azobenzene	10.539	77	1595081	56.292	ng		98
65) 4,6-Dinitro-2-methylph...	10.427	198	197287	62.002	ng		96
66) n-Nitrosodiphenylamine	10.498	169	1337867	56.060	ng		99
67) 4-Bromophenyl-phenylether	10.869	248	470848	57.366	ng		92
68) Hexachlorobenzene	10.922	284	497660	57.418	ng		99
69) Atrazine	11.027	200	343841	53.454	ng		97
70) Pentachlorophenol	11.116	266	346415	64.552	ng		96
71) Phenanthrene	11.345	178	2158717	54.204	ng		99
72) Anthracene	11.398	178	2219716	54.566	ng		98
73) Carbazole	11.551	167	2009746	55.332	ng		99
74) Di-n-butylphthalate	11.892	149	2203310	57.098	ng		98
75) Fluoranthene	12.533	202	2320837	55.168	ng		96
77) Benzidine	12.657	184	465831	49.433	ng		97
78) Pyrene	12.763	202	2375644	63.243	ng		96
80) Butylbenzylphthalate	13.392	149	881407	69.392	ng	#	92
81) Benzo(a)anthracene	13.951	228	1856351	59.804	ng		100
82) 3,3'-Dichlorobenzidine	13.921	252	532400	59.172	ng		98
83) Chrysene	13.992	228	1829321	60.490	ng		99
84) Bis(2-ethylhexyl)phtha...	13.957	149	937537	62.721	ng		98
85) Di-n-octyl phthalate	14.574	149	1557205	68.506	ng		96
87) Indeno(1,2,3-cd)pyrene	16.892	276	1824634	67.103	ng	#	92
88) Benzo(b)fluoranthene	14.992	252	1640901	58.193	ng	#	96
89) Benzo(k)fluoranthene	15.027	252	1589236	56.577	ng	#	98
90) Benzo(a)pyrene	15.362	252	1571940	59.790	ng	#	97
91) Dibenzo(a,h)anthracene	16.921	278	1463156	66.583	ng	#	96
92) Benzo(g,h,i)perylene	17.345	276	1513283	67.510	ng	#	92

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

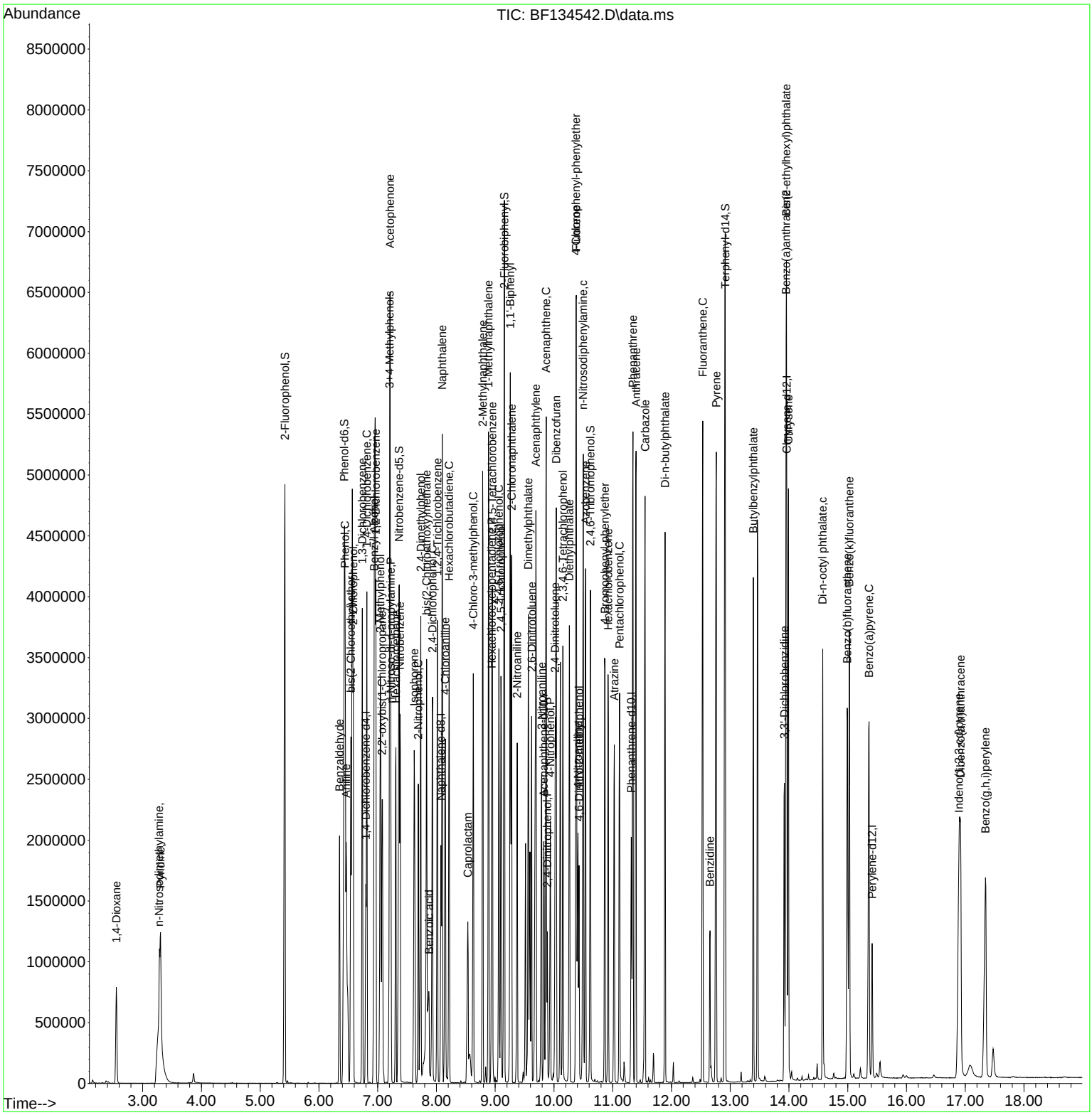
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080123\
Data File : BF134542.D
Acq On : 01 Aug 2023 11:15
Operator : CG\JU
Sample : SSTDICC060
Misc :
ALS Vial : 8 Sample Multiplier: 1

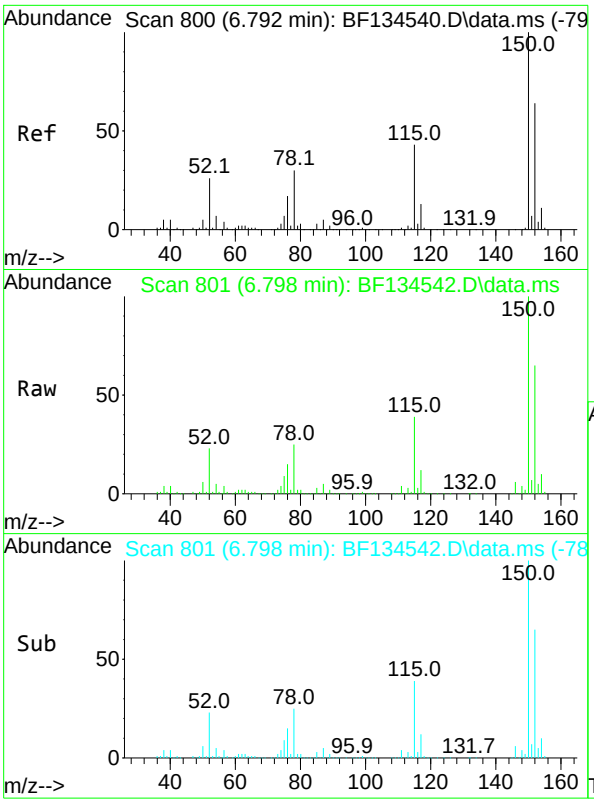
Quant Time: Aug 02 02:16:01 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 02 02:08:18 2023
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

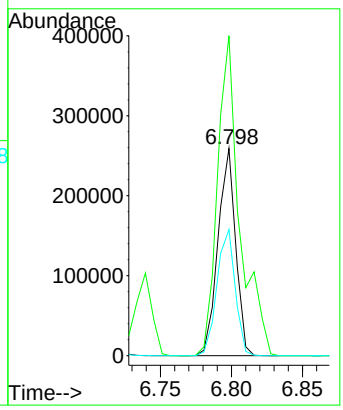




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.798 min Scan# 8(
Delta R.T. 0.006 min
Lab File: BF134542.D
Acq: 01 Aug 2023 11:15

Tgt Ion:152 Resp: 22355(

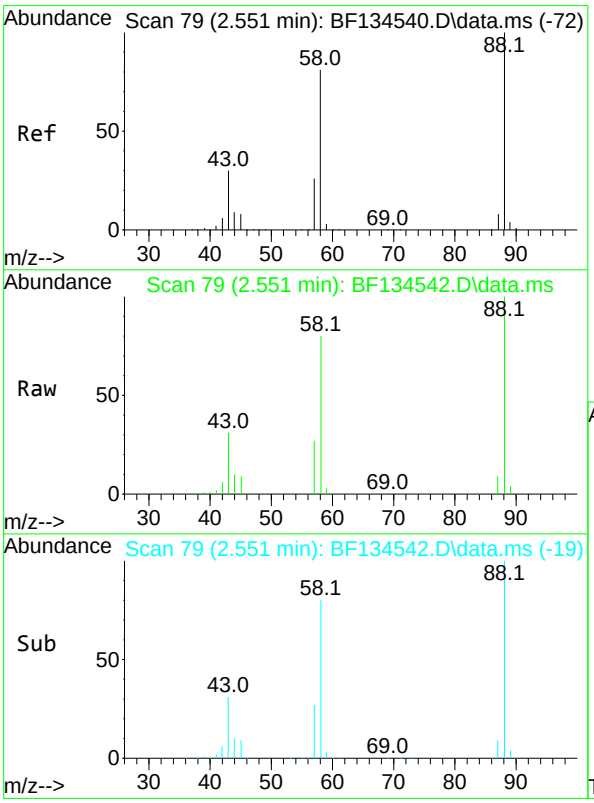
Ion	Ratio	Lower	Upper
152	100		
150	154.5	128.3	192.5
115	60.9	52.4	78.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

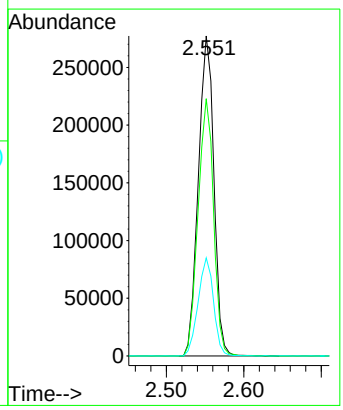
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

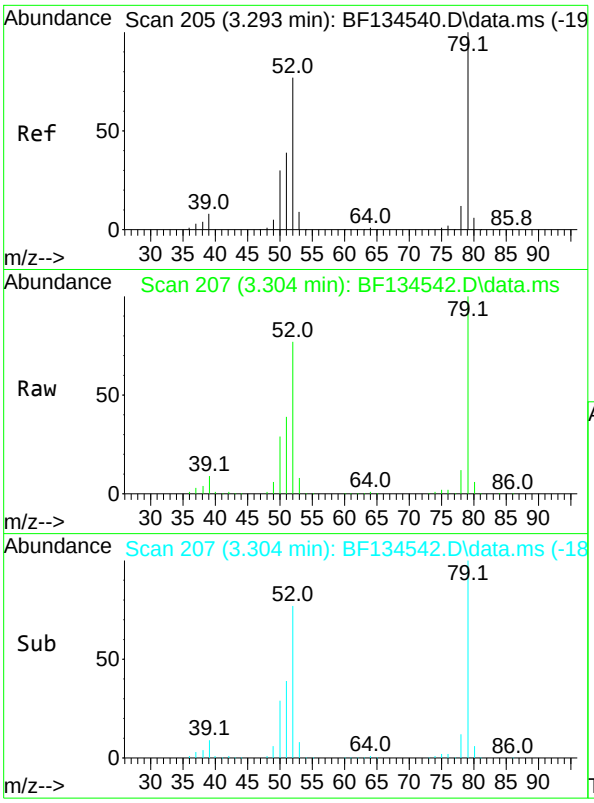


#2
1,4-Dioxane
Concen: 57.114 ng
RT: 2.551 min Scan# 79
Delta R.T. 0.000 min
Lab File: BF134542.D
Acq: 01 Aug 2023 11:15

Tgt Ion: 88 Resp: 386463

Ion	Ratio	Lower	Upper
88	100		
58	80.3	65.1	97.7
43	30.5	30.3	45.5

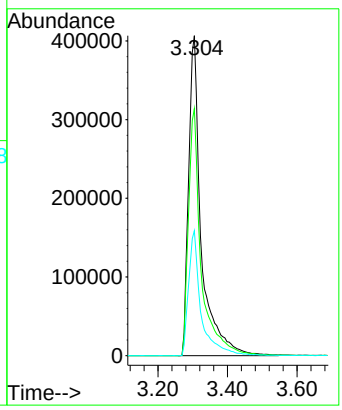




#3
Pyridine
Concen: 56.187 ng
RT: 3.304 min Scan# 2
Delta R.T. 0.012 min
Lab File: BF134542.D
Acq: 01 Aug 2023 11:15

Tgt Ion: 79 Resp: 103022

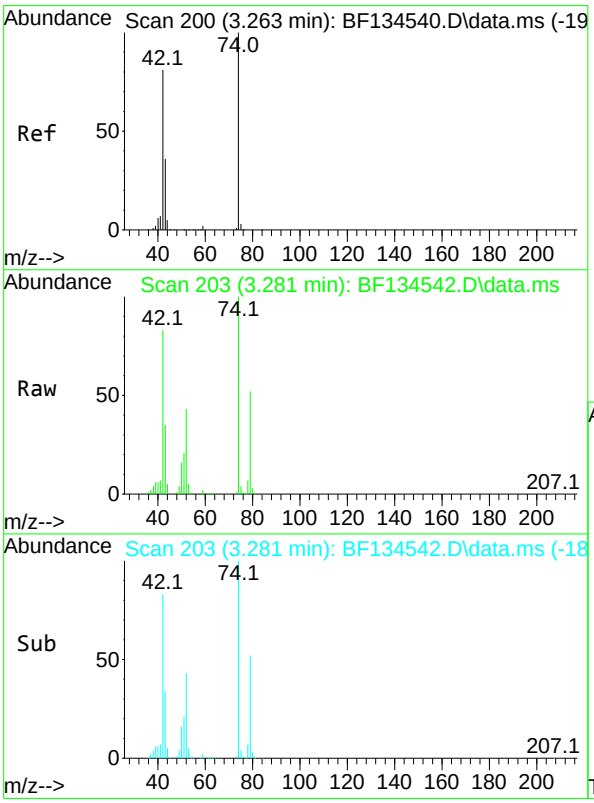
Ion	Ratio	Lower	Upper
79	100		
52	77.2	66.6	100.0
51	39.0	36.5	54.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

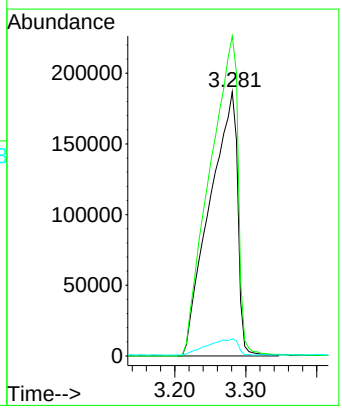
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

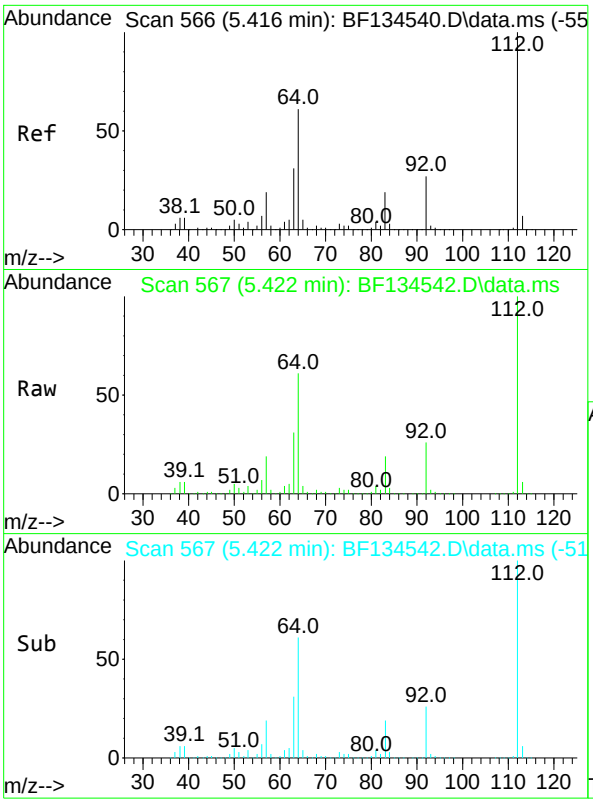


#4
n-Nitrosodimethylamine
Concen: 58.264 ng
RT: 3.281 min Scan# 203
Delta R.T. 0.018 min
Lab File: BF134542.D
Acq: 01 Aug 2023 11:15

Tgt Ion: 42 Resp: 510442

Ion	Ratio	Lower	Upper
42	100		
74	121.2	72.2	108.4#
44	6.5	5.4	8.0

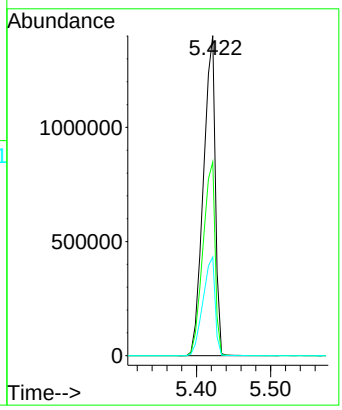




#5
2-Fluorophenol
Concen: 106.875 ng
RT: 5.422 min Scan# 5
Delta R.T. 0.006 min
Lab File: BF134542.D
Acq: 01 Aug 2023 11:15

Tgt Ion:112 Resp: 157178

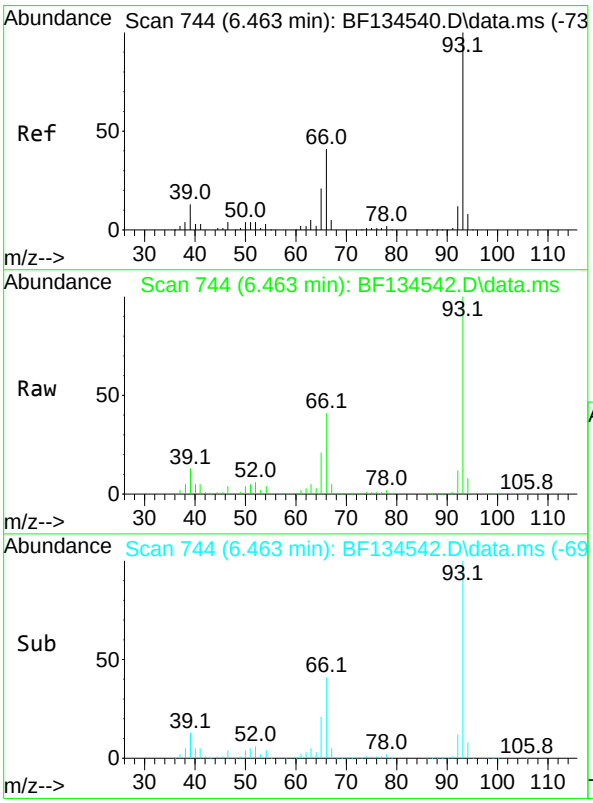
Ion	Ratio	Lower	Upper
112	100		
64	60.5	44.9	67.3
63	30.8	25.4	38.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

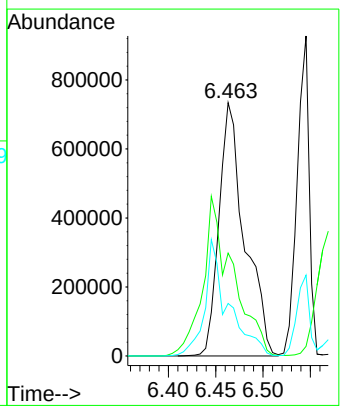
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

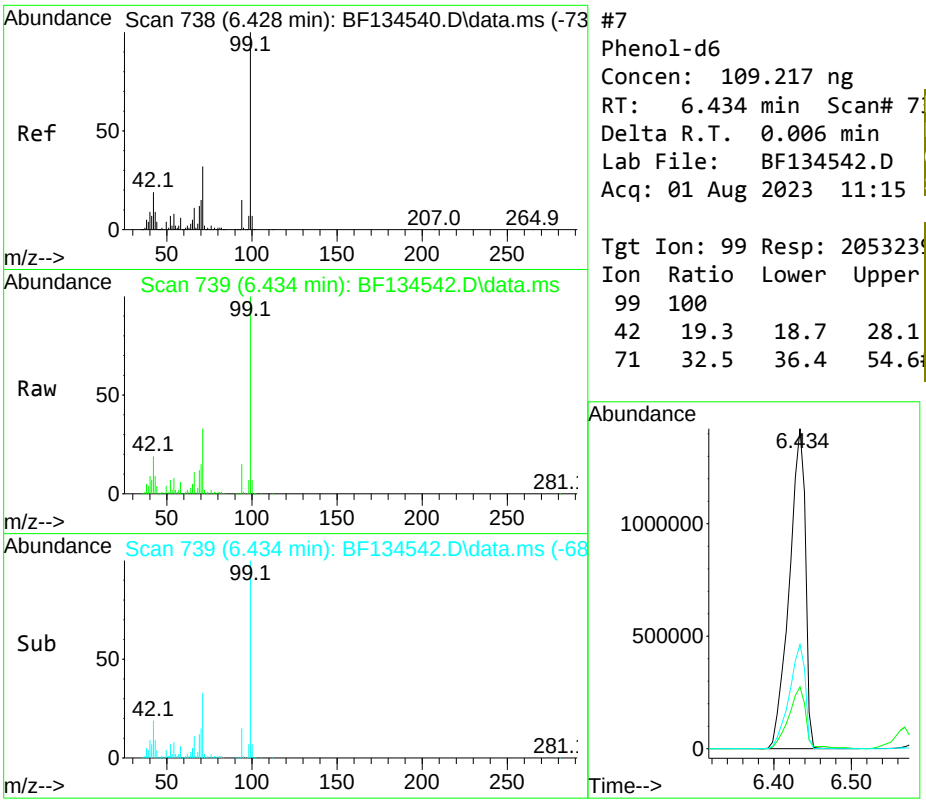


#6
Aniline
Concen: 56.321 ng
RT: 6.463 min Scan# 744
Delta R.T. 0.000 min
Lab File: BF134542.D
Acq: 01 Aug 2023 11:15

Tgt Ion: 93 Resp: 1388783

Ion	Ratio	Lower	Upper
93	100		
66	40.7	36.8	55.2
65	20.7	19.4	29.0





#7
Phenol-d6
Concen: 109.217 ng
RT: 6.434 min Scan# 7
Delta R.T. 0.006 min
Lab File: BF134542.D
Acq: 01 Aug 2023 11:15

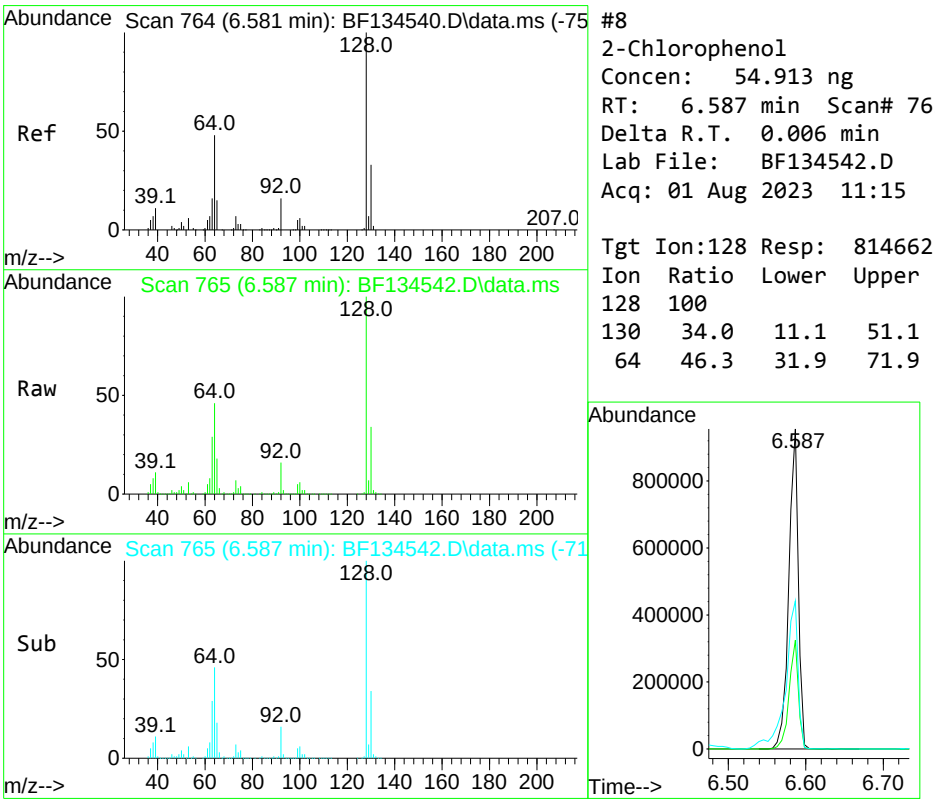
Tgt Ion: 99 Resp: 205323

Ion	Ratio	Lower	Upper
99	100		
42	19.3	18.7	28.1
71	32.5	36.4	54.6

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

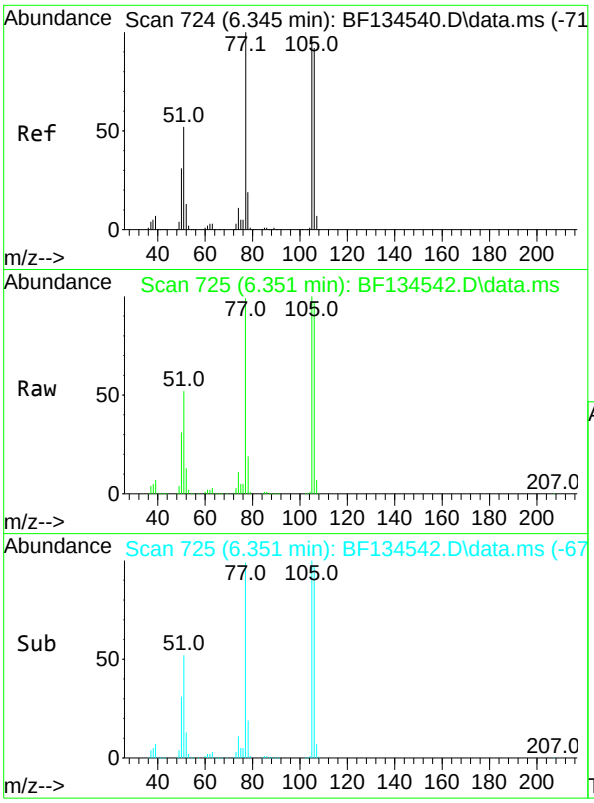
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023



#8
2-Chlorophenol
Concen: 54.913 ng
RT: 6.587 min Scan# 765
Delta R.T. 0.006 min
Lab File: BF134542.D
Acq: 01 Aug 2023 11:15

Tgt Ion:128 Resp: 814662

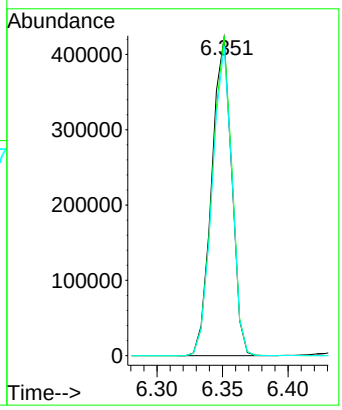
Ion	Ratio	Lower	Upper
128	100		
130	34.0	11.1	51.1
64	46.3	31.9	71.9



#9
Benzaldehyde
Concen: 61.412 ng
RT: 6.351 min Scan# 7
Delta R.T. 0.006 min
Lab File: BF134542.D
Acq: 01 Aug 2023 11:15

Tgt Ion: 77 Resp: 44757

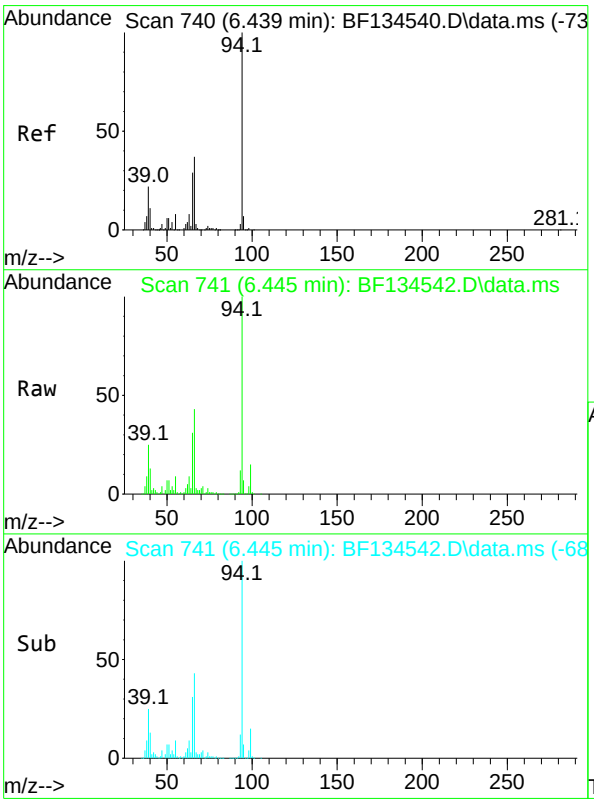
Ion	Ratio	Lower	Upper
77	100		
105	100.7	77.1	117.1
106	97.4	71.4	111.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

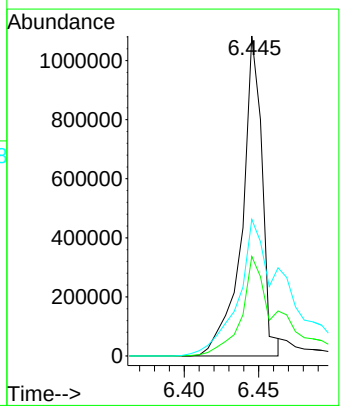
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

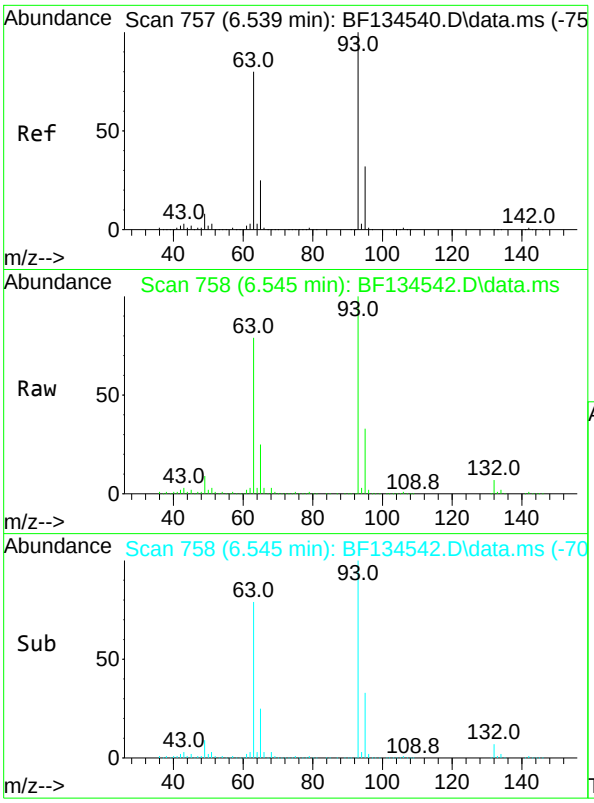


#10
Phenol
Concen: 55.327 ng m
RT: 6.445 min Scan# 741
Delta R.T. 0.006 min
Lab File: BF134542.D
Acq: 01 Aug 2023 11:15

Tgt Ion: 94 Resp: 1025049

Ion	Ratio	Lower	Upper
94	100		
65	31.1	17.8	57.8
66	42.7	35.2	75.2

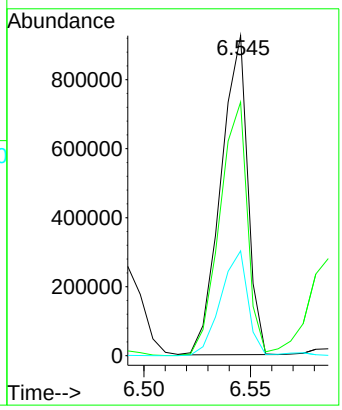




#11
bis(2-Chloroethyl)ether
Concen: 55.167 ng
RT: 6.545 min Scan# 7
Delta R.T. 0.006 min
Lab File: BF134542.D
Acq: 01 Aug 2023 11:15

Tgt Ion: 93 Resp: 81190

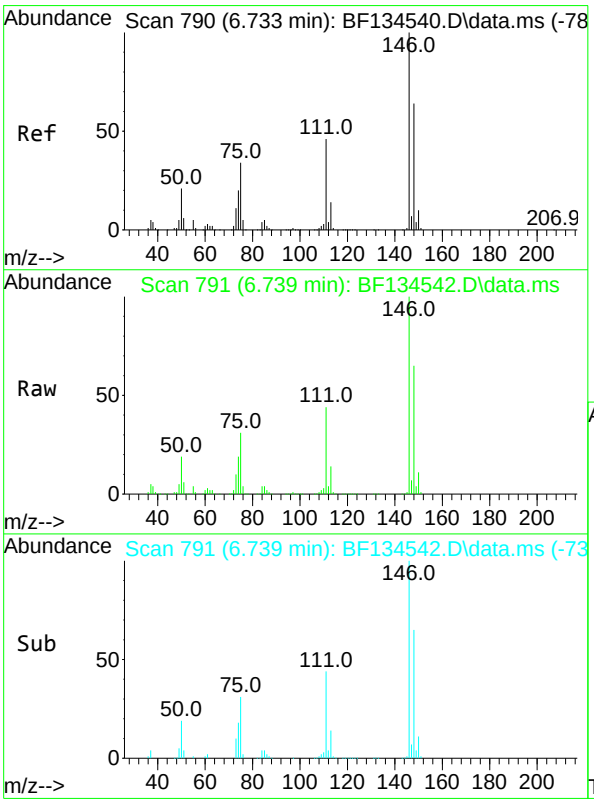
Ion	Ratio	Lower	Upper
93	100		
63	79.2	68.4	108.4
95	32.8	12.4	52.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

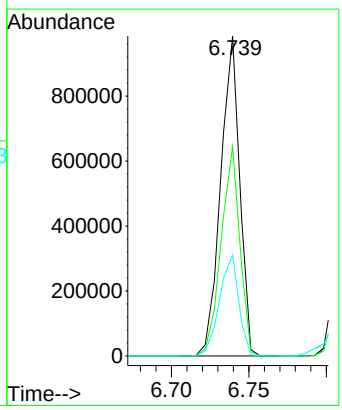
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

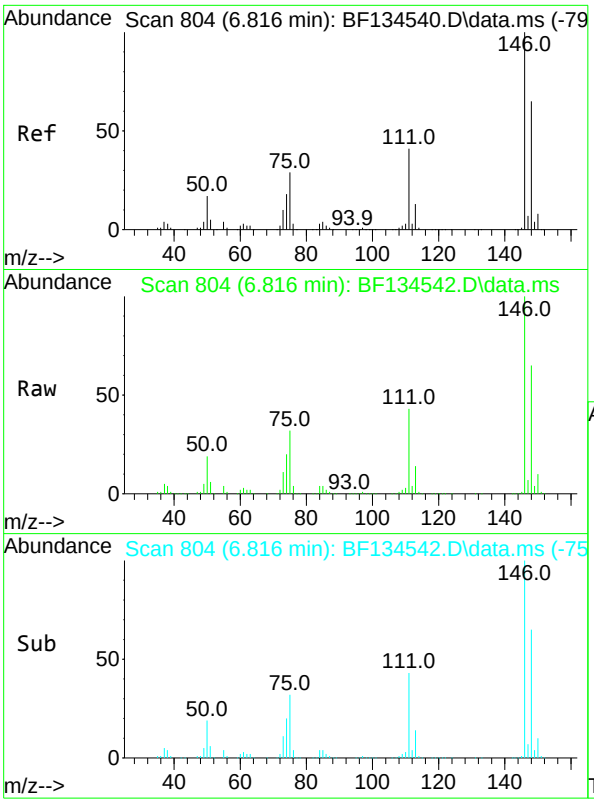


#12
1,3-Dichlorobenzene
Concen: 54.705 ng
RT: 6.739 min Scan# 791
Delta R.T. 0.006 min
Lab File: BF134542.D
Acq: 01 Aug 2023 11:15

Tgt Ion:146 Resp: 839692

Ion	Ratio	Lower	Upper
146	100		
148	65.4	49.7	74.5
75	31.5	29.5	44.3

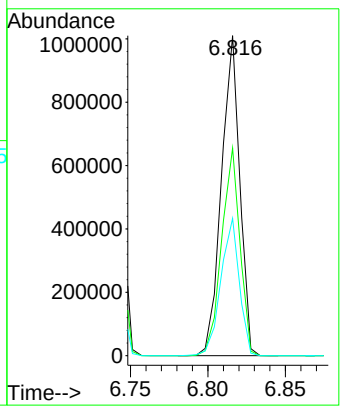




#13
1,4-Dichlorobenzene
Concen: 54.061 ng
RT: 6.816 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF134542.D
Acq: 01 Aug 2023 11:15

Tgt Ion:146 Resp: 83163

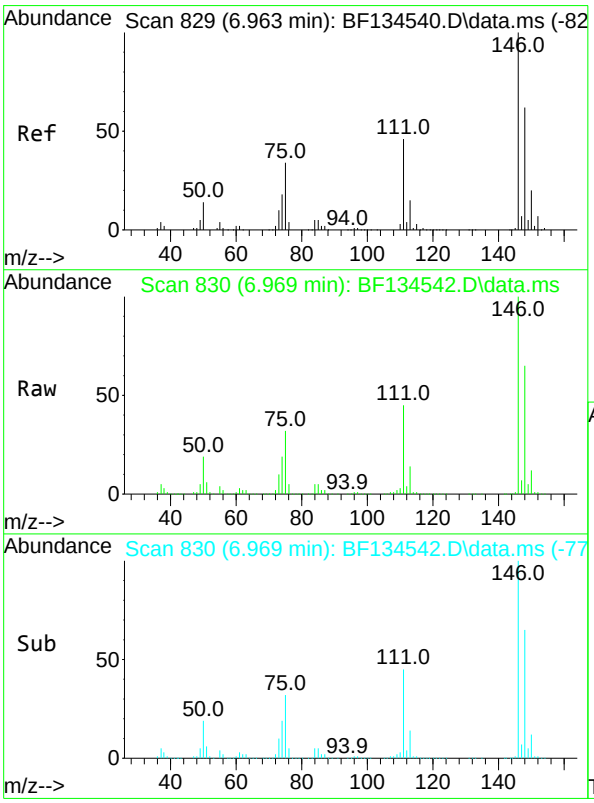
Ion	Ratio	Lower	Upper
146	100		
148	64.9	51.3	76.9
111	42.9	36.6	55.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

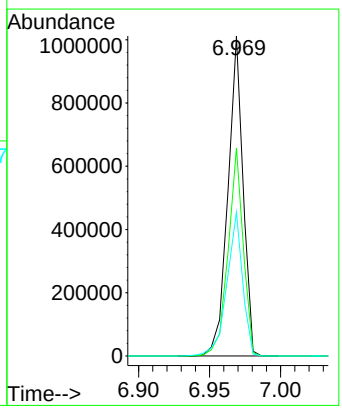
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

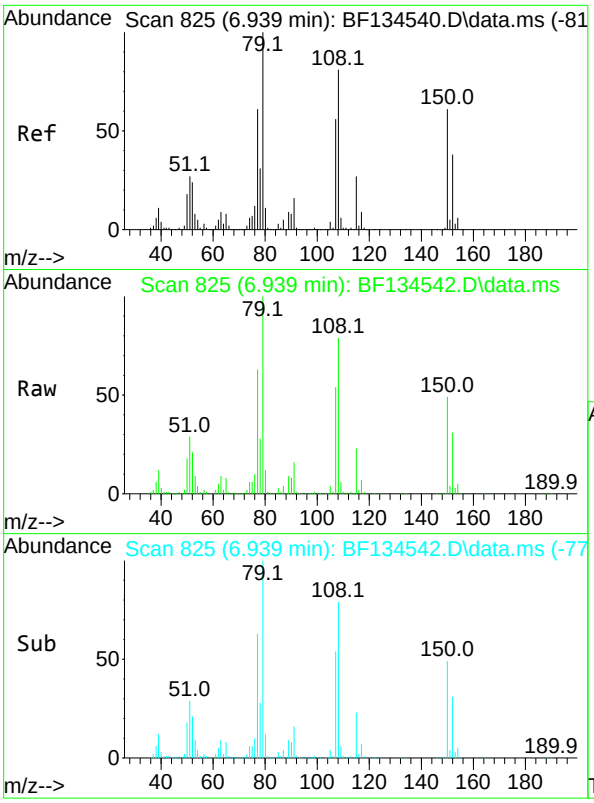


#14
1,2-Dichlorobenzene
Concen: 52.383 ng
RT: 6.969 min Scan# 830
Delta R.T. 0.006 min
Lab File: BF134542.D
Acq: 01 Aug 2023 11:15

Tgt Ion:146 Resp: 750814

Ion	Ratio	Lower	Upper
146	100		
148	65.0	51.2	76.8
111	45.0	39.9	59.9

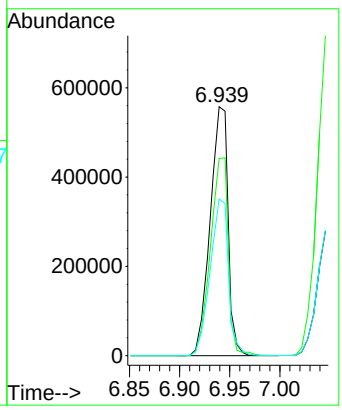




#15
Benzyl Alcohol
Concen: 53.384 ng
RT: 6.939 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF134542.D
Acq: 01 Aug 2023 11:15

Tgt Ion: 79 Resp: 69236

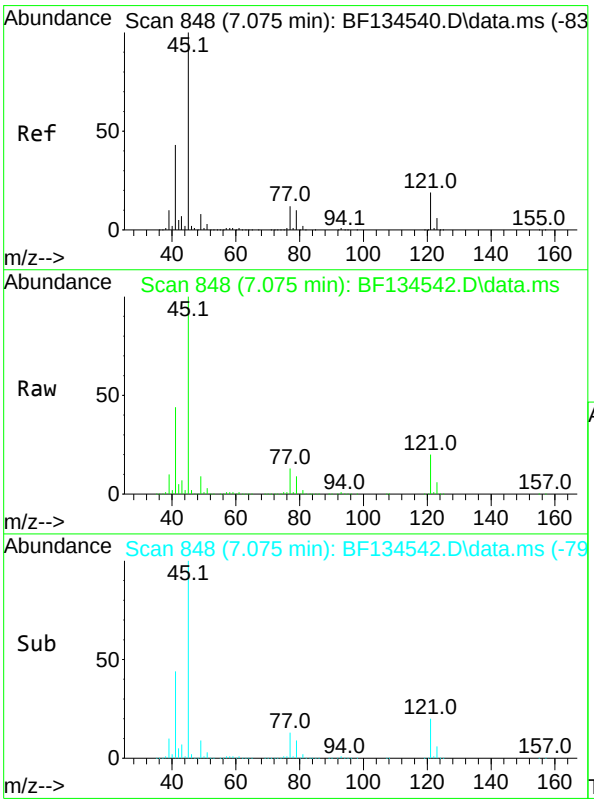
Ion	Ratio	Lower	Upper
79	100		
108	79.2	56.3	84.5
77	62.9	50.6	76.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

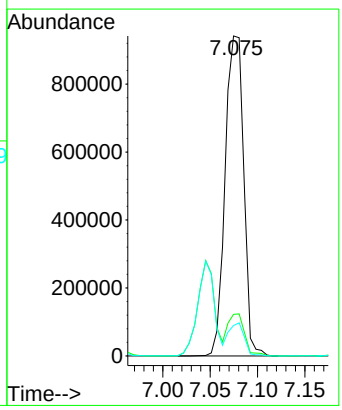
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

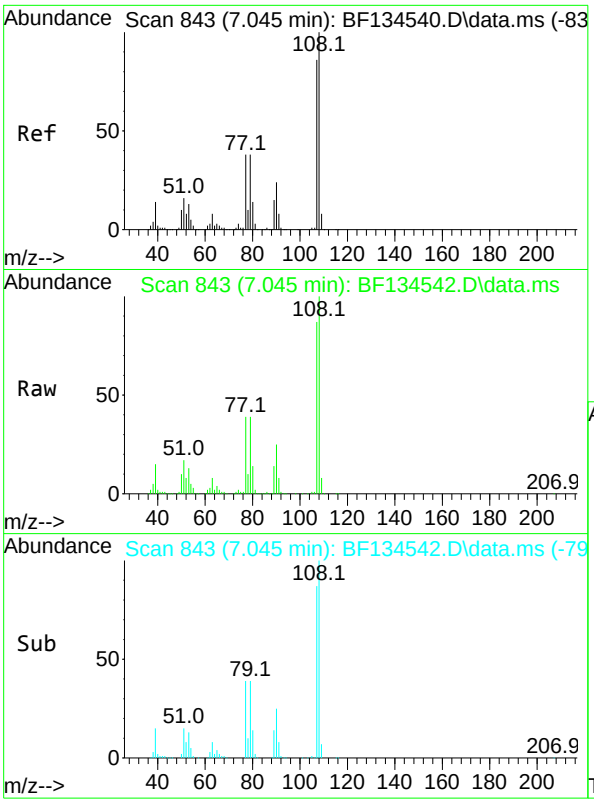


#16
2,2'-oxybis(1-Chloropropane)
Concen: 55.488 ng
RT: 7.075 min Scan# 848
Delta R.T. 0.000 min
Lab File: BF134542.D
Acq: 01 Aug 2023 11:15

Tgt Ion: 45 Resp: 1279378

Ion	Ratio	Lower	Upper
45	100		
77	13.0	0.0	37.8
79	9.5	0.0	34.5

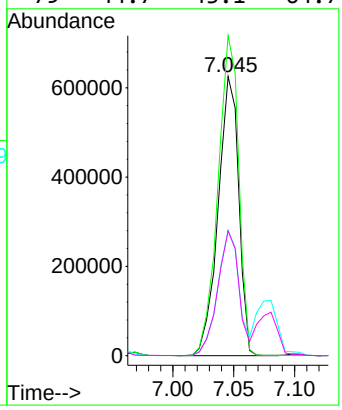




#17
2-Methylphenol
Concen: 56.241 ng
RT: 7.045 min Scan# 84
Delta R.T. 0.000 min
Lab File: BF134542.D
Acq: 01 Aug 2023 11:15

Tgt Ion:107 Resp: 73730

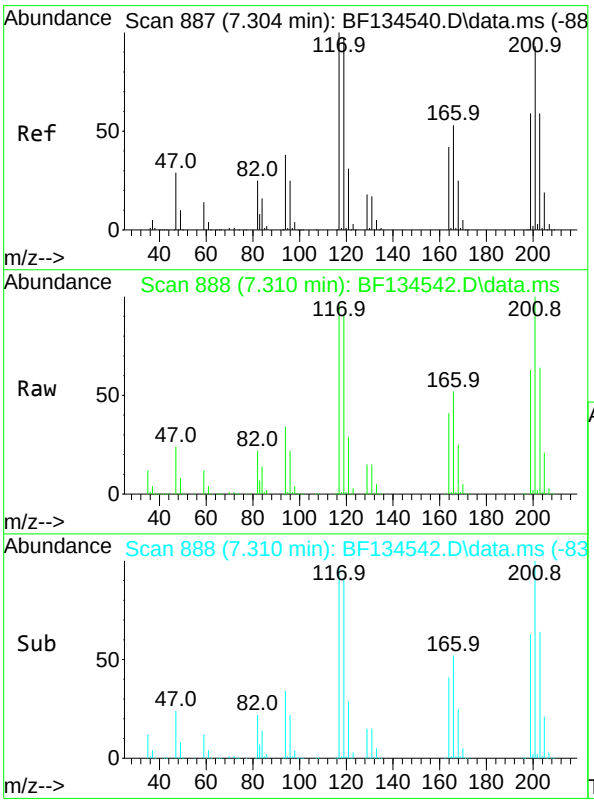
Ion	Ratio	Lower	Upper
107	100		
108	114.6	89.4	134.2
77	44.9	42.4	63.6
79	44.7	43.1	64.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

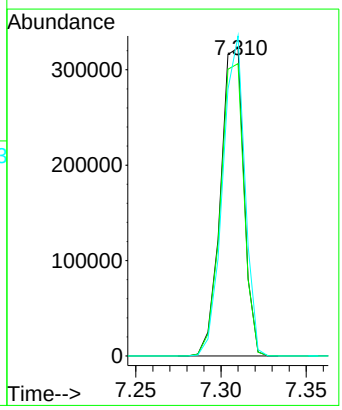
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

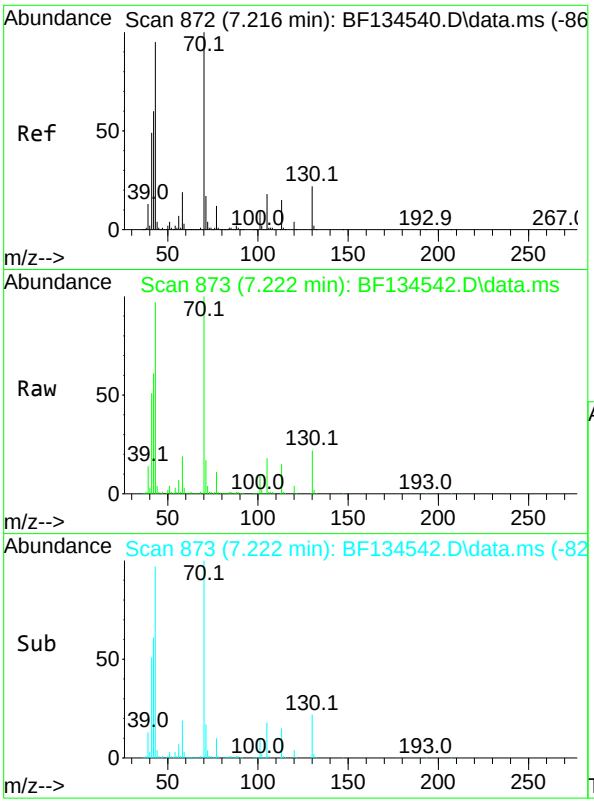


#18
Hexachloroethane
Concen: 57.075 ng
RT: 7.310 min Scan# 888
Delta R.T. 0.006 min
Lab File: BF134542.D
Acq: 01 Aug 2023 11:15

Tgt Ion:117 Resp: 308155

Ion	Ratio	Lower	Upper
117	100		
119	94.9	75.8	113.8
201	103.8	73.6	110.4

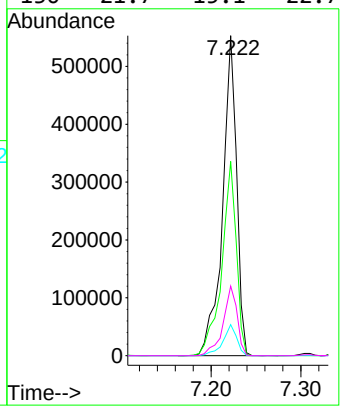




#19
n-Nitroso-di-n-propylamine
Concen: 53.476 ng
RT: 7.222 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF134542.D
Acq: 01 Aug 2023 11:15

Tgt Ion: 70 Resp: 60192

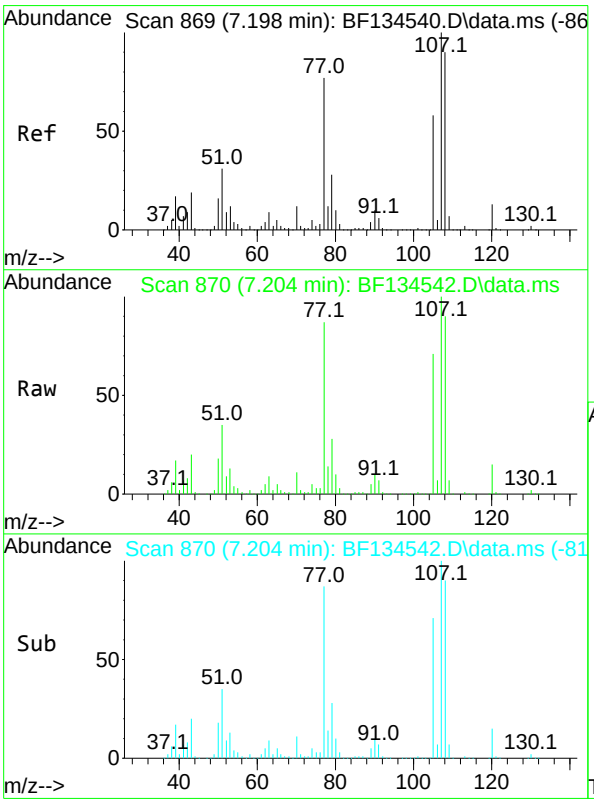
Ion	Ratio	Lower	Upper
70	100		
42	60.7	54.7	82.1
101	9.7	8.2	12.2
130	21.7	15.1	22.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

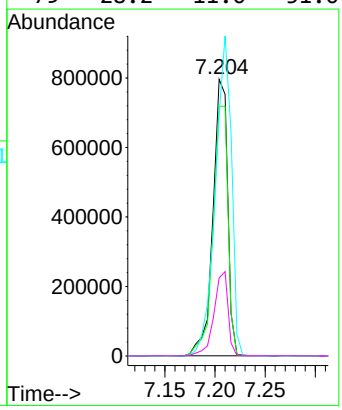
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

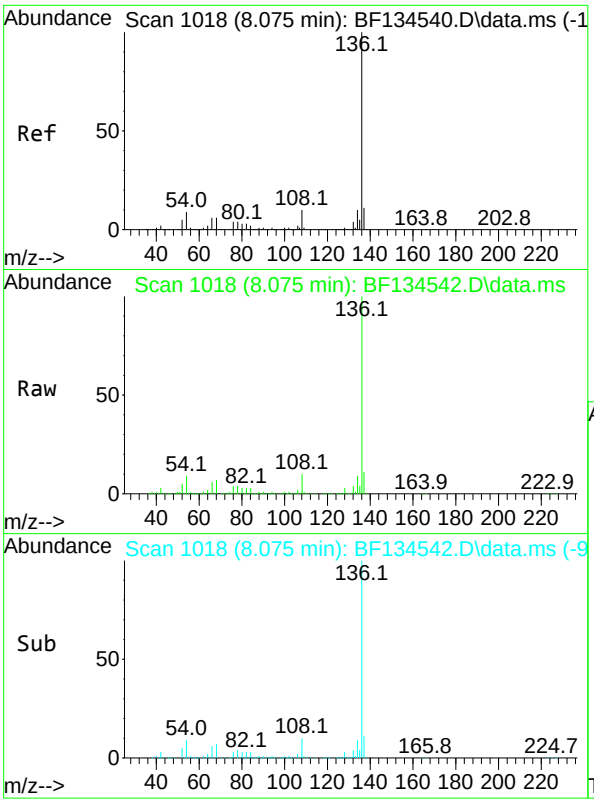


#20
3+4-Methylphenols
Concen: 51.415 ng
RT: 7.204 min Scan# 870
Delta R.T. 0.006 min
Lab File: BF134542.D
Acq: 01 Aug 2023 11:15

Tgt Ion:107 Resp: 812874

Ion	Ratio	Lower	Upper
107	100		
108	90.2	68.1	108.1
77	87.4	122.1	162.1#
79	28.2	11.0	51.0

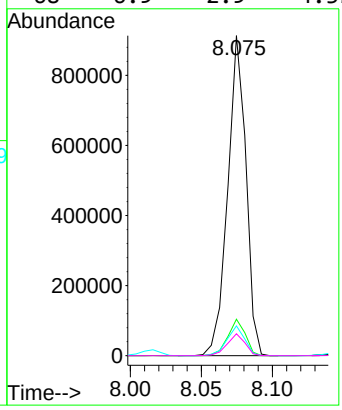




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.075 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134542.D
Acq: 01 Aug 2023 11:15

Tgt Ion:136 Resp: 81846

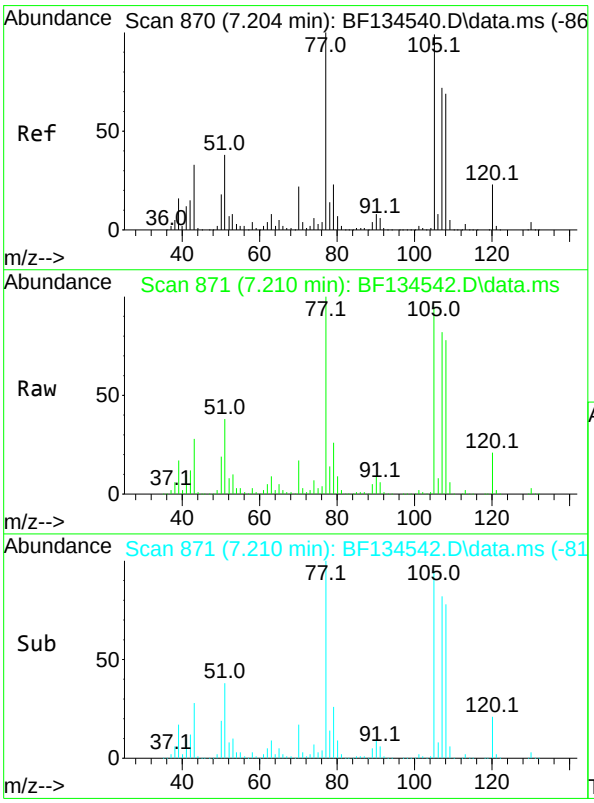
Ion	Ratio	Lower	Upper
136	100		
137	11.4	8.4	12.6
54	9.3	5.2	7.8#
68	6.9	2.9	4.3#



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

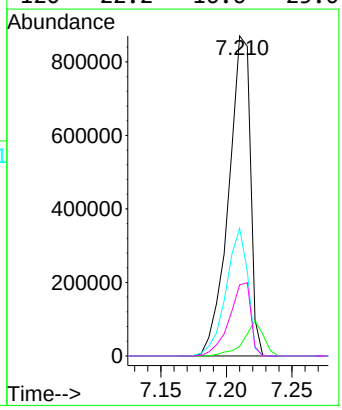
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

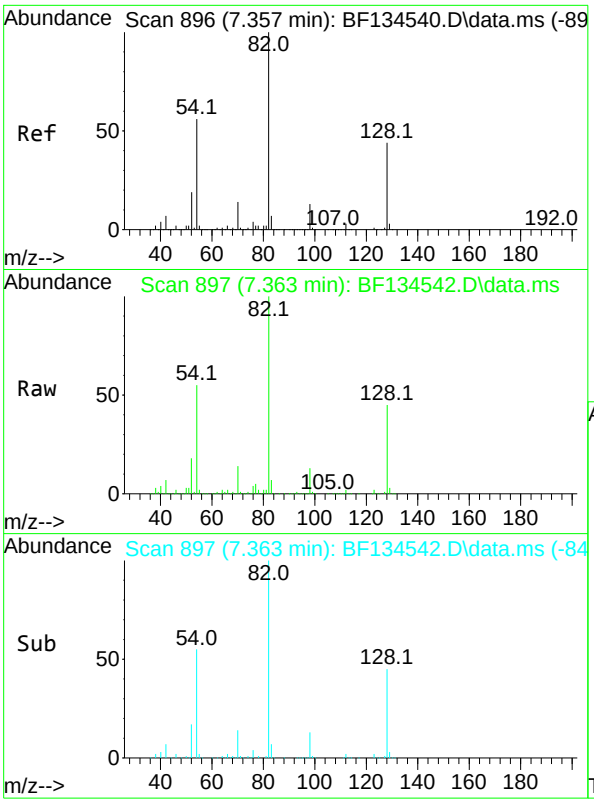


#22
Acetophenone
Concen: 53.318 ng
RT: 7.210 min Scan# 871
Delta R.T. 0.006 min
Lab File: BF134542.D
Acq: 01 Aug 2023 11:15

Tgt Ion:105 Resp: 1007434

Ion	Ratio	Lower	Upper
105	100		
71	3.0	7.4	11.0#
51	39.8	36.4	54.6
120	22.2	16.6	25.0

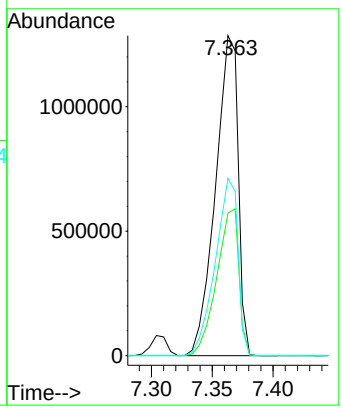




#23
Nitrobenzene-d5
Concen: 127.084 ng
RT: 7.363 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF134542.D
Acq: 01 Aug 2023 11:15

Tgt Ion: 82 Resp: 166440

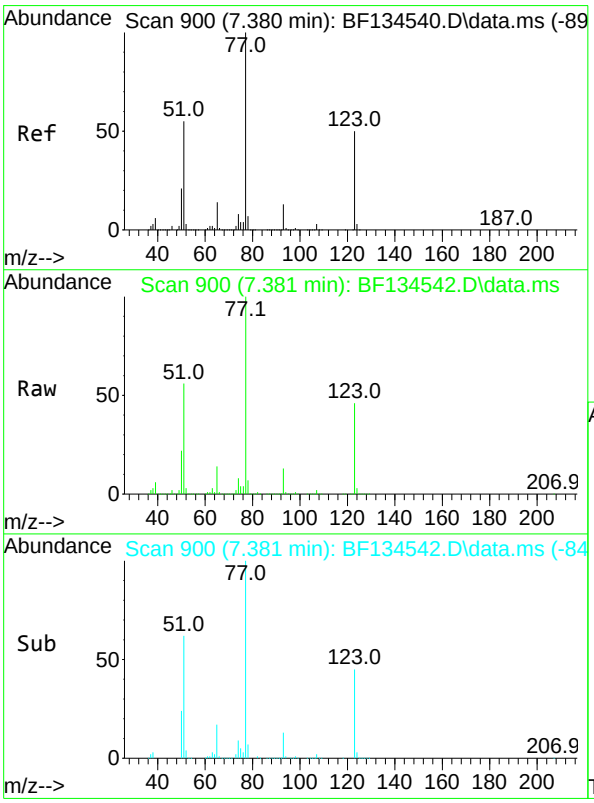
Ion	Ratio	Lower	Upper
82	100		
128	44.5	34.3	51.5
54	55.4	43.8	65.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

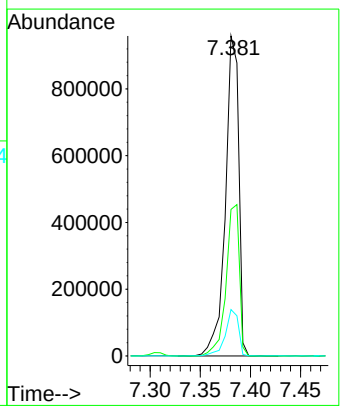
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

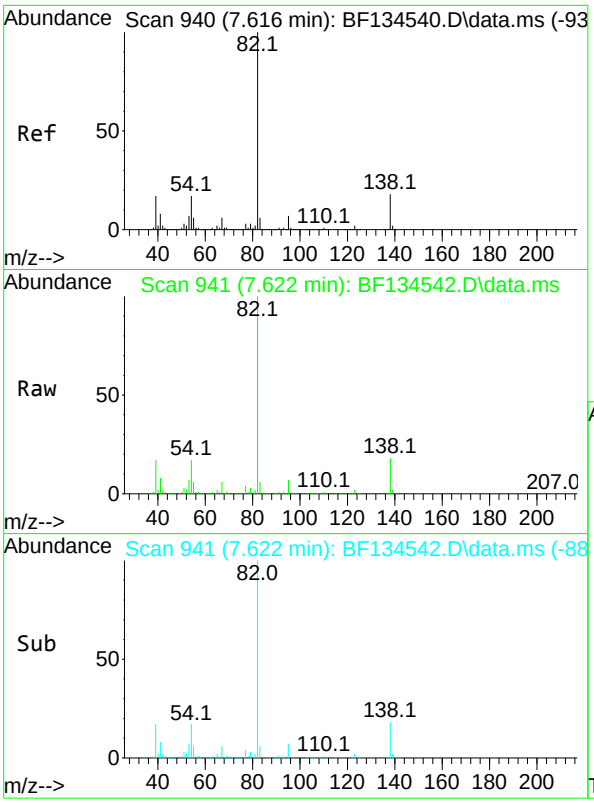


#24
Nitrobenzene
Concen: 62.376 ng
RT: 7.381 min Scan# 900
Delta R.T. 0.000 min
Lab File: BF134542.D
Acq: 01 Aug 2023 11:15

Tgt Ion: 77 Resp: 882568

Ion	Ratio	Lower	Upper
77	100		
123	45.8	35.5	53.3
65	14.5	11.9	17.9

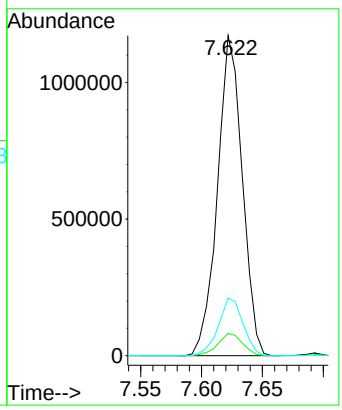




#25
Isophorone
Concen: 58.231 ng
RT: 7.622 min Scan# 94
Delta R.T. 0.006 min
Lab File: BF134542.D
Acq: 01 Aug 2023 11:15

Tgt Ion: 82 Resp: 166340

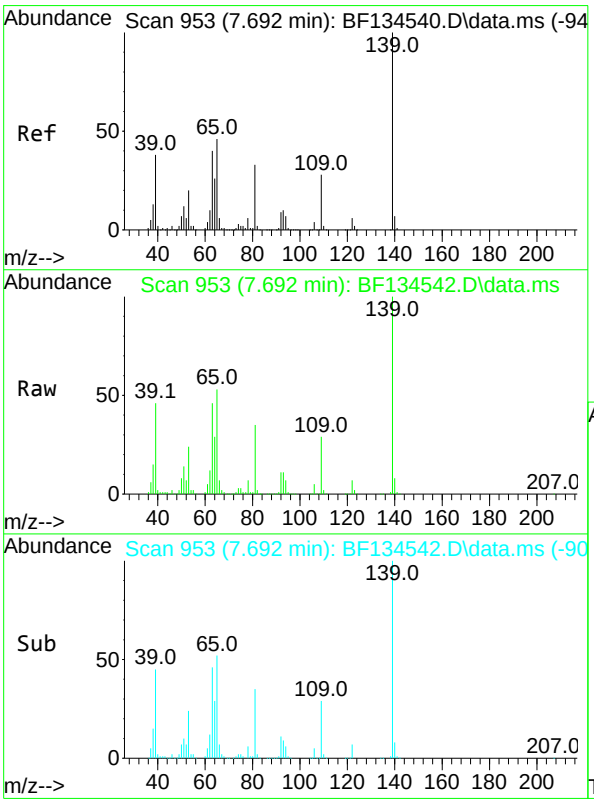
Ion	Ratio	Lower	Upper
82	100		
95	6.9	6.0	9.0
138	18.0	14.6	22.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

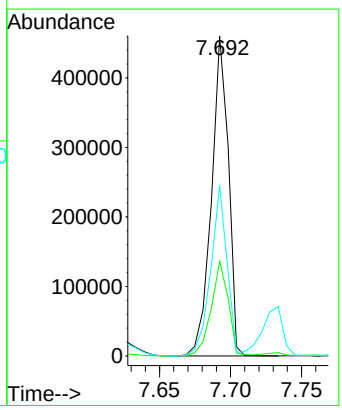
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

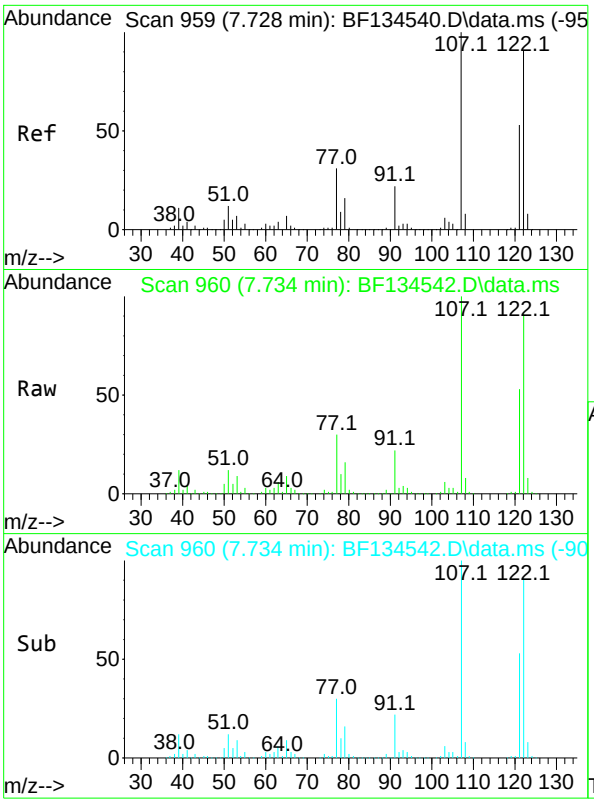


#26
2-Nitrophenol
Concen: 61.667 ng
RT: 7.692 min Scan# 953
Delta R.T. 0.000 min
Lab File: BF134542.D
Acq: 01 Aug 2023 11:15

Tgt Ion:139 Resp: 380418

Ion	Ratio	Lower	Upper
139	100		
109	29.5	29.8	44.6#
65	53.3	45.4	68.2

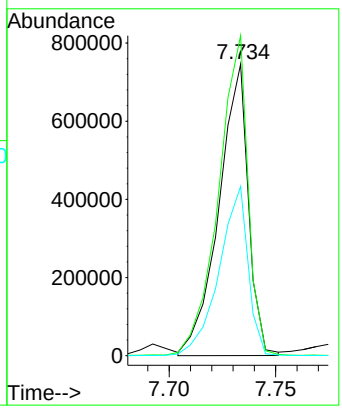




#27
2,4-Dimethylphenol
Concen: 56.313 ng
RT: 7.734 min Scan# 9
Delta R.T. 0.006 min
Lab File: BF134542.D
Acq: 01 Aug 2023 11:15

Tgt Ion:122 Resp: 71776

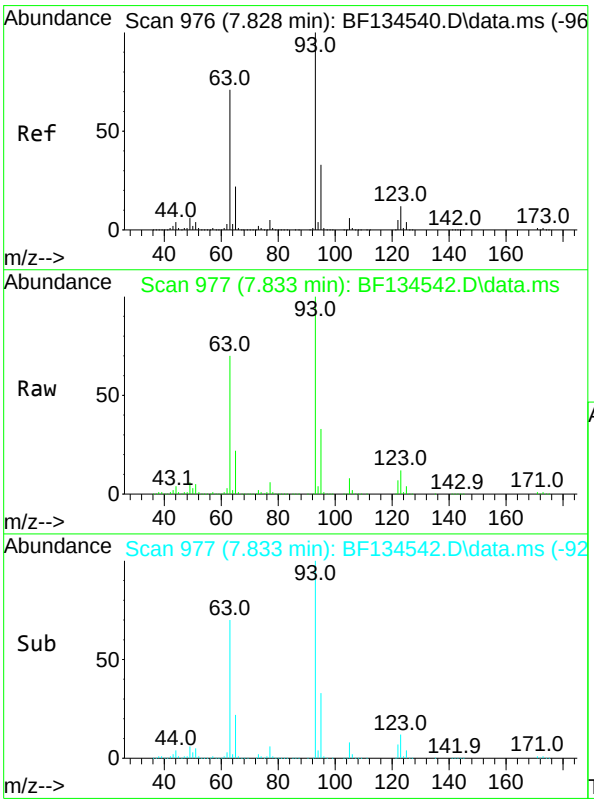
Ion	Ratio	Lower	Upper
122	100		
107	109.8	106.7	160.1
121	58.1	49.0	73.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

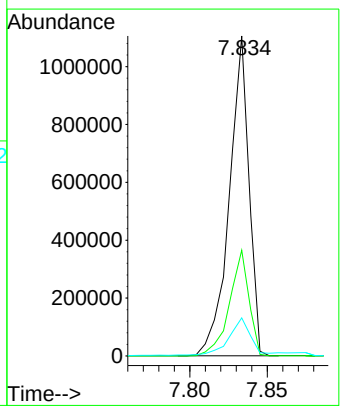
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

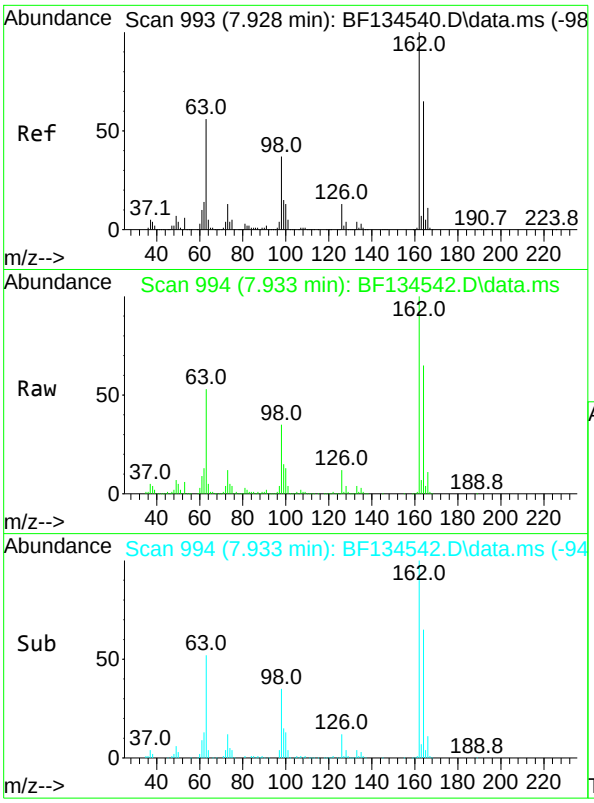


#28
bis(2-Chloroethoxy)methane
Concen: 57.086 ng
RT: 7.833 min Scan# 977
Delta R.T. 0.006 min
Lab File: BF134542.D
Acq: 01 Aug 2023 11:15

Tgt Ion: 93 Resp: 975481

Ion	Ratio	Lower	Upper
93	100		
95	33.0	26.5	39.7
123	11.9	9.6	14.4

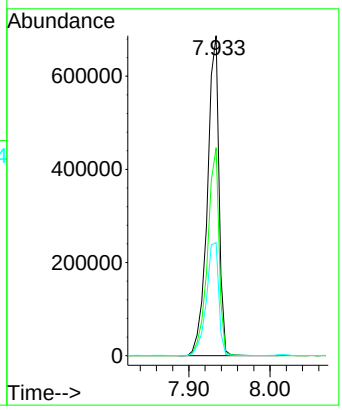




#29
2,4-Dichlorophenol
Concen: 58.853 ng
RT: 7.933 min Scan# 9
Delta R.T. 0.006 min
Lab File: BF134542.D
Acq: 01 Aug 2023 11:15

Tgt Ion:162 Resp: 68082

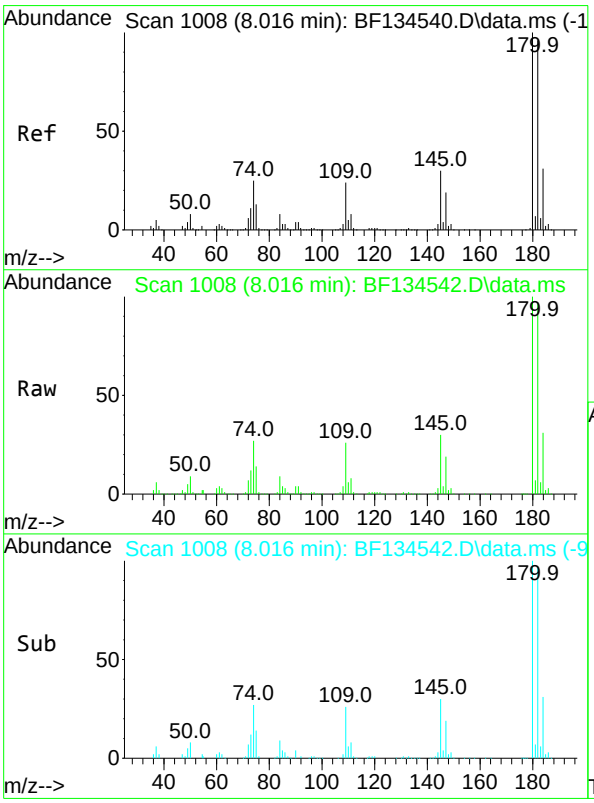
Ion	Ratio	Lower	Upper
162	100		
164	65.0	42.2	82.2
98	35.3	15.5	55.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

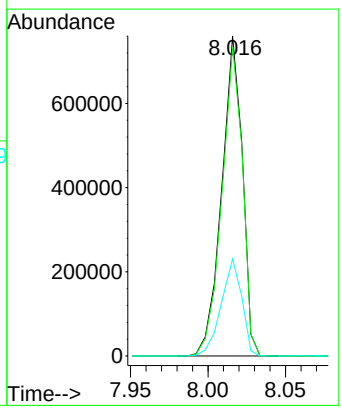
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

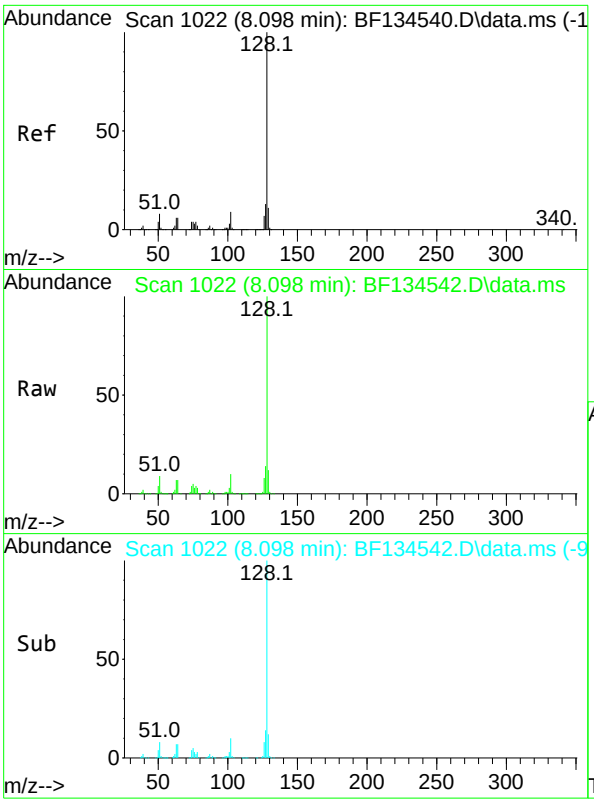


#30
1,2,4-Trichlorobenzene
Concen: 57.134 ng
RT: 8.016 min Scan# 1008
Delta R.T. 0.000 min
Lab File: BF134542.D
Acq: 01 Aug 2023 11:15

Tgt Ion:180 Resp: 704798

Ion	Ratio	Lower	Upper
180	100		
182	96.6	75.0	112.6
145	30.4	25.5	38.3

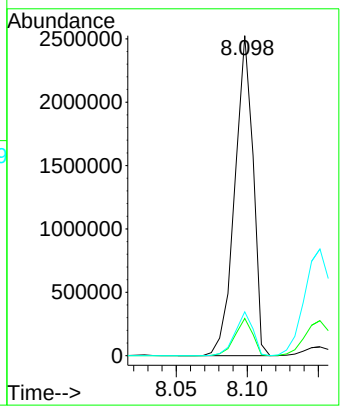




#31
Naphthalene
Concen: 54.841 ng
RT: 8.098 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134542.D
Acq: 01 Aug 2023 11:15

Tgt Ion:128 Resp: 225584

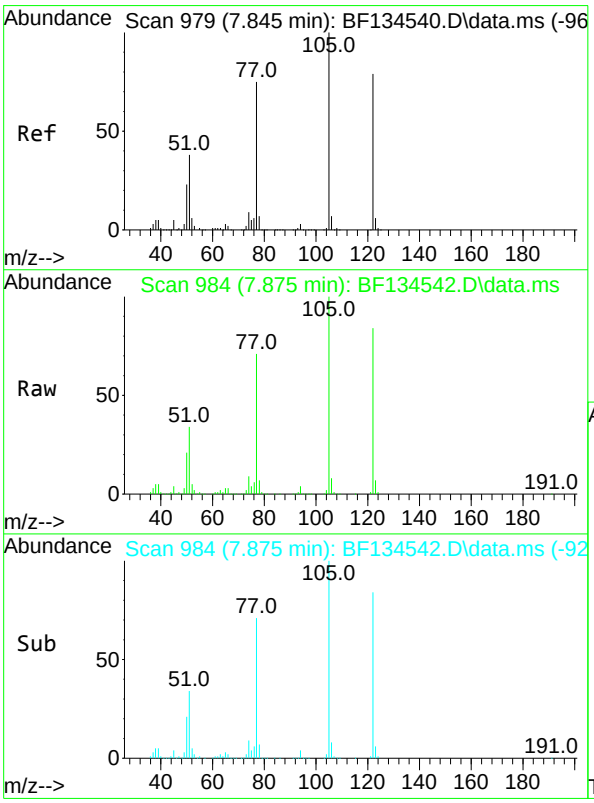
Ion	Ratio	Lower	Upper
128	100		
129	11.7	8.4	12.6
127	13.7	10.7	16.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

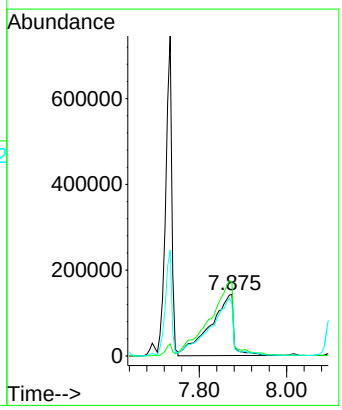
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

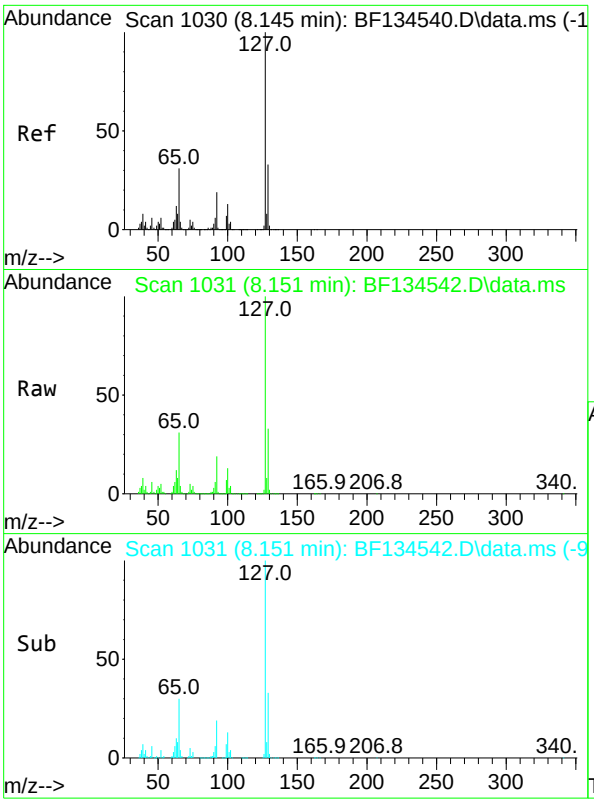


#32
Benzoic acid
Concen: 61.866 ng
RT: 7.875 min Scan# 984
Delta R.T. 0.030 min
Lab File: BF134542.D
Acq: 01 Aug 2023 11:15

Tgt Ion:122 Resp: 536975

Ion	Ratio	Lower	Upper
122	100		
105	119.5	87.5	127.5
77	84.9	71.4	111.4

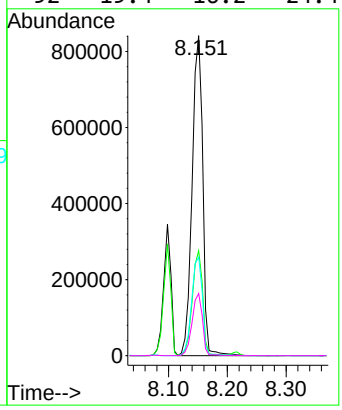




#33
4-Chloroaniline
Concen: 57.902 ng
RT: 8.151 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF134542.D
Acq: 01 Aug 2023 11:15

Tgt Ion:127 Resp: 106124

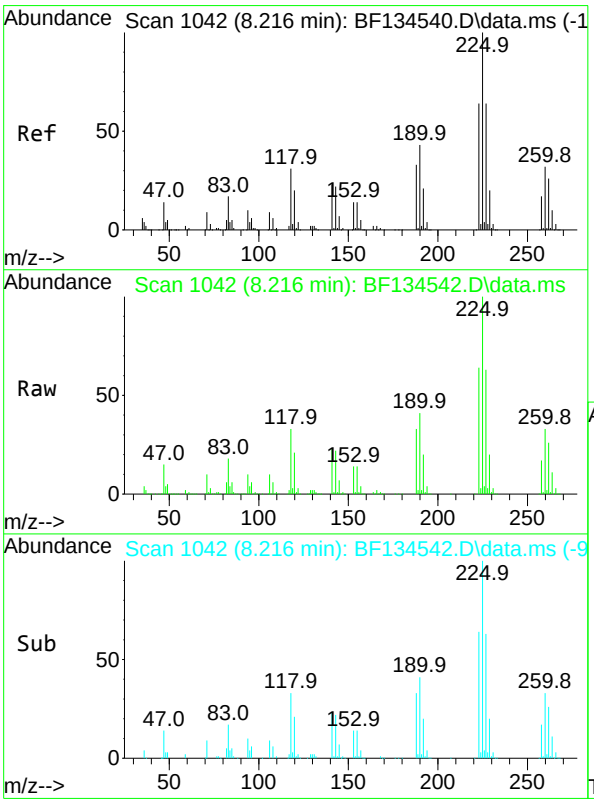
Ion	Ratio	Lower	Upper
127	100		
129	32.8	25.6	38.4
65	30.8	25.4	38.0
92	19.4	16.2	24.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

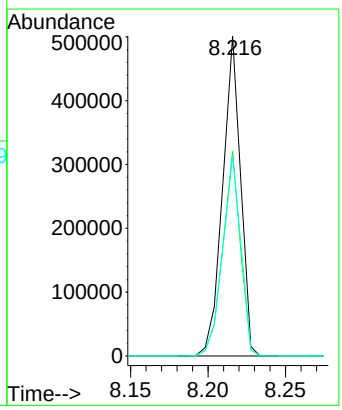
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

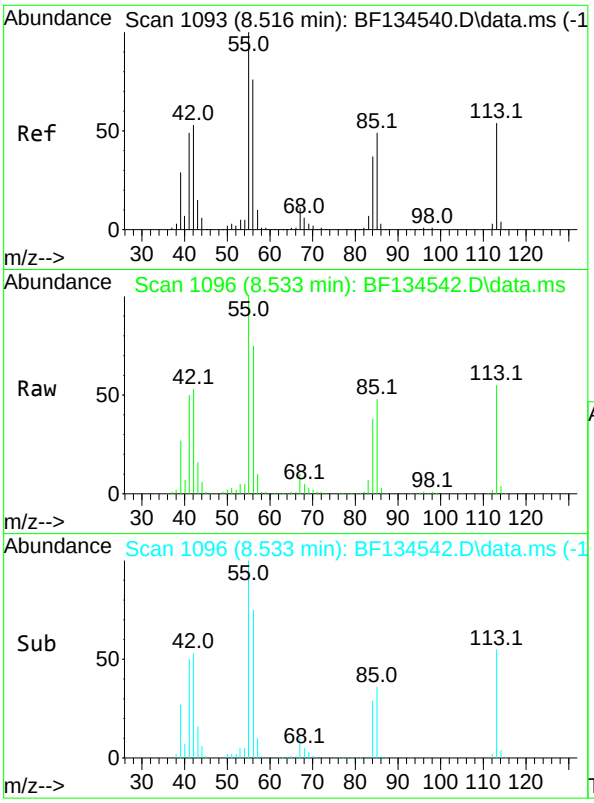


#34
Hexachlorobutadiene
Concen: 56.717 ng
RT: 8.216 min Scan# 1042
Delta R.T. 0.000 min
Lab File: BF134542.D
Acq: 01 Aug 2023 11:15

Tgt Ion:225 Resp: 403574

Ion	Ratio	Lower	Upper
225	100		
223	64.0	48.2	72.4
227	62.7	48.5	72.7

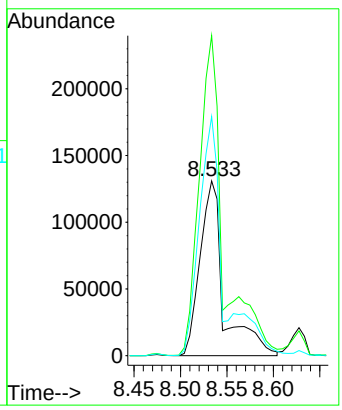




#35
Caprolactam
Concen: 62.466 ng m
RT: 8.533 min Scan# 1
Delta R.T. 0.018 min
Lab File: BF134542.D
Acq: 01 Aug 2023 11:15

Tgt Ion:113 Resp: 23321

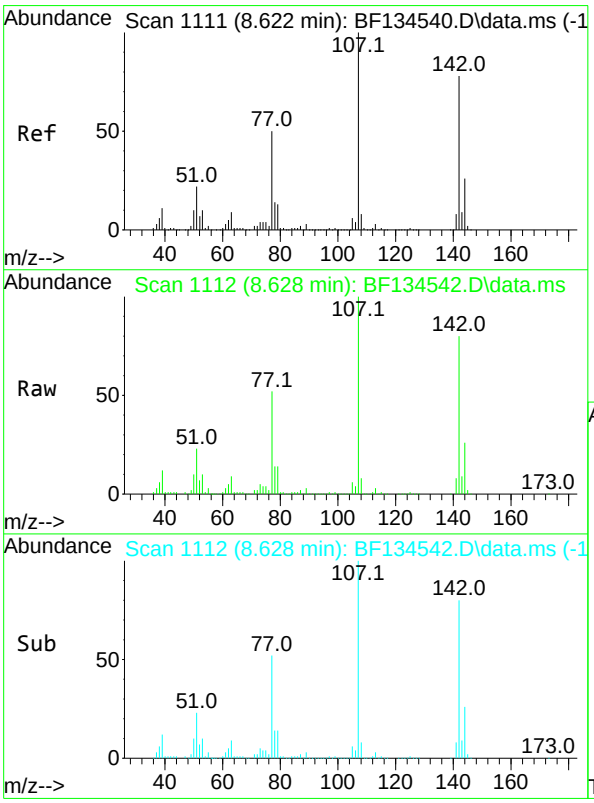
Ion	Ratio	Lower	Upper
113	100		
55	183.2	161.5	201.5
56	136.8	117.8	157.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

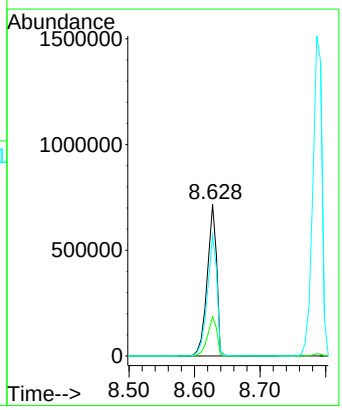
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

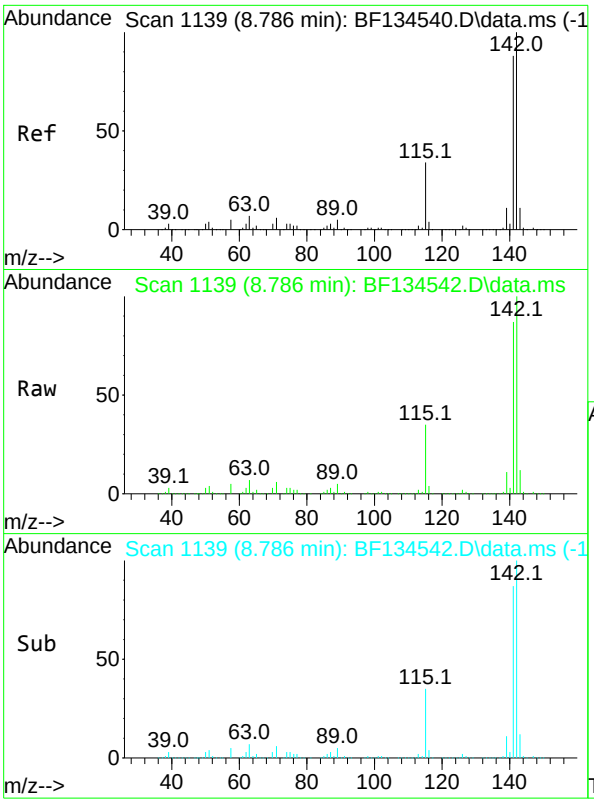


#36
4-Chloro-3-methylphenol
Concen: 58.641 ng
RT: 8.628 min Scan# 1112
Delta R.T. 0.006 min
Lab File: BF134542.D
Acq: 01 Aug 2023 11:15

Tgt Ion:107 Resp: 718417

Ion	Ratio	Lower	Upper
107	100		
144	25.9	19.6	29.4
142	79.6	57.7	86.5

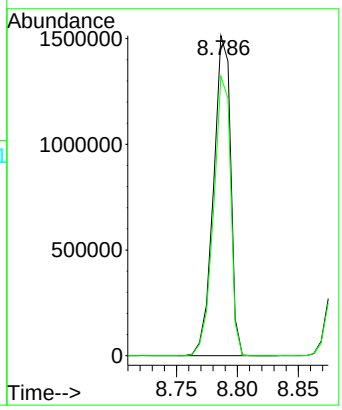




#37
2-Methylnaphthalene
Concen: 54.404 ng
RT: 8.786 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134542.D
Acq: 01 Aug 2023 11:15

Tgt Ion:142 Resp: 148334

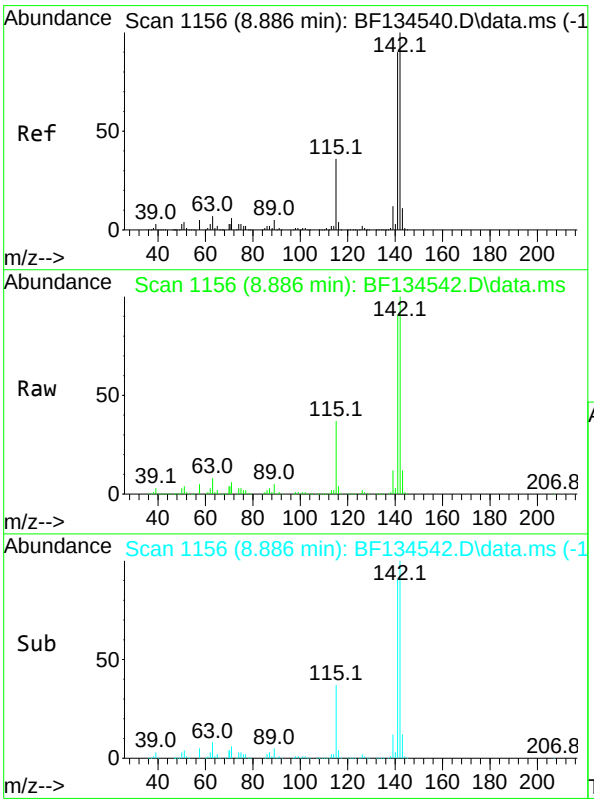
Ion	Ratio	Lower	Upper
142	100		
141	87.3	70.8	106.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

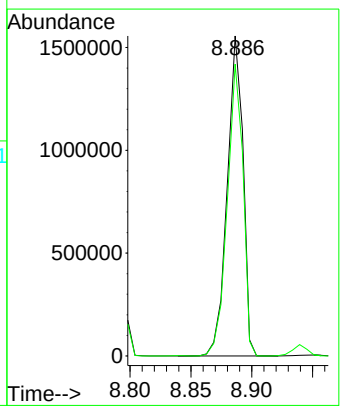
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

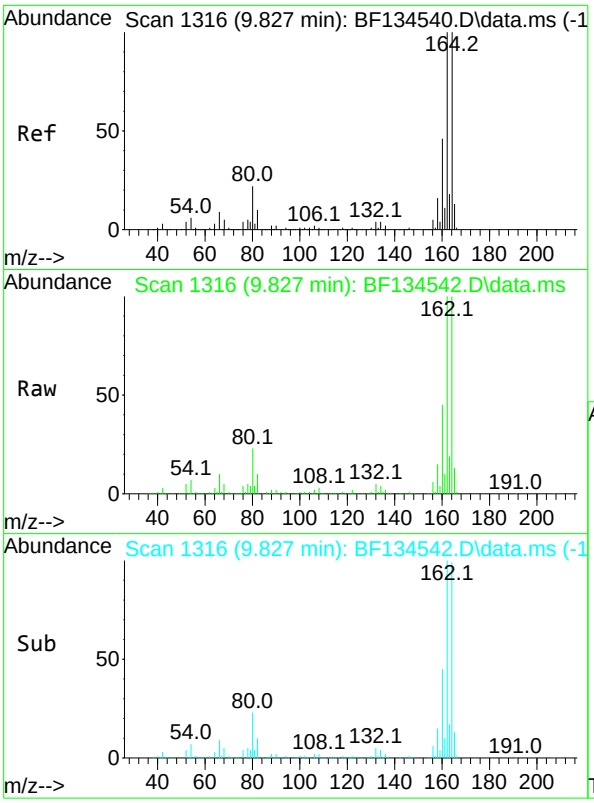


#38
1-Methylnaphthalene
Concen: 55.315 ng
RT: 8.886 min Scan# 1156
Delta R.T. 0.000 min
Lab File: BF134542.D
Acq: 01 Aug 2023 11:15

Tgt Ion:142 Resp: 1402442

Ion	Ratio	Lower	Upper
142	100		
141	91.2	71.4	107.2

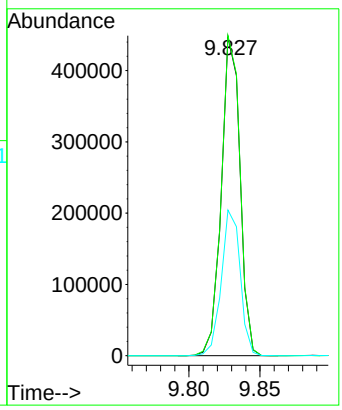




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.827 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134542.D
Acq: 01 Aug 2023 11:15

Tgt Ion:164 Resp: 40823

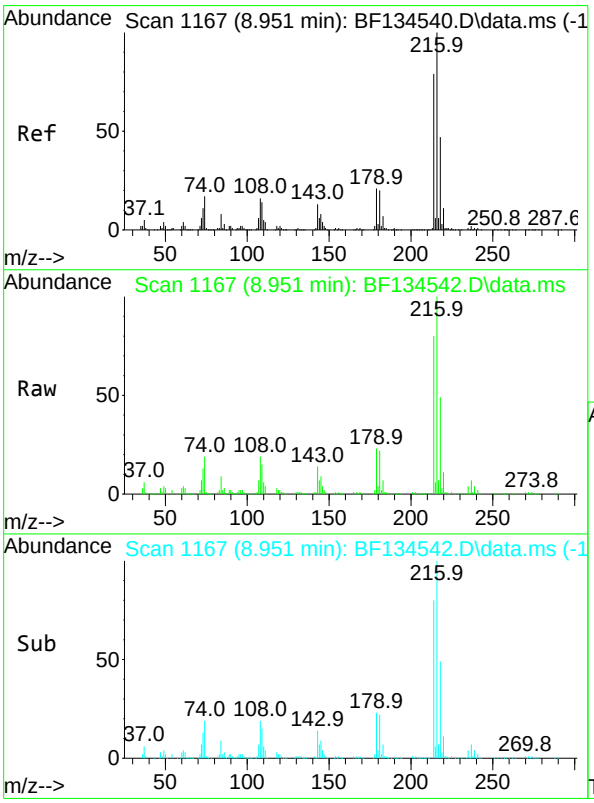
Ion	Ratio	Lower	Upper
164	100		
162	100.4	82.6	123.8
160	45.7	37.2	55.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

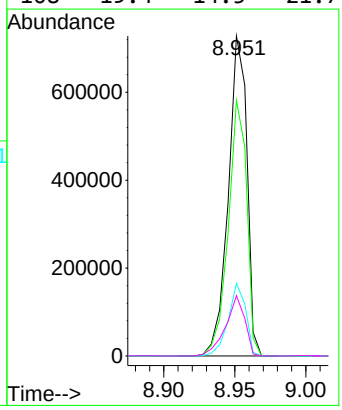
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

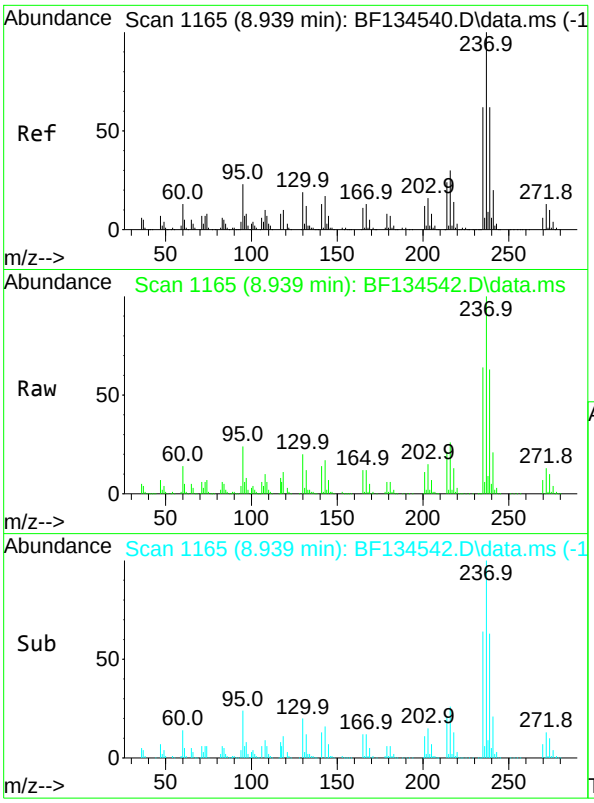


#40
1,2,4,5-Tetrachlorobenzene
Concen: 55.893 ng
RT: 8.951 min Scan# 1167
Delta R.T. 0.000 min
Lab File: BF134542.D
Acq: 01 Aug 2023 11:15

Tgt Ion:216 Resp: 663509

Ion	Ratio	Lower	Upper
216	100		
214	79.1	62.3	93.5
179	21.5	17.4	26.0
108	19.4	14.5	21.7





#41
Hexachlorocyclopentadiene
Concen: 61.328 ng
RT: 8.939 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134542.D
Acq: 01 Aug 2023 11:15

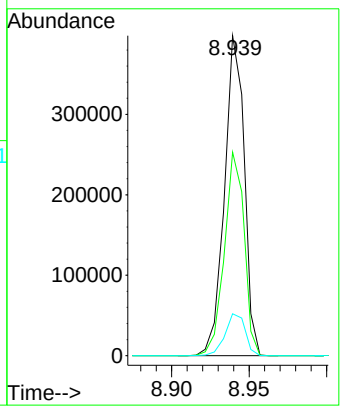
Tgt Ion:237 Resp: 35403

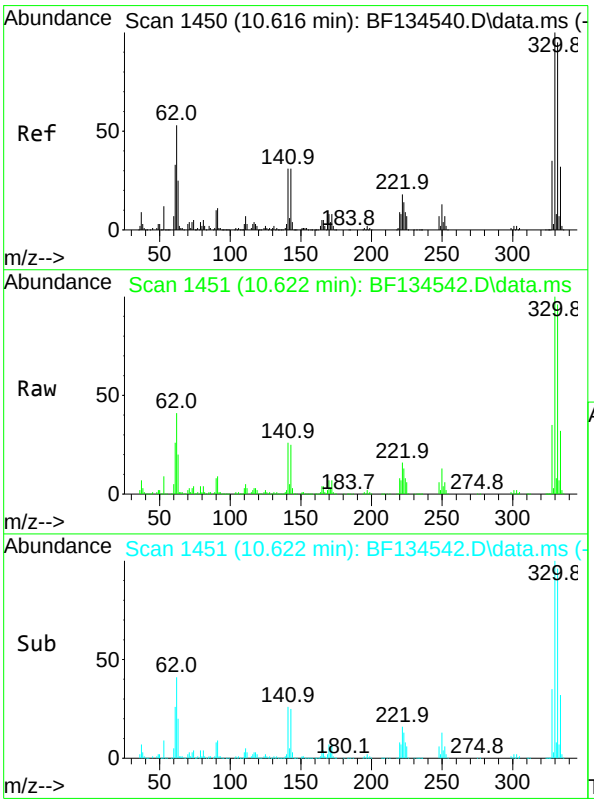
Ion	Ratio	Lower	Upper
237	100		
235	63.6	37.0	77.0
272	13.1	0.0	32.7

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

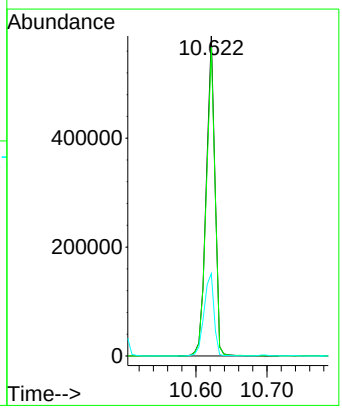


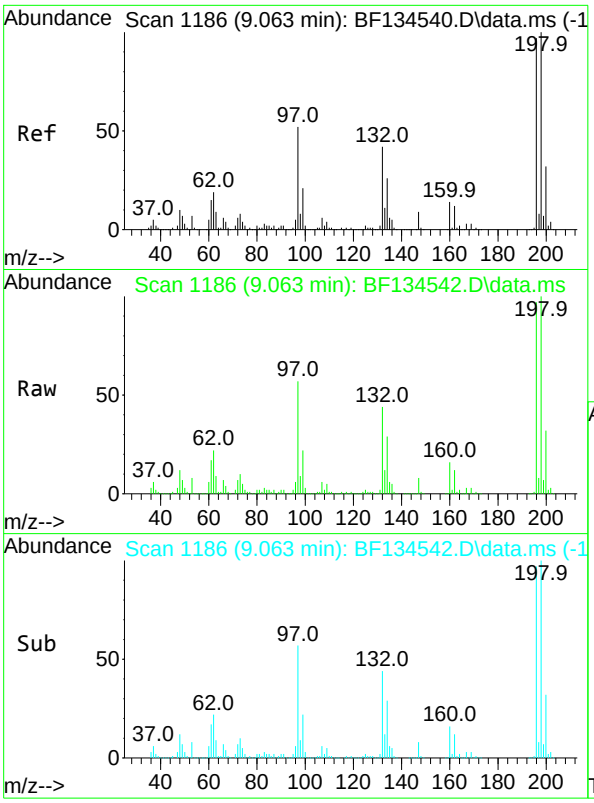


#42
2,4,6-Tribromophenol
Concen: 121.241 ng
RT: 10.622 min Scan# 1451
Delta R.T. 0.006 min
Lab File: BF134542.D
Acq: 01 Aug 2023 11:15

Tgt Ion:330 Resp: 504547

Ion	Ratio	Lower	Upper
330	100		
332	97.0	78.8	118.2
141	29.5	25.4	38.2

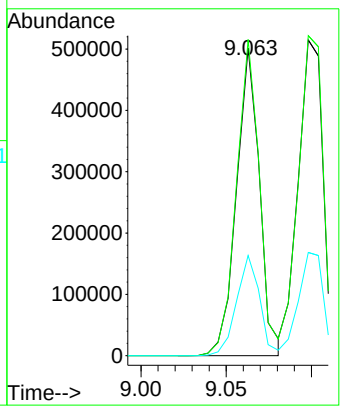




#43
2,4,6-Trichlorophenol
Concen: 60.627 ng
RT: 9.063 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF134542.D
Acq: 01 Aug 2023 11:15

Tgt Ion:196 Resp: 47101

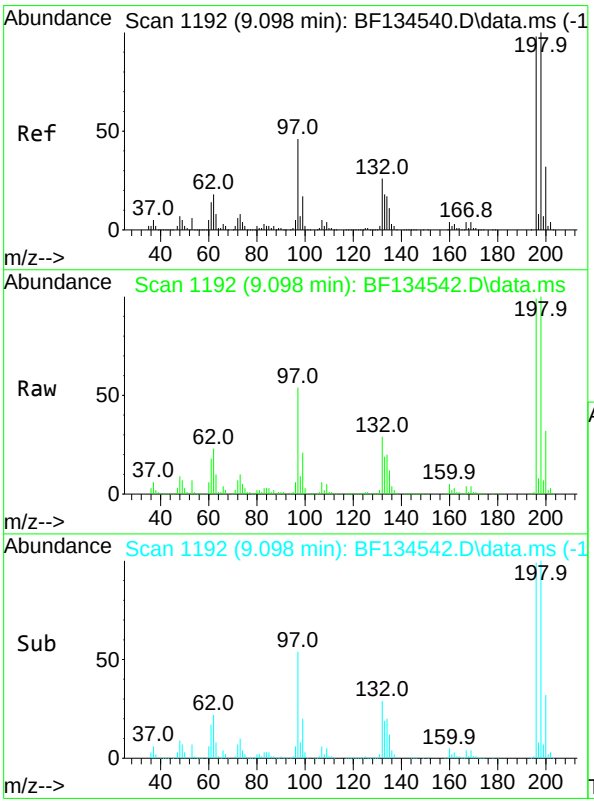
Ion	Ratio	Lower	Upper
196	100		
198	102.8	77.4	116.2
200	32.6	25.4	38.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

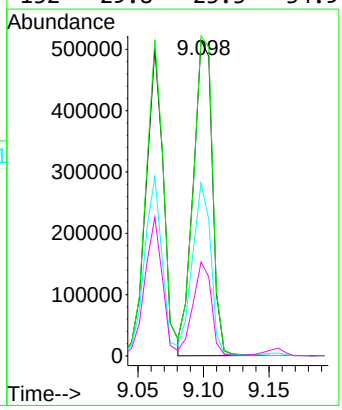
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

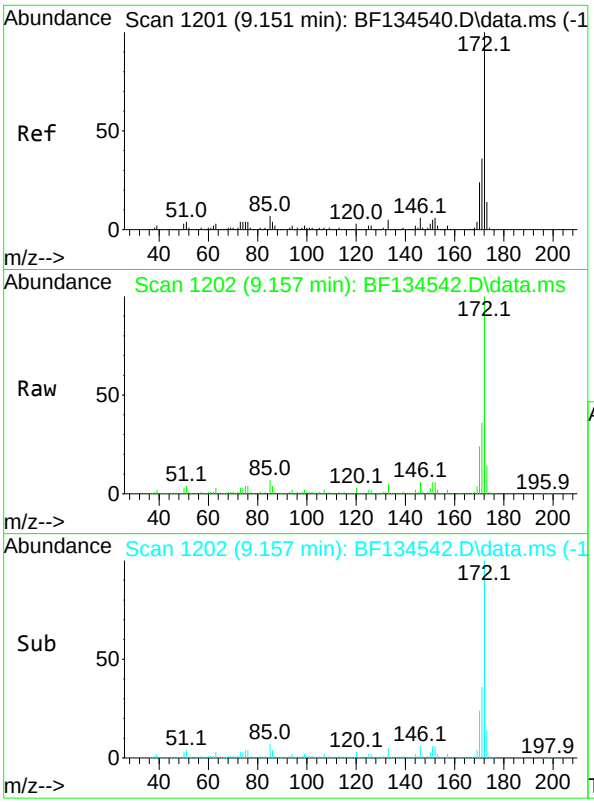


#44
2,4,5-Trichlorophenol
Concen: 59.086 ng
RT: 9.098 min Scan# 1192
Delta R.T. 0.000 min
Lab File: BF134542.D
Acq: 01 Aug 2023 11:15

Tgt Ion:196 Resp: 524645

Ion	Ratio	Lower	Upper
196	100		
198	101.3	73.0	109.4
97	54.8	40.8	61.2
132	29.8	23.3	34.9

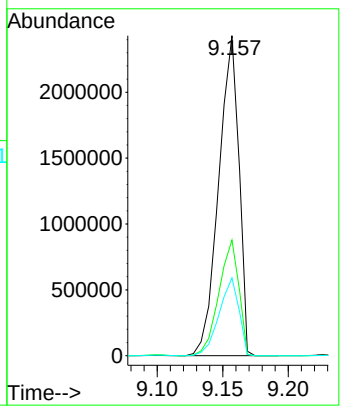




#45
2-Fluorobiphenyl
Concen: 105.827 ng
RT: 9.157 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF134542.D
Acq: 01 Aug 2023 11:15

Tgt Ion:172 Resp: 259830

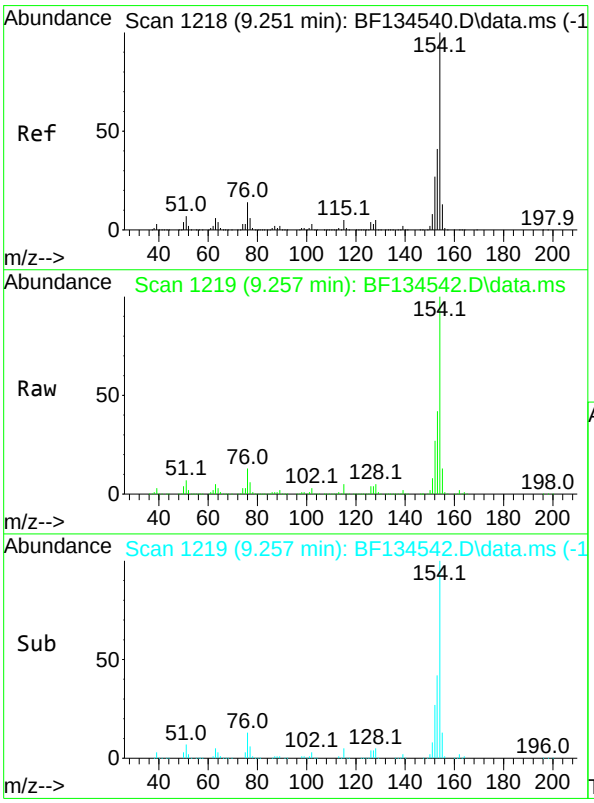
Ion	Ratio	Lower	Upper
172	100		
171	36.2	28.8	43.2
170	24.3	18.7	28.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

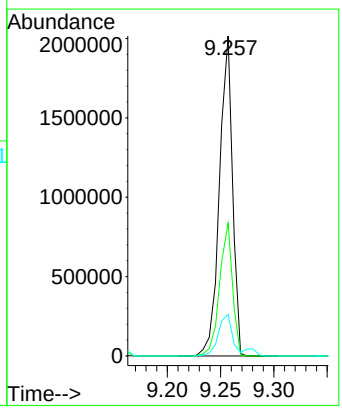
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

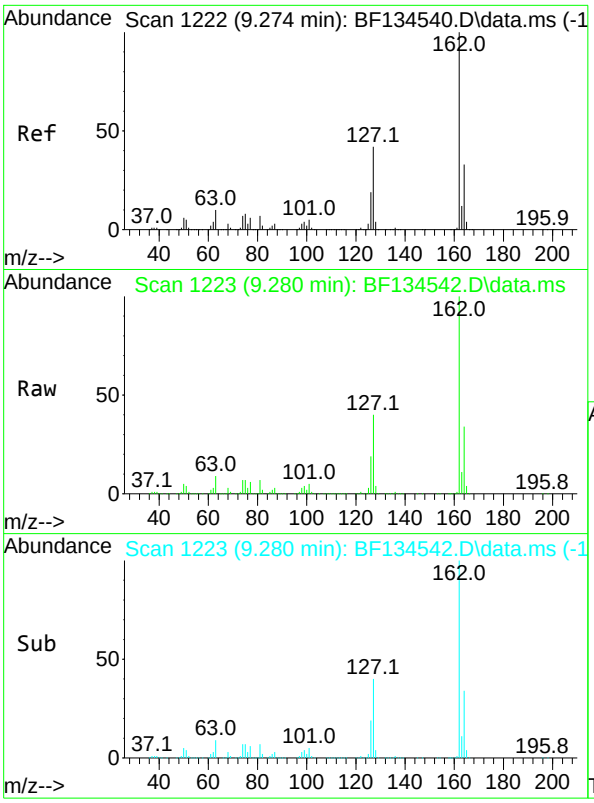


#46
1,1'-Biphenyl
Concen: 53.834 ng
RT: 9.257 min Scan# 1219
Delta R.T. 0.006 min
Lab File: BF134542.D
Acq: 01 Aug 2023 11:15

Tgt Ion:154 Resp: 1708966

Ion	Ratio	Lower	Upper
154	100		
153	41.5	20.8	60.8
76	13.0	0.0	30.2

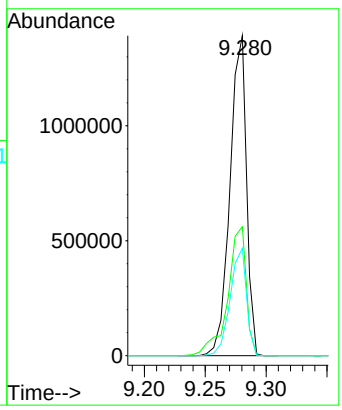




#47
2-Chloronaphthalene
Concen: 55.378 ng
RT: 9.280 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF134542.D
Acq: 01 Aug 2023 11:15

Tgt Ion:162 Resp: 131725

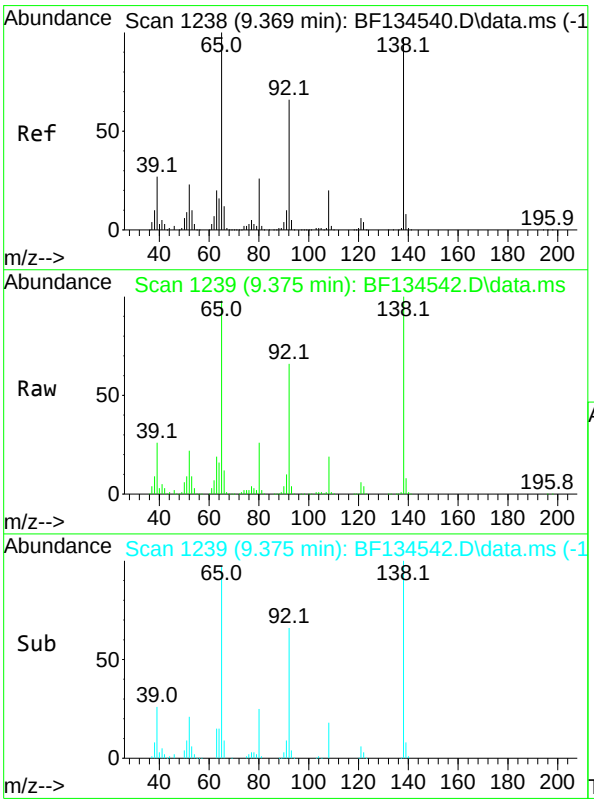
Ion	Ratio	Lower	Upper
162	100		
127	40.3	34.0	51.0
164	33.6	25.7	38.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

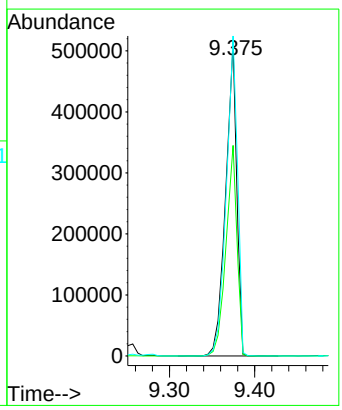
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

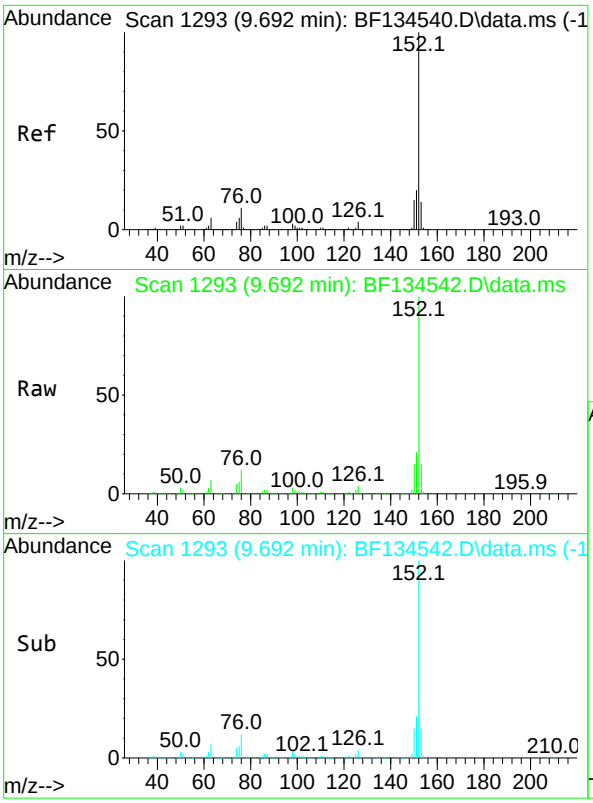


#48
2-Nitroaniline
Concen: 61.761 ng
RT: 9.375 min Scan# 1239
Delta R.T. 0.006 min
Lab File: BF134542.D
Acq: 01 Aug 2023 11:15

Tgt Ion: 65 Resp: 465217

Ion	Ratio	Lower	Upper
65	100		
92	67.2	50.7	76.1
138	102.0	78.2	117.4

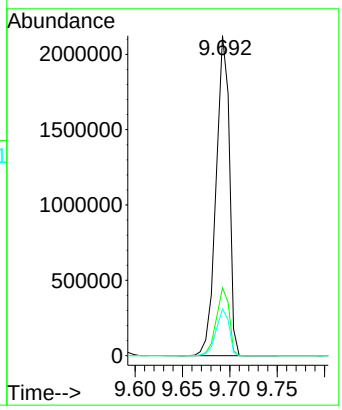




#49
Acenaphthylene
Concen: 55.323 ng
RT: 9.692 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134542.D
Acq: 01 Aug 2023 11:15

Tgt Ion:152 Resp: 206852

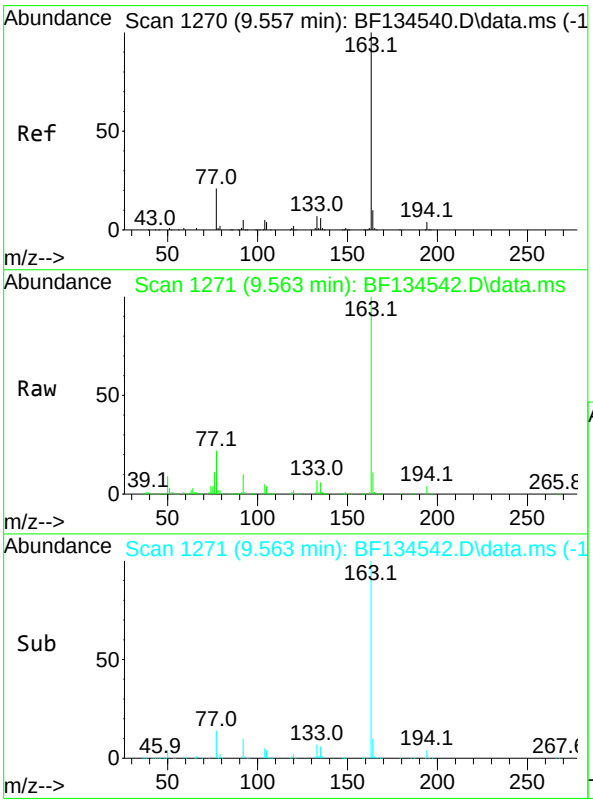
Ion	Ratio	Lower	Upper
152	100		
151	21.3	16.4	24.6
153	14.6	10.9	16.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

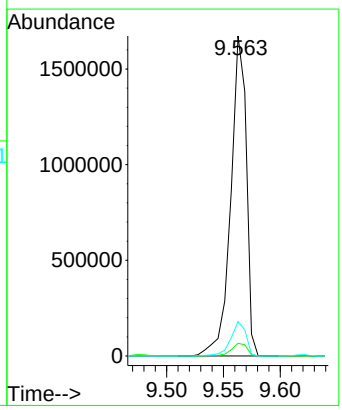
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

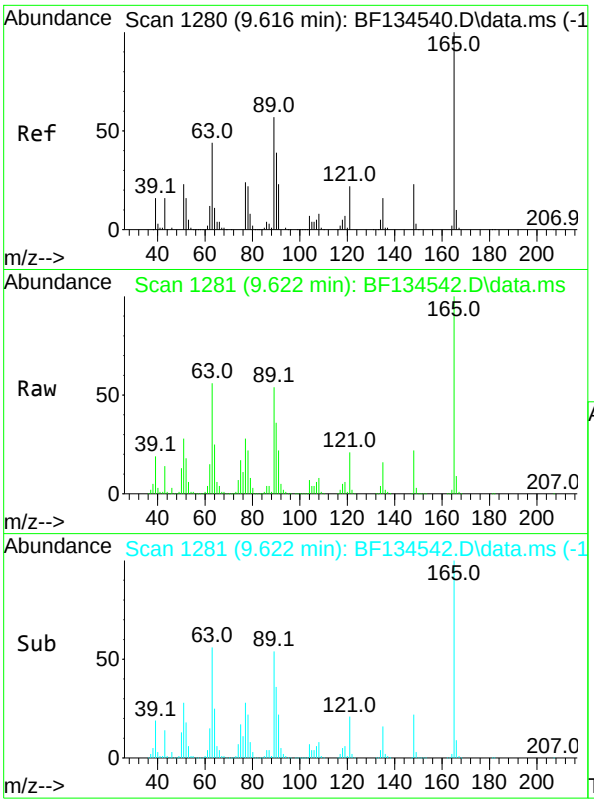


#50
Dimethylphthalate
Concen: 57.245 ng
RT: 9.563 min Scan# 1271
Delta R.T. 0.006 min
Lab File: BF134542.D
Acq: 01 Aug 2023 11:15

Tgt Ion:163 Resp: 1592768

Ion	Ratio	Lower	Upper
163	100		
194	4.0	3.3	4.9
164	10.8	7.5	11.3

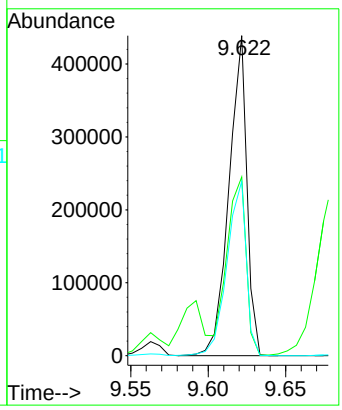




#51
2,6-Dinitrotoluene
Concen: 61.399 ng
RT: 9.622 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF134542.D
Acq: 01 Aug 2023 11:15

Tgt Ion:165 Resp: 35421

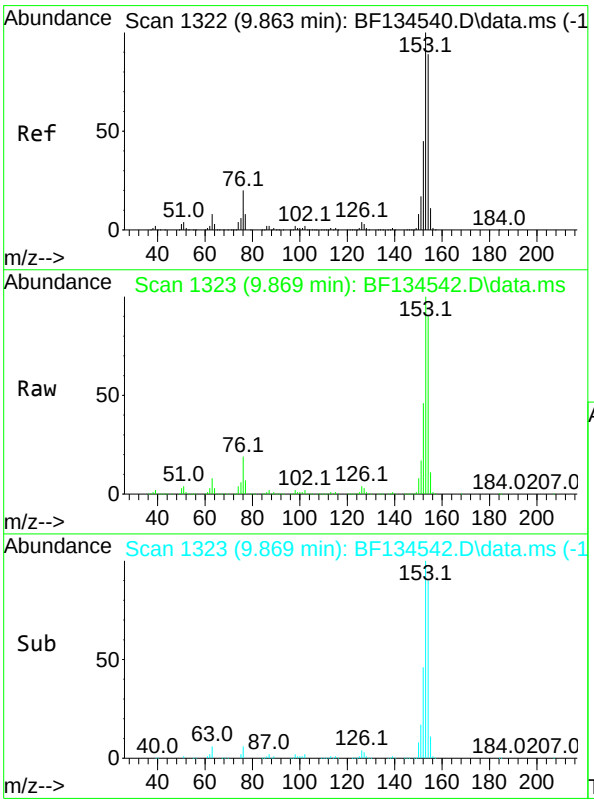
Ion	Ratio	Lower	Upper
165	100		
63	55.9	57.8	86.6
89	54.5	51.8	77.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

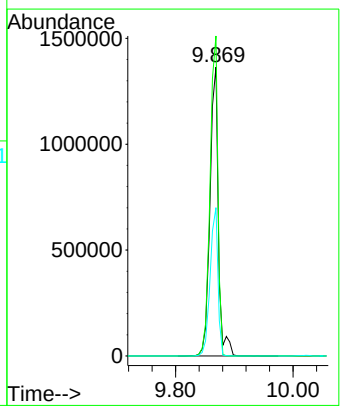
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

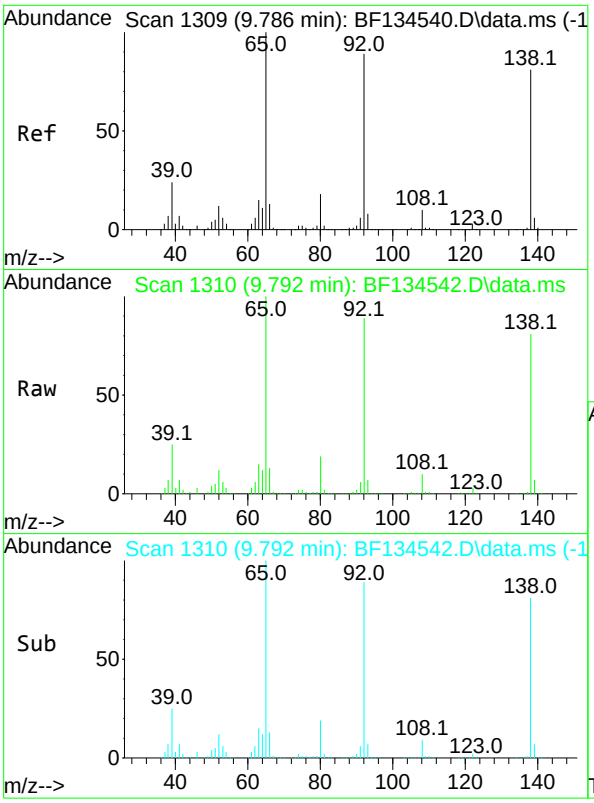


#52
Acenaphthene
Concen: 55.915 ng
RT: 9.869 min Scan# 1323
Delta R.T. 0.006 min
Lab File: BF134542.D
Acq: 01 Aug 2023 11:15

Tgt Ion:154 Resp: 1354858

Ion	Ratio	Lower	Upper
154	100		
153	110.8	90.0	135.0
152	51.4	42.4	63.6

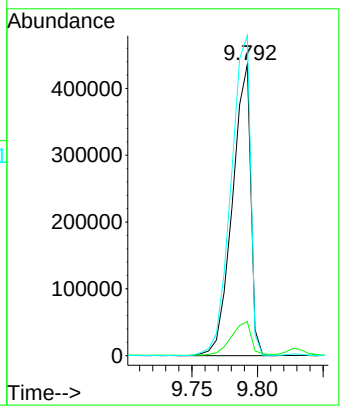




#53
3-Nitroaniline
Concen: 68.505 ng
RT: 9.792 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF134542.D
Acq: 01 Aug 2023 11:15

Tgt Ion:138 Resp: 42484

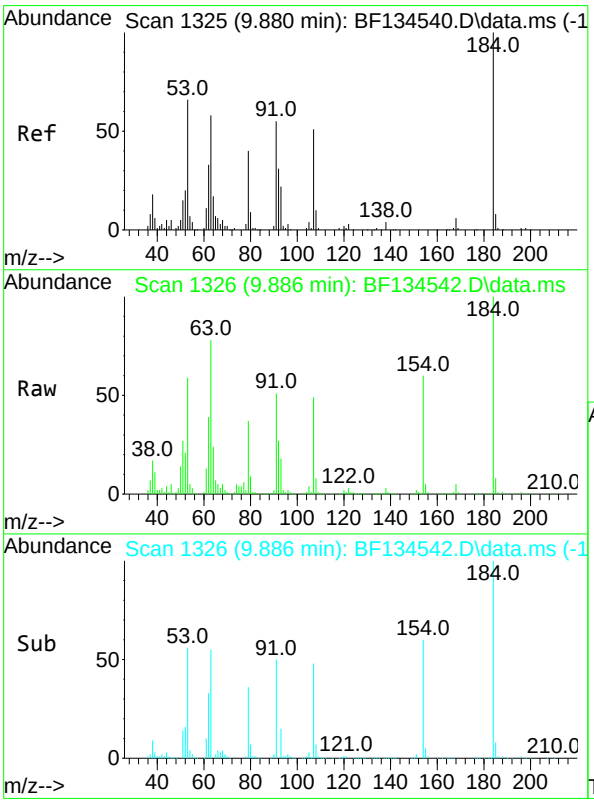
Ion	Ratio	Lower	Upper
138	100		
108	11.7	9.3	13.9
92	109.9	86.6	129.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

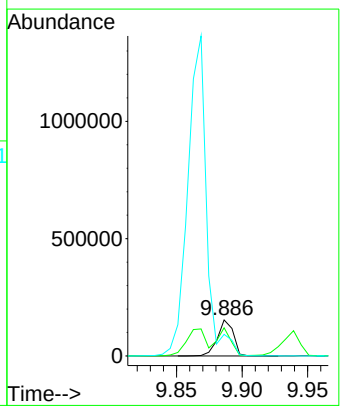
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

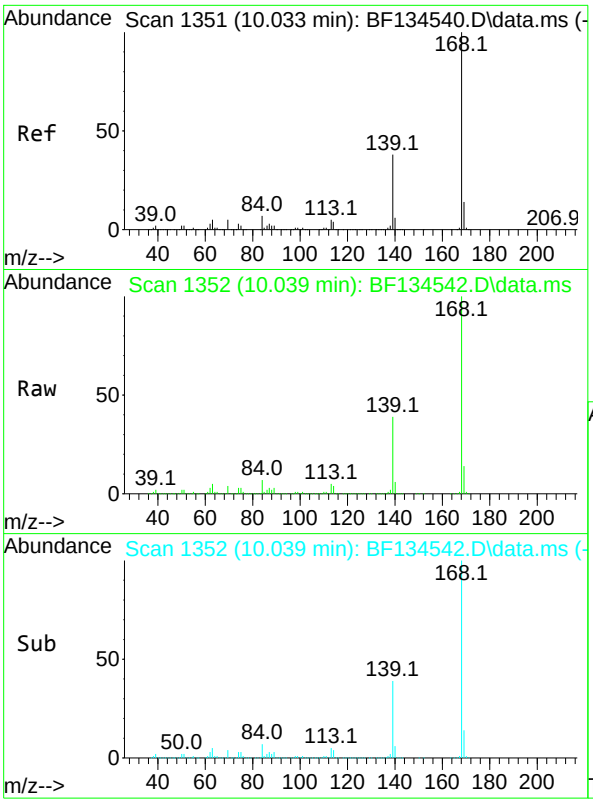


#54
2,4-Dinitrophenol
Concen: 62.874 ng
RT: 9.886 min Scan# 1326
Delta R.T. 0.006 min
Lab File: BF134542.D
Acq: 01 Aug 2023 11:15

Tgt Ion:184 Resp: 128437

Ion	Ratio	Lower	Upper
184	100		
63	78.1	57.1	85.7
154	60.0	59.1	88.7

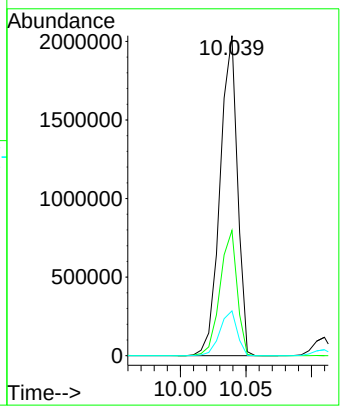




#55
Dibenzofuran
Concen: 54.381 ng
RT: 10.039 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF134542.D
Acq: 01 Aug 2023 11:15

Tgt Ion:168 Resp: 187580

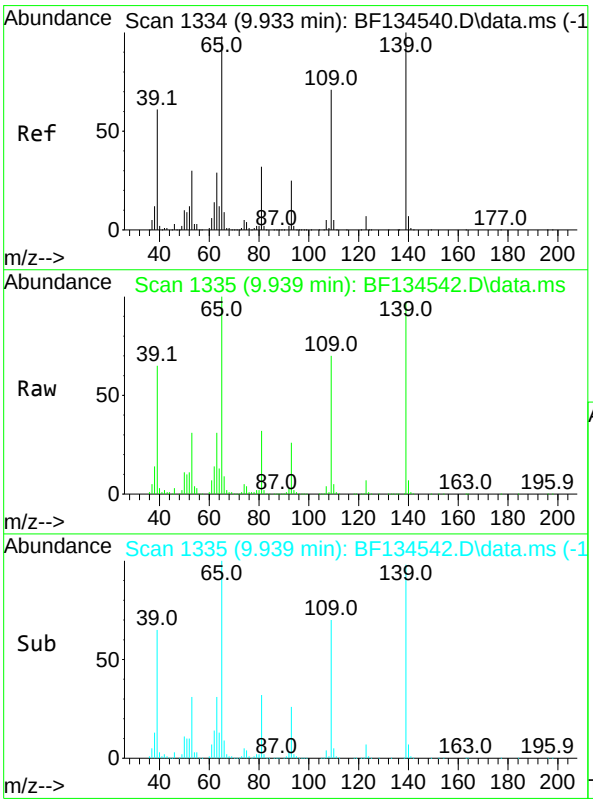
Ion	Ratio	Lower	Upper
168	100		
139	39.1	33.4	50.2
169	14.0	10.6	15.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

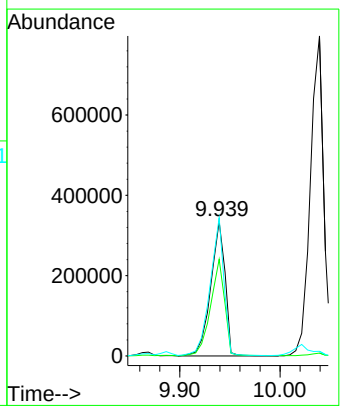
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

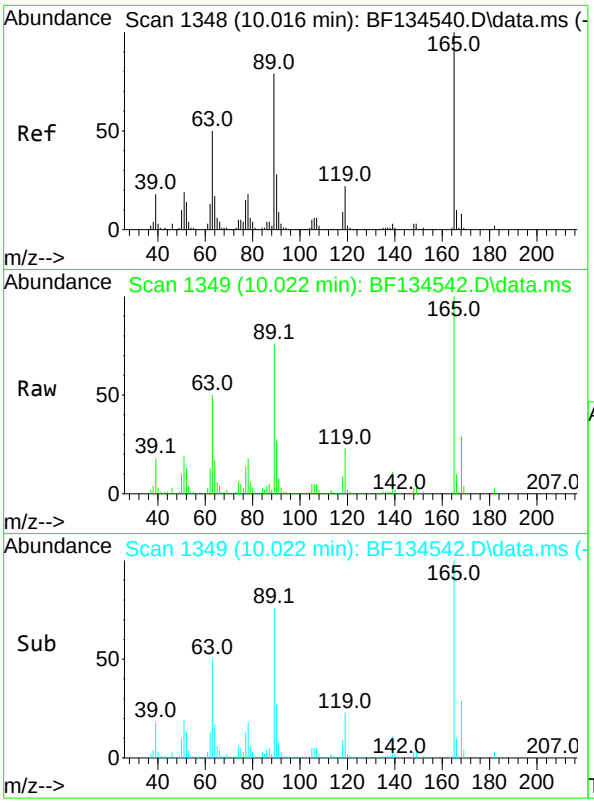


#56
4-Nitrophenol
Concen: 66.002 ng
RT: 9.939 min Scan# 1335
Delta R.T. 0.006 min
Lab File: BF134542.D
Acq: 01 Aug 2023 11:15

Tgt Ion:139 Resp: 334775

Ion	Ratio	Lower	Upper
139	100		
109	71.8	76.9	116.9#
65	102.7	98.5	138.5

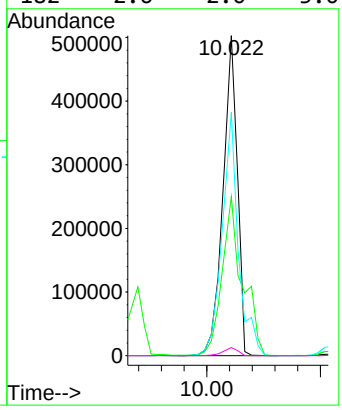




#57
2,4-Dinitrotoluene
Concen: 63.306 ng
RT: 10.022 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF134542.D
Acq: 01 Aug 2023 11:15

Tgt Ion:165 Resp: 44256

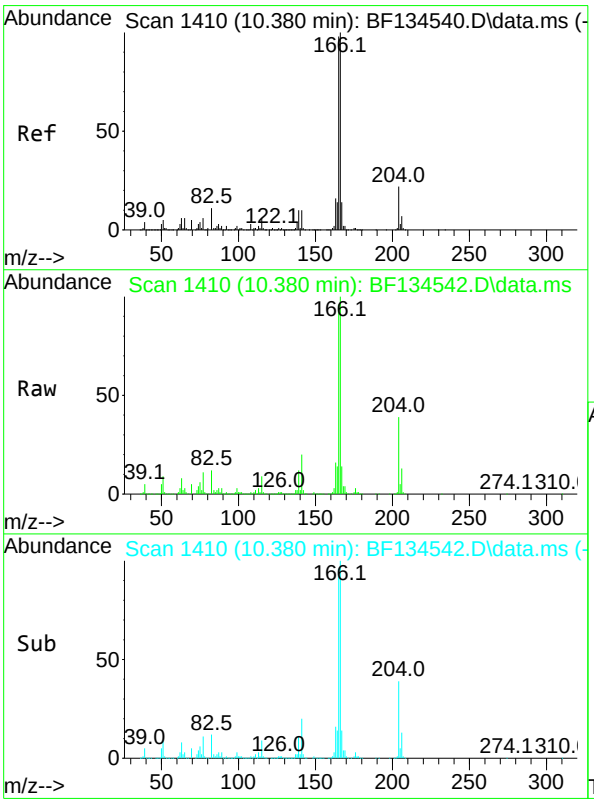
Ion	Ratio	Lower	Upper
165	100		
63	49.7	48.9	73.3
89	76.0	61.7	92.5
182	2.6	2.0	3.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

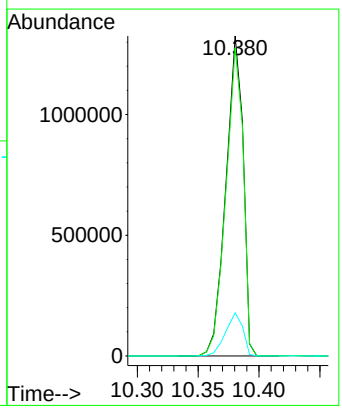
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

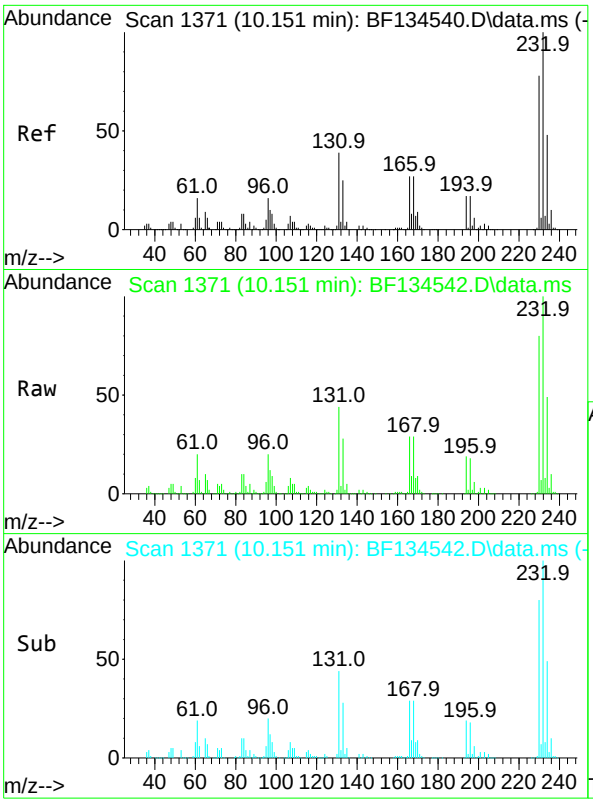


#58
Fluorene
Concen: 51.947 ng
RT: 10.380 min Scan# 1410
Delta R.T. 0.000 min
Lab File: BF134542.D
Acq: 01 Aug 2023 11:15

Tgt Ion:166 Resp: 1305138

Ion	Ratio	Lower	Upper
166	100		
165	96.3	74.5	111.7
167	13.5	10.6	16.0

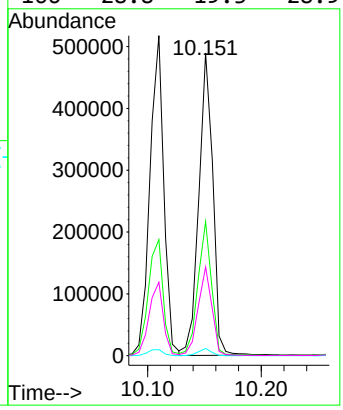




#59
2,3,4,6-Tetrachlorophenol
Concen: 59.593 ng
RT: 10.151 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134542.D
Acq: 01 Aug 2023 11:15

Tgt Ion:232 Resp: 41933

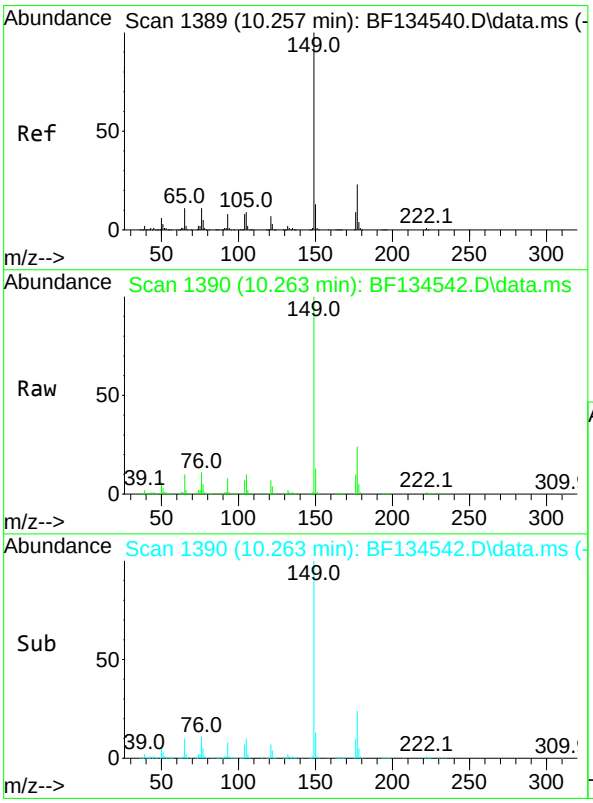
Ion	Ratio	Lower	Upper
232	100		
131	43.2	33.4	50.0
130	2.2	1.8	2.6
166	28.8	19.3	28.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

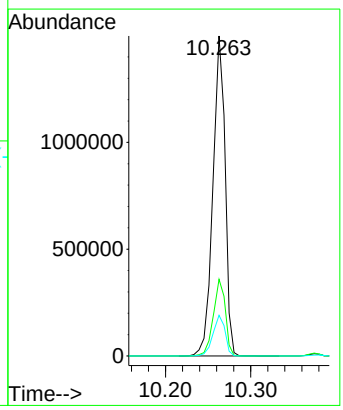
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

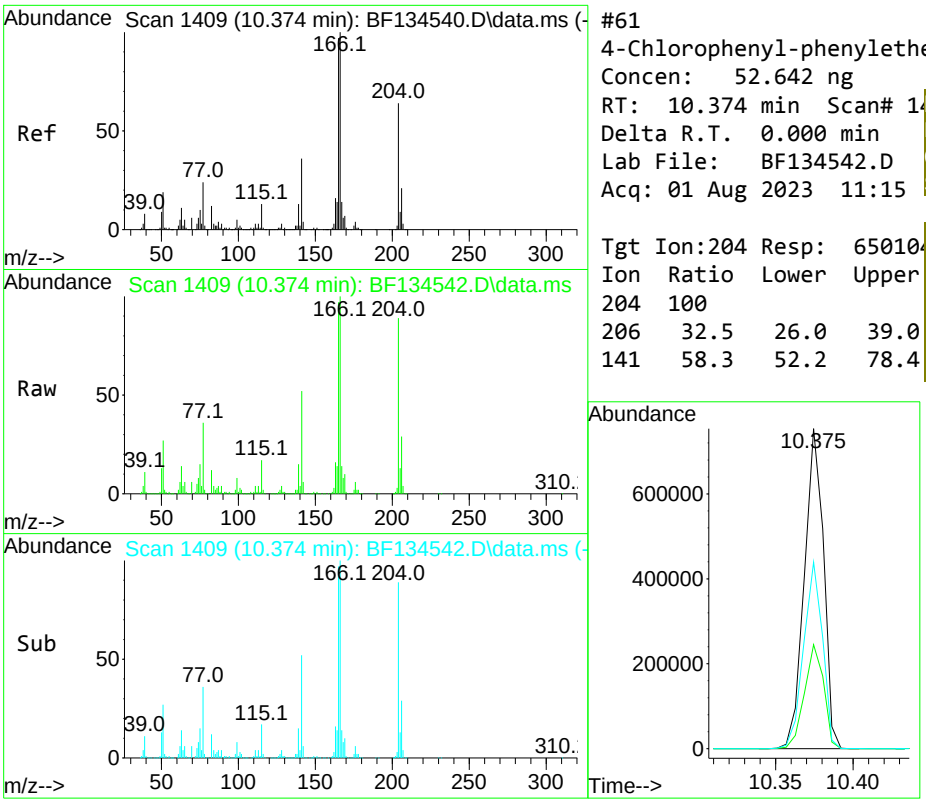


#60
Diethylphthalate
Concen: 56.677 ng
RT: 10.263 min Scan# 1390
Delta R.T. 0.006 min
Lab File: BF134542.D
Acq: 01 Aug 2023 11:15

Tgt Ion:149 Resp: 1494743

Ion	Ratio	Lower	Upper
149	100		
177	24.0	17.0	25.4
150	12.7	9.9	14.9





#61
4-Chlorophenyl-phenylether
Concen: 52.642 ng
RT: 10.374 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF134542.D
Acq: 01 Aug 2023 11:15

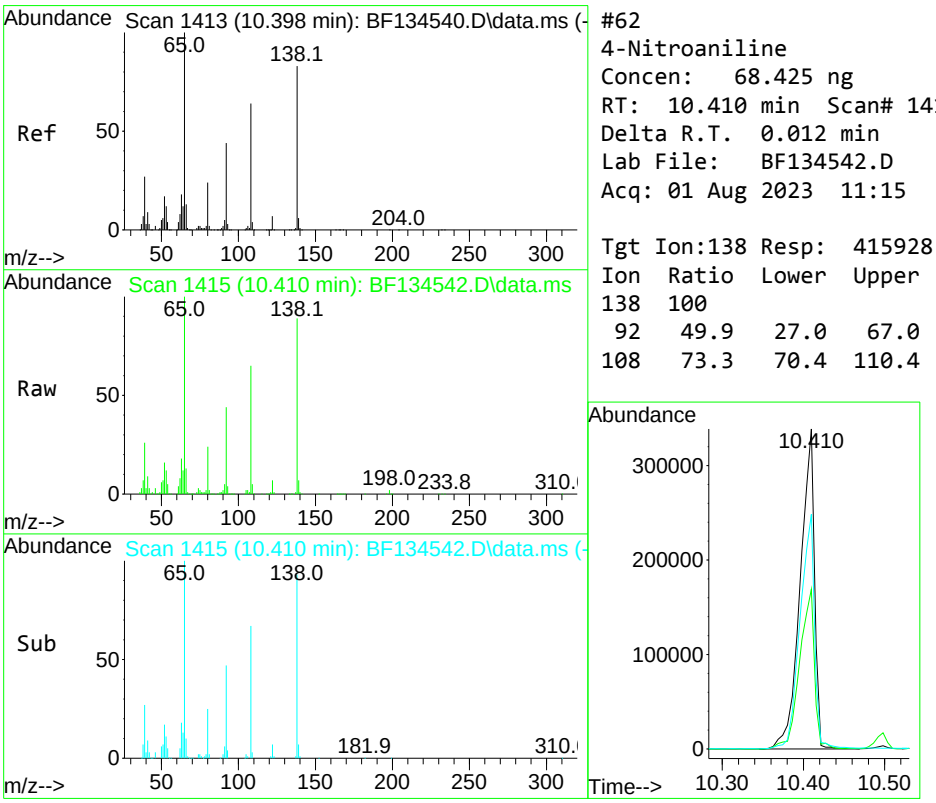
Tgt Ion:204 Resp: 65010

Ion	Ratio	Lower	Upper
204	100		
206	32.5	26.0	39.0
141	58.3	52.2	78.4

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

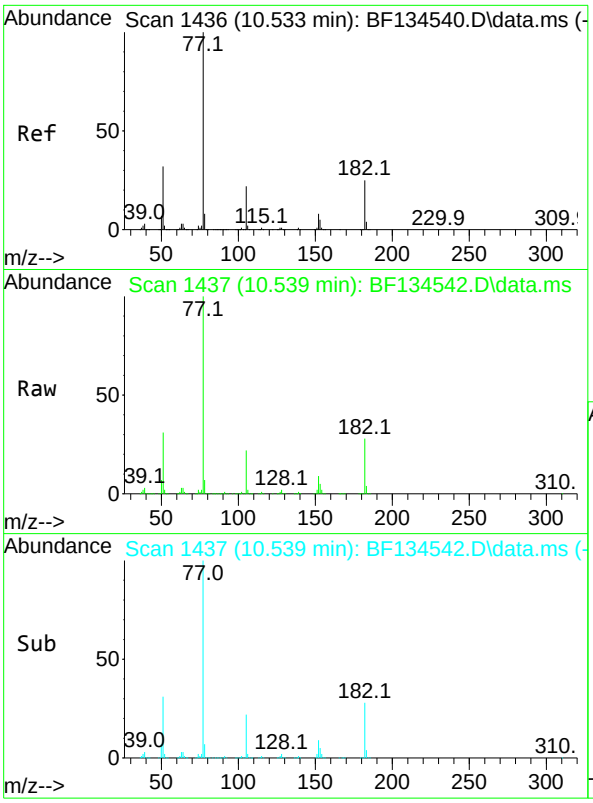
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023



#62
4-Nitroaniline
Concen: 68.425 ng
RT: 10.410 min Scan# 1415
Delta R.T. 0.012 min
Lab File: BF134542.D
Acq: 01 Aug 2023 11:15

Tgt Ion:138 Resp: 415928

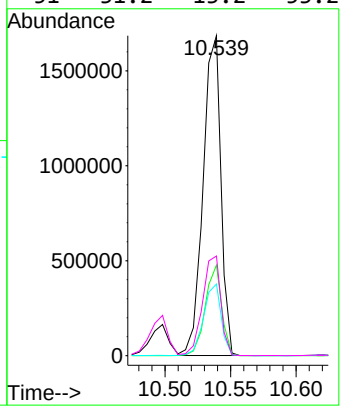
Ion	Ratio	Lower	Upper
138	100		
92	49.9	27.0	67.0
108	73.3	70.4	110.4



#63
Azobenzene
Concen: 56.292 ng
RT: 10.539 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF134542.D
Acq: 01 Aug 2023 11:15

Tgt Ion: 77 Resp: 159508

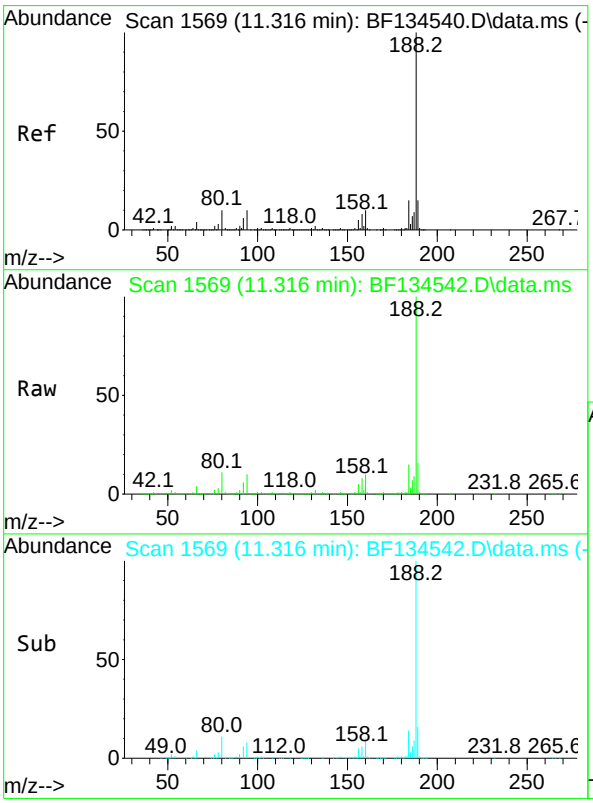
Ion	Ratio	Lower	Upper
77	100		
182	28.3	7.5	47.5
105	22.4	1.9	41.9
51	31.2	13.2	53.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

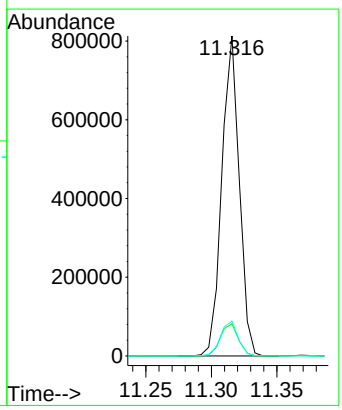
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

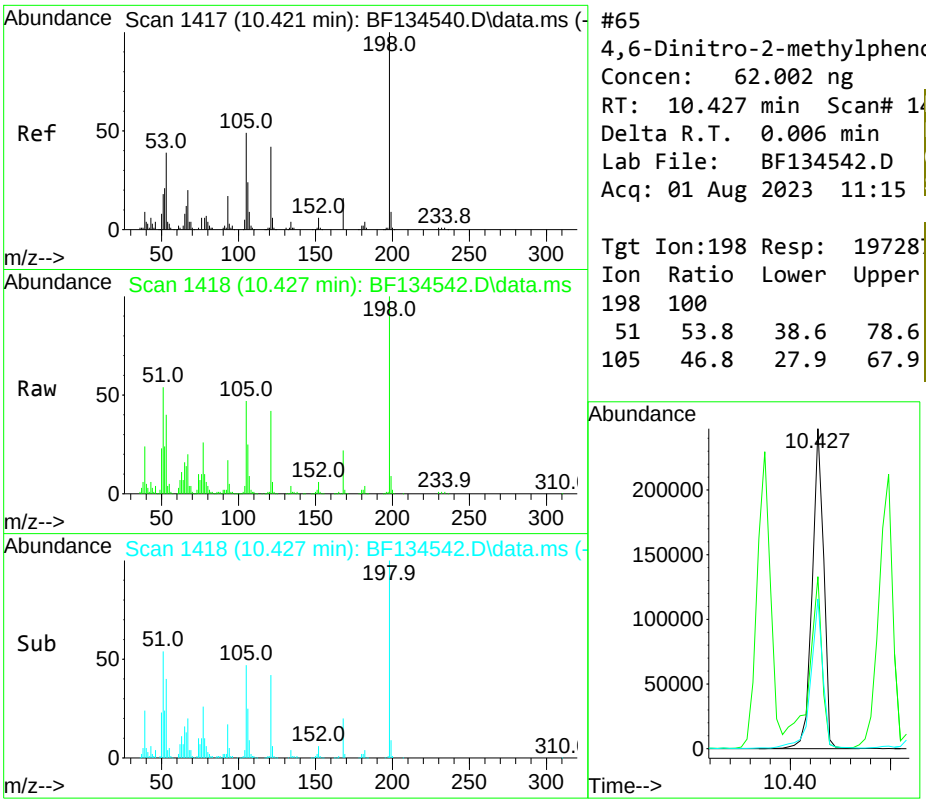


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.316 min Scan# 1569
Delta R.T. 0.000 min
Lab File: BF134542.D
Acq: 01 Aug 2023 11:15

Tgt Ion:188 Resp: 749784

Ion	Ratio	Lower	Upper
188	100		
94	10.1	5.1	7.7#
80	11.0	6.6	9.8#





#65
4,6-Dinitro-2-methylphenol
Concen: 62.002 ng
RT: 10.427 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF134542.D
Acq: 01 Aug 2023 11:15

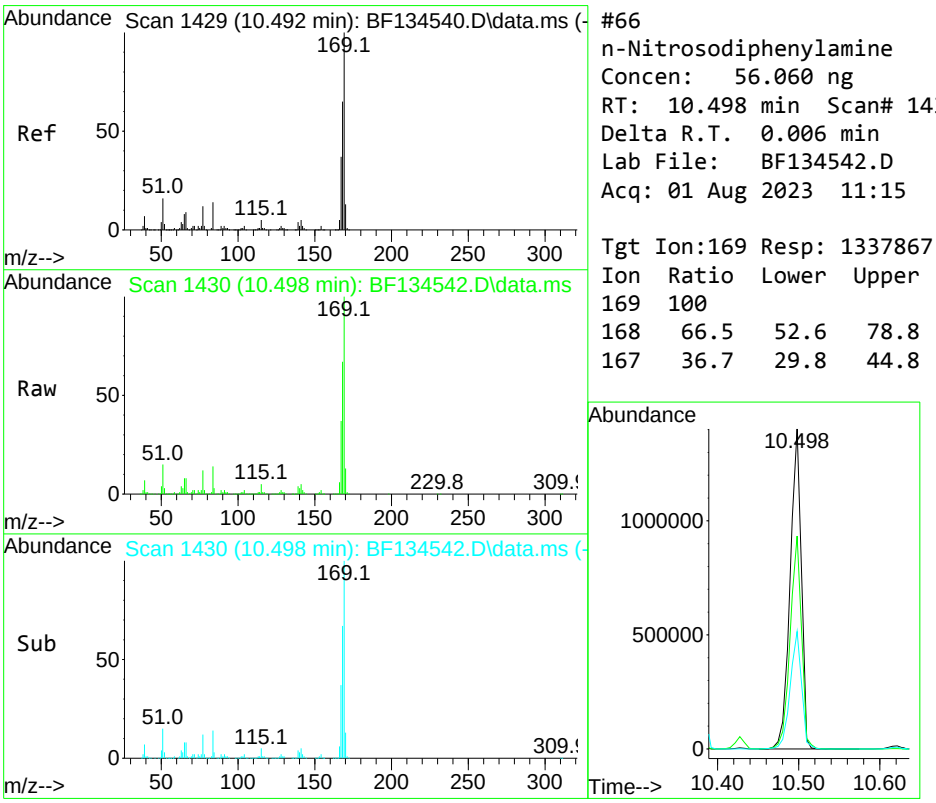
Tgt Ion:198 Resp: 19728

Ion	Ratio	Lower	Upper
198	100		
51	53.8	38.6	78.6
105	46.8	27.9	67.9

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

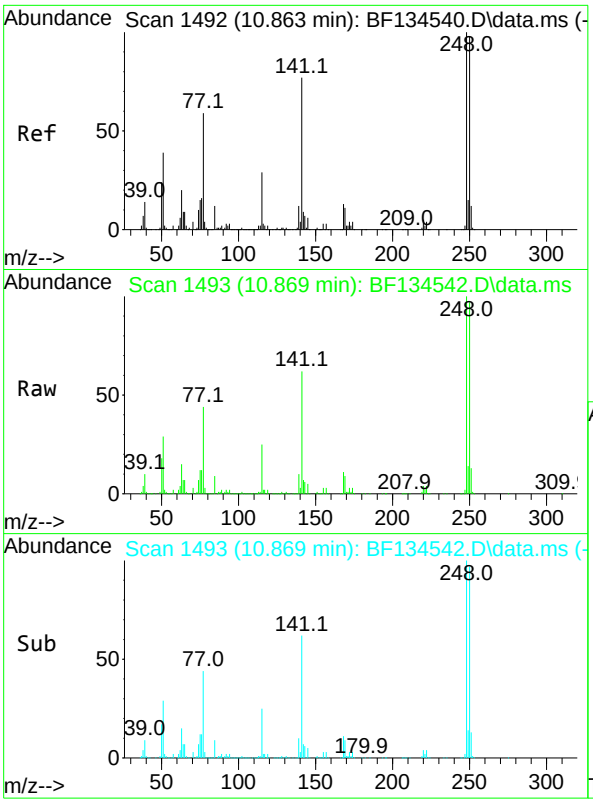
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023



#66
n-Nitrosodiphenylamine
Concen: 56.060 ng
RT: 10.498 min Scan# 1430
Delta R.T. 0.006 min
Lab File: BF134542.D
Acq: 01 Aug 2023 11:15

Tgt Ion:169 Resp: 1337867

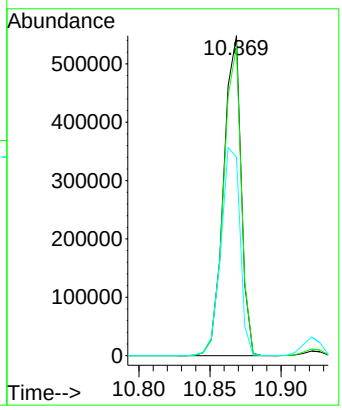
Ion	Ratio	Lower	Upper
169	100		
168	66.5	52.6	78.8
167	36.7	29.8	44.8



#67
4-Bromophenyl-phenylether
Concen: 57.366 ng
RT: 10.869 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF134542.D
Acq: 01 Aug 2023 11:15

Tgt Ion:248 Resp: 47084

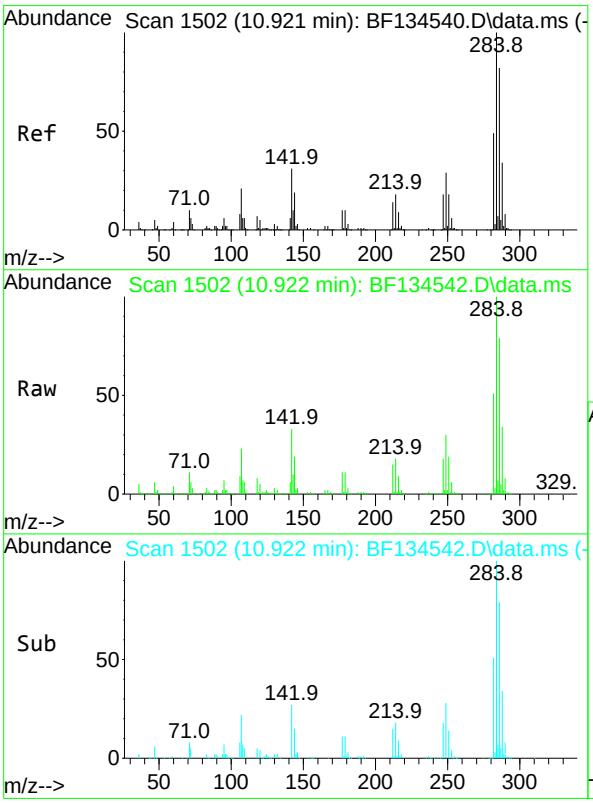
Ion	Ratio	Lower	Upper
248	100		
250	96.7	79.6	119.4
141	62.1	59.6	89.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

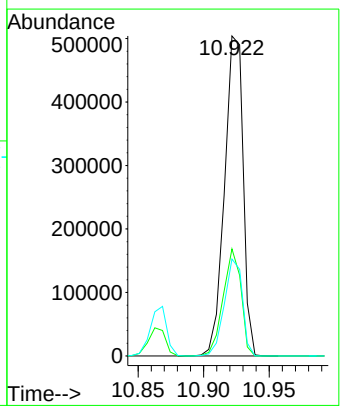
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

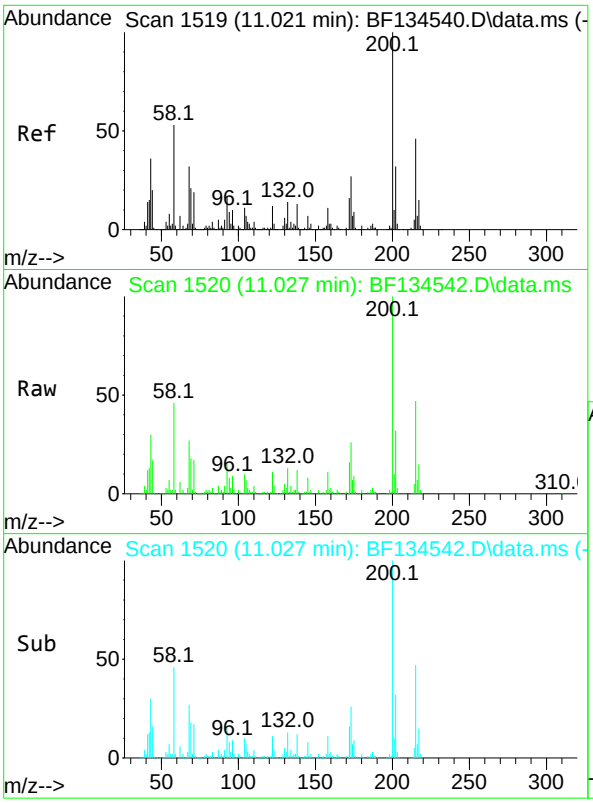


#68
Hexachlorobenzene
Concen: 57.418 ng
RT: 10.922 min Scan# 1502
Delta R.T. 0.000 min
Lab File: BF134542.D
Acq: 01 Aug 2023 11:15

Tgt Ion:284 Resp: 497660

Ion	Ratio	Lower	Upper
284	100		
142	33.5	26.5	39.7
249	30.3	23.8	35.8





#69
Atrazine
Concen: 53.454 ng
RT: 11.027 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF134542.D
Acq: 01 Aug 2023 11:15

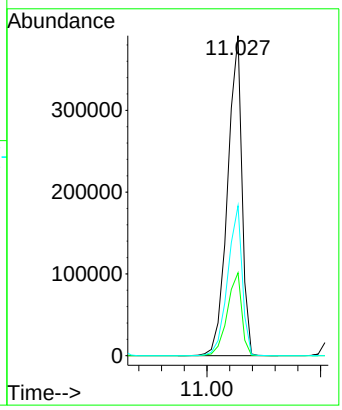
Tgt Ion:200 Resp: 34384

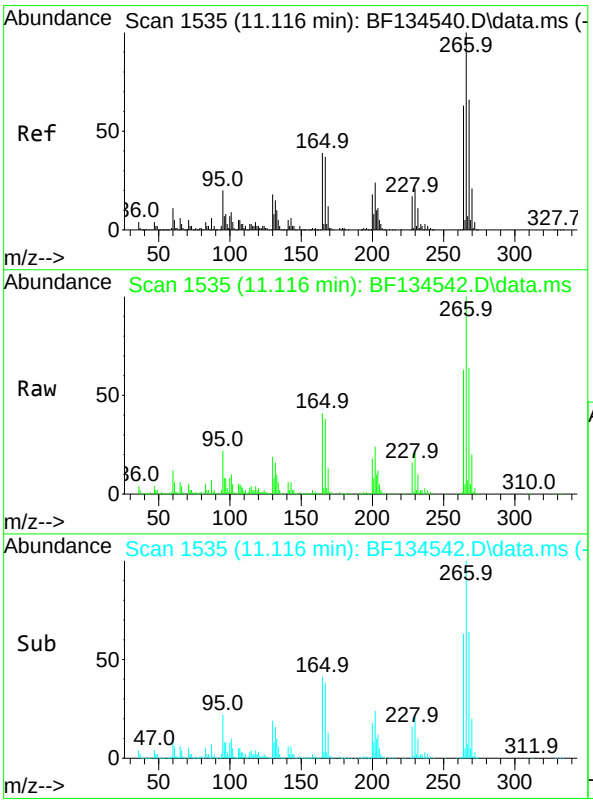
Ion	Ratio	Lower	Upper
200	100		
173	25.9	6.1	46.1
215	46.9	29.7	69.7

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

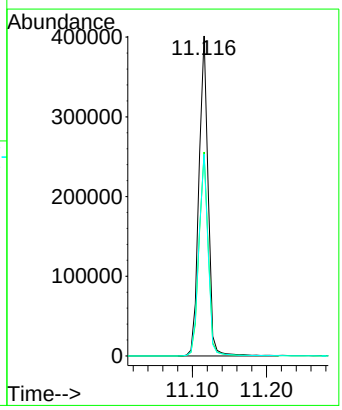


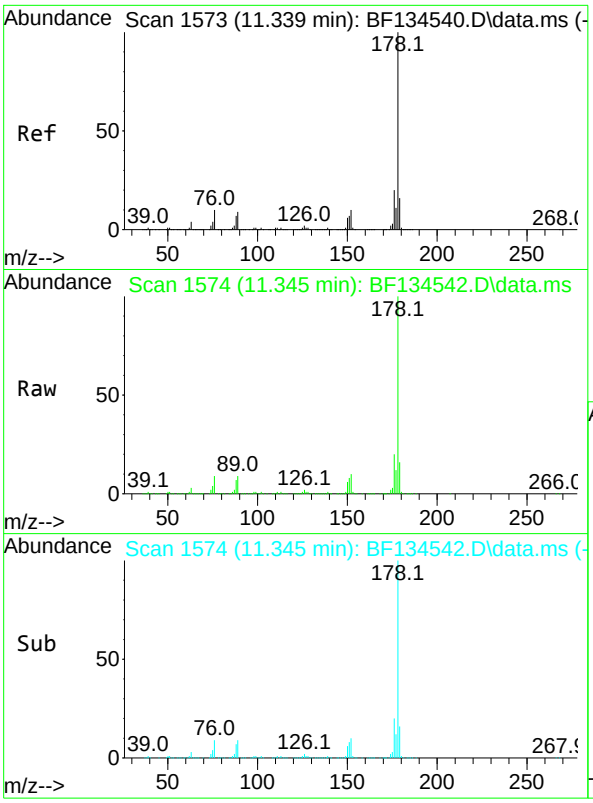


#70
Pentachlorophenol
Concen: 64.552 ng
RT: 11.116 min Scan# 1535
Delta R.T. 0.000 min
Lab File: BF134542.D
Acq: 01 Aug 2023 11:15

Tgt Ion:266 Resp: 346415

Ion	Ratio	Lower	Upper
266	100		
268	63.8	52.9	79.3
264	63.1	47.8	71.6

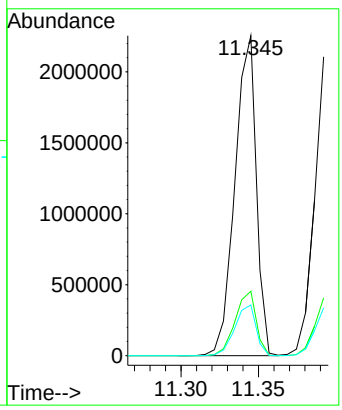




#71
Phenanthrene
Concen: 54.204 ng
RT: 11.345 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF134542.D
Acq: 01 Aug 2023 11:15

Tgt Ion:178 Resp: 215871

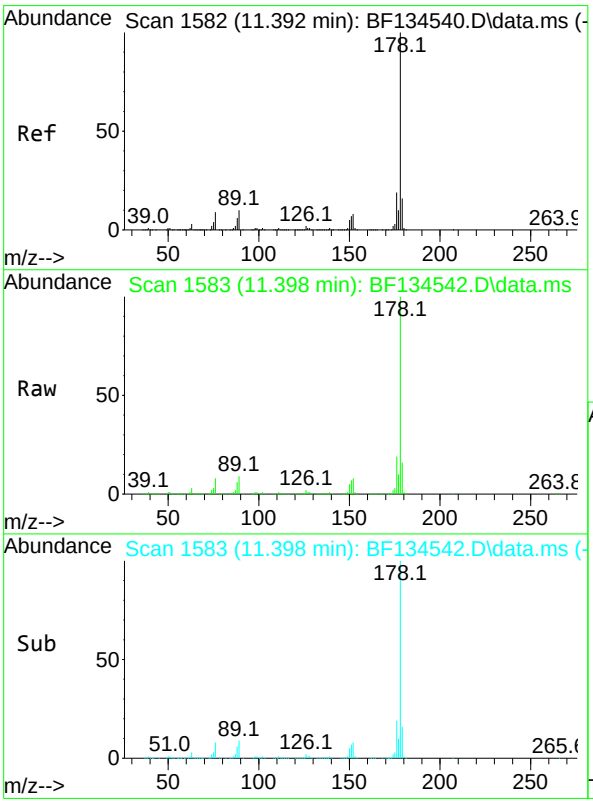
Ion	Ratio	Lower	Upper
178	100		
176	20.2	15.8	23.6
179	15.8	12.7	19.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

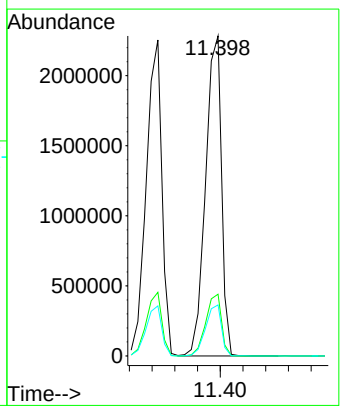
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

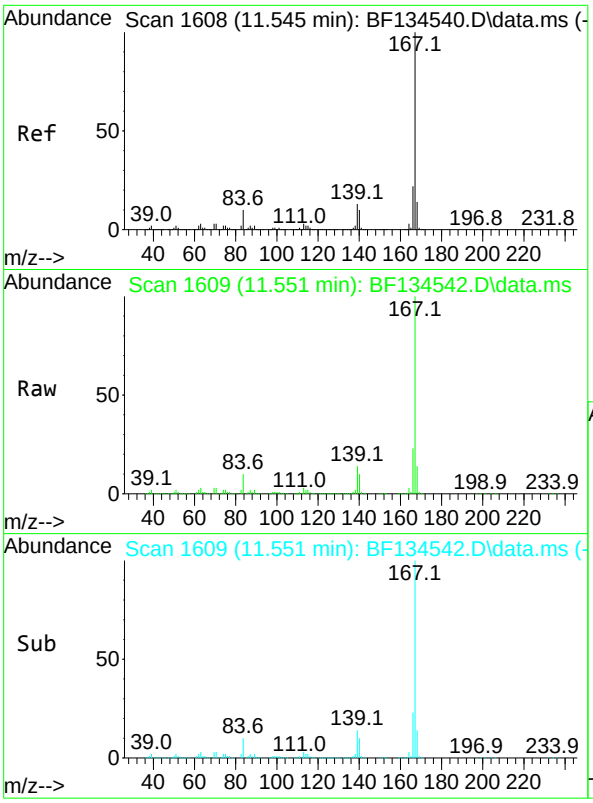


#72
Anthracene
Concen: 54.566 ng
RT: 11.398 min Scan# 1583
Delta R.T. 0.006 min
Lab File: BF134542.D
Acq: 01 Aug 2023 11:15

Tgt Ion:178 Resp: 2219716

Ion	Ratio	Lower	Upper
178	100		
176	19.3	14.6	21.8
179	15.9	12.3	18.5

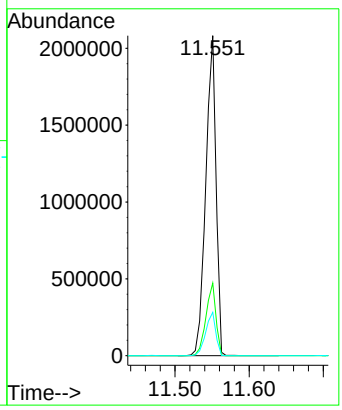




#73
Carbazole
Concen: 55.332 ng
RT: 11.551 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF134542.D
Acq: 01 Aug 2023 11:15

Tgt Ion:167 Resp: 200974

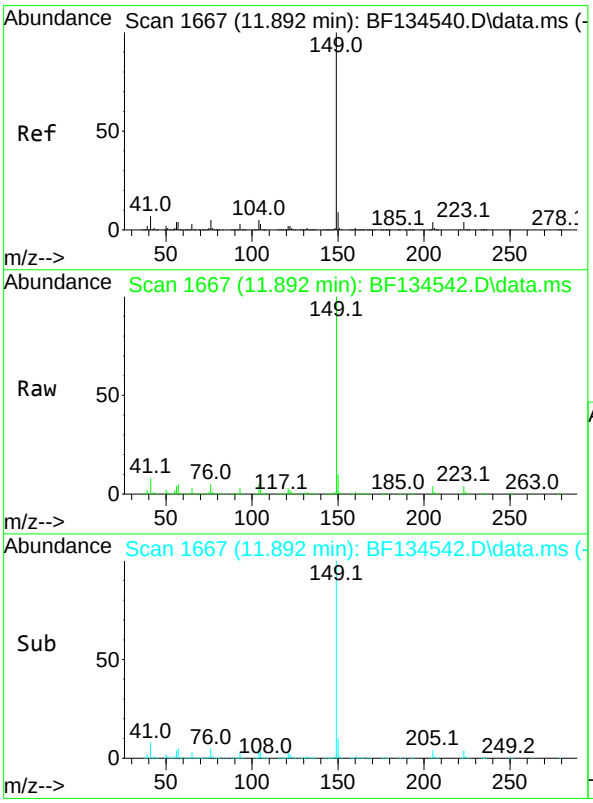
Ion	Ratio	Lower	Upper
167	100		
166	22.7	17.5	26.3
139	13.6	11.0	16.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

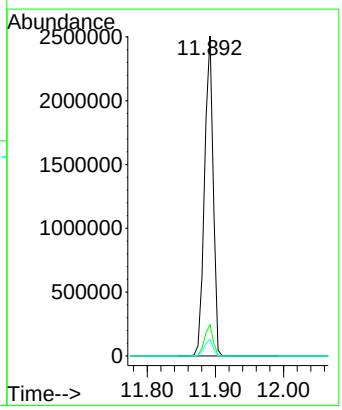
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

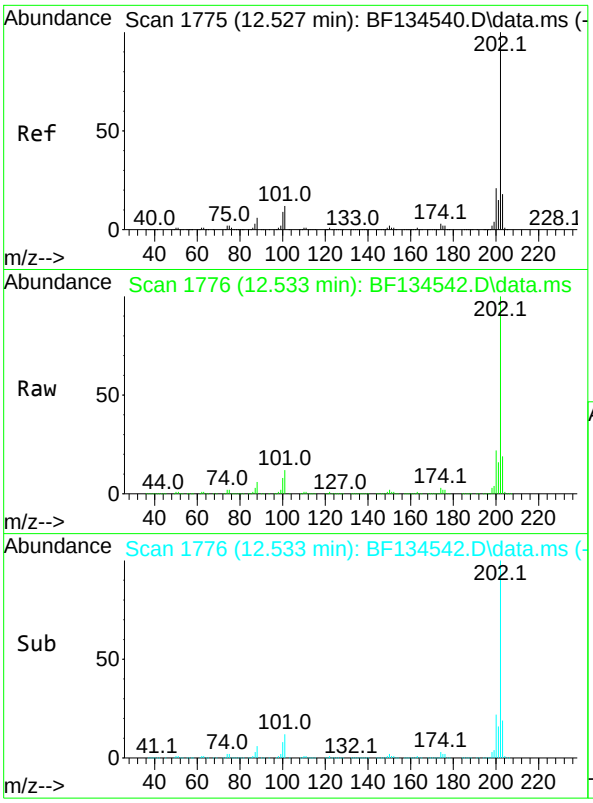


#74
Di-n-butylphthalate
Concen: 57.098 ng
RT: 11.892 min Scan# 1667
Delta R.T. 0.000 min
Lab File: BF134542.D
Acq: 01 Aug 2023 11:15

Tgt Ion:149 Resp: 2203310

Ion	Ratio	Lower	Upper
149	100		
150	9.8	7.2	10.8
104	5.2	3.8	5.8

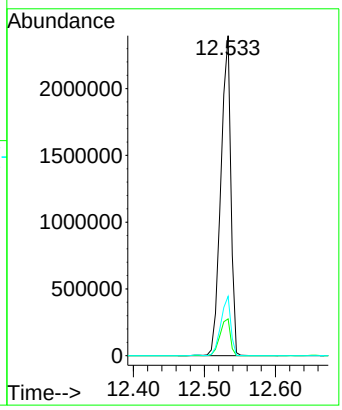




#75
Fluoranthene
Concen: 55.168 ng
RT: 12.533 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF134542.D
Acq: 01 Aug 2023 11:15

Tgt Ion:202 Resp: 232083

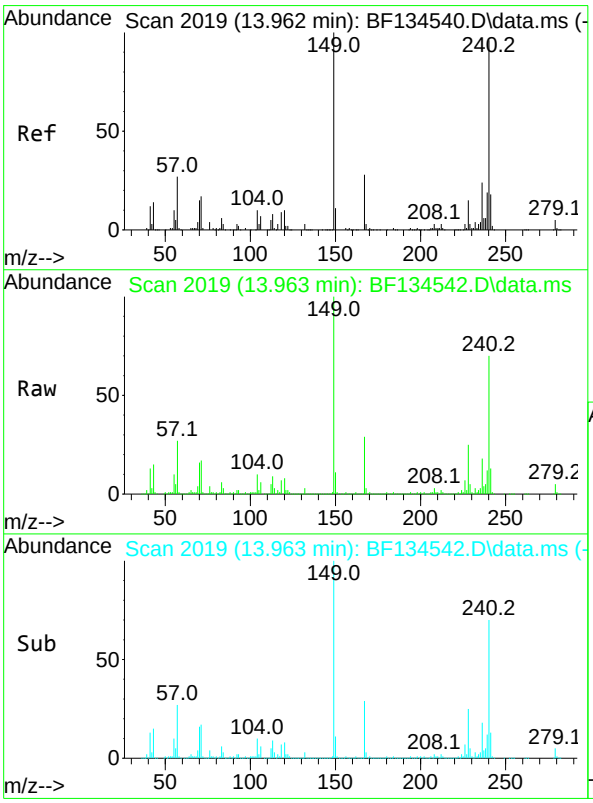
Ion	Ratio	Lower	Upper
202	100		
101	11.5	0.0	28.5
203	18.5	0.0	37.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

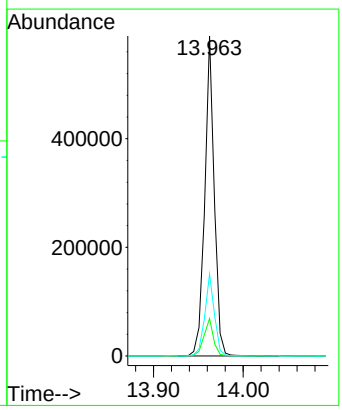
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

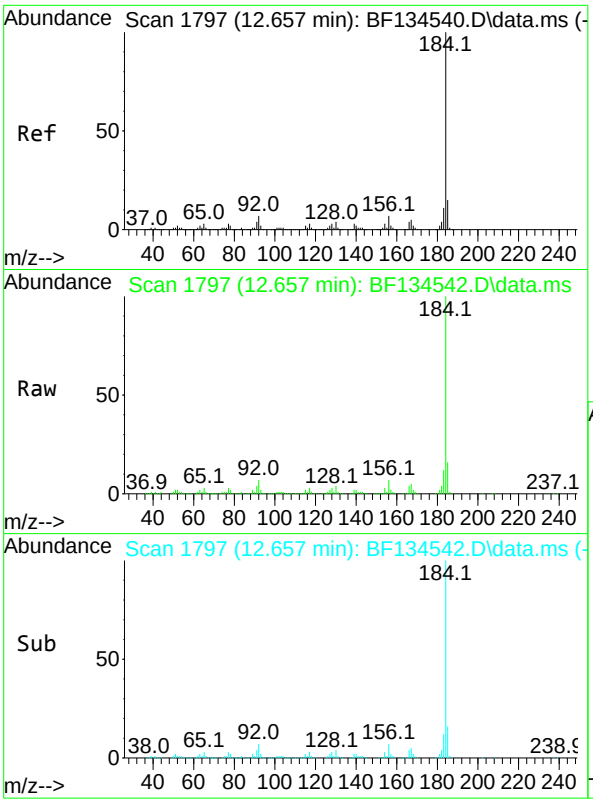


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.963 min Scan# 2019
Delta R.T. 0.000 min
Lab File: BF134542.D
Acq: 01 Aug 2023 11:15

Tgt Ion:240 Resp: 434103

Ion	Ratio	Lower	Upper
240	100		
120	11.7	6.6	10.0#
236	25.6	20.2	30.2

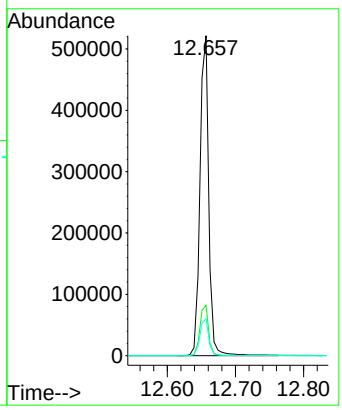




#77
Benzidine
Concen: 49.433 ng
RT: 12.657 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134542.D
Acq: 01 Aug 2023 11:15

Tgt Ion:184 Resp: 46583

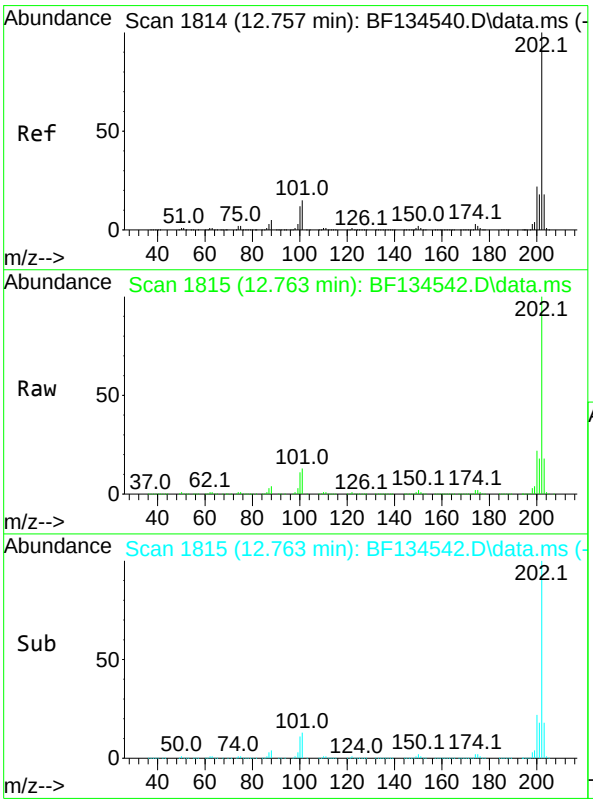
Ion	Ratio	Lower	Upper
184	100		
185	15.8	11.2	16.8
183	11.5	8.6	13.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

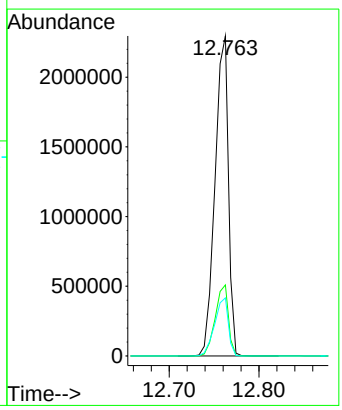
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

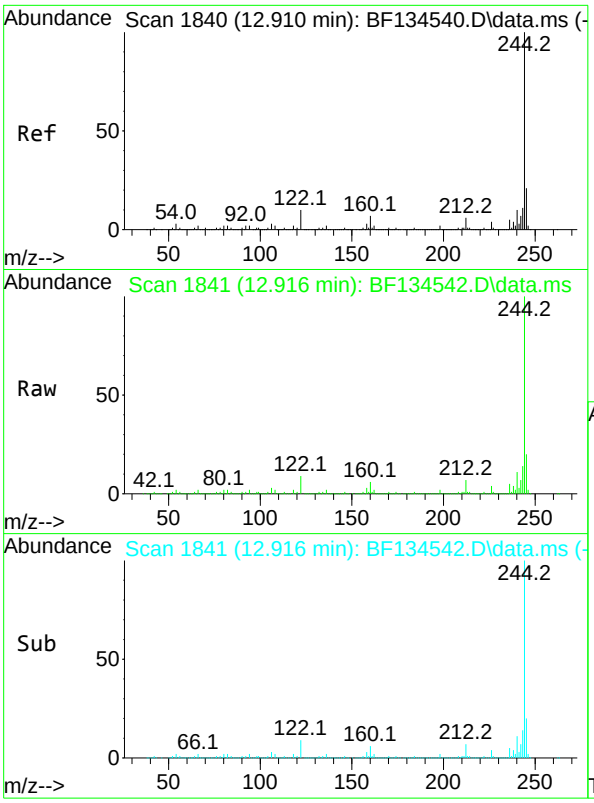


#78
Pyrene
Concen: 63.243 ng
RT: 12.763 min Scan# 1815
Delta R.T. 0.006 min
Lab File: BF134542.D
Acq: 01 Aug 2023 11:15

Tgt Ion:202 Resp: 2375644

Ion	Ratio	Lower	Upper
202	100		
200	22.2	15.8	23.8
203	18.2	13.5	20.3

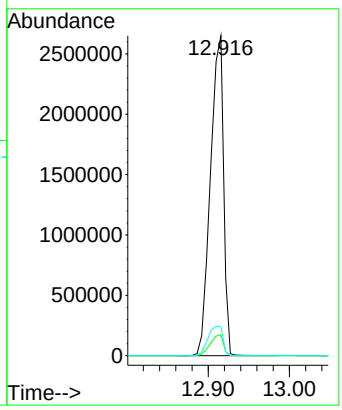




#79
Terphenyl-d14
Concen: 120.572 ng
RT: 12.916 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF134542.D
Acq: 01 Aug 2023 11:15

Tgt Ion:244 Resp: 296907

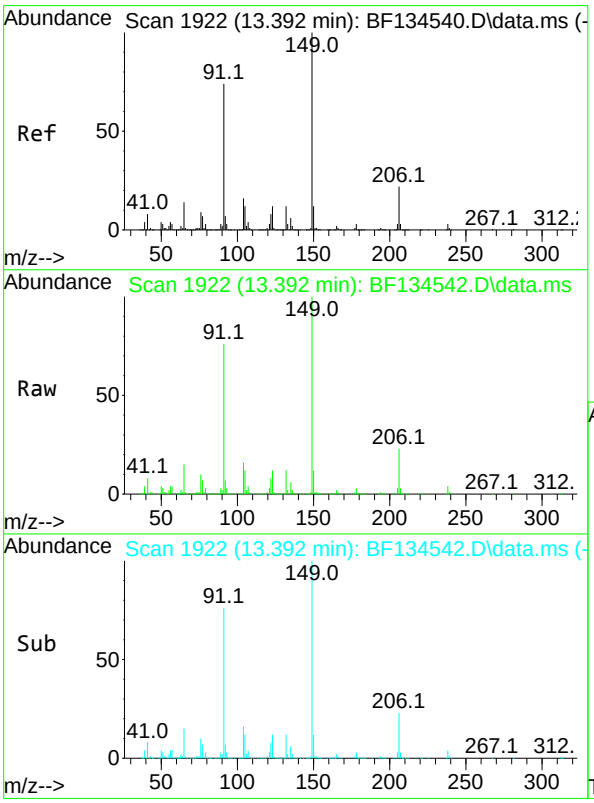
Ion	Ratio	Lower	Upper
244	100		
212	6.5	5.6	8.4
122	9.0	8.0	12.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

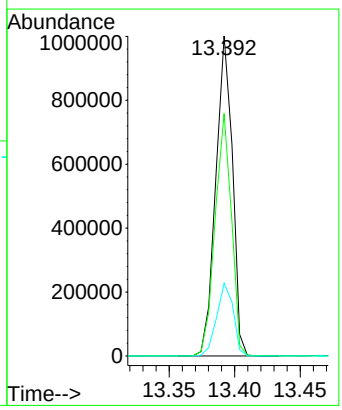
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

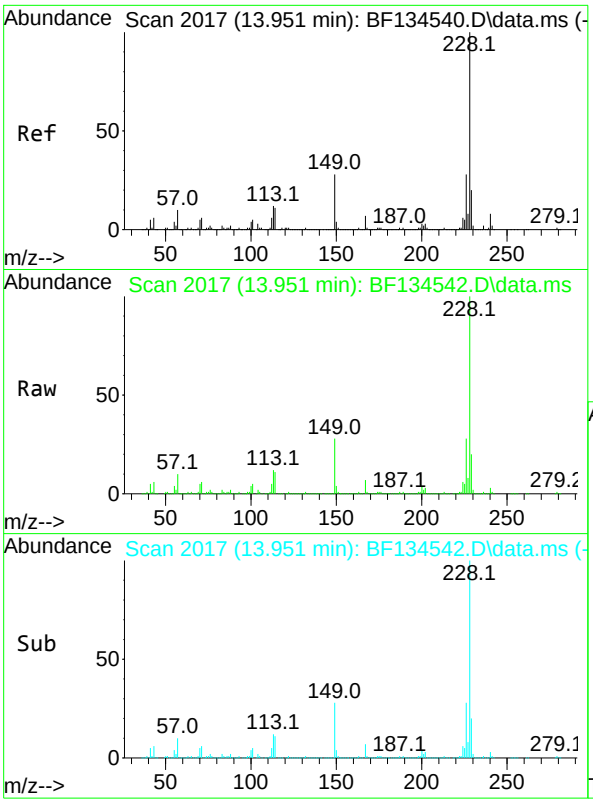


#80
Butylbenzylphthalate
Concen: 69.392 ng
RT: 13.392 min Scan# 1922
Delta R.T. 0.000 min
Lab File: BF134542.D
Acq: 01 Aug 2023 11:15

Tgt Ion:149 Resp: 881407

Ion	Ratio	Lower	Upper
149	100		
91	75.7	55.8	83.6
206	22.7	14.6	21.8#

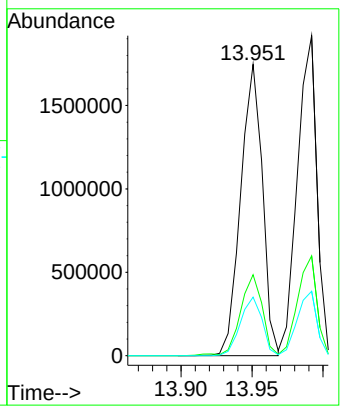




#81
Benzo(a)anthracene
Concen: 59.804 ng
RT: 13.951 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF134542.D
Acq: 01 Aug 2023 11:15

Tgt Ion:228 Resp: 185635

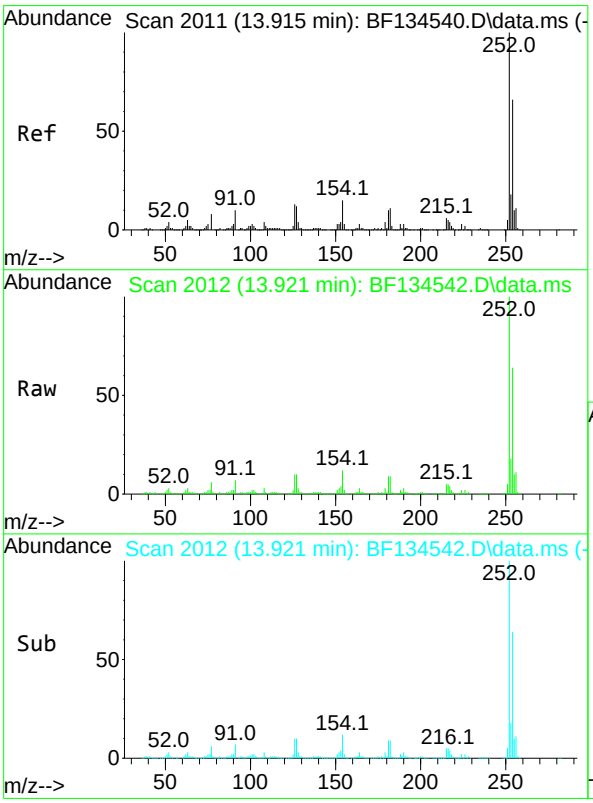
Ion	Ratio	Lower	Upper
228	100		
226	27.8	22.3	33.5
229	20.1	15.8	23.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

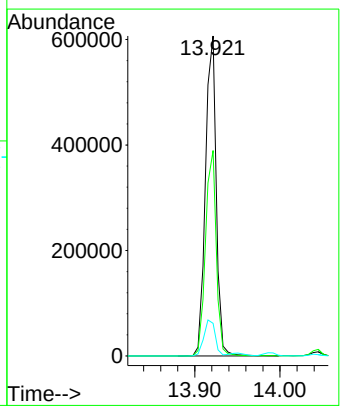
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

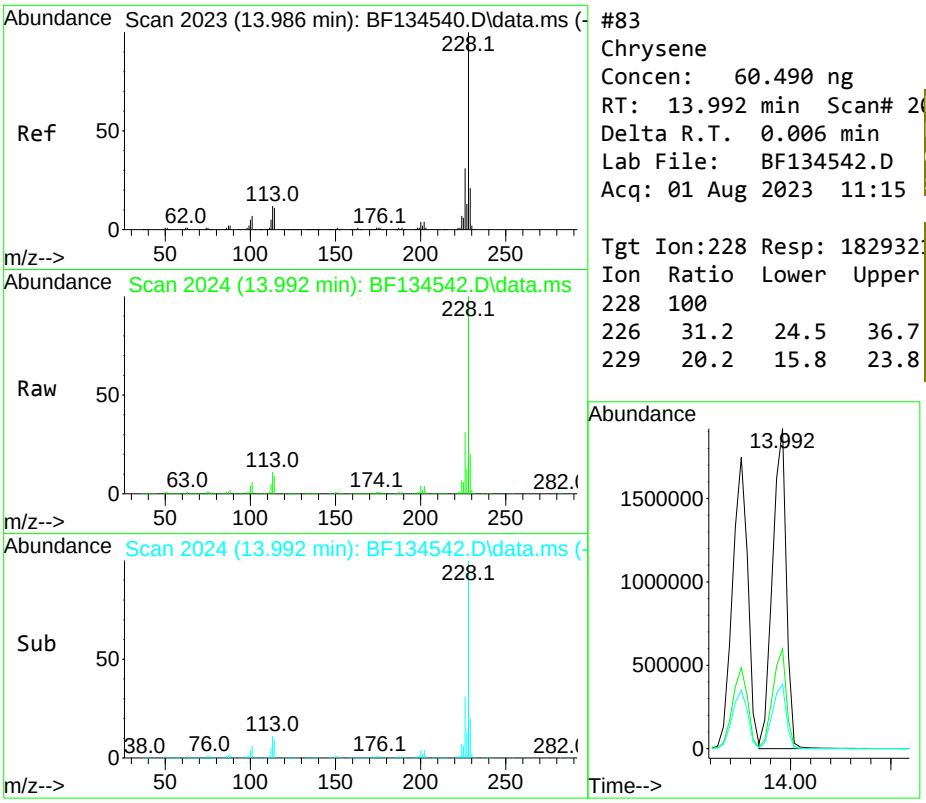


#82
3,3'-Dichlorobenzidine
Concen: 59.172 ng
RT: 13.921 min Scan# 2012
Delta R.T. 0.006 min
Lab File: BF134542.D
Acq: 01 Aug 2023 11:15

Tgt Ion:252 Resp: 532400

Ion	Ratio	Lower	Upper
252	100		
254	64.2	52.7	79.1
126	10.2	7.2	10.8





#83
Chrysene
Concen: 60.490 ng
RT: 13.992 min Scan# 2(
Delta R.T. 0.006 min
Lab File: BF134542.D
Acq: 01 Aug 2023 11:15

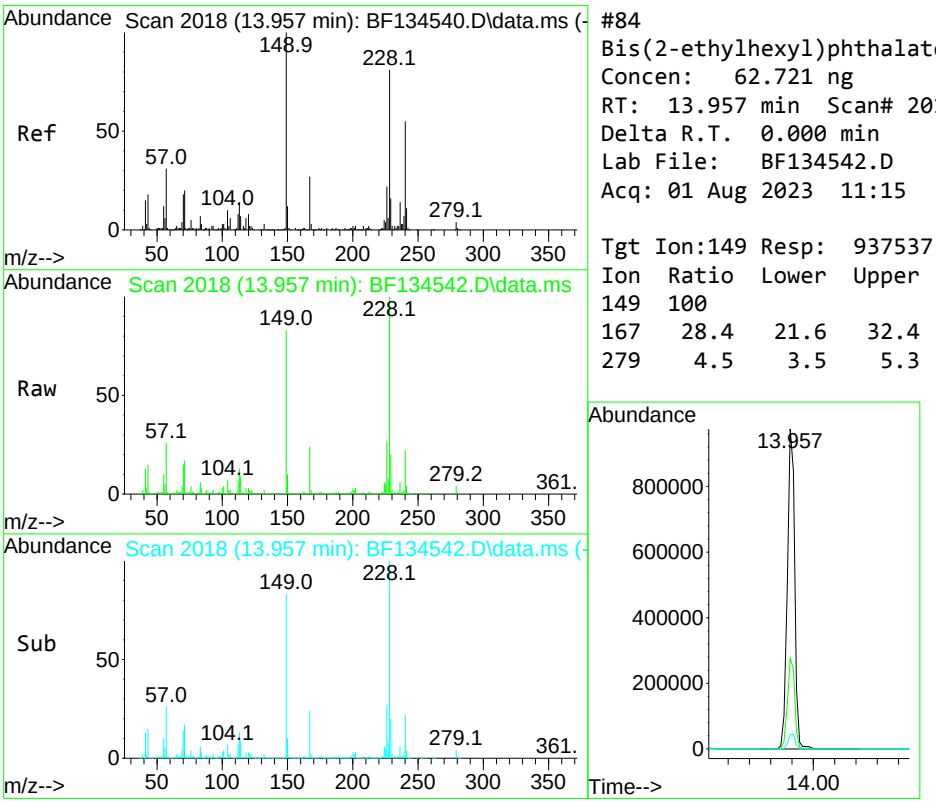
Tgt Ion:228 Resp: 182932

Ion	Ratio	Lower	Upper
228	100		
226	31.2	24.5	36.7
229	20.2	15.8	23.8

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

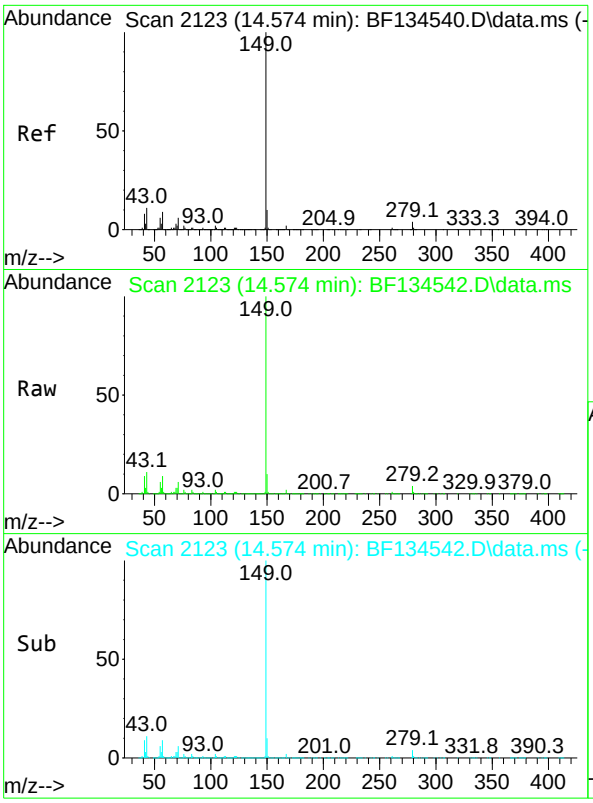
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023



#84
Bis(2-ethylhexyl)phthalate
Concen: 62.721 ng
RT: 13.957 min Scan# 2018
Delta R.T. 0.000 min
Lab File: BF134542.D
Acq: 01 Aug 2023 11:15

Tgt Ion:149 Resp: 937537

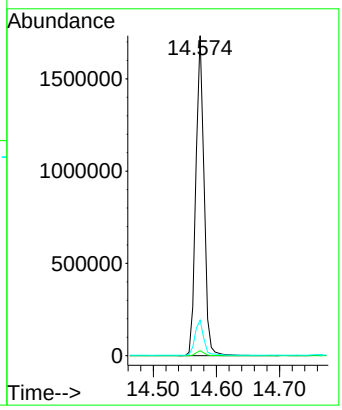
Ion	Ratio	Lower	Upper
149	100		
167	28.4	21.6	32.4
279	4.5	3.5	5.3



#85
Di-n-octyl phthalate
Concen: 68.506 ng
RT: 14.574 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF134542.D
Acq: 01 Aug 2023 11:15

Tgt Ion:149 Resp: 155720

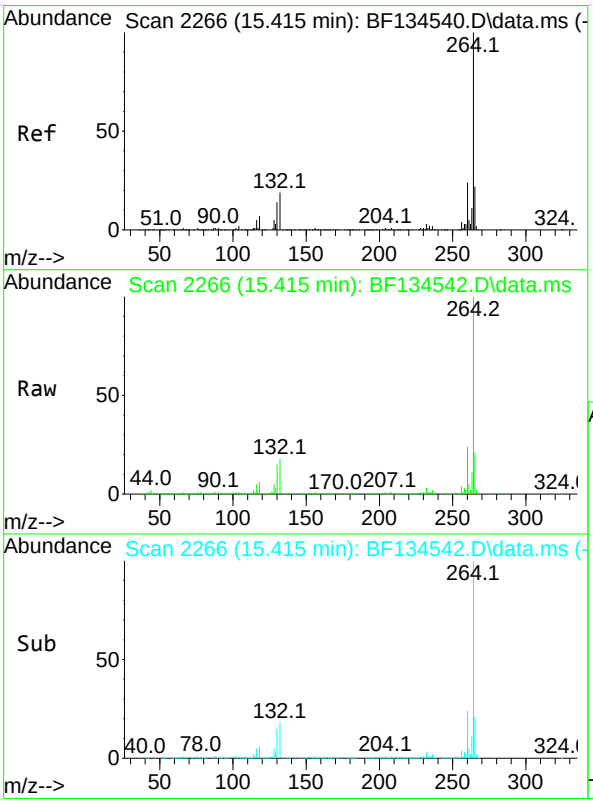
Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.2	1.8
43	11.7	8.1	12.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

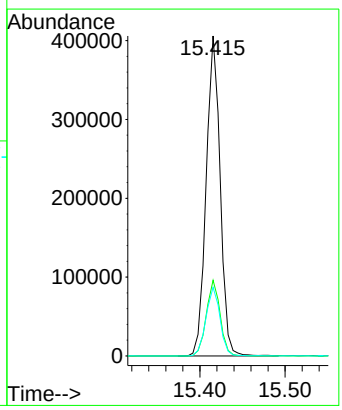
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

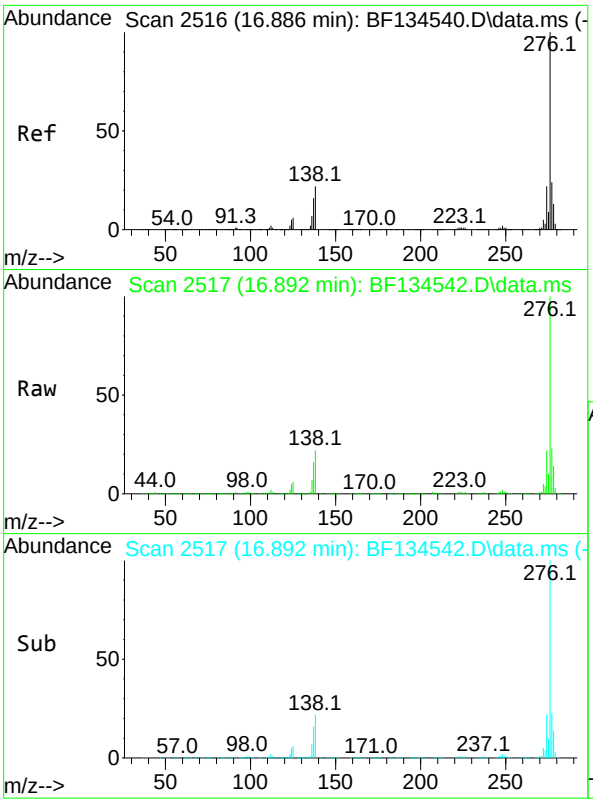


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.415 min Scan# 2266
Delta R.T. 0.000 min
Lab File: BF134542.D
Acq: 01 Aug 2023 11:15

Tgt Ion:264 Resp: 462340

Ion	Ratio	Lower	Upper
264	100		
260	23.7	18.4	27.6
265	21.5	15.8	23.8

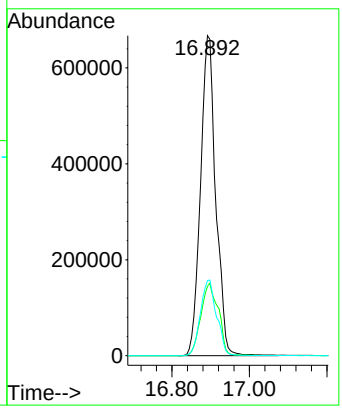




#87
Indeno(1,2,3-cd)pyrene
Concen: 67.103 ng
RT: 16.892 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF134542.D
Acq: 01 Aug 2023 11:15

Tgt Ion:276 Resp: 182463

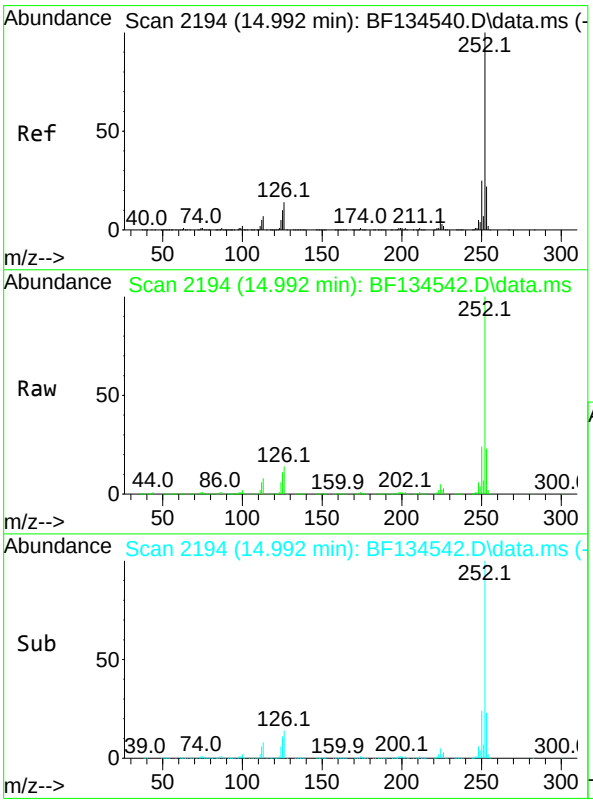
Ion	Ratio	Lower	Upper
276	100		
138	26.0	14.2	21.4#
277	25.3	19.9	29.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

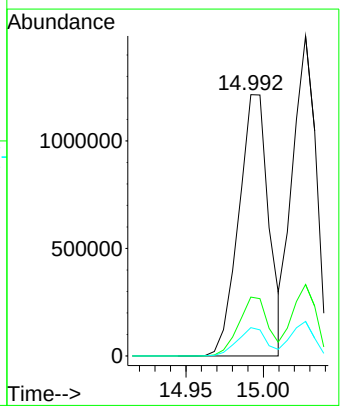
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

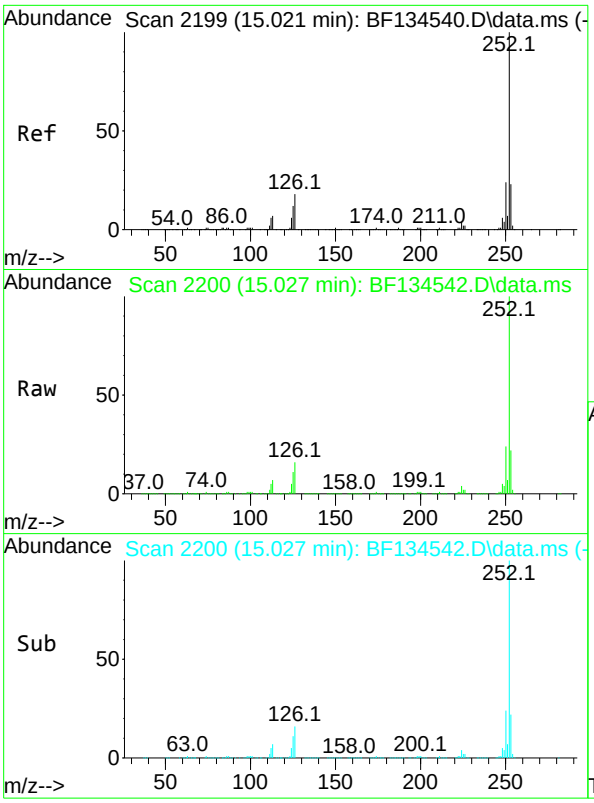


#88
Benzo(b)fluoranthene
Concen: 58.193 ng
RT: 14.992 min Scan# 2194
Delta R.T. 0.000 min
Lab File: BF134542.D
Acq: 01 Aug 2023 11:15

Tgt Ion:252 Resp: 1640901

Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.3	25.9
125	10.8	6.0	9.0#

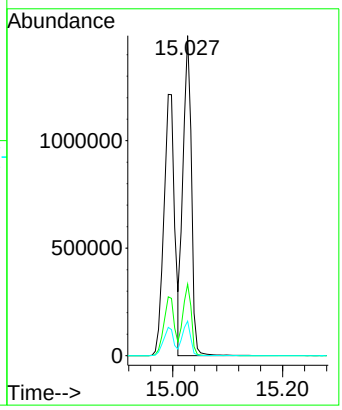




#89
Benzo(k)fluoranthene
Concen: 56.577 ng
RT: 15.027 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF134542.D
Acq: 01 Aug 2023 11:15

Tgt Ion:252 Resp: 158923

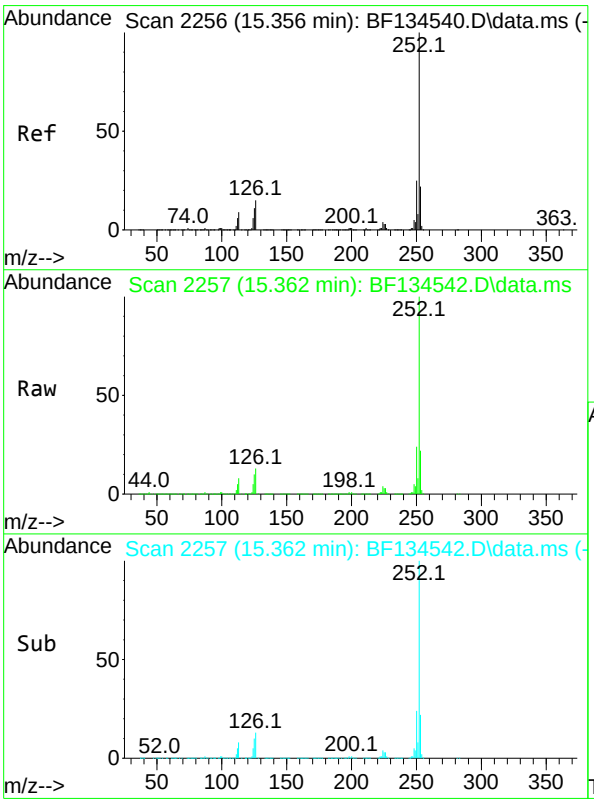
Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.9	26.9
125	10.8	6.3	9.5#



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

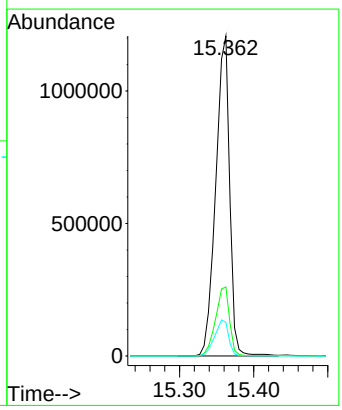
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

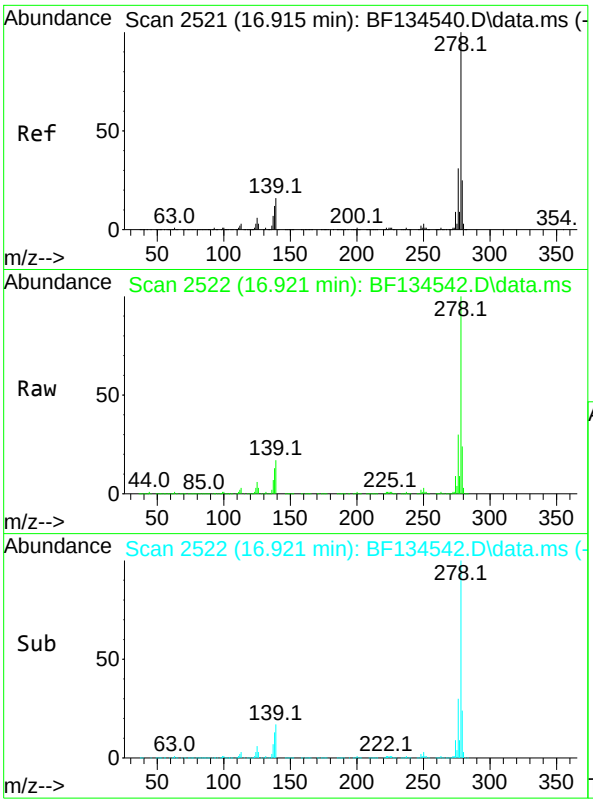


#90
Benzo(a)pyrene
Concen: 59.790 ng
RT: 15.362 min Scan# 2257
Delta R.T. 0.006 min
Lab File: BF134542.D
Acq: 01 Aug 2023 11:15

Tgt Ion:252 Resp: 1571940

Ion	Ratio	Lower	Upper
252	100		
253	21.5	17.0	25.4
125	10.5	6.2	9.4#

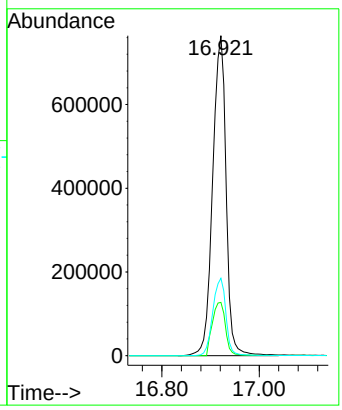




#91
Dibenzo(a,h)anthracene
Concen: 66.583 ng
RT: 16.921 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF134542.D
Acq: 01 Aug 2023 11:15

Tgt Ion:278 Resp: 146315

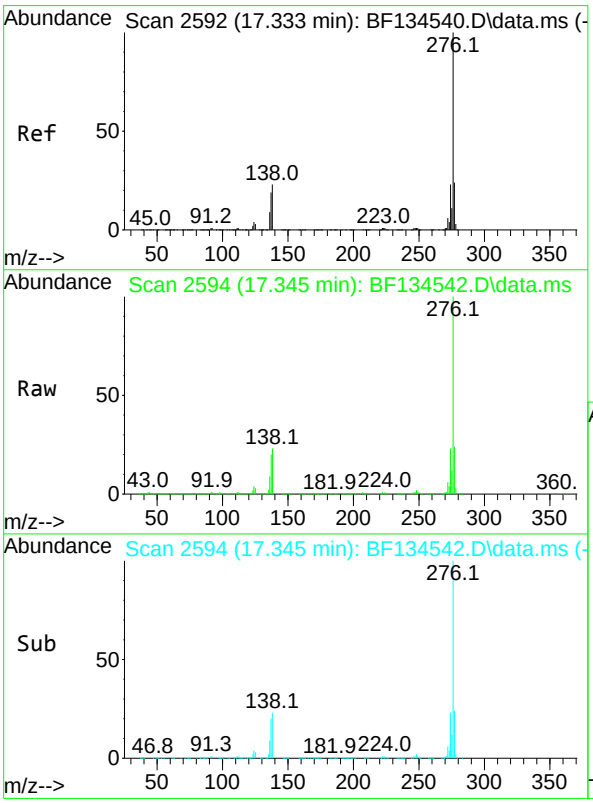
Ion	Ratio	Lower	Upper
278	100		
139	16.7	10.0	15.0#
279	24.2	19.7	29.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

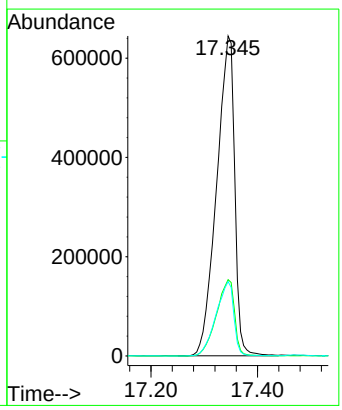
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023



#92
Benzo(g,h,i)perylene
Concen: 67.510 ng
RT: 17.345 min Scan# 2594
Delta R.T. 0.012 min
Lab File: BF134542.D
Acq: 01 Aug 2023 11:15

Tgt Ion:276 Resp: 1513283

Ion	Ratio	Lower	Upper
276	100		
277	23.8	19.0	28.6
138	23.2	12.2	18.2#



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080123\
Data File : BF134543.D
Acq On : 01 Aug 2023 11:47
Operator : CG\JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 02 02:17:18 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 02 02:08:18 2023
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.798	152	227994	20.000	ng		0.00
21) Naphthalene-d8	8.075	136	822174	20.000	ng	#	0.00
39) Acenaphthene-d10	9.833	164	408827	20.000	ng		0.00
64) Phenanthrene-d10	11.316	188	742325	20.000	ng	#	0.00
76) Chrysene-d12	13.962	240	389787	20.000	ng	#	0.00
86) Perylene-d12	15.415	264	429624	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.422	112	1984022	132.280	ng		0.00
7) Phenol-d6	6.439	99	2520460	131.460	ng		0.01
23) Nitrobenzene-d5	7.369	82	2133664	162.178	ng		0.01
42) 2,4,6-Tribromophenol	10.622	330	643474	154.399	ng		0.00
45) 2-Fluorobiphenyl	9.157	172	3063825	124.605	ng		0.00
79) Terphenyl-d14	12.915	244	3381587	152.937	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.557	88	497742	72.128	ng	#	95
3) Pyridine	3.310	79	1360755	72.770	ng		93
4) n-Nitrosodimethylamine	3.298	42	655256	73.338	ng	#	65
6) Aniline	6.475	93	1752238	69.678	ng		92
8) 2-Chlorophenol	6.586	128	1001633	66.202	ng		98
10) Phenol	6.451	94	1236477m	65.439	ng		
11) bis(2-Chloroethyl)ether	6.545	93	1002822	66.813	ng		94
12) 1,3-Dichlorobenzene	6.739	146	1043434	66.656	ng		96
13) 1,4-Dichlorobenzene	6.816	146	1028490	65.556	ng		98
14) 1,2-Dichlorobenzene	6.969	146	913581	62.498	ng		98
15) Benzyl Alcohol	6.945	79	835044	63.133	ng		95
16) 2,2'-oxybis(1-Chloropr...	7.081	45	1604997	68.256	ng		90
17) 2-Methylphenol	7.051	107	937651	70.131	ng		92
18) Hexachloroethane	7.310	117	381617	69.306	ng		93
19) n-Nitroso-di-n-propyla...	7.228	70	764444	66.593	ng		92
20) 3+4-Methylphenols	7.210	107	967867	60.026	ng	#	79
22) Acetophenone	7.216	105	1214036	63.962	ng	#	92
24) Nitrobenzene	7.386	77	1089811	76.675	ng		96
25) Isophorone	7.628	82	2144057	74.718	ng		99
26) 2-Nitrophenol	7.698	139	509656	80.645	ng	#	84
27) 2,4-Dimethylphenol	7.733	122	938644m	73.311	ng		
28) bis(2-Chloroethoxy)met...	7.833	93	1218744	71.000	ng		99
29) 2,4-Dichlorophenol	7.933	162	857497	73.791	ng		97
30) 1,2,4-Trichlorobenzene	8.016	180	872812	70.434	ng		99
31) Naphthalene	8.098	128	2767045	66.965	ng		98
32) Benzoic acid	7.886	122	727119	80.657	ng		90
33) 4-Chloroaniline	8.151	127	1346207	73.118	ng		98
34) Hexachlorobutadiene	8.216	225	499289	69.851	ng		96
35) Caprolactam	8.551	113	297259m	79.261	ng		
36) 4-Chloro-3-methylphenol	8.633	107	904899	73.529	ng		93
37) 2-Methylnaphthalene	8.792	142	1768696	64.577	ng		99
38) 1-Methylnaphthalene	8.892	142	1690719	66.384	ng		98
40) 1,2,4,5-Tetrachloroben...	8.957	216	804950	67.709	ng		98
41) Hexachlorocyclopentadiene	8.939	237	463185	80.120	ng		91
43) 2,4,6-Trichlorophenol	9.063	196	583511	74.997	ng		97
44) 2,4,5-Trichlorophenol	9.104	196	661901	74.435	ng		94

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080123\
Data File : BF134543.D
Acq On : 01 Aug 2023 11:47
Operator : CG\JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

Quant Time: Aug 02 02:17:18 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 02 02:08:18 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) 1,1'-Biphenyl	9.257	154	2055902	64.668	ng		97
47) 2-Chloronaphthalene	9.280	162	1612906	67.708	ng		98
48) 2-Nitroaniline	9.375	65	606051	79.389	ng		96
49) Acenaphthylene	9.698	152	2489387	66.482	ng		99
50) Dimethylphthalate	9.569	163	1980147	71.064	ng		98
51) 2,6-Dinitrotoluene	9.627	165	461752	79.169	ng	#	78
52) Acenaphthene	9.869	154	1653438	68.138	ng		99
53) 3-Nitroaniline	9.798	138	553958	89.194	ng		97
54) 2,4-Dinitrophenol	9.892	184	178495	79.118	ng		92
55) Dibenzofuran	10.039	168	2269394	65.696	ng		96
56) 4-Nitrophenol	9.945	139	429726	84.599	ng	#	79
57) 2,4-Dinitrotoluene	10.027	165	545452	77.253	ng		91
58) Fluorene	10.386	166	1548111	61.528	ng		97
59) 2,3,4,6-Tetrachlorophenol	10.157	232	529499	75.139	ng		96
60) Diethylphthalate	10.269	149	1834884	69.473	ng		95
61) 4-Chlorophenyl-phenyle...	10.374	204	761135	61.543	ng		95
62) 4-Nitroaniline	10.416	138	534448	87.795	ng		87
63) Azobenzene	10.539	77	1931065	68.051	ng		98
65) 4,6-Dinitro-2-methylph...	10.433	198	264375	80.845	ng		93
66) n-Nitrosodiphenylamine	10.498	169	1612401	68.242	ng		99
67) 4-Bromophenyl-phenylether	10.869	248	584450	71.922	ng		93
68) Hexachlorobenzene	10.927	284	613471	71.492	ng		95
69) Atrazine	11.027	200	436272	68.505	ng		97
70) Pentachlorophenol	11.116	266	432441	81.392	ng		95
71) Phenanthrene	11.345	178	2600432	65.952	ng		99
72) Anthracene	11.398	178	2632502	65.363	ng		97
73) Carbazole	11.551	167	2419878	67.293	ng		99
74) Di-n-butylphthalate	11.892	149	2653107	69.445	ng		98
75) Fluoranthene	12.533	202	2737292	65.722	ng		96
77) Benzidine	12.657	184	576195	68.096	ng		97
78) Pyrene	12.763	202	2801821	83.069	ng		96
80) Butylbenzylphthalate	13.392	149	1021323	89.549	ng	#	92
81) Benzo(a)anthracene	13.951	228	2108277	75.642	ng		99
82) 3,3'-Dichlorobenzidine	13.921	252	597724	73.985	ng		98
83) Chrysene	13.992	228	2052055	75.570	ng		98
84) Bis(2-ethylhexyl)phtha...	13.957	149	1017296	75.795	ng		98
85) Di-n-octyl phthalate	14.574	149	1706811	83.624	ng		96
87) Indeno(1,2,3-cd)pyrene	16.892	276	2189365	86.648	ng	#	91
88) Benzo(b)fluoranthene	14.998	252	1919044	73.239	ng	#	96
89) Benzo(k)fluoranthene	15.027	252	1826804	69.987	ng	#	98
90) Benzo(a)pyrene	15.362	252	1846527	75.583	ng	#	97
91) Dibenzo(a,h)anthracene	16.927	278	1774780	86.914	ng	#	96
92) Benzo(g,h,i)perylene	17.350	276	1870429	89.797	ng	#	93

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

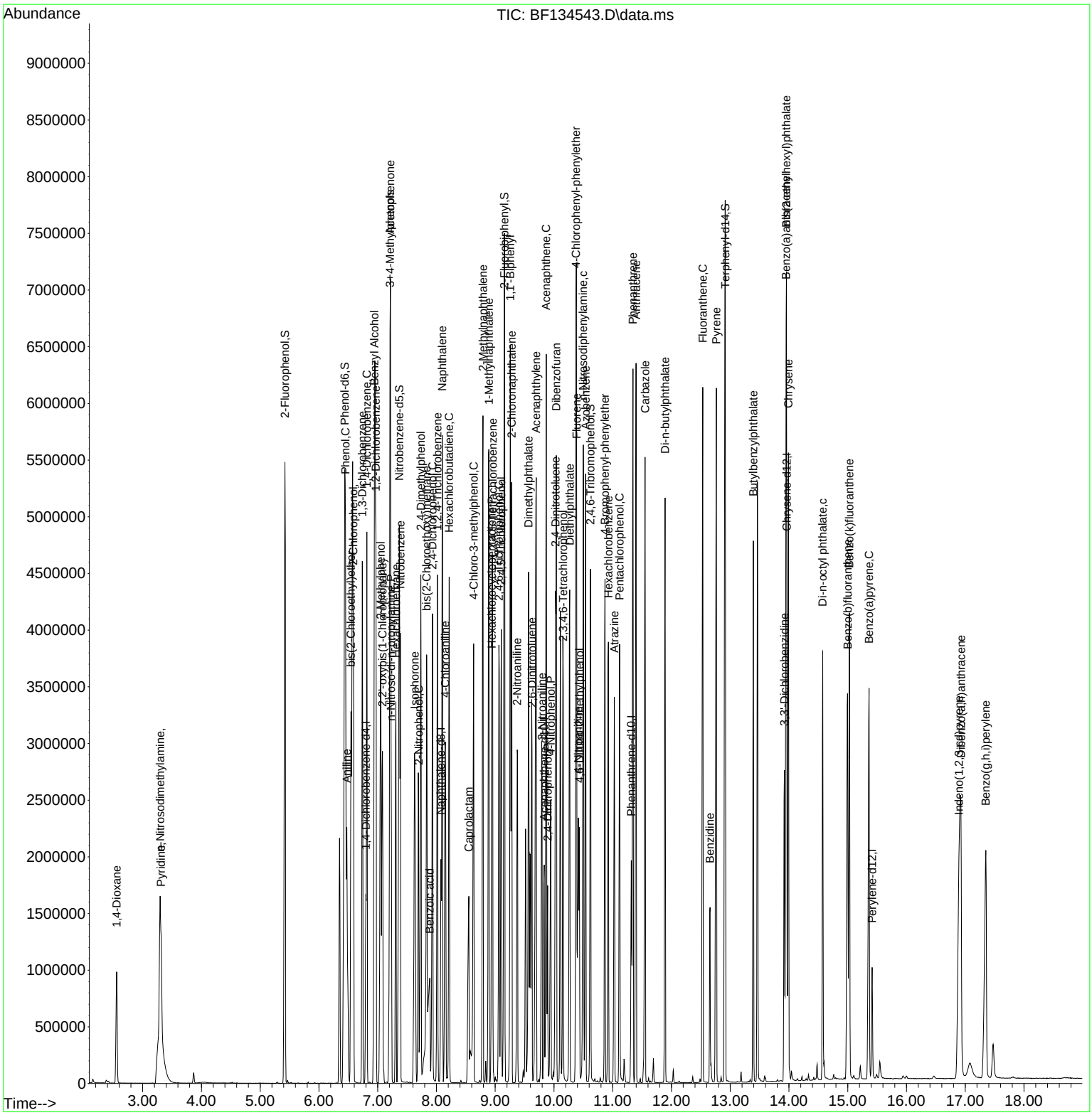
ICAL Form

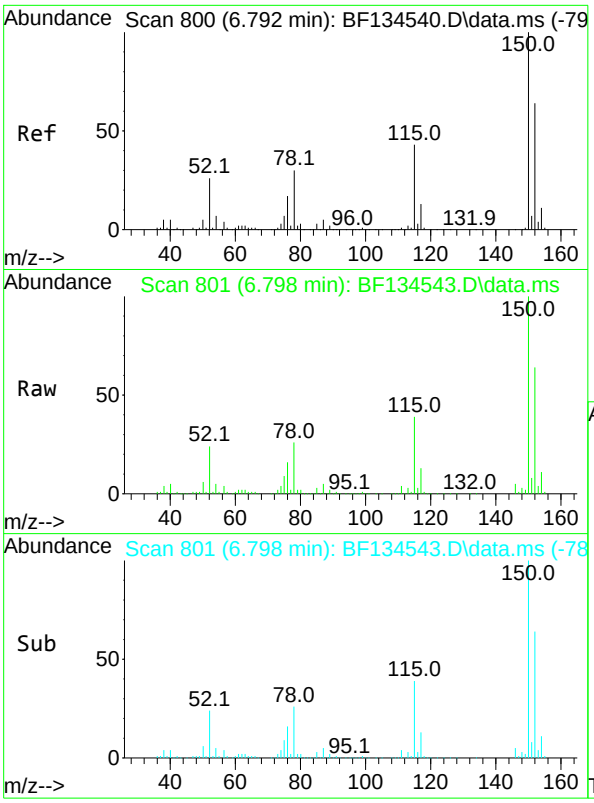
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080123\
Data File : BF134543.D
Acq On : 01 Aug 2023 11:47
Operator : CG\JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 02 02:17:18 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 02 02:08:18 2023
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

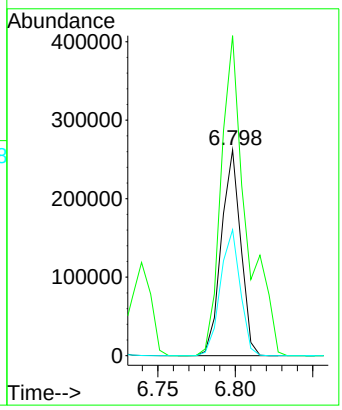




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.798 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF134543.D
Acq: 01 Aug 2023 11:47

Tgt Ion:152 Resp: 22799

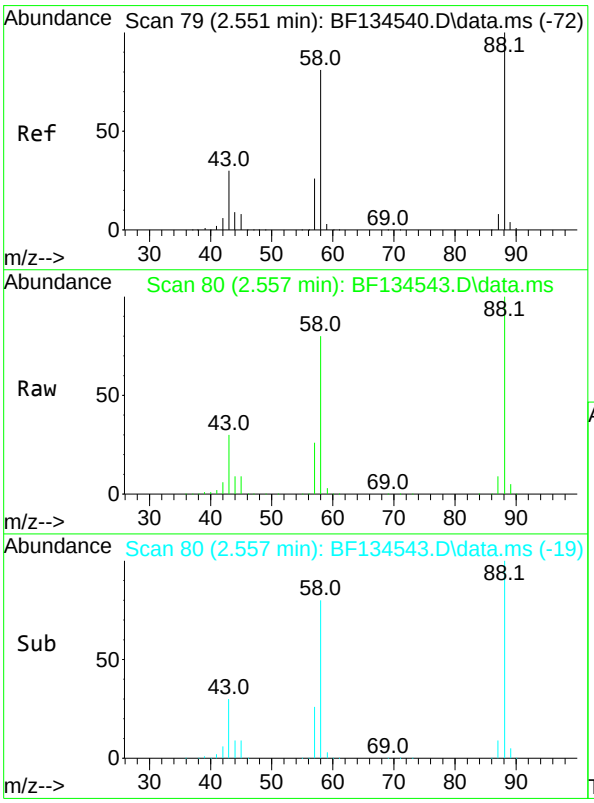
Ion	Ratio	Lower	Upper
152	100		
150	155.5	128.3	192.5
115	61.2	52.4	78.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

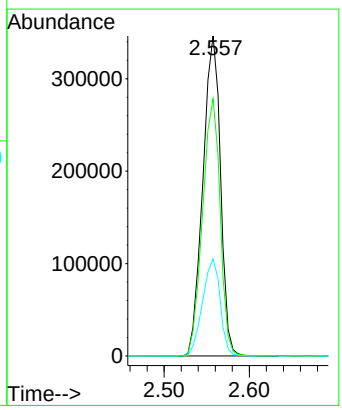
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

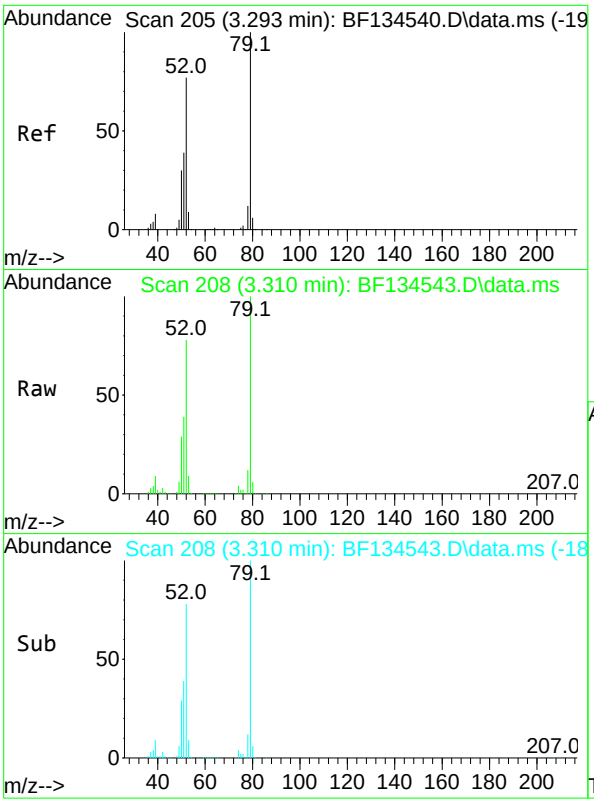


#2
1,4-Dioxane
Concen: 72.128 ng
RT: 2.557 min Scan# 80
Delta R.T. 0.006 min
Lab File: BF134543.D
Acq: 01 Aug 2023 11:47

Tgt Ion: 88 Resp: 497742

Ion	Ratio	Lower	Upper
88	100		
58	80.0	65.1	97.7
43	30.3	30.3	45.5#

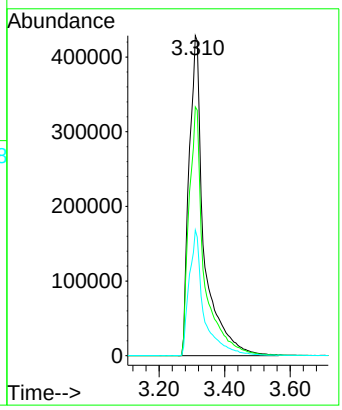




#3
Pyridine
Concen: 72.770 ng
RT: 3.310 min Scan# 2
Delta R.T. 0.018 min
Lab File: BF134543.D
Acq: 01 Aug 2023 11:47

Tgt Ion: 79 Resp: 136075

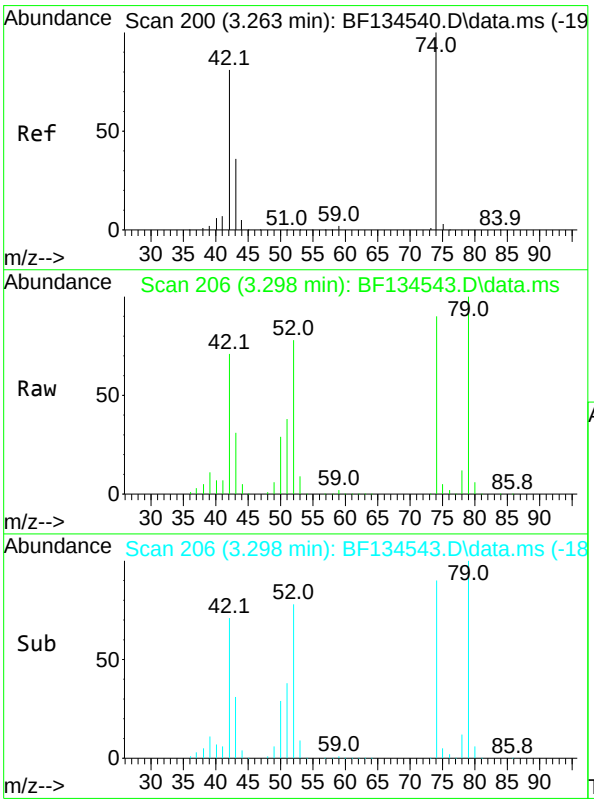
Ion	Ratio	Lower	Upper
79	100		
52	77.8	66.6	100.0
51	39.3	36.5	54.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

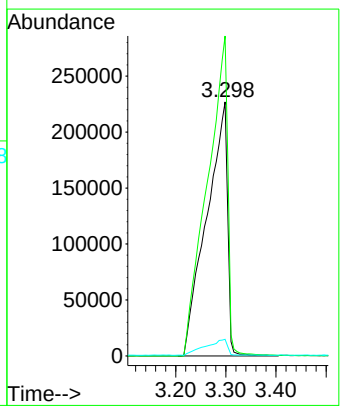
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

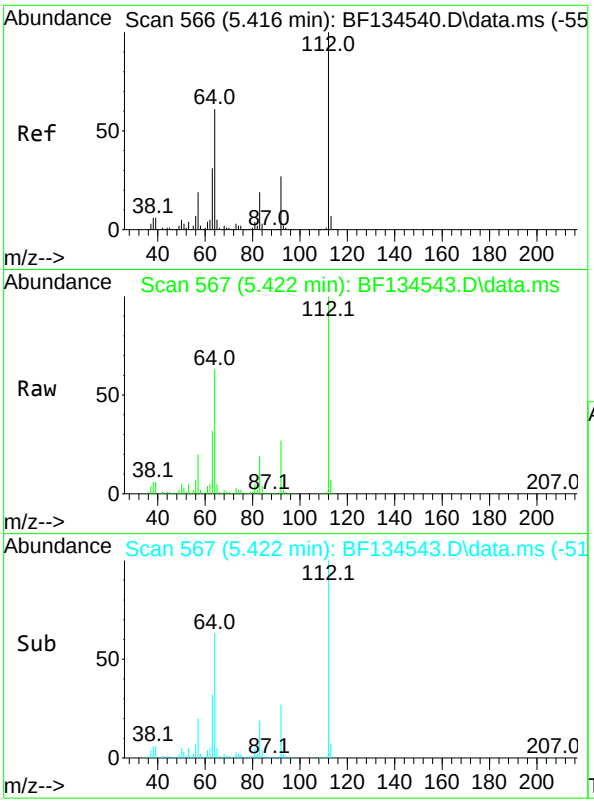


#4
n-Nitrosodimethylamine
Concen: 73.338 ng
RT: 3.298 min Scan# 206
Delta R.T. 0.035 min
Lab File: BF134543.D
Acq: 01 Aug 2023 11:47

Tgt Ion: 42 Resp: 655256

Ion	Ratio	Lower	Upper
42	100		
74	125.9	72.2	108.4#
44	6.6	5.4	8.0

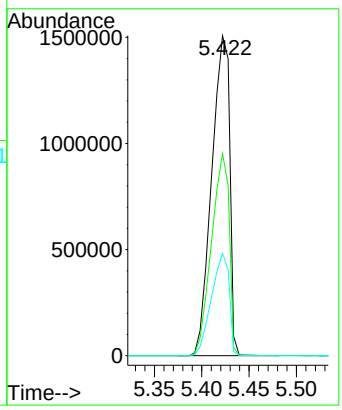




#5
2-Fluorophenol
Concen: 132.280 ng
RT: 5.422 min Scan# 5
Delta R.T. 0.006 min
Lab File: BF134543.D
Acq: 01 Aug 2023 11:47

Tgt Ion:112 Resp: 198402

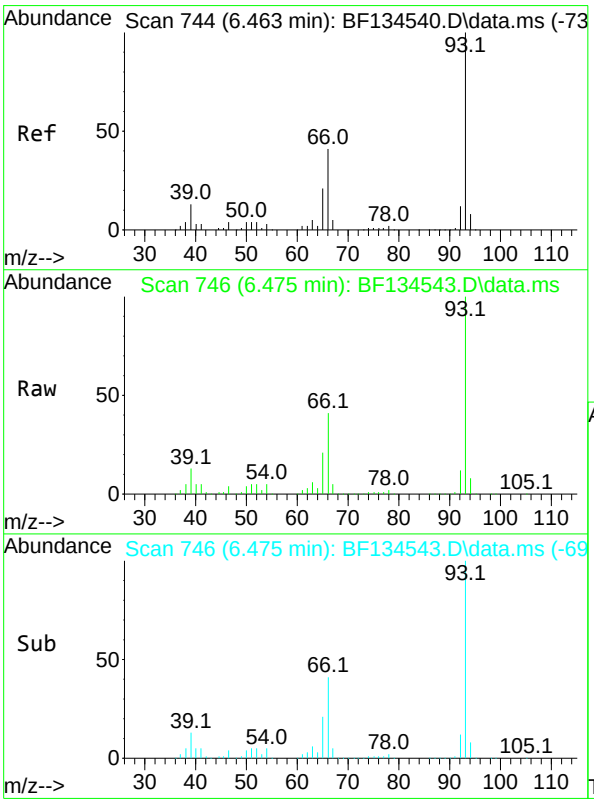
Ion	Ratio	Lower	Upper
112	100		
64	63.2	44.9	67.3
63	32.0	25.4	38.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

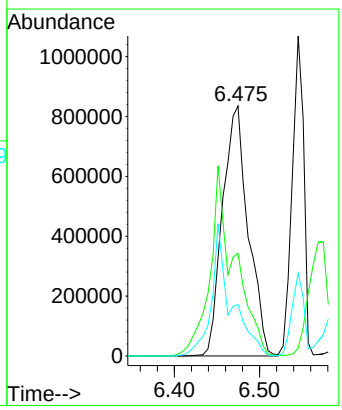
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

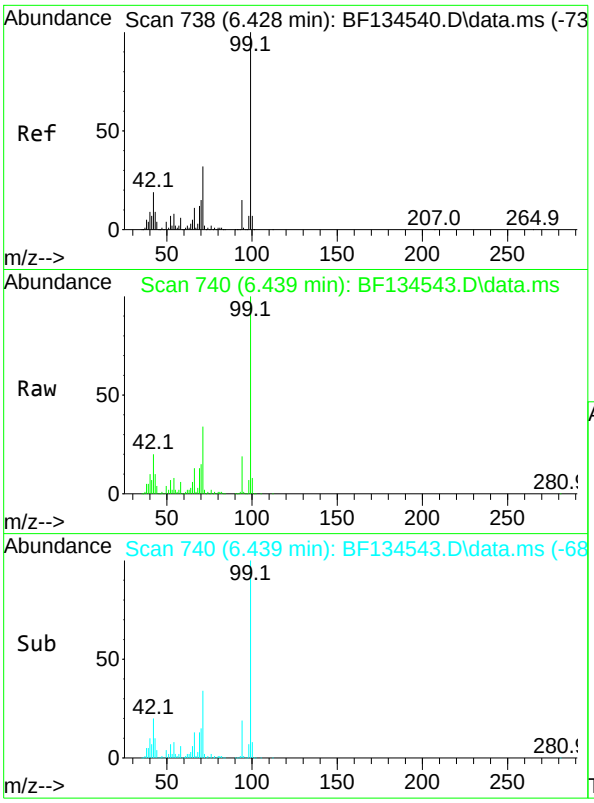


#6
Aniline
Concen: 69.678 ng
RT: 6.475 min Scan# 746
Delta R.T. 0.012 min
Lab File: BF134543.D
Acq: 01 Aug 2023 11:47

Tgt Ion: 93 Resp: 1752238

Ion	Ratio	Lower	Upper
93	100		
66	41.0	36.8	55.2
65	20.5	19.4	29.0

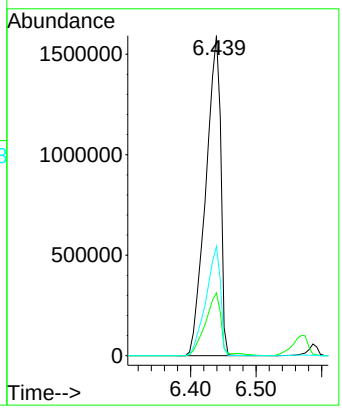




#7
Phenol-d6
Concen: 131.460 ng
RT: 6.439 min Scan# 7
Delta R.T. 0.012 min
Lab File: BF134543.D
Acq: 01 Aug 2023 11:47

Tgt Ion: 99 Resp: 252046

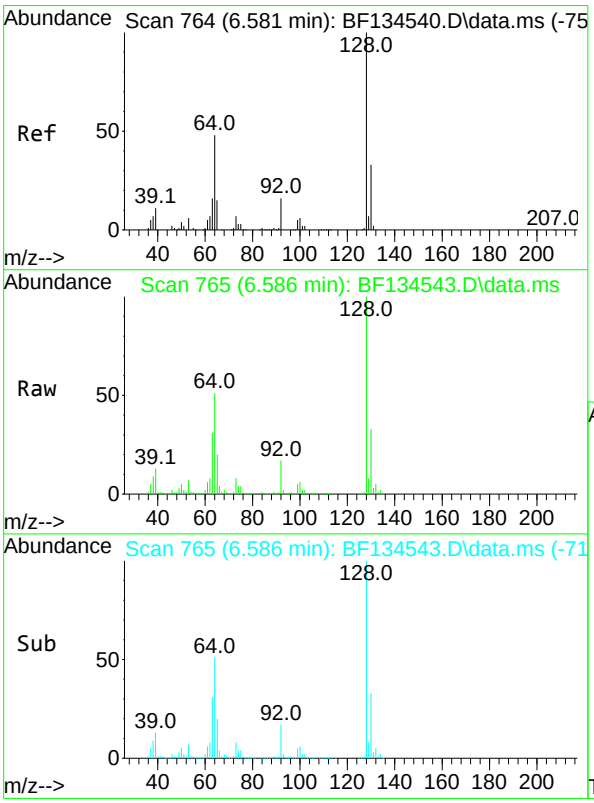
Ion	Ratio	Lower	Upper
99	100		
42	19.6	18.7	28.1
71	34.2	36.4	54.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

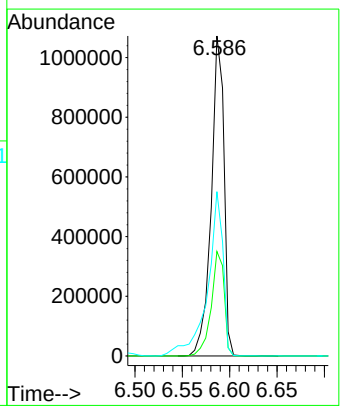
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

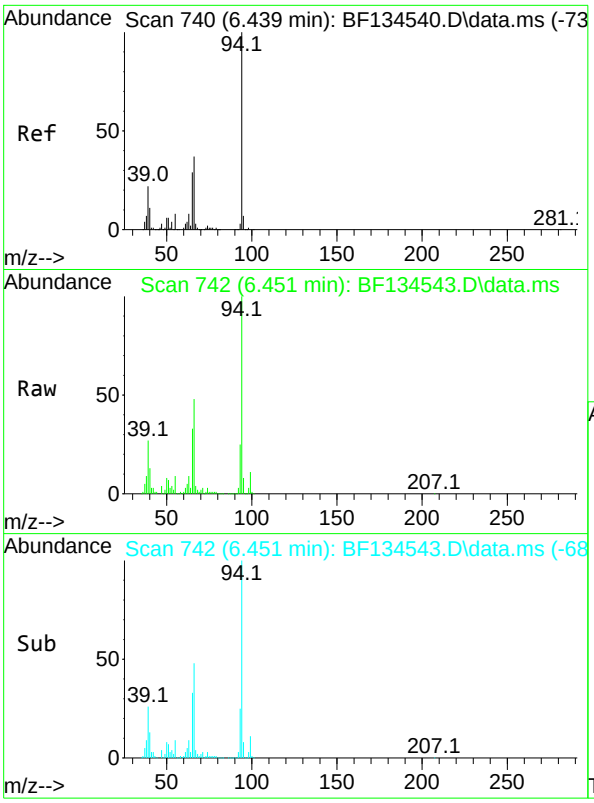


#8
2-Chlorophenol
Concen: 66.202 ng
RT: 6.586 min Scan# 765
Delta R.T. 0.006 min
Lab File: BF134543.D
Acq: 01 Aug 2023 11:47

Tgt Ion:128 Resp: 1001633

Ion	Ratio	Lower	Upper
128	100		
130	32.6	11.1	51.1
64	51.3	31.9	71.9

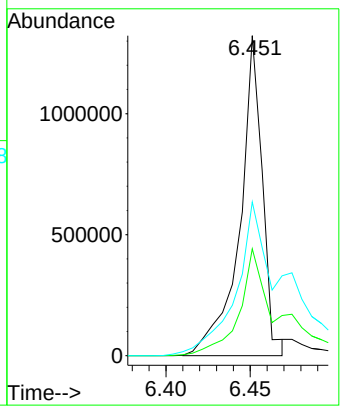




#10
Phenol
Concen: 65.439 ng m
RT: 6.451 min Scan# 7
Delta R.T. 0.012 min
Lab File: BF134543.D
Acq: 01 Aug 2023 11:47

Tgt Ion: 94 Resp: 123647

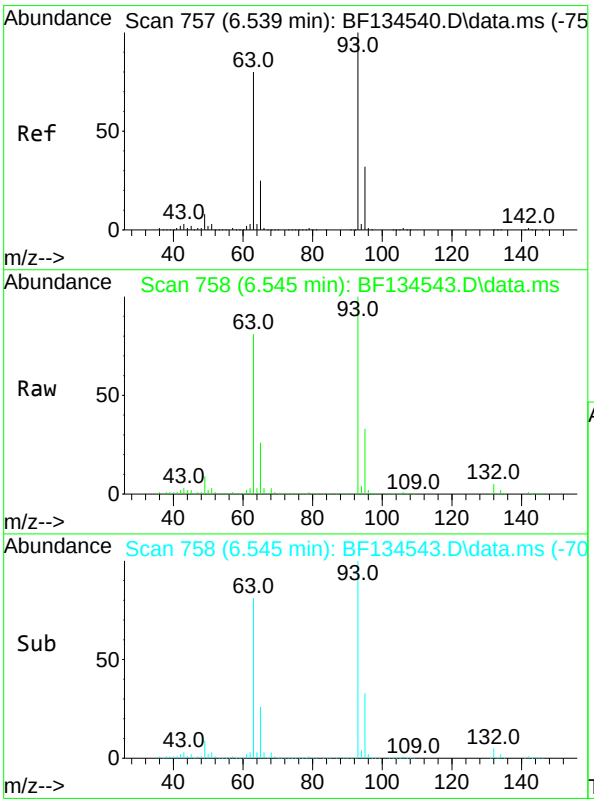
Ion	Ratio	Lower	Upper
94	100		
65	33.4	17.8	57.8
66	48.1	35.2	75.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

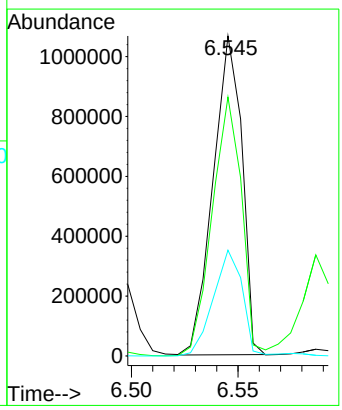
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

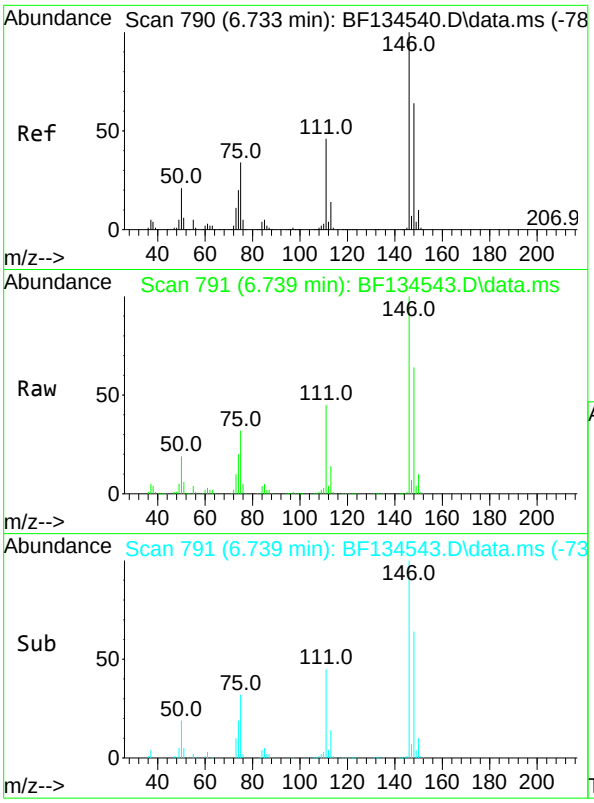


#11
bis(2-Chloroethyl)ether
Concen: 66.813 ng
RT: 6.545 min Scan# 758
Delta R.T. 0.006 min
Lab File: BF134543.D
Acq: 01 Aug 2023 11:47

Tgt Ion: 93 Resp: 1002822

Ion	Ratio	Lower	Upper
93	100		
63	80.9	68.4	108.4
95	33.0	12.4	52.4

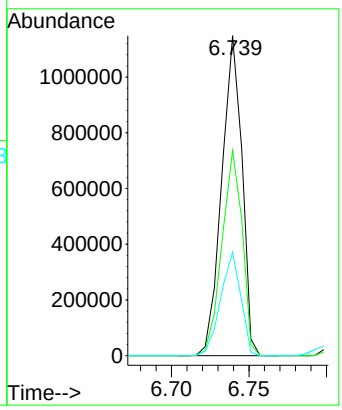




#12
1,3-Dichlorobenzene
Concen: 66.656 ng
RT: 6.739 min Scan# 7
Delta R.T. 0.006 min
Lab File: BF134543.D
Acq: 01 Aug 2023 11:47

Tgt Ion:146 Resp: 104343

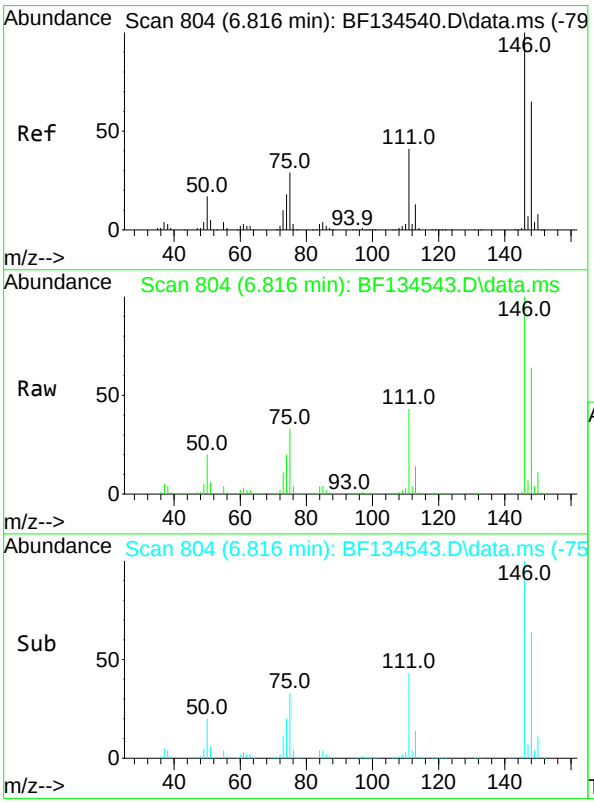
Ion	Ratio	Lower	Upper
146	100		
148	64.1	49.7	74.5
75	32.3	29.5	44.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

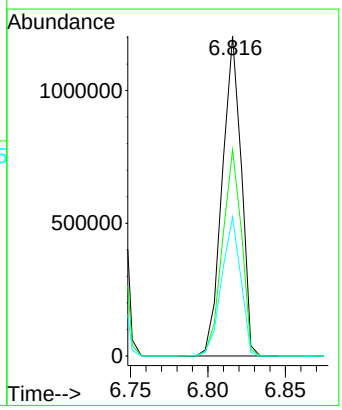
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

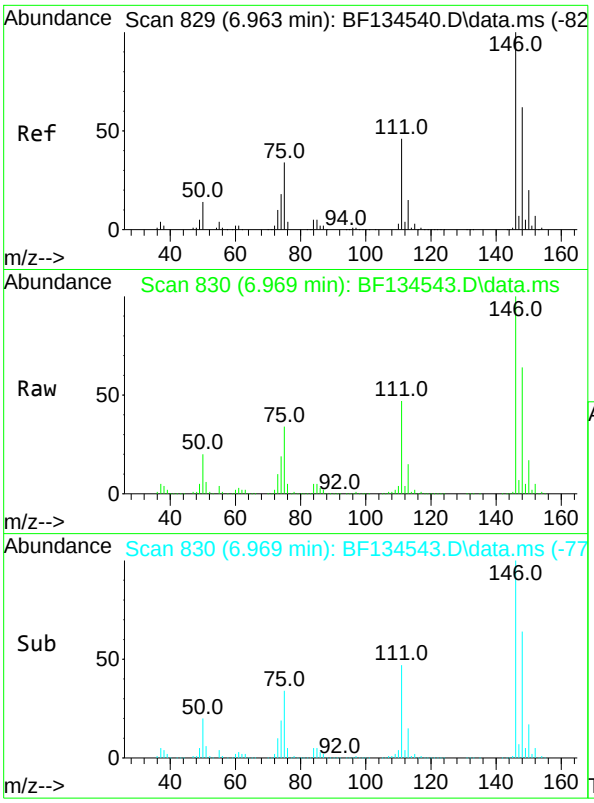


#13
1,4-Dichlorobenzene
Concen: 65.556 ng
RT: 6.816 min Scan# 804
Delta R.T. 0.000 min
Lab File: BF134543.D
Acq: 01 Aug 2023 11:47

Tgt Ion:146 Resp: 1028490

Ion	Ratio	Lower	Upper
146	100		
148	64.5	51.3	76.9
111	43.5	36.6	55.0

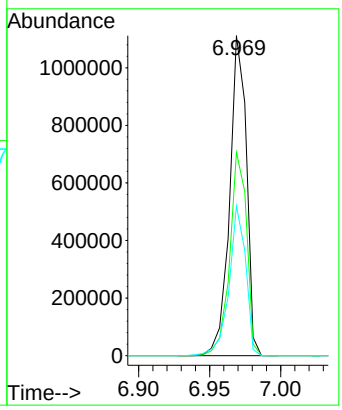




#14
1,2-Dichlorobenzene
Concen: 62.498 ng
RT: 6.969 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF134543.D
Acq: 01 Aug 2023 11:47

Tgt Ion:146 Resp: 91358

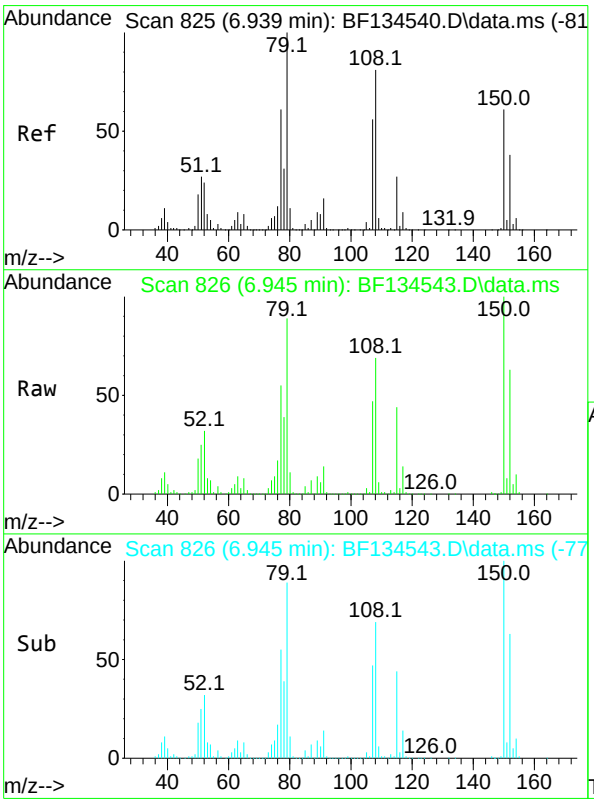
Ion	Ratio	Lower	Upper
146	100		
148	63.5	51.2	76.8
111	46.8	39.9	59.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

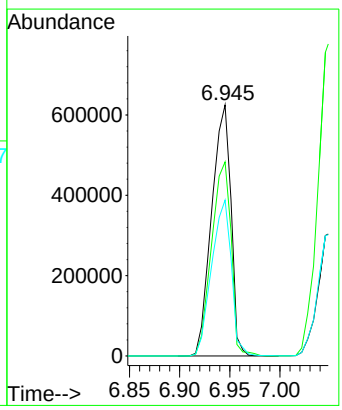
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

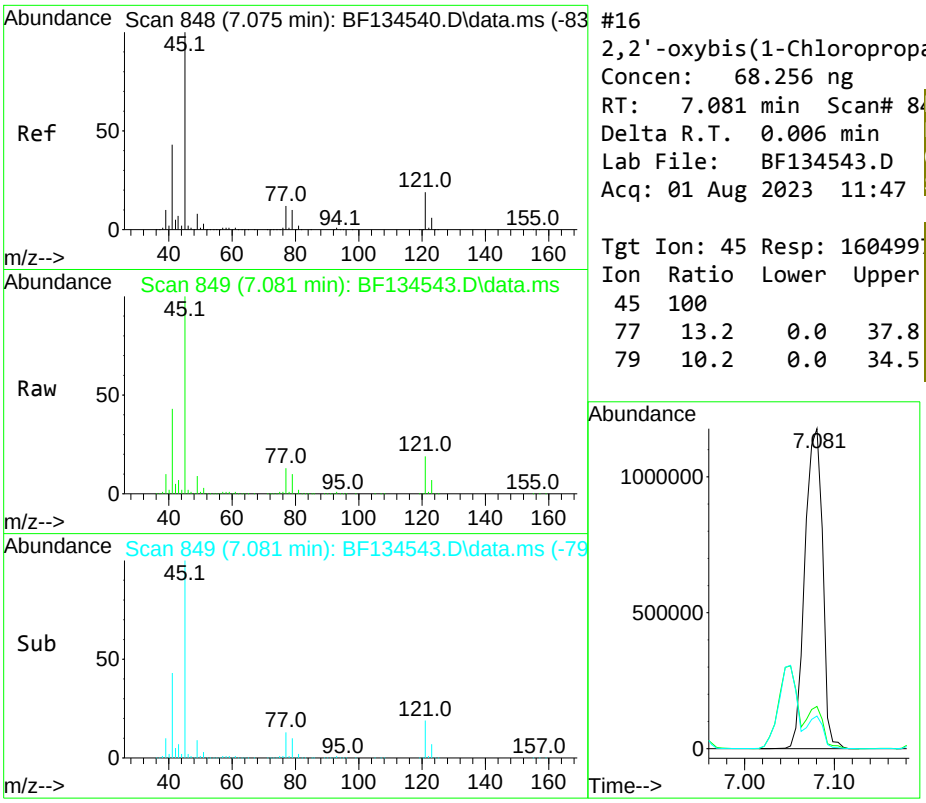


#15
Benzyl Alcohol
Concen: 63.133 ng
RT: 6.945 min Scan# 826
Delta R.T. 0.006 min
Lab File: BF134543.D
Acq: 01 Aug 2023 11:47

Tgt Ion: 79 Resp: 835044

Ion	Ratio	Lower	Upper
79	100		
108	77.3	56.3	84.5
77	62.1	50.6	76.0





#16
2,2'-oxybis(1-Chloropropane)
Concen: 68.256 ng
RT: 7.081 min Scan# 84
Delta R.T. 0.006 min
Lab File: BF134543.D
Acq: 01 Aug 2023 11:47

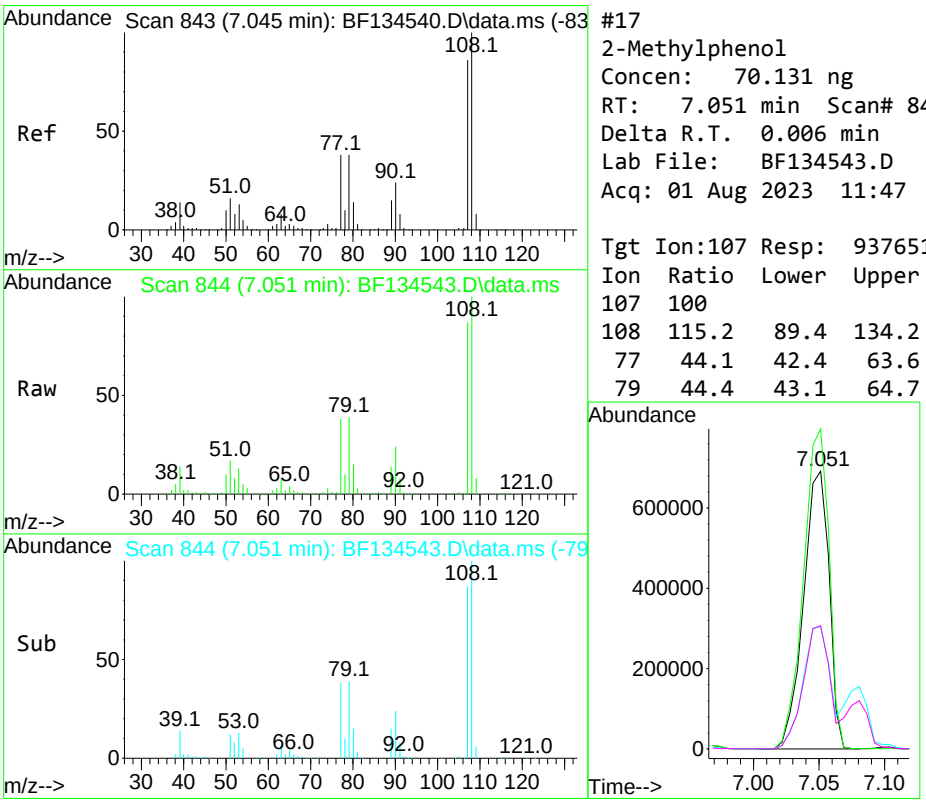
Tgt Ion: 45 Resp: 160499

Ion	Ratio	Lower	Upper
45	100		
77	13.2	0.0	37.8
79	10.2	0.0	34.5

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

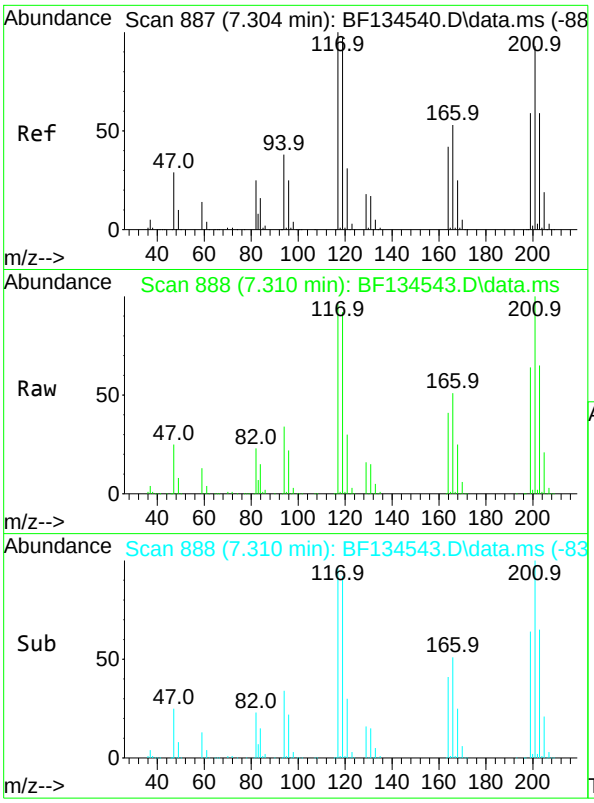
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023



#17
2-Methylphenol
Concen: 70.131 ng
RT: 7.051 min Scan# 844
Delta R.T. 0.006 min
Lab File: BF134543.D
Acq: 01 Aug 2023 11:47

Tgt Ion:107 Resp: 937651

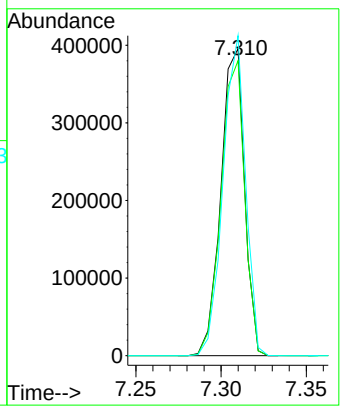
Ion	Ratio	Lower	Upper
107	100		
108	115.2	89.4	134.2
77	44.1	42.4	63.6
79	44.4	43.1	64.7



#18
Hexachloroethane
Concen: 69.306 ng
RT: 7.310 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF134543.D
Acq: 01 Aug 2023 11:47

Tgt Ion:117 Resp: 38161

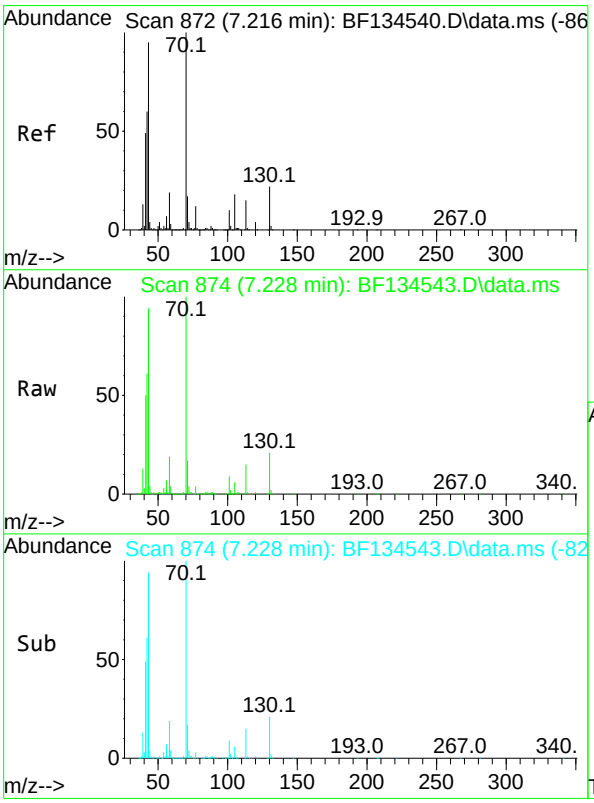
Ion	Ratio	Lower	Upper
117	100		
119	96.1	75.8	113.8
201	104.2	73.6	110.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

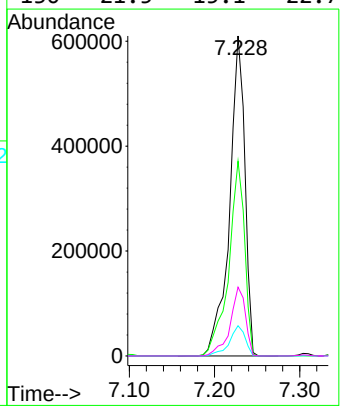
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

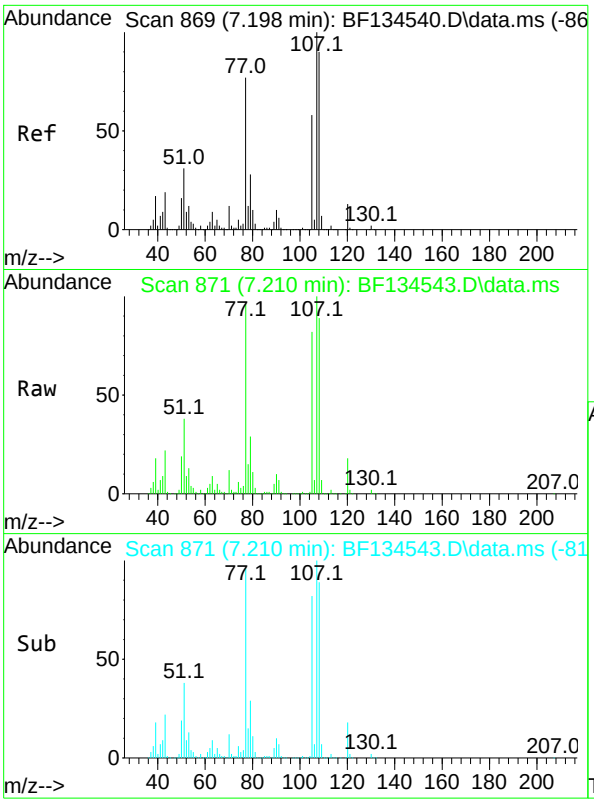


#19
n-Nitroso-di-n-propylamine
Concen: 66.593 ng
RT: 7.228 min Scan# 874
Delta R.T. 0.012 min
Lab File: BF134543.D
Acq: 01 Aug 2023 11:47

Tgt Ion: 70 Resp: 764444

Ion	Ratio	Lower	Upper
70	100		
42	60.8	54.7	82.1
101	9.5	8.2	12.2
130	21.5	15.1	22.7

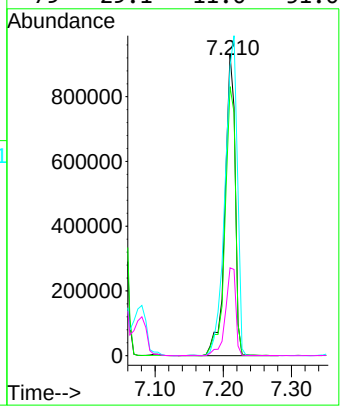




#20
3+4-Methylphenols
Concen: 60.026 ng
RT: 7.210 min Scan# 8
Delta R.T. 0.012 min
Lab File: BF134543.D
Acq: 01 Aug 2023 11:47

Tgt Ion:107 Resp: 96786

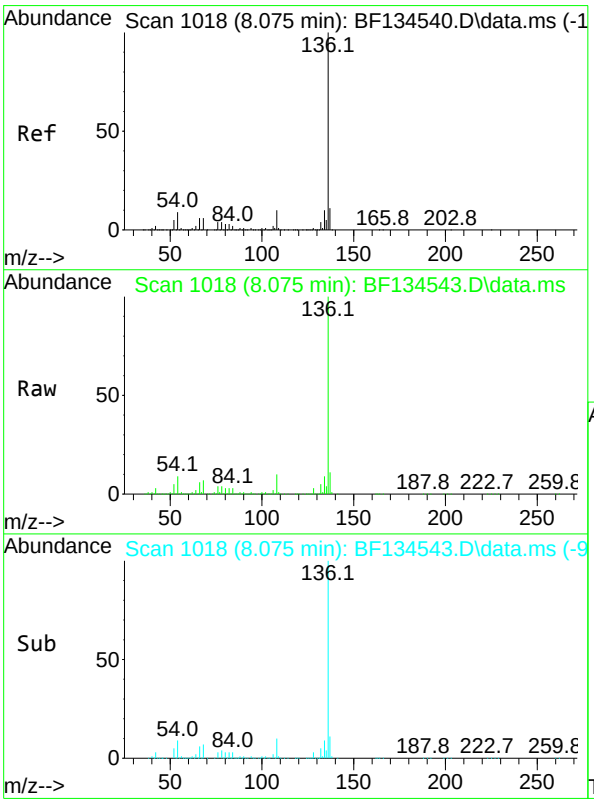
Ion	Ratio	Lower	Upper
107	100		
108	89.2	68.1	108.1
77	95.9	122.1	162.1#
79	29.1	11.0	51.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

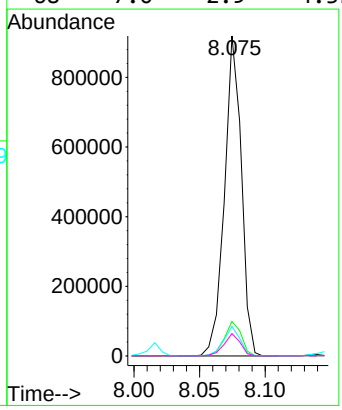
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

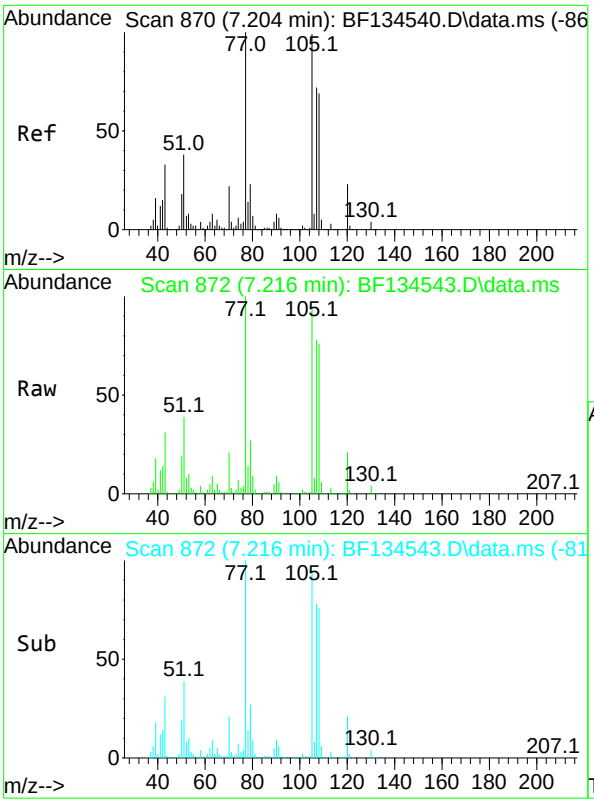


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.075 min Scan# 1018
Delta R.T. 0.000 min
Lab File: BF134543.D
Acq: 01 Aug 2023 11:47

Tgt Ion:136 Resp: 822174

Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.4	12.6
54	9.2	5.2	7.8#
68	7.0	2.9	4.3#

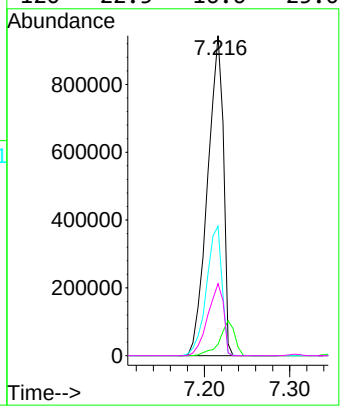




#22
Acetophenone
Concen: 63.962 ng
RT: 7.216 min Scan# 8
Delta R.T. 0.012 min
Lab File: BF134543.D
Acq: 01 Aug 2023 11:47

Tgt Ion:105 Resp: 121403

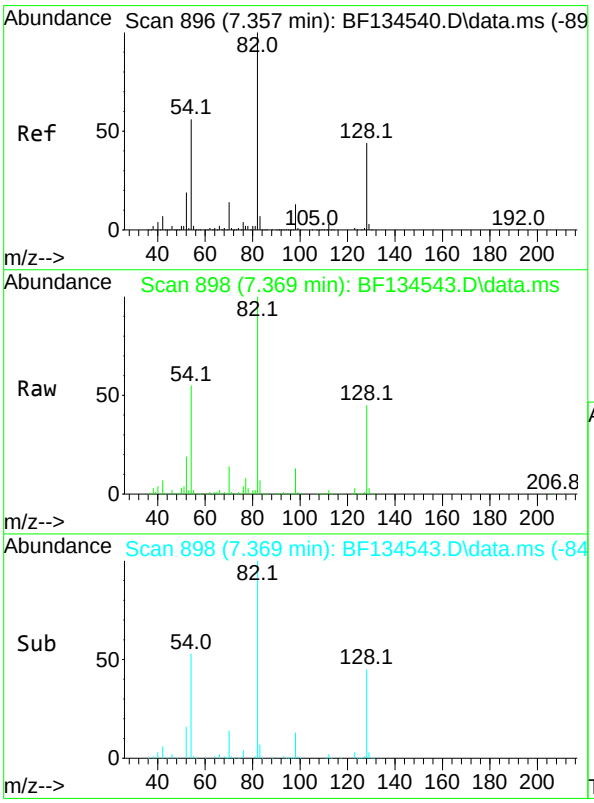
Ion	Ratio	Lower	Upper
105	100		
71	3.6	7.4	11.0#
51	40.5	36.4	54.6
120	22.5	16.6	25.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

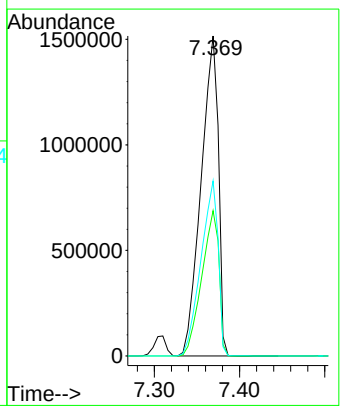
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

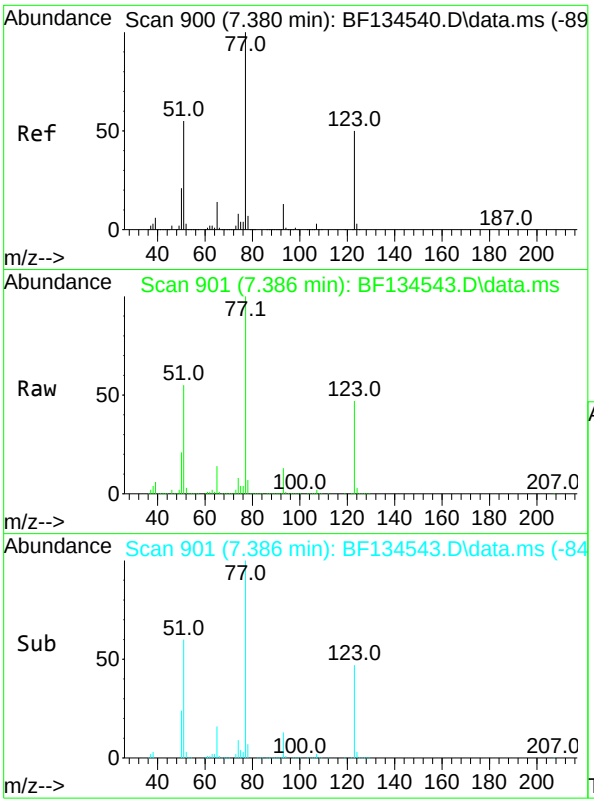


#23
Nitrobenzene-d5
Concen: 162.178 ng
RT: 7.369 min Scan# 898
Delta R.T. 0.012 min
Lab File: BF134543.D
Acq: 01 Aug 2023 11:47

Tgt Ion: 82 Resp: 2133664

Ion	Ratio	Lower	Upper
82	100		
128	45.4	34.3	51.5
54	54.7	43.8	65.6





#24
Nitrobenzene
Concen: 76.675 ng
RT: 7.386 min Scan# 9
Delta R.T. 0.006 min
Lab File: BF134543.D
Acq: 01 Aug 2023 11:47

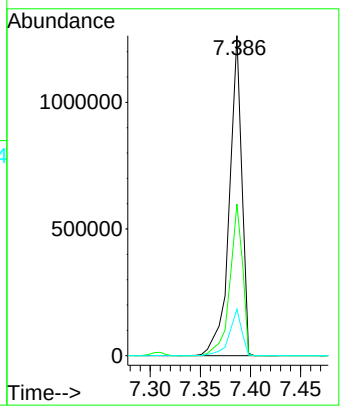
Tgt Ion: 77 Resp: 108981

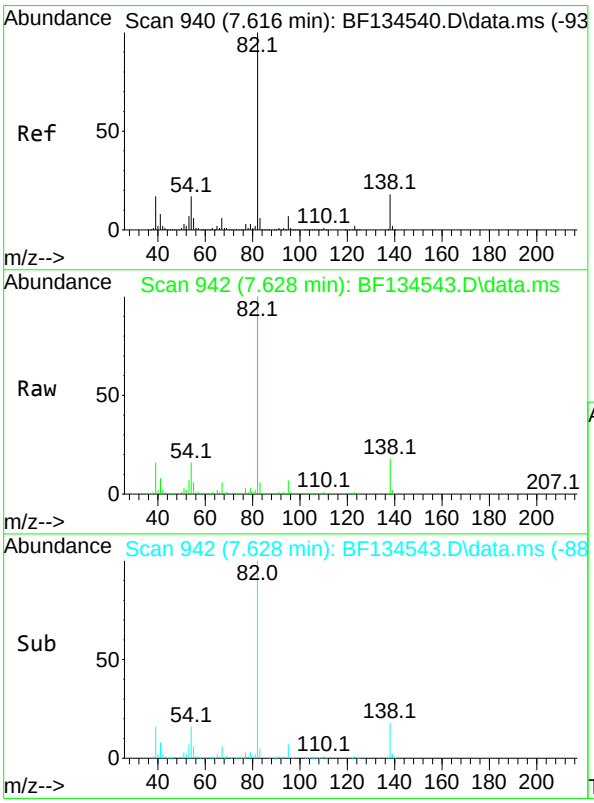
Ion	Ratio	Lower	Upper
77	100		
123	47.4	35.5	53.3
65	14.5	11.9	17.9

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

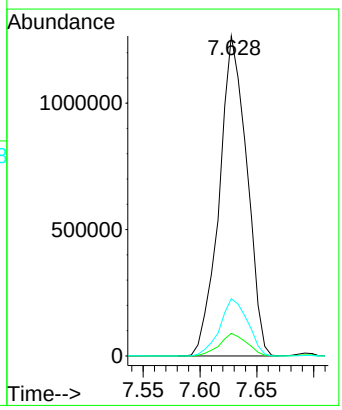


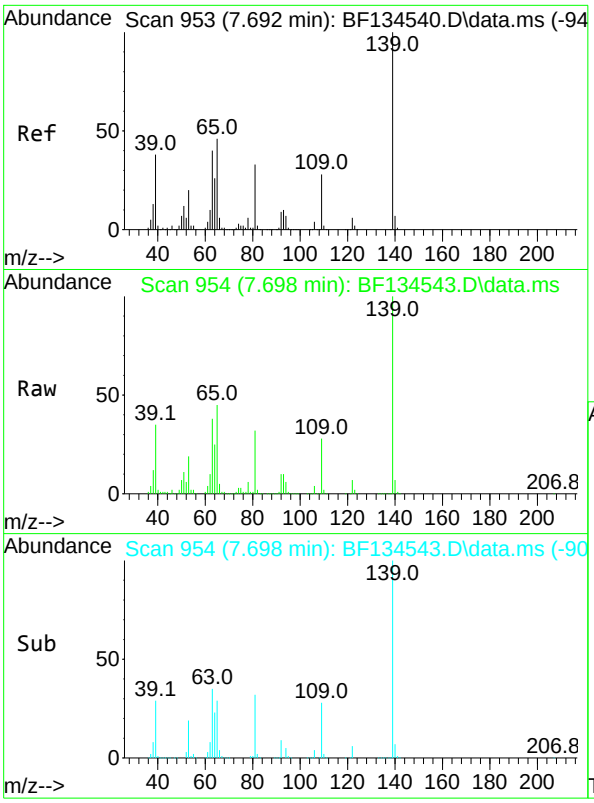


#25
Isophorone
Concen: 74.718 ng
RT: 7.628 min Scan# 942
Delta R.T. 0.012 min
Lab File: BF134543.D
Acq: 01 Aug 2023 11:47

Tgt Ion: 82 Resp: 2144057

Ion	Ratio	Lower	Upper
82	100		
95	7.0	6.0	9.0
138	17.9	14.6	22.0

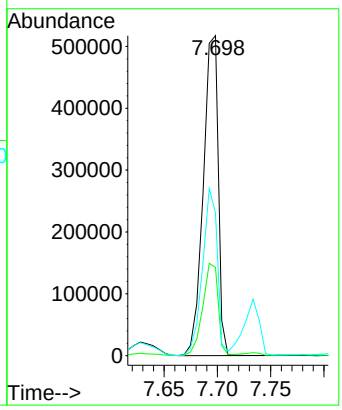




#26
2-Nitrophenol
Concen: 80.645 ng
RT: 7.698 min Scan# 9
Delta R.T. 0.006 min
Lab File: BF134543.D
Acq: 01 Aug 2023 11:47

Tgt Ion:139 Resp: 50965

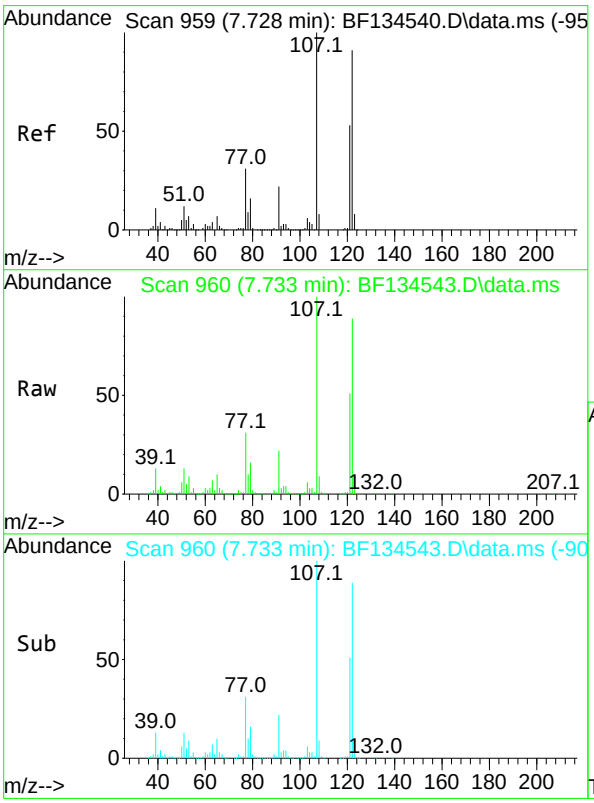
Ion	Ratio	Lower	Upper
139	100		
109	27.6	29.8	44.6#
65	44.6	45.4	68.2#



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

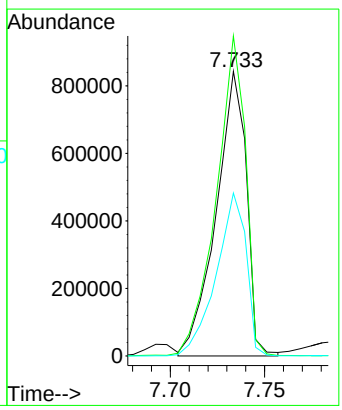
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

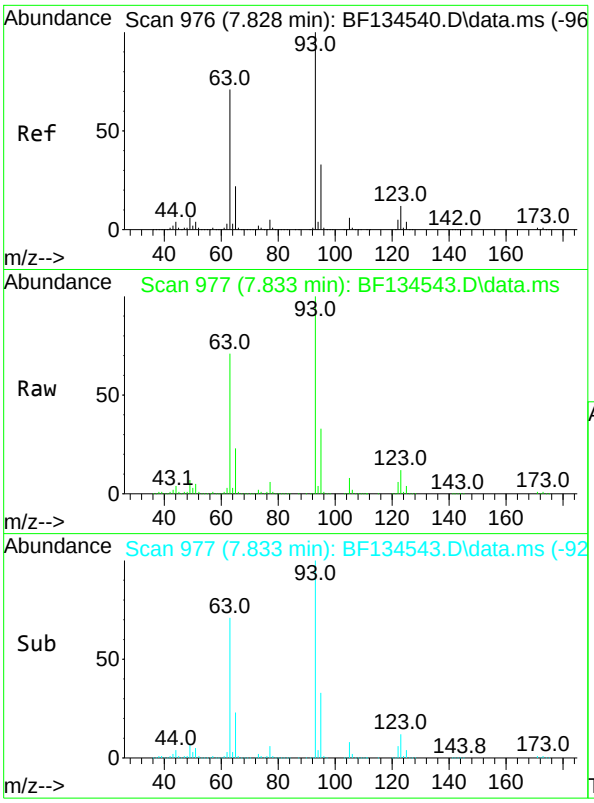


#27
2,4-Dimethylphenol
Concen: 73.311 ng m
RT: 7.733 min Scan# 960
Delta R.T. 0.005 min
Lab File: BF134543.D
Acq: 01 Aug 2023 11:47

Tgt Ion:122 Resp: 938644

Ion	Ratio	Lower	Upper
122	100		
107	112.4	106.7	160.1
121	57.2	49.0	73.6

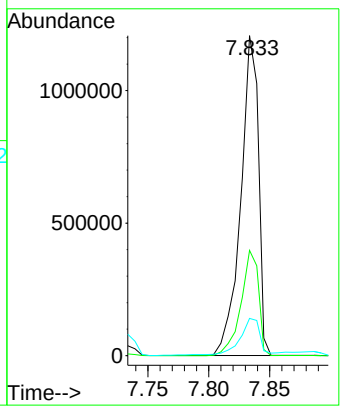




#28
bis(2-Chloroethoxy)methane
Concen: 71.000 ng
RT: 7.833 min Scan# 9
Delta R.T. 0.006 min
Lab File: BF134543.D
Acq: 01 Aug 2023 11:47

Tgt Ion: 93 Resp: 121874

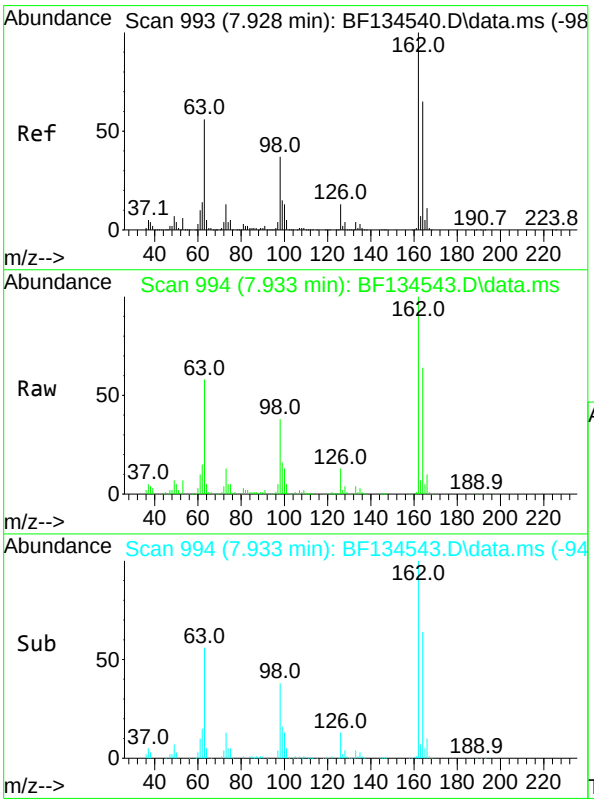
Ion	Ratio	Lower	Upper
93	100		
95	32.9	26.5	39.7
123	11.7	9.6	14.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

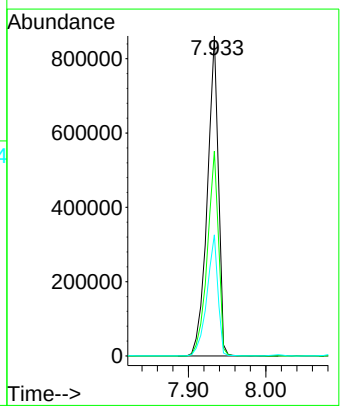
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

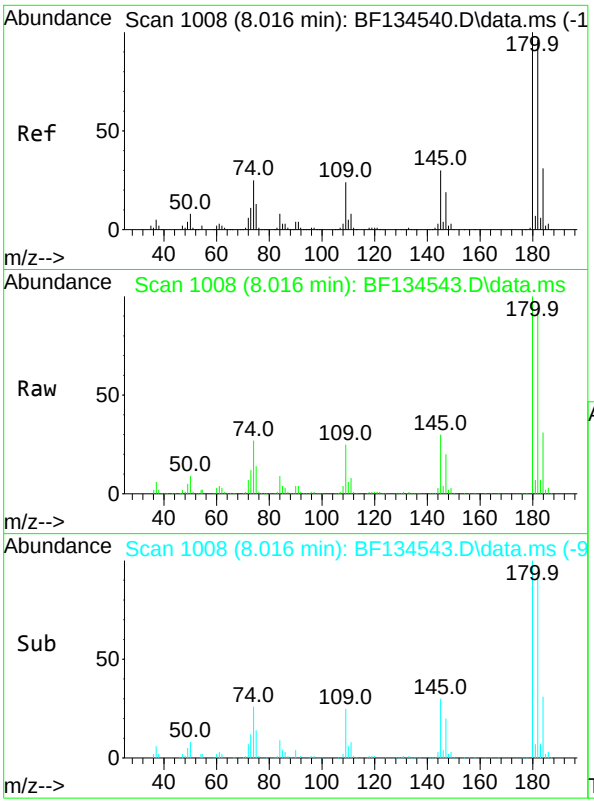


#29
2,4-Dichlorophenol
Concen: 73.791 ng
RT: 7.933 min Scan# 994
Delta R.T. 0.006 min
Lab File: BF134543.D
Acq: 01 Aug 2023 11:47

Tgt Ion:162 Resp: 857497

Ion	Ratio	Lower	Upper
162	100		
164	64.0	42.2	82.2
98	37.9	15.5	55.5

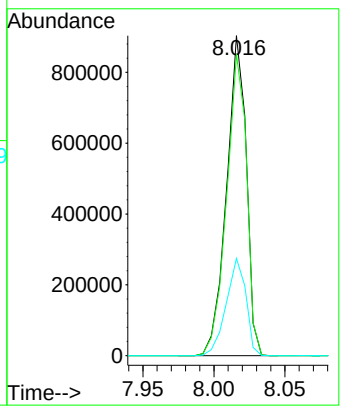




#30
1,2,4-Trichlorobenzene
Concen: 70.434 ng
RT: 8.016 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134543.D
Acq: 01 Aug 2023 11:47

Tgt Ion:180 Resp: 87281

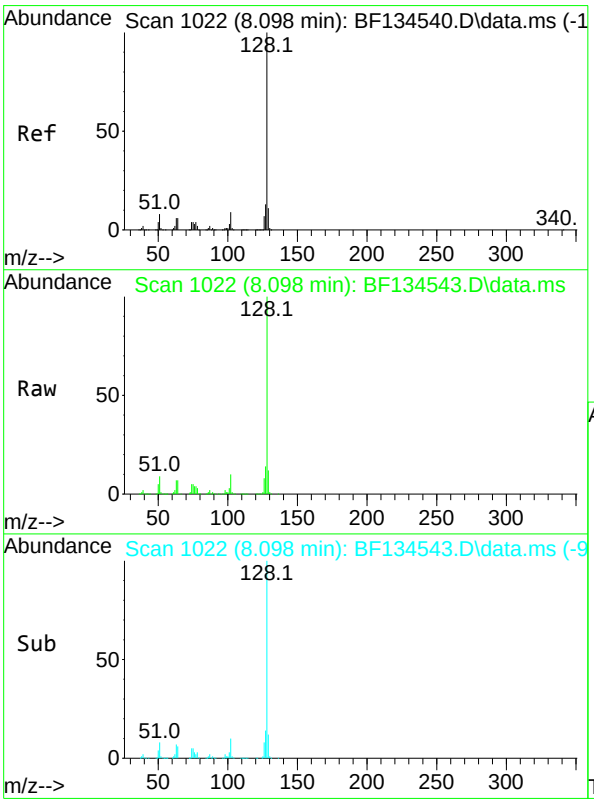
Ion	Ratio	Lower	Upper
180	100		
182	94.1	75.0	112.6
145	30.4	25.5	38.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

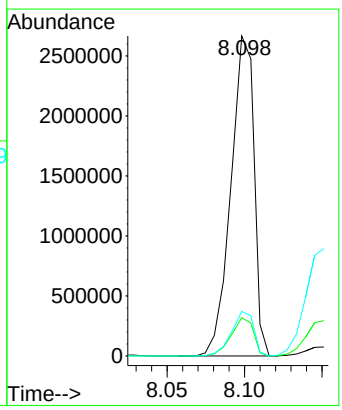
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

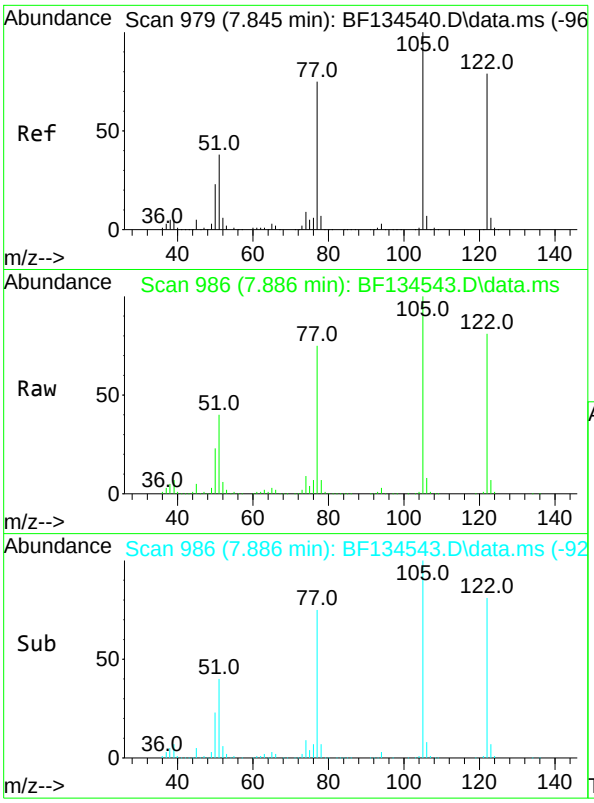


#31
Naphthalene
Concen: 66.965 ng
RT: 8.098 min Scan# 1022
Delta R.T. 0.000 min
Lab File: BF134543.D
Acq: 01 Aug 2023 11:47

Tgt Ion:128 Resp: 2767045

Ion	Ratio	Lower	Upper
128	100		
129	11.9	8.4	12.6
127	13.9	10.7	16.1

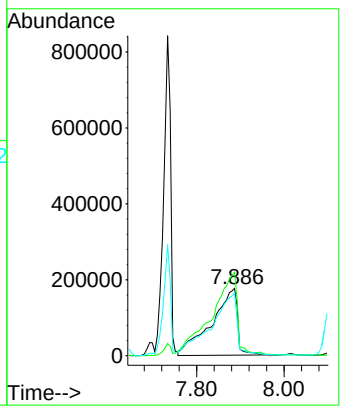




#32
Benzoic acid
Concen: 80.657 ng
RT: 7.886 min Scan# 9
Delta R.T. 0.041 min
Lab File: BF134543.D
Acq: 01 Aug 2023 11:47

Tgt Ion:122 Resp: 72711

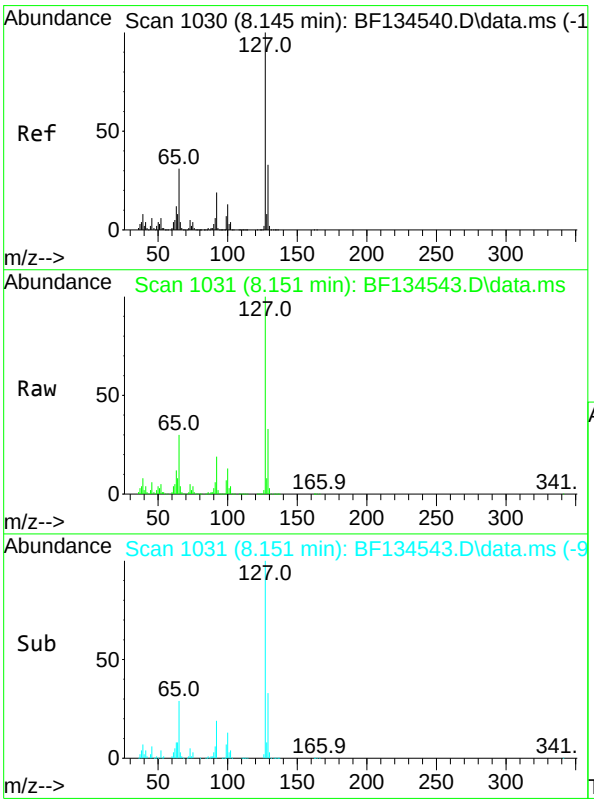
Ion	Ratio	Lower	Upper
122	100		
105	124.1	87.5	127.5
77	93.7	71.4	111.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

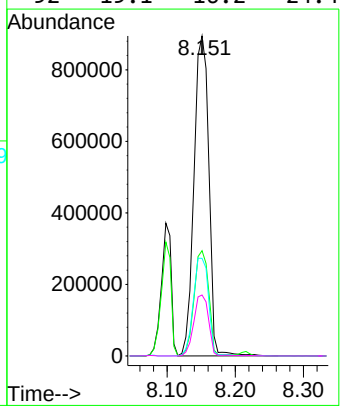
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

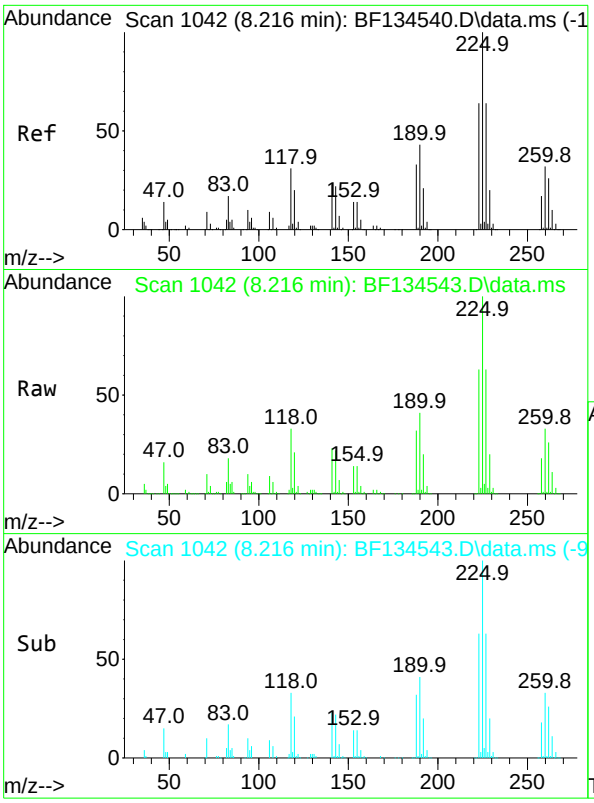


#33
4-Chloroaniline
Concen: 73.118 ng
RT: 8.151 min Scan# 1031
Delta R.T. 0.006 min
Lab File: BF134543.D
Acq: 01 Aug 2023 11:47

Tgt Ion:127 Resp: 1346207

Ion	Ratio	Lower	Upper
127	100		
129	32.9	25.6	38.4
65	30.5	25.4	38.0
92	19.1	16.2	24.4

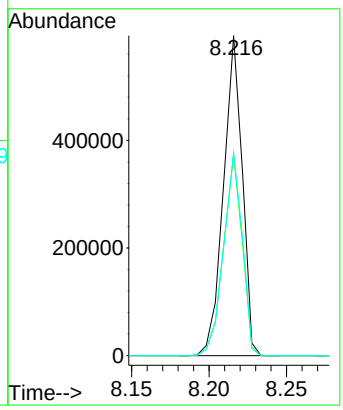




#34
Hexachlorobutadiene
Concen: 69.851 ng
RT: 8.216 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134543.D
Acq: 01 Aug 2023 11:47

Tgt Ion:225 Resp: 49928

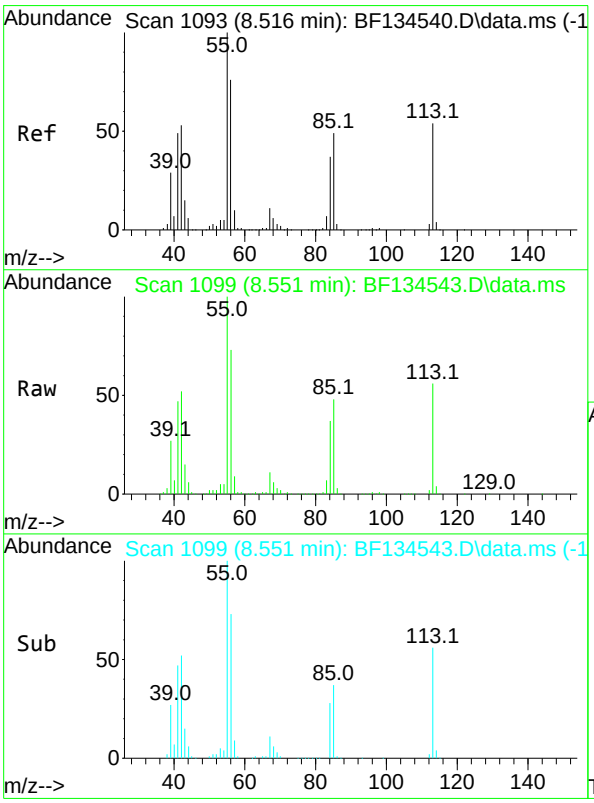
Ion	Ratio	Lower	Upper
225	100		
223	62.8	48.2	72.4
227	63.4	48.5	72.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

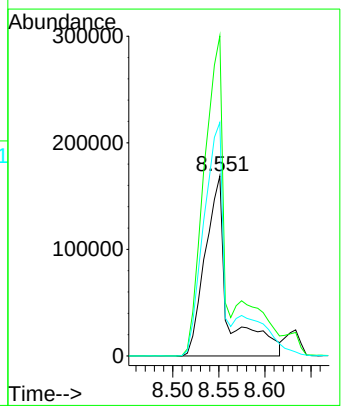
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

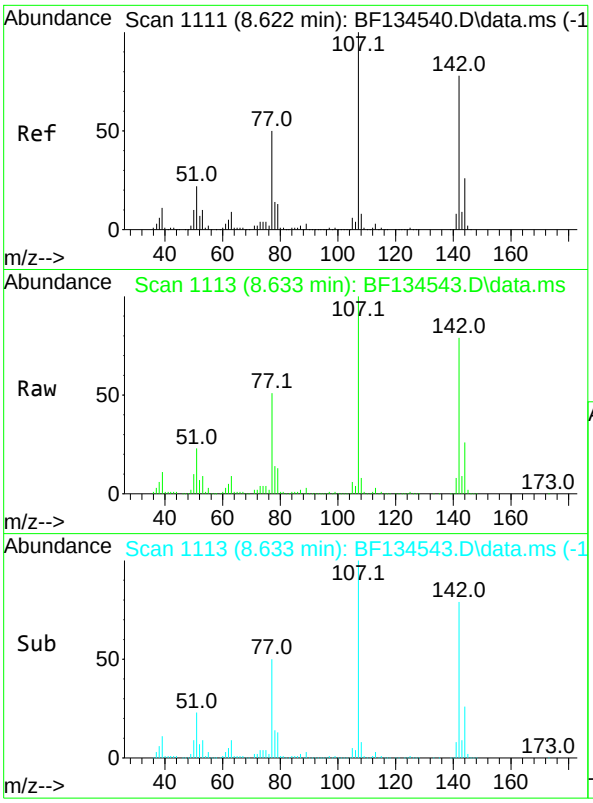


#35
Caprolactam
Concen: 79.261 ng m
RT: 8.551 min Scan# 1099
Delta R.T. 0.035 min
Lab File: BF134543.D
Acq: 01 Aug 2023 11:47

Tgt Ion:113 Resp: 297259

Ion	Ratio	Lower	Upper
113	100		
55	177.8	161.5	201.5
56	129.7	117.8	157.8

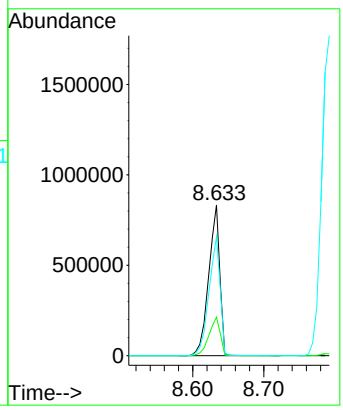




#36
4-Chloro-3-methylphenol
Concen: 73.529 ng
RT: 8.633 min Scan# 11
Delta R.T. 0.012 min
Lab File: BF134543.D
Acq: 01 Aug 2023 11:47

Tgt Ion:107 Resp: 90489

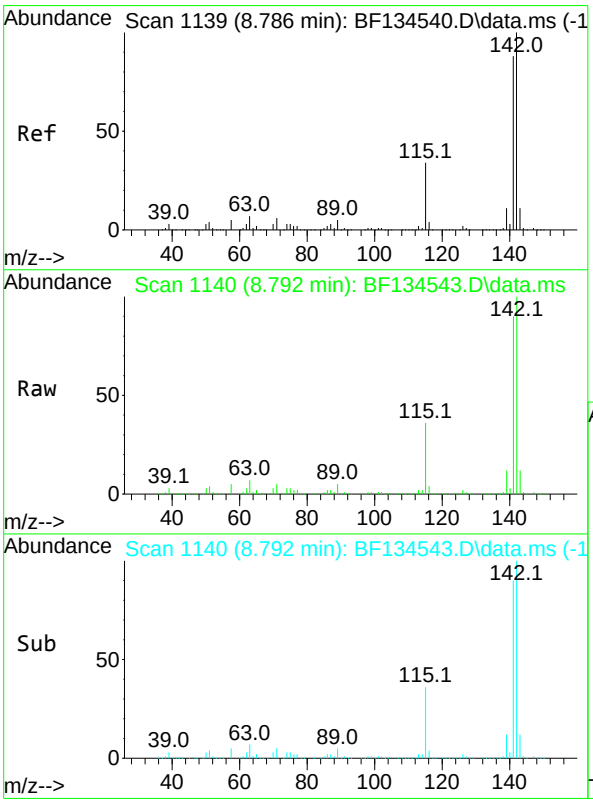
Ion	Ratio	Lower	Upper
107	100		
144	25.6	19.6	29.4
142	78.9	57.7	86.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

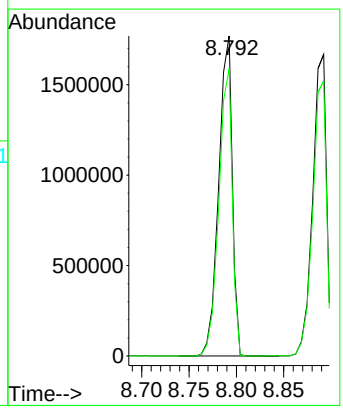
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

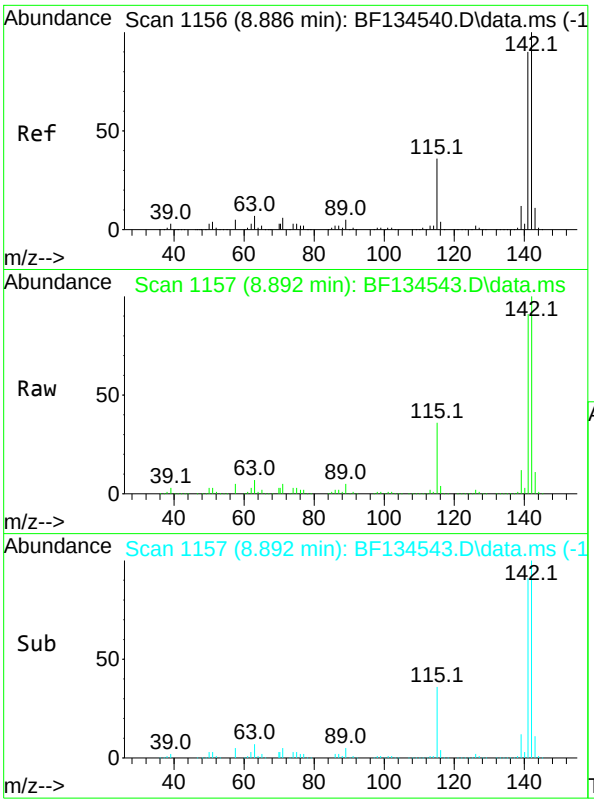


#37
2-Methylnaphthalene
Concen: 64.577 ng
RT: 8.792 min Scan# 1140
Delta R.T. 0.006 min
Lab File: BF134543.D
Acq: 01 Aug 2023 11:47

Tgt Ion:142 Resp: 1768696

Ion	Ratio	Lower	Upper
142	100		
141	89.8	70.8	106.2

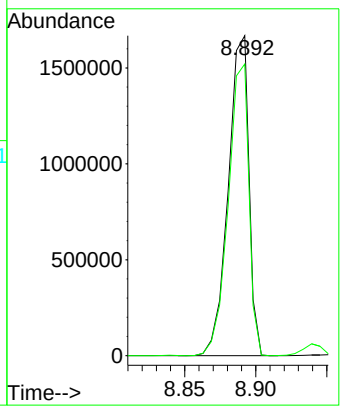




#38
1-Methylnaphthalene
Concen: 66.384 ng
RT: 8.892 min Scan# 11
Delta R.T. 0.006 min
Lab File: BF134543.D
Acq: 01 Aug 2023 11:47

Tgt Ion:142 Resp: 169071

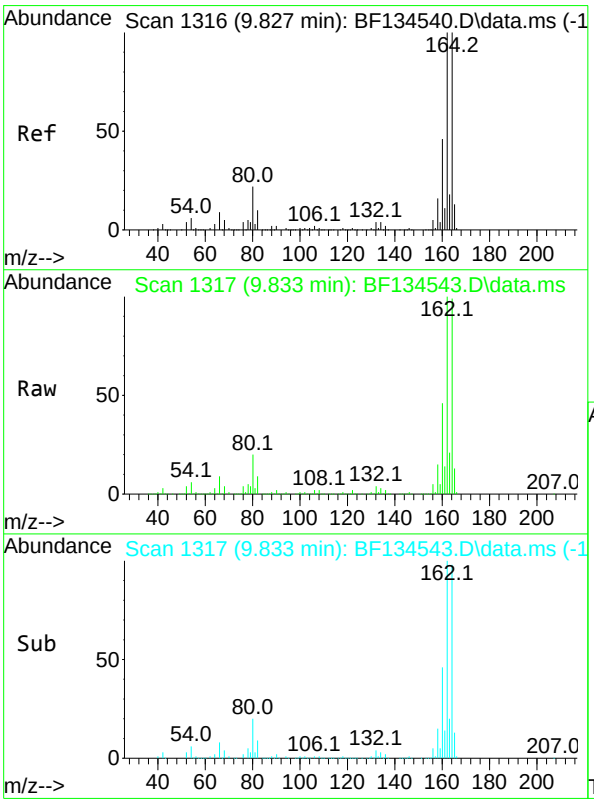
Ion	Ratio	Lower	Upper
142	100		
141	91.2	71.4	107.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

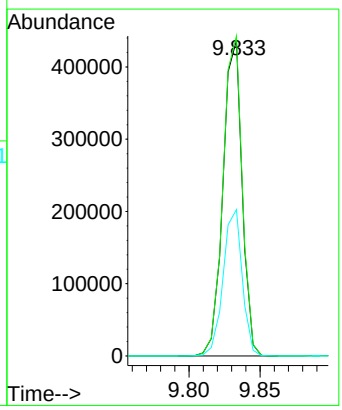
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

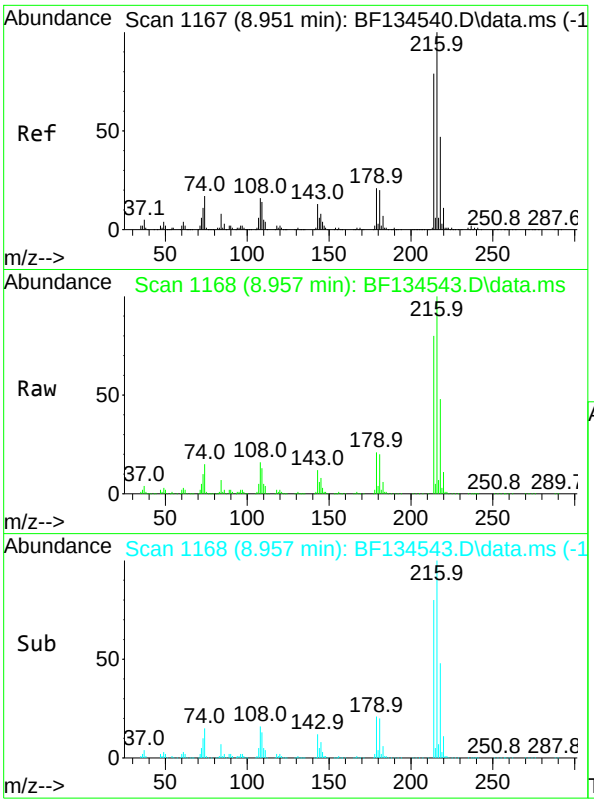


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.833 min Scan# 1317
Delta R.T. 0.006 min
Lab File: BF134543.D
Acq: 01 Aug 2023 11:47

Tgt Ion:164 Resp: 408827

Ion	Ratio	Lower	Upper
164	100		
162	101.4	82.6	123.8
160	46.4	37.2	55.8

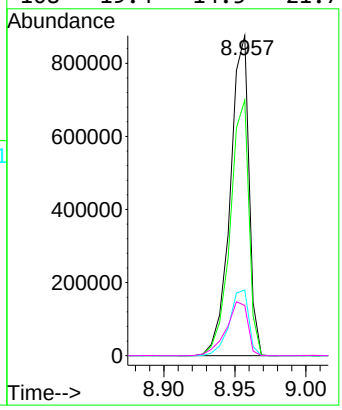




#40
1,2,4,5-Tetrachlorobenzene
Concen: 67.709 ng
RT: 8.957 min Scan# 11
Delta R.T. 0.006 min
Lab File: BF134543.D
Acq: 01 Aug 2023 11:47

Tgt Ion:216 Resp: 80495

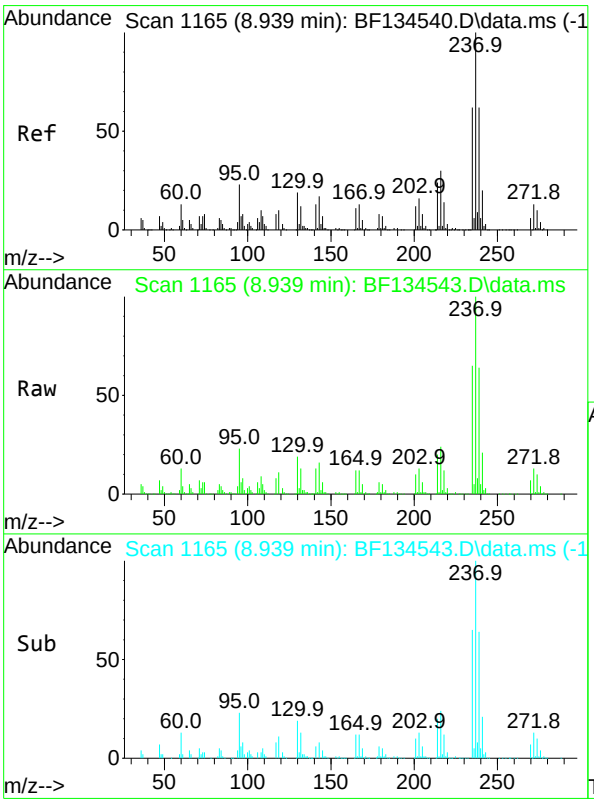
Ion	Ratio	Lower	Upper
216	100		
214	79.8	62.3	93.5
179	21.3	17.4	26.0
108	19.4	14.5	21.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

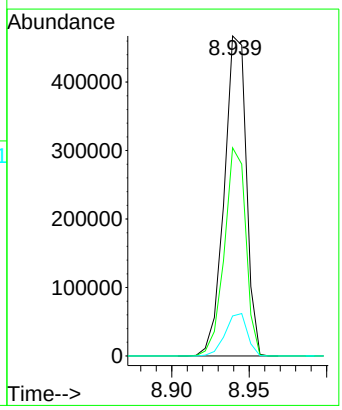
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

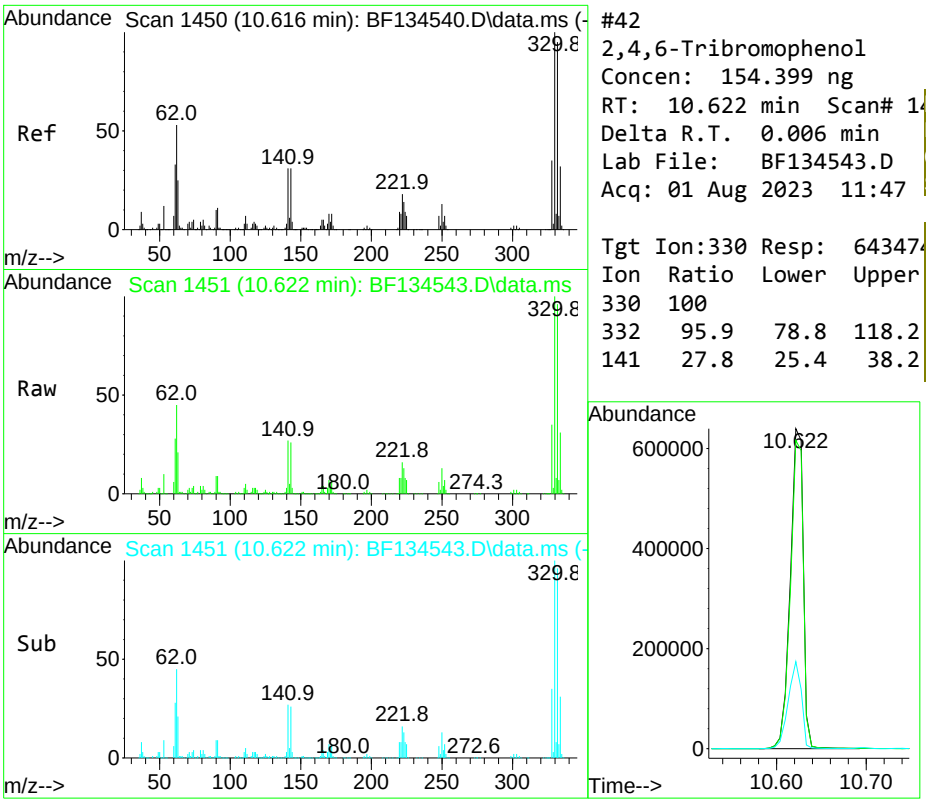


#41
Hexachlorocyclopentadiene
Concen: 80.120 ng
RT: 8.939 min Scan# 1165
Delta R.T. 0.000 min
Lab File: BF134543.D
Acq: 01 Aug 2023 11:47

Tgt Ion:237 Resp: 463185

Ion	Ratio	Lower	Upper
237	100		
235	65.1	37.0	77.0
272	12.5	0.0	32.7





#42
2,4,6-Tribromophenol
Concen: 154.399 ng
RT: 10.622 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF134543.D
Acq: 01 Aug 2023 11:47

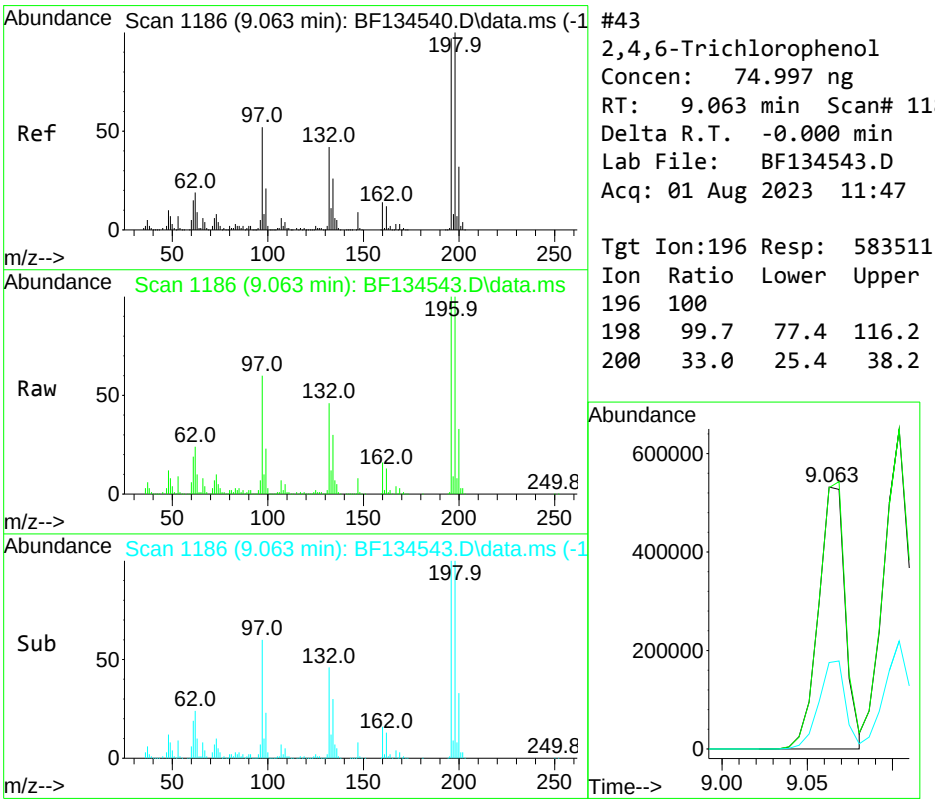
Tgt Ion:330 Resp: 64347

Ion	Ratio	Lower	Upper
330	100		
332	95.9	78.8	118.2
141	27.8	25.4	38.2

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

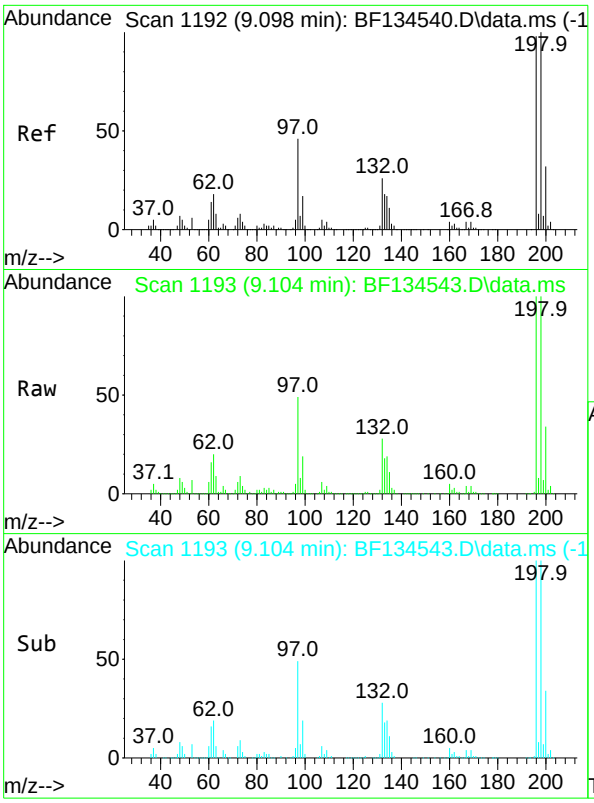
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023



#43
2,4,6-Trichlorophenol
Concen: 74.997 ng
RT: 9.063 min Scan# 1186
Delta R.T. -0.000 min
Lab File: BF134543.D
Acq: 01 Aug 2023 11:47

Tgt Ion:196 Resp: 583511

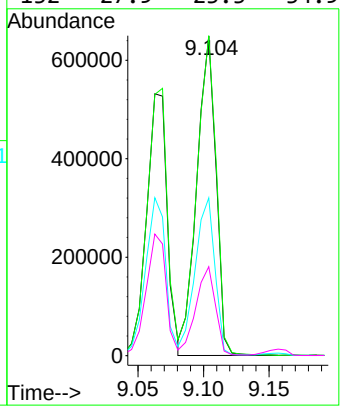
Ion	Ratio	Lower	Upper
196	100		
198	99.7	77.4	116.2
200	33.0	25.4	38.2



#44
2,4,5-Trichlorophenol
Concen: 74.435 ng
RT: 9.104 min Scan# 11
Delta R.T. 0.006 min
Lab File: BF134543.D
Acq: 01 Aug 2023 11:47

Tgt Ion:196 Resp: 66190

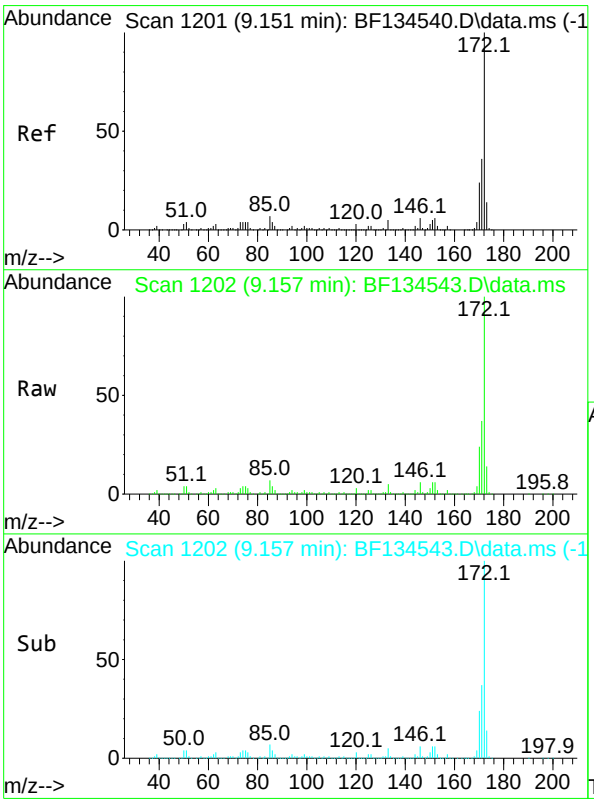
Ion	Ratio	Lower	Upper
196	100		
198	100.2	73.0	109.4
97	49.4	40.8	61.2
132	27.9	23.3	34.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

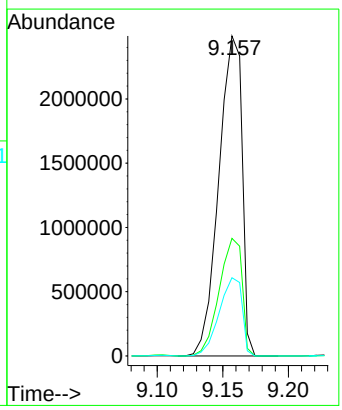
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

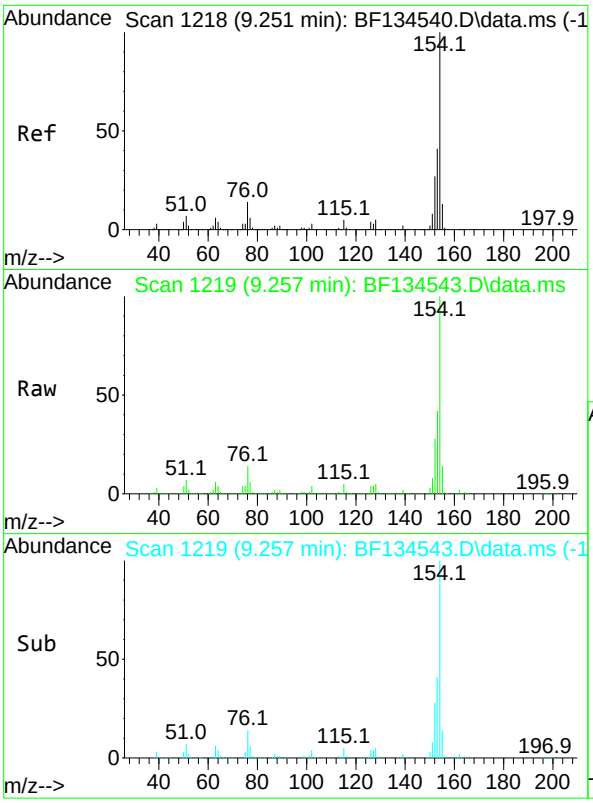


#45
2-Fluorobiphenyl
Concen: 124.605 ng
RT: 9.157 min Scan# 1202
Delta R.T. 0.006 min
Lab File: BF134543.D
Acq: 01 Aug 2023 11:47

Tgt Ion:172 Resp: 3063825

Ion	Ratio	Lower	Upper
172	100		
171	36.7	28.8	43.2
170	24.4	18.7	28.1

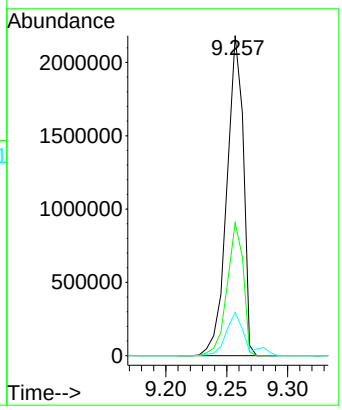




#46
1,1'-Biphenyl
Concen: 64.668 ng
RT: 9.257 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF134543.D
Acq: 01 Aug 2023 11:47

Tgt Ion:154 Resp: 205590

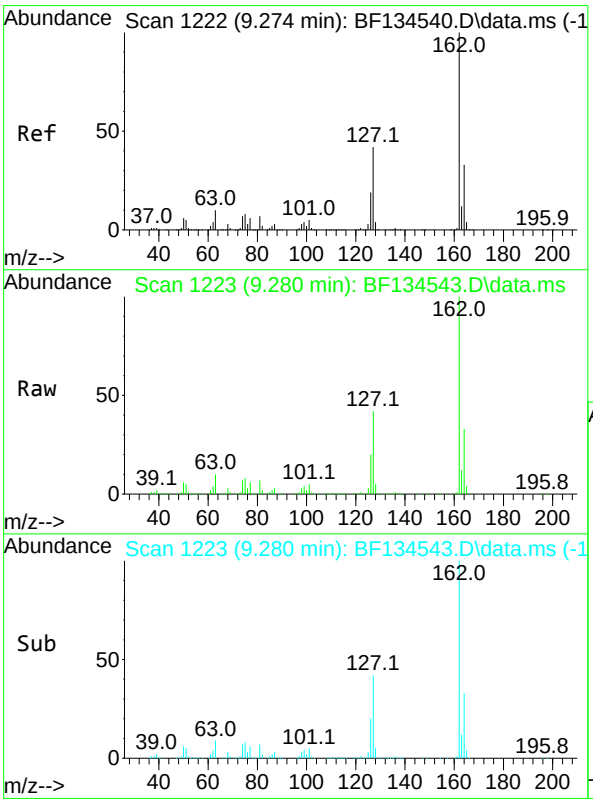
Ion	Ratio	Lower	Upper
154	100		
153	41.5	20.8	60.8
76	13.5	0.0	30.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

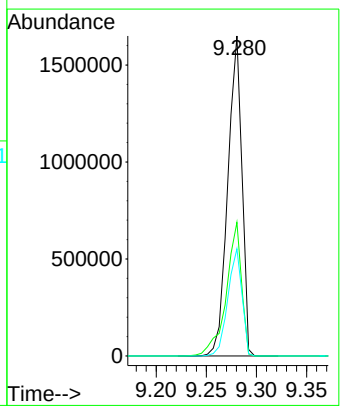
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

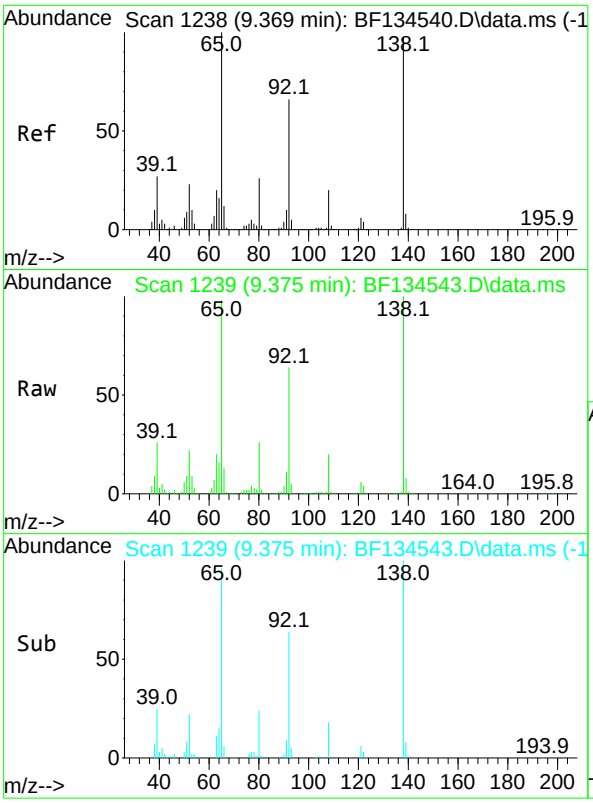


#47
2-Chloronaphthalene
Concen: 67.708 ng
RT: 9.280 min Scan# 1223
Delta R.T. 0.006 min
Lab File: BF134543.D
Acq: 01 Aug 2023 11:47

Tgt Ion:162 Resp: 1612906

Ion	Ratio	Lower	Upper
162	100		
127	41.7	34.0	51.0
164	33.5	25.7	38.5

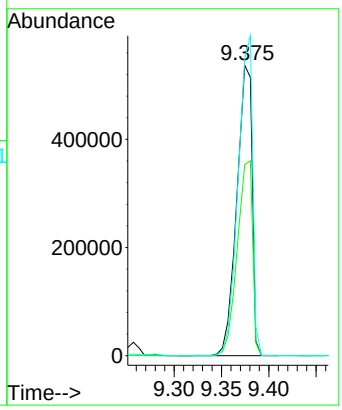




#48
2-Nitroaniline
Concen: 79.389 ng
RT: 9.375 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF134543.D
Acq: 01 Aug 2023 11:47

Tgt Ion: 65 Resp: 60605

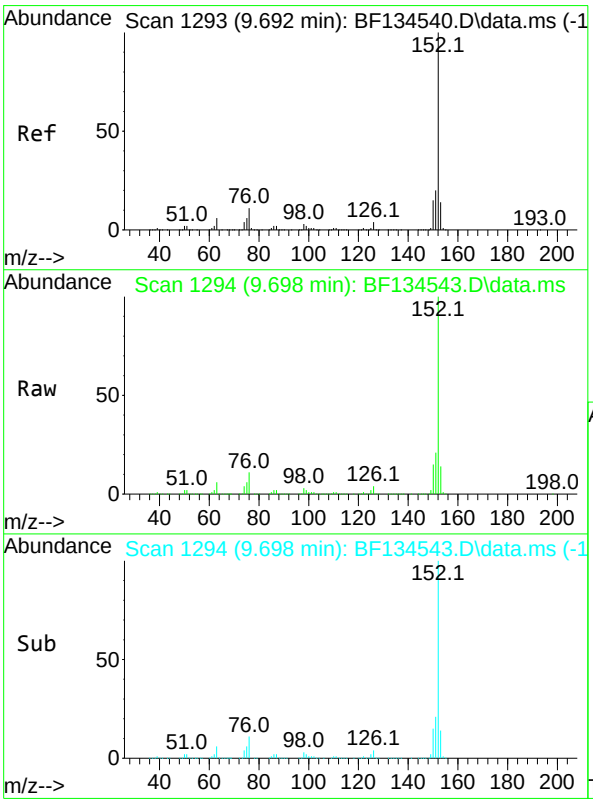
Ion	Ratio	Lower	Upper
65	100		
92	65.8	50.7	76.1
138	102.4	78.2	117.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

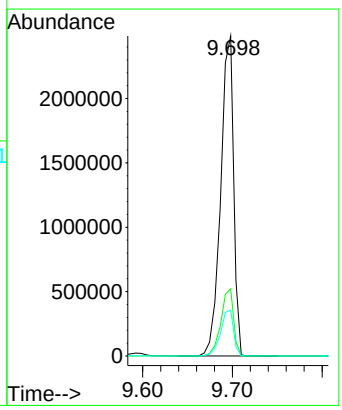
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

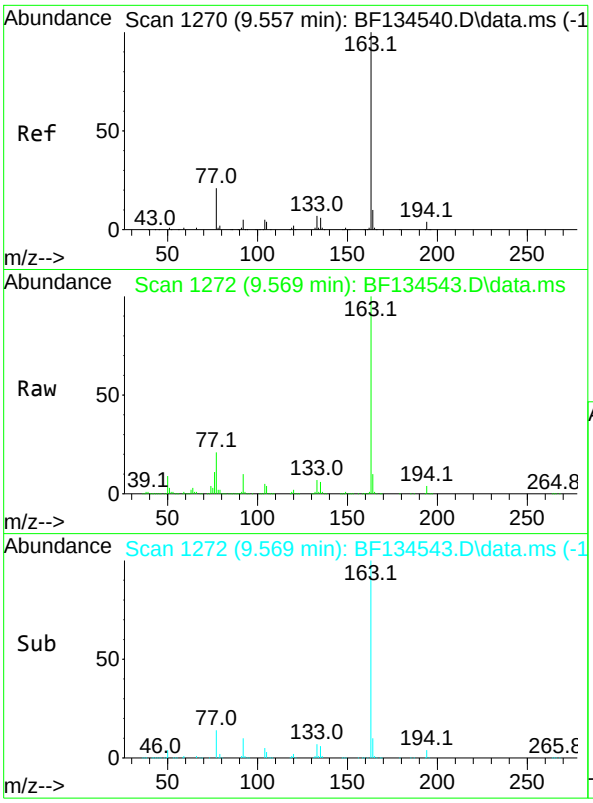


#49
Acenaphthylene
Concen: 66.482 ng
RT: 9.698 min Scan# 1294
Delta R.T. 0.006 min
Lab File: BF134543.D
Acq: 01 Aug 2023 11:47

Tgt Ion:152 Resp: 2489387

Ion	Ratio	Lower	Upper
152	100		
151	21.0	16.4	24.6
153	14.3	10.9	16.3

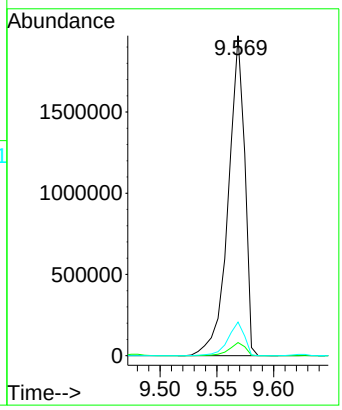




#50
Dimethylphthalate
Concen: 71.064 ng
RT: 9.569 min Scan# 1
Delta R.T. 0.012 min
Lab File: BF134543.D
Acq: 01 Aug 2023 11:47

Tgt Ion:163 Resp: 198014

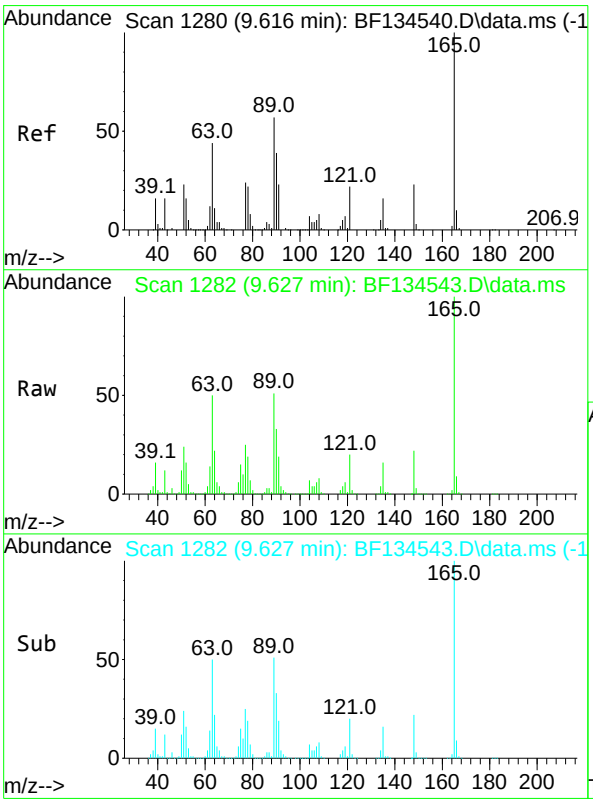
Ion	Ratio	Lower	Upper
163	100		
194	4.1	3.3	4.9
164	10.5	7.5	11.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

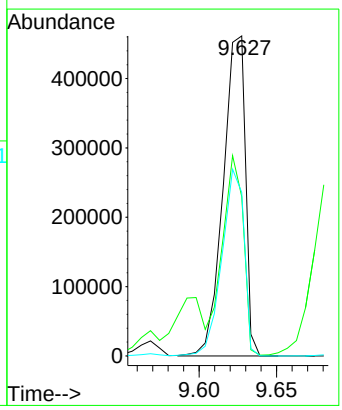
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

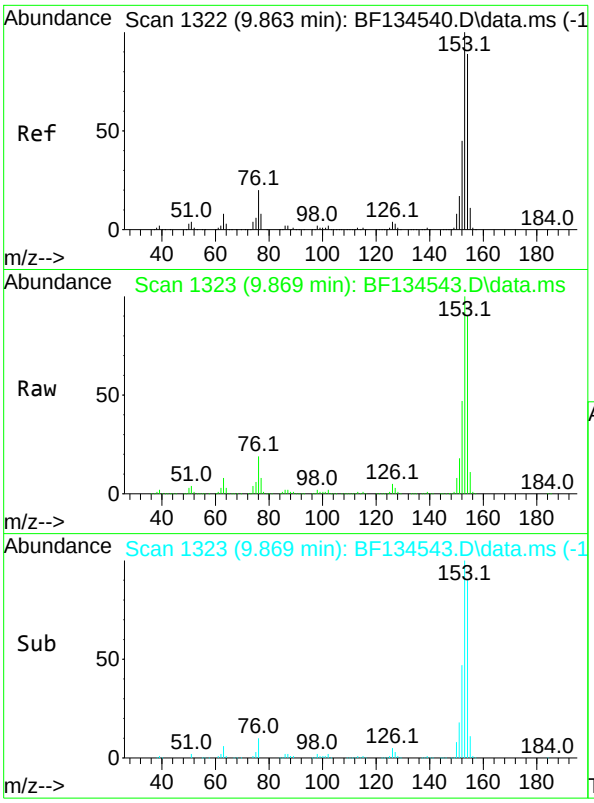


#51
2,6-Dinitrotoluene
Concen: 79.169 ng
RT: 9.627 min Scan# 1282
Delta R.T. 0.011 min
Lab File: BF134543.D
Acq: 01 Aug 2023 11:47

Tgt Ion:165 Resp: 461752

Ion	Ratio	Lower	Upper
165	100		
63	49.8	57.8	86.6#
89	51.1	51.8	77.8#

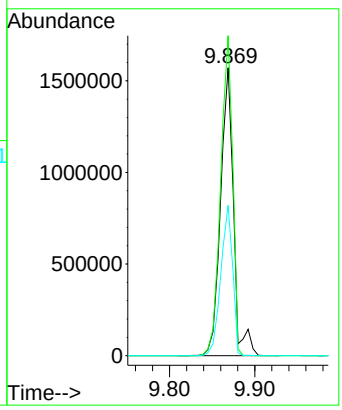




#52
Acenaphthene
Concen: 68.138 ng
RT: 9.869 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF134543.D
Acq: 01 Aug 2023 11:47

Tgt Ion:154 Resp: 165343

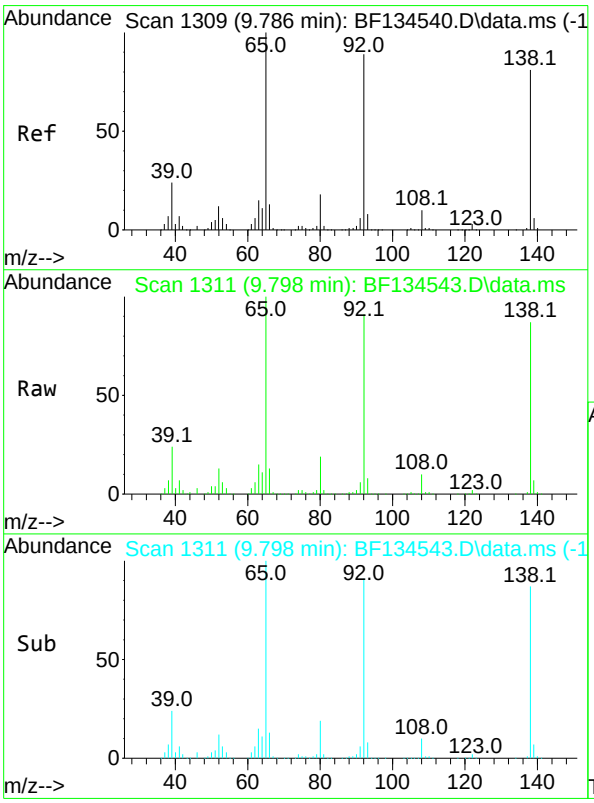
Ion	Ratio	Lower	Upper
154	100		
153	111.1	90.0	135.0
152	52.2	42.4	63.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

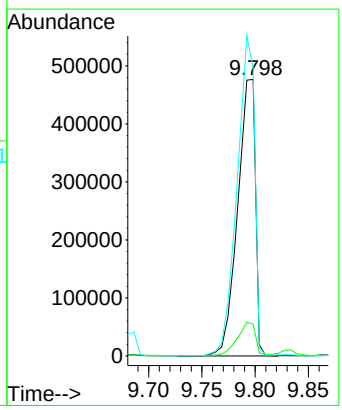
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

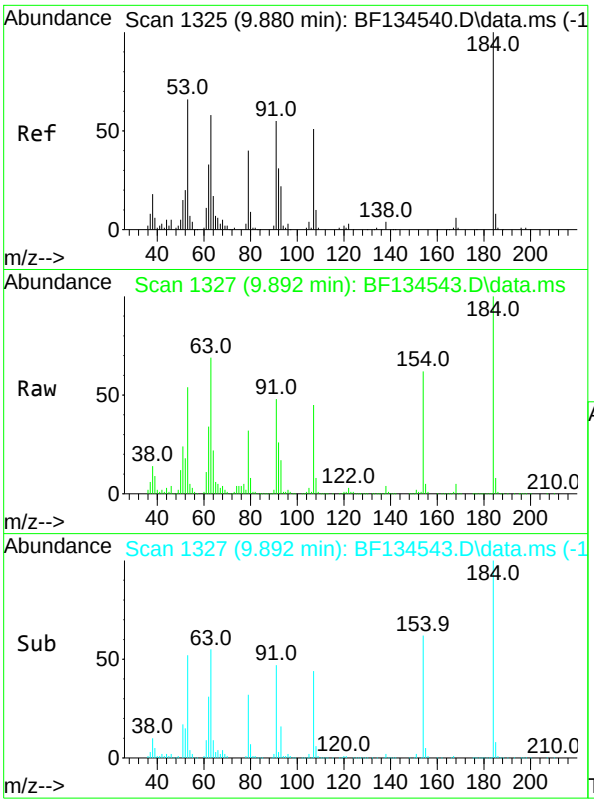


#53
3-Nitroaniline
Concen: 89.194 ng
RT: 9.798 min Scan# 1311
Delta R.T. 0.012 min
Lab File: BF134543.D
Acq: 01 Aug 2023 11:47

Tgt Ion:138 Resp: 553958

Ion	Ratio	Lower	Upper
138	100		
108	11.5	9.3	13.9
92	104.5	86.6	129.8

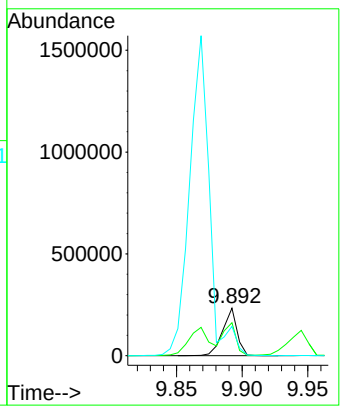




#54
2,4-Dinitrophenol
Concen: 79.118 ng
RT: 9.892 min Scan# 1
Delta R.T. 0.012 min
Lab File: BF134543.D
Acq: 01 Aug 2023 11:47

Tgt Ion:184 Resp: 17849

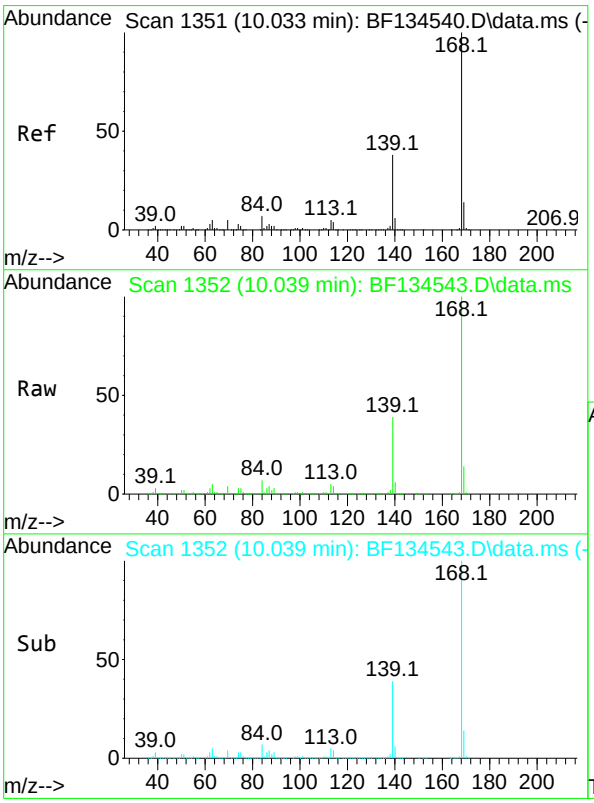
Ion	Ratio	Lower	Upper
184	100		
63	69.4	57.1	85.7
154	61.8	59.1	88.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

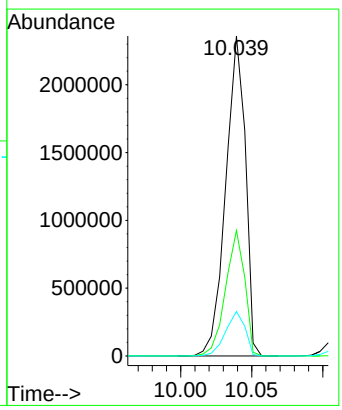
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

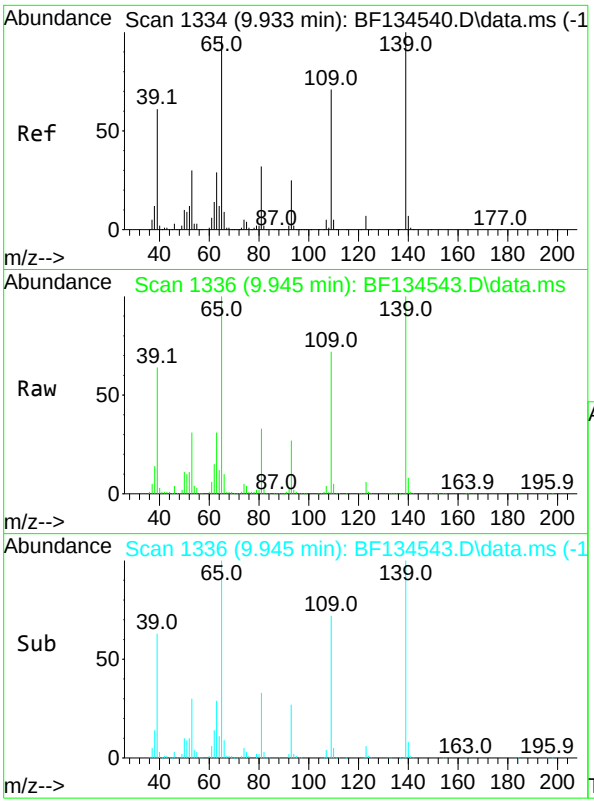


#55
Dibenzofuran
Concen: 65.696 ng
RT: 10.039 min Scan# 1352
Delta R.T. 0.006 min
Lab File: BF134543.D
Acq: 01 Aug 2023 11:47

Tgt Ion:168 Resp: 2269394

Ion	Ratio	Lower	Upper
168	100		
139	39.2	33.4	50.2
169	13.9	10.6	15.8

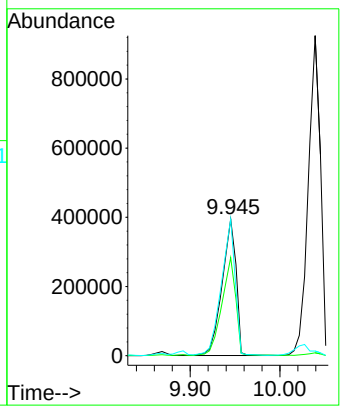




#56
4-Nitrophenol
Concen: 84.599 ng
RT: 9.945 min Scan# 1
Delta R.T. 0.012 min
Lab File: BF134543.D
Acq: 01 Aug 2023 11:47

Tgt Ion:139 Resp: 42972

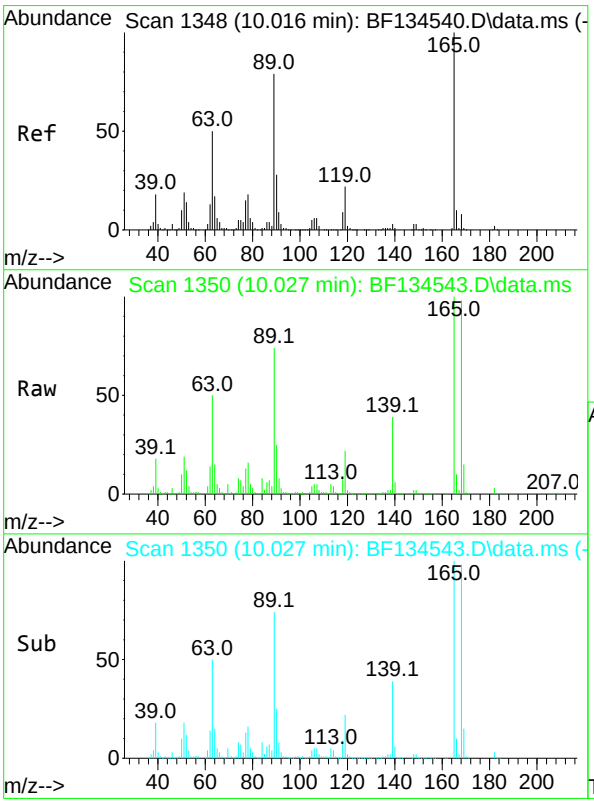
Ion	Ratio	Lower	Upper
139	100		
109	71.9	76.9	116.9#
65	100.3	98.5	138.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

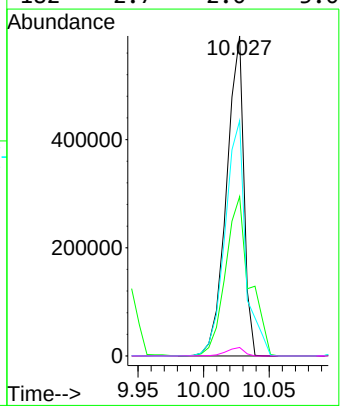
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

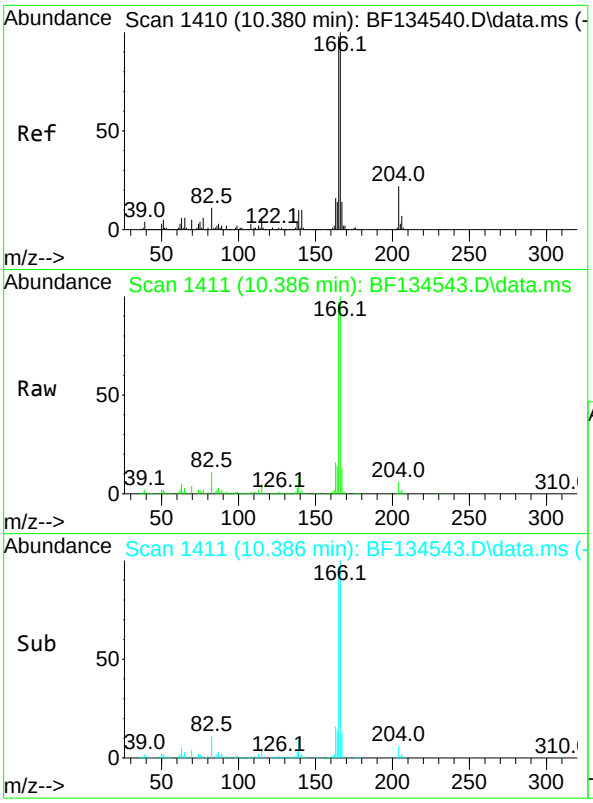


#57
2,4-Dinitrotoluene
Concen: 77.253 ng
RT: 10.027 min Scan# 1350
Delta R.T. 0.011 min
Lab File: BF134543.D
Acq: 01 Aug 2023 11:47

Tgt Ion:165 Resp: 545452

Ion	Ratio	Lower	Upper
165	100		
63	49.8	48.9	73.3
89	73.5	61.7	92.5
182	2.7	2.0	3.0

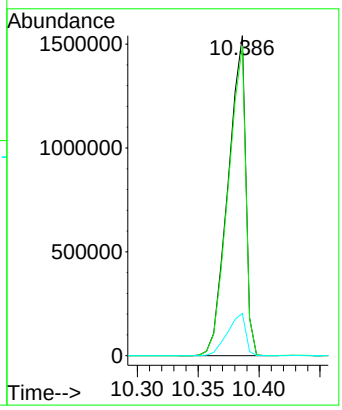




#58
Fluorene
Concen: 61.528 ng
RT: 10.386 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF134543.D
Acq: 01 Aug 2023 11:47

Tgt Ion:166 Resp: 154811

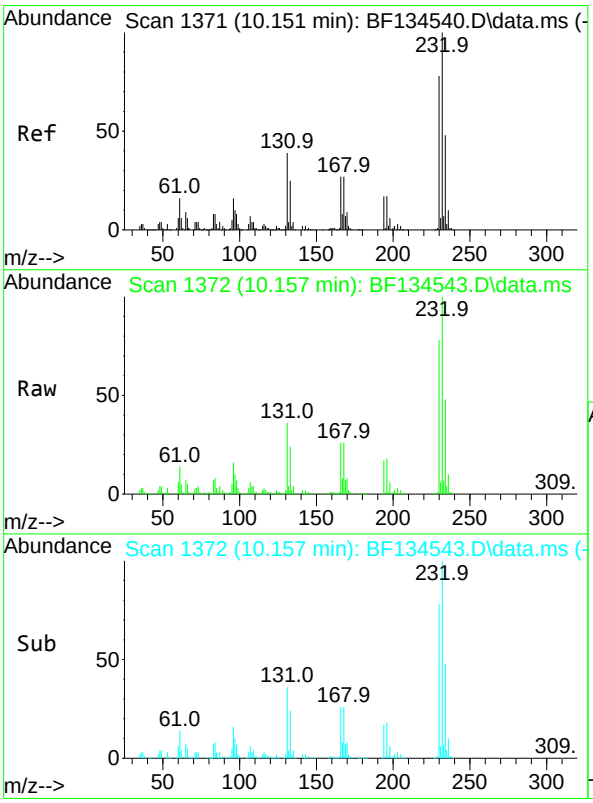
Ion	Ratio	Lower	Upper
166	100		
165	96.8	74.5	111.7
167	13.2	10.6	16.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

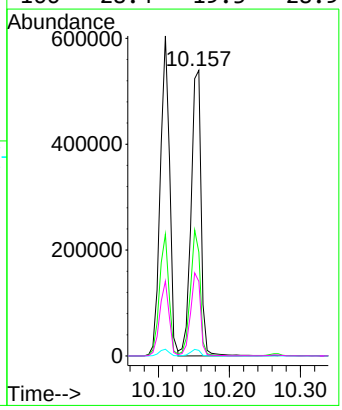
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

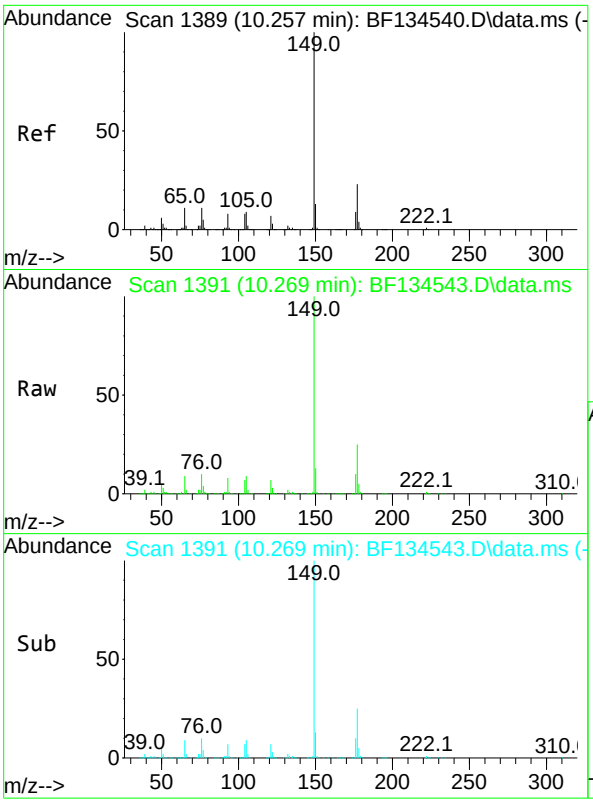


#59
2,3,4,6-Tetrachlorophenol
Concen: 75.139 ng
RT: 10.157 min Scan# 1372
Delta R.T. 0.006 min
Lab File: BF134543.D
Acq: 01 Aug 2023 11:47

Tgt Ion:232 Resp: 529499

Ion	Ratio	Lower	Upper
232	100		
131	42.5	33.4	50.0
130	2.3	1.8	2.6
166	28.4	19.3	28.9

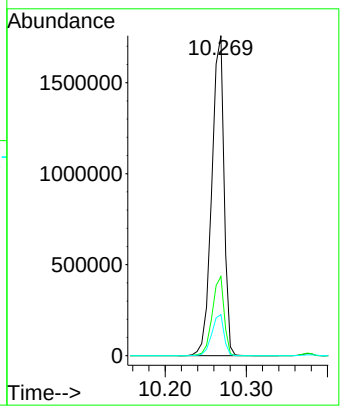




#60
Diethylphthalate
Concen: 69.473 ng
RT: 10.269 min Scan# 1
Delta R.T. 0.012 min
Lab File: BF134543.D
Acq: 01 Aug 2023 11:47

Tgt Ion:149 Resp: 183488

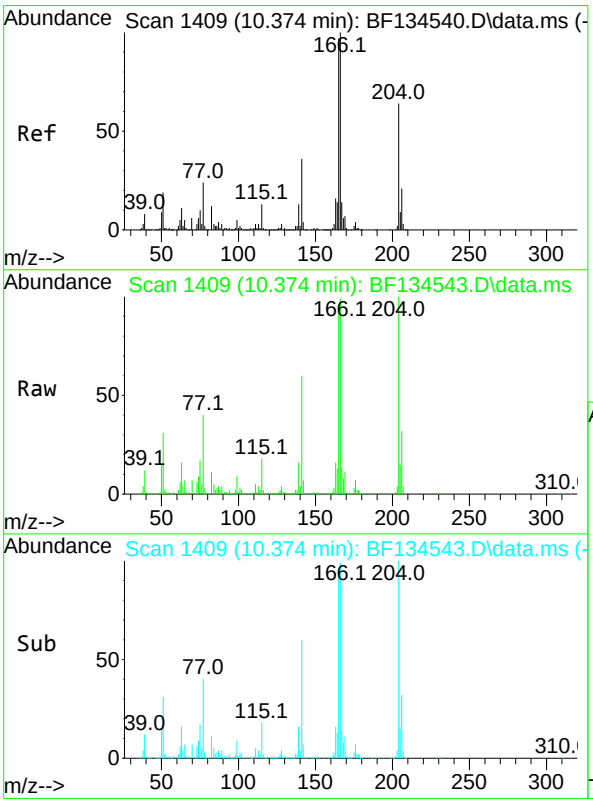
Ion	Ratio	Lower	Upper
149	100		
177	24.7	17.0	25.4
150	12.9	9.9	14.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

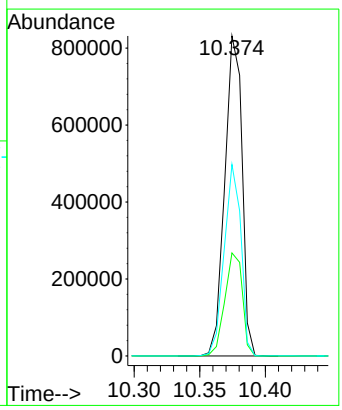
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

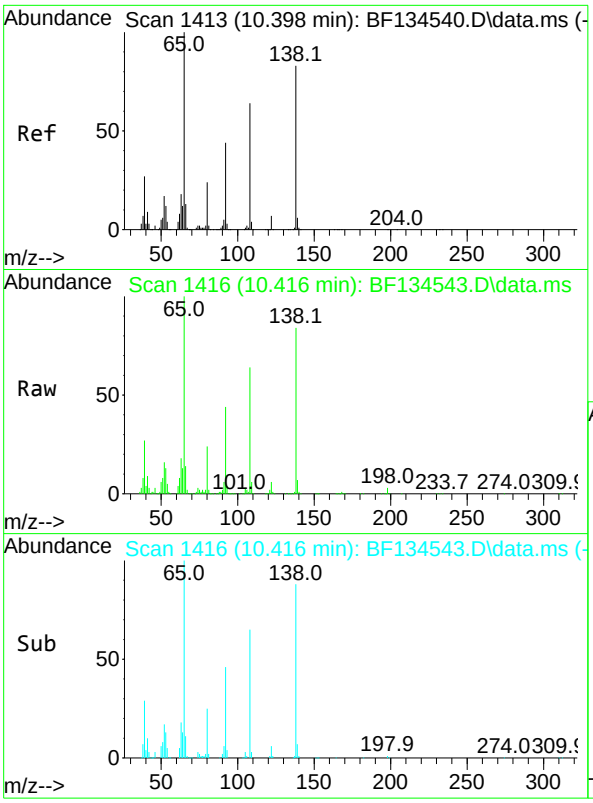


#61
4-Chlorophenyl-phenylether
Concen: 61.543 ng
RT: 10.374 min Scan# 1409
Delta R.T. 0.000 min
Lab File: BF134543.D
Acq: 01 Aug 2023 11:47

Tgt Ion:204 Resp: 761135

Ion	Ratio	Lower	Upper
204	100		
206	32.2	26.0	39.0
141	59.8	52.2	78.4

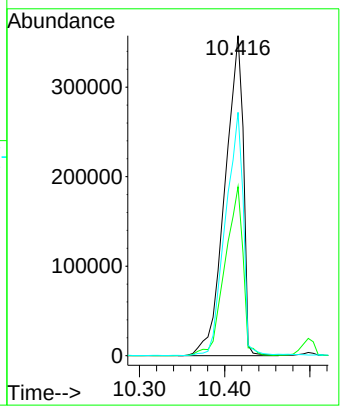




#62
4-Nitroaniline
Concen: 87.795 ng
RT: 10.416 min Scan# 14
Delta R.T. 0.018 min
Lab File: BF134543.D
Acq: 01 Aug 2023 11:47

Tgt Ion:138 Resp: 53444

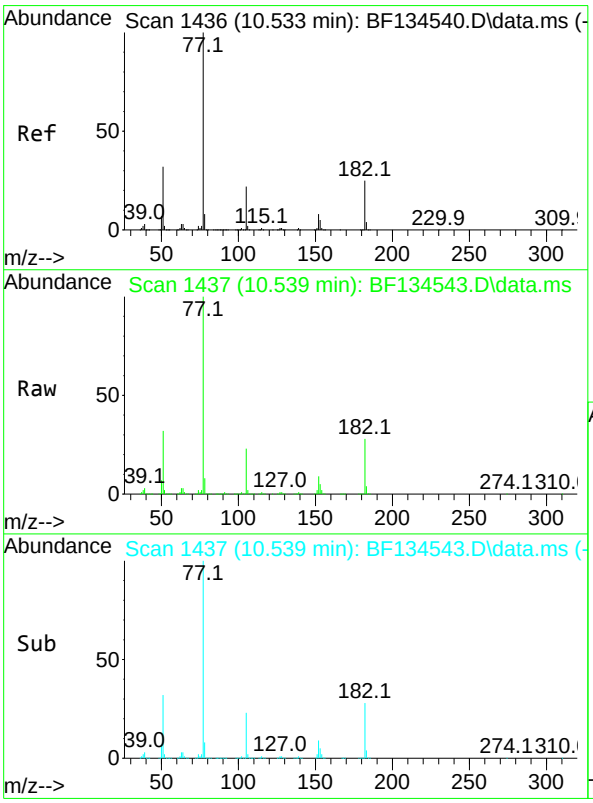
Ion	Ratio	Lower	Upper
138	100		
92	52.8	27.0	67.0
108	76.1	70.4	110.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

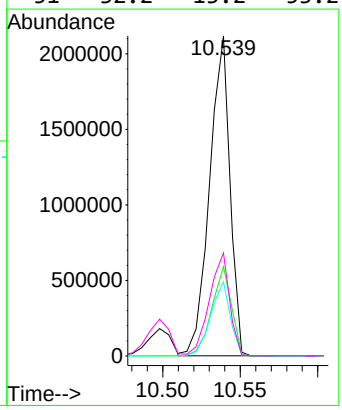
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

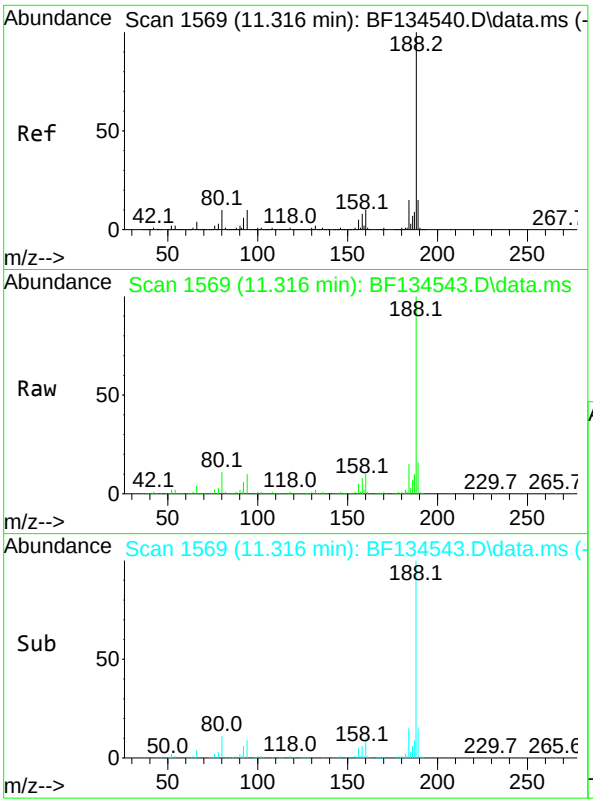


#63
Azobenzene
Concen: 68.051 ng
RT: 10.539 min Scan# 1437
Delta R.T. 0.006 min
Lab File: BF134543.D
Acq: 01 Aug 2023 11:47

Tgt Ion: 77 Resp: 1931065

Ion	Ratio	Lower	Upper
77	100		
182	28.0	7.5	47.5
105	23.1	1.9	41.9
51	32.2	13.2	53.2

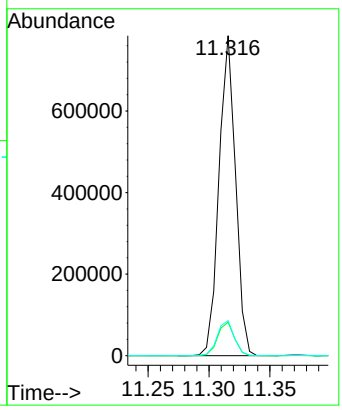




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.316 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134543.D
Acq: 01 Aug 2023 11:47

Tgt Ion:188 Resp: 74232

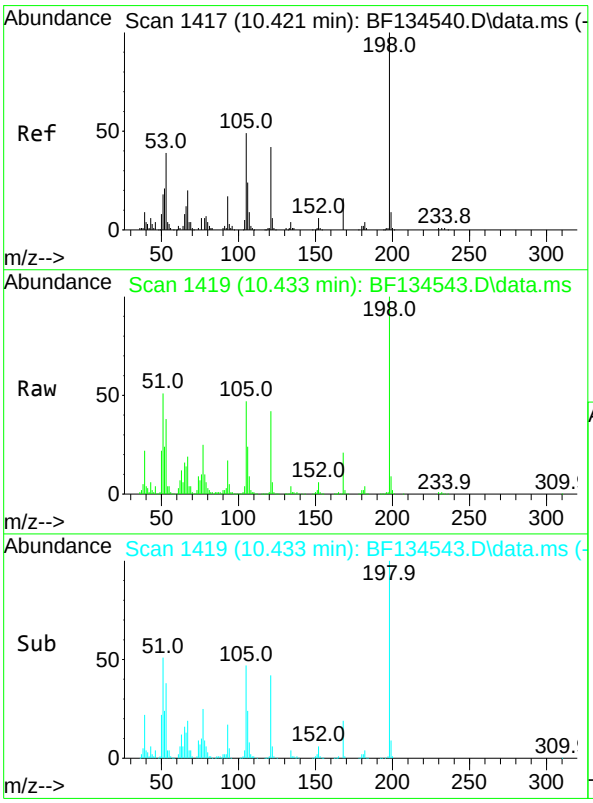
Ion	Ratio	Lower	Upper
188	100		
94	10.5	5.1	7.7
80	10.9	6.6	9.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

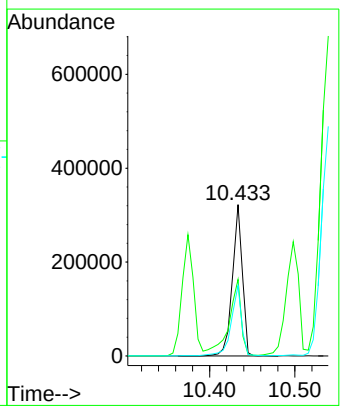
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

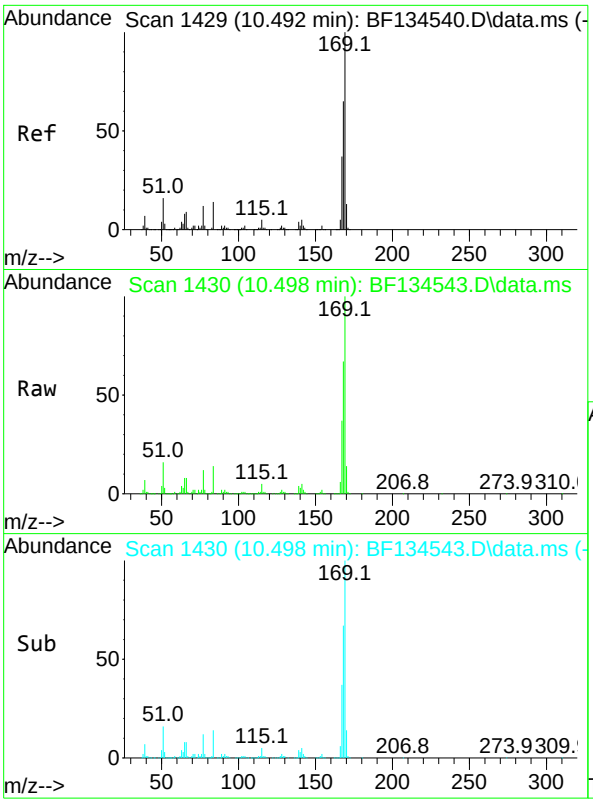


#65
4,6-Dinitro-2-methylphenol
Concen: 80.845 ng
RT: 10.433 min Scan# 1419
Delta R.T. 0.012 min
Lab File: BF134543.D
Acq: 01 Aug 2023 11:47

Tgt Ion:198 Resp: 264375

Ion	Ratio	Lower	Upper
198	100		
51	50.5	38.6	78.6
105	46.6	27.9	67.9

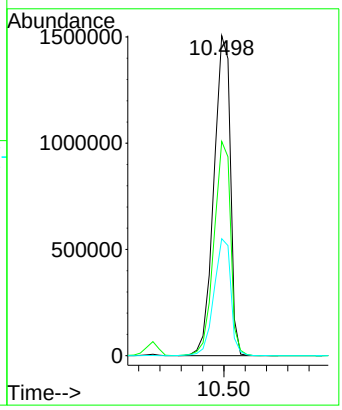




#66
n-Nitrosodiphenylamine
Concen: 68.242 ng
RT: 10.498 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF134543.D
Acq: 01 Aug 2023 11:47

Tgt Ion:169 Resp: 161240

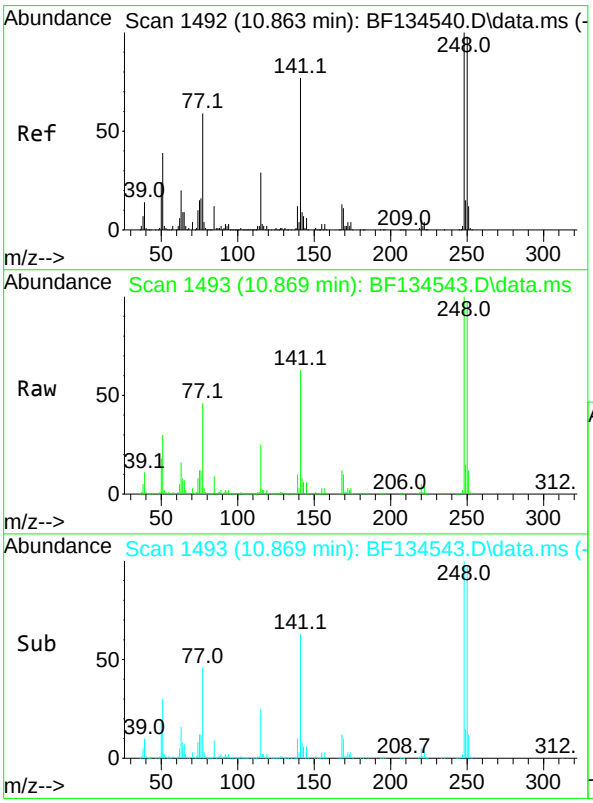
Ion	Ratio	Lower	Upper
169	100		
168	66.9	52.6	78.8
167	36.5	29.8	44.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

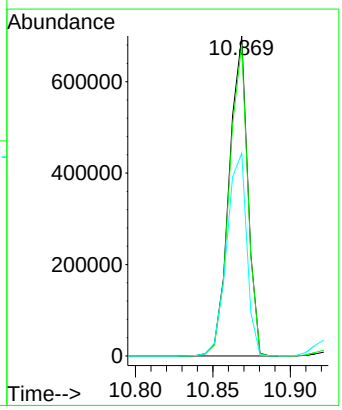
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

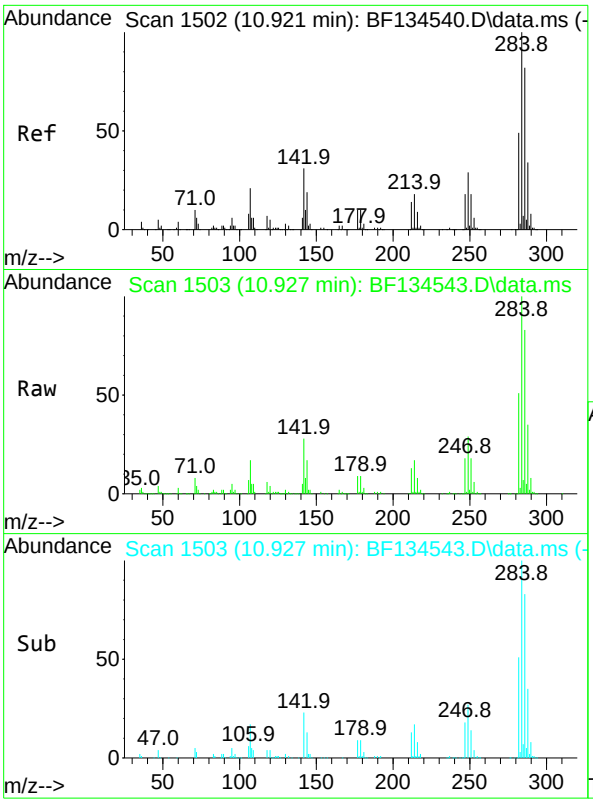


#67
4-Bromophenyl-phenylether
Concen: 71.922 ng
RT: 10.869 min Scan# 1493
Delta R.T. 0.006 min
Lab File: BF134543.D
Acq: 01 Aug 2023 11:47

Tgt Ion:248 Resp: 584450

Ion	Ratio	Lower	Upper
248	100		
250	97.3	79.6	119.4
141	63.3	59.6	89.4

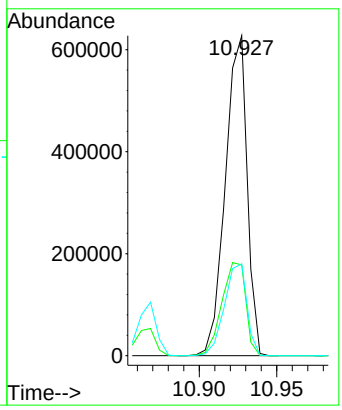




#68
Hexachlorobenzene
Concen: 71.492 ng
RT: 10.927 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF134543.D
Acq: 01 Aug 2023 11:47

Tgt Ion:284 Resp: 61347

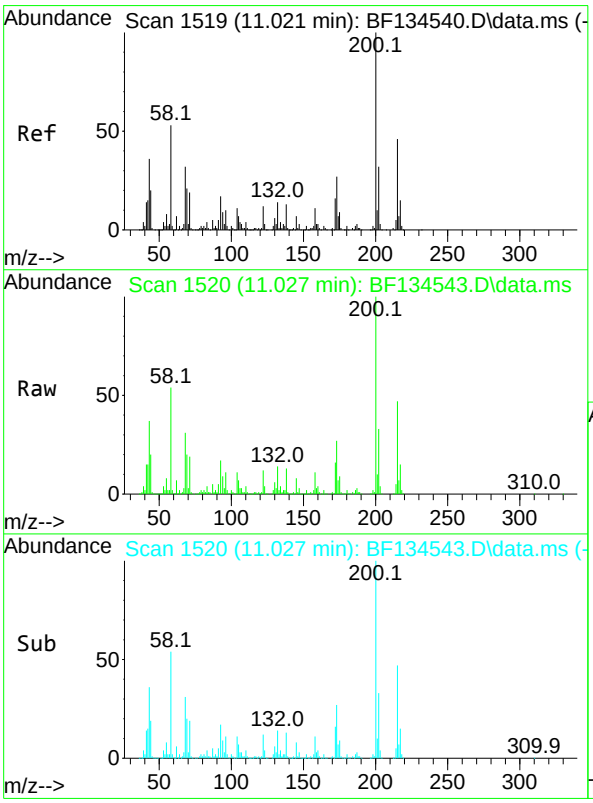
Ion	Ratio	Lower	Upper
284	100		
142	28.4	26.5	39.7
249	28.7	23.8	35.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

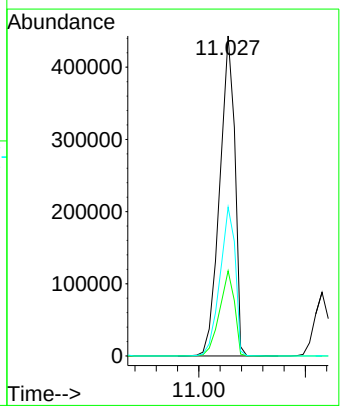
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

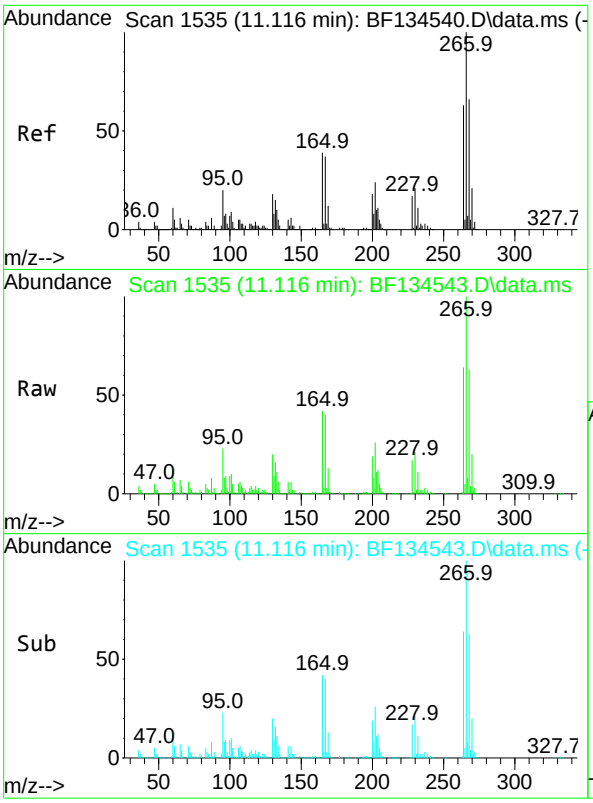


#69
Atrazine
Concen: 68.505 ng
RT: 11.027 min Scan# 1520
Delta R.T. 0.006 min
Lab File: BF134543.D
Acq: 01 Aug 2023 11:47

Tgt Ion:200 Resp: 436272

Ion	Ratio	Lower	Upper
200	100		
173	26.6	6.1	46.1
215	46.5	29.7	69.7

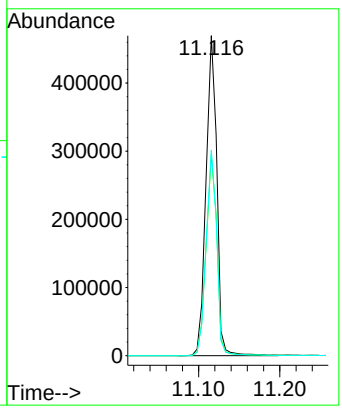




#70
Pentachlorophenol
Concen: 81.392 ng
RT: 11.116 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134543.D
Acq: 01 Aug 2023 11:47

Tgt Ion:266 Resp: 43244

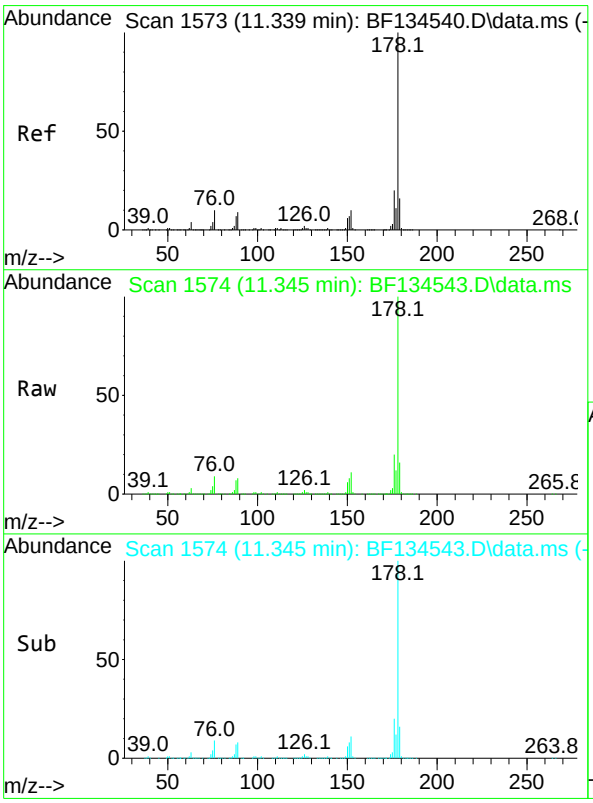
Ion	Ratio	Lower	Upper
266	100		
268	62.8	52.9	79.3
264	64.3	47.8	71.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

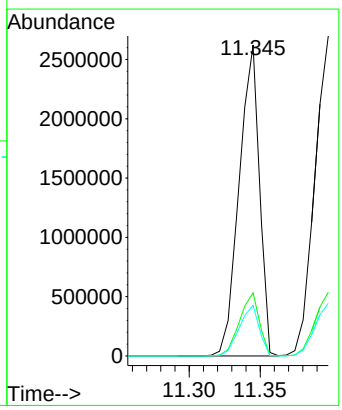
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

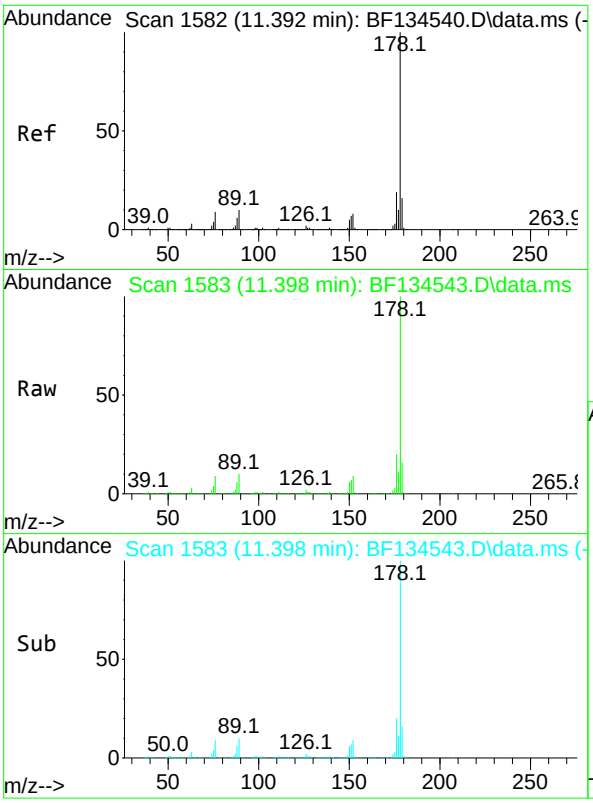


#71
Phenanthrene
Concen: 65.952 ng
RT: 11.345 min Scan# 1574
Delta R.T. 0.006 min
Lab File: BF134543.D
Acq: 01 Aug 2023 11:47

Tgt Ion:178 Resp: 2600432

Ion	Ratio	Lower	Upper
178	100		
176	20.3	15.8	23.6
179	16.3	12.7	19.1

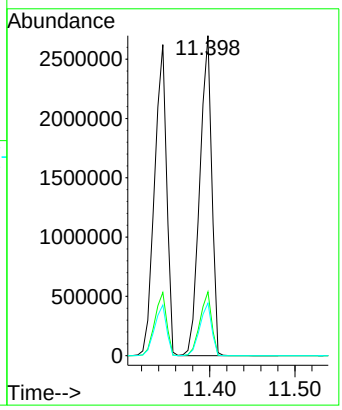




#72
Anthracene
Concen: 65.363 ng
RT: 11.398 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF134543.D
Acq: 01 Aug 2023 11:47

Tgt Ion:178 Resp: 263250

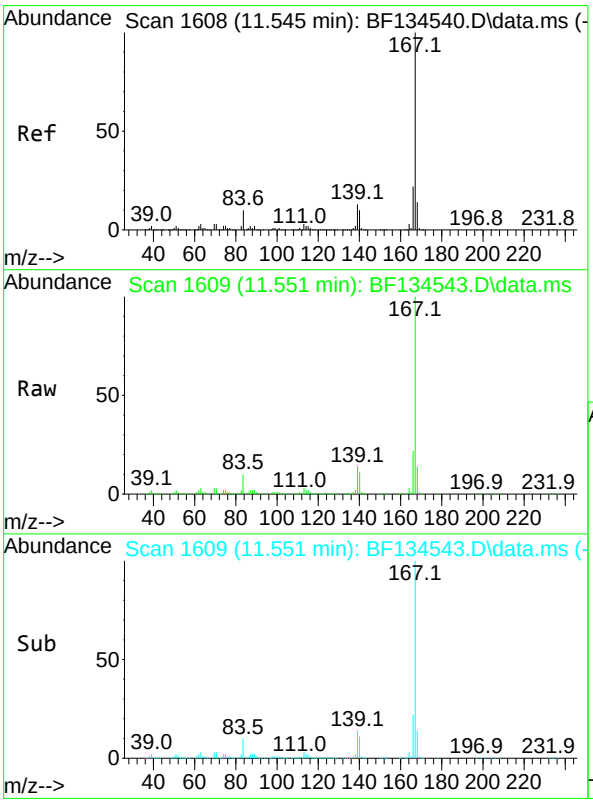
Ion	Ratio	Lower	Upper
178	100		
176	19.9	14.6	21.8
179	16.5	12.3	18.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

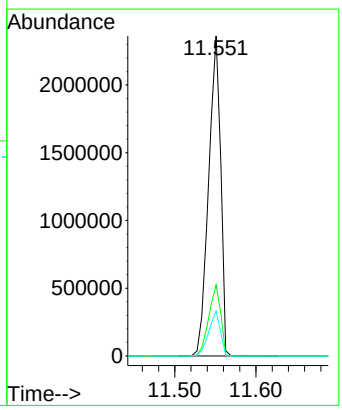
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

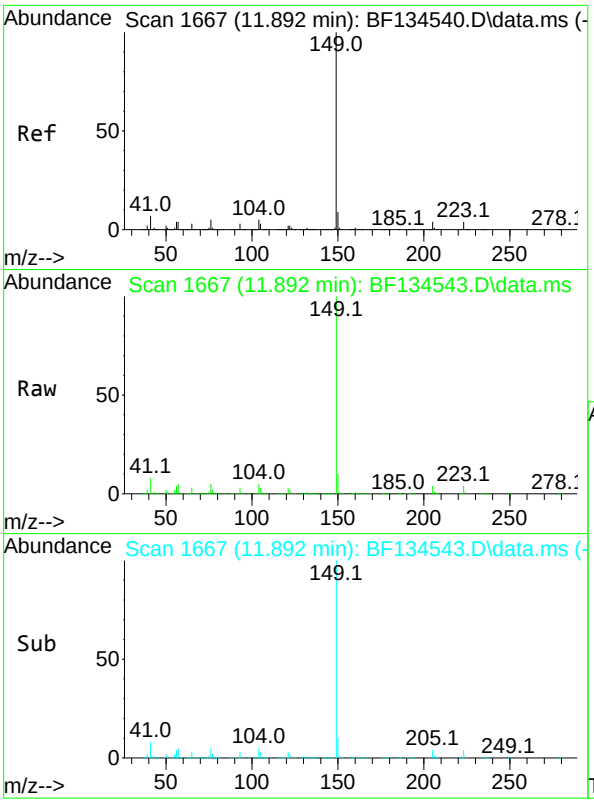


#73
Carbazole
Concen: 67.293 ng
RT: 11.551 min Scan# 1609
Delta R.T. 0.006 min
Lab File: BF134543.D
Acq: 01 Aug 2023 11:47

Tgt Ion:167 Resp: 2419878

Ion	Ratio	Lower	Upper
167	100		
166	22.3	17.5	26.3
139	14.0	11.0	16.4

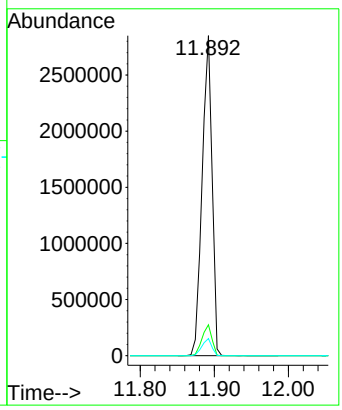




#74
Di-n-butylphthalate
Concen: 69.445 ng
RT: 11.892 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134543.D
Acq: 01 Aug 2023 11:47

Tgt Ion:149 Resp: 265310

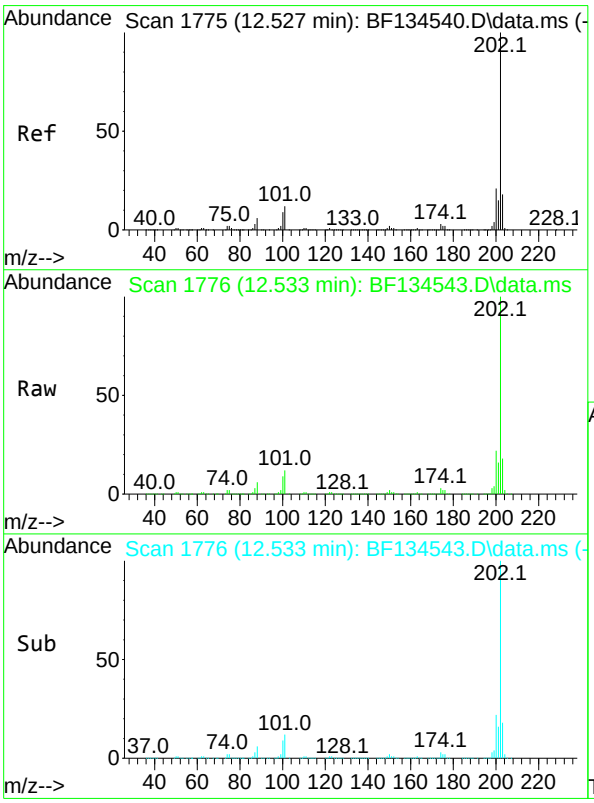
Ion	Ratio	Lower	Upper
149	100		
150	9.7	7.2	10.8
104	5.3	3.8	5.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

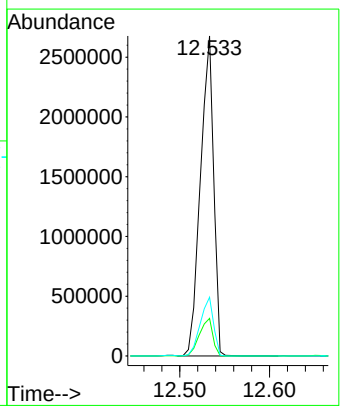
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

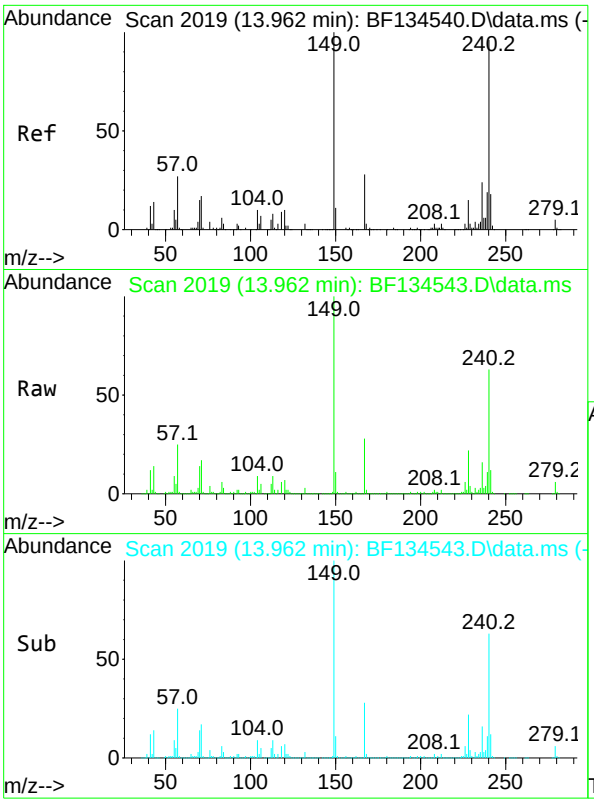


#75
Fluoranthene
Concen: 65.722 ng
RT: 12.533 min Scan# 1776
Delta R.T. 0.006 min
Lab File: BF134543.D
Acq: 01 Aug 2023 11:47

Tgt Ion:202 Resp: 2737292

Ion	Ratio	Lower	Upper
202	100		
101	11.8	0.0	28.5
203	18.3	0.0	37.5

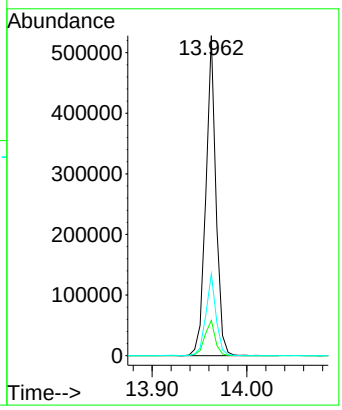




#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.962 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF134543.D
Acq: 01 Aug 2023 11:47

Tgt Ion:240 Resp: 38978

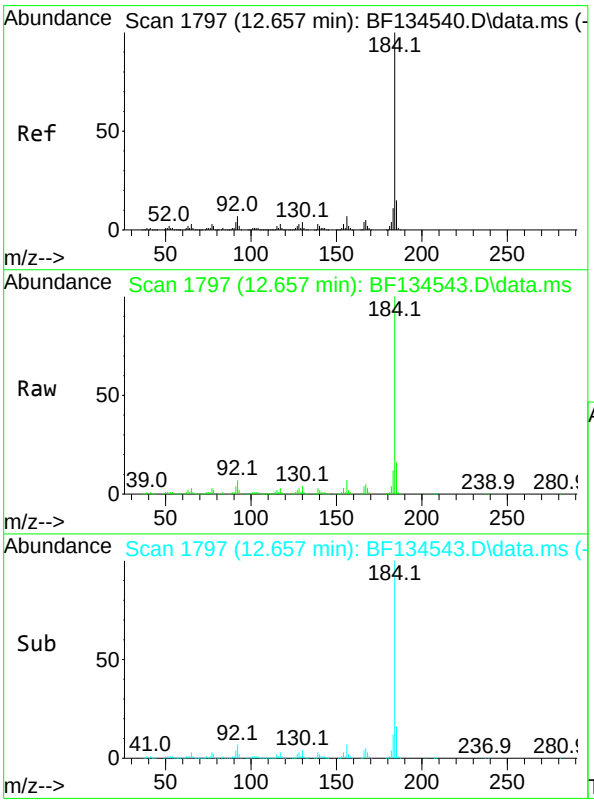
Ion	Ratio	Lower	Upper
240	100		
120	11.0	6.6	10.0
236	25.5	20.2	30.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

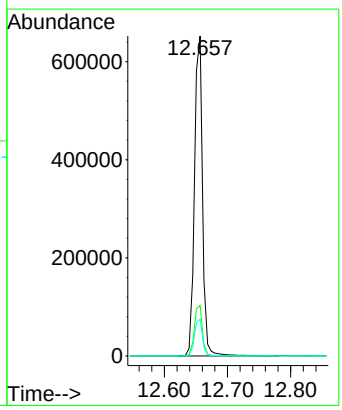
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

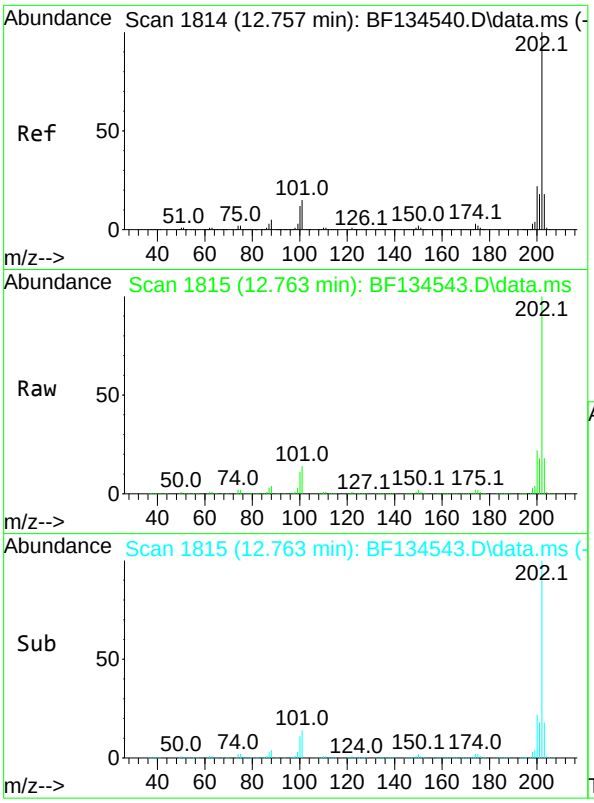


#77
Benzidine
Concen: 68.096 ng
RT: 12.657 min Scan# 1797
Delta R.T. 0.000 min
Lab File: BF134543.D
Acq: 01 Aug 2023 11:47

Tgt Ion:184 Resp: 576195

Ion	Ratio	Lower	Upper
184	100		
185	15.8	11.2	16.8
183	11.5	8.6	13.0

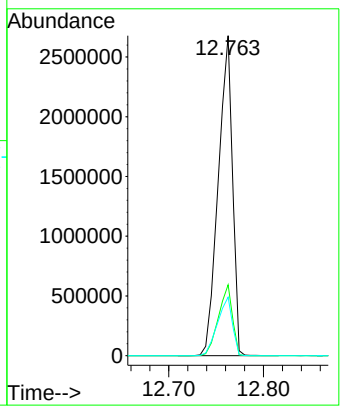




#78
Pyrene
Concen: 83.069 ng
RT: 12.763 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF134543.D
Acq: 01 Aug 2023 11:47

Tgt Ion:202 Resp: 280182

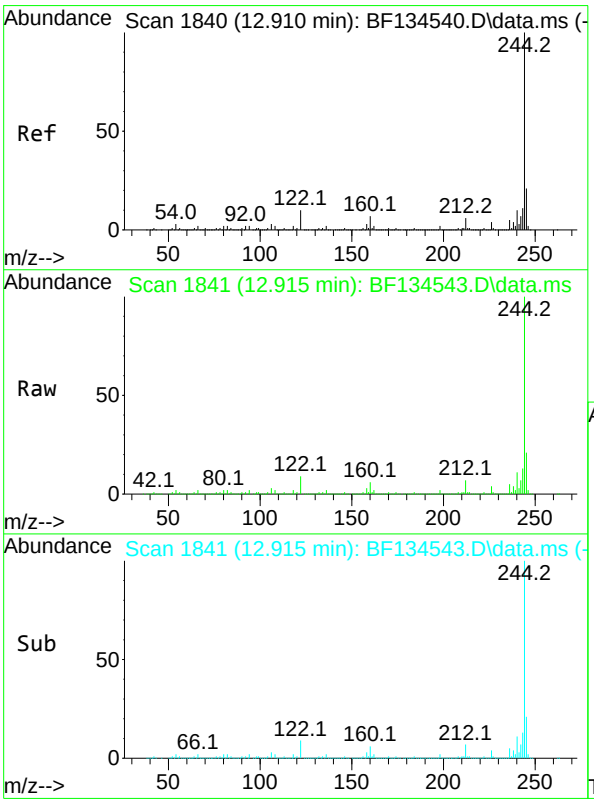
Ion	Ratio	Lower	Upper
202	100		
200	22.1	15.8	23.8
203	18.3	13.5	20.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

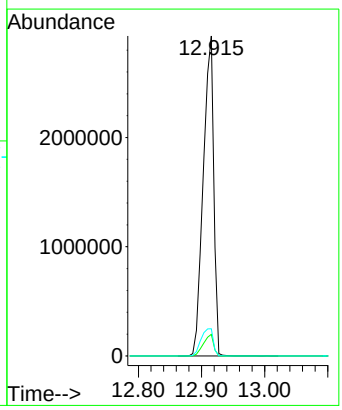
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

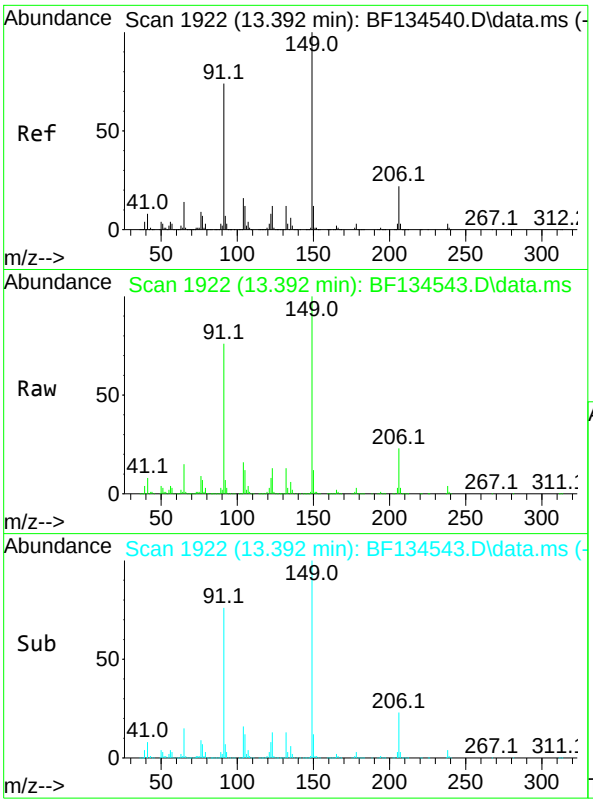


#79
Terphenyl-d14
Concen: 152.937 ng
RT: 12.915 min Scan# 1841
Delta R.T. 0.006 min
Lab File: BF134543.D
Acq: 01 Aug 2023 11:47

Tgt Ion:244 Resp: 3381587

Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.6	8.4
122	8.5	8.0	12.0

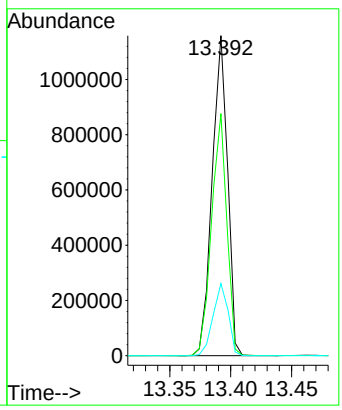




#80
Butylbenzylphthalate
Concen: 89.549 ng
RT: 13.392 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134543.D
Acq: 01 Aug 2023 11:47

Tgt Ion:149 Resp: 102132

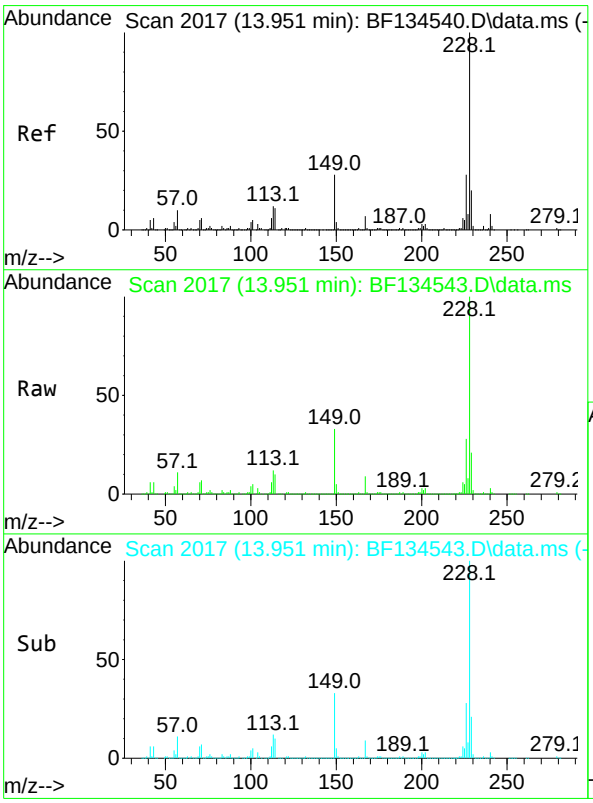
Ion	Ratio	Lower	Upper
149	100		
91	75.6	55.8	83.6
206	22.5	14.6	21.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

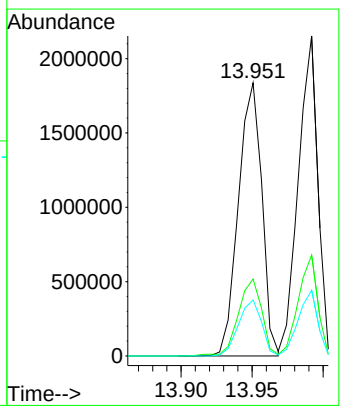
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

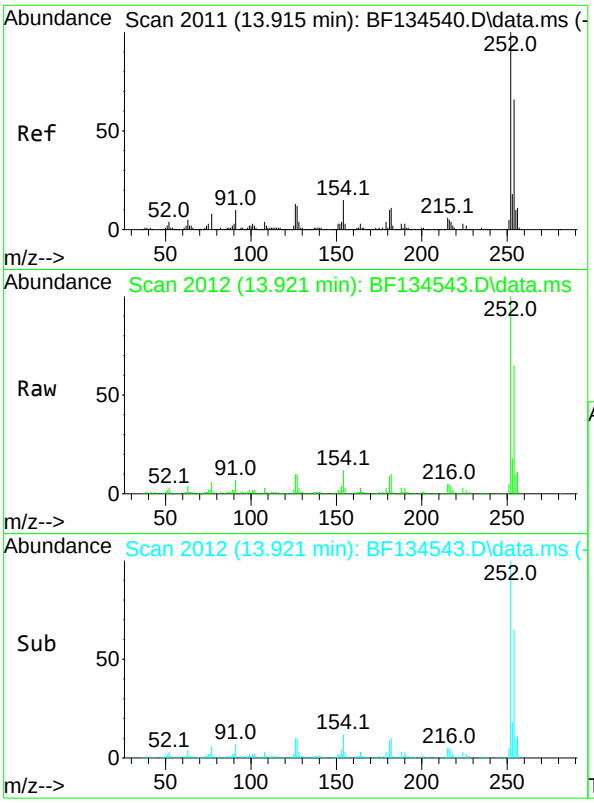


#81
Benzo(a)anthracene
Concen: 75.642 ng
RT: 13.951 min Scan# 2017
Delta R.T. 0.000 min
Lab File: BF134543.D
Acq: 01 Aug 2023 11:47

Tgt Ion:228 Resp: 2108277

Ion	Ratio	Lower	Upper
228	100		
226	28.2	22.3	33.5
229	20.5	15.8	23.6

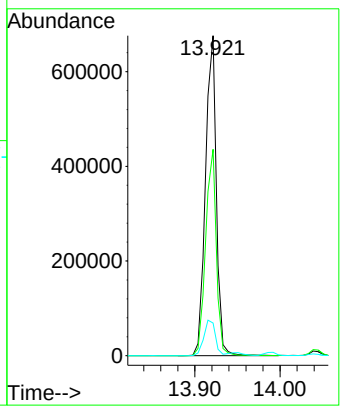




#82
3,3'-Dichlorobenzidine
Concen: 73.985 ng
RT: 13.921 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF134543.D
Acq: 01 Aug 2023 11:47

Tgt Ion:252 Resp: 59772

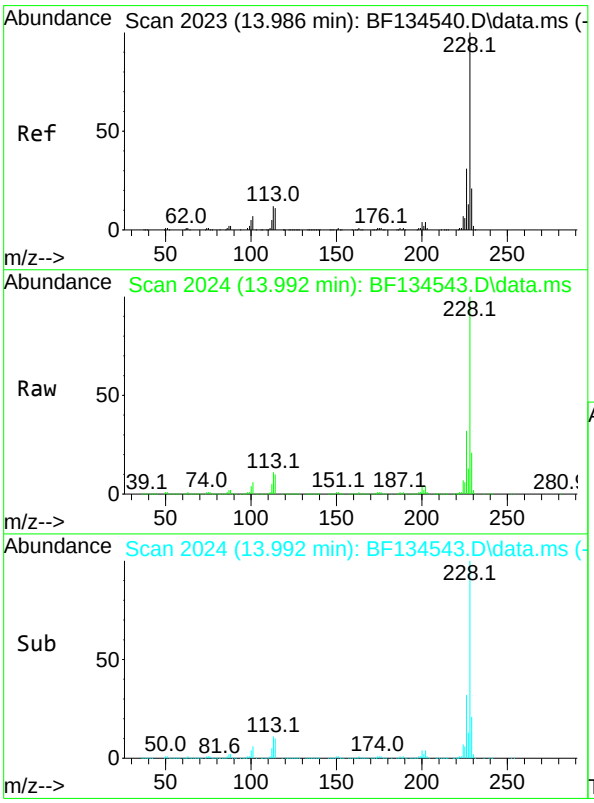
Ion	Ratio	Lower	Upper
252	100		
254	64.5	52.7	79.1
126	10.2	7.2	10.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

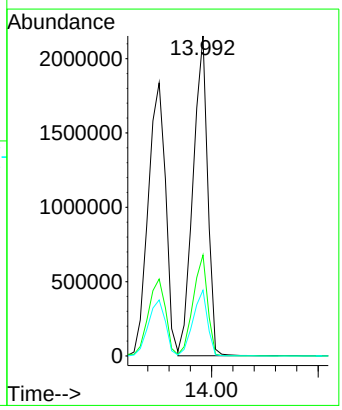
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

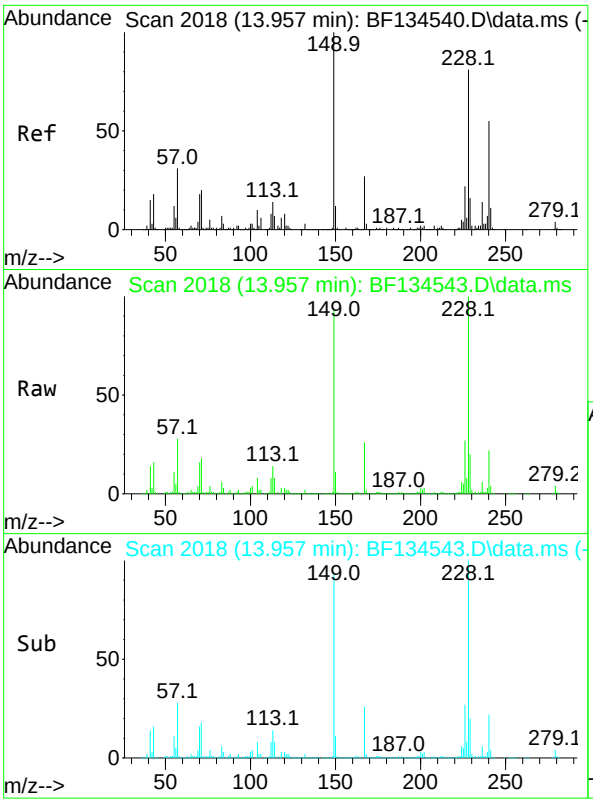


#83
Chrysene
Concen: 75.570 ng
RT: 13.992 min Scan# 2024
Delta R.T. 0.006 min
Lab File: BF134543.D
Acq: 01 Aug 2023 11:47

Tgt Ion:228 Resp: 2052055

Ion	Ratio	Lower	Upper
228	100		
226	31.5	24.5	36.7
229	20.6	15.8	23.8

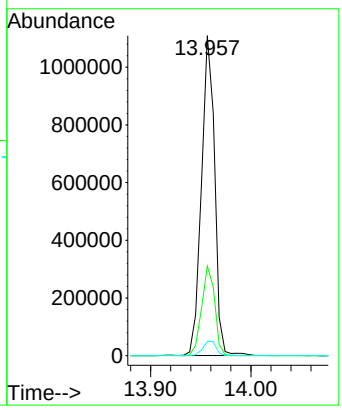




#84
Bis(2-ethylhexyl)phthalate
Concen: 75.795 ng
RT: 13.957 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF134543.D
Acq: 01 Aug 2023 11:47

Tgt Ion:149 Resp: 101729

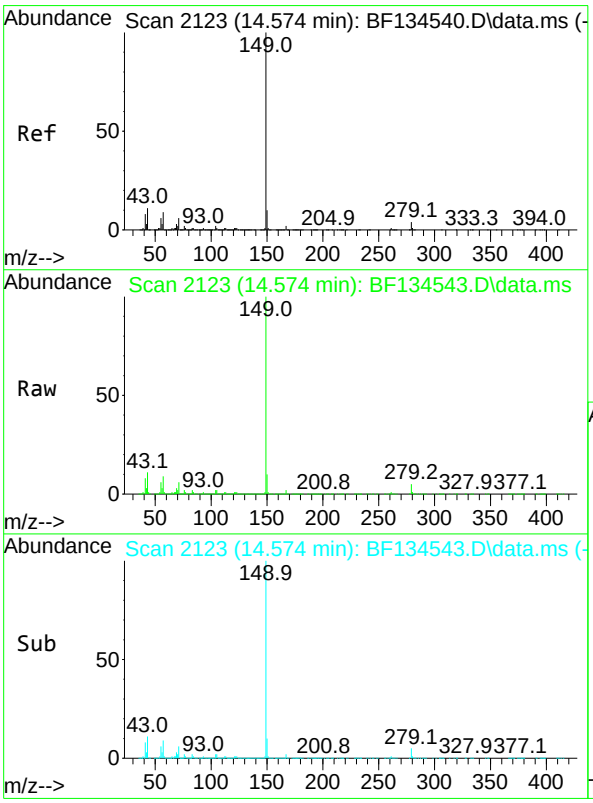
Ion	Ratio	Lower	Upper
149	100		
167	28.0	21.6	32.4
279	4.5	3.5	5.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

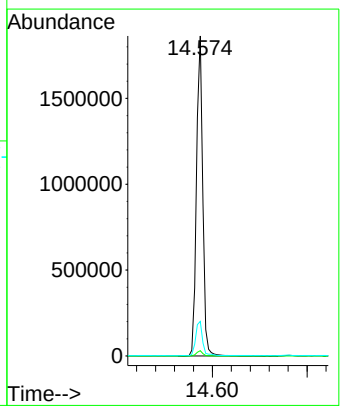
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

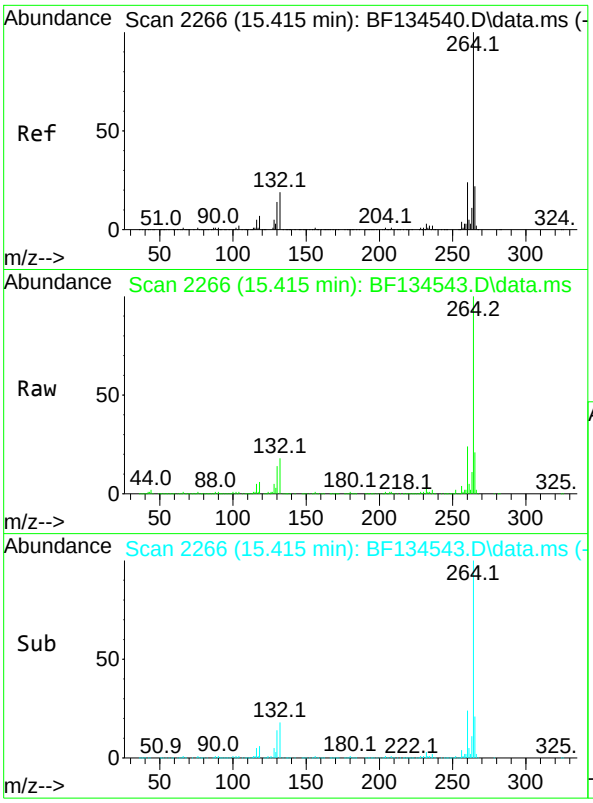


#85
Di-n-octyl phthalate
Concen: 83.624 ng
RT: 14.574 min Scan# 2123
Delta R.T. 0.000 min
Lab File: BF134543.D
Acq: 01 Aug 2023 11:47

Tgt Ion:149 Resp: 1706811

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.2	1.8
43	11.8	8.1	12.1

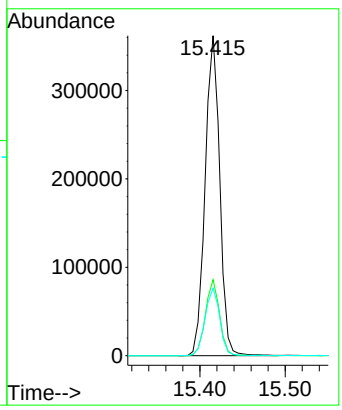




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.415 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF134543.D
Acq: 01 Aug 2023 11:47

Tgt Ion:264 Resp: 42962

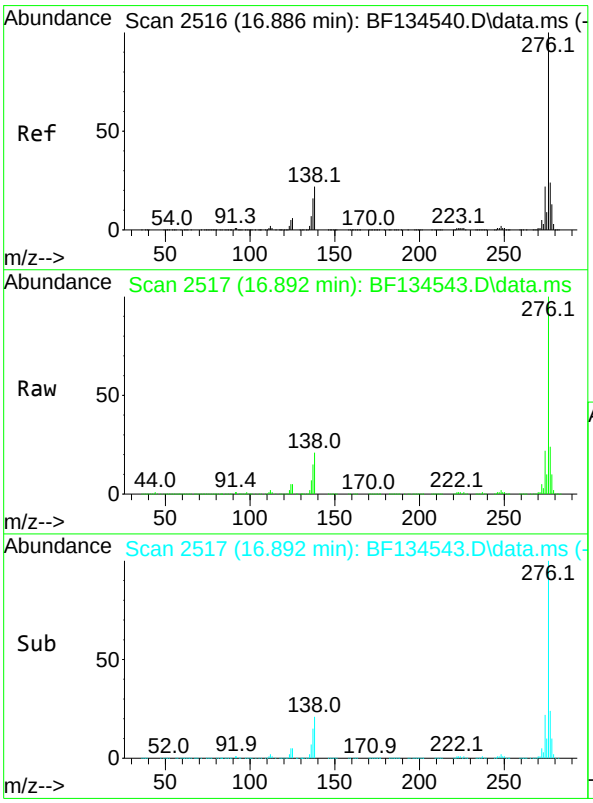
Ion	Ratio	Lower	Upper
264	100		
260	23.8	18.4	27.6
265	21.1	15.8	23.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

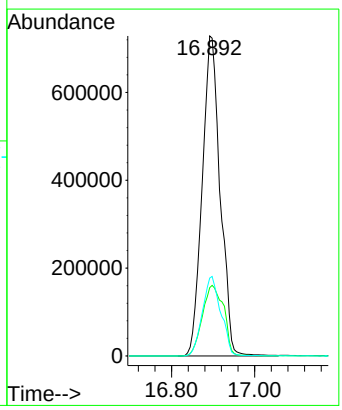
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

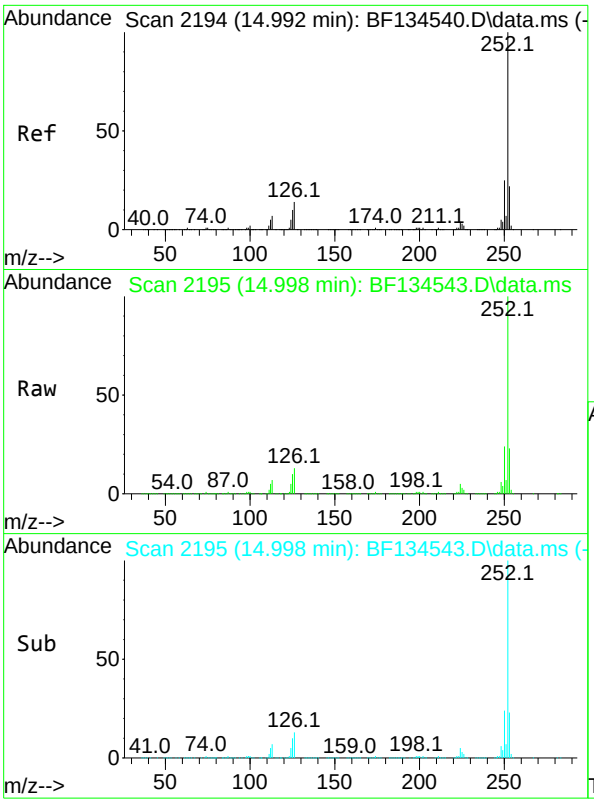


#87
Indeno(1,2,3-cd)pyrene
Concen: 86.648 ng
RT: 16.892 min Scan# 2517
Delta R.T. 0.006 min
Lab File: BF134543.D
Acq: 01 Aug 2023 11:47

Tgt Ion:276 Resp: 2189365

Ion	Ratio	Lower	Upper
276	100		
138	26.2	14.2	21.4#
277	25.6	19.9	29.9

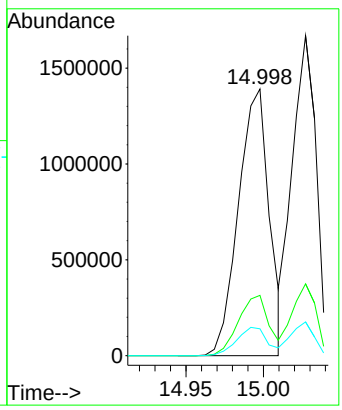




#88
Benzo(b)fluoranthene
Concen: 73.239 ng
RT: 14.998 min Scan# 21
Delta R.T. 0.006 min
Lab File: BF134543.D
Acq: 01 Aug 2023 11:47

Tgt Ion:252 Resp: 191904

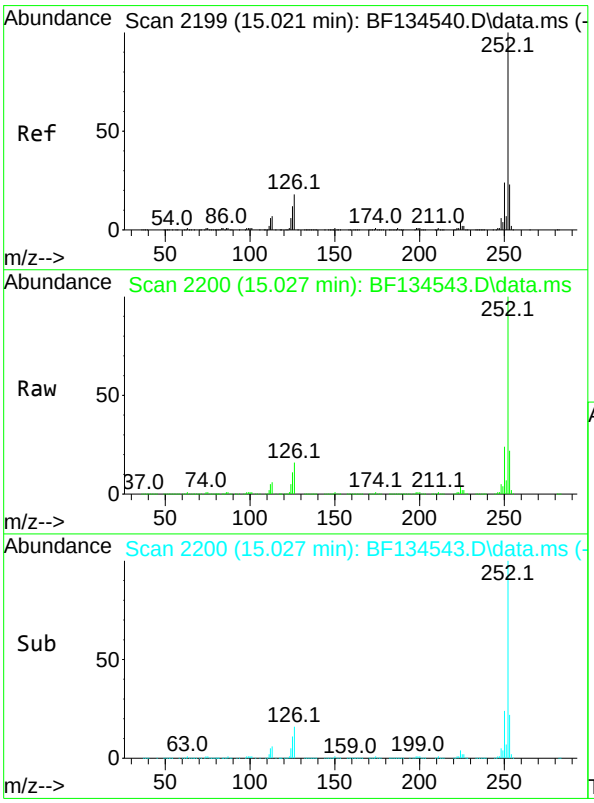
Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.3	25.9
125	10.1	6.0	9.0#



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

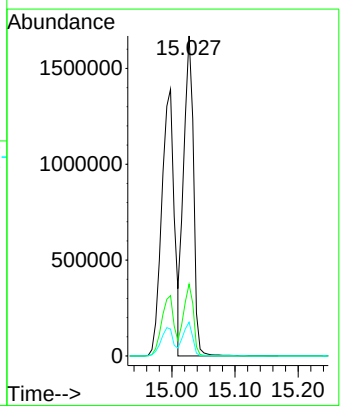
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

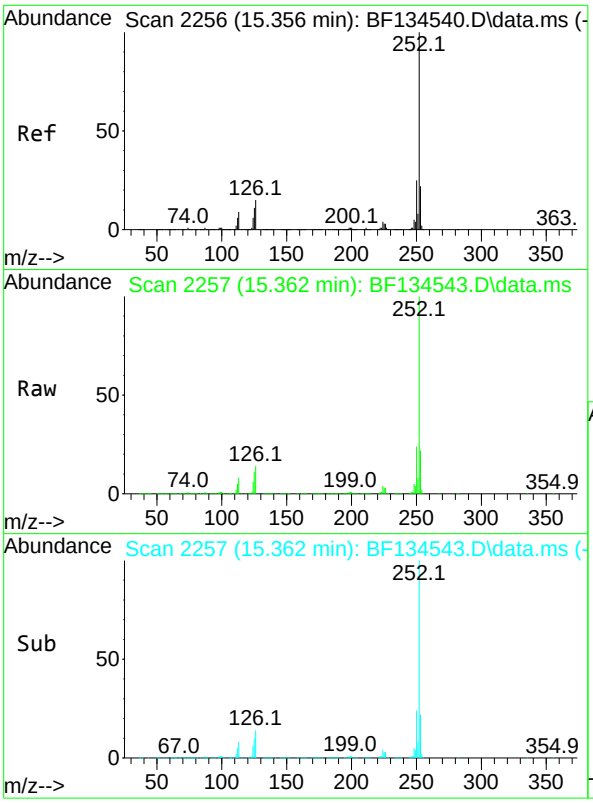


#89
Benzo(k)fluoranthene
Concen: 69.987 ng
RT: 15.027 min Scan# 2200
Delta R.T. 0.006 min
Lab File: BF134543.D
Acq: 01 Aug 2023 11:47

Tgt Ion:252 Resp: 1826804

Ion	Ratio	Lower	Upper
252	100		
253	22.5	17.9	26.9
125	10.5	6.3	9.5#

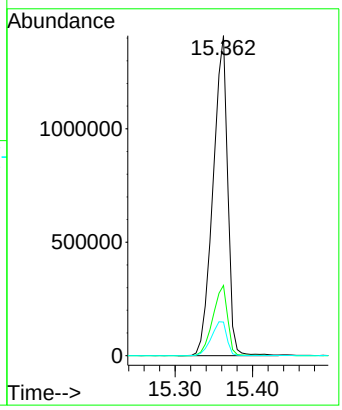




#90
Benzo(a)pyrene
Concen: 75.583 ng
RT: 15.362 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF134543.D
Acq: 01 Aug 2023 11:47

Tgt Ion:252 Resp: 184652

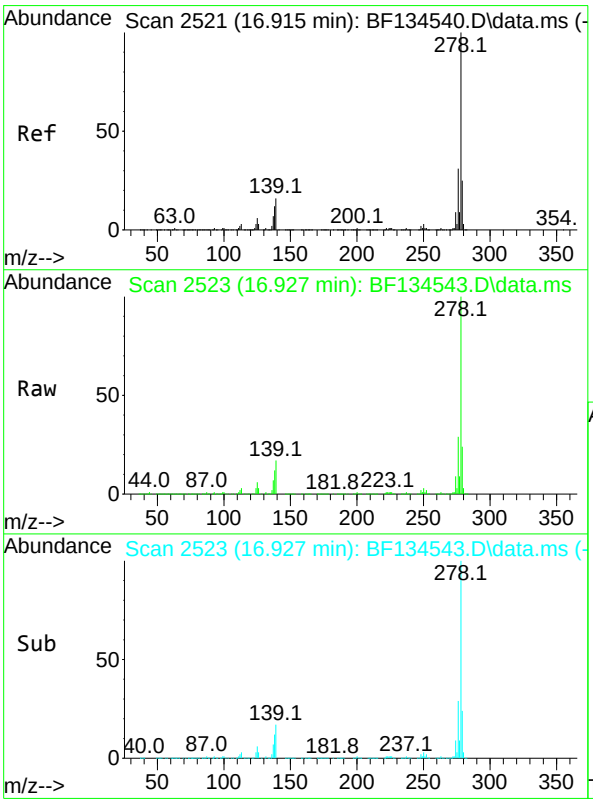
Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.0	25.4
125	10.5	6.2	9.4#



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

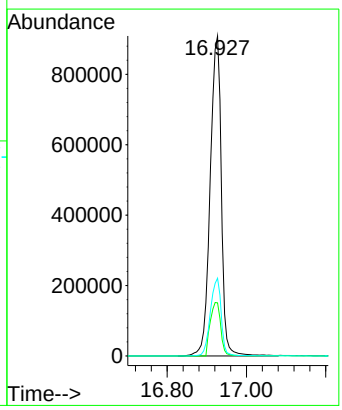
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

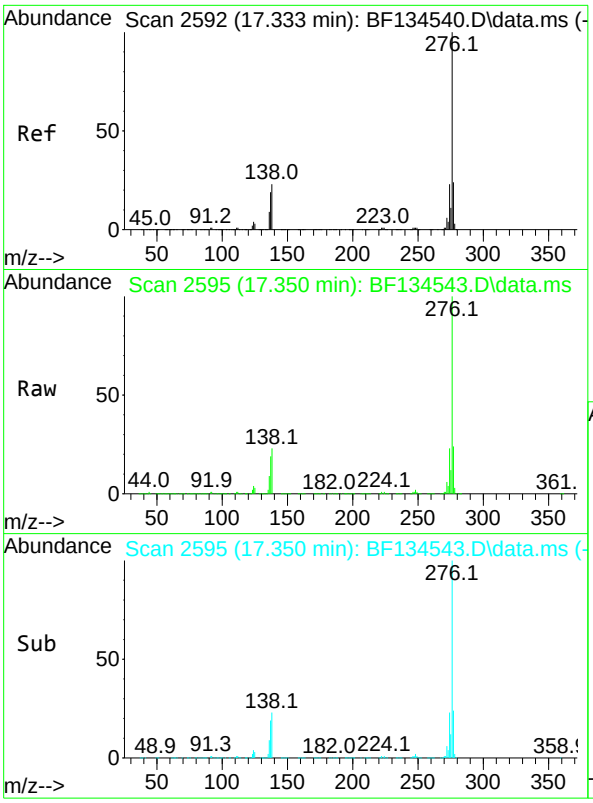


#91
Dibenzo(a,h)anthracene
Concen: 86.914 ng
RT: 16.927 min Scan# 2523
Delta R.T. 0.012 min
Lab File: BF134543.D
Acq: 01 Aug 2023 11:47

Tgt Ion:278 Resp: 1774780

Ion	Ratio	Lower	Upper
278	100		
139	16.6	10.0	15.0#
279	24.3	19.7	29.5

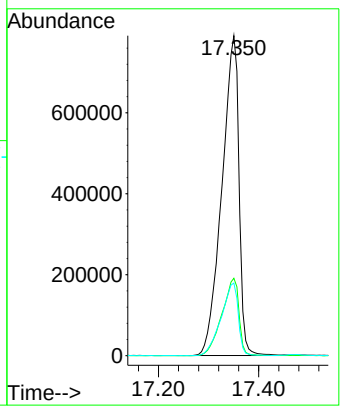




#92
Benzo(g,h,i)perylene
Concen: 89.797 ng
RT: 17.350 min Scan# 2
Delta R.T. 0.018 min
Lab File: BF134543.D
Acq: 01 Aug 2023 11:47

Tgt Ion:276 Resp: 187042

Ion	Ratio	Lower	Upper
276	100		
277	24.2	19.0	28.6
138	22.7	12.2	18.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080123\
Data File : BF134544.D
Acq On : 01 Aug 2023 12:50
Operator : CG\JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 02 02:22:23 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 02 02:20:34 2023
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
ICVBF080123

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.793	152	203904	20.000	ng		0.00
21) Naphthalene-d8	8.075	136	797297	20.000	ng	#	0.00
39) Acenaphthene-d10	9.828	164	404262	20.000	ng		0.00
64) Phenanthrene-d10	11.316	188	741217	20.000	ng	#	0.00
76) Chrysene-d12	13.957	240	482018	20.000	ng	#	0.00
86) Perylene-d12	15.410	264	429657	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.416	112	1015729	75.722	ng		0.00
7) Phenol-d6	6.422	99	1311185	76.467	ng		0.00
23) Nitrobenzene-d5	7.357	82	1077731	84.473	ng		0.00
42) 2,4,6-Tribromophenol	10.616	330	329386	79.927	ng		0.00
45) 2-Fluorobiphenyl	9.151	172	1871582	76.977	ng		0.00
79) Terphenyl-d14	12.910	244	2112369	77.255	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.546	88	235434	38.148	ng		96
3) Pyridine	3.293	79	642291	38.406	ng		93
4) n-Nitrosodimethylamine	3.258	42	309027	38.673	ng	#	68
6) Aniline	6.463	93	857285	38.117	ng		92
8) 2-Chlorophenol	6.581	128	526760	38.929	ng		95
9) Benzaldehyde	6.346	77	319830	38.105	ng		97
10) Phenol	6.440	94	658721m	38.983	ng		
11) bis(2-Chloroethyl)ether	6.540	93	519677	38.714	ng		92
12) 1,3-Dichlorobenzene	6.734	146	533993	38.142	ng		97
13) 1,4-Dichlorobenzene	6.810	146	543777	38.755	ng		98
14) 1,2-Dichlorobenzene	6.963	146	503049	38.479	ng		96
15) Benzyl Alcohol	6.934	79	468786	39.629	ng		95
16) 2,2'-oxybis(1-Chloropr...	7.075	45	810293	38.530	ng		89
17) 2-Methylphenol	7.046	107	465258	38.910	ng		91
18) Hexachloroethane	7.305	117	197610	40.128	ng		99
19) n-Nitroso-di-n-propyla...	7.210	70	387210	37.716	ng		93
20) 3+4-Methylphenols	7.199	107	563344	39.066	ng	#	71
22) Acetophenone	7.205	105	681818	37.043	ng	#	87
24) Nitrobenzene	7.375	77	562806	40.832	ng		97
25) Isophorone	7.616	82	1045306	37.564	ng		100
26) 2-Nitrophenol	7.687	139	235831	40.986	ng		94
27) 2,4-Dimethylphenol	7.728	122	480502	38.699	ng		83
28) bis(2-Chloroethoxy)met...	7.828	93	632463	37.995	ng		100
29) 2,4-Dichlorophenol	7.928	162	437893	38.858	ng		97
30) 1,2,4-Trichlorobenzene	8.016	180	465197	38.712	ng		98
31) Naphthalene	8.099	128	1511782	37.728	ng		99
32) Benzoic acid	7.840	122	315379	40.424	ng		91
33) 4-Chloroaniline	8.146	127	669747	37.512	ng		98
34) Hexachlorobutadiene	8.216	225	264877	38.213	ng		96
35) Caprolactam	8.516	113	140703	38.700	ng		97
36) 4-Chloro-3-methylphenol	8.622	107	457530	38.337	ng		91
37) 2-Methylnaphthalene	8.787	142	996527	37.519	ng		100
38) 1-Methylnaphthalene	8.887	142	932463	37.754	ng		97
40) 1,2,4,5-Tetrachloroben...	8.951	216	445276	37.878	ng		99
41) Hexachlorocyclopentadiene	8.940	237	231906	40.567	ng		93
43) 2,4,6-Trichlorophenol	9.057	196	306217	39.802	ng		98

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080123\
Data File : BF134544.D
Acq On : 01 Aug 2023 12:50
Operator : CG\JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF080123

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

Quant Time: Aug 02 02:22:23 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 02 02:20:34 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.093	196	348813	39.669	ng		94
46) 1,1'-Biphenyl	9.251	154	1189246	37.830	ng		97
47) 2-Chloronaphthalene	9.275	162	889959	37.782	ng		97
48) 2-Nitroaniline	9.369	65	290016	40.053	ng		98
49) Acenaphthylene	9.693	152	1396197	37.708	ng		99
50) Dimethylphthalate	9.557	163	1049202	38.079	ng		98
51) 2,6-Dinitrotoluene	9.616	165	223936	40.100	ng	#	84
52) Acenaphthene	9.863	154	903356	37.648	ng		98
53) 3-Nitroaniline	9.781	138	266843	43.450	ng		90
54) 2,4-Dinitrophenol	9.881	184	70832	41.497	ng		92
55) Dibenzofuran	10.034	168	1288113	37.710	ng		95
56) 4-Nitrophenol	9.934	139	205712	40.955	ng	#	72
57) 2,4-Dinitrotoluene	10.016	165	278825	41.313	ng	#	86
58) Fluorene	10.381	166	909435	36.552	ng		95
59) 2,3,4,6-Tetrachlorophenol	10.146	232	277150m	39.840	ng		
60) Diethylphthalate	10.257	149	998487	38.232	ng		96
61) 4-Chlorophenyl-phenyle...	10.375	204	449726	36.774	ng		91
62) 4-Nitroaniline	10.398	138	257885	42.842	ng		87
63) Azobenzene	10.534	77	1076670	38.370	ng		97
65) 4,6-Dinitro-2-methylph...	10.422	198	112842	39.539	ng		82
66) n-Nitrosodiphenylamine	10.493	169	881072	37.346	ng		99
67) 4-Bromophenyl-phenylether	10.863	248	304903	37.577	ng		97
68) Hexachlorobenzene	10.922	284	328096	38.292	ng		94
69) Atrazine	11.022	200	253789	39.911	ng		97
70) Pentachlorophenol	11.110	266	223645	42.156	ng		96
71) Phenanthrene	11.340	178	1458606	37.048	ng		100
72) Anthracene	11.392	178	1510083	37.550	ng		98
73) Carbazole	11.545	167	1346151	37.490	ng		99
74) Di-n-butylphthalate	11.887	149	1501150	39.352	ng		98
75) Fluoranthene	12.528	202	1554150	37.371	ng		97
77) Benzidine	12.651	184	399247	38.156	ng		97
78) Pyrene	12.757	202	1593671	38.209	ng		97
80) Butylbenzylphthalate	13.392	149	583113	41.344	ng	#	98
81) Benzo(a)anthracene	13.945	228	1295245	37.580	ng		99
82) 3,3'-Dichlorobenzidine	13.916	252	374433	37.479	ng	#	99
83) Chrysene	13.986	228	1274400	37.952	ng		99
84) Bis(2-ethylhexyl)phtha...	13.957	149	662500	39.915	ng		99
85) Di-n-octyl phthalate	14.575	149	990714	39.252	ng		97
87) Indeno(1,2,3-cd)pyrene	16.880	276	1001506	39.633	ng	#	92
88) Benzo(b)fluoranthene	14.986	252	1015565	38.756	ng	#	95
89) Benzo(k)fluoranthene	15.022	252	1013717	38.834	ng	#	98
90) Benzo(a)pyrene	15.351	252	939525	38.454	ng	#	96
91) Dibenzo(a,h)anthracene	16.910	278	823089	40.305	ng	#	95
92) Benzo(g,h,i)perylene	17.327	276	836172	40.140	ng	#	92

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

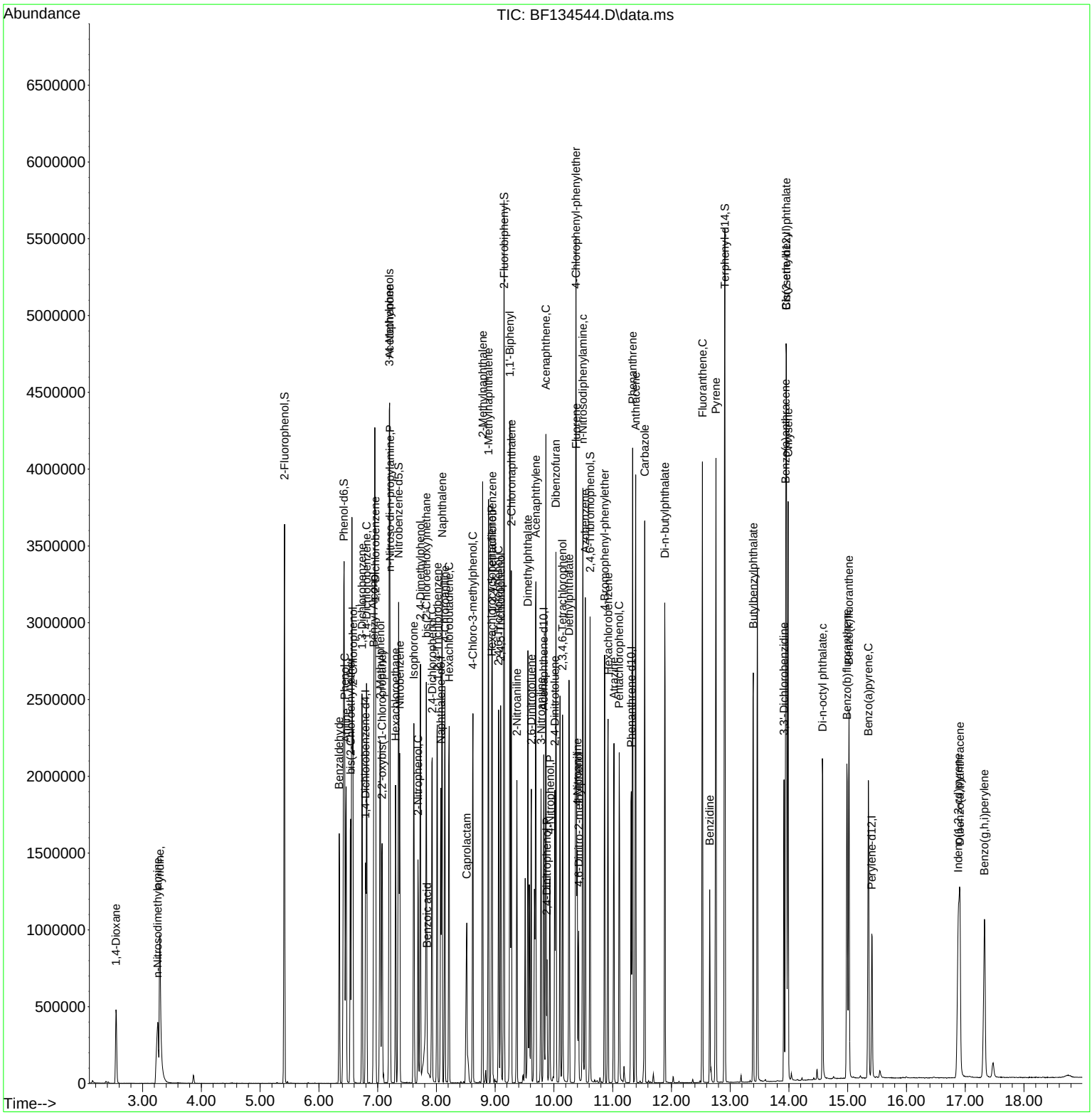
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080123\
Data File : BF134544.D
Acq On : 01 Aug 2023 12:50
Operator : CG\JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

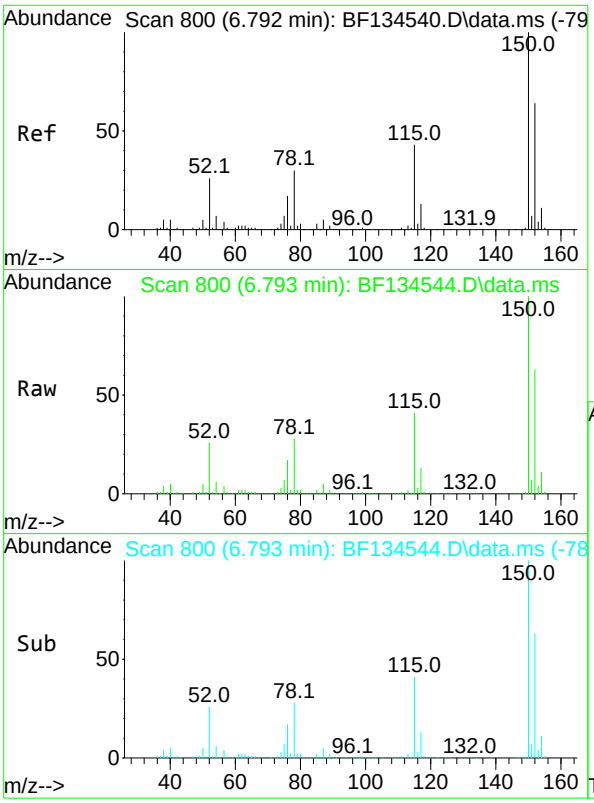
Quant Time: Aug 02 02:22:23 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 02 02:20:34 2023
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
ICVBF080123

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

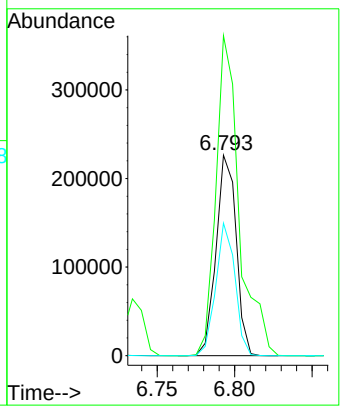




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.793 min Scan# 8
Delta R.T. 0.001 min
Lab File: BF134544.D
Acq: 01 Aug 2023 12:50

Tgt Ion:152 Resp: 20390

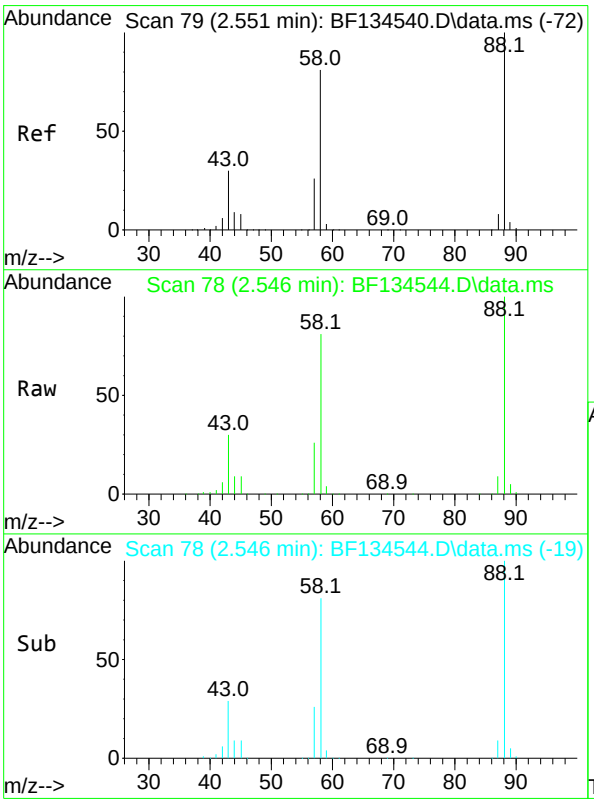
Ion	Ratio	Lower	Upper
152	100		
150	159.6	128.3	192.5
115	66.0	52.4	78.6



Instrument :
BNA_F
ClientSampleId :
ICVBF080123

Manual Integrations APPROVED

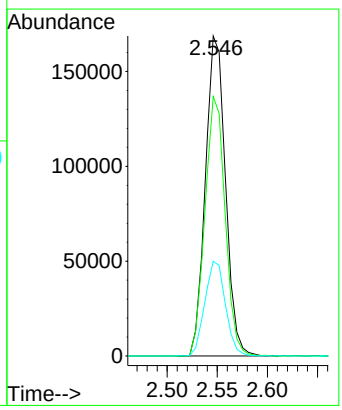
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

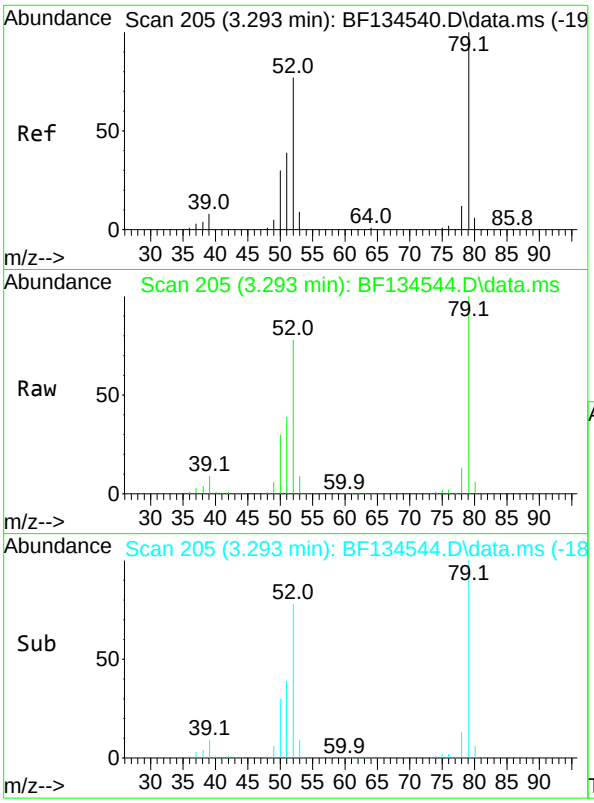


#2
1,4-Dioxane
Concen: 38.148 ng
RT: 2.546 min Scan# 78
Delta R.T. -0.005 min
Lab File: BF134544.D
Acq: 01 Aug 2023 12:50

Tgt Ion: 88 Resp: 235434

Ion	Ratio	Lower	Upper
88	100		
58	81.4	65.1	97.7
43	30.4	30.3	45.5

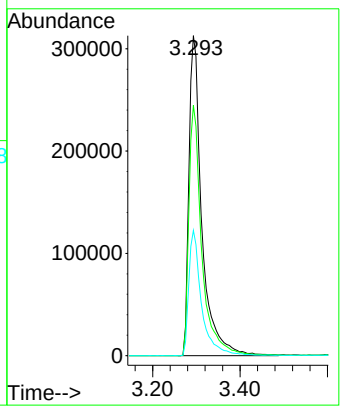




#3
Pyridine
Concen: 38.406 ng
RT: 3.293 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF134544.D
Acq: 01 Aug 2023 12:50

Tgt Ion: 79 Resp: 64229

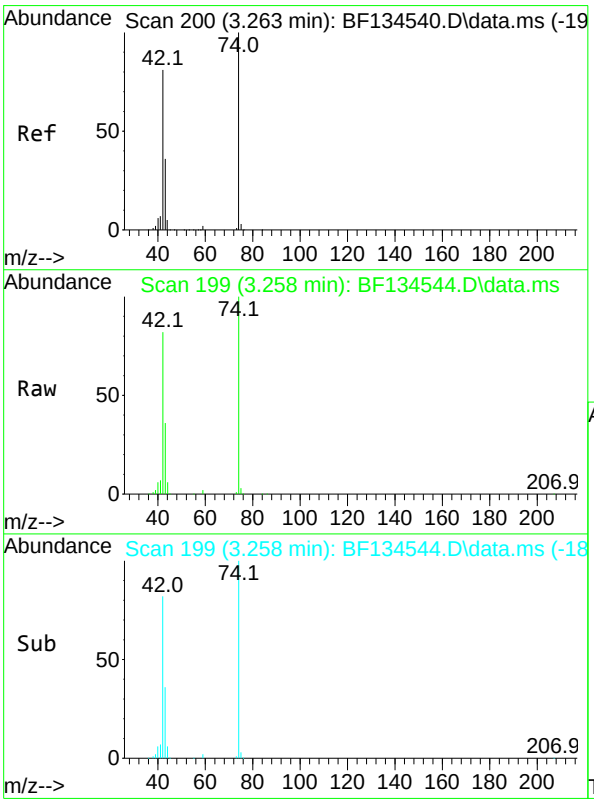
Ion	Ratio	Lower	Upper
79	100		
52	78.2	66.6	100.0
51	39.1	36.5	54.7



Instrument :
BNA_F
ClientSampleId :
ICVBF080123

Manual Integrations
APPROVED

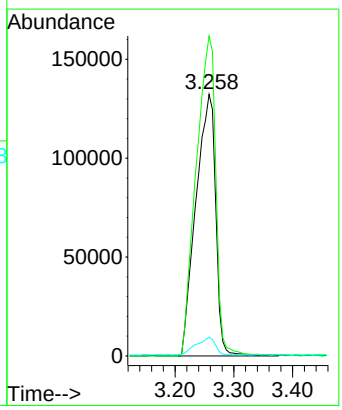
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

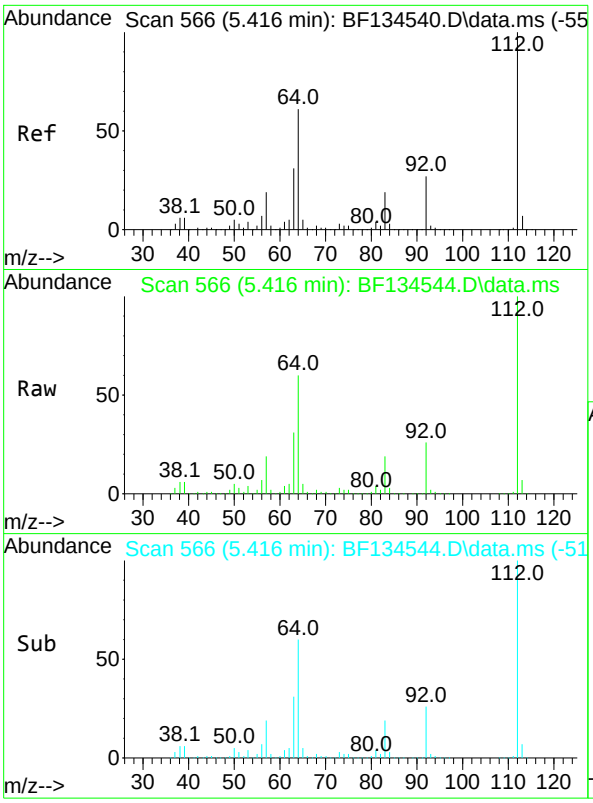


#4
n-Nitrosodimethylamine
Concen: 38.673 ng
RT: 3.258 min Scan# 199
Delta R.T. -0.005 min
Lab File: BF134544.D
Acq: 01 Aug 2023 12:50

Tgt Ion: 42 Resp: 309027

Ion	Ratio	Lower	Upper
42	100		
74	122.3	72.2	108.4#
44	7.2	5.4	8.0

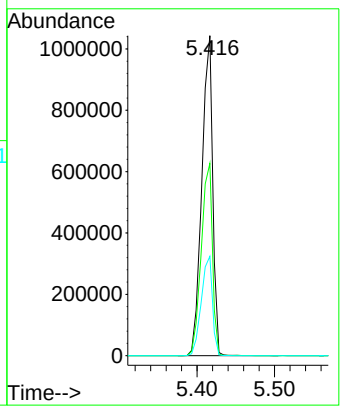




#5
2-Fluorophenol
Concen: 75.722 ng
RT: 5.416 min Scan# 5
Delta R.T. 0.000 min
Lab File: BF134544.D
Acq: 01 Aug 2023 12:50

Tgt Ion:112 Resp: 101572

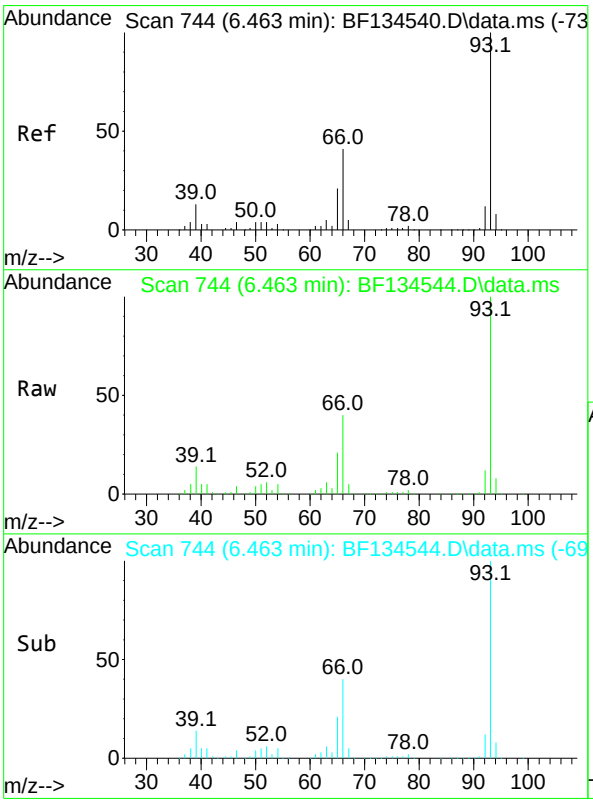
Ion	Ratio	Lower	Upper
112	100		
64	60.1	44.9	67.3
63	31.0	25.4	38.0



Instrument :
BNA_F
ClientSampleId :
ICVBF080123

Manual Integrations
APPROVED

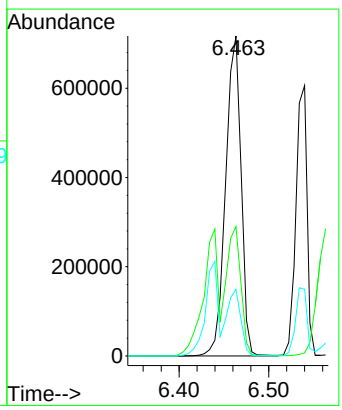
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

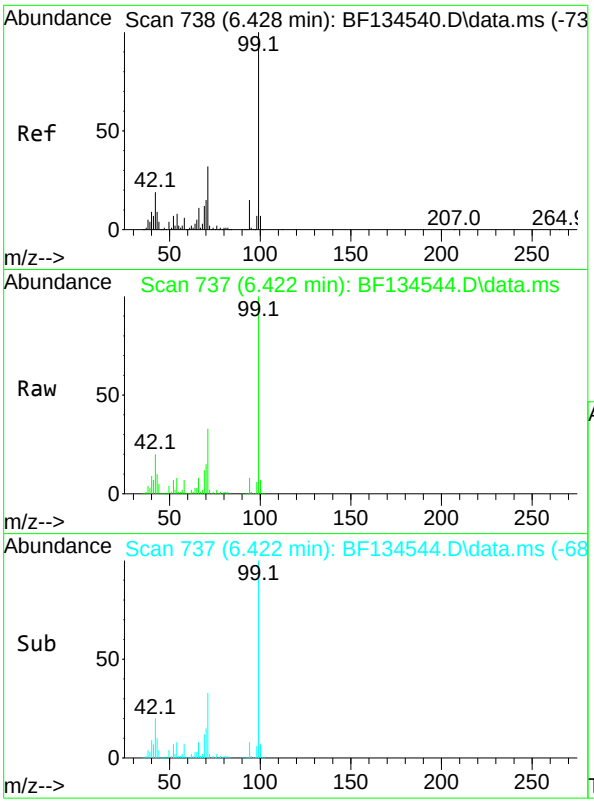


#6
Aniline
Concen: 38.117 ng
RT: 6.463 min Scan# 744
Delta R.T. 0.000 min
Lab File: BF134544.D
Acq: 01 Aug 2023 12:50

Tgt Ion: 93 Resp: 857285

Ion	Ratio	Lower	Upper
93	100		
66	40.5	36.8	55.2
65	20.8	19.4	29.0

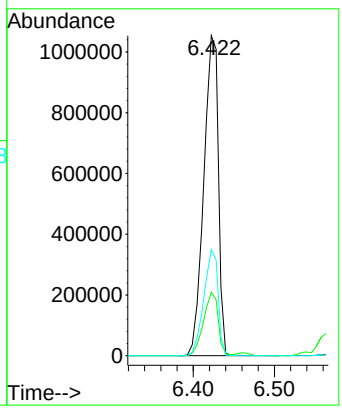




#7
Phenol-d6
Concen: 76.467 ng
RT: 6.422 min Scan# 7
Delta R.T. -0.005 min
Lab File: BF134544.D
Acq: 01 Aug 2023 12:50

Tgt Ion: 99 Resp: 131118

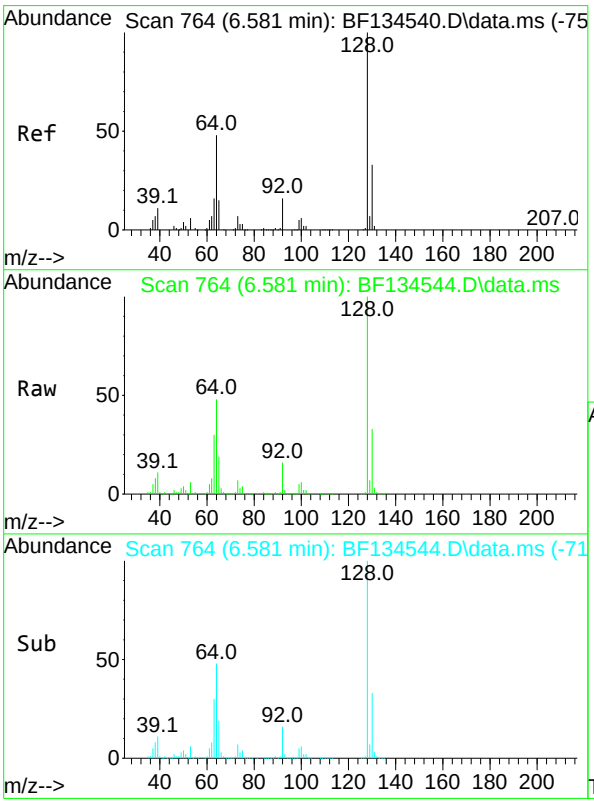
Ion	Ratio	Lower	Upper
99	100		
42	19.8	18.7	28.1
71	33.2	36.4	54.6



Instrument :
BNA_F
ClientSampleId :
ICVBF080123

Manual Integrations
APPROVED

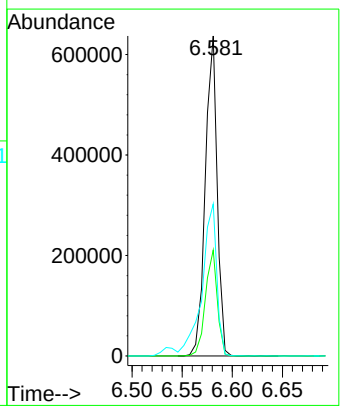
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

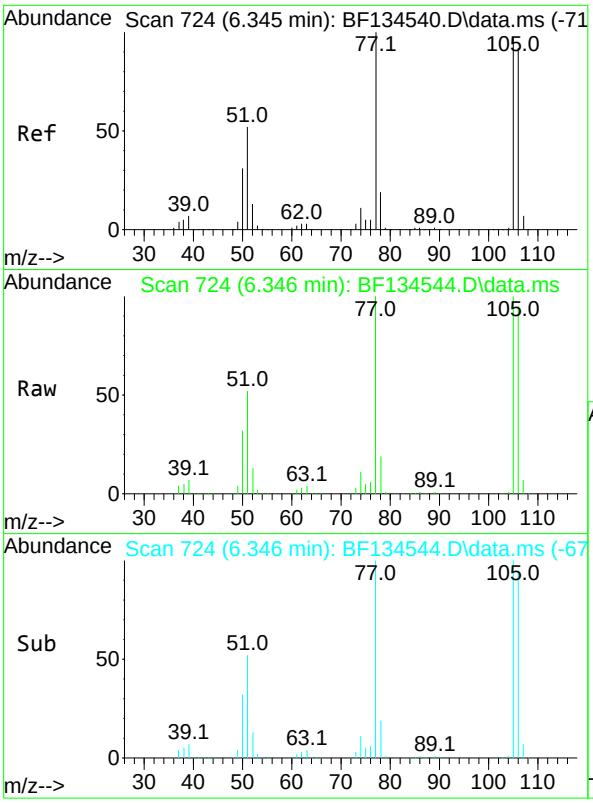


#8
2-Chlorophenol
Concen: 38.929 ng
RT: 6.581 min Scan# 764
Delta R.T. 0.000 min
Lab File: BF134544.D
Acq: 01 Aug 2023 12:50

Tgt Ion:128 Resp: 526760

Ion	Ratio	Lower	Upper
128	100		
130	33.1	11.1	51.1
64	47.5	31.9	71.9

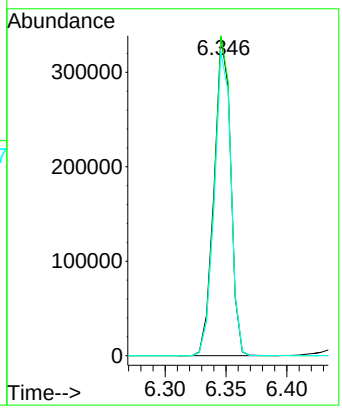




#9
Benzaldehyde
Concen: 38.105 ng
RT: 6.346 min Scan# 7
Delta R.T. 0.001 min
Lab File: BF134544.D
Acq: 01 Aug 2023 12:50

Tgt Ion: 77 Resp: 31983

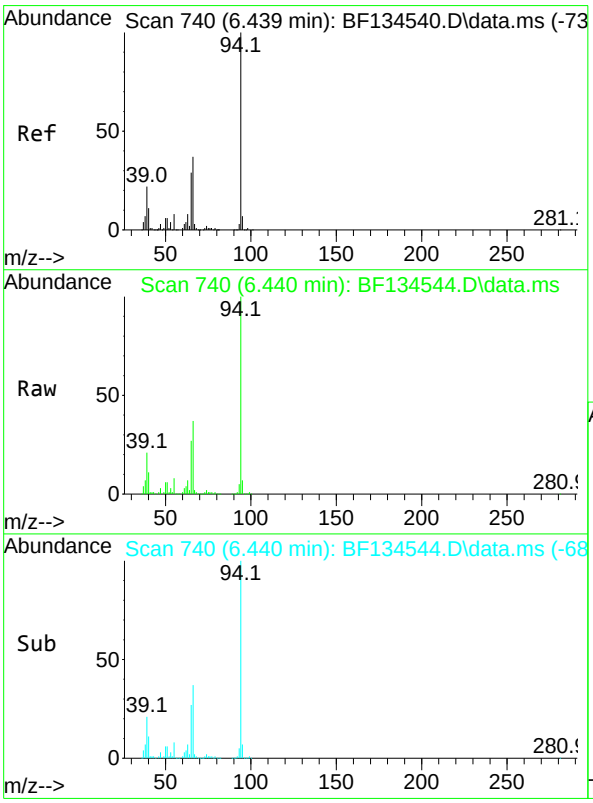
Ion	Ratio	Lower	Upper
77	100		
105	100.2	77.1	117.1
106	94.9	71.4	111.4



Instrument :
BNA_F
ClientSampleId :
ICVBF080123

Manual Integrations
APPROVED

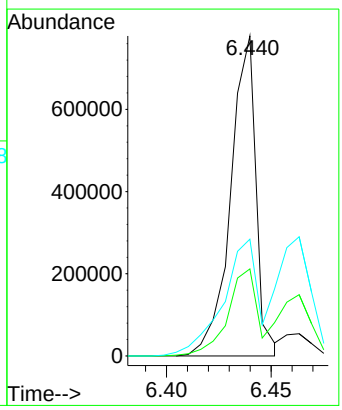
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

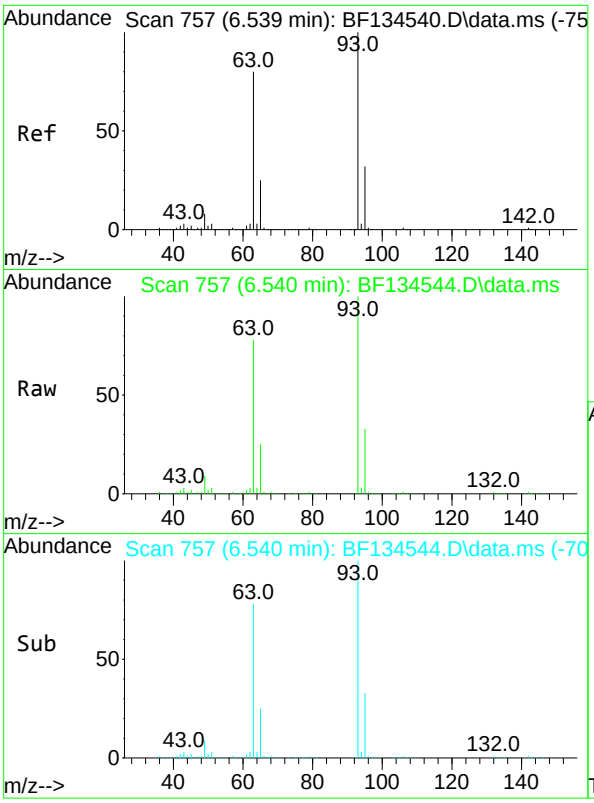


#10
Phenol
Concen: 38.983 ng m
RT: 6.440 min Scan# 740
Delta R.T. 0.000 min
Lab File: BF134544.D
Acq: 01 Aug 2023 12:50

Tgt Ion: 94 Resp: 658721

Ion	Ratio	Lower	Upper
94	100		
65	27.2	17.8	57.8
66	36.5	35.2	75.2

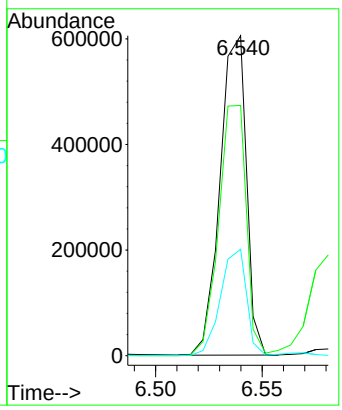




#11
bis(2-Chloroethyl)ether
Concen: 38.714 ng
RT: 6.540 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF134544.D
Acq: 01 Aug 2023 12:50

Tgt Ion: 93 Resp: 51967

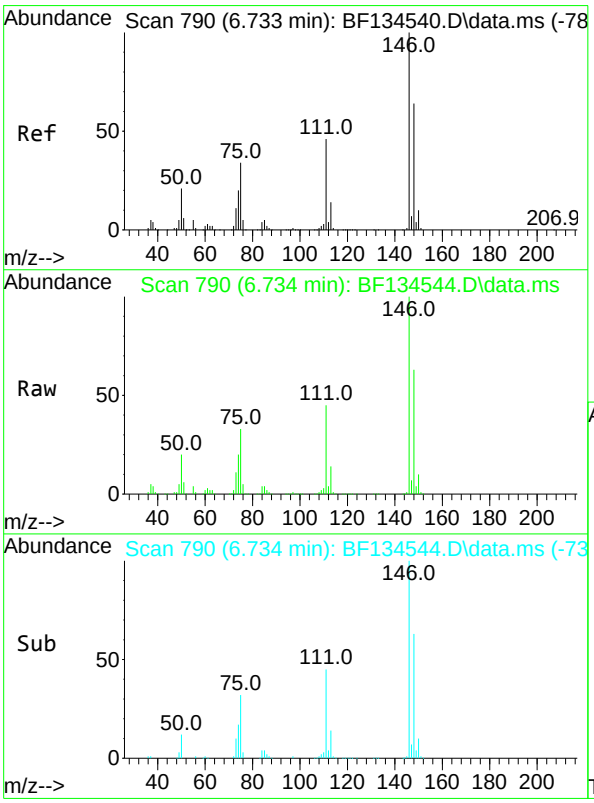
Ion	Ratio	Lower	Upper
93	100		
63	78.2	68.4	108.4
95	33.3	12.4	52.4



Instrument :
BNA_F
ClientSampleId :
ICVBF080123

Manual Integrations APPROVED

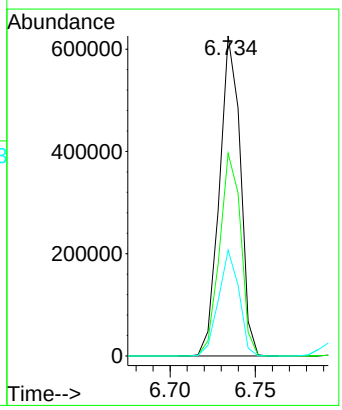
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

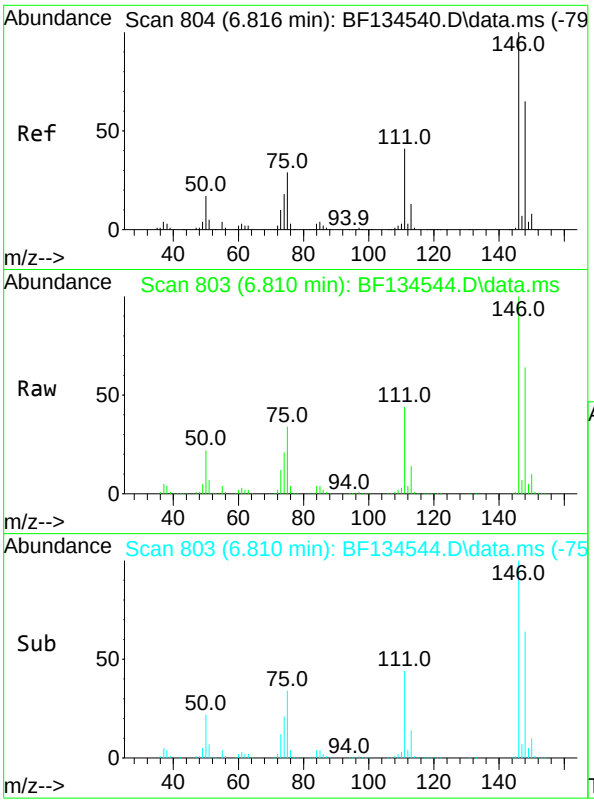


#12
1,3-Dichlorobenzene
Concen: 38.142 ng
RT: 6.734 min Scan# 790
Delta R.T. 0.000 min
Lab File: BF134544.D
Acq: 01 Aug 2023 12:50

Tgt Ion:146 Resp: 533993

Ion	Ratio	Lower	Upper
146	100		
148	63.4	49.7	74.5
75	33.1	29.5	44.3

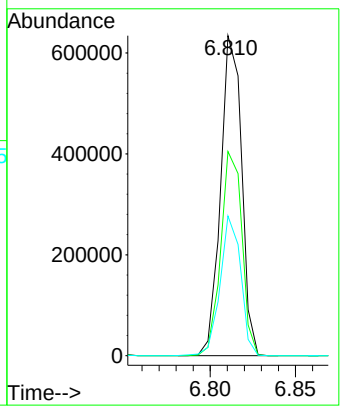




#13
1,4-Dichlorobenzene
Concen: 38.755 ng
RT: 6.810 min Scan# 8
Delta R.T. -0.005 min
Lab File: BF134544.D
Acq: 01 Aug 2023 12:50

Tgt Ion:146 Resp: 54377

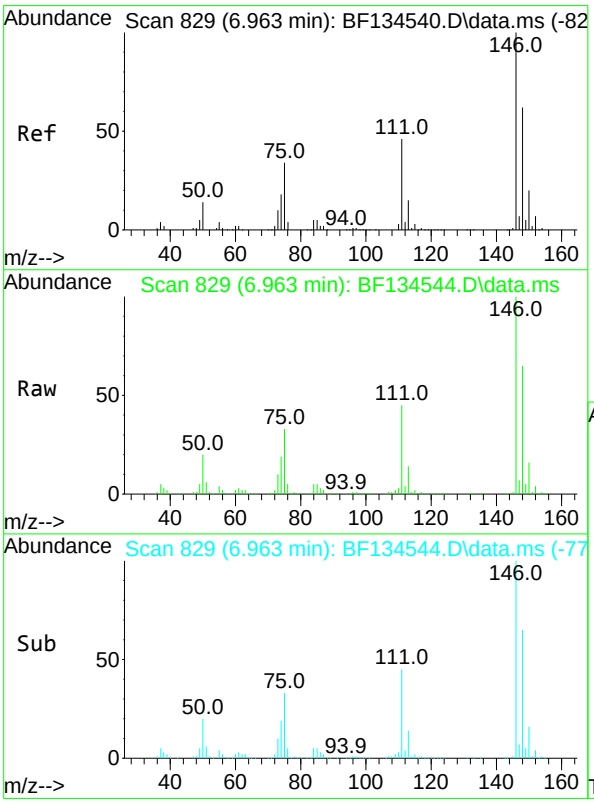
Ion	Ratio	Lower	Upper
146	100		
148	63.8	51.3	76.9
111	43.7	36.6	55.0



Instrument :
BNA_F
ClientSampleId :
ICVBF080123

Manual Integrations
APPROVED

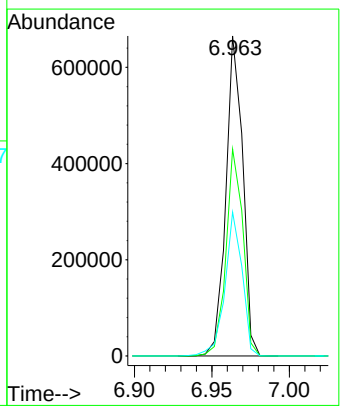
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

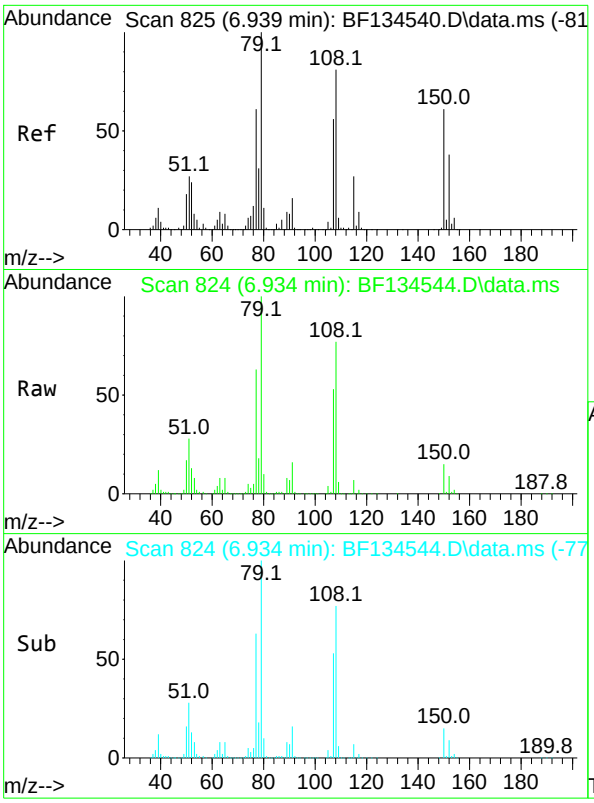


#14
1,2-Dichlorobenzene
Concen: 38.479 ng
RT: 6.963 min Scan# 829
Delta R.T. 0.000 min
Lab File: BF134544.D
Acq: 01 Aug 2023 12:50

Tgt Ion:146 Resp: 503049

Ion	Ratio	Lower	Upper
146	100		
148	64.7	51.2	76.8
111	44.9	39.9	59.9

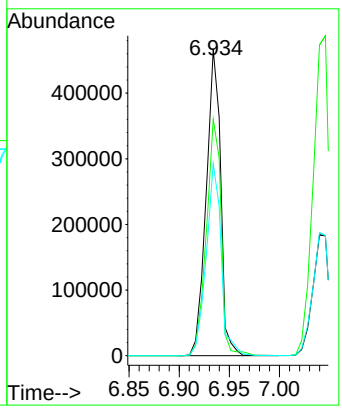




#15
Benzyl Alcohol
Concen: 39.629 ng
RT: 6.934 min Scan# 8
Delta R.T. -0.005 min
Lab File: BF134544.D
Acq: 01 Aug 2023 12:50

Tgt Ion: 79 Resp: 46878

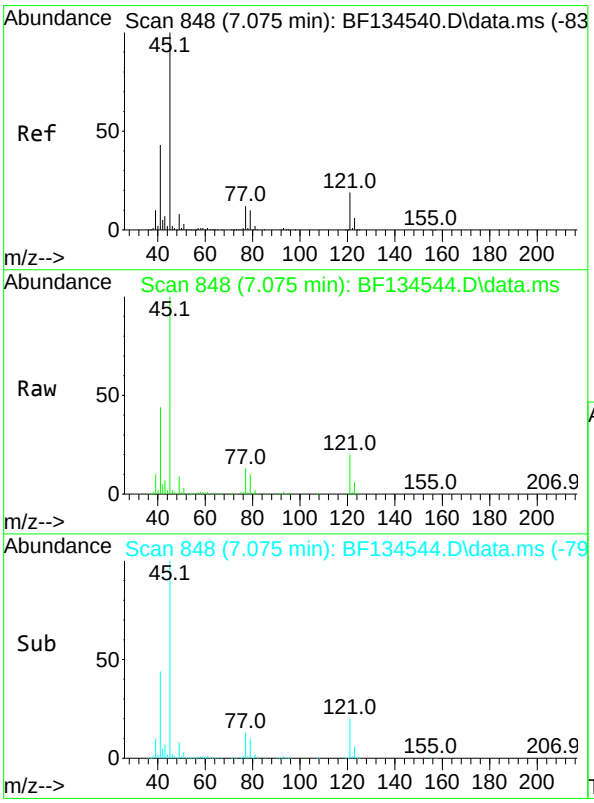
Ion	Ratio	Lower	Upper
79	100		
108	77.1	56.3	84.5
77	62.6	50.6	76.0



Instrument :
BNA_F
ClientSampleId :
ICVBF080123

Manual Integrations
APPROVED

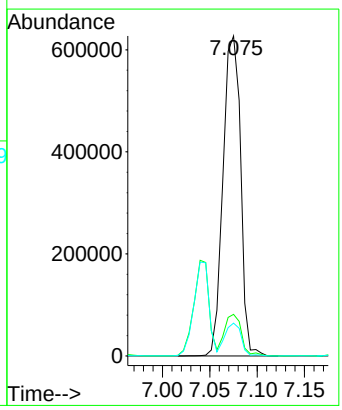
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

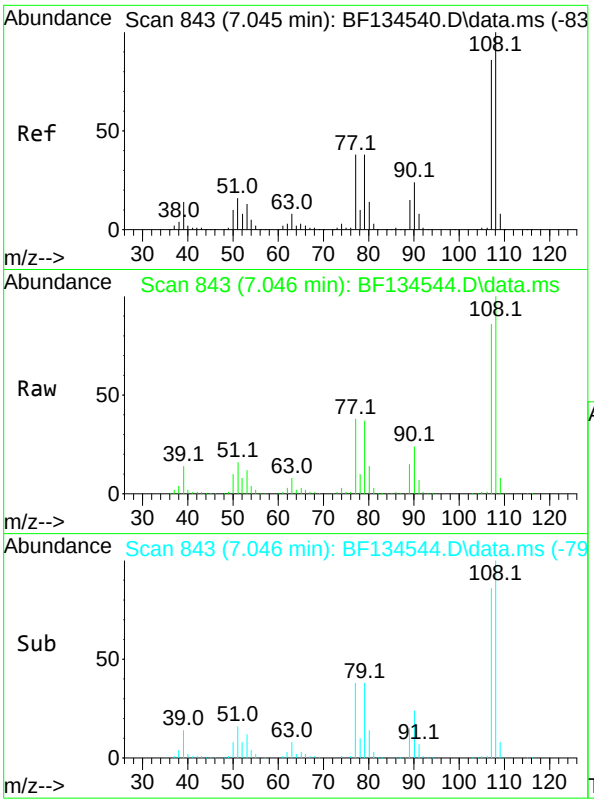


#16
2,2'-oxybis(1-Chloropropane)
Concen: 38.530 ng
RT: 7.075 min Scan# 848
Delta R.T. 0.000 min
Lab File: BF134544.D
Acq: 01 Aug 2023 12:50

Tgt Ion: 45 Resp: 810293

Ion	Ratio	Lower	Upper
45	100		
77	13.0	0.0	37.8
79	10.2	0.0	34.5

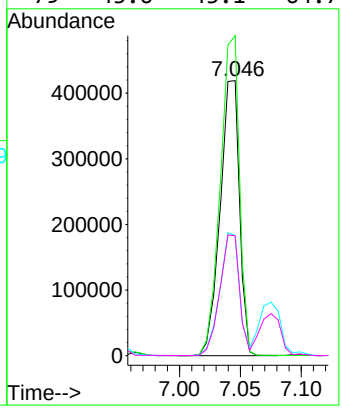




#17
2-Methylphenol
Concen: 38.910 ng
RT: 7.046 min Scan# 84
Delta R.T. 0.000 min
Lab File: BF134544.D
Acq: 01 Aug 2023 12:50

Tgt Ion:107 Resp: 46525

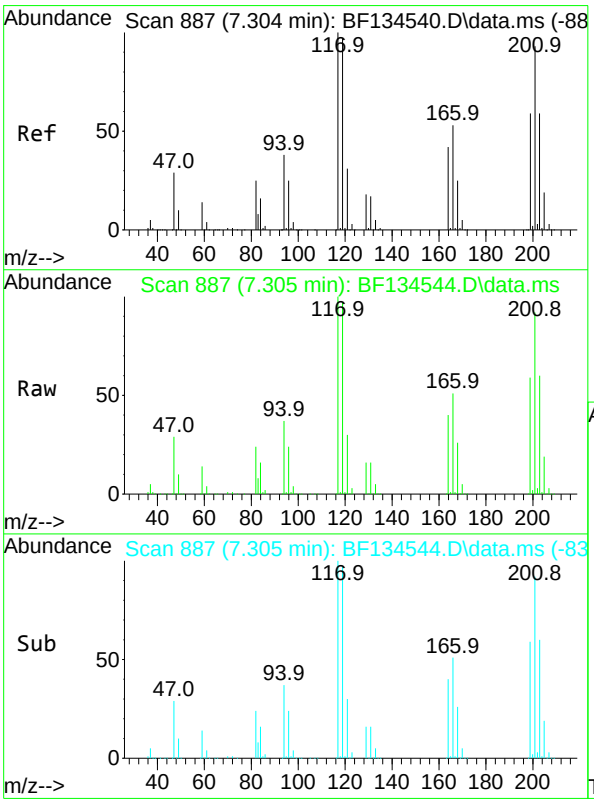
Ion	Ratio	Lower	Upper
107	100		
108	116.4	89.4	134.2
77	43.7	42.4	63.6
79	43.6	43.1	64.7



Instrument :
BNA_F
ClientSampleId :
ICVBF080123

Manual Integrations
APPROVED

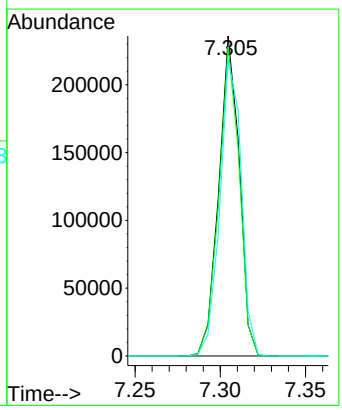
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

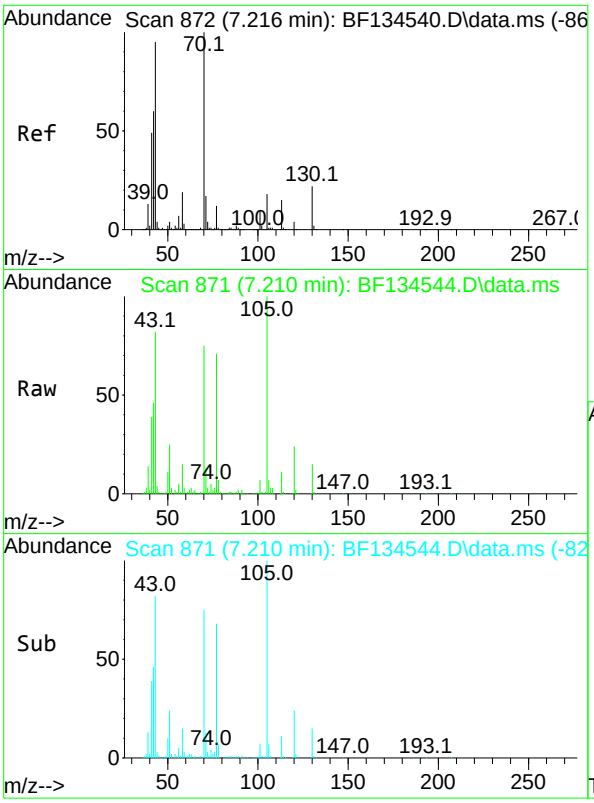


#18
Hexachloroethane
Concen: 40.128 ng
RT: 7.305 min Scan# 887
Delta R.T. 0.000 min
Lab File: BF134544.D
Acq: 01 Aug 2023 12:50

Tgt Ion:117 Resp: 197610

Ion	Ratio	Lower	Upper
117	100		
119	96.6	75.8	113.8
201	92.5	73.6	110.4

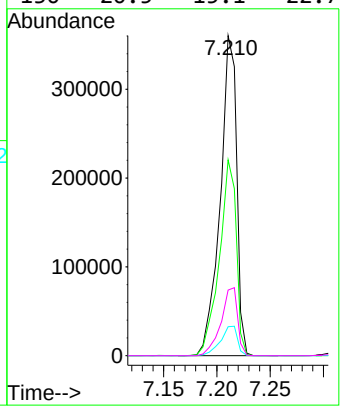




#19
n-Nitroso-di-n-propylamine
Concen: 37.716 ng
RT: 7.210 min Scan# 8
Delta R.T. -0.005 min
Lab File: BF134544.D
Acq: 01 Aug 2023 12:50

Tgt Ion: 70 Resp: 38721

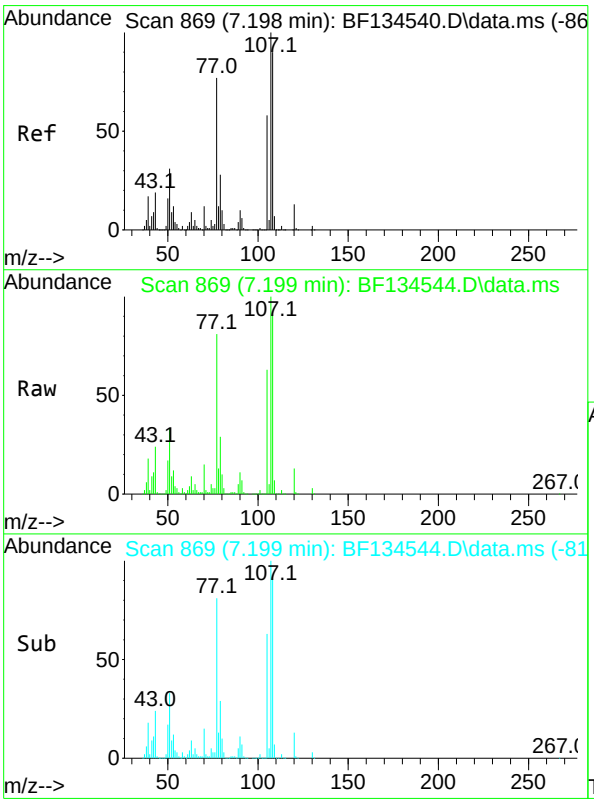
Ion	Ratio	Lower	Upper
70	100		
42	61.2	54.7	82.1
101	9.1	8.2	12.2
130	20.5	15.1	22.7



Instrument :
BNA_F
ClientSampleId :
ICVBF080123

Manual Integrations
APPROVED

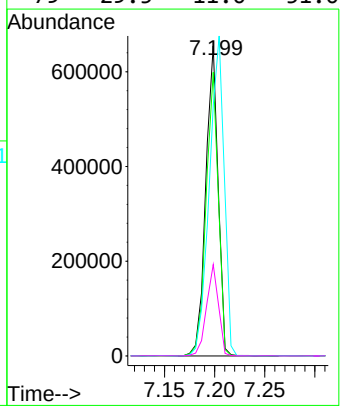
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

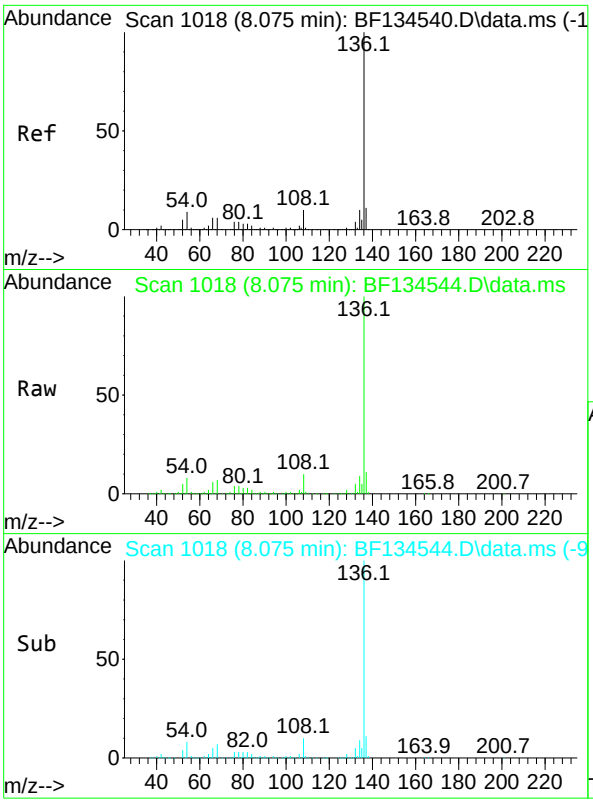


#20
3+4-Methylphenols
Concen: 39.066 ng
RT: 7.199 min Scan# 869
Delta R.T. 0.000 min
Lab File: BF134544.D
Acq: 01 Aug 2023 12:50

Tgt Ion:107 Resp: 563344

Ion	Ratio	Lower	Upper
107	100		
108	91.5	68.1	108.1
77	80.7	122.1	162.1#
79	29.5	11.0	51.0

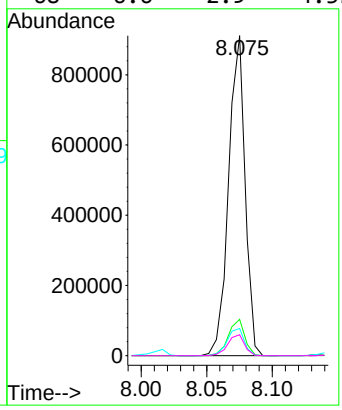




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.075 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134544.D
Acq: 01 Aug 2023 12:50

Tgt Ion:136 Resp: 79729

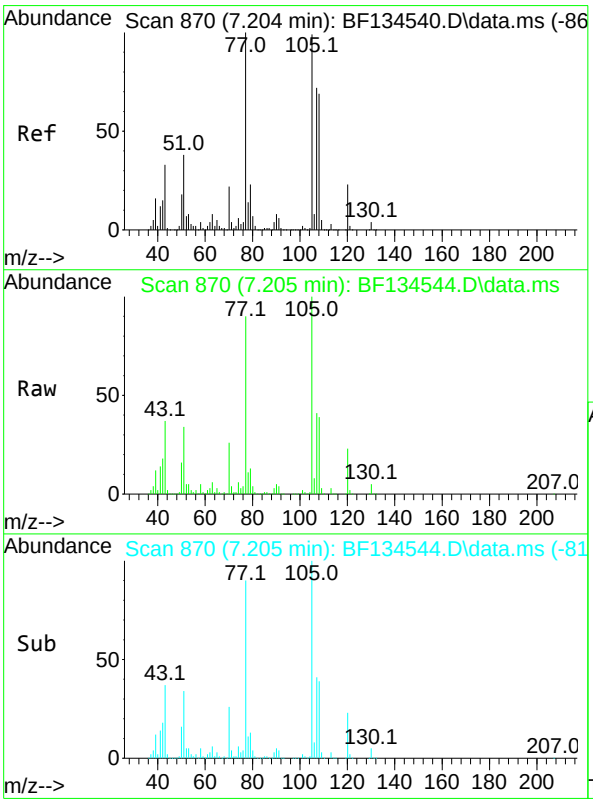
Ion	Ratio	Lower	Upper
136	100		
137	11.3	8.4	12.6
54	8.5	5.2	7.8#
68	6.6	2.9	4.3#



Instrument :
BNA_F
ClientSampleId :
ICVBF080123

Manual Integrations APPROVED

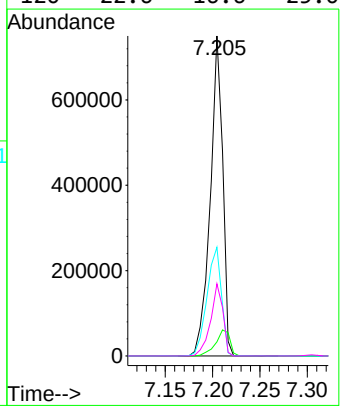
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

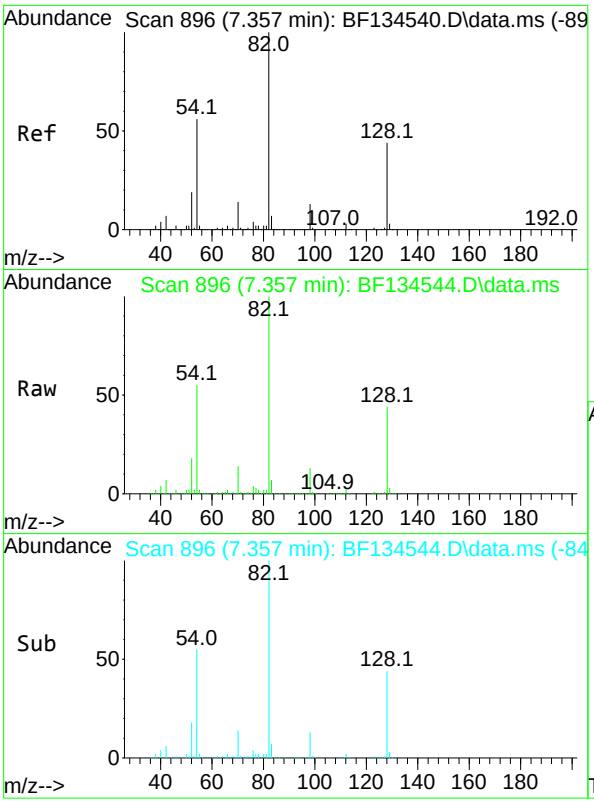


#22
Acetophenone
Concen: 37.043 ng
RT: 7.205 min Scan# 870
Delta R.T. 0.000 min
Lab File: BF134544.D
Acq: 01 Aug 2023 12:50

Tgt Ion:105 Resp: 681818

Ion	Ratio	Lower	Upper
105	100		
71	4.4	7.4	11.0#
51	33.9	36.4	54.6#
120	22.6	16.6	25.0

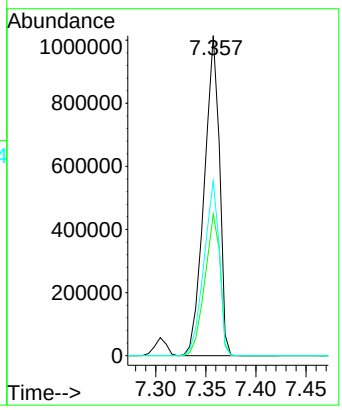




#23
Nitrobenzene-d5
Concen: 84.473 ng
RT: 7.357 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF134544.D
Acq: 01 Aug 2023 12:50

Tgt Ion: 82 Resp: 107773

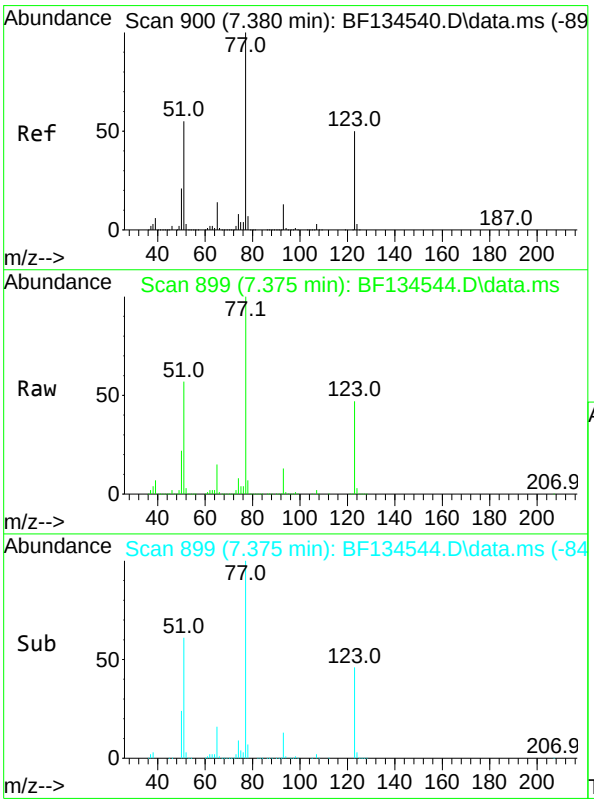
Ion	Ratio	Lower	Upper
82	100		
128	44.2	34.3	51.5
54	54.6	43.8	65.6



Instrument :
BNA_F
ClientSampleId :
ICVBF080123

Manual Integrations APPROVED

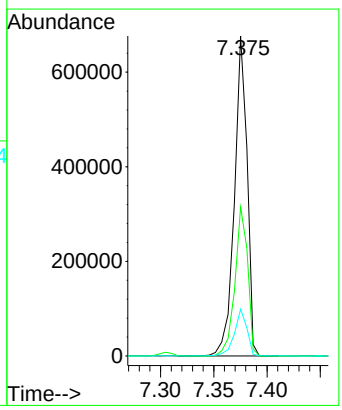
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

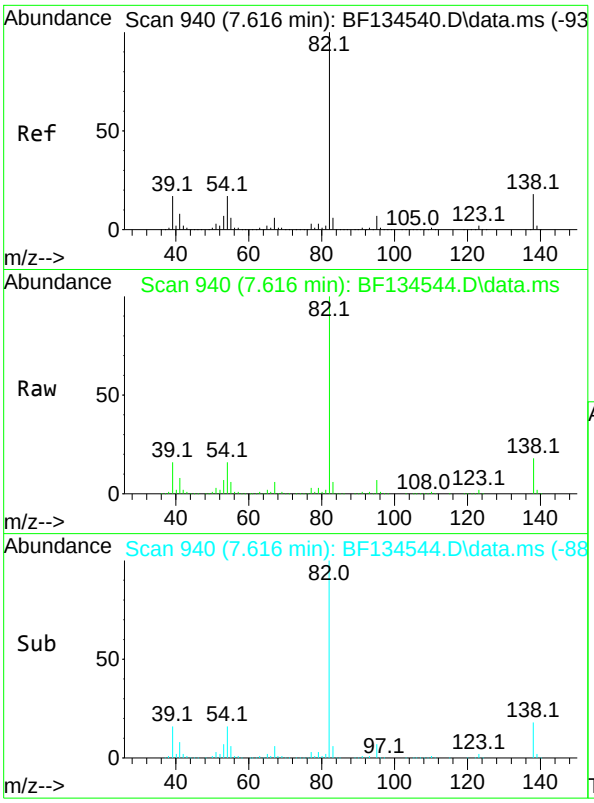


#24
Nitrobenzene
Concen: 40.832 ng
RT: 7.375 min Scan# 899
Delta R.T. -0.005 min
Lab File: BF134544.D
Acq: 01 Aug 2023 12:50

Tgt Ion: 77 Resp: 562806

Ion	Ratio	Lower	Upper
77	100		
123	46.5	35.5	53.3
65	14.6	11.9	17.9

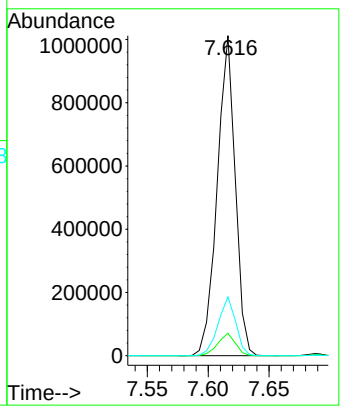




#25
Isophorone
Concen: 37.564 ng
RT: 7.616 min Scan# 94
Delta R.T. 0.000 min
Lab File: BF134544.D
Acq: 01 Aug 2023 12:50

Tgt Ion: 82 Resp: 104530

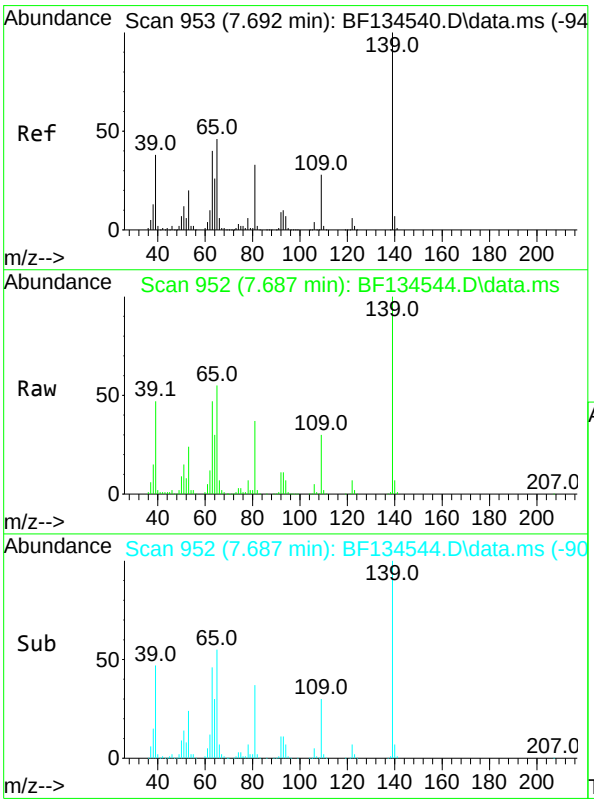
Ion	Ratio	Lower	Upper
82	100		
95	7.0	6.0	9.0
138	18.3	14.6	22.0



Instrument :
BNA_F
ClientSampleId :
ICVBF080123

Manual Integrations
APPROVED

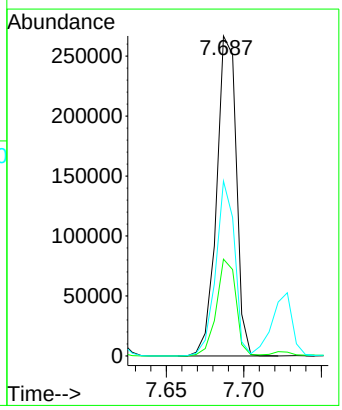
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

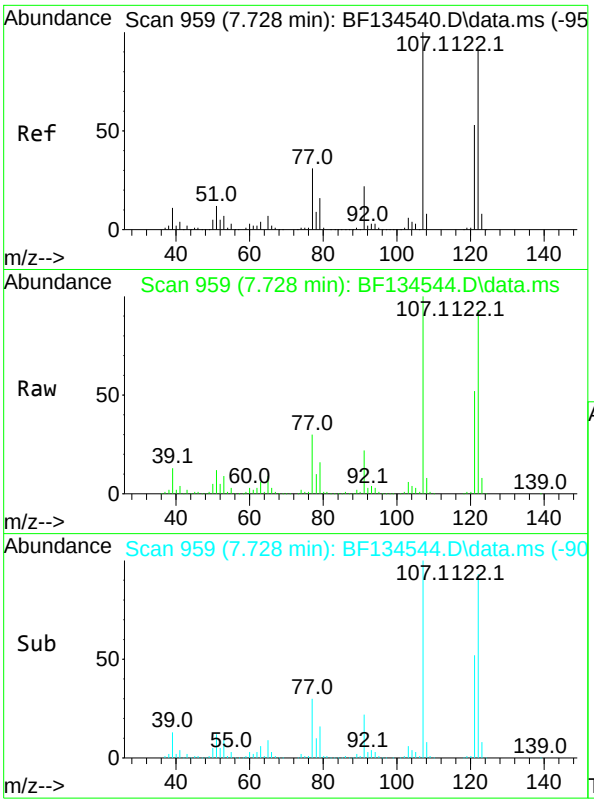


#26
2-Nitrophenol
Concen: 40.986 ng
RT: 7.687 min Scan# 952
Delta R.T. -0.005 min
Lab File: BF134544.D
Acq: 01 Aug 2023 12:50

Tgt Ion:139 Resp: 235831

Ion	Ratio	Lower	Upper
139	100		
109	30.3	29.8	44.6
65	54.7	45.4	68.2

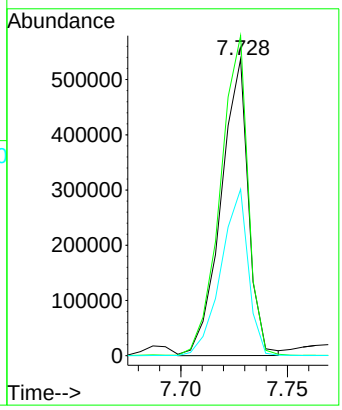




#27
2,4-Dimethylphenol
Concen: 38.699 ng
RT: 7.728 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF134544.D
Acq: 01 Aug 2023 12:50

Tgt Ion:122 Resp: 48050

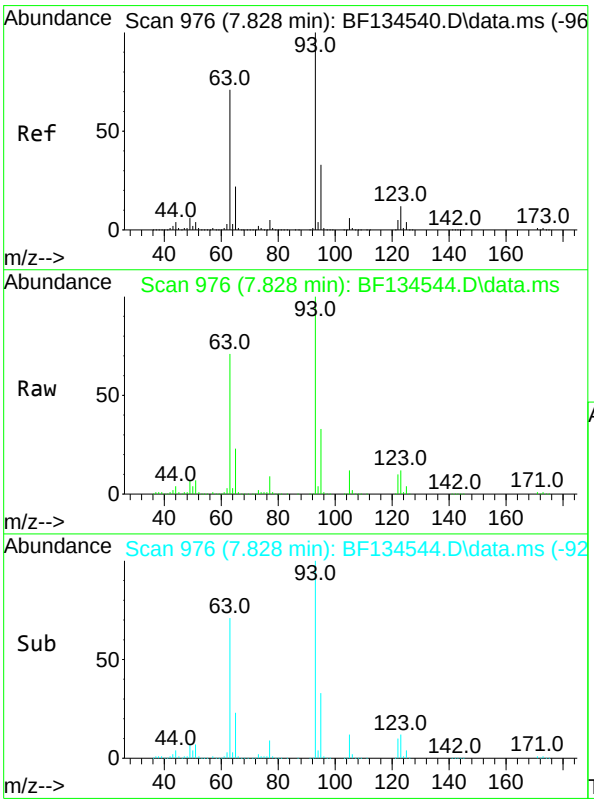
Ion	Ratio	Lower	Upper
122	100		
107	107.9	106.7	160.1
121	56.1	49.0	73.6



Instrument :
BNA_F
ClientSampleId :
ICVBF080123

Manual Integrations
APPROVED

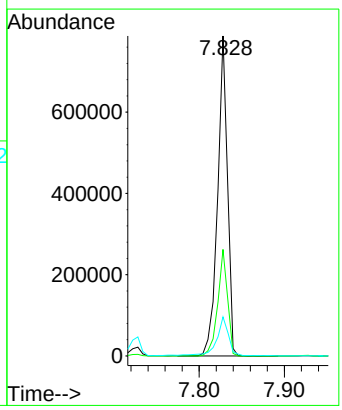
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

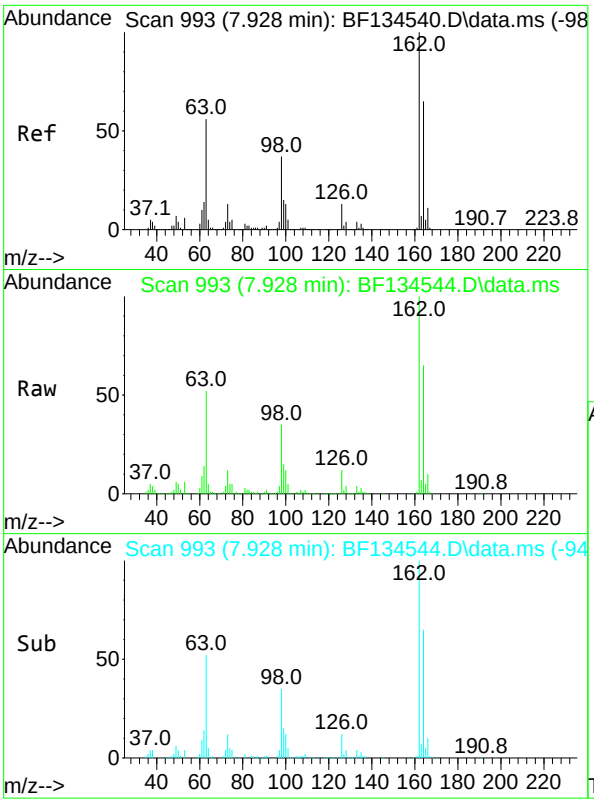


#28
bis(2-Chloroethoxy)methane
Concen: 37.995 ng
RT: 7.828 min Scan# 976
Delta R.T. 0.000 min
Lab File: BF134544.D
Acq: 01 Aug 2023 12:50

Tgt Ion: 93 Resp: 632463

Ion	Ratio	Lower	Upper
93	100		
95	33.3	26.5	39.7
123	12.2	9.6	14.4

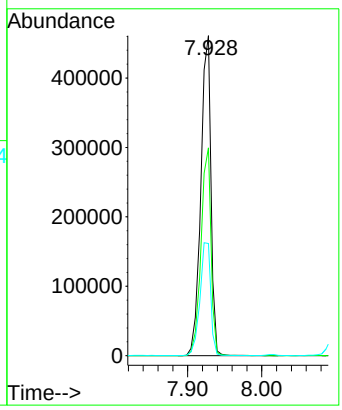




#29
2,4-Dichlorophenol
Concen: 38.858 ng
RT: 7.928 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF134544.D
Acq: 01 Aug 2023 12:50

Tgt Ion:162 Resp: 43789

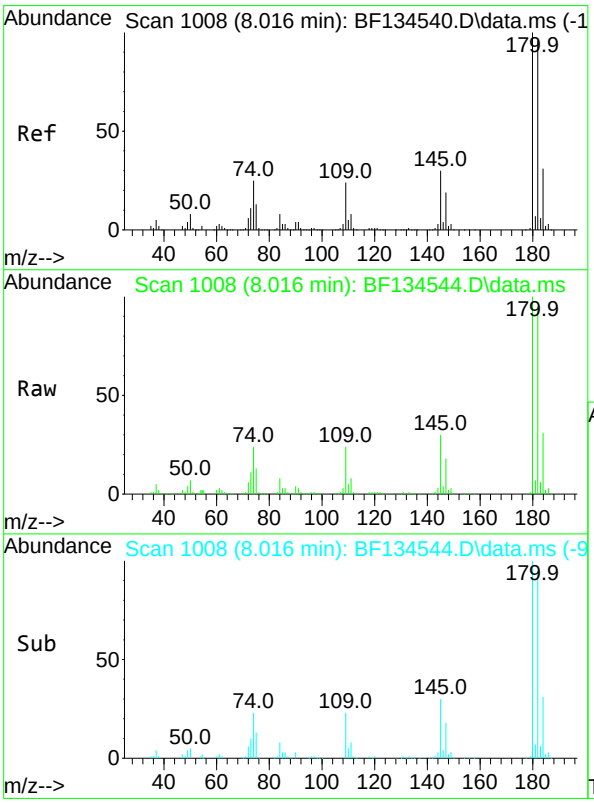
Ion	Ratio	Lower	Upper
162	100		
164	65.0	42.2	82.2
98	35.0	15.5	55.5



Instrument :
BNA_F
ClientSampleId :
ICVBF080123

Manual Integrations
APPROVED

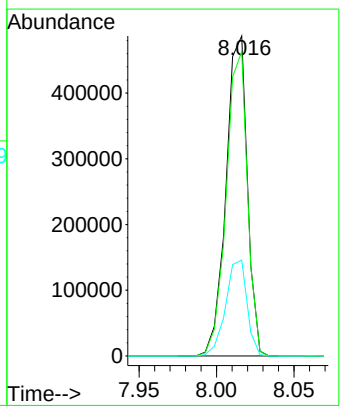
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

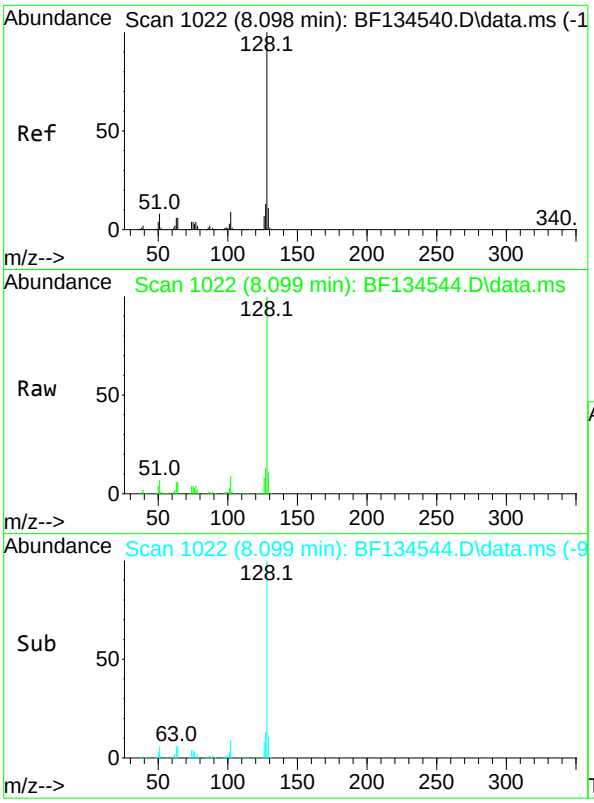


#30
1,2,4-Trichlorobenzene
Concen: 38.712 ng
RT: 8.016 min Scan# 1008
Delta R.T. 0.000 min
Lab File: BF134544.D
Acq: 01 Aug 2023 12:50

Tgt Ion:180 Resp: 465197

Ion	Ratio	Lower	Upper
180	100		
182	95.1	75.0	112.6
145	29.9	25.5	38.3

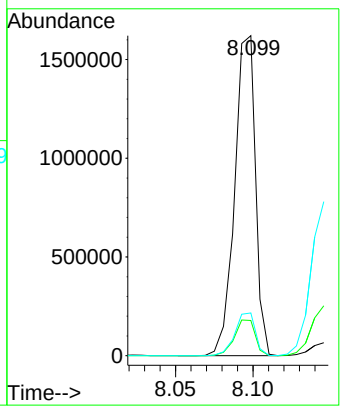




#31
Naphthalene
Concen: 37.728 ng
RT: 8.099 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134544.D
Acq: 01 Aug 2023 12:50

Tgt Ion:128 Resp: 151178

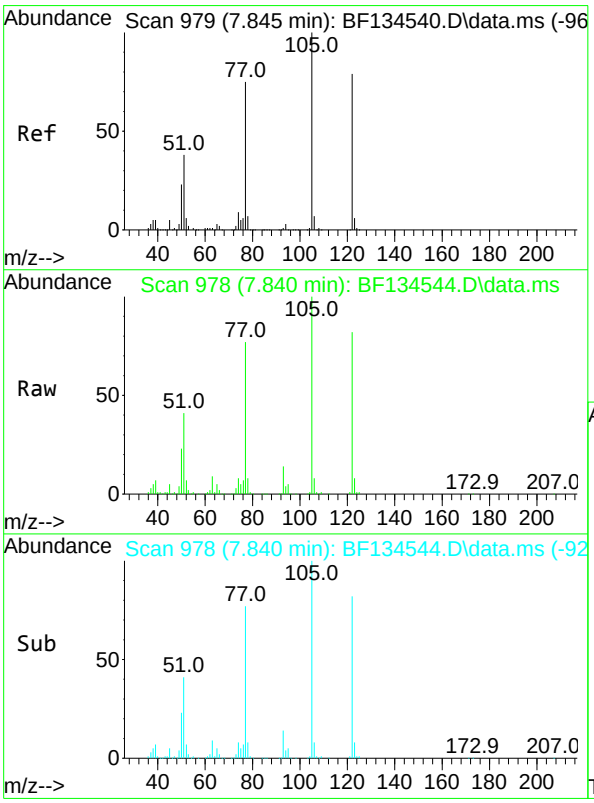
Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.4	12.6
127	13.4	10.7	16.1



Instrument :
BNA_F
ClientSampleId :
ICVBF080123

Manual Integrations
APPROVED

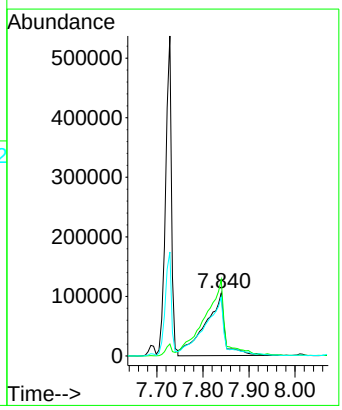
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

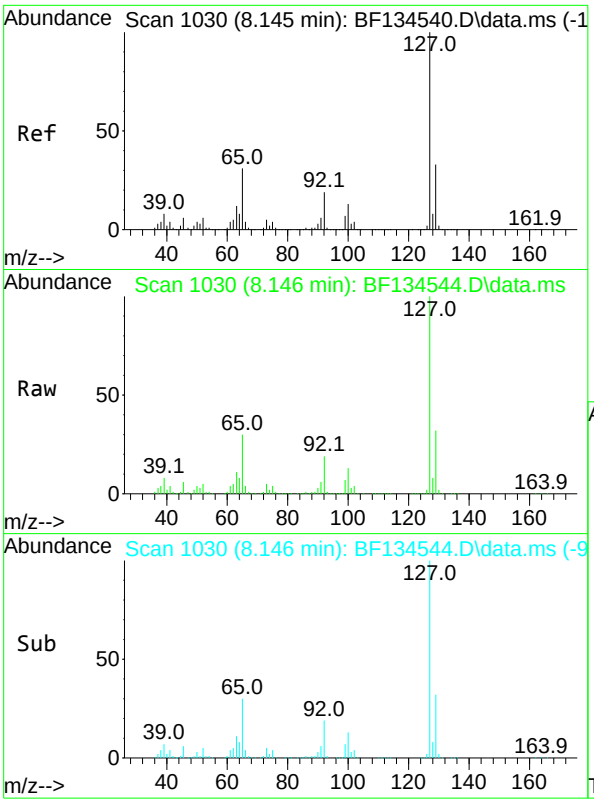


#32
Benzoic acid
Concen: 40.424 ng
RT: 7.840 min Scan# 978
Delta R.T. -0.005 min
Lab File: BF134544.D
Acq: 01 Aug 2023 12:50

Tgt Ion:122 Resp: 315379

Ion	Ratio	Lower	Upper
122	100		
105	121.9	87.5	127.5
77	93.9	71.4	111.4

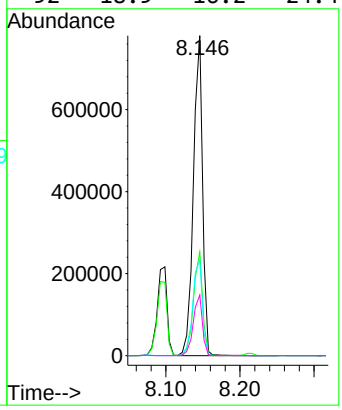




#33
4-Chloroaniline
Concen: 37.512 ng
RT: 8.146 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134544.D
Acq: 01 Aug 2023 12:50

Tgt Ion:127 Resp: 6697

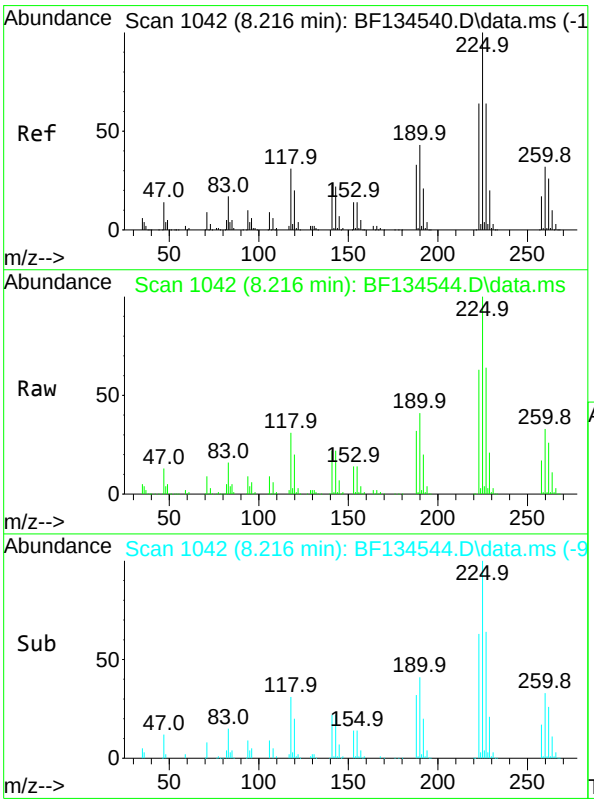
Ion	Ratio	Lower	Upper
127	100		
129	32.4	25.6	38.4
65	29.9	25.4	38.0
92	18.9	16.2	24.4



Instrument :
BNA_F
ClientSampleId :
ICVBF080123

Manual Integrations
APPROVED

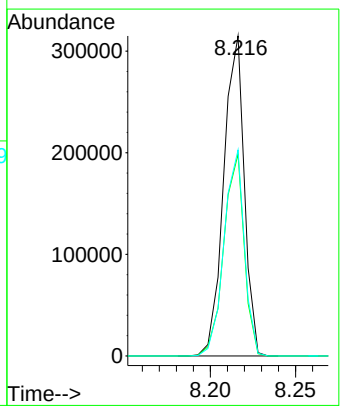
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

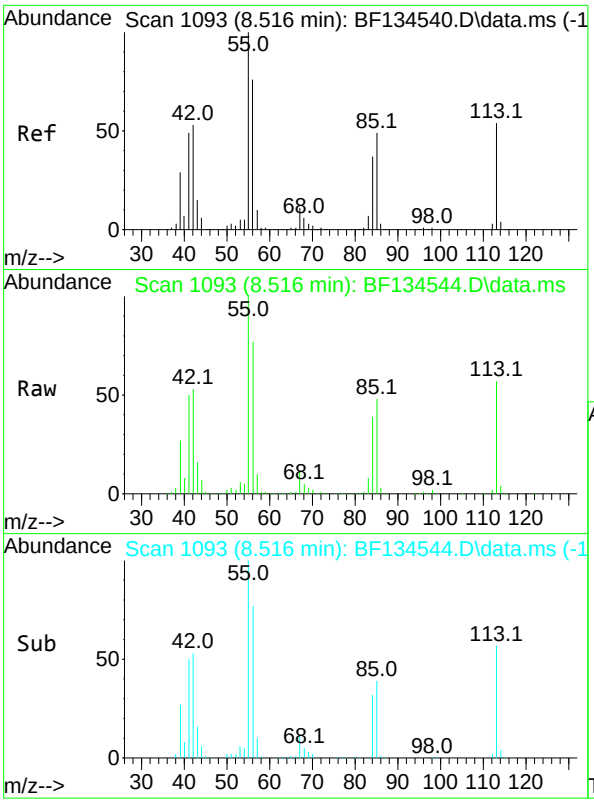


#34
Hexachlorobutadiene
Concen: 38.213 ng
RT: 8.216 min Scan# 1042
Delta R.T. 0.000 min
Lab File: BF134544.D
Acq: 01 Aug 2023 12:50

Tgt Ion:225 Resp: 264877

Ion	Ratio	Lower	Upper
225	100		
223	63.0	48.2	72.4
227	64.4	48.5	72.7

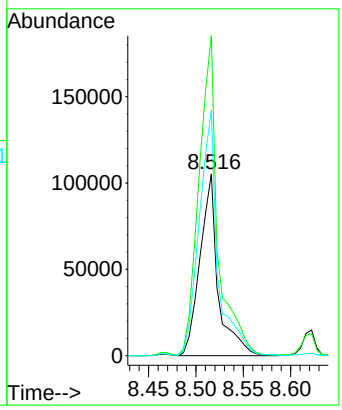




#35
Caprolactam
Concen: 38.700 ng
RT: 8.516 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134544.D
Acq: 01 Aug 2023 12:50

Tgt Ion:113 Resp: 14070

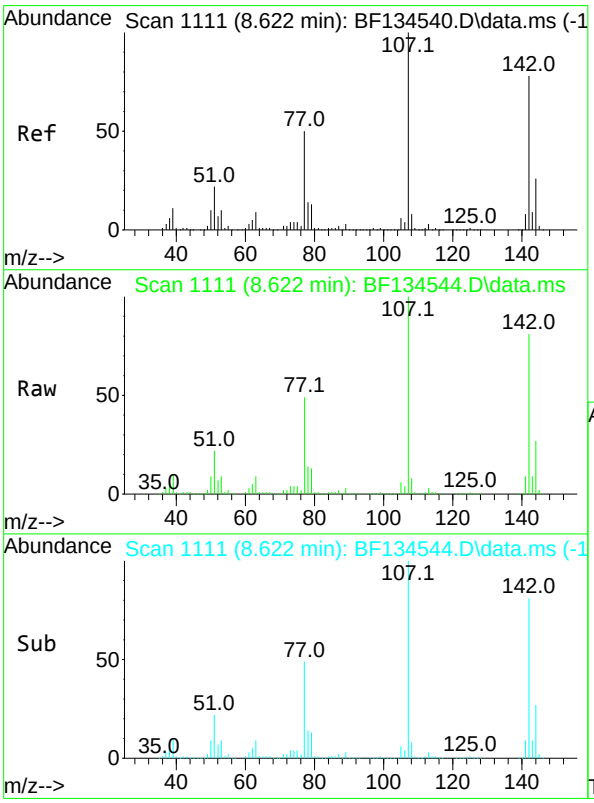
Ion	Ratio	Lower	Upper
113	100		
55	176.1	161.5	201.5
56	134.9	117.8	157.8



Instrument :
BNA_F
ClientSampleId :
ICVBF080123

Manual Integrations
APPROVED

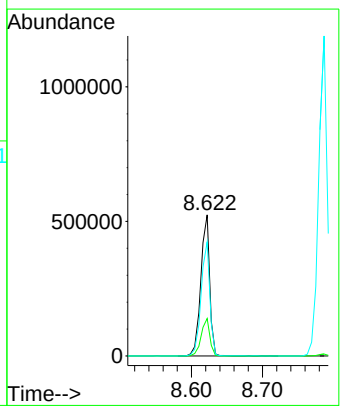
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

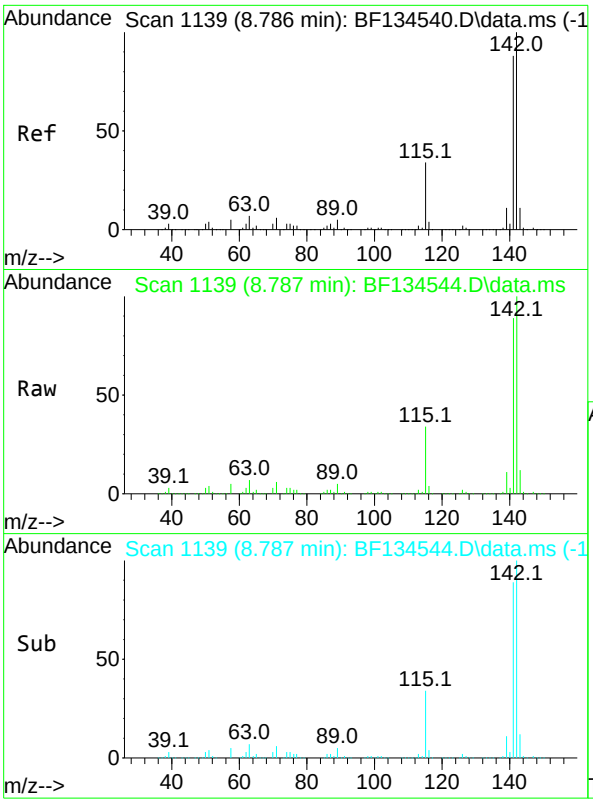


#36
4-Chloro-3-methylphenol
Concen: 38.337 ng
RT: 8.622 min Scan# 1111
Delta R.T. 0.000 min
Lab File: BF134544.D
Acq: 01 Aug 2023 12:50

Tgt Ion:107 Resp: 457530

Ion	Ratio	Lower	Upper
107	100		
144	26.5	19.6	29.4
142	80.9	57.7	86.5

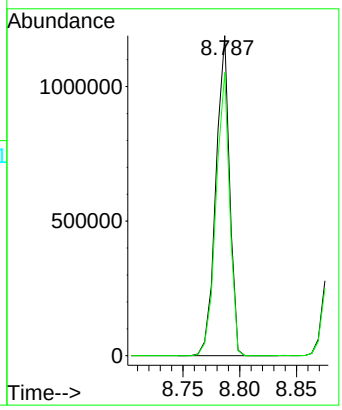




#37
2-Methylnaphthalene
Concen: 37.519 ng
RT: 8.787 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134544.D
Acq: 01 Aug 2023 12:50

Tgt Ion:142 Resp: 99652

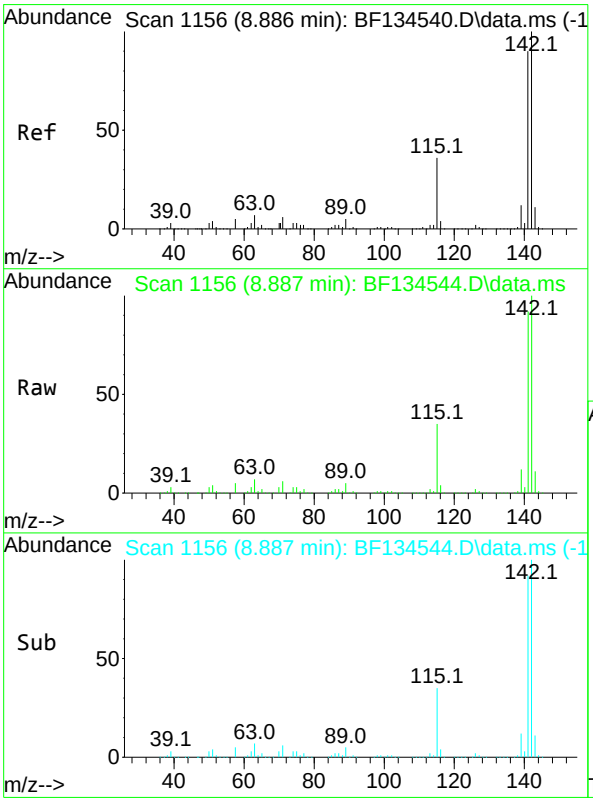
Ion	Ratio	Lower	Upper
142	100		
141	88.5	70.8	106.2



Instrument :
BNA_F
ClientSampleId :
ICVBF080123

Manual Integrations
APPROVED

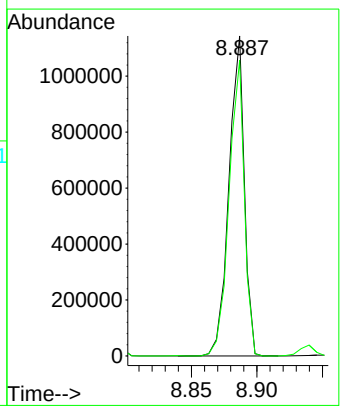
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

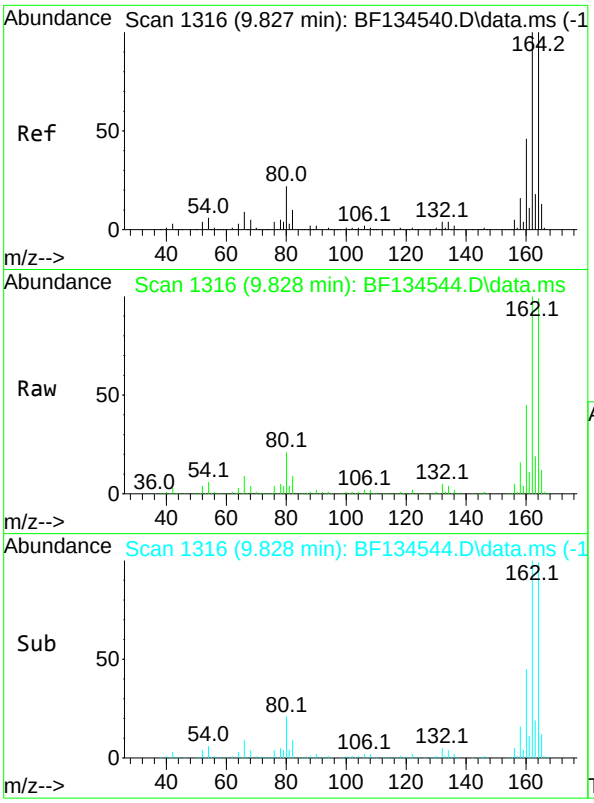


#38
1-Methylnaphthalene
Concen: 37.754 ng
RT: 8.887 min Scan# 1156
Delta R.T. 0.000 min
Lab File: BF134544.D
Acq: 01 Aug 2023 12:50

Tgt Ion:142 Resp: 932463

Ion	Ratio	Lower	Upper
142	100		
141	92.4	71.4	107.2

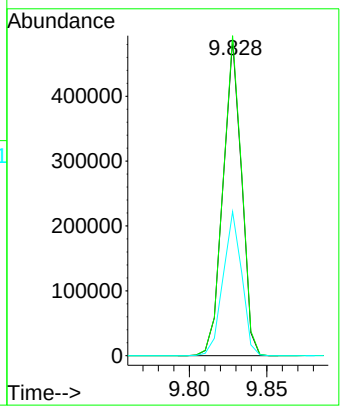




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.828 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134544.D
Acq: 01 Aug 2023 12:50

Tgt Ion:164 Resp: 40426

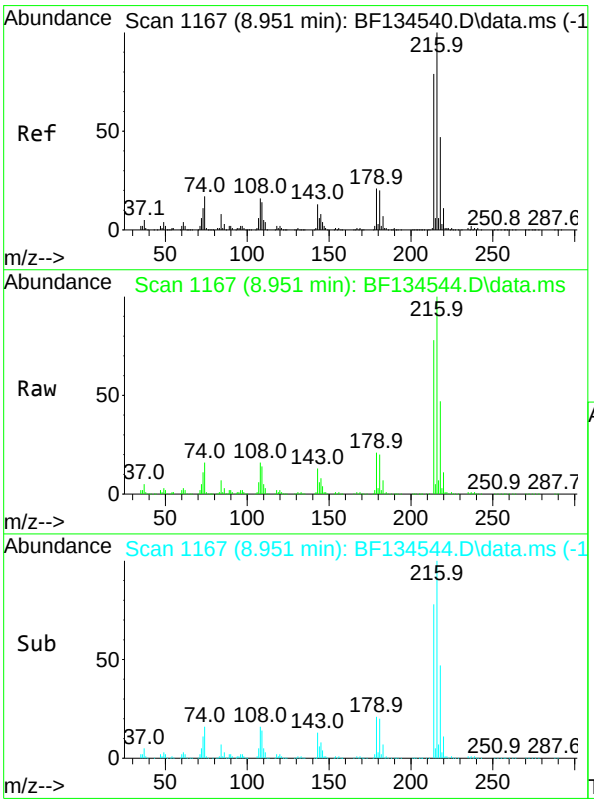
Ion	Ratio	Lower	Upper
164	100		
162	101.2	82.6	123.8
160	45.6	37.2	55.8



Instrument :
BNA_F
ClientSampleId :
ICVBF080123

Manual Integrations
APPROVED

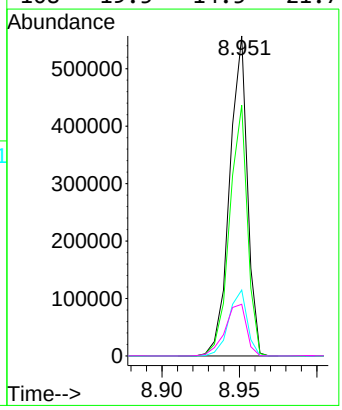
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

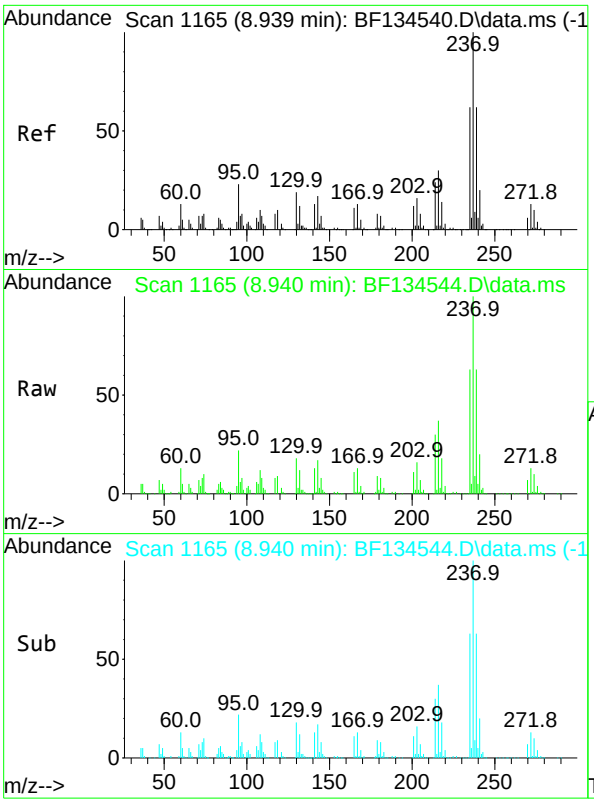


#40
1,2,4,5-Tetrachlorobenzene
Concen: 37.878 ng
RT: 8.951 min Scan# 1167
Delta R.T. 0.000 min
Lab File: BF134544.D
Acq: 01 Aug 2023 12:50

Tgt Ion:216 Resp: 445276

Ion	Ratio	Lower	Upper
216	100		
214	78.3	62.3	93.5
179	21.3	17.4	26.0
108	19.5	14.5	21.7

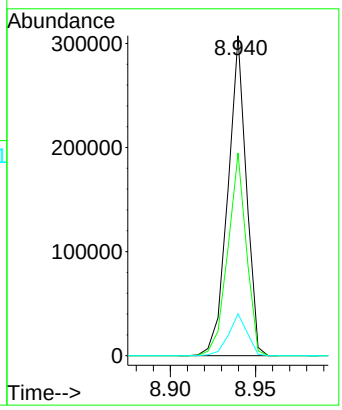




#41
Hexachlorocyclopentadiene
Concen: 40.567 ng
RT: 8.940 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF134544.D
Acq: 01 Aug 2023 12:50

Tgt Ion:237 Resp: 23190

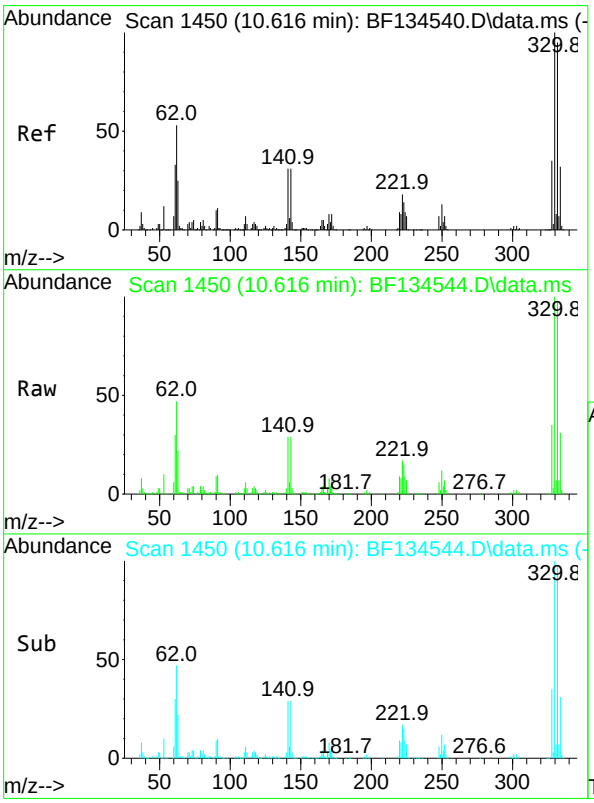
Ion	Ratio	Lower	Upper
237	100		
235	63.3	37.0	77.0
272	13.1	0.0	32.7



Instrument :
BNA_F
ClientSampleId :
ICVBF080123

Manual Integrations
APPROVED

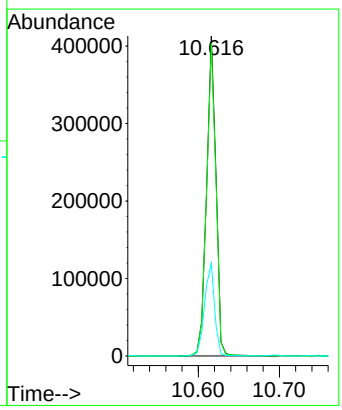
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

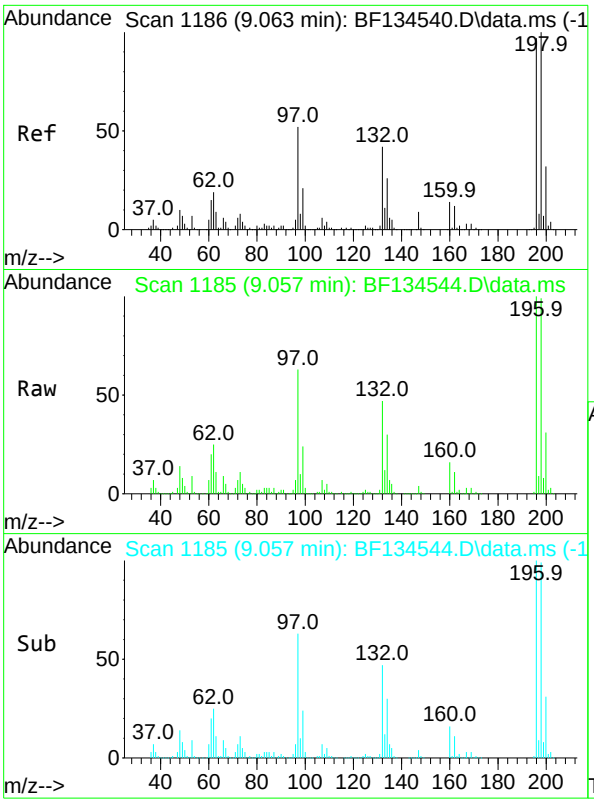


#42
2,4,6-Tribromophenol
Concen: 79.927 ng
RT: 10.616 min Scan# 1450
Delta R.T. 0.000 min
Lab File: BF134544.D
Acq: 01 Aug 2023 12:50

Tgt Ion:330 Resp: 329386

Ion	Ratio	Lower	Upper
330	100		
332	98.1	78.8	118.2
141	31.0	25.4	38.2

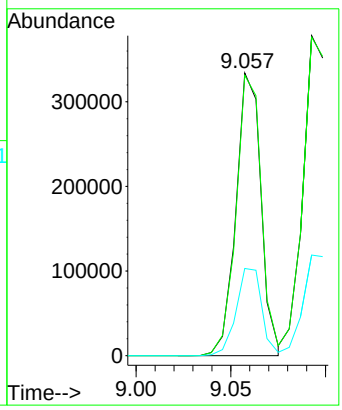




#43
2,4,6-Trichlorophenol
Concen: 39.802 ng
RT: 9.057 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF134544.D
Acq: 01 Aug 2023 12:50

Tgt Ion:196 Resp: 30621

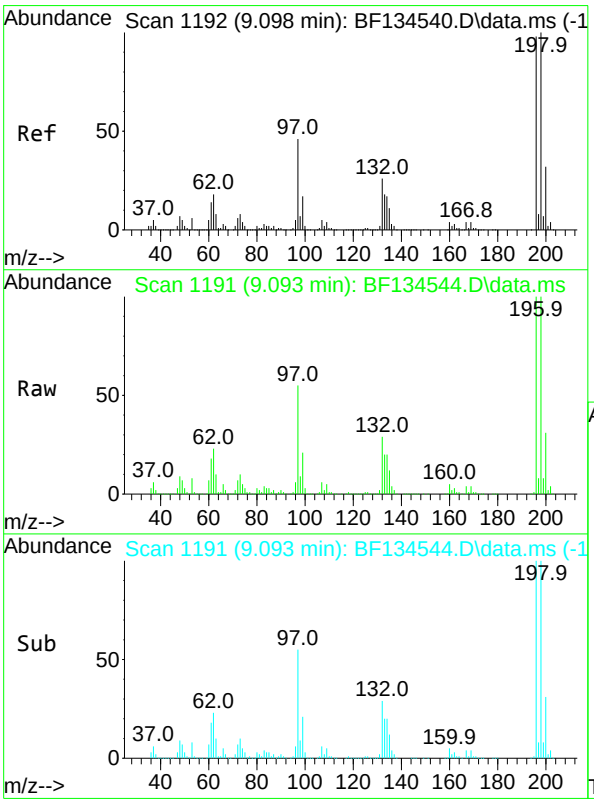
Ion	Ratio	Lower	Upper
196	100		
198	99.1	77.4	116.2
200	30.9	25.4	38.2



Instrument :
BNA_F
ClientSampleId :
ICVBF080123

Manual Integrations
APPROVED

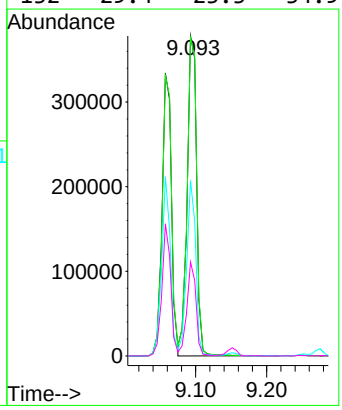
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

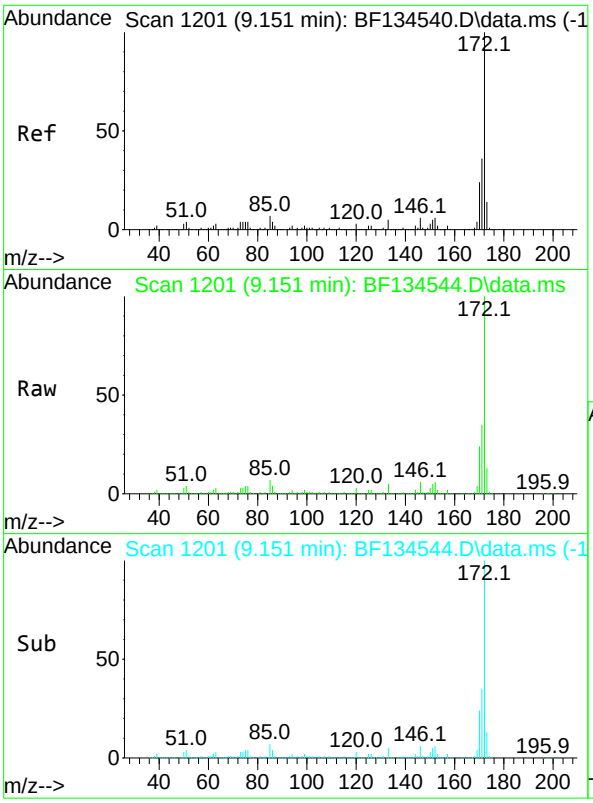


#44
2,4,5-Trichlorophenol
Concen: 39.669 ng
RT: 9.093 min Scan# 1191
Delta R.T. -0.005 min
Lab File: BF134544.D
Acq: 01 Aug 2023 12:50

Tgt Ion:196 Resp: 348813

Ion	Ratio	Lower	Upper
196	100		
198	99.5	73.0	109.4
97	54.8	40.8	61.2
132	29.4	23.3	34.9

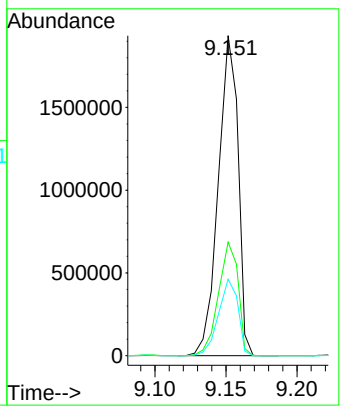




#45
2-Fluorobiphenyl
Concen: 76.977 ng
RT: 9.151 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134544.D
Acq: 01 Aug 2023 12:50

Tgt Ion:172 Resp: 187158

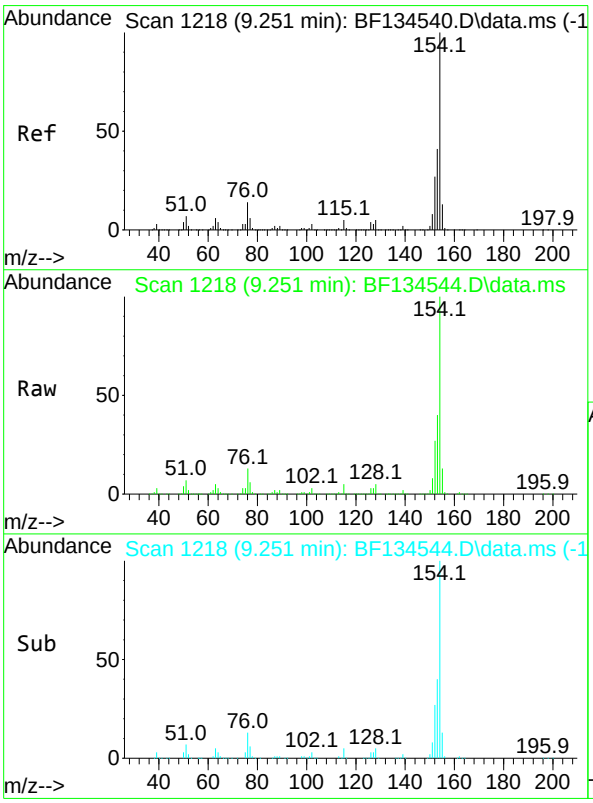
Ion	Ratio	Lower	Upper
172	100		
171	35.5	28.8	43.2
170	23.9	18.7	28.1



Instrument :
BNA_F
ClientSampleId :
ICVBF080123

Manual Integrations
APPROVED

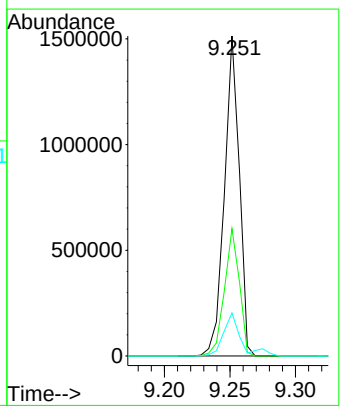
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

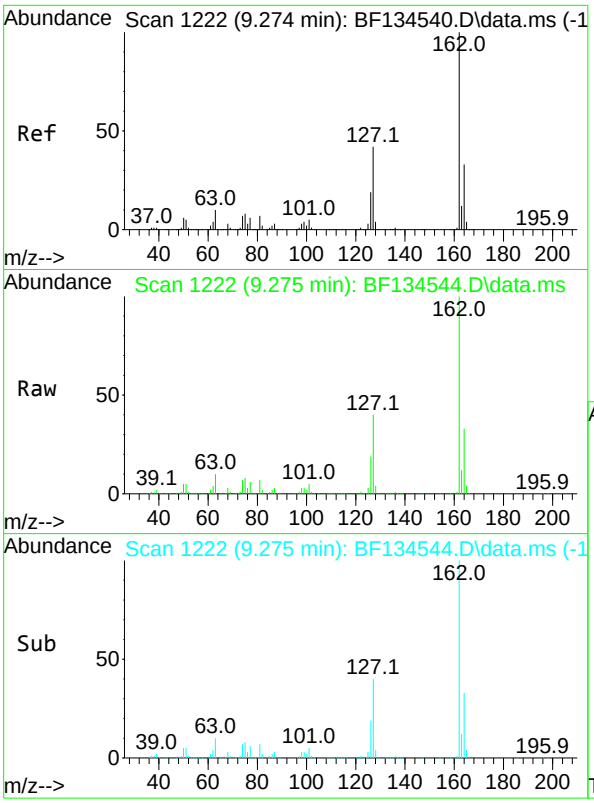


#46
1,1'-Biphenyl
Concen: 37.830 ng
RT: 9.251 min Scan# 1218
Delta R.T. 0.000 min
Lab File: BF134544.D
Acq: 01 Aug 2023 12:50

Tgt Ion:154 Resp: 1189246

Ion	Ratio	Lower	Upper
154	100		
153	39.8	20.8	60.8
76	13.5	0.0	30.2

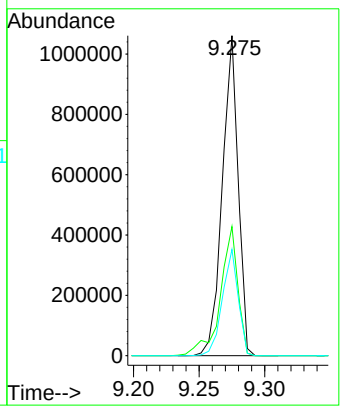




#47
2-Chloronaphthalene
Concen: 37.782 ng
RT: 9.275 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134544.D
Acq: 01 Aug 2023 12:50

Tgt Ion:162 Resp: 88995

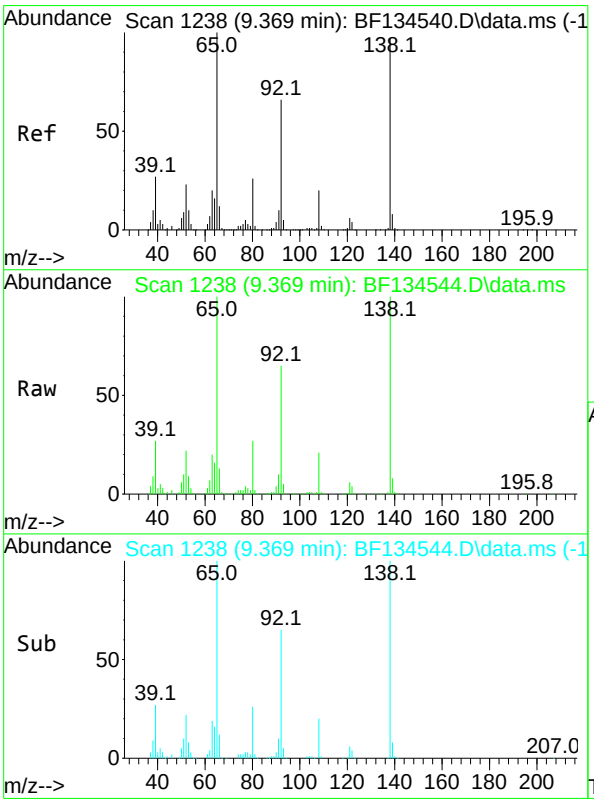
Ion	Ratio	Lower	Upper
162	100		
127	40.3	34.0	51.0
164	33.2	25.7	38.5



Instrument :
BNA_F
ClientSampleId :
ICVBF080123

Manual Integrations
APPROVED

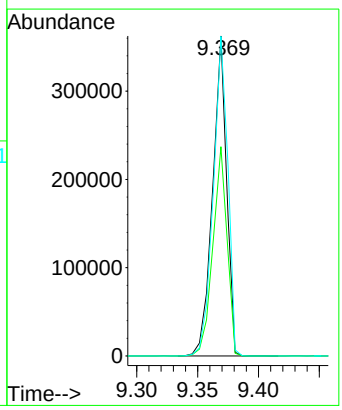
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

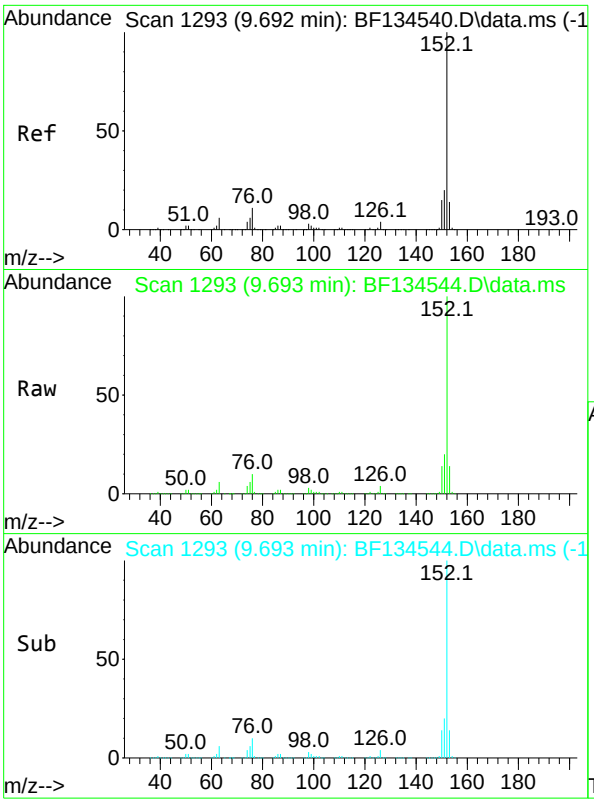


#48
2-Nitroaniline
Concen: 40.053 ng
RT: 9.369 min Scan# 1238
Delta R.T. 0.000 min
Lab File: BF134544.D
Acq: 01 Aug 2023 12:50

Tgt Ion: 65 Resp: 290016

Ion	Ratio	Lower	Upper
65	100		
92	65.4	50.7	76.1
138	99.9	78.2	117.4

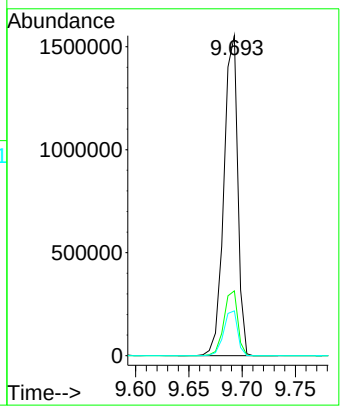




#49
Acenaphthylene
Concen: 37.708 ng
RT: 9.693 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134544.D
Acq: 01 Aug 2023 12:50

Tgt Ion:152 Resp: 139619

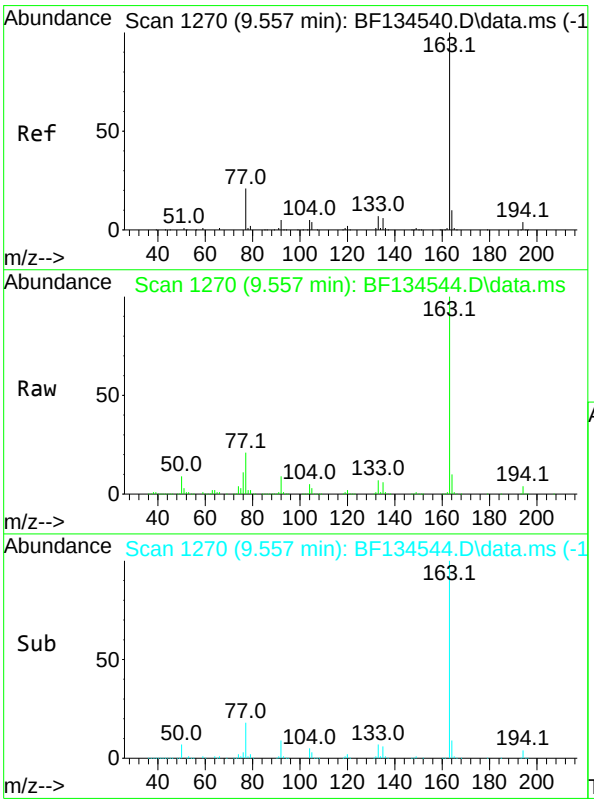
Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.4	24.6
153	14.0	10.9	16.3



Instrument :
BNA_F
ClientSampleId :
ICVBF080123

Manual Integrations
APPROVED

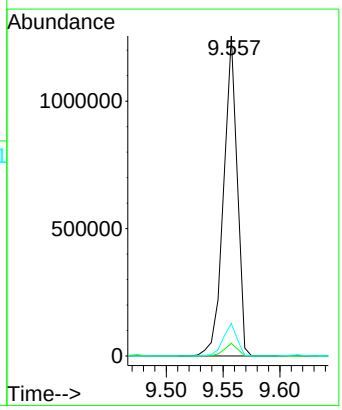
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

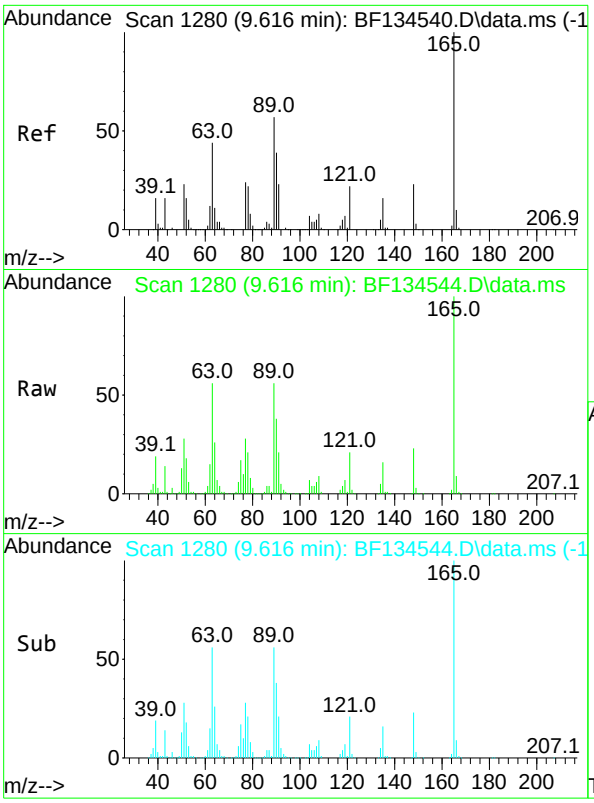


#50
Dimethylphthalate
Concen: 38.079 ng
RT: 9.557 min Scan# 1270
Delta R.T. 0.000 min
Lab File: BF134544.D
Acq: 01 Aug 2023 12:50

Tgt Ion:163 Resp: 1049202

Ion	Ratio	Lower	Upper
163	100		
194	3.9	3.3	4.9
164	10.2	7.5	11.3

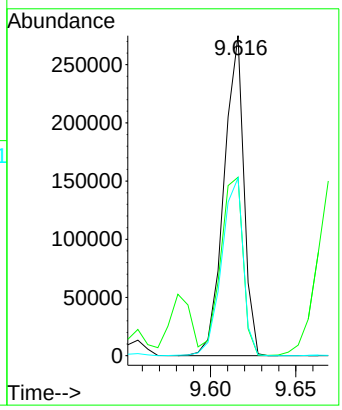




#51
2,6-Dinitrotoluene
Concen: 40.100 ng
RT: 9.616 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134544.D
Acq: 01 Aug 2023 12:50

Tgt Ion:165 Resp: 22393

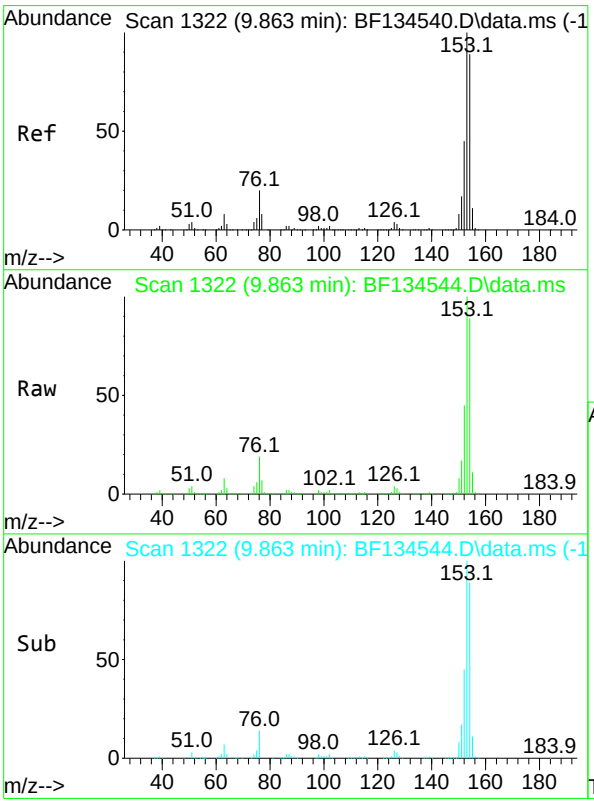
Ion	Ratio	Lower	Upper
165	100		
63	55.7	57.8	86.6
89	55.6	51.8	77.8



Instrument :
BNA_F
ClientSampleId :
ICVBF080123

Manual Integrations
APPROVED

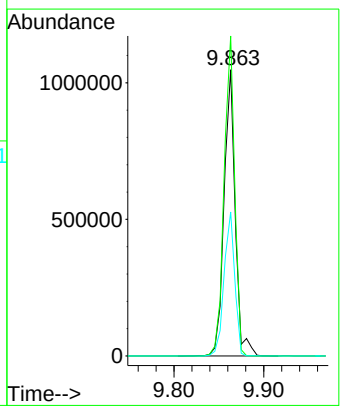
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

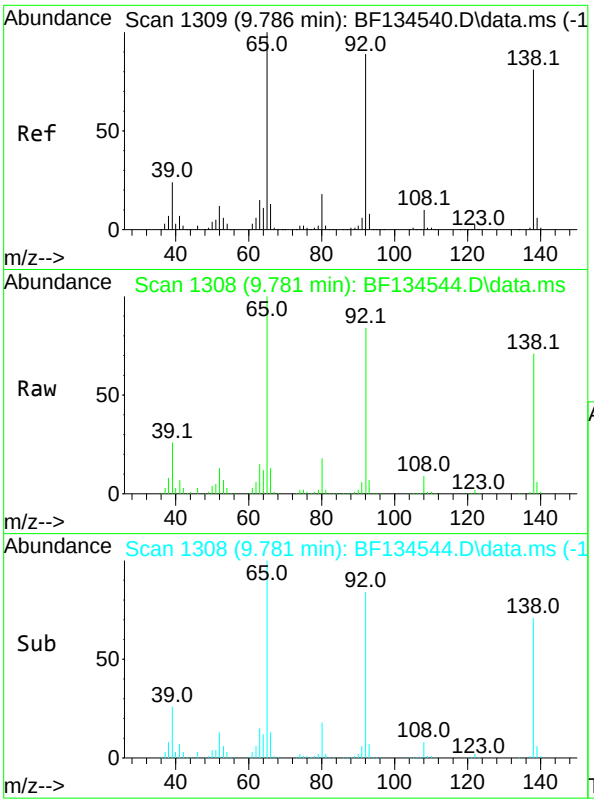


#52
Acenaphthene
Concen: 37.648 ng
RT: 9.863 min Scan# 1322
Delta R.T. 0.000 min
Lab File: BF134544.D
Acq: 01 Aug 2023 12:50

Tgt Ion:154 Resp: 903356

Ion	Ratio	Lower	Upper
154	100		
153	111.8	90.0	135.0
152	50.3	42.4	63.6

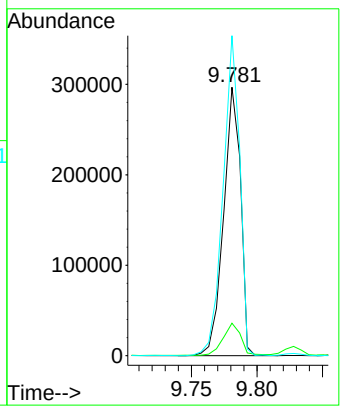




#53
3-Nitroaniline
Concen: 43.450 ng
RT: 9.781 min Scan# 1
Delta R.T. -0.005 min
Lab File: BF134544.D
Acq: 01 Aug 2023 12:50

Tgt Ion:138 Resp: 26684

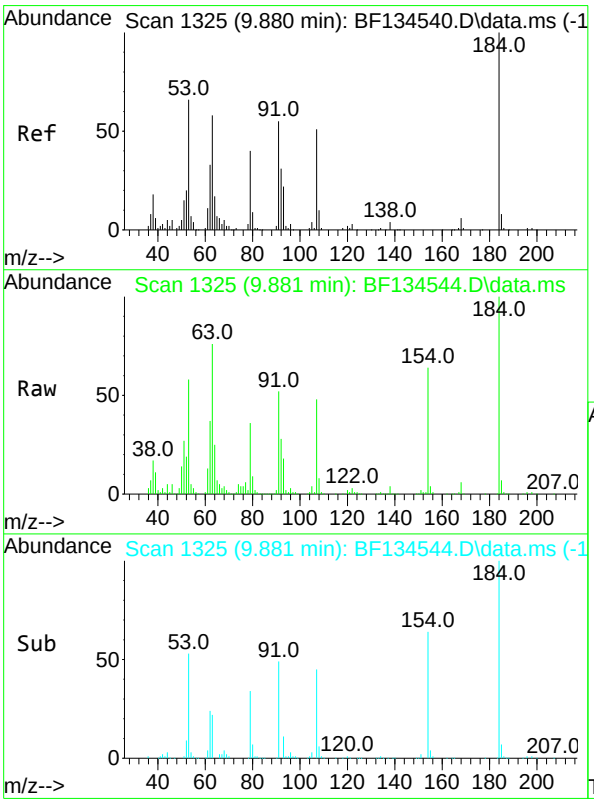
Ion	Ratio	Lower	Upper
138	100		
108	12.1	9.3	13.9
92	119.2	86.6	129.8



Instrument :
BNA_F
ClientSampleId :
ICVBF080123

Manual Integrations
APPROVED

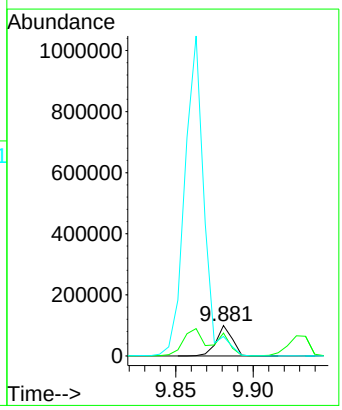
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

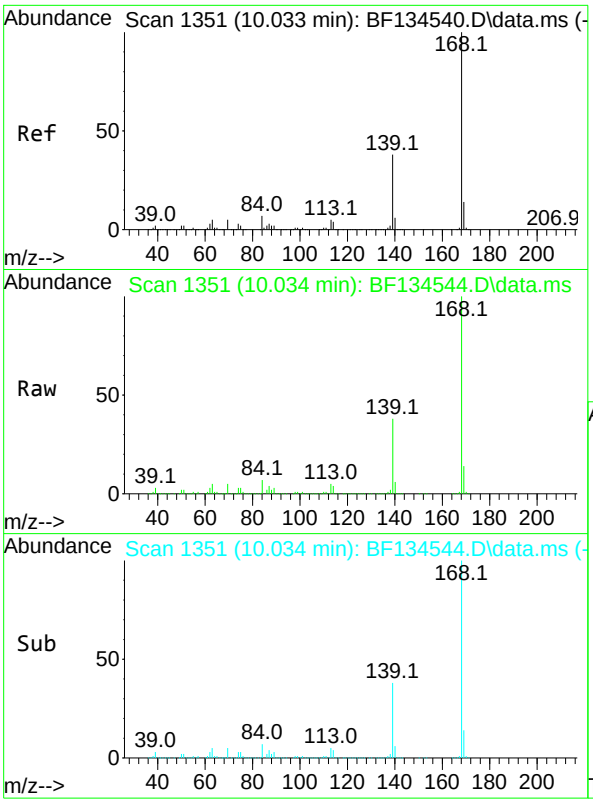


#54
2,4-Dinitrophenol
Concen: 41.497 ng
RT: 9.881 min Scan# 1325
Delta R.T. 0.001 min
Lab File: BF134544.D
Acq: 01 Aug 2023 12:50

Tgt Ion:184 Resp: 70832

Ion	Ratio	Lower	Upper
184	100		
63	75.6	57.1	85.7
154	64.4	59.1	88.7

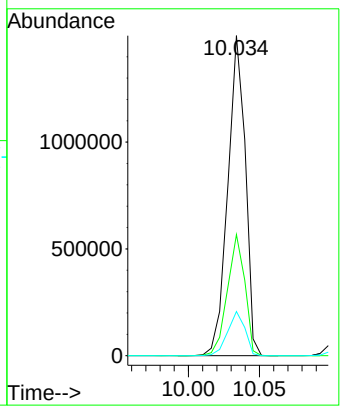




#55
Dibenzofuran
Concen: 37.710 ng
RT: 10.034 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134544.D
Acq: 01 Aug 2023 12:50

Tgt Ion:168 Resp: 128811

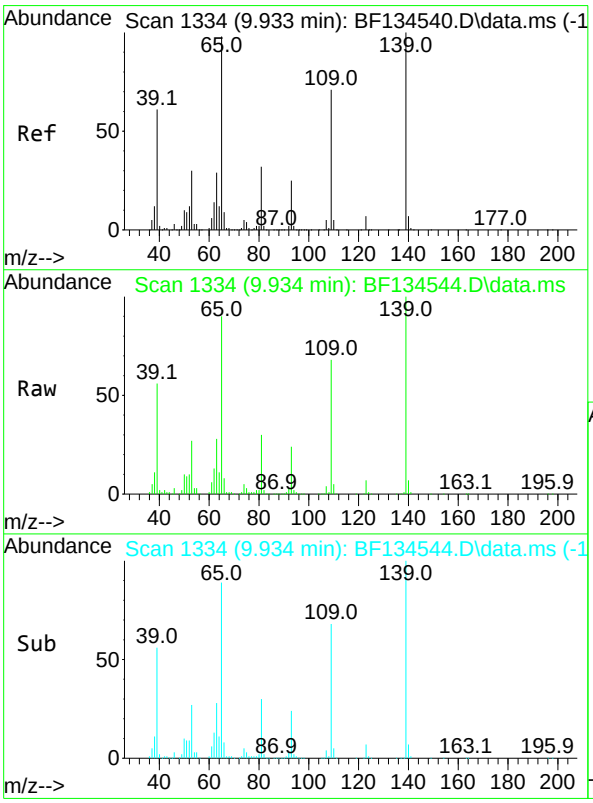
Ion	Ratio	Lower	Upper
168	100		
139	37.9	33.4	50.2
169	13.8	10.6	15.8



Instrument :
BNA_F
ClientSampleId :
ICVBF080123

Manual Integrations APPROVED

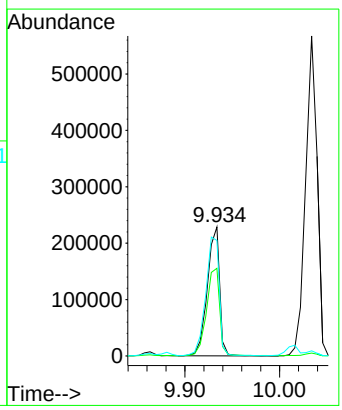
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

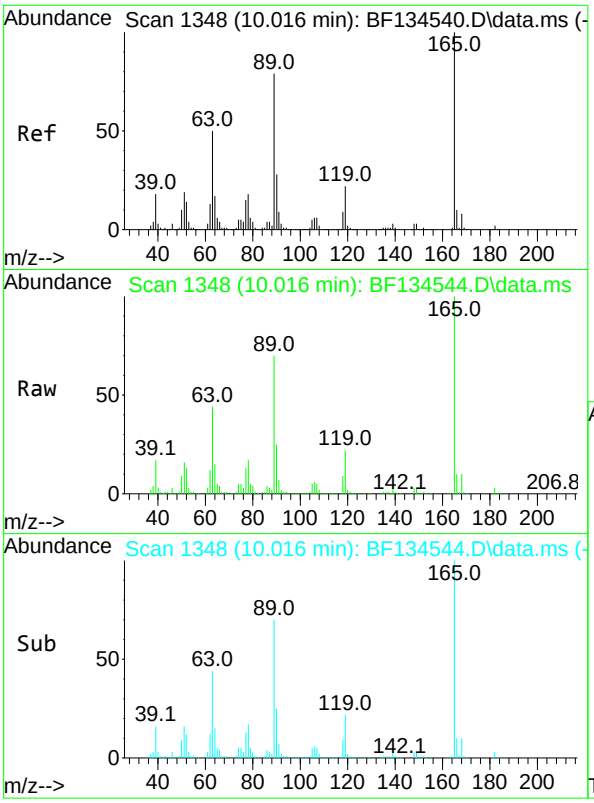


#56
4-Nitrophenol
Concen: 40.955 ng
RT: 9.934 min Scan# 1334
Delta R.T. 0.001 min
Lab File: BF134544.D
Acq: 01 Aug 2023 12:50

Tgt Ion:139 Resp: 205712

Ion	Ratio	Lower	Upper
139	100		
109	68.0	76.9	116.9#
65	89.6	98.5	138.5#

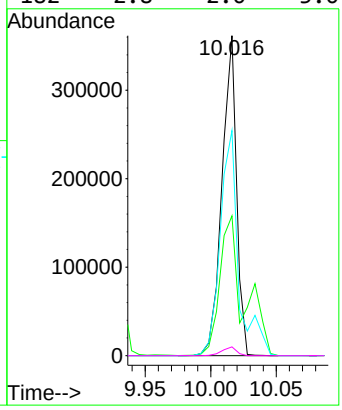




#57
2,4-Dinitrotoluene
Concen: 41.313 ng
RT: 10.016 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134544.D
Acq: 01 Aug 2023 12:50

Tgt Ion:165 Resp: 27882

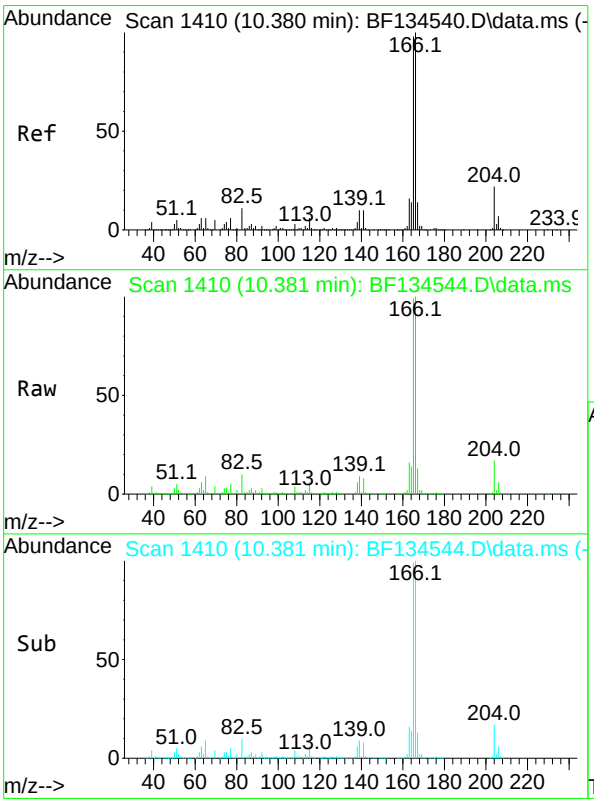
Ion	Ratio	Lower	Upper
165	100		
63	43.7	48.9	73.3#
89	70.4	61.7	92.5
182	2.8	2.0	3.0



Instrument :
BNA_F
ClientSampleId :
ICVBF080123

Manual Integrations
APPROVED

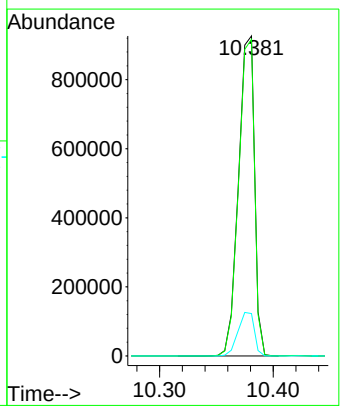
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

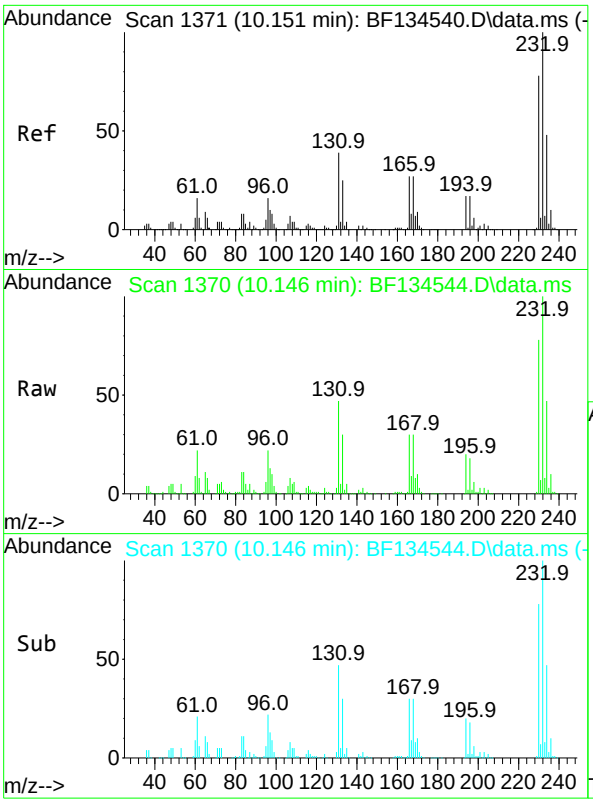


#58
Fluorene
Concen: 36.552 ng
RT: 10.381 min Scan# 1410
Delta R.T. 0.001 min
Lab File: BF134544.D
Acq: 01 Aug 2023 12:50

Tgt Ion:166 Resp: 909435

Ion	Ratio	Lower	Upper
166	100		
165	99.0	74.5	111.7
167	13.2	10.6	16.0

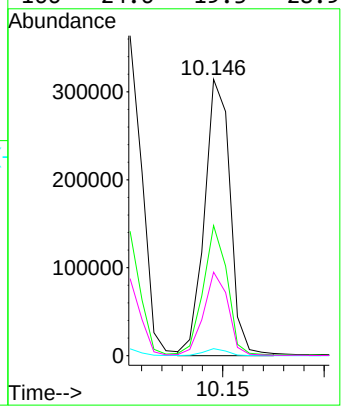




#59
2,3,4,6-Tetrachlorophenol
Concen: 39.840 ng m
RT: 10.146 min Scan# 1
Delta R.T. -0.005 min
Lab File: BF134544.D
Acq: 01 Aug 2023 12:50

Tgt Ion:232 Resp: 27715

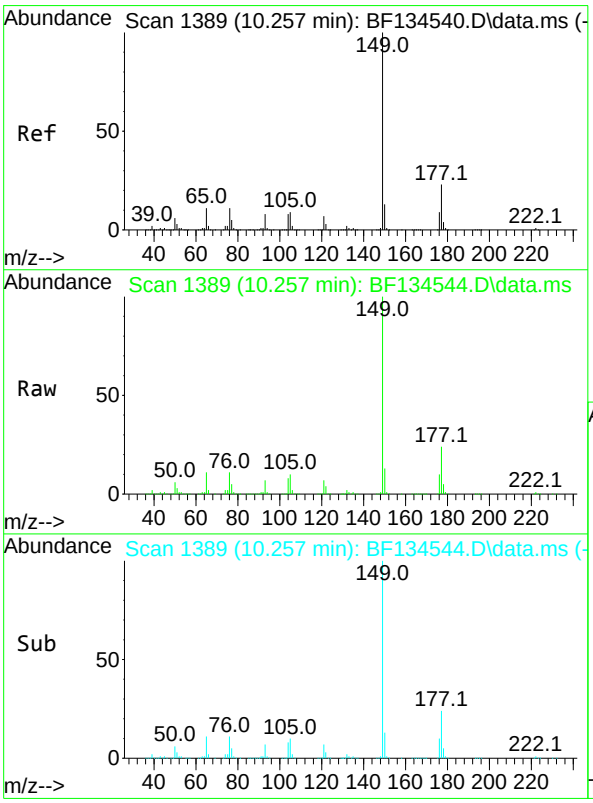
Ion	Ratio	Lower	Upper
232	100		
131	40.5	33.4	50.0
130	2.4	1.8	2.6
166	24.6	19.3	28.9



Instrument :
BNA_F
ClientSampleId :
ICVBF080123

Manual Integrations
APPROVED

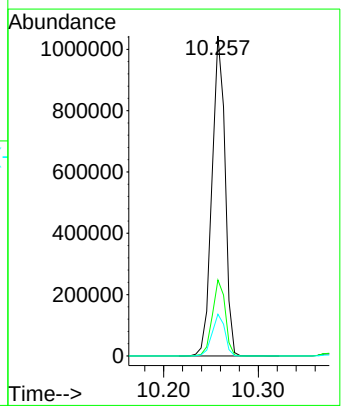
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

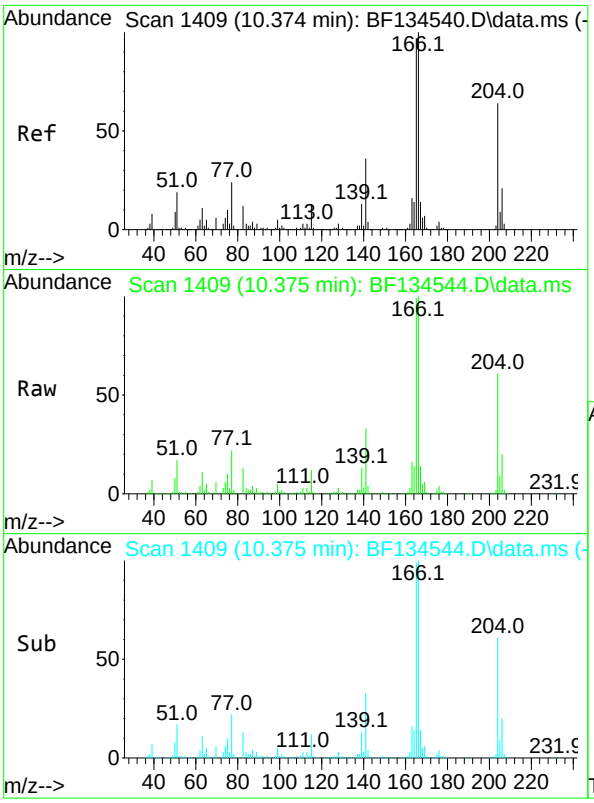


#60
Diethylphthalate
Concen: 38.232 ng
RT: 10.257 min Scan# 1389
Delta R.T. 0.000 min
Lab File: BF134544.D
Acq: 01 Aug 2023 12:50

Tgt Ion:149 Resp: 998487

Ion	Ratio	Lower	Upper
149	100		
177	23.8	17.0	25.4
150	13.1	9.9	14.9

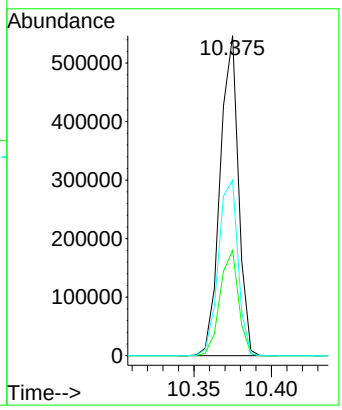




#61
4-Chlorophenyl-phenylether
Concen: 36.774 ng
RT: 10.375 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF134544.D
Acq: 01 Aug 2023 12:50

Tgt Ion:204 Resp: 44972

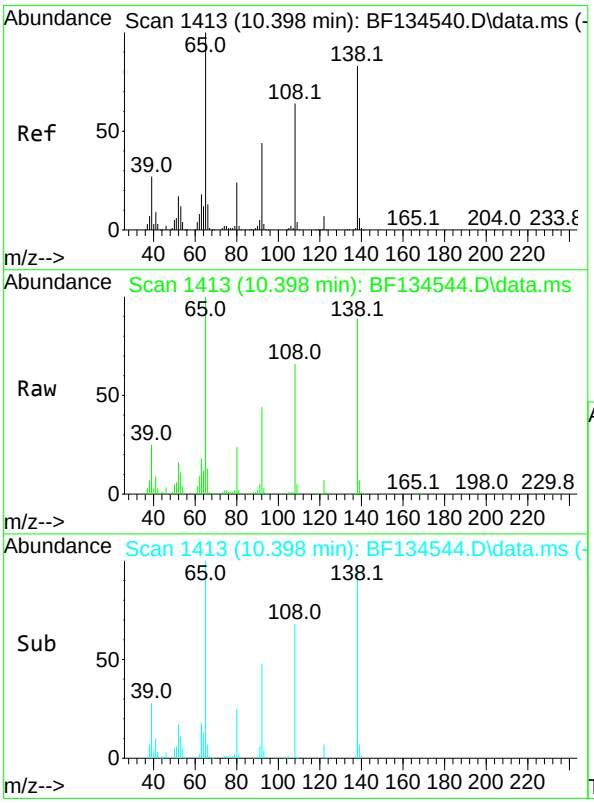
Ion	Ratio	Lower	Upper
204	100		
206	32.9	26.0	39.0
141	54.9	52.2	78.4



Instrument :
BNA_F
ClientSampleId :
ICVBF080123

Manual Integrations
APPROVED

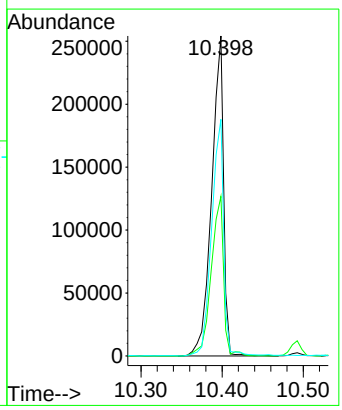
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

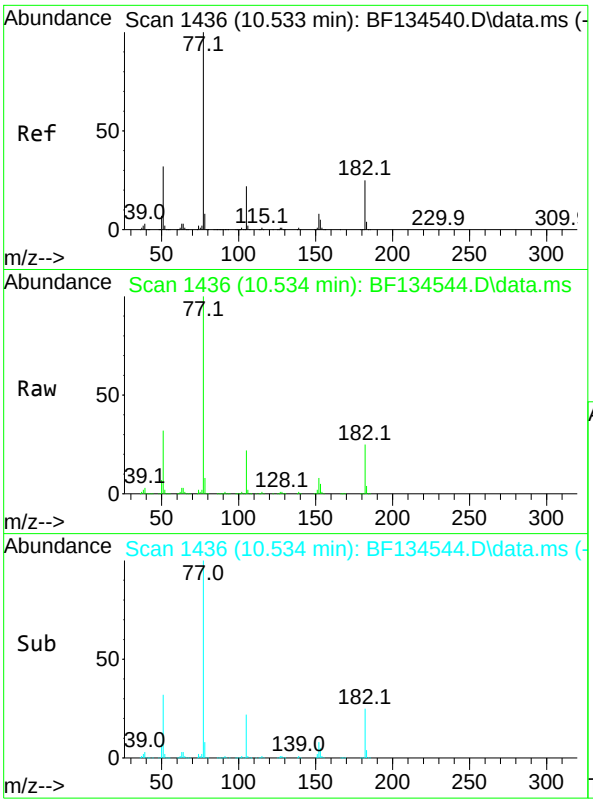


#62
4-Nitroaniline
Concen: 42.842 ng
RT: 10.398 min Scan# 1413
Delta R.T. 0.000 min
Lab File: BF134544.D
Acq: 01 Aug 2023 12:50

Tgt Ion:138 Resp: 257885

Ion	Ratio	Lower	Upper
138	100		
92	49.9	27.0	67.0
108	73.9	70.4	110.4

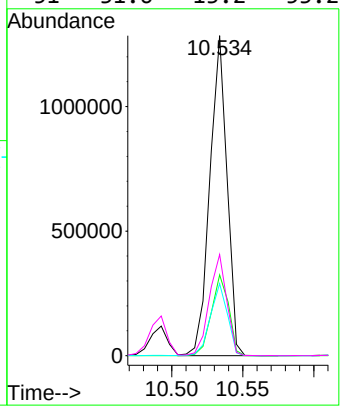




#63
Azobenzene
Concen: 38.370 ng
RT: 10.534 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF134544.D
Acq: 01 Aug 2023 12:50

Tgt Ion: 77 Resp: 107667

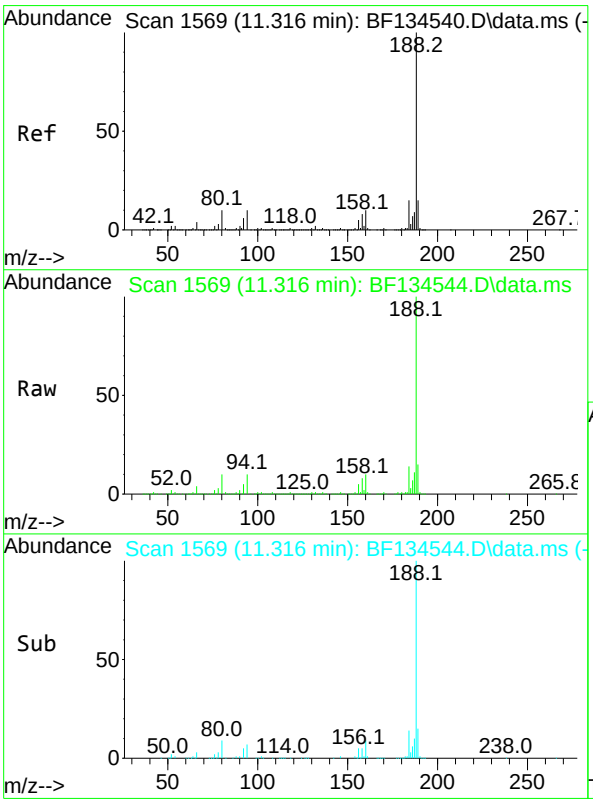
Ion	Ratio	Lower	Upper
77	100		
182	25.2	7.5	47.5
105	22.5	1.9	41.9
51	31.6	13.2	53.2



Instrument :
BNA_F
ClientSampleId :
ICVBF080123

Manual Integrations
APPROVED

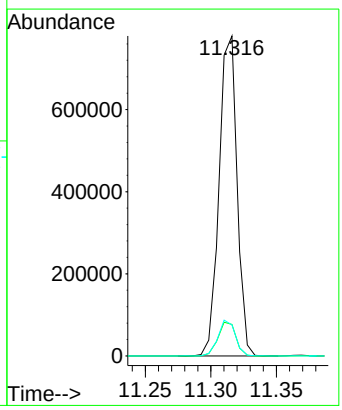
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

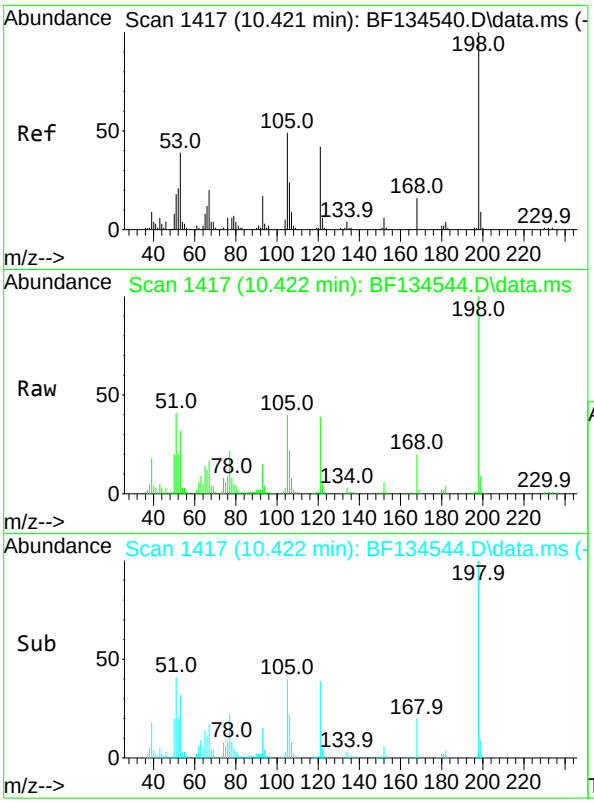


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.316 min Scan# 1569
Delta R.T. 0.000 min
Lab File: BF134544.D
Acq: 01 Aug 2023 12:50

Tgt Ion:188 Resp: 741217

Ion	Ratio	Lower	Upper
188	100		
94	9.9	5.1	7.7#
80	9.7	6.6	9.8





#65
4,6-Dinitro-2-methylphenol
Concen: 39.539 ng
RT: 10.422 min Scan# 14
Delta R.T. 0.001 min
Lab File: BF134544.D
Acq: 01 Aug 2023 12:50

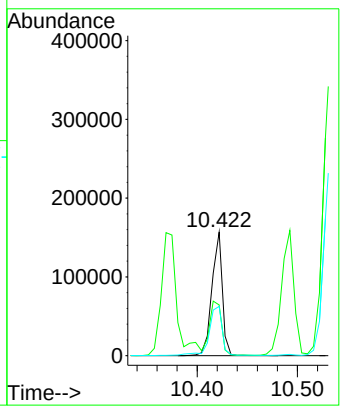
Tgt Ion:198 Resp: 11284

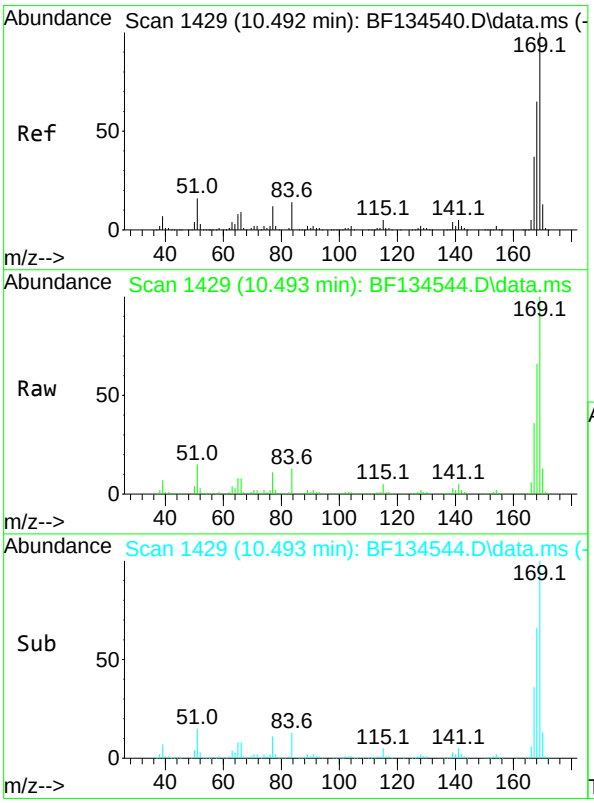
Ion	Ratio	Lower	Upper
198	100		
51	41.1	38.6	78.6
105	39.9	27.9	67.9

Instrument :
BNA_F
ClientSampleId :
ICVBF080123

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

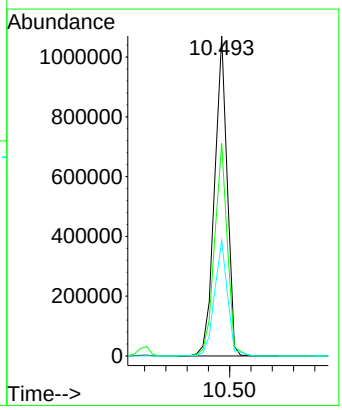


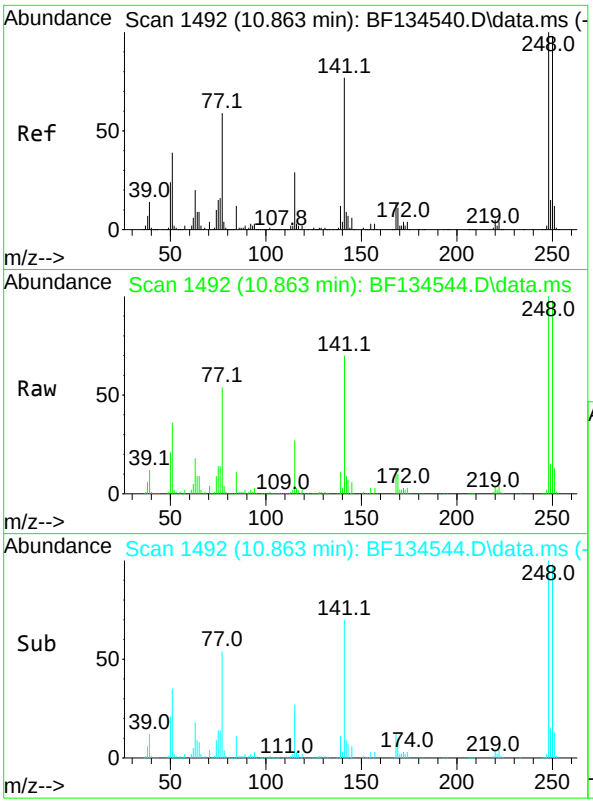


#66
n-Nitrosodiphenylamine
Concen: 37.346 ng
RT: 10.493 min Scan# 1429
Delta R.T. 0.000 min
Lab File: BF134544.D
Acq: 01 Aug 2023 12:50

Tgt Ion:169 Resp: 881072

Ion	Ratio	Lower	Upper
169	100		
168	66.4	52.6	78.8
167	36.1	29.8	44.8

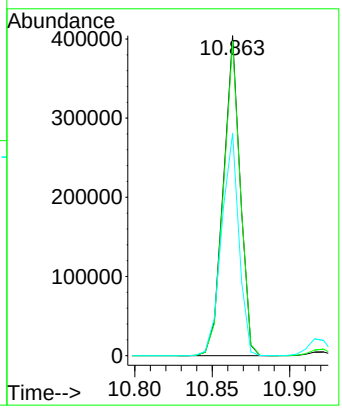




#67
4-Bromophenyl-phenylether
Concen: 37.577 ng
RT: 10.863 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF134544.D
Acq: 01 Aug 2023 12:50

Tgt Ion:248 Resp: 30490

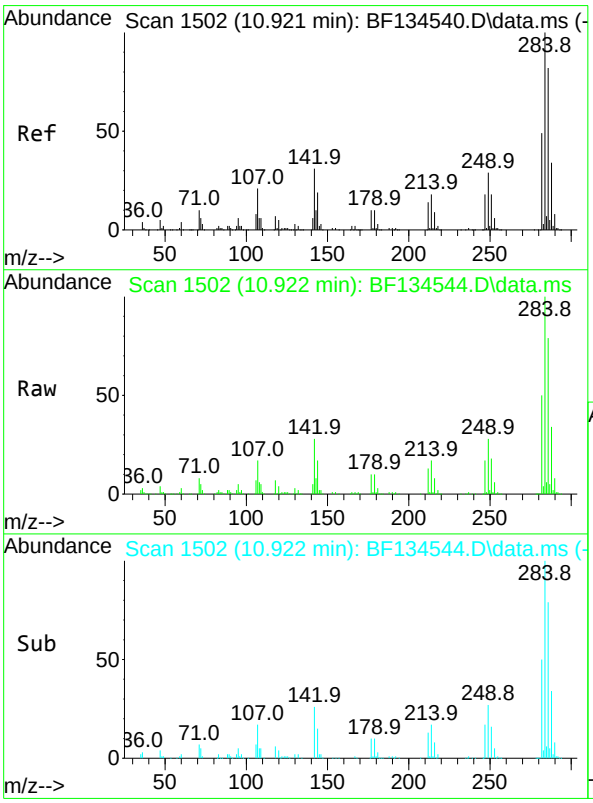
Ion	Ratio	Lower	Upper
248	100		
250	98.4	79.6	119.4
141	69.5	59.6	89.4



Instrument :
BNA_F
ClientSampleId :
ICVBF080123

Manual Integrations
APPROVED

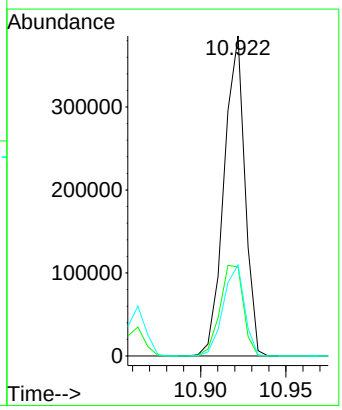
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

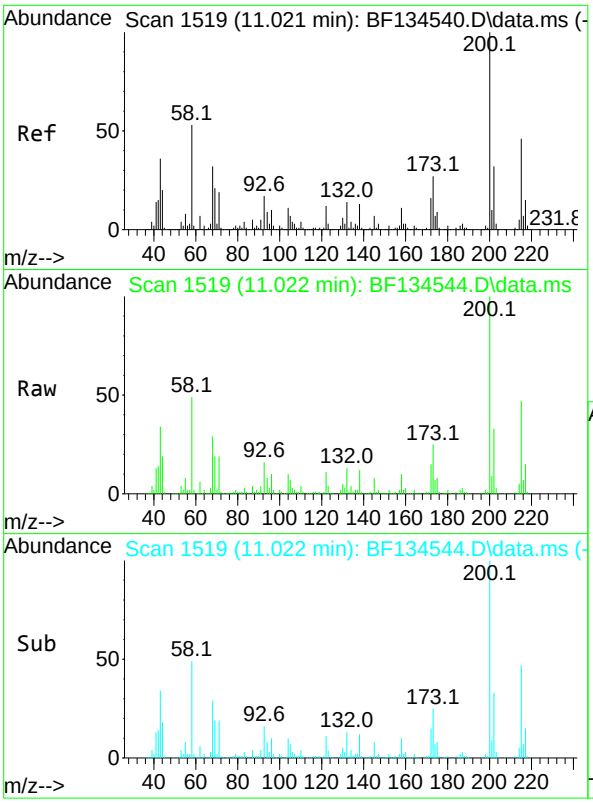


#68
Hexachlorobenzene
Concen: 38.292 ng
RT: 10.922 min Scan# 1502
Delta R.T. 0.000 min
Lab File: BF134544.D
Acq: 01 Aug 2023 12:50

Tgt Ion:284 Resp: 328096

Ion	Ratio	Lower	Upper
284	100		
142	27.9	26.5	39.7
249	28.4	23.8	35.8





#69
Atrazine
Concen: 39.911 ng
RT: 11.022 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134544.D
Acq: 01 Aug 2023 12:50

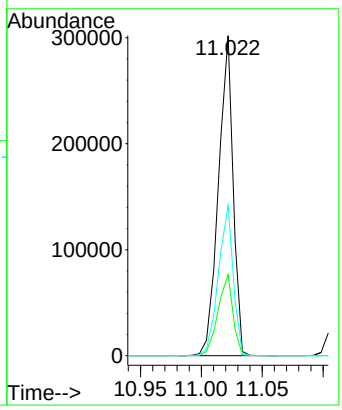
Tgt Ion:200 Resp: 25378

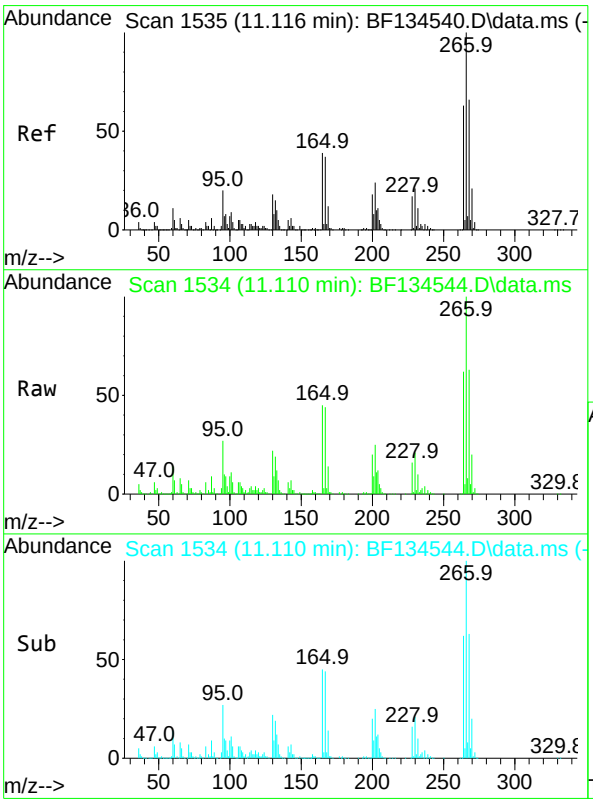
Ion	Ratio	Lower	Upper
200	100		
173	25.3	6.1	46.1
215	46.9	29.7	69.7

Instrument :
BNA_F
ClientSampleId :
ICVBF080123

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

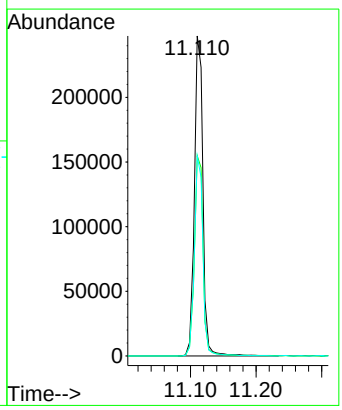


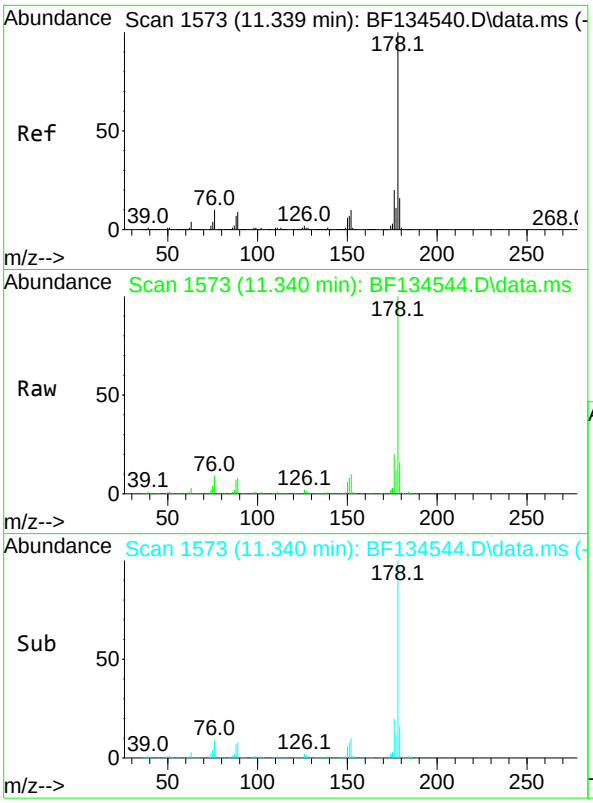


#70
Pentachlorophenol
Concen: 42.156 ng
RT: 11.110 min Scan# 1534
Delta R.T. -0.005 min
Lab File: BF134544.D
Acq: 01 Aug 2023 12:50

Tgt Ion:266 Resp: 223645

Ion	Ratio	Lower	Upper
266	100		
268	62.5	52.9	79.3
264	62.5	47.8	71.6

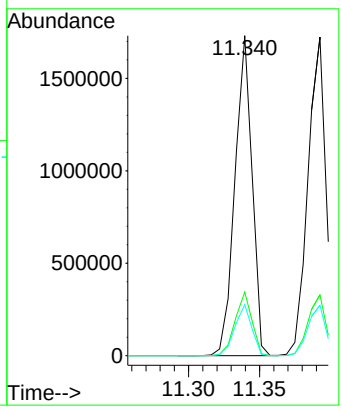




#71
Phenanthrene
Concen: 37.048 ng
RT: 11.340 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134544.D
Acq: 01 Aug 2023 12:50

Tgt Ion:178 Resp: 145860

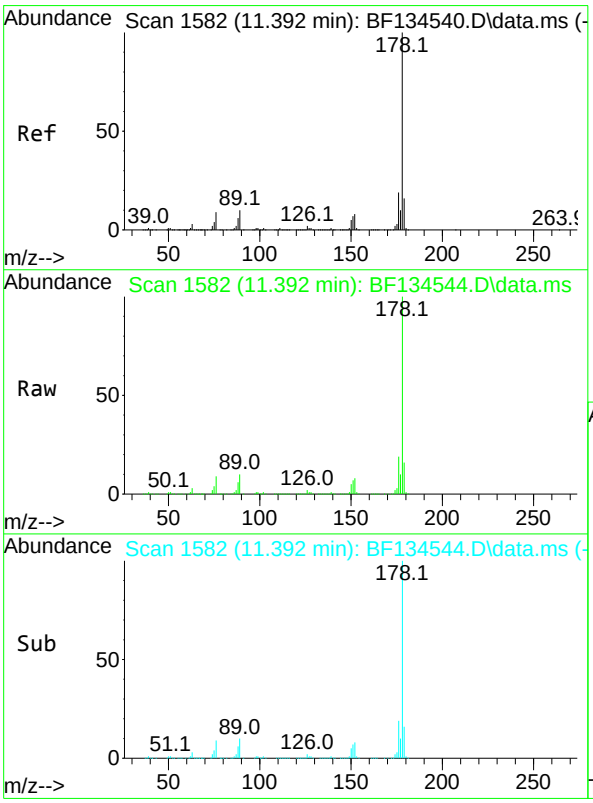
Ion	Ratio	Lower	Upper
178	100		
176	19.9	15.8	23.6
179	15.9	12.7	19.1



Instrument :
BNA_F
ClientSampleId :
ICVBF080123

Manual Integrations
APPROVED

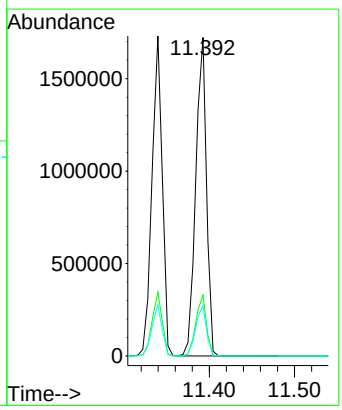
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

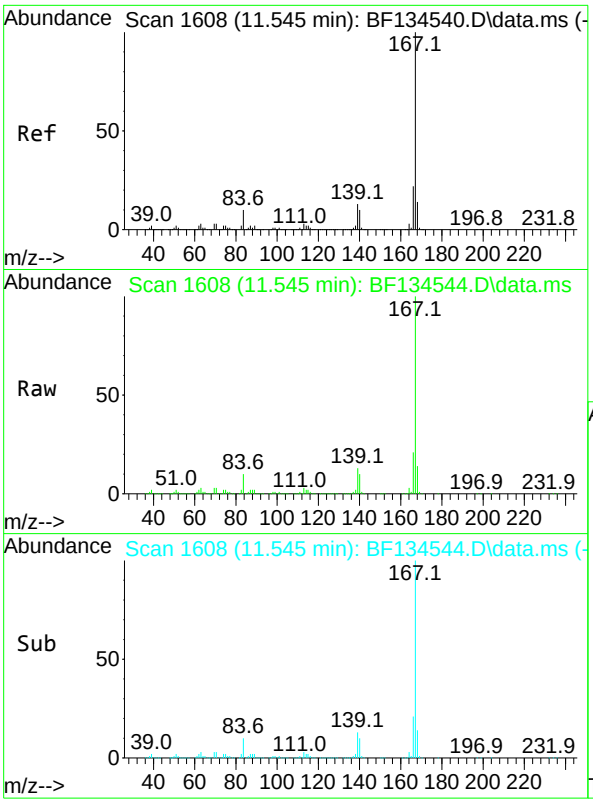


#72
Anthracene
Concen: 37.550 ng
RT: 11.392 min Scan# 1582
Delta R.T. 0.000 min
Lab File: BF134544.D
Acq: 01 Aug 2023 12:50

Tgt Ion:178 Resp: 1510083

Ion	Ratio	Lower	Upper
178	100		
176	19.1	14.6	21.8
179	15.8	12.3	18.5

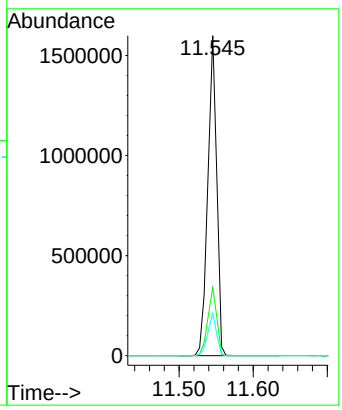




#73
Carbazole
Concen: 37.490 ng
RT: 11.545 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134544.D
Acq: 01 Aug 2023 12:50

Tgt Ion:167 Resp: 134615

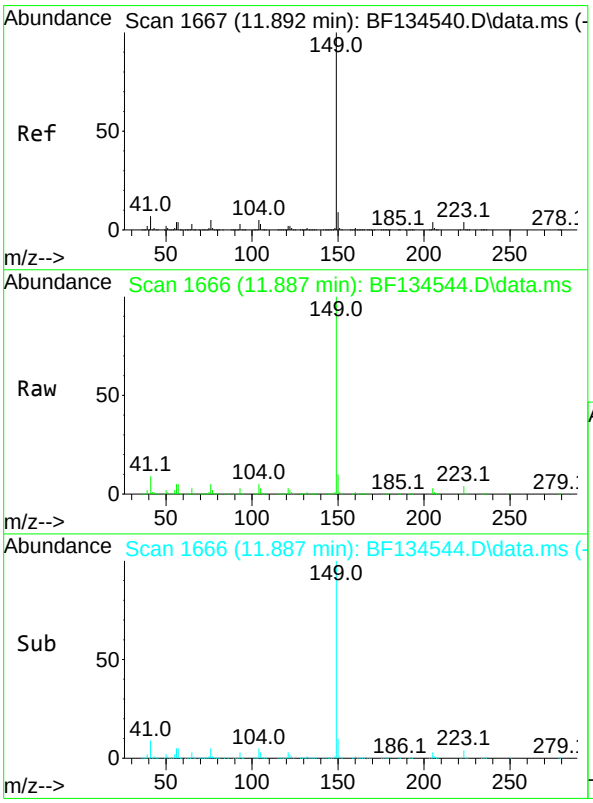
Ion	Ratio	Lower	Upper
167	100		
166	21.3	17.5	26.3
139	13.2	11.0	16.4



Instrument :
BNA_F
ClientSampleId :
ICVBF080123

Manual Integrations
APPROVED

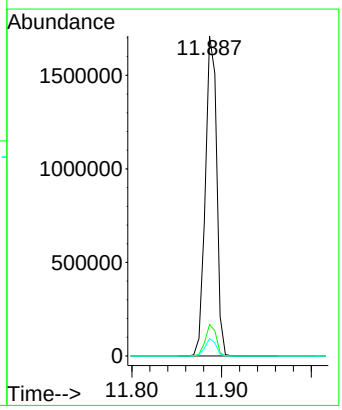
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

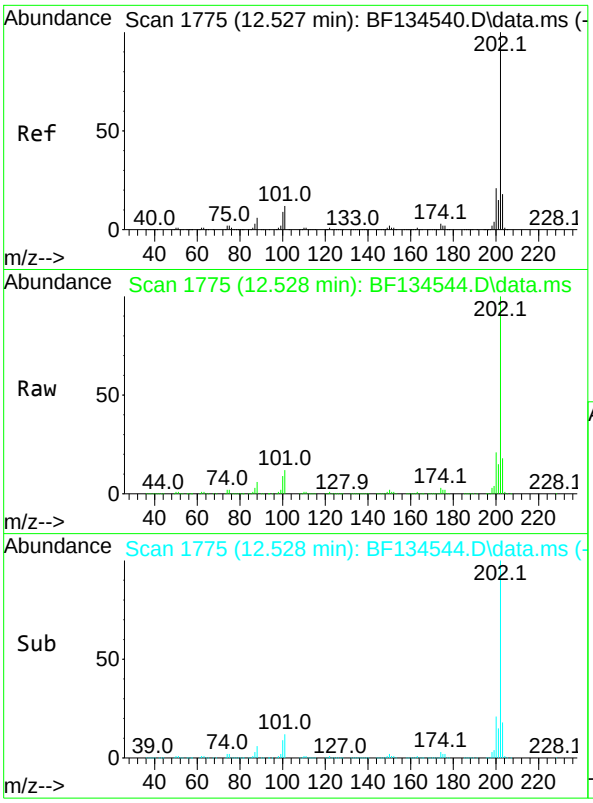


#74
Di-n-butylphthalate
Concen: 39.352 ng
RT: 11.887 min Scan# 1666
Delta R.T. -0.005 min
Lab File: BF134544.D
Acq: 01 Aug 2023 12:50

Tgt Ion:149 Resp: 1501150

Ion	Ratio	Lower	Upper
149	100		
150	9.8	7.2	10.8
104	5.4	3.8	5.8

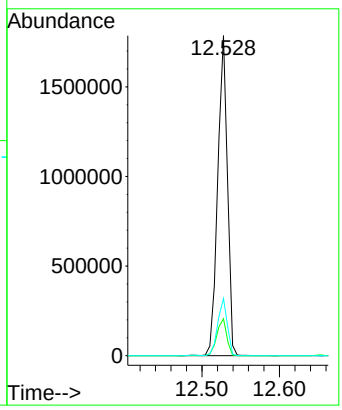




#75
Fluoranthene
Concen: 37.371 ng
RT: 12.528 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134544.D
Acq: 01 Aug 2023 12:50

Tgt Ion:202 Resp: 155415

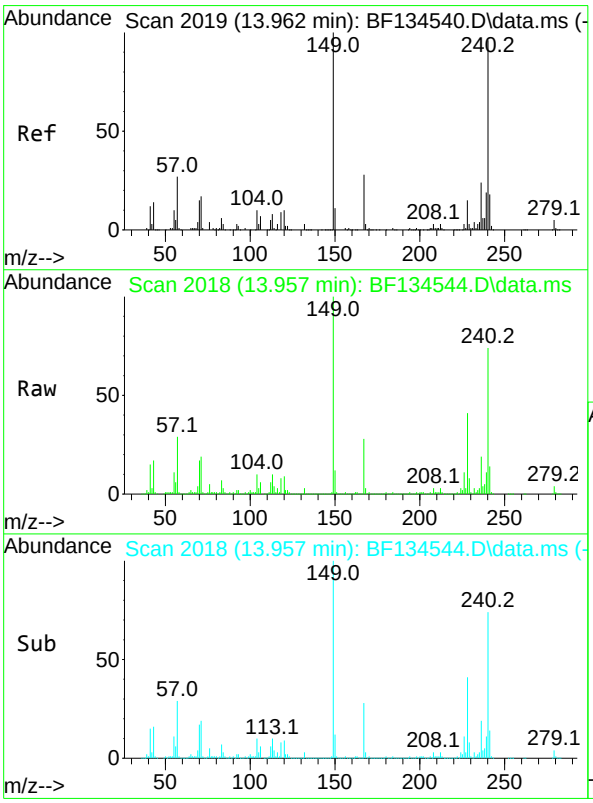
Ion	Ratio	Lower	Upper
202	100		
101	11.5	0.0	28.5
203	17.9	0.0	37.5



Instrument :
BNA_F
ClientSampleId :
ICVBF080123

Manual Integrations
APPROVED

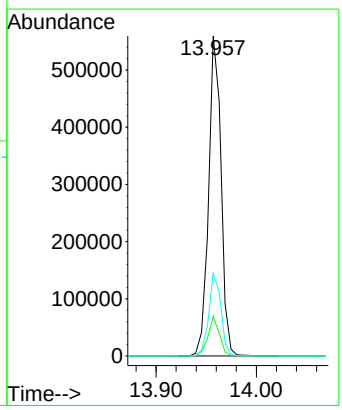
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

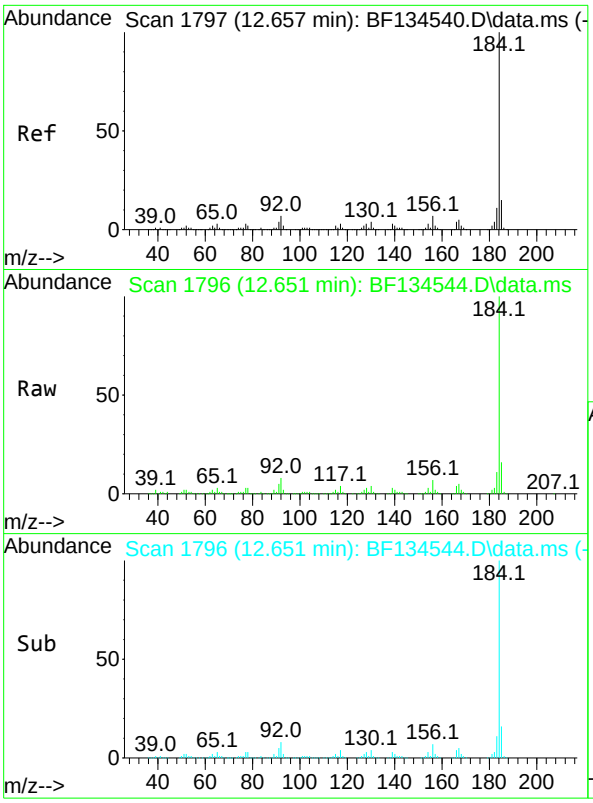


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.957 min Scan# 2018
Delta R.T. -0.005 min
Lab File: BF134544.D
Acq: 01 Aug 2023 12:50

Tgt Ion:240 Resp: 482018

Ion	Ratio	Lower	Upper
240	100		
120	12.3	6.6	10.0#
236	25.9	20.2	30.2

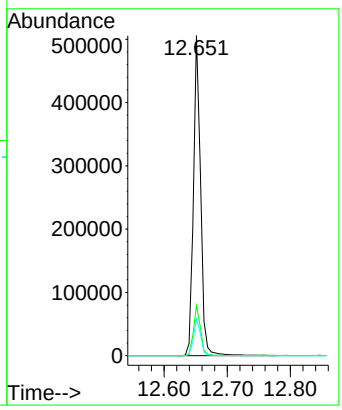




#77
Benzidine
Concen: 38.156 ng
RT: 12.651 min Scan# 1
Delta R.T. -0.005 min
Lab File: BF134544.D
Acq: 01 Aug 2023 12:50

Tgt Ion:184 Resp: 39924

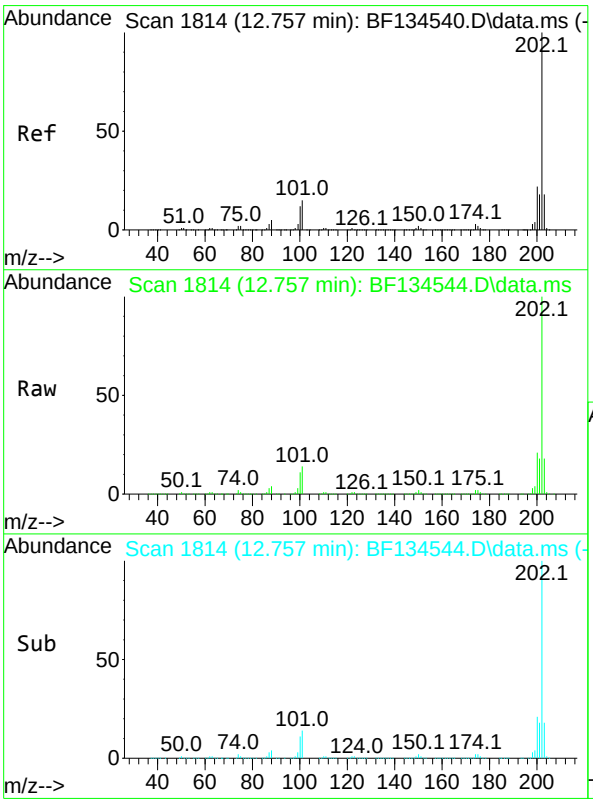
Ion	Ratio	Lower	Upper
184	100		
185	15.7	11.2	16.8
183	11.5	8.6	13.0



Instrument :
BNA_F
ClientSampleId :
ICVBF080123

Manual Integrations APPROVED

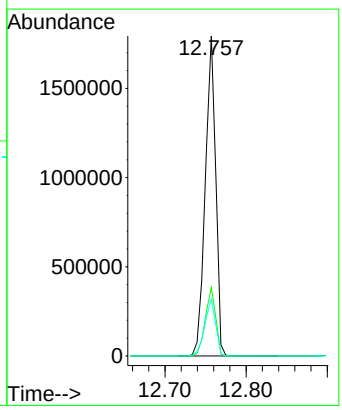
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

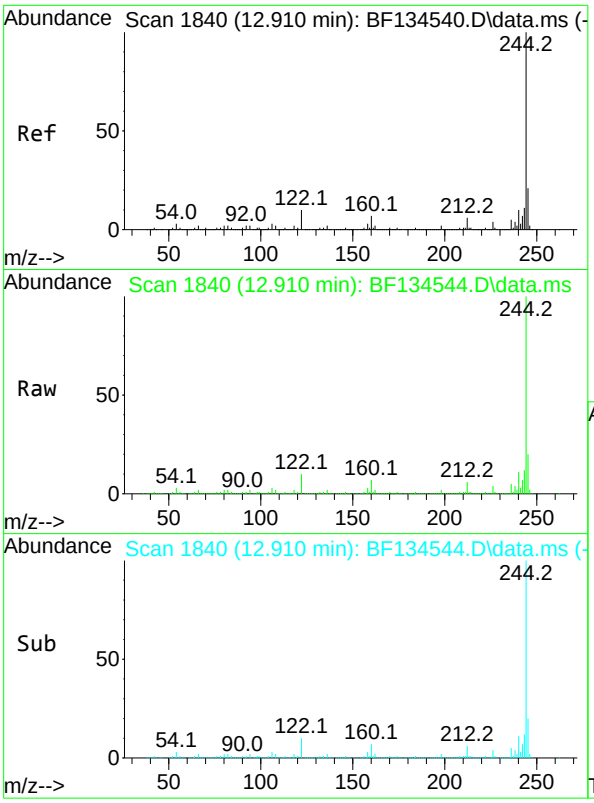


#78
Pyrene
Concen: 38.209 ng
RT: 12.757 min Scan# 1814
Delta R.T. 0.000 min
Lab File: BF134544.D
Acq: 01 Aug 2023 12:50

Tgt Ion:202 Resp: 1593671

Ion	Ratio	Lower	Upper
202	100		
200	21.4	15.8	23.8
203	17.8	13.5	20.3

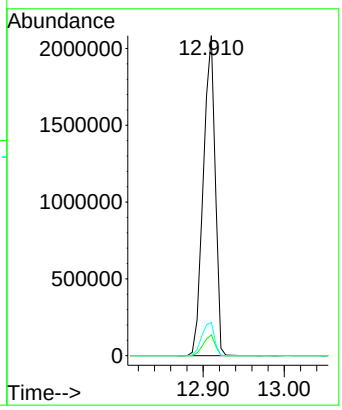




#79
Terphenyl-d14
Concen: 77.255 ng
RT: 12.910 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134544.D
Acq: 01 Aug 2023 12:50

Tgt Ion:244 Resp: 211236

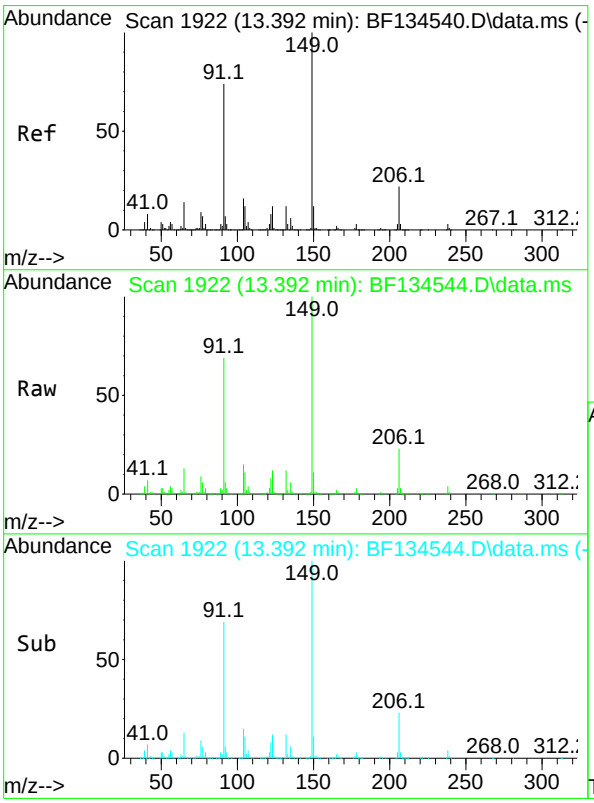
Ion	Ratio	Lower	Upper
244	100		
212	6.5	5.6	8.4
122	10.4	8.0	12.0



Instrument :
BNA_F
ClientSampleId :
ICVBF080123

Manual Integrations
APPROVED

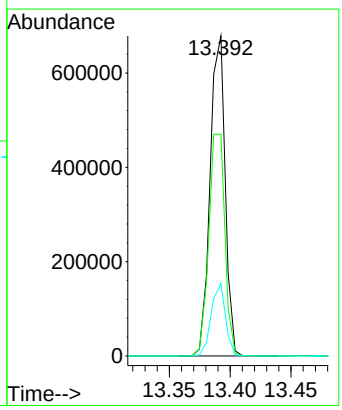
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

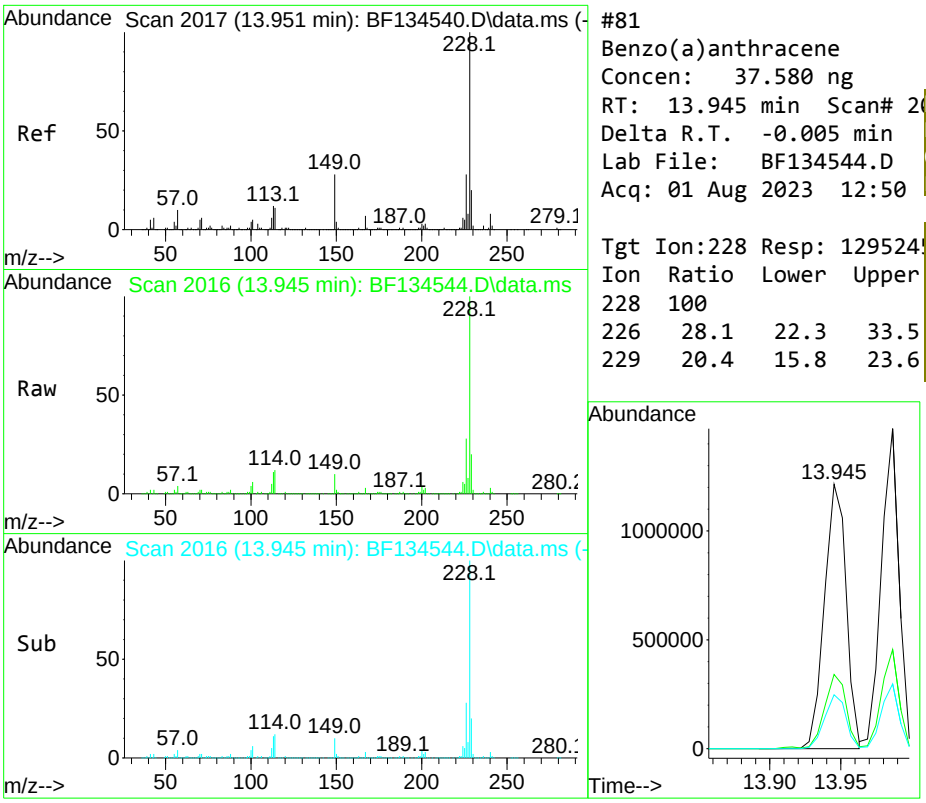


#80
Butylbenzylphthalate
Concen: 41.344 ng
RT: 13.392 min Scan# 1922
Delta R.T. 0.000 min
Lab File: BF134544.D
Acq: 01 Aug 2023 12:50

Tgt Ion:149 Resp: 583113

Ion	Ratio	Lower	Upper
149	100		
91	69.3	55.8	83.6
206	22.6	14.6	21.8#





#81
Benzo(a)anthracene
Concen: 37.580 ng
RT: 13.945 min Scan# 2
Delta R.T. -0.005 min
Lab File: BF134544.D
Acq: 01 Aug 2023 12:50

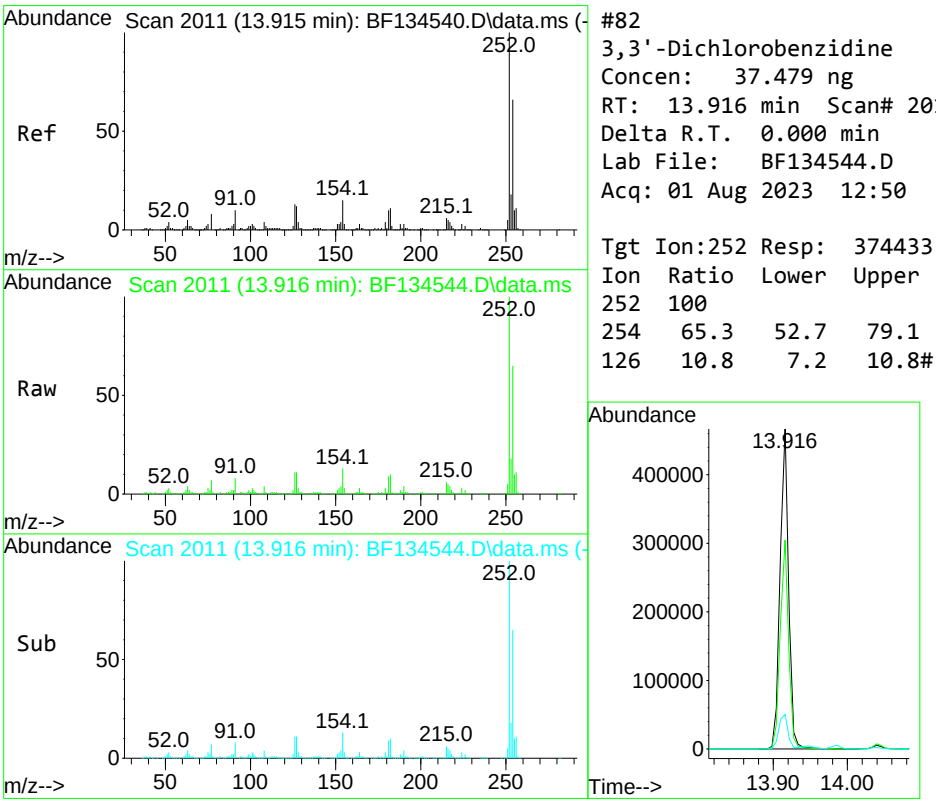
Tgt Ion:228 Resp: 129524

Ion	Ratio	Lower	Upper
228	100		
226	28.1	22.3	33.5
229	20.4	15.8	23.6

Instrument :
BNA_F
ClientSampleId :
ICVBF080123

Manual Integrations
APPROVED

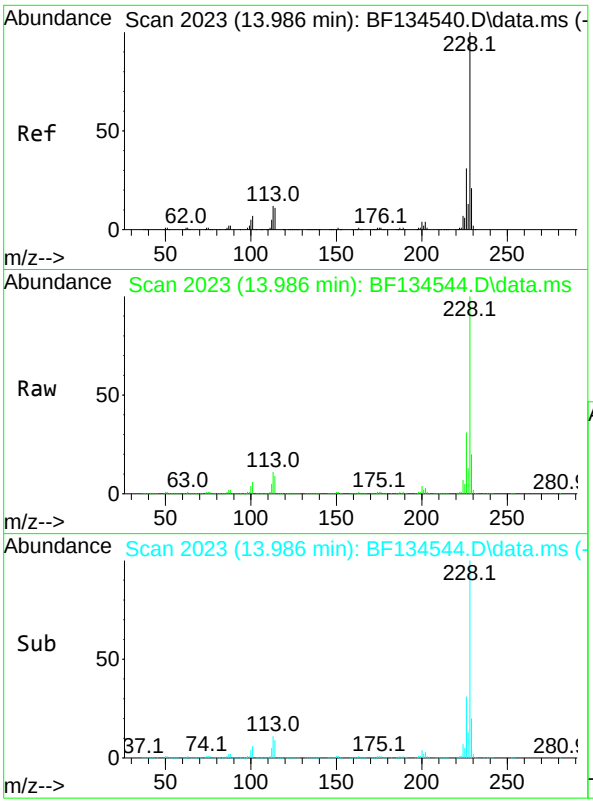
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023



#82
3,3'-Dichlorobenzidine
Concen: 37.479 ng
RT: 13.916 min Scan# 2011
Delta R.T. 0.000 min
Lab File: BF134544.D
Acq: 01 Aug 2023 12:50

Tgt Ion:252 Resp: 374433

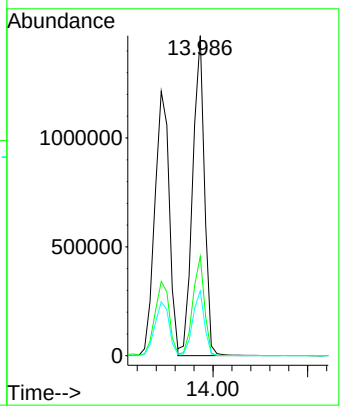
Ion	Ratio	Lower	Upper
252	100		
254	65.3	52.7	79.1
126	10.8	7.2	10.8#



#83
Chrysene
Concen: 37.952 ng
RT: 13.986 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF134544.D
Acq: 01 Aug 2023 12:50

Tgt Ion:228 Resp: 127440

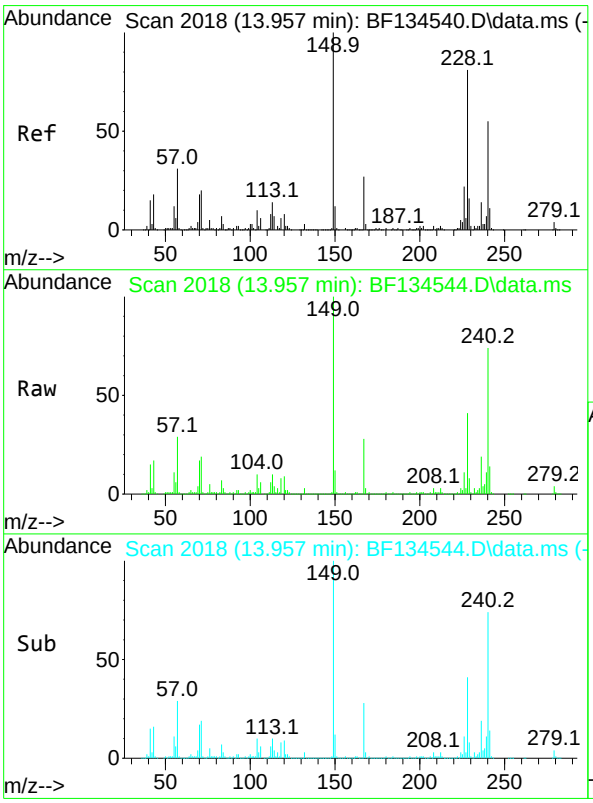
Ion	Ratio	Lower	Upper
228	100		
226	31.0	24.5	36.7
229	20.3	15.8	23.8



Instrument :
BNA_F
ClientSampleId :
ICVBF080123

Manual Integrations
APPROVED

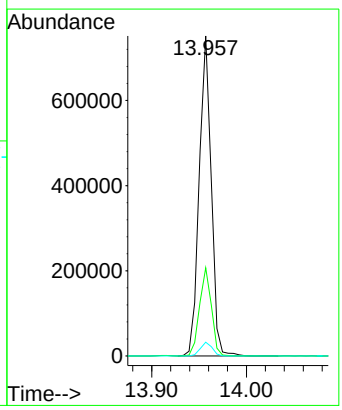
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

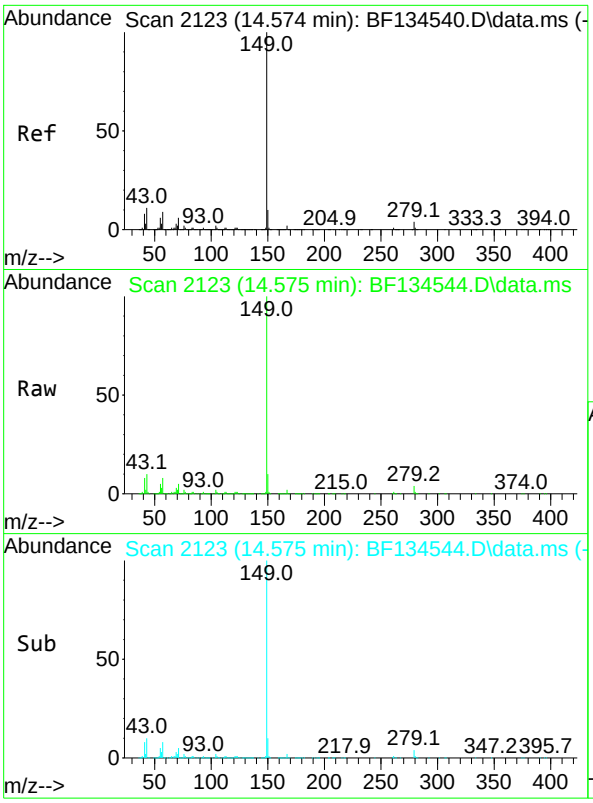


#84
Bis(2-ethylhexyl)phthalate
Concen: 39.915 ng
RT: 13.957 min Scan# 2018
Delta R.T. 0.000 min
Lab File: BF134544.D
Acq: 01 Aug 2023 12:50

Tgt Ion:149 Resp: 662500

Ion	Ratio	Lower	Upper
149	100		
167	27.5	21.6	32.4
279	4.3	3.5	5.3





#85
Di-n-octyl phthalate
Concen: 39.252 ng
RT: 14.575 min Scan# 21
Delta R.T. 0.000 min
Lab File: BF134544.D
Acq: 01 Aug 2023 12:50

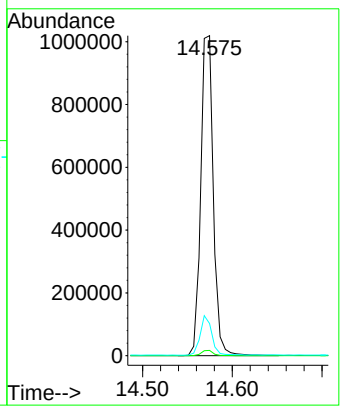
Tgt Ion:149 Resp: 99071

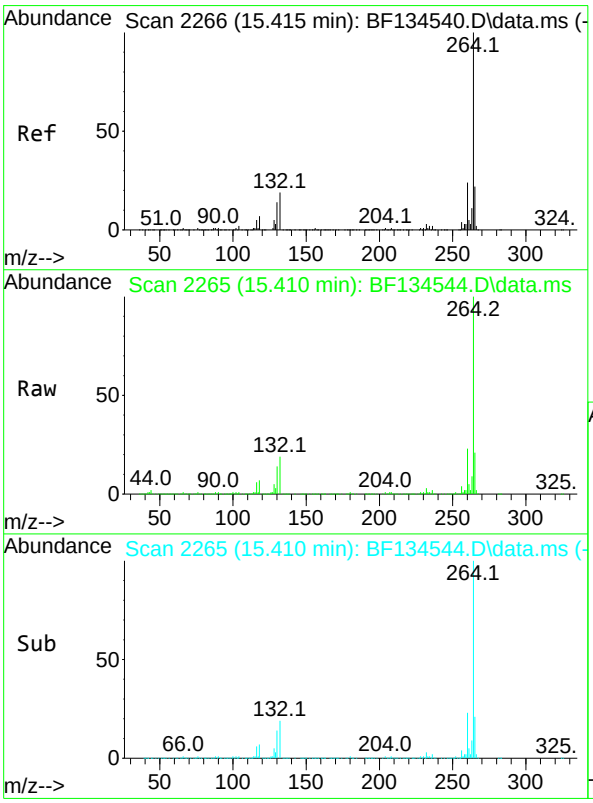
Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.2	1.8
43	11.4	8.1	12.1

Instrument :
BNA_F
ClientSampleId :
ICVBF080123

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

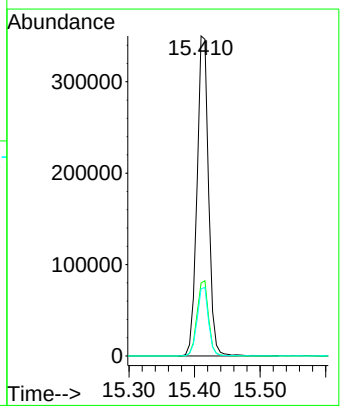


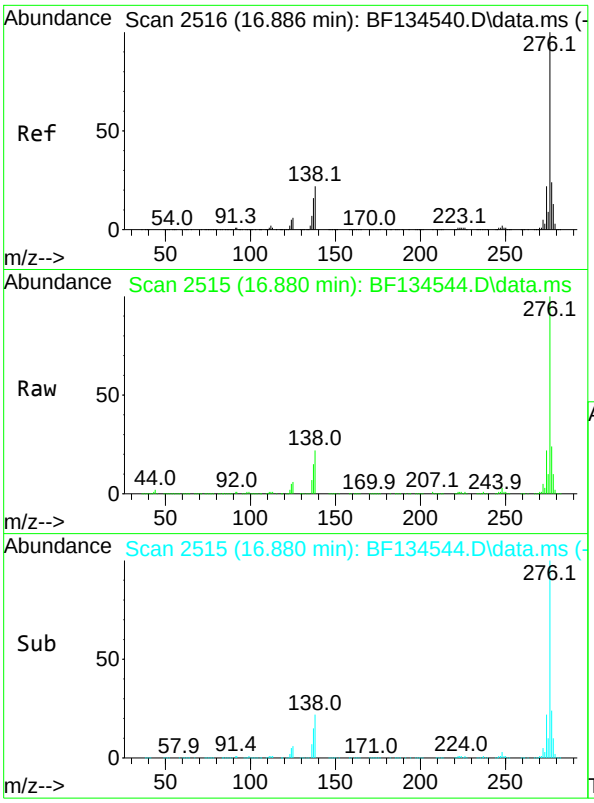


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.410 min Scan# 2265
Delta R.T. -0.005 min
Lab File: BF134544.D
Acq: 01 Aug 2023 12:50

Tgt Ion:264 Resp: 429657

Ion	Ratio	Lower	Upper
264	100		
260	22.8	18.4	27.6
265	21.0	15.8	23.8

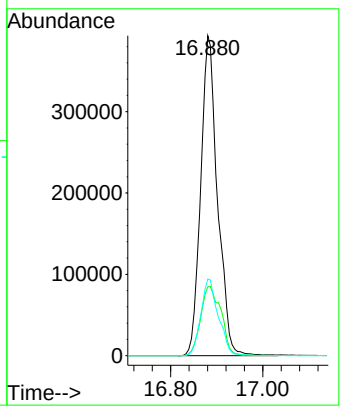




#87
Indeno(1,2,3-cd)pyrene
Concen: 39.633 ng
RT: 16.880 min Scan# 2
Delta R.T. -0.005 min
Lab File: BF134544.D
Acq: 01 Aug 2023 12:50

Tgt Ion:276 Resp: 100150

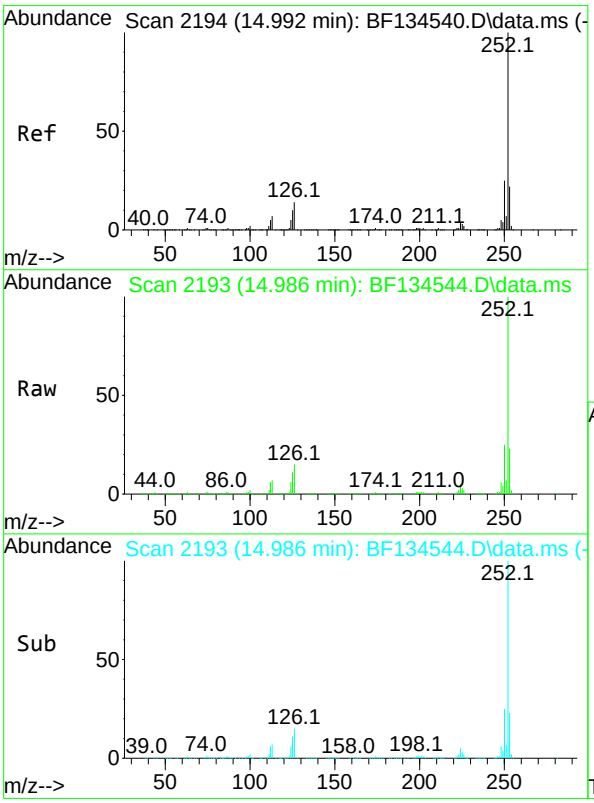
Ion	Ratio	Lower	Upper
276	100		
138	26.2	14.2	21.4#
277	24.9	19.9	29.9



Instrument :
BNA_F
ClientSampleId :
ICVBF080123

Manual Integrations
APPROVED

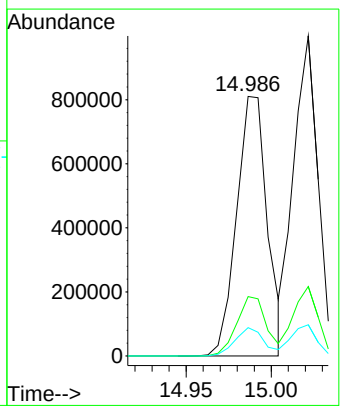
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

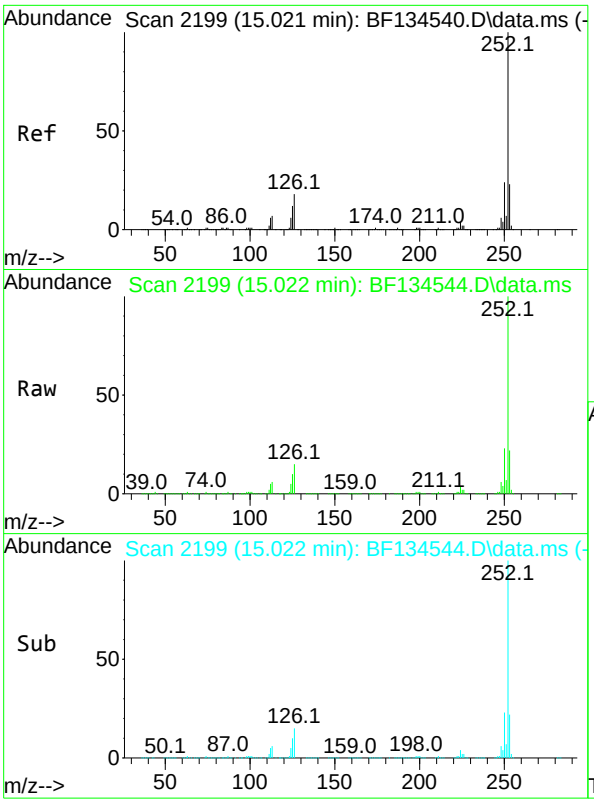


#88
Benzo(b)fluoranthene
Concen: 38.756 ng
RT: 14.986 min Scan# 2193
Delta R.T. -0.005 min
Lab File: BF134544.D
Acq: 01 Aug 2023 12:50

Tgt Ion:252 Resp: 1015565

Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.3	25.9
125	10.9	6.0	9.0#

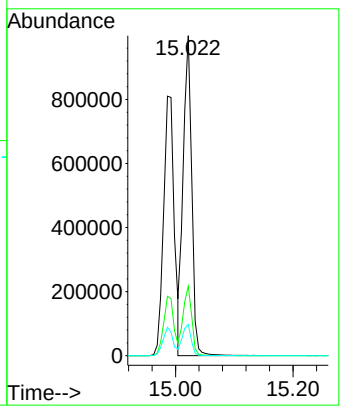




#89
Benzo(k)fluoranthene
Concen: 38.834 ng
RT: 15.022 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF134544.D
Acq: 01 Aug 2023 12:50

Tgt Ion:252 Resp: 101371

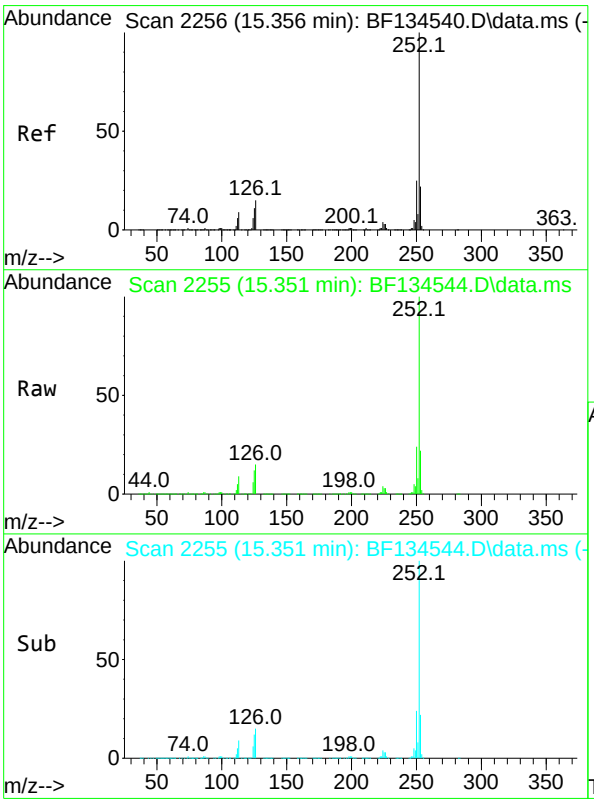
Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.9	26.9
125	9.8	6.3	9.5#



Instrument :
BNA_F
ClientSampleId :
ICVBF080123

Manual Integrations APPROVED

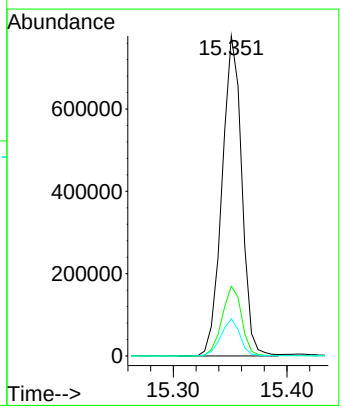
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

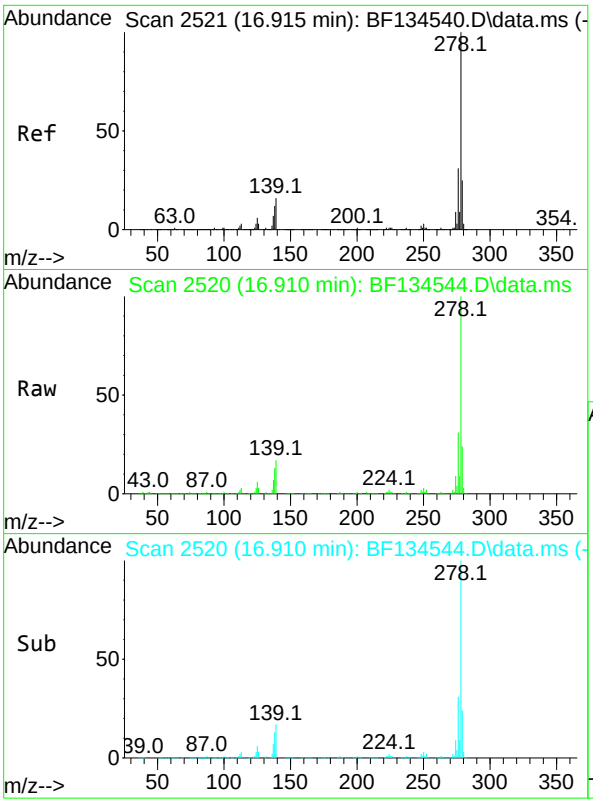


#90
Benzo(a)pyrene
Concen: 38.454 ng
RT: 15.351 min Scan# 2255
Delta R.T. -0.005 min
Lab File: BF134544.D
Acq: 01 Aug 2023 12:50

Tgt Ion:252 Resp: 939525

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.0	25.4
125	11.6	6.2	9.4#

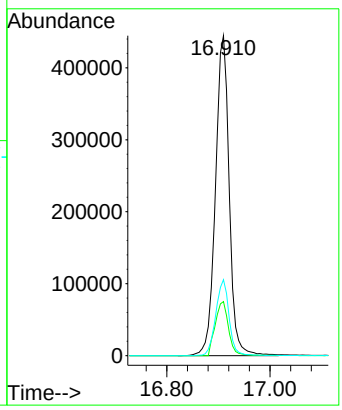




#91
Dibenzo(a,h)anthracene
Concen: 40.305 ng
RT: 16.910 min Scan# 2
Delta R.T. -0.005 min
Lab File: BF134544.D
Acq: 01 Aug 2023 12:50

Tgt Ion:278 Resp: 82308

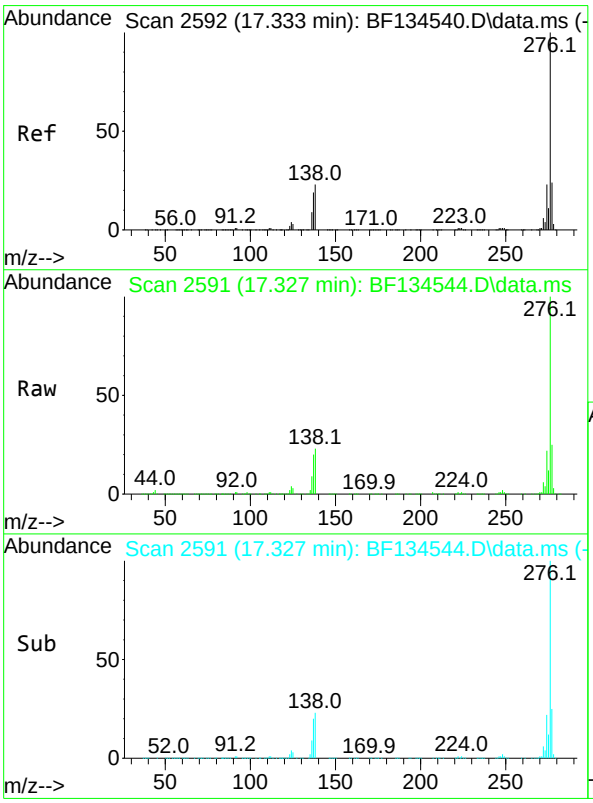
Ion	Ratio	Lower	Upper
278	100		
139	16.9	10.0	15.0#
279	23.7	19.7	29.5



Instrument :
BNA_F
ClientSampleId :
ICVBF080123

Manual Integrations
APPROVED

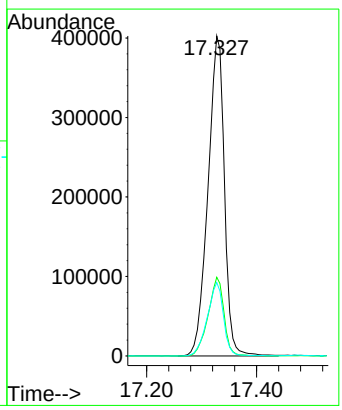
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023



#92
Benzo(g,h,i)perylene
Concen: 40.140 ng
RT: 17.327 min Scan# 2591
Delta R.T. -0.005 min
Lab File: BF134544.D
Acq: 01 Aug 2023 12:50

Tgt Ion:276 Resp: 836172

Ion	Ratio	Lower	Upper
276	100		
277	24.6	19.0	28.6
138	23.0	12.2	18.2#



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080123\
Data File : BF134544.D
Acq On : 01 Aug 2023 12:50
Operator : CG\JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF080123

Quant Time: Aug 02 02:22:23 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 02 02:20:34 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	96	0.00
2		1,4-Dioxane	0.605	0.577	4.6	91	0.00
3		Pyridine	1.640	1.575	4.0	93	0.00
4		n-Nitrosodimethylamine	0.784	0.758	3.3	92	0.00
5	S	2-Fluorophenol	1.316	1.245	5.4	91	0.00
6		Aniline	2.206	2.102	4.7	92	0.00
7	S	Phenol-d6	1.682	1.608	4.4	93	0.00
8		2-Chlorophenol	1.327	1.292	2.6	93	0.00
9		Benzaldehyde	0.917	0.784	14.5	93	0.00
10	C	Phenol	1.657	1.615	2.5	92	0.00
11		bis(2-Chloroethyl)ether	1.317	1.274	3.3	93	0.00
12		1,3-Dichlorobenzene	1.373	1.309	4.7	92	0.00
13	C	1,4-Dichlorobenzene	1.376	1.333	3.1	93	0.00
14		1,2-Dichlorobenzene	1.282	1.234	3.7	93	0.00
15		Benzyl Alcohol	1.160	1.150	0.9	94	0.00
16		2,2'-oxybis(1-Chloropropane	2.063	1.987	3.7	93	0.00
17		2-Methylphenol	1.173	1.141	2.7	93	0.00
18		Hexachloroethane	0.483	0.485	-0.4	97	0.00
19	P	n-Nitroso-di-n-propylamine	1.007	0.949	5.8	93	0.00
20		3+4-Methylphenols	1.414	1.381	2.3	93	0.00
21	I	Naphthalene-d8	1.000	1.000	0.0	99	0.00
22		Acetophenone	0.462	0.428	7.4	93	0.00
23	S	Nitrobenzene-d5	0.320	0.338	-5.6	98	0.00
24		Nitrobenzene	0.346	0.353	-2.0	96	0.00
25		Isophorone	0.698	0.656	6.0	94	0.00
26	C	2-Nitrophenol	0.122	0.148	-21.3#	106	0.00
27		2,4-Dimethylphenol	0.311	0.301	3.2	97	0.00
28		bis(2-Chloroethoxy)methane	0.418	0.397	5.0	95	0.00
29	C	2,4-Dichlorophenol	0.283	0.275	2.8	94	0.00
30		1,2,4-Trichlorobenzene	0.301	0.292	3.0	96	0.00
31		Naphthalene	1.005	0.948	5.7	93	0.00
32		Benzoic acid	0.176	0.198	-12.5	110	0.00
33		4-Chloroaniline	0.448	0.420	6.3	94	0.00
34	C	Hexachlorobutadiene	0.174	0.166	4.6	94	0.00
35		Caprolactam	0.091	0.088	3.3	92	0.00
36	C	4-Chloro-3-methylphenol	0.299	0.287	4.0	94	0.00
37		2-Methylnaphthalene	0.666	0.625	6.2	94	0.00
38		1-Methylnaphthalene	0.620	0.585	5.6	94	0.00
39	I	Acenaphthene-d10	1.000	1.000	0.0	101	0.00
40		1,2,4,5-Tetrachlorobenzene	0.582	0.551	5.3	95	0.00
41	P	Hexachlorocyclopentadiene	0.283	0.287	-1.4	95	0.00
42	S	2,4,6-Tribromophenol	0.204	0.204	0.0	95	0.00
43	C	2,4,6-Trichlorophenol	0.381	0.379	0.5	98	0.00
44		2,4,5-Trichlorophenol	0.435	0.431	0.9	97	0.00
45	S	2-Fluorobiphenyl	1.203	1.157	3.8	96	0.00
46		1,1'-Biphenyl	1.555	1.471	5.4	95	0.00
47		2-Chloronaphthalene	1.165	1.101	5.5	95	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080123\
Data File : BF134544.D
Acq On : 01 Aug 2023 12:50
Operator : CG\JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF080123

Quant Time: Aug 02 02:22:23 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 02 02:20:34 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
48		2-Nitroaniline	0.316	0.359	-13.6	100	0.00
49		Acenaphthylene	1.832	1.727	5.7	95	0.00
50		Dimethylphthalate	1.363	1.298	4.8	96	0.00
51		2,6-Dinitrotoluene	0.248	0.277	-11.7	100	0.00
52	C	Acenaphthene	1.187	1.117	5.9	95	0.00
53		3-Nitroaniline	0.304	0.330	-8.6	98	0.00
54	P	2,4-Dinitrophenol	0.079	0.088	-11.4	115	0.00
55		Dibenzofuran	1.690	1.593	5.7	93	0.00
56	P	4-Nitrophenol	0.248	0.254	-2.4	100	0.00
57		2,4-Dinitrotoluene	0.292	0.345	-18.2	102	0.00
58		Fluorene	1.231	1.125	8.6	95	0.00
59		2,3,4,6-Tetrachlorophenol	0.344	0.343	0.3	97	0.00
60		Diethylphthalate	1.292	1.235	4.4	95	0.00
61		4-Chlorophenyl-phenylether	0.605	0.556	8.1	95	0.00
62		4-Nitroaniline	0.298	0.319	-7.0	97	0.00
63		Azobenzene	1.388	1.332	4.0	96	0.00
64	I	Phenanthrene-d10	1.000	1.000	0.0	102	0.00
65		4,6-Dinitro-2-methylphenol	0.069	0.076	-10.1	110	0.00
66	c	n-Nitrosodiphenylamine	0.637	0.594	6.8	95	0.00
67		4-Bromophenyl-phenylether	0.219	0.206	5.9	95	0.00
68		Hexachlorobenzene	0.231	0.221	4.3	96	0.00
69		Atrazine	0.172	0.171	0.6	102	0.00
70	C	Pentachlorophenol	0.143	0.151	-5.6	99	0.00
71		Phenanthrene	1.062	0.984	7.3	94	0.00
72		Anthracene	1.085	1.019	6.1	95	0.00
73		Carbazole	0.969	0.908	6.3	95	0.00
74		Di-n-butylphthalate	1.029	1.013	1.6	97	0.00
75	C	Fluoranthene	1.122	1.048	6.6	93	0.00
76	I	Chrysene-d12	1.000	1.000	0.0	99	0.00
77		Benzidine	0.434	0.414	4.6	85	0.00
78		Pyrene	1.731	1.653	4.5	94	0.00
79	S	Terphenyl-d14	1.135	1.096	3.4	96	0.00
80		Butylbenzylphthalate	0.585	0.605	-3.4	95	0.00
81		Benzo(a)anthracene	1.430	1.344	6.0	92	0.00
82		3,3'-Dichlorobenzidine	0.415	0.388	6.5	92	0.00
83		Chrysene	1.393	1.322	5.1	94	0.00
84		Bis(2-ethylhexyl)phthalate	0.689	0.687	0.3	94	0.00
85	c	Di-n-octyl phthalate	1.047	1.028	1.8	92	0.00
86	I	Perylene-d12	1.000	1.000	0.0	97	0.00
87		Indeno(1,2,3-cd)pyrene	1.176	1.165	0.9	90	0.00
88		Benzo(b)fluoranthene	1.220	1.182	3.1	95	0.00
89		Benzo(k)fluoranthene	1.215	1.180	2.9	89	0.00
90	C	Benzo(a)pyrene	1.137	1.093	3.9	91	0.00
91		Dibenzo(a,h)anthracene	0.951	0.958	-0.7	92	0.00
92		Benzo(g,h,i)perylene	0.970	0.973	-0.3	91	0.00

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080123\
Data File : BF134544.D
Acq On : 01 Aug 2023 12:50
Operator : CG\JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF080123

Quant Time: Aug 02 02:22:23 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 02 02:20:34 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev Area%	Dev(min)

(#) = Out of Range SPCC's out = 0 CCC's out = 1

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080123\
Data File : BF134544.D
Acq On : 01 Aug 2023 12:50
Operator : CG\JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF080123

Quant Time: Aug 02 02:22:23 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 02 02:20:34 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	20.000	20.000	0.0	96	0.00
2		1,4-Dioxane	40.000	38.148	4.6	91	0.00
3		Pyridine	40.000	38.406	4.0	93	0.00
4		n-Nitrosodimethylamine	40.000	38.673	3.3	92	0.00
5	S	2-Fluorophenol	80.000	75.722	5.3	91	0.00
6		Aniline	40.000	38.117	4.7	92	0.00
7	S	Phenol-d6	80.000	76.467	4.4	93	0.00
8		2-Chlorophenol	40.000	38.929	2.7	93	0.00
9		Benzaldehyde	40.000	38.105	4.7	93	0.00
10	C	Phenol	40.000	38.983	2.5	92	0.00
11		bis(2-Chloroethyl)ether	40.000	38.714	3.2	93	0.00
12		1,3-Dichlorobenzene	40.000	38.142	4.6	92	0.00
13	C	1,4-Dichlorobenzene	40.000	38.755	3.1	93	0.00
14		1,2-Dichlorobenzene	40.000	38.479	3.8	93	0.00
15		Benzyl Alcohol	40.000	39.629	0.9	94	0.00
16		2,2'-oxybis(1-Chloropropane	40.000	38.530	3.7	93	0.00
17		2-Methylphenol	40.000	38.910	2.7	93	0.00
18		Hexachloroethane	40.000	40.128	-0.3	97	0.00
19	P	n-Nitroso-di-n-propylamine	40.000	37.716	5.7	93	0.00
20		3+4-Methylphenols	40.000	39.066	2.3	93	0.00
21	I	Naphthalene-d8	20.000	20.000	0.0	99	0.00
22		Acetophenone	40.000	37.043	7.4	93	0.00
23	S	Nitrobenzene-d5	80.000	84.473	-5.6	98	0.00
24		Nitrobenzene	40.000	40.832	-2.1	96	0.00
25		Isophorone	40.000	37.564	6.1	94	0.00
26	C	2-Nitrophenol	40.000	40.986	-2.5	106	0.00
27		2,4-Dimethylphenol	40.000	38.699	3.3	97	0.00
28		bis(2-Chloroethoxy)methane	40.000	37.995	5.0	95	0.00
29	C	2,4-Dichlorophenol	40.000	38.858	2.9	94	0.00
30		1,2,4-Trichlorobenzene	40.000	38.712	3.2	96	0.00
31		Naphthalene	40.000	37.728	5.7	93	0.00
32		Benzoic acid	40.000	40.424	-1.1	110	0.00
33		4-Chloroaniline	40.000	37.512	6.2	94	0.00
34	C	Hexachlorobutadiene	40.000	38.213	4.5	94	0.00
35		Caprolactam	40.000	38.700	3.2	92	0.00
36	C	4-Chloro-3-methylphenol	40.000	38.337	4.2	94	0.00
37		2-Methylnaphthalene	40.000	37.519	6.2	94	0.00
38		1-Methylnaphthalene	40.000	37.754	5.6	94	0.00
39	I	Acenaphthene-d10	20.000	20.000	0.0	101	0.00
40		1,2,4,5-Tetrachlorobenzene	40.000	37.878	5.3	95	0.00
41	P	Hexachlorocyclopentadiene	40.000	40.567	-1.4	95	0.00
42	S	2,4,6-Tribromophenol	80.000	79.927	0.1	95	0.00
43	C	2,4,6-Trichlorophenol	40.000	39.802	0.5	98	0.00
44		2,4,5-Trichlorophenol	40.000	39.669	0.8	97	0.00
45	S	2-Fluorobiphenyl	80.000	76.977	3.8	96	0.00
46		1,1'-Biphenyl	40.000	37.830	5.4	95	0.00
47		2-Chloronaphthalene	40.000	37.782	5.5	95	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080123\
Data File : BF134544.D
Acq On : 01 Aug 2023 12:50
Operator : CG\JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF080123

Quant Time: Aug 02 02:22:23 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 02 02:20:34 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
48		2-Nitroaniline	40.000	40.053	-0.1	100	0.00
49		Acenaphthylene	40.000	37.708	5.7	95	0.00
50		Dimethylphthalate	40.000	38.079	4.8	96	0.00
51		2,6-Dinitrotoluene	40.000	40.100	-0.3	100	0.00
52	C	Acenaphthene	40.000	37.648	5.9	95	0.00
53		3-Nitroaniline	40.000	43.450	-8.6	98	0.00
54	P	2,4-Dinitrophenol	40.000	41.497	-3.7	115	0.00
55		Dibenzofuran	40.000	37.710	5.7	93	0.00
56	P	4-Nitrophenol	40.000	40.955	-2.4	100	0.00
57		2,4-Dinitrotoluene	40.000	41.313	-3.3	102	0.00
58		Fluorene	40.000	36.552	8.6	95	0.00
59		2,3,4,6-Tetrachlorophenol	40.000	39.840	0.4	97	0.00
60		Diethylphthalate	40.000	38.232	4.4	95	0.00
61		4-Chlorophenyl-phenylether	40.000	36.774	8.1	95	0.00
62		4-Nitroaniline	40.000	42.842	-7.1	97	0.00
63		Azobenzene	40.000	38.370	4.1	96	0.00
64	I	Phenanthrene-d10	20.000	20.000	0.0	102	0.00
65		4,6-Dinitro-2-methylphenol	40.000	39.539	1.2	110	0.00
66	c	n-Nitrosodiphenylamine	40.000	37.346	6.6	95	0.00
67		4-Bromophenyl-phenylether	40.000	37.577	6.1	95	0.00
68		Hexachlorobenzene	40.000	38.292	4.3	96	0.00
69		Atrazine	40.000	39.911	0.2	102	0.00
70	C	Pentachlorophenol	40.000	42.156	-5.4	99	0.00
71		Phenanthrene	40.000	37.048	7.4	94	0.00
72		Anthracene	40.000	37.550	6.1	95	0.00
73		Carbazole	40.000	37.490	6.3	95	0.00
74		Di-n-butylphthalate	40.000	39.352	1.6	97	0.00
75	C	Fluoranthene	40.000	37.371	6.6	93	0.00
76	I	Chrysene-d12	20.000	20.000	0.0	99	0.00
77		Benzidine	40.000	38.156	4.6	85	0.00
78		Pyrene	40.000	38.209	4.5	94	0.00
79	S	Terphenyl-d14	80.000	77.255	3.4	96	0.00
80		Butylbenzylphthalate	40.000	41.344	-3.4	95	0.00
81		Benzo(a)anthracene	40.000	37.580	6.1	92	0.00
82		3,3'-Dichlorobenzidine	40.000	37.479	6.3	92	0.00
83		Chrysene	40.000	37.952	5.1	94	0.00
84		Bis(2-ethylhexyl)phthalate	40.000	39.915	0.2	94	0.00
85	c	Di-n-octyl phthalate	40.000	39.252	1.9	92	0.00
86	I	Perylene-d12	20.000	20.000	0.0	97	0.00
87		Indeno(1,2,3-cd)pyrene	40.000	39.633	0.9	90	0.00
88		Benzo(b)fluoranthene	40.000	38.756	3.1	95	0.00
89		Benzo(k)fluoranthene	40.000	38.834	2.9	89	0.00
90	C	Benzo(a)pyrene	40.000	38.454	3.9	91	0.00
91		Dibenzo(a,h)anthracene	40.000	40.305	-0.8	92	0.00
92		Benzo(g,h,i)perylene	40.000	40.140	-0.4	91	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080123\
Data File : BF134544.D
Acq On : 01 Aug 2023 12:50
Operator : CG\JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF080123

Quant Time: Aug 02 02:22:23 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 02 02:20:34 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)

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

Response Factor Report GC/MS Ins

Method Path : Z:\svoasrv\HPCHEM1\BNA_G\Methods\
Method File : 8270-BG072823.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Jul 28 22:29:07 2023
Response Via : Initial Calibration

Calibration Files
2.5 =BG058510.D 5 =BG058511.D 10 =BG058512.D 20 =BG058513.D 40 =BG058514.D 50 =BG058515.D 60 =BG058516.D 80 =BG0585
17.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------	ISTD	----------							
2)		1,4-Dioxane		0.672	0.707	0.678	0.630	0.591	0.604	0.556	0.634	8.50
3)		Pyridine		1.800	1.767	1.861	1.755	1.648	1.690	1.580	1.729	5.53
4)		n-Nitrosodimet...		0.778	0.762	0.788	0.737	0.693	0.707	0.662	0.732	6.39
5)	S	2-Fluorophenol		1.394	1.389	1.419	1.318	1.230	1.250	1.159	1.309	7.52
6)		Aniline		2.285	2.268	2.387	2.318	2.168	2.190	2.076	2.242	4.64
7)	S	Phenol-d6		1.923	1.870	1.962	1.855	1.737	1.759	1.639	1.821	6.25
8)		2-Chlorophenol		1.347	1.329	1.393	1.290	1.220	1.247	1.160	1.284	6.25
9)		Benzaldehyde			1.165	1.118	0.948	0.861	0.854		0.989	14.64
10)	C	Phenol		1.838	1.857	1.912	1.818	1.691	1.730	1.606	1.779	6.03
11)		bis(2-Chloroet...		1.536	1.455	1.465	1.387	1.344	1.374	1.256	1.402	6.54
12)		1,3-Dichlorobe...		1.463	1.456	1.500	1.367	1.287	1.307	1.216	1.371	7.74
13)	C	1,4-Dichlorobe...		1.503	1.446	1.479	1.376	1.288	1.328	1.215	1.376	7.71
14)		1,2-Dichlorobe...		1.412	1.419	1.431	1.315	1.229	1.250	1.155	1.316	8.27
15)		Benzyl Alcohol		0.934	1.098	1.224	1.234	1.182	1.235	1.176	1.155	9.38
16)		2,2'-oxybis(1-...		2.403	2.394	2.421	2.272	2.178	2.198	2.077	2.278	5.85
17)		2-Methylphenol		1.349	1.379	1.373	1.313	1.238	1.261	1.189	1.300	5.58
18)		Hexachloroethane		0.544	0.523	0.528	0.500	0.474	0.484	0.450	0.500	6.68
19)	P	n-Nitroso-di-n...	1.237	1.220	1.214	1.251	1.181	1.113	1.134	1.058	1.176	5.77
20)		3+4-Methylphenols		1.733	1.744	1.898	1.830	1.721	1.752	1.635	1.759	4.77
21)	I	Naphthalene-d8	----------	ISTD	----------							
22)		Acetophenone		0.540	0.539	0.577	0.548	0.517	0.526	0.502	0.536	4.48
23)	S	Nitrobenzene-d5		0.402	0.406	0.434	0.416	0.393	0.409	0.389	0.407	3.73
24)		Nitrobenzene		0.395	0.427	0.440	0.423	0.401	0.415	0.396	0.414	4.17
25)		Isophorone		0.847	0.868	0.883	0.851	0.808	0.830	0.801	0.841	3.57
26)	C	2-Nitrophenol		0.163	0.172	0.185	0.189	0.181	0.189	0.182	0.180	5.27
27)		2,4-Dimethylph...		0.289	0.295	0.317	0.308	0.293	0.298	0.292	0.299	3.39
28)		bis(2-Chloroet...		0.433	0.467	0.485	0.475	0.446	0.462	0.436	0.458	4.34
29)	C	2,4-Dichloroph...		0.294	0.305	0.326	0.323	0.302	0.315	0.307	0.310	3.76
30)		1,2,4-Trichlor...		0.370	0.363	0.376	0.363	0.343	0.352	0.337	0.358	4.05
31)		Naphthalene		1.104	1.108	1.122	1.062	0.997	1.025	0.960	1.054	5.89
32)		Benzoic acid			0.130	0.180	0.236	0.224	0.241	0.233	0.207	21.11
33)		4-Chloroaniline		0.395	0.433	0.464	0.476	0.441	0.463	0.445	0.445	6.01
34)	C	Hexachlorobuta...		0.238	0.229	0.246	0.232	0.219	0.229	0.220	0.230	4.05
35)		Caprolactam		0.110	0.121	0.120	0.119	0.109	0.113	0.111	0.115	4.54
36)	C	4-Chloro-3-met...		0.368	0.388	0.406	0.397	0.375	0.384	0.369	0.384	3.73
37)		2-Methylnaphth...		0.793	0.777	0.796	0.766	0.717	0.733	0.696	0.754	5.17
38)		1-Methylnaphth...		0.766	0.765	0.757	0.715	0.672	0.693	0.649	0.717	6.61

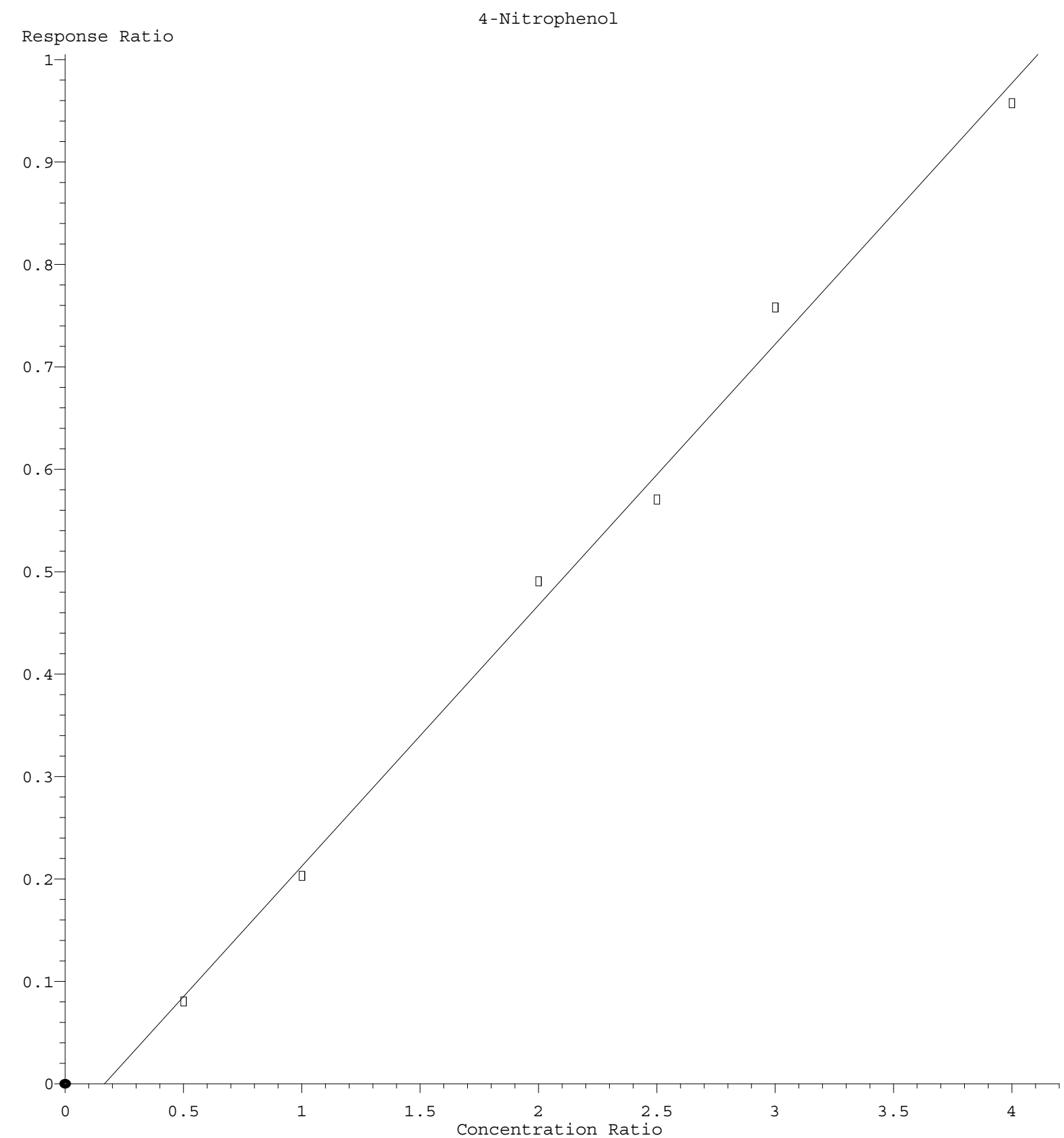
Method Path : Z:\svoasrv\HPCHEM1\BNA_G\Methods\
Method File : 8270-BG072823.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.634	0.623	0.642	0.613	0.594	0.615	0.577	0.614	3.65
41)	P	Hexachlorocycl...		0.135	0.203	0.249	0.264	0.278	0.289	0.236	24.54
42)	S	2,4,6-Tribromo...	0.326	0.344	0.346	0.334	0.313	0.326	0.306	0.328	4.51
43)	C	2,4,6-Trichlor...	0.411	0.414	0.442	0.435	0.412	0.433	0.409	0.422	3.31
44)		2,4,5-Trichlor...	0.506	0.521	0.493	0.499	0.478	0.505	0.479	0.497	3.12
45)	S	2-Fluorobiphenyl	1.469	1.429	1.449	1.313	1.240	1.279	1.163	1.335	8.76
46)		1,1'-Biphenyl	1.422	1.425	1.455	1.370	1.328	1.355	1.258	1.374	4.92
47)		2-Chloronaphth...	1.103	1.102	1.138	1.067	1.026	1.065	0.997	1.071	4.52
48)		2-Nitroaniline	0.364	0.385	0.432	0.427	0.412	0.429	0.411	0.409	6.21
49)		Acenaphthylene	1.890	1.876	1.919	1.802	1.697	1.752	1.615	1.793	6.24
50)		Dimethylphthalate	1.585	1.583	1.595	1.501	1.421	1.468	1.362	1.502	6.03
51)		2,6-Dinitrotol...	0.321	0.338	0.345	0.335	0.319	0.332	0.317	0.330	3.21
52)	C	Acenaphthene	1.096	1.077	1.108	1.030	0.981	1.018	0.942	1.036	5.94
53)		3-Nitroaniline	0.281	0.315	0.351	0.347	0.333	0.350	0.331	0.330	7.60
54)	P	2,4-Dinitrophenol		0.076	0.120	0.164	0.166	0.188	0.185	0.150	29.14
55)		Dibenzofuran	1.911	1.931	1.899	1.773	1.661	1.711	1.576	1.780	7.77
56)	P	4-Nitrophenol		0.161	0.203	0.245	0.228	0.253	0.239	0.222	15.53
57)		2,4-Dinitrotol...	0.415	0.466	0.492	0.473	0.448	0.466	0.439	0.457	5.51
58)		Fluorene	1.561	1.548	1.529	1.397	1.304	1.333	1.227	1.414	9.43
59)		2,3,4,6-Tetrac...	0.431	0.438	0.432	0.430	0.408	0.426	0.408	0.424	2.81
60)		Diethylphthalate	1.626	1.678	1.634	1.527	1.422	1.469	1.355	1.530	7.90
61)		4-Chlorophenyl...	0.850	0.834	0.833	0.782	0.744	0.762	0.714	0.788	6.55
62)		4-Nitroaniline	0.243	0.310	0.329	0.338	0.312	0.336	0.318	0.312	10.37
63)		Azobenzene	1.594	1.615	1.605	1.515	1.416	1.456	1.350	1.507	6.88
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.083	0.103	0.118	0.115	0.123	0.119	0.110	13.45
66)	c	n-Nitrosodiphe...	0.533	0.535	0.564	0.522	0.502	0.508	0.481	0.521	5.16
67)		4-Bromophenyl-...	0.230	0.230	0.236	0.227	0.220	0.228	0.217	0.227	2.76
68)		Hexachlorobenzene	0.251	0.245	0.253	0.238	0.232	0.239	0.226	0.240	4.13
69)		Atrazine	0.191	0.197	0.195	0.176	0.161	0.159	0.151	0.176	10.72
70)	C	Pentachlorophenol		0.110	0.139	0.155	0.152	0.161	0.156	0.145	13.09
71)		Phenanthrene	1.024	1.019	1.023	0.943	0.883	0.910	0.838	0.948	7.99
72)		Anthracene	1.041	1.042	1.051	0.975	0.911	0.937	0.857	0.973	7.73
73)		Carbazole	0.846	0.913	0.928	0.885	0.812	0.849	0.775	0.858	6.34
74)		Di-n-butylphth...	1.080	1.164	1.168	1.098	1.013	1.050	0.953	1.075	7.24
75)	C	Fluoranthene	1.202	1.245	1.230	1.156	1.048	1.099	0.996	1.139	8.32
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine	0.279	0.303	0.242	0.370	0.317	0.298	0.314	0.303	12.82
78)		Pyrene	1.438	1.453	1.447	1.362	1.287	1.320	1.219	1.361	6.65
79)	S	Terphenyl-d14	1.178	1.169	1.153	1.051	0.985	1.001	0.907	1.064	9.94
80)		Butylbenzylpht...	0.554	0.568	0.585	0.571	0.550	0.561	0.525	0.559	3.36
81)		Benzo(a)anthra...	1.430	1.443	1.436	1.386	1.311	1.362	1.267	1.376	4.91
82)		3,3'-Dichlorob...	0.440	0.478	0.490	0.481	0.453	0.472	0.444	0.465	4.22
83)		Chrysene	1.361	1.397	1.393	1.325	1.258	1.291	1.212	1.320	5.30
84)		Bis(2-ethylhex...	0.834	0.849	0.866	0.833	0.783	0.809	0.746	0.817	5.05
85)	c	Di-n-octyl pht...	1.450	1.466	1.501	1.467	1.393	1.443	1.335	1.436	3.85

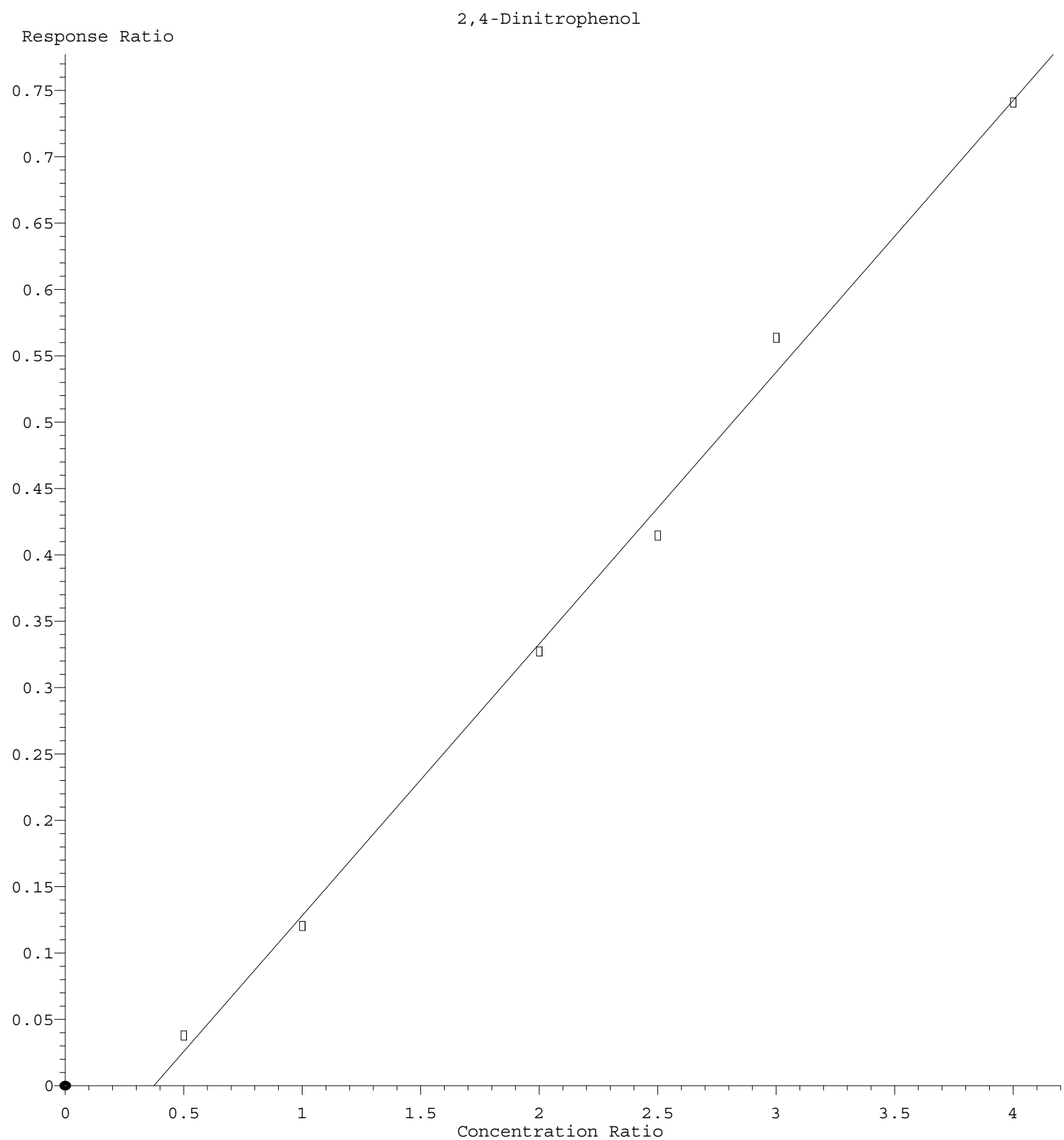
Method Path : Z:\svoasrv\HPCHEM1\BNA_G\Methods\
Method File : 8270-BG072823.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.307	1.349	1.386	1.367	1.288	1.345	1.271	1.331	3.19
88)		Benzo(b)fluora...	1.109	1.117	1.149	1.117	1.041	1.067	0.993	1.085	4.96
89)		Benzo(k)fluora...	1.133	1.139	1.148	1.103	1.023	1.075	1.007	1.090	5.21
90)	C	Benzo(a)pyrene	1.079	1.086	1.113	1.088	1.021	1.065	1.004	1.065	3.67
91)		Dibenzo(a,h)an...	1.077	1.127	1.148	1.129	1.059	1.114	1.048	1.100	3.54
92)		Benzo(g,h,i)pe...	1.089	1.122	1.151	1.128	1.060	1.113	1.059	1.103	3.18

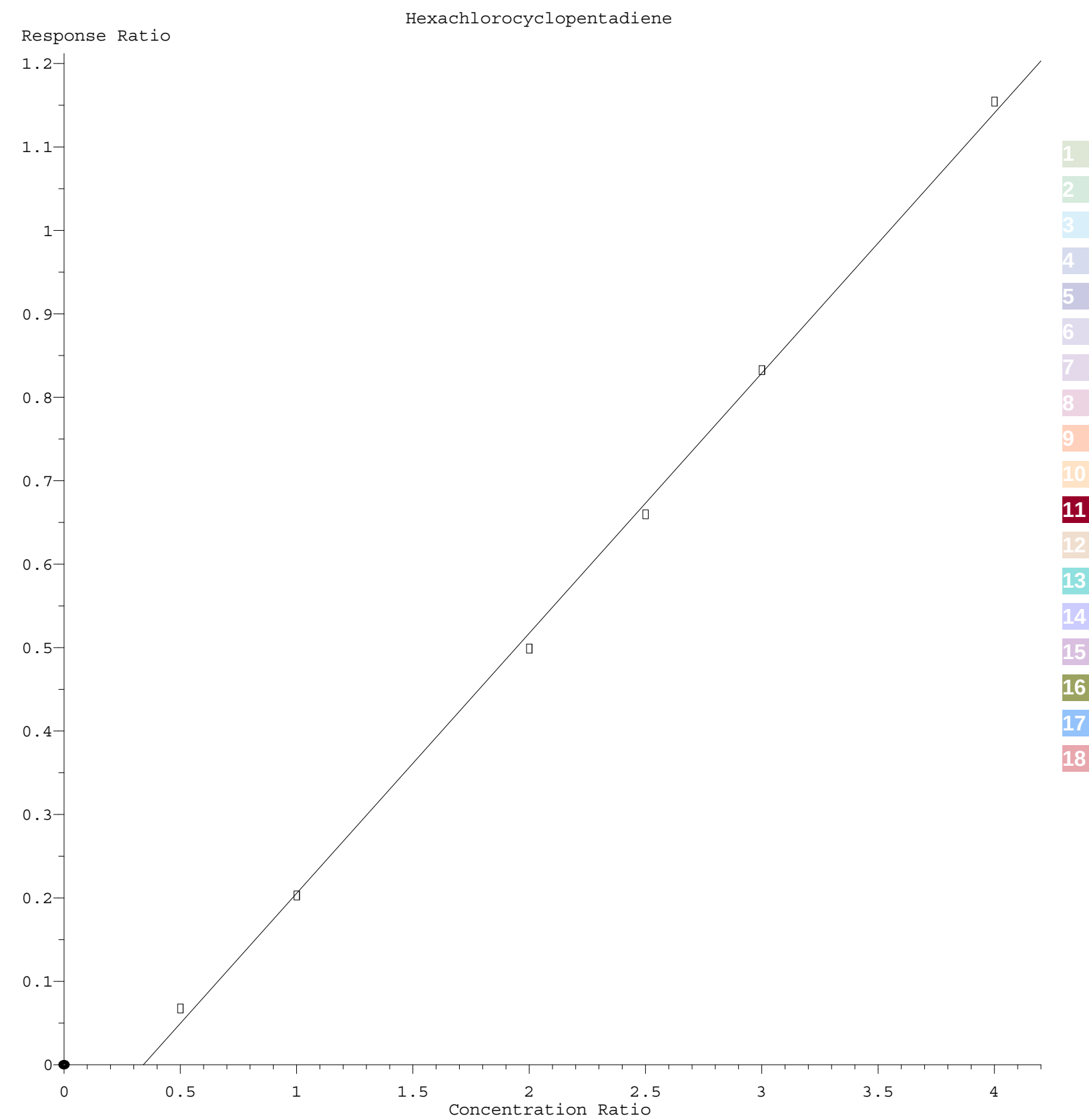
(#) = Out of Range



Response = 2.549e-001 * Amt - 4.238e-002
Coef of Det (r^2) = 0.994656 Curve Fit: Linear
Method: \\chemsrv\HPCHEM1\BNA G\Methods\8270-BG072823.M
Calibration Table Last Updated: Fri Jul 28 22:29:07 2023



Response = 2.050e-001 * Amt - 7.670e-002
Coef of Det (r^2) = 0.996189 Curve Fit: Linear
Method: C:\msdchem\1\DATA\srv\HPCHEM1\BNA G\Methods\8270-BG072823.M
Calibration Table Last Updated: Fri Jul 28 22:29:07 2023



Response = 3.117e-001 * Amt - 1.062e-001
Coef of Det (r^2) = 0.998713 Curve Fit: Linear
Method: \\chemsrv\HPCHEM1\BNA G\Methods\8270-BG072823.M
Calibration Table Last Updated: Fri Jul 28 22:29:07 2023

Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG072823\
Data File : BG058510.D
Acq On : 28 Jul 2023 9:21
Operator : MA/JU
Sample : SSTDICC2.5
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
SSTDICC2.5

Quant Time: Jul 28 16:04:59 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 28 16:03:55 2023
Response via : Initial Calibration

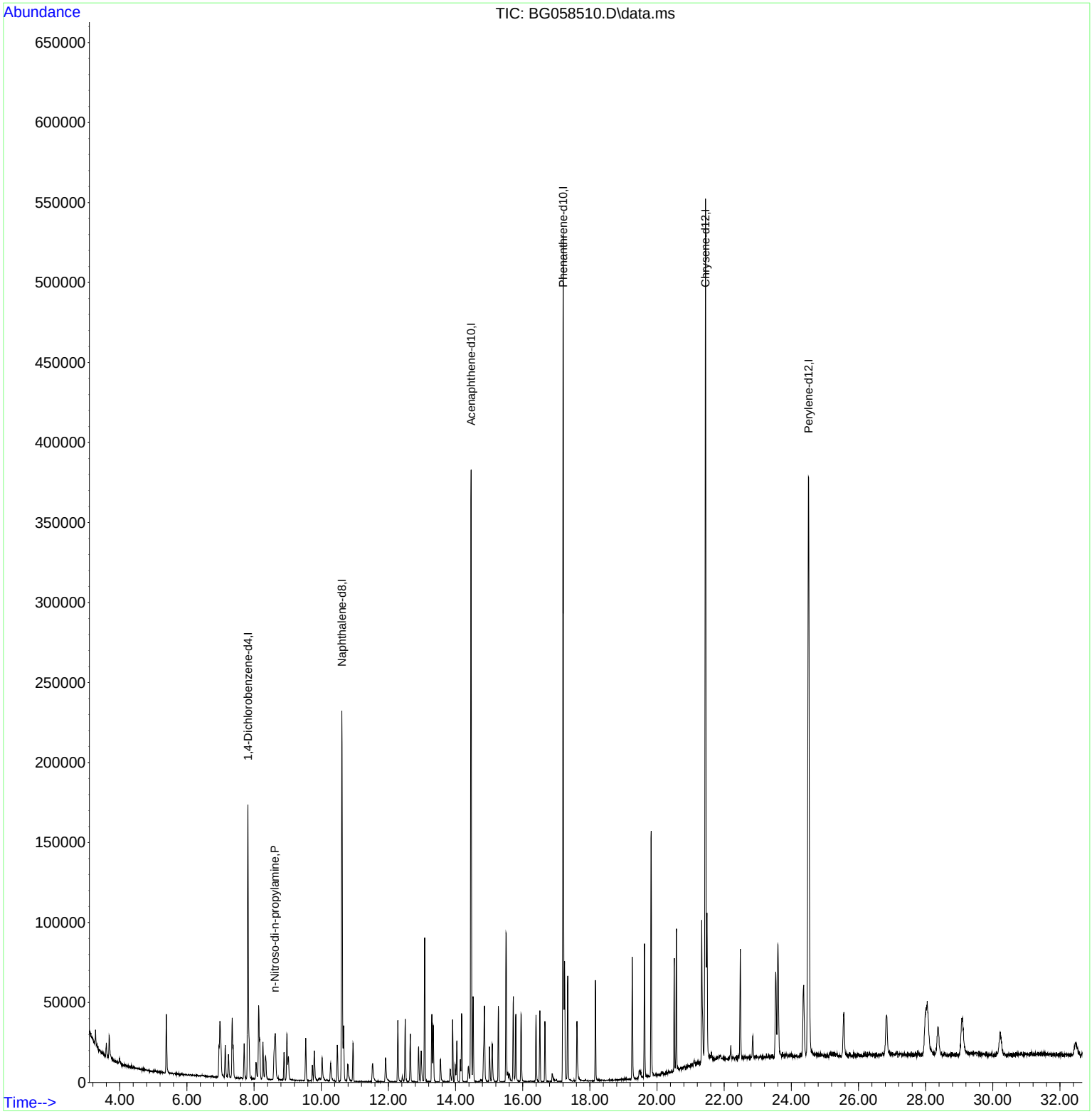
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.817	152	49483	20.000	ng	0.00
21) Naphthalene-d8	10.614	136	199755	20.000	ng	0.00
39) Acenaphthene-d10	14.462	164	139038	20.000	ng	0.00
64) Phenanthrene-d10	17.206	188	346576	20.000	ng	0.00
76) Chrysene-d12	21.442	240	315962	20.000	ng	0.00
86) Perylene-d12	24.515	264	392750	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0d	0.000	ng	
7) Phenol-d6	0.000	99	0d	0.000	ng	
23) Nitrobenzene-d5	0.000	82	0d	0.000	ng	
42) 2,4,6-Tribromophenol	0.000	330	0d	0.000	ng	
45) 2-Fluorobiphenyl	0.000	172	0d	0.000	ng	
79) Terphenyl-d14	0.000	244	0d	0.000	ng	
Target Compounds						Qvalue
19) n-Nitroso-di-n-propyla...	8.616	70	7652	2.630	ng	# 85

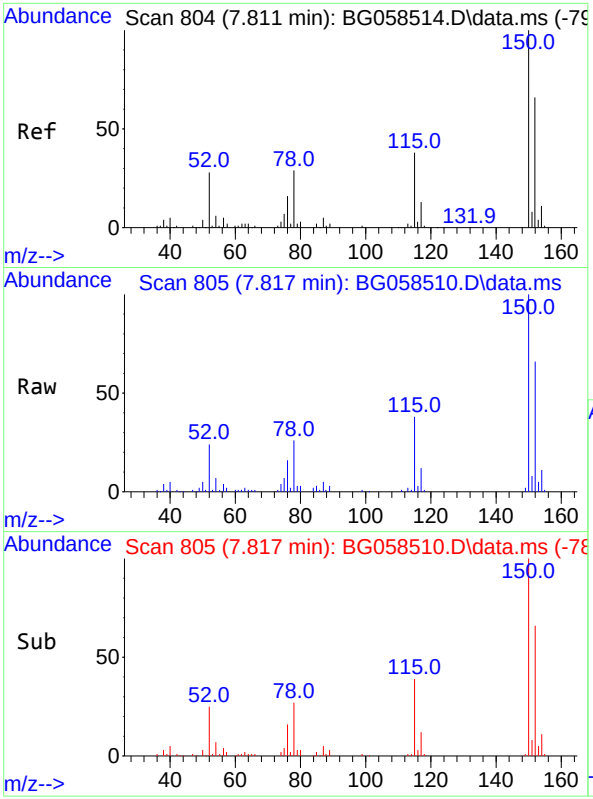
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG072823\
Data File : BG058510.D
Acq On : 28 Jul 2023 9:21
Operator : MA/JU
Sample : SSTDICC2.5
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
SSTDICC2.5

Quant Time: Jul 28 16:04:59 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 28 16:03:55 2023
Response via : Initial Calibration



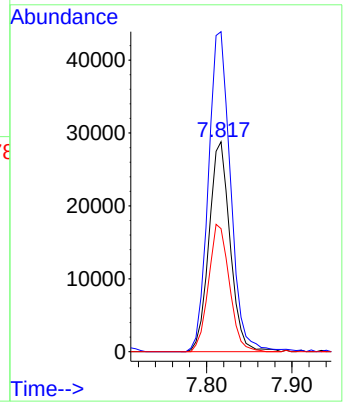


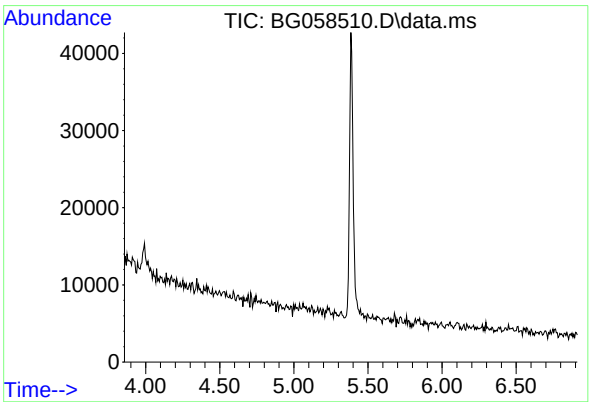
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.817 min Scan# 8
Delta R.T. 0.006 min
Lab File: BG058510.D
Acq: 28 Jul 2023 9:21

Instrument :
BNA_G
ClientSampleId :
SSTDICC2.5

Tgt Ion:152 Resp: 49483

Ion	Ratio	Lower	Upper
152	100		
150	152.4	120.5	180.7
115	58.6	45.9	68.9



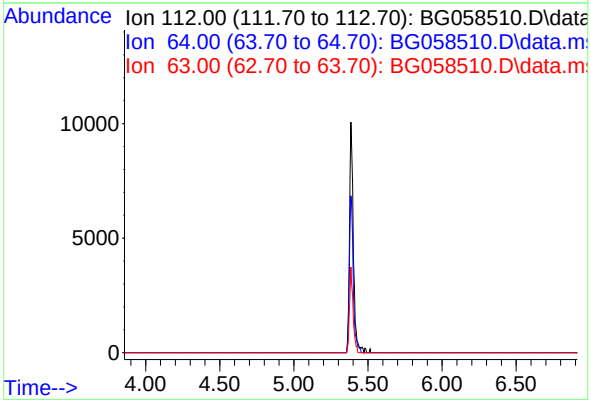


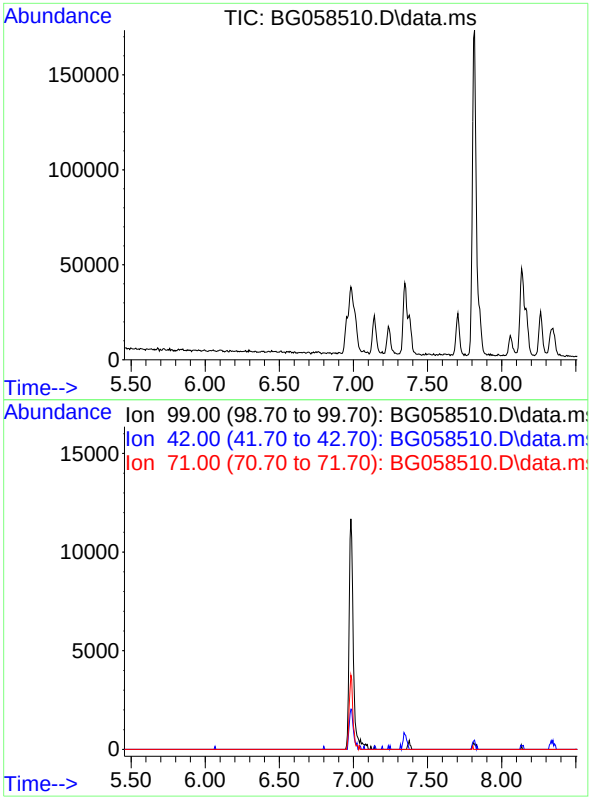
#5
2-Fluorophenol
Concen: 0.000 ng
Expected RT: 5.38 min

Lab File: BG058510.D
Acq: 28 Jul 2023 9:21

Tgt Ion: 112

Sig	Exp Ratio
112	100
64	69.1
63	35.4





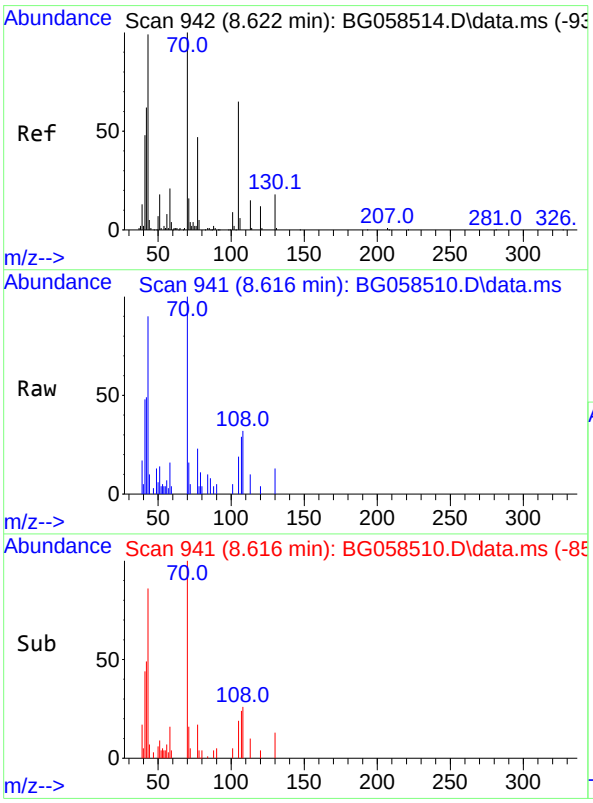
#7
Phenol-d6
Concen: 0.000 ng
Expected RT: 6.98 min

Lab File: BG058510.D
Acq: 28 Jul 2023 9:21

Instrument :
BNA_G
ClientSampleId :
SSTDICC2.5

Tgt Ion: 99

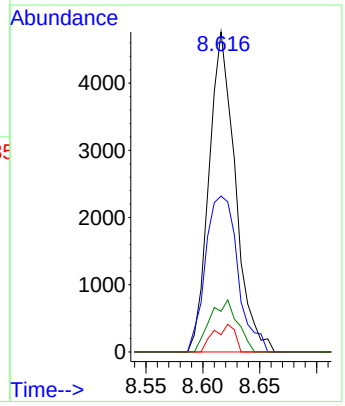
Sig	Exp Ratio
99	100
42	18.2
71	31.2

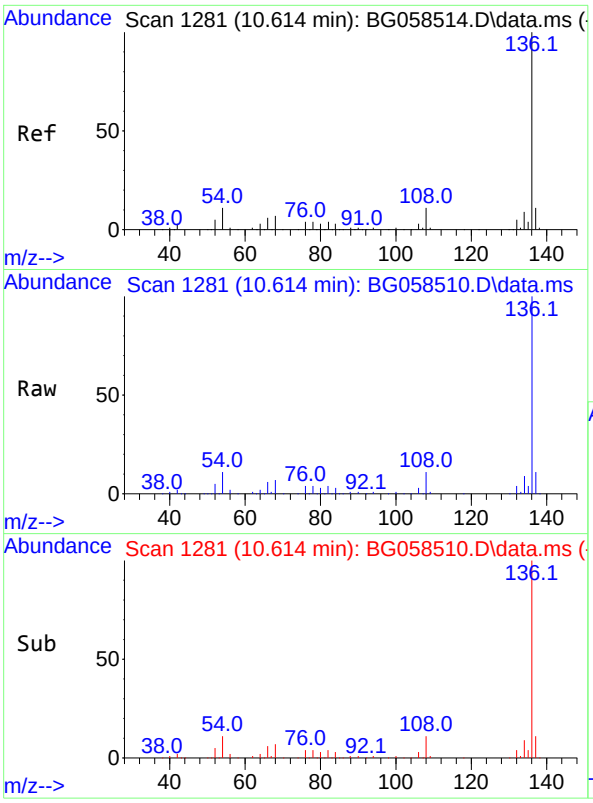


#19
n-Nitroso-di-n-propylamine
Concen: 2.630 ng
RT: 8.616 min Scan# 941
Delta R.T. -0.006 min
Lab File: BG058510.D
Acq: 28 Jul 2023 9:21

Tgt Ion: 70 Resp: 7652

Ion	Ratio	Lower	Upper
70	100		
42	48.7	49.7	74.5#
101	5.4	7.0	10.4#
130	12.7	14.3	21.5#



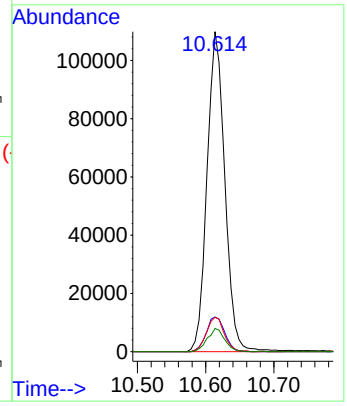


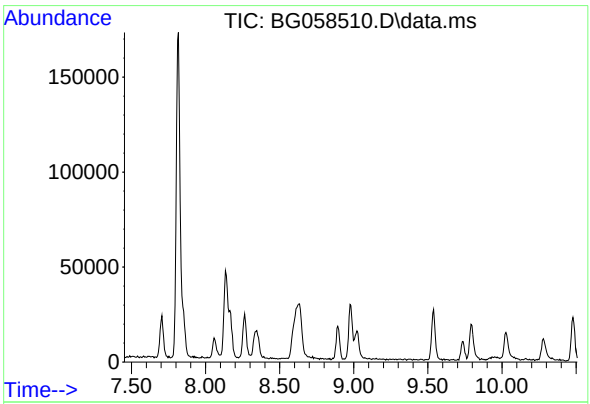
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.614 min Scan# 1
Delta R.T. -0.000 min
Lab File: BG058510.D
Acq: 28 Jul 2023 9:21

Instrument :
BNA_G
ClientSampleId :
SSTDICC2.5

Tgt Ion:136 Resp: 199755

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.6	13.0
54	10.8	8.9	13.3
68	7.3	5.6	8.4



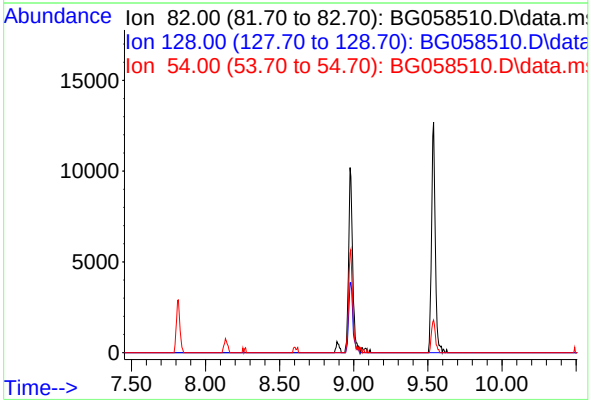


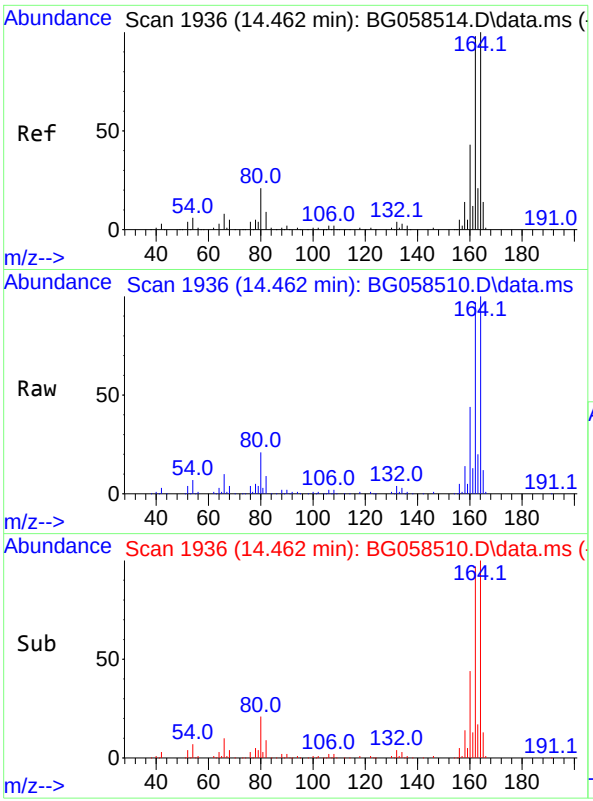
#23
Nitrobenzene-d5
Concen: 0.000 ng
Expected RT: 8.98 min

Lab File: BG058510.D
Acq: 28 Jul 2023 9:21

Tgt Ion: 82

Sig	Exp Ratio
82	100
128	40.2
54	57.5



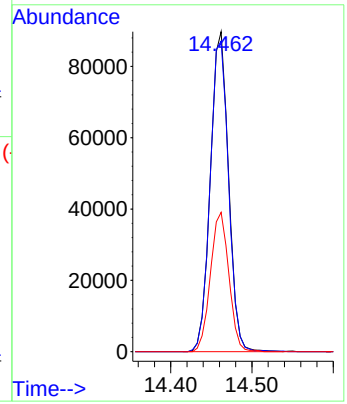


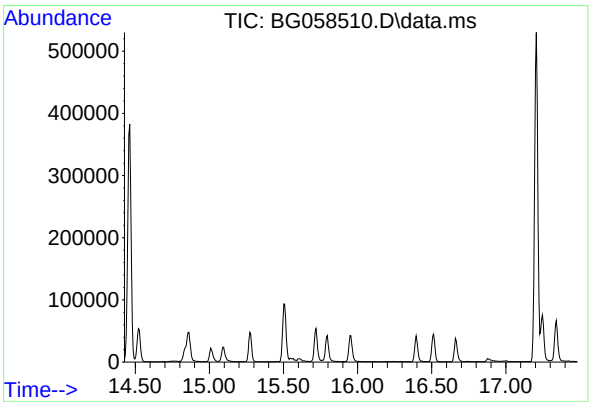
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.462 min Scan# 1
Delta R.T. -0.000 min
Lab File: BG058510.D
Acq: 28 Jul 2023 9:21

Instrument :
BNA_G
ClientSampleId :
SSTDICC2.5

Tgt Ion:164 Resp: 139038

Ion	Ratio	Lower	Upper
164	100		
162	97.0	78.3	117.5
160	43.5	34.1	51.1



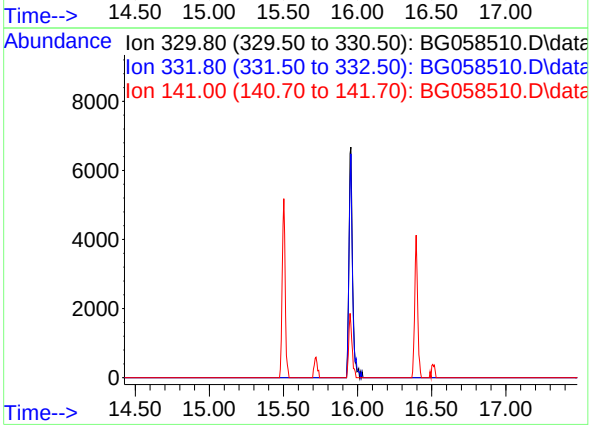


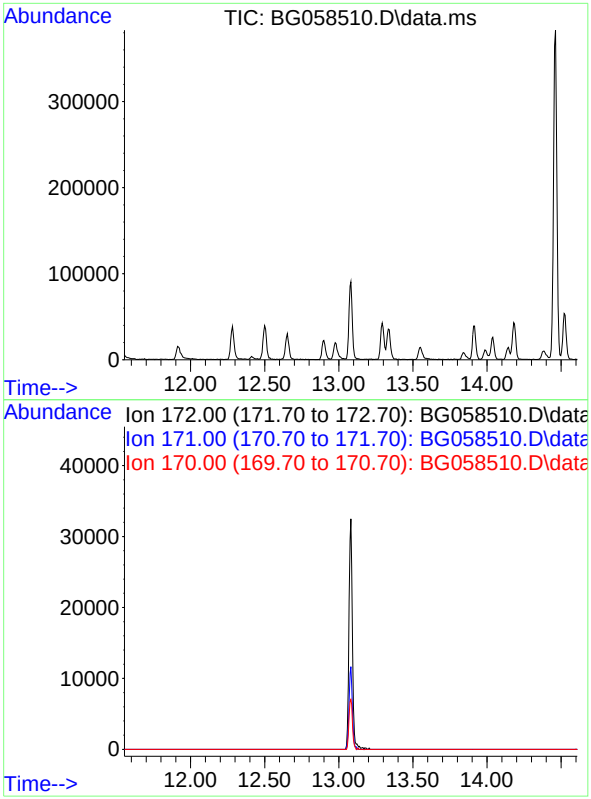
#42
2,4,6-Tribromophenol
Concen: 0.000 ng
Expected RT: 15.95 min

Lab File: BG058510.D
Acq: 28 Jul 2023 9:21

Tgt Ion: 330

Sig	Exp Ratio
330	100
332	96.9
141	25.9





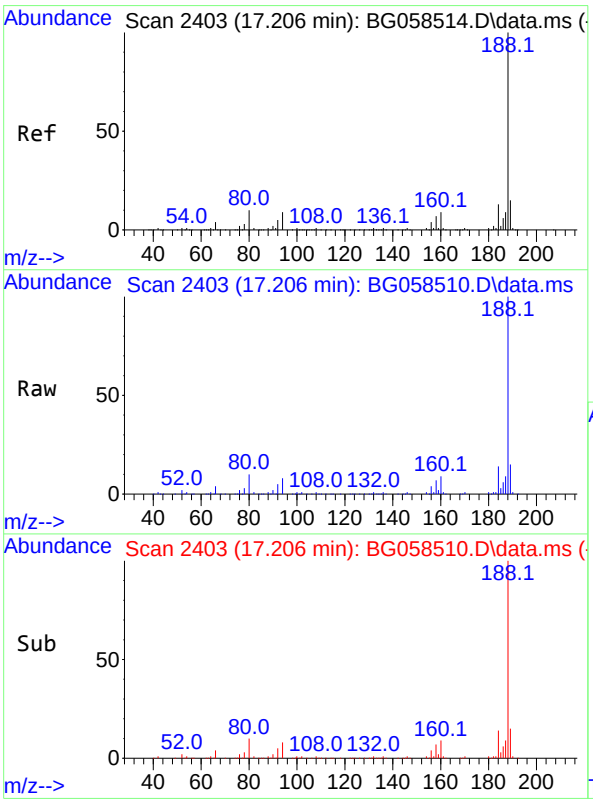
#45
2-Fluorobiphenyl
Concen: 0.000 ng
Expected RT: 13.08 min

Lab File: BG058510.D
Acq: 28 Jul 2023 9:21

Instrument :
BNA_G
ClientSampleId :
SSTDICC2.5

Tgt Ion: 172

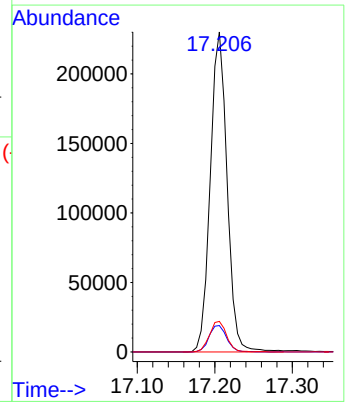
Sig	Exp Ratio
172	100
171	35.0
170	23.0

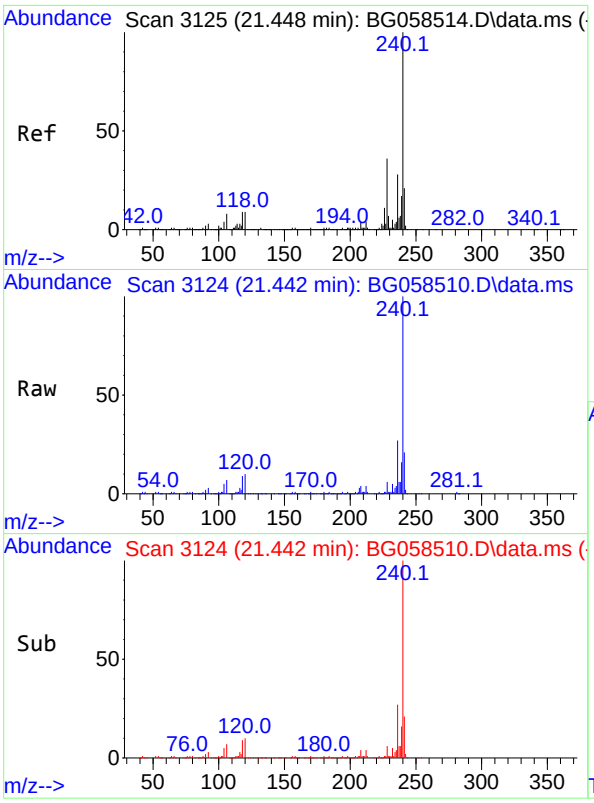


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.206 min Scan# 2403
Delta R.T. -0.000 min
Lab File: BG058510.D
Acq: 28 Jul 2023 9:21

Tgt Ion:188 Resp: 346576

Ion	Ratio	Lower	Upper
188	100		
94	8.3	7.0	10.6
80	9.5	8.1	12.1



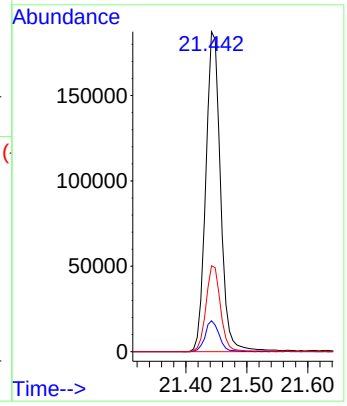


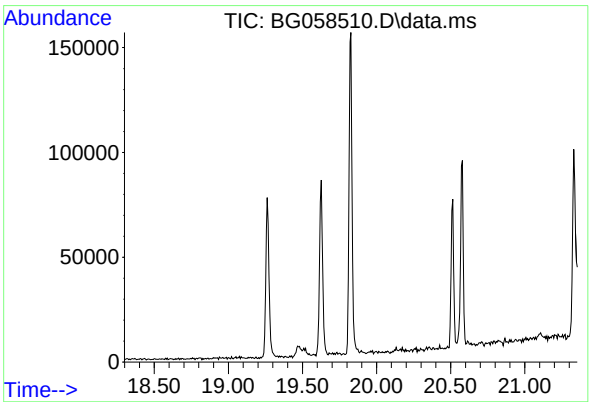
#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.442 min Scan# 3
Delta R.T. -0.006 min
Lab File: BG058510.D
Acq: 28 Jul 2023 9:21

Instrument :
BNA_G
ClientSampleId :
SSTDICC2.5

Tgt Ion:240 Resp: 315962

Ion	Ratio	Lower	Upper
240	100		
120	9.6	7.4	11.0
236	26.9	22.2	33.4



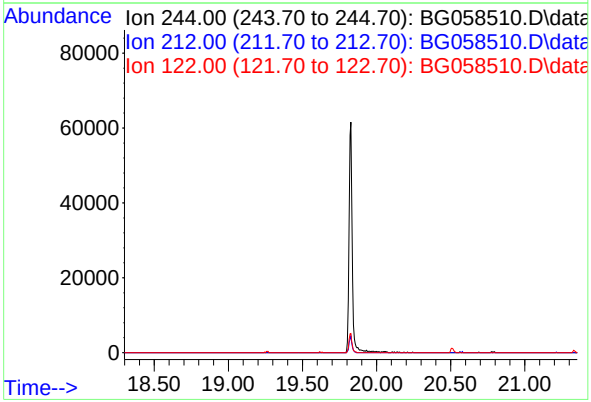


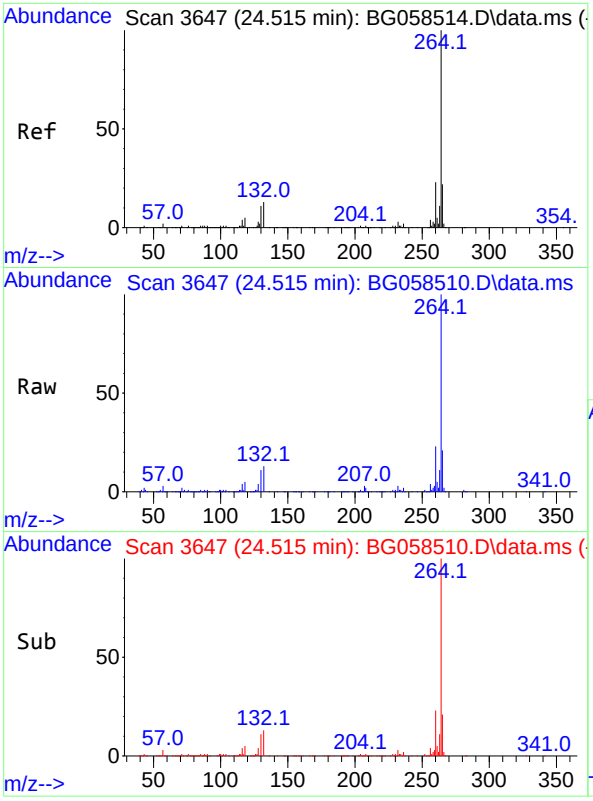
#79
Terphenyl-d14
Concen: 0.000 ng
Expected RT: 19.83 min

Lab File: BG058510.D
Acq: 28 Jul 2023 9:21

Tgt Ion: 244

Sig	Exp Ratio
244	100
212	7.4
122	8.5



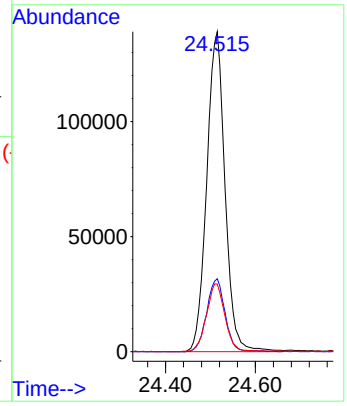


#86
Perylene-d12
Concen: 20.000 ng
RT: 24.515 min Scan# 3
Delta R.T. -0.000 min
Lab File: BG058510.D
Acq: 28 Jul 2023 9:21

Instrument :
BNA_G
ClientSampleId :
SSTDICC2.5

Tgt Ion:264 Resp: 392750

Ion	Ratio	Lower	Upper
264	100		
260	22.8	18.4	27.6
265	21.2	17.9	26.9



Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG072823\
Data File : BG058511.D
Acq On : 28 Jul 2023 10:02
Operator : MA/JU
Sample : SSTDICC005
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 28 16:58:14 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 28 16:53:40 2023
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.818	152	55156	20.000	ng		0.00
21) Naphthalene-d8	10.614	136	233085	20.000	ng		0.00
39) Acenaphthene-d10	14.463	164	163856	20.000	ng		0.00
64) Phenanthrene-d10	17.207	188	396609	20.000	ng		0.00
76) Chrysene-d12	21.443	240	343413	20.000	ng		0.00
86) Perylene-d12	24.510	264	428898	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.385	112	38445	10.654	ng		0.00
7) Phenol-d6	6.983	99	53038	10.563	ng		0.00
23) Nitrobenzene-d5	8.975	82	46810	9.866	ng		0.00
42) 2,4,6-Tribromophenol	15.949	330	26722	9.950	ng		0.00
45) 2-Fluorobiphenyl	13.076	172	120367	11.009	ng		0.00
79) Terphenyl-d14	19.821	244	202262	11.076	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.276	88	9268	5.300	ng		97
3) Pyridine	3.675	79	24822	5.207	ng	#	92
4) n-Nitrosodimethylamine	3.593	42	10730	5.312	ng		94
6) Aniline	7.142	93	31505	5.096	ng		100
8) 2-Chlorophenol	7.377	128	18571	5.246	ng		98
10) Phenol	7.007	94	25338	5.166	ng		98
11) bis(2-Chloroethyl)ether	7.236	93	21177	5.476	ng		98
12) 1,3-Dichlorobenzene	7.700	146	20179	5.338	ng		99
13) 1,4-Dichlorobenzene	7.847	146	20726	5.460	ng		99
14) 1,2-Dichlorobenzene	8.170	146	19473	5.366	ng		96
15) Benzyl Alcohol	8.059	79	12885	4.046	ng		96
16) 2,2'-oxybis(1-Chloropr...	8.346	45	33139	5.276	ng		91
17) 2-Methylphenol	8.258	107	18602	5.187	ng		96
18) Hexachloroethane	8.893	117	7498	5.435	ng		90
19) n-Nitroso-di-n-propyla...	8.617	70	16823	5.187	ng		98
20) 3+4-Methylphenols	8.593	107	23895	4.926	ng		95
22) Acetophenone	8.634	105	31482	5.044	ng		95
24) Nitrobenzene	9.016	77	23005	4.769	ng		97
25) Isophorone	9.533	82	49366	5.036	ng		99
26) 2-Nitrophenol	9.733	139	9524	4.536	ng		97
27) 2,4-Dimethylphenol	9.792	122	16825	4.831	ng		96
28) bis(2-Chloroethoxy)met...	10.027	93	25242	4.731	ng		96
29) 2,4-Dichlorophenol	10.274	162	17116	4.733	ng		95
30) 1,2,4-Trichlorobenzene	10.479	180	21585	5.176	ng		99
31) Naphthalene	10.667	128	64349	5.238	ng		97
33) 4-Chloroaniline	10.785	127	23032	4.437	ng		95
34) Hexachlorobutadiene	10.943	225	13850	5.157	ng		95
35) Caprolactam	11.525	113	6405	4.796	ng		95
36) 4-Chloro-3-methylphenol	11.913	107	21470	4.799	ng		95
37) 2-Methylnaphthalene	12.277	142	46225	5.260	ng		97
38) 1-Methylnaphthalene	12.500	142	44611	5.341	ng		96
40) 1,2,4,5-Tetrachloroben...	12.647	216	25980	5.164	ng		97
43) 2,4,6-Trichlorophenol	12.894	196	16838	4.866	ng		95
44) 2,4,5-Trichlorophenol	12.970	196	20739	5.089	ng		95
46) 1,1'-Biphenyl	13.294	154	58249	5.176	ng		99
47) 2-Chloronaphthalene	13.335	162	45164	5.148	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG072823\
Data File : BG058511.D
Acq On : 28 Jul 2023 10:02
Operator : MA/JU
Sample : SSTDICC005
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 28 16:58:14 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 28 16:53:40 2023
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
48) 2-Nitroaniline	13.546	65	14929	4.458	ng		95
49) Acenaphthylene	14.181	152	77433	5.271	ng		100
50) Dimethylphthalate	13.911	163	64918	5.275	ng		99
51) 2,6-Dinitrotoluene	14.040	165	13150	4.870	ng		97
52) Acenaphthene	14.522	154	44916	5.292	ng		96
53) 3-Nitroaniline	14.375	138	11510m	4.261	ng		
55) Dibenzofuran	14.856	168	78298	5.368	ng		99
57) 2,4-Dinitrotoluene	14.833	165	16997	4.541	ng	#	92
58) Fluorene	15.509	166	63955	5.520	ng		96
59) 2,3,4,6-Tetrachlorophenol	15.091	232	17643	5.073	ng	#	96
60) Diethylphthalate	15.274	149	66618	5.314	ng		99
61) 4-Chlorophenyl-phenyle...	15.503	204	34801	5.388	ng		96
62) 4-Nitroaniline	15.538	138	9967m	3.926	ng		
63) Azobenzene	15.791	77	65298	5.288	ng		97
66) n-Nitrosodiphenylamine	15.714	169	52845	5.119	ng		97
67) 4-Bromophenyl-phenylether	16.396	248	22798	5.068	ng		98
68) Hexachlorobenzene	16.513	284	24904	5.225	ng		99
69) Atrazine	16.666	200	18960	5.441	ng		97
71) Phenanthrene	17.248	178	101519	5.397	ng		98
72) Anthracene	17.342	178	103177	5.346	ng		95
73) Carbazole	17.612	167	83919	4.931	ng		99
74) Di-n-butylphthalate	18.164	149	107053	5.022	ng		98
75) Fluoranthene	19.263	202	119152	5.274	ng		97
77) Benzidine	19.463	184	23958	4.601	ng		98
78) Pyrene	19.627	202	123492	5.284	ng		96
80) Butylbenzylphthalate	20.515	149	47556	4.954	ng		96
81) Benzo(a)anthracene	21.425	228	122787	5.195	ng		98
82) 3,3'-Dichlorobenzidine	21.355	252	37782	4.728	ng		99
83) Chrysene	21.490	228	116841	5.156	ng		97
84) Bis(2-ethylhexyl)phtha...	21.331	149	71594	5.103	ng		99
85) Di-n-octyl phthalate	22.483	149	124461	5.046	ng		100
87) Indeno(1,2,3-cd)pyrene	27.988	276	140191	4.913	ng	#	88
88) Benzo(b)fluoranthene	23.535	252	118871	5.110	ng		99
89) Benzo(k)fluoranthene	23.599	252	121536	5.201	ng		99
90) Benzo(a)pyrene	24.369	252	115746	5.067	ng		98
91) Dibenzo(a,h)anthracene	28.047	278	115452	4.893	ng		99
92) Benzo(g,h,i)perylene	29.087	276	116805	4.937	ng		98

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

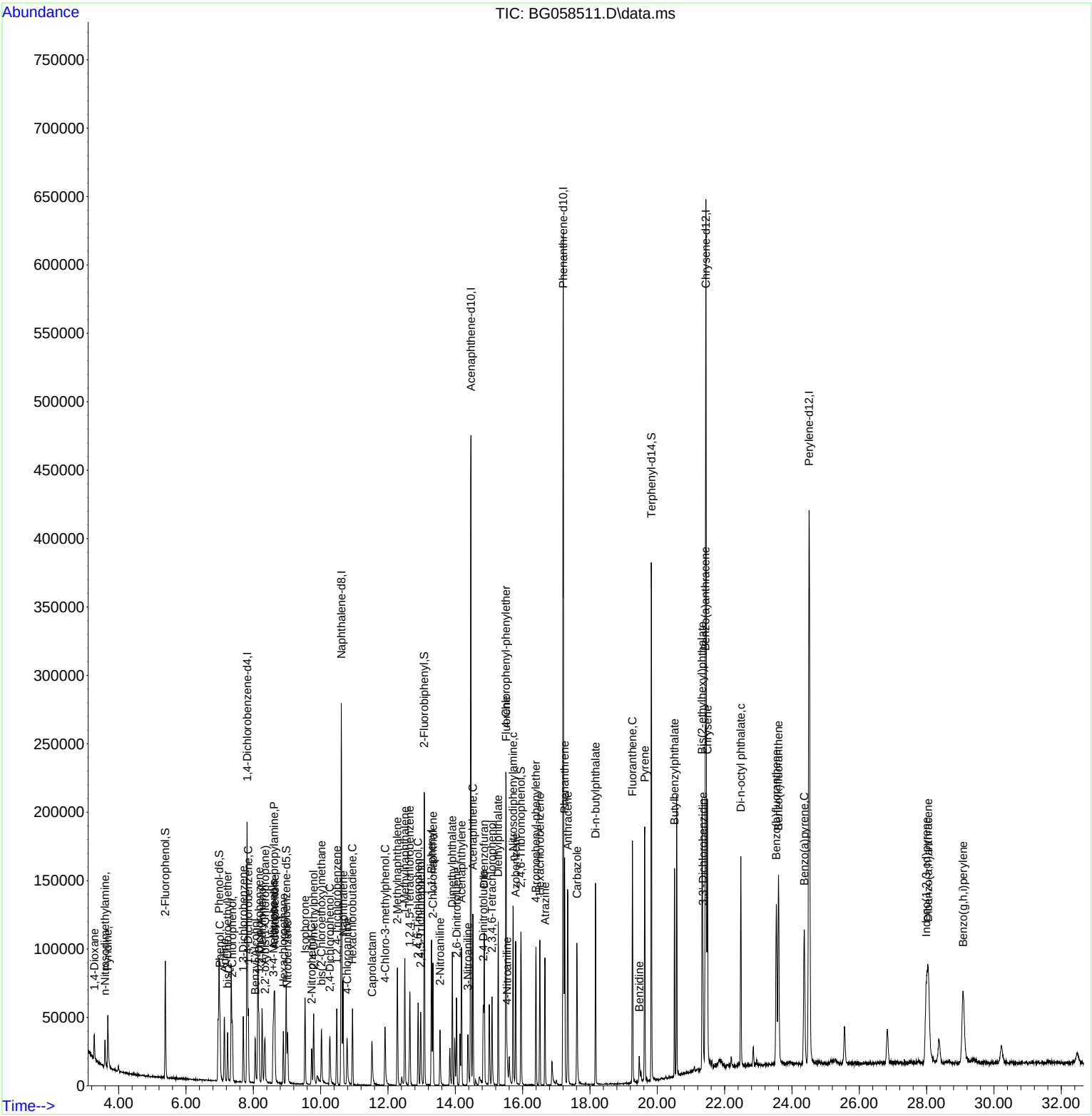
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG072823\
Data File : BG058511.D
Acq On : 28 Jul 2023 10:02
Operator : MA/JU
Sample : SSTDICC005
Misc :
ALS Vial : 3 Sample Multiplier: 1

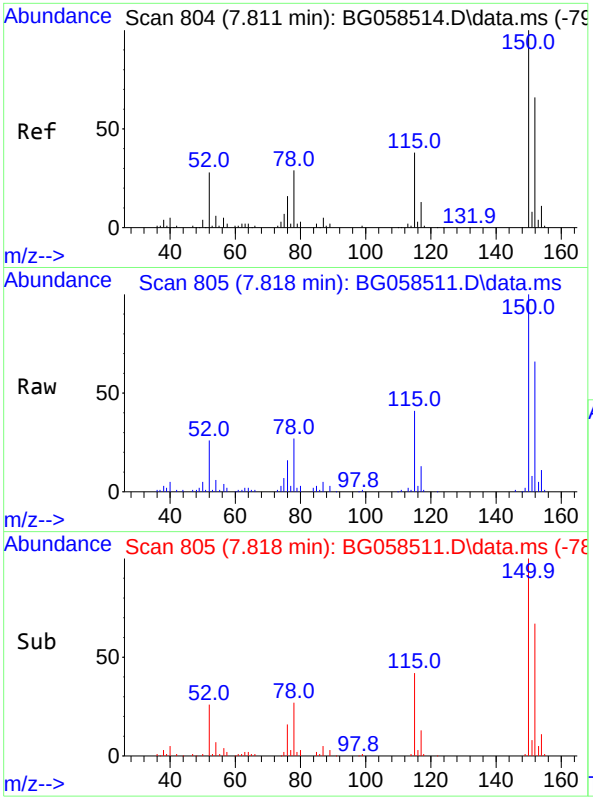
Quant Time: Jul 28 16:58:14 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 28 16:53:40 2023
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

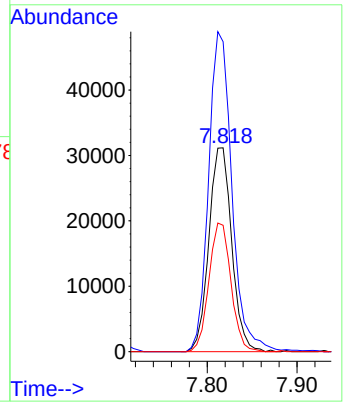




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.818 min Scan# 8(
Delta R.T. 0.007 min
Lab File: BG058511.D
Acq: 28 Jul 2023 10:02

Tgt Ion:152 Resp: 5515(

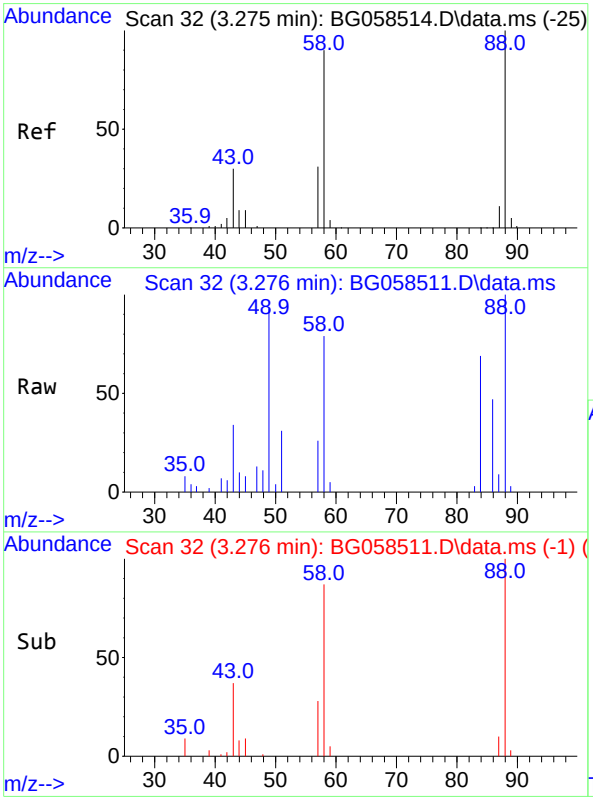
Ion	Ratio	Lower	Upper
152	100		
150	152.0	120.5	180.7
115	62.0	45.9	68.9



Instrument :
BNA_G
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

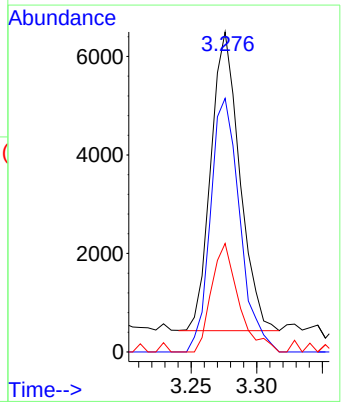
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

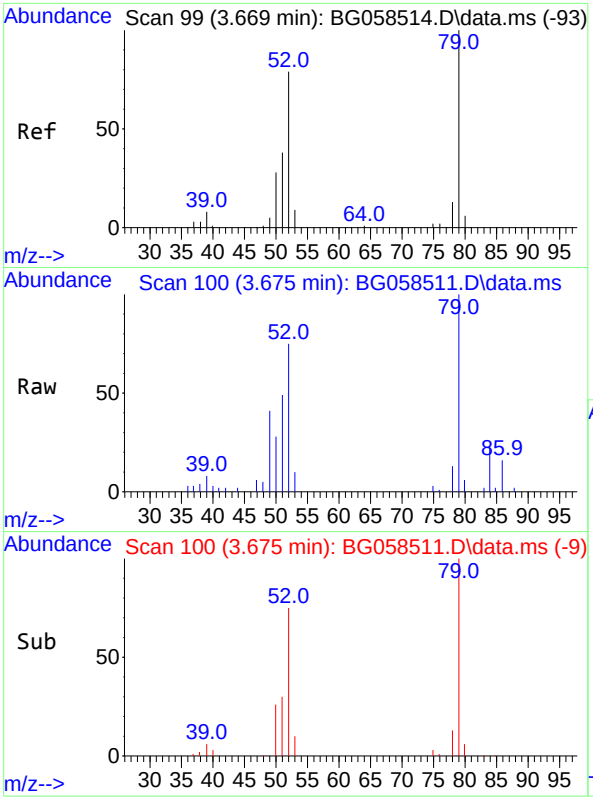


#2
1,4-Dioxane
Concen: 5.300 ng
RT: 3.276 min Scan# 32
Delta R.T. 0.001 min
Lab File: BG058511.D
Acq: 28 Jul 2023 10:02

Tgt Ion: 88 Resp: 9268

Ion	Ratio	Lower	Upper
88	100		
58	86.3	68.9	103.3
43	34.3	22.9	34.3

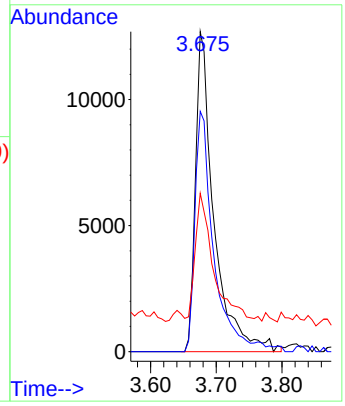




#3
Pyridine
Concen: 5.207 ng
RT: 3.675 min Scan# 1
Delta R.T. 0.006 min
Lab File: BG058511.D
Acq: 28 Jul 2023 10:02

Tgt Ion: 79 Resp: 2482

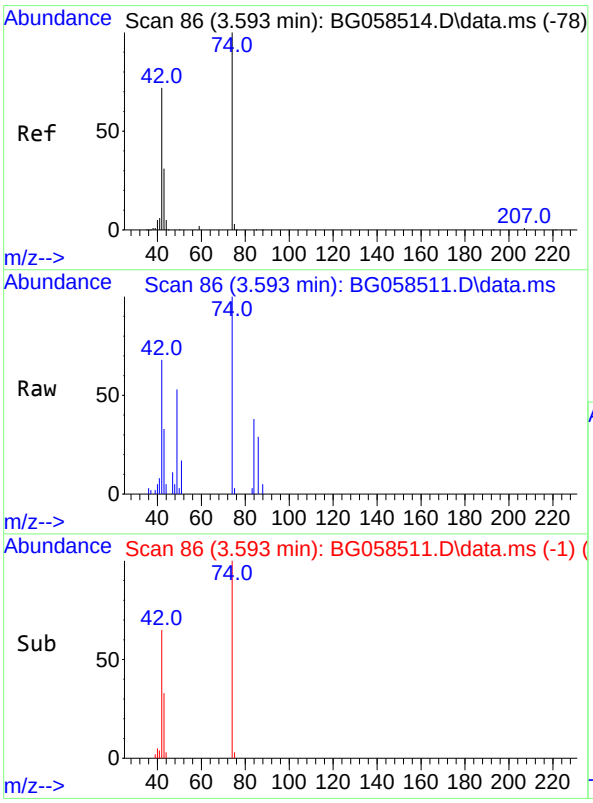
Ion	Ratio	Lower	Upper
79	100		
52	75.1	63.2	94.8
51	49.5	31.9	47.9



Instrument :
BNA_G
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

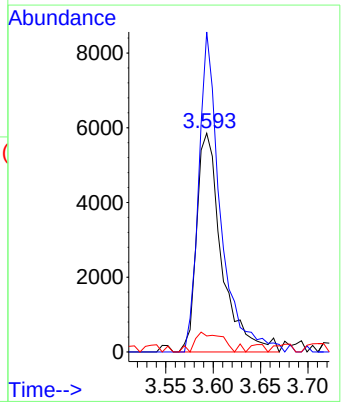
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

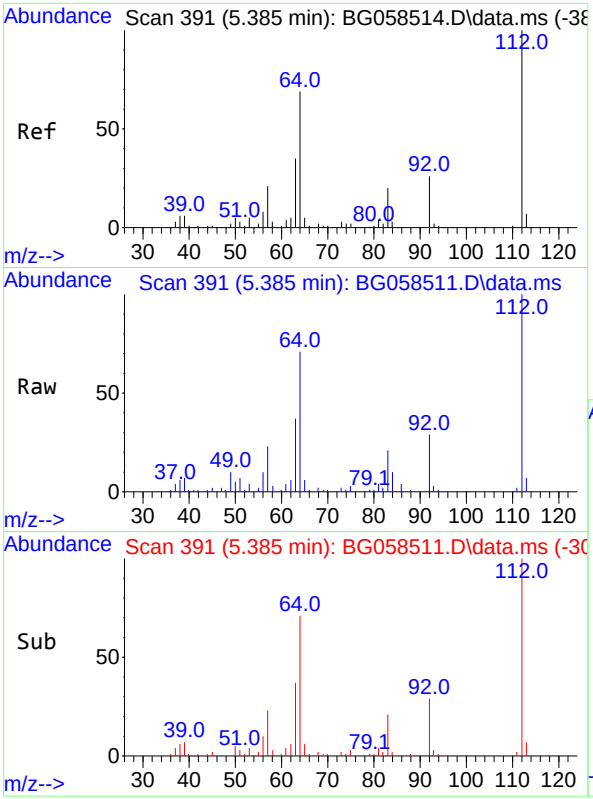


#4
n-Nitrosodimethylamine
Concen: 5.312 ng
RT: 3.593 min Scan# 86
Delta R.T. 0.001 min
Lab File: BG058511.D
Acq: 28 Jul 2023 10:02

Tgt Ion: 42 Resp: 10730

Ion	Ratio	Lower	Upper
42	100		
74	146.4	111.5	167.3
44	7.3	5.4	8.2

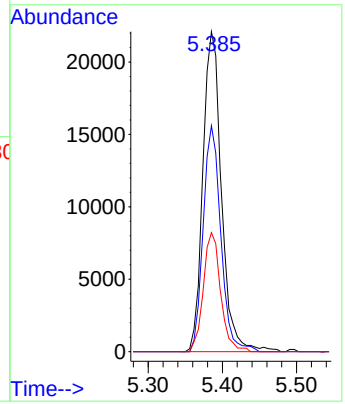




#5
2-Fluorophenol
Concen: 10.654 ng
RT: 5.385 min Scan# 3
Delta R.T. 0.001 min
Lab File: BG058511.D
Acq: 28 Jul 2023 10:02

Tgt Ion:112 Resp: 3844

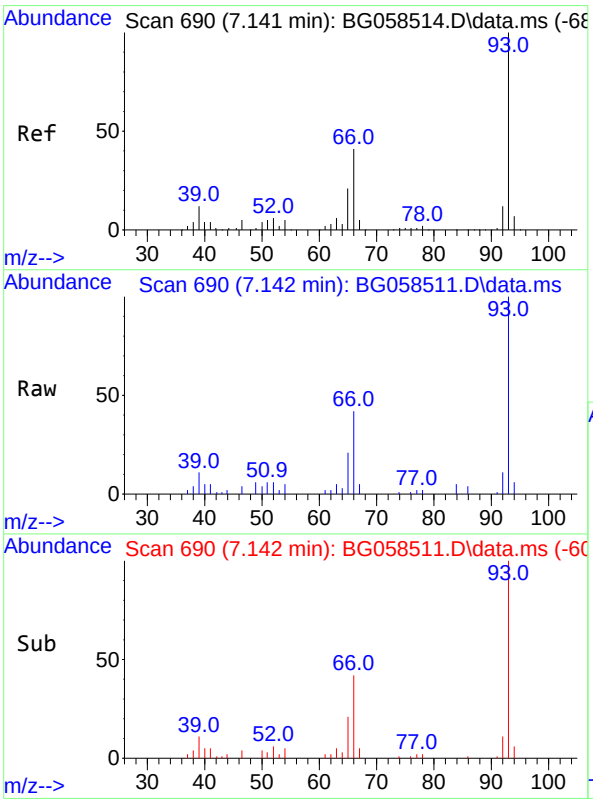
Ion	Ratio	Lower	Upper
112	100		
64	70.6	55.3	82.9
63	37.2	28.3	42.5



Instrument :
BNA_G
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

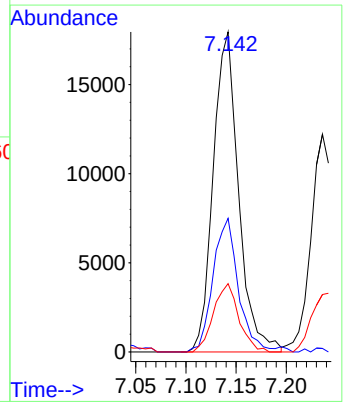
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

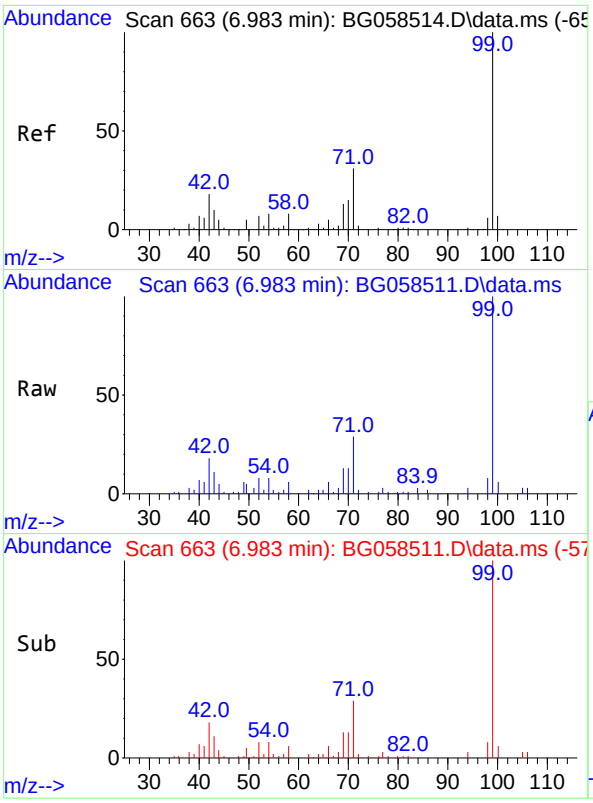


#6
Aniline
Concen: 5.096 ng
RT: 7.142 min Scan# 690
Delta R.T. 0.001 min
Lab File: BG058511.D
Acq: 28 Jul 2023 10:02

Tgt Ion: 93 Resp: 31505

Ion	Ratio	Lower	Upper
93	100		
66	41.7	33.1	49.7
65	21.3	17.0	25.4

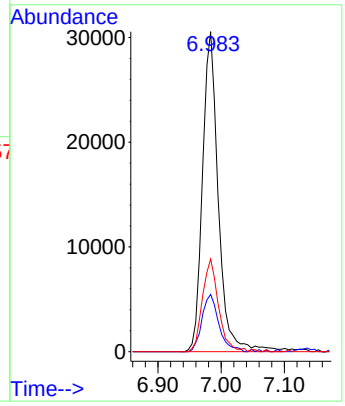




#7
Phenol-d6
Concen: 10.563 ng
RT: 6.983 min Scan# 6
Delta R.T. 0.001 min
Lab File: BG058511.D
Acq: 28 Jul 2023 10:02

Tgt Ion: 99 Resp: 5303

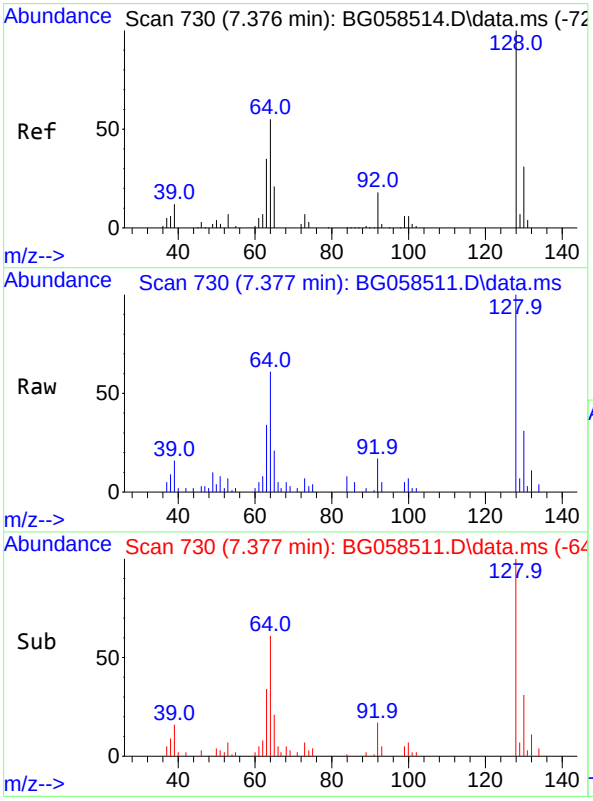
Ion	Ratio	Lower	Upper
99	100		
42	17.9	14.6	21.8
71	28.9	25.0	37.4



Instrument :
BNA_G
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

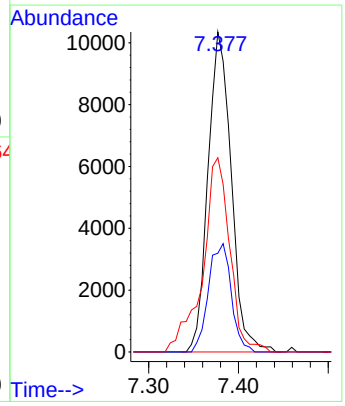
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

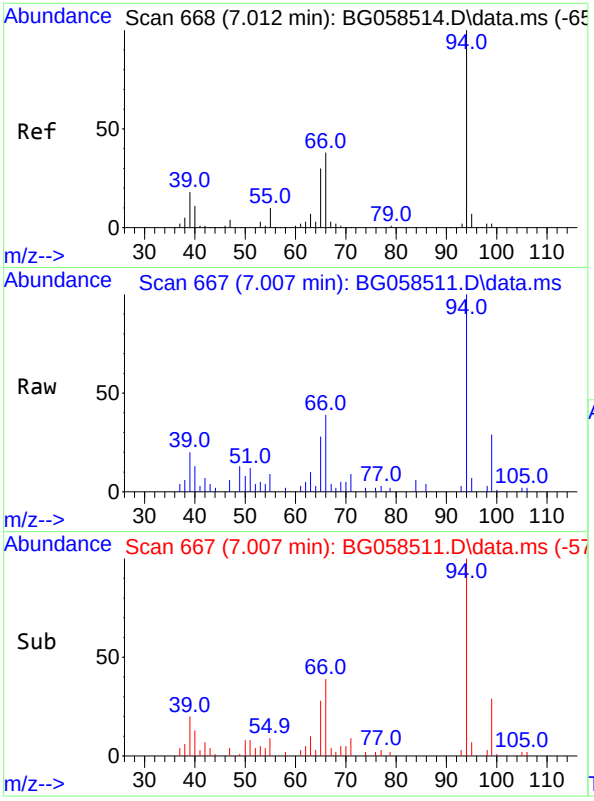


#8
2-Chlorophenol
Concen: 5.246 ng
RT: 7.377 min Scan# 730
Delta R.T. 0.001 min
Lab File: BG058511.D
Acq: 28 Jul 2023 10:02

Tgt Ion:128 Resp: 18571

Ion	Ratio	Lower	Upper
128	100		
130	30.8	10.9	50.9
64	60.7	39.0	79.0

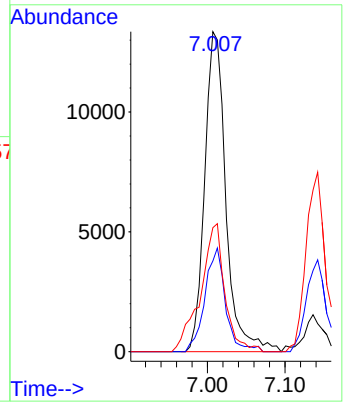




#10
Phenol
Concen: 5.166 ng
RT: 7.007 min Scan# 6
Delta R.T. -0.005 min
Lab File: BG058511.D
Acq: 28 Jul 2023 10:02

Tgt Ion: 94 Resp: 2533

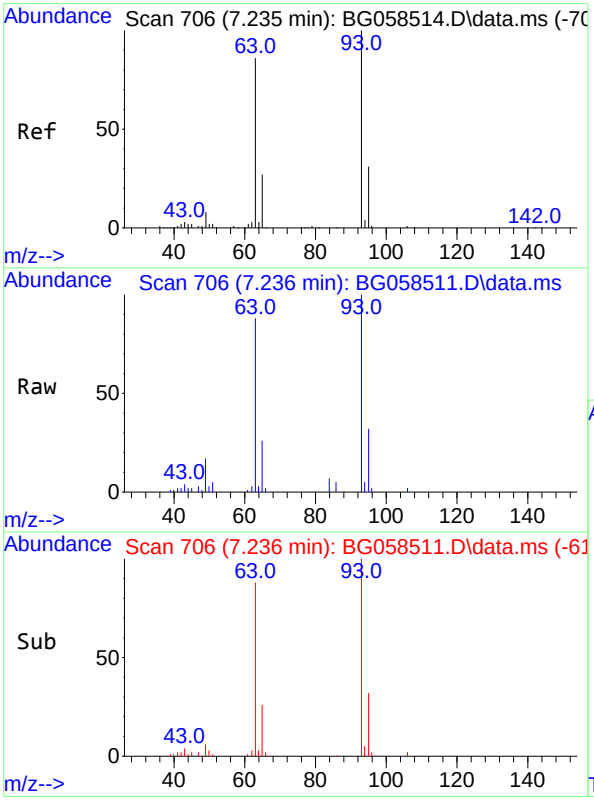
Ion	Ratio	Lower	Upper
94	100		
65	28.4	10.4	50.4
66	38.8	18.7	58.7



Instrument :
BNA_G
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

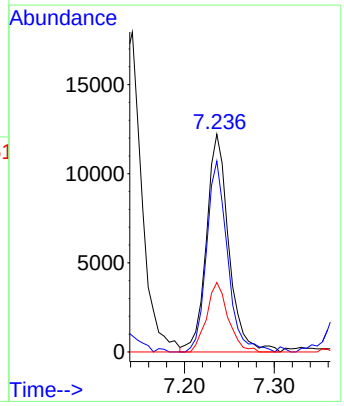
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

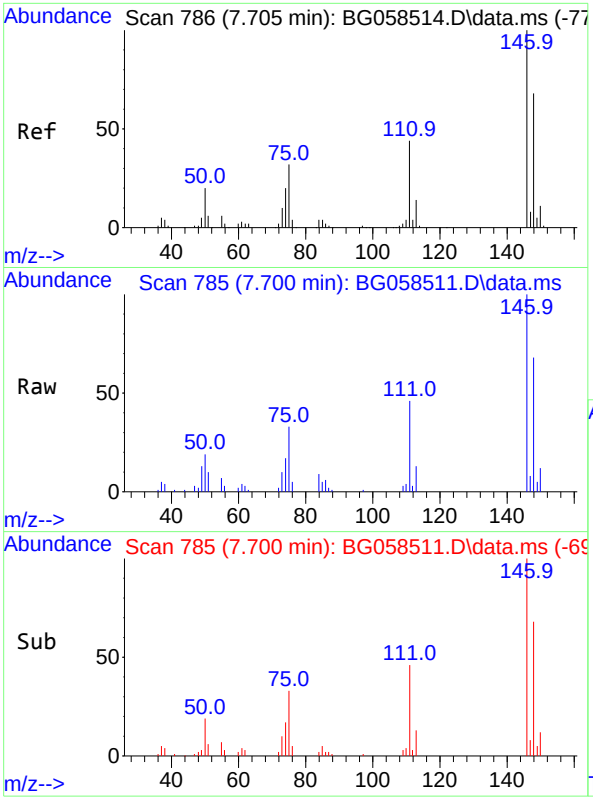


#11
bis(2-Chloroethyl)ether
Concen: 5.476 ng
RT: 7.236 min Scan# 706
Delta R.T. 0.001 min
Lab File: BG058511.D
Acq: 28 Jul 2023 10:02

Tgt Ion: 93 Resp: 21177

Ion	Ratio	Lower	Upper
93	100		
63	87.6	65.5	105.5
95	31.9	11.2	51.2

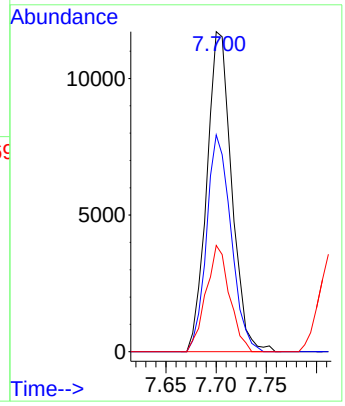




#12
1,3-Dichlorobenzene
Concen: 5.338 ng
RT: 7.700 min Scan# 7
Delta R.T. -0.005 min
Lab File: BG058511.D
Acq: 28 Jul 2023 10:02

Tgt Ion:146 Resp: 2017

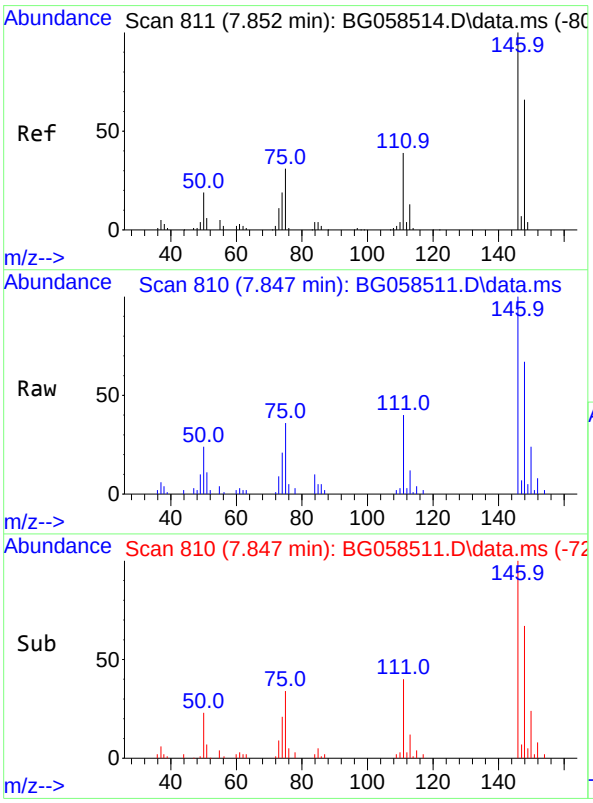
Ion	Ratio	Lower	Upper
146	100		
148	67.7	54.7	82.1
75	33.2	25.8	38.8



Instrument :
BNA_G
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

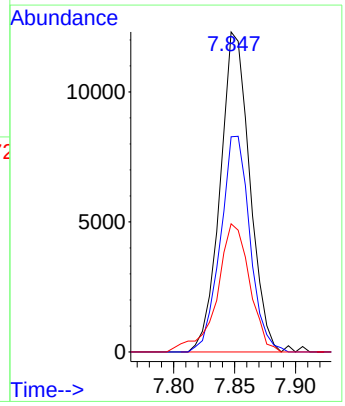
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

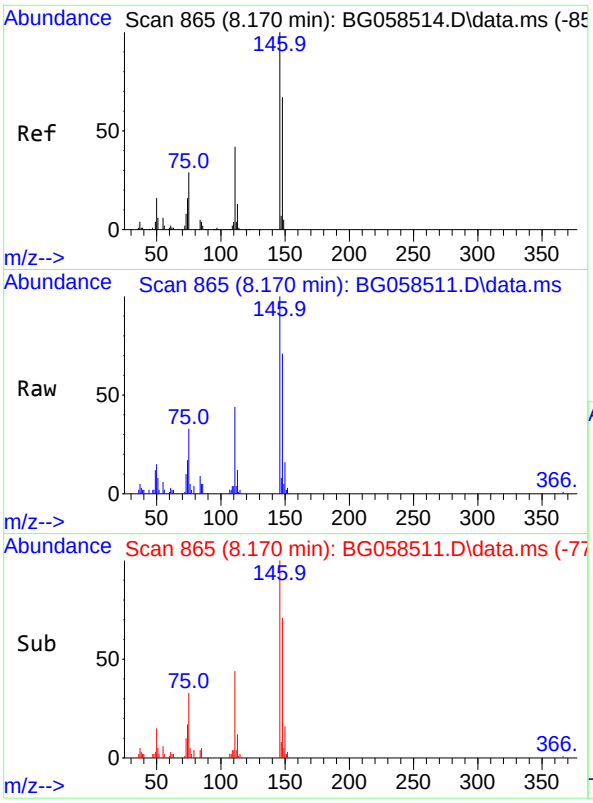


#13
1,4-Dichlorobenzene
Concen: 5.460 ng
RT: 7.847 min Scan# 810
Delta R.T. -0.005 min
Lab File: BG058511.D
Acq: 28 Jul 2023 10:02

Tgt Ion:146 Resp: 20726

Ion	Ratio	Lower	Upper
146	100		
148	67.3	52.8	79.2
111	40.0	31.7	47.5

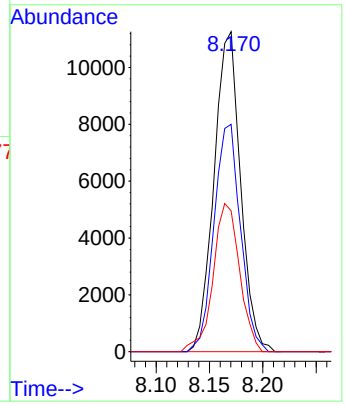




#14
1,2-Dichlorobenzene
Concen: 5.366 ng
RT: 8.170 min Scan# 8
Delta R.T. 0.001 min
Lab File: BG058511.D
Acq: 28 Jul 2023 10:02

Tgt Ion:146 Resp: 1947

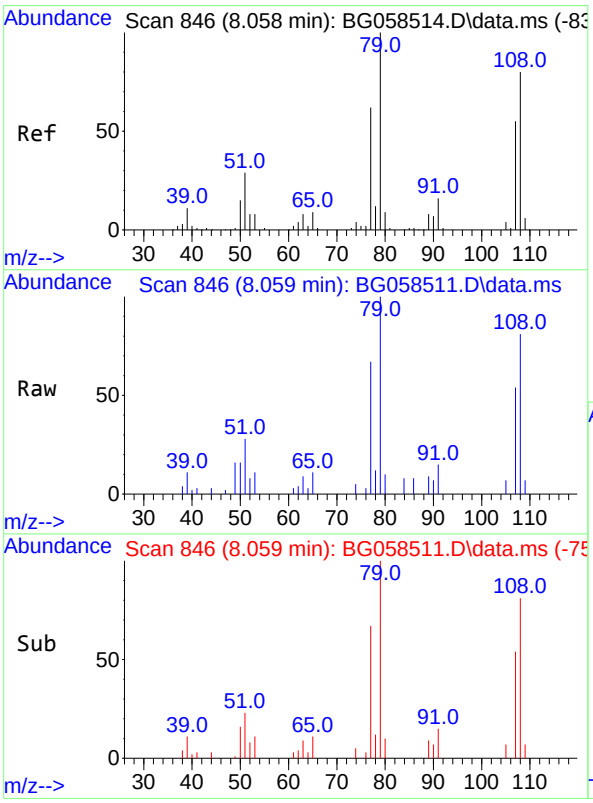
Ion	Ratio	Lower	Upper
146	100		
148	71.0	53.4	80.2
111	44.0	34.2	51.2



Instrument :
BNA_G
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

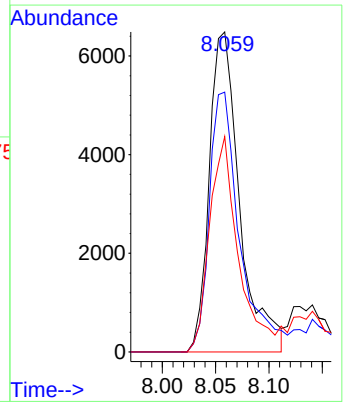
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

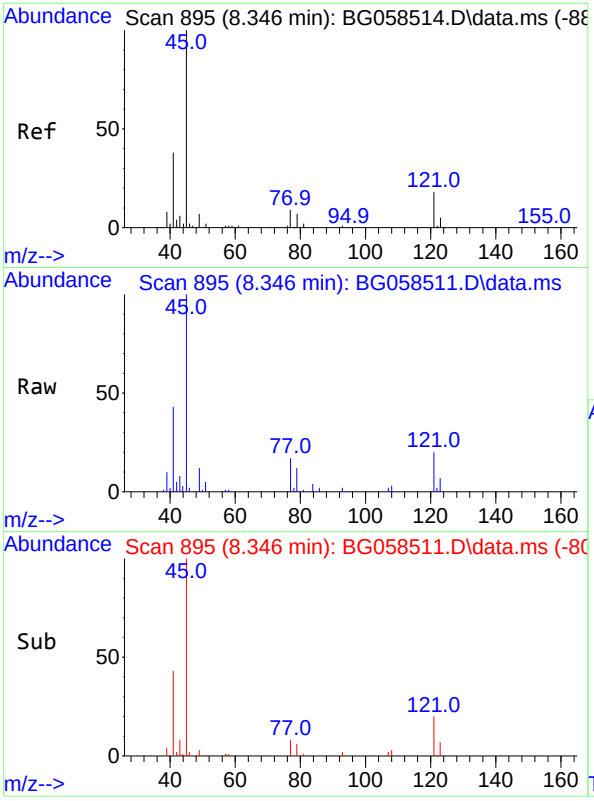


#15
Benzyl Alcohol
Concen: 4.046 ng
RT: 8.059 min Scan# 846
Delta R.T. 0.001 min
Lab File: BG058511.D
Acq: 28 Jul 2023 10:02

Tgt Ion: 79 Resp: 12885

Ion	Ratio	Lower	Upper
79	100		
108	81.2	63.8	95.6
77	67.3	49.8	74.6

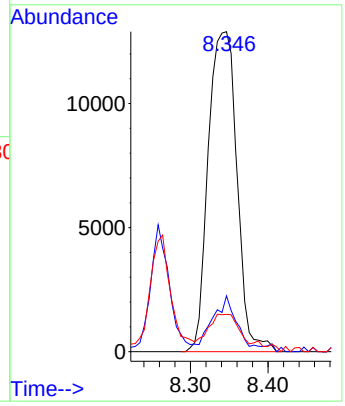




#16
2,2'-oxybis(1-Chloropropane)
Concen: 5.276 ng
RT: 8.346 min Scan# 8
Delta R.T. 0.001 min
Lab File: BG058511.D
Acq: 28 Jul 2023 10:02

Tgt Ion: 45 Resp: 3313

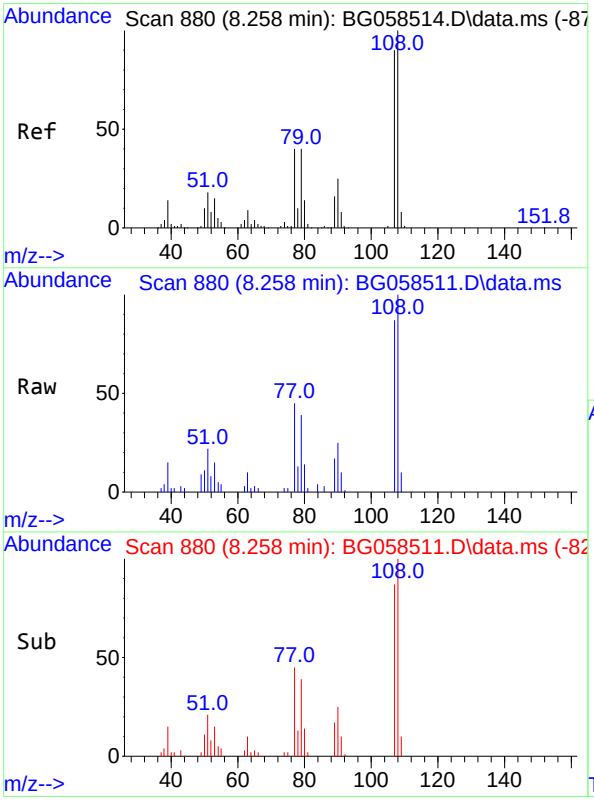
Ion	Ratio	Lower	Upper
45	100		
77	17.4	0.0	32.6
79	11.6	0.0	30.2



Instrument :
BNA_G
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

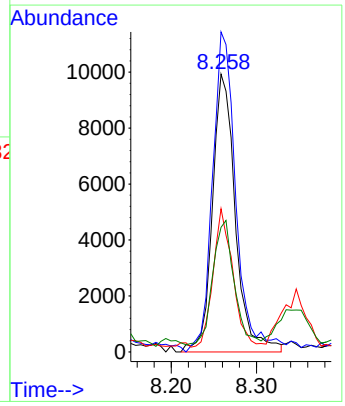
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

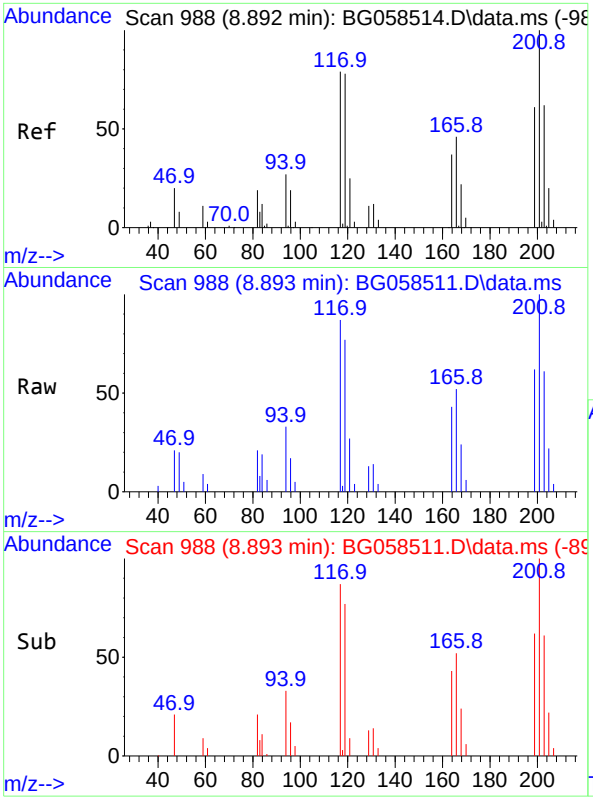


#17
2-Methylphenol
Concen: 5.187 ng
RT: 8.258 min Scan# 880
Delta R.T. 0.001 min
Lab File: BG058511.D
Acq: 28 Jul 2023 10:02

Tgt Ion:107 Resp: 18602

Ion	Ratio	Lower	Upper
107	100		
108	115.2	89.1	133.7
77	51.5	36.2	54.4
79	44.9	36.1	54.1

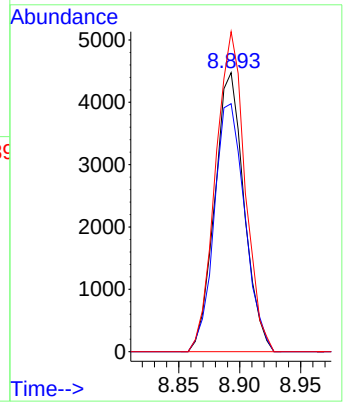




#18
Hexachloroethane
Concen: 5.435 ng
RT: 8.893 min Scan# 9
Delta R.T. 0.001 min
Lab File: BG058511.D
Acq: 28 Jul 2023 10:02

Tgt Ion:117 Resp: 749

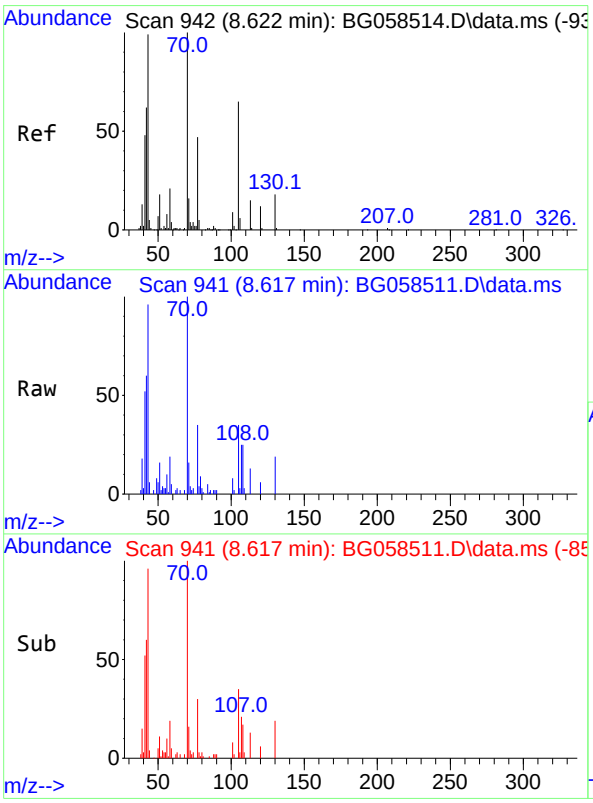
Ion	Ratio	Lower	Upper
117	100		
119	88.9	78.6	117.8
201	114.7	101.4	152.0



Instrument :
BNA_G
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

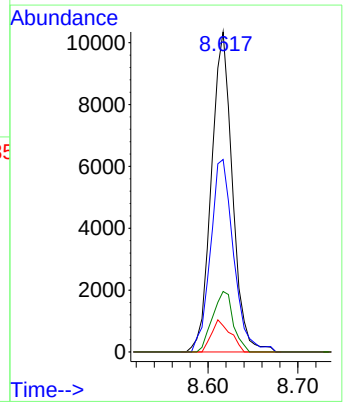
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

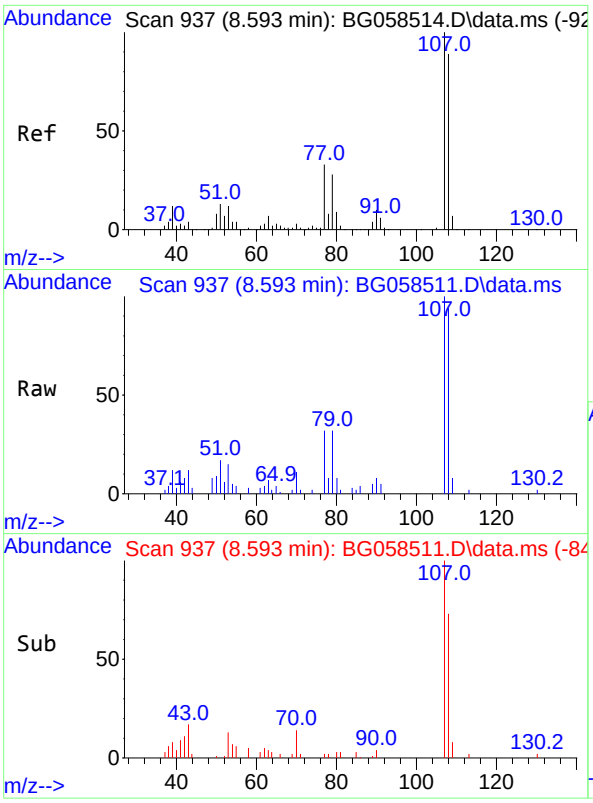


#19
n-Nitroso-di-n-propylamine
Concen: 5.187 ng
RT: 8.617 min Scan# 941
Delta R.T. -0.005 min
Lab File: BG058511.D
Acq: 28 Jul 2023 10:02

Tgt Ion: 70 Resp: 16823

Ion	Ratio	Lower	Upper
70	100		
42	60.1	49.7	74.5
101	8.2	7.0	10.4
130	18.9	14.3	21.5

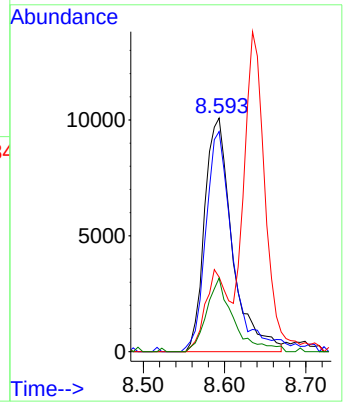




#20
3+4-Methylphenols
Concen: 4.926 ng
RT: 8.593 min Scan# 9
Delta R.T. 0.001 min
Lab File: BG058511.D
Acq: 28 Jul 2023 10:02

Tgt Ion:107 Resp: 2389

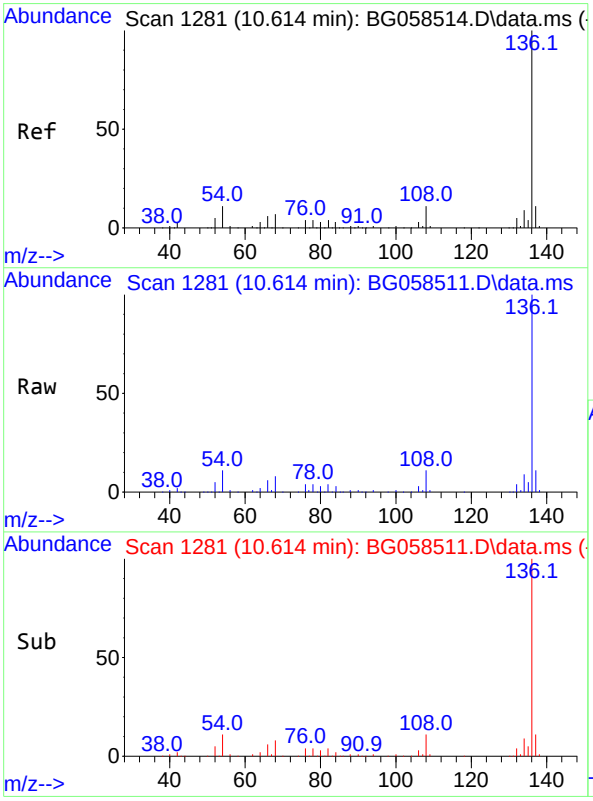
Ion	Ratio	Lower	Upper
107	100		
108	94.3	69.4	109.4
77	31.9	13.0	53.0
79	31.5	8.0	48.0



Instrument :
BNA_G
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

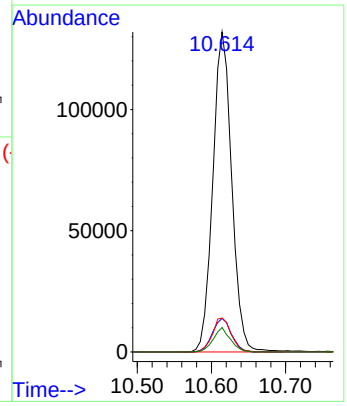
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

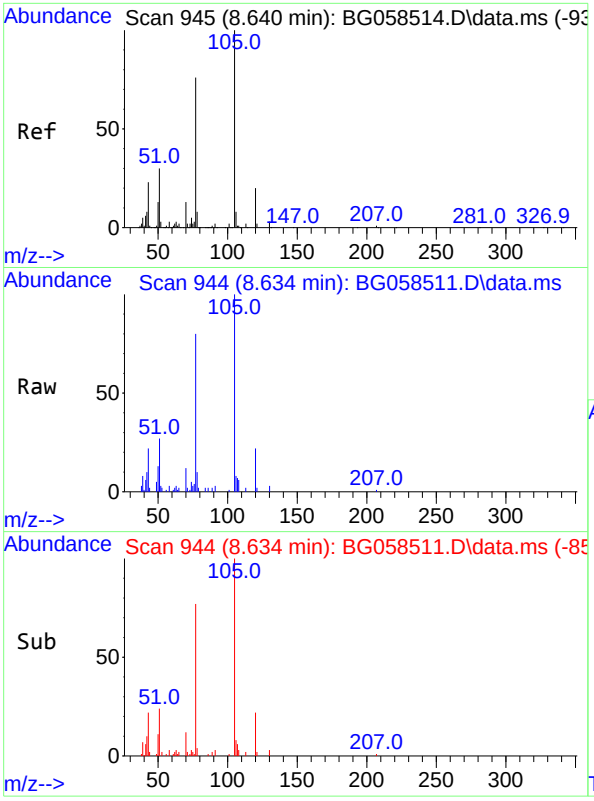


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.614 min Scan# 1281
Delta R.T. 0.001 min
Lab File: BG058511.D
Acq: 28 Jul 2023 10:02

Tgt Ion:136 Resp: 233085

Ion	Ratio	Lower	Upper
136	100		
137	10.5	8.6	13.0
54	10.6	8.9	13.3
68	7.7	5.6	8.4

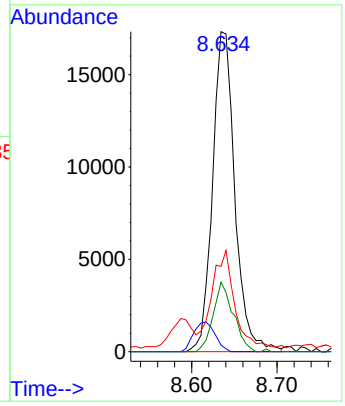




#22
Acetophenone
Concen: 5.044 ng
RT: 8.634 min Scan# 94
Delta R.T. -0.005 min
Lab File: BG058511.D
Acq: 28 Jul 2023 10:02

Tgt Ion:105 Resp: 3148

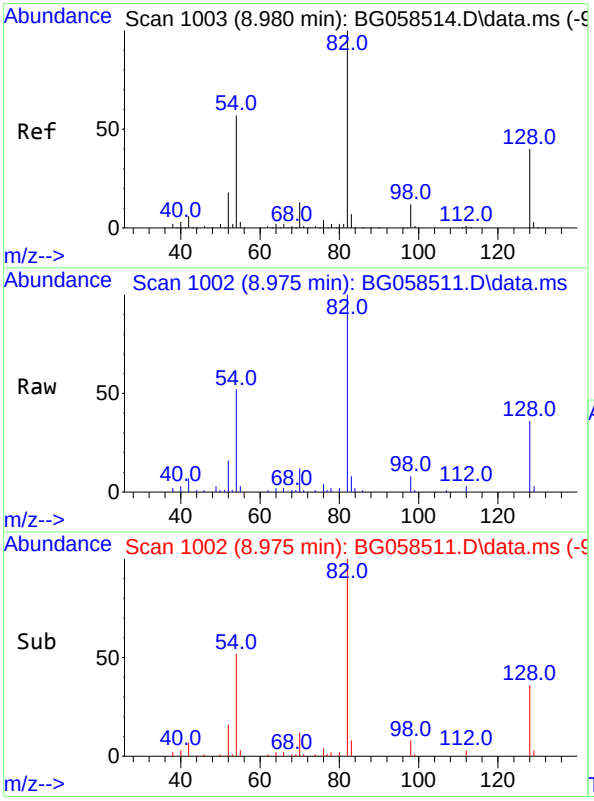
Ion	Ratio	Lower	Upper
105	100		
71	2.1	1.8	2.6
51	26.6	24.2	36.2
120	21.7	16.2	24.4



Instrument :
BNA_G
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

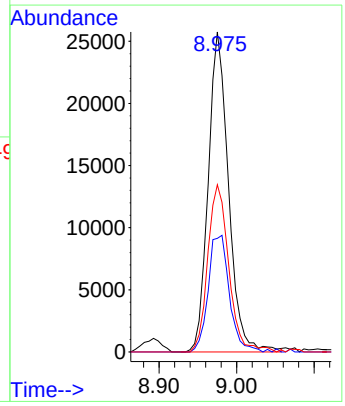
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

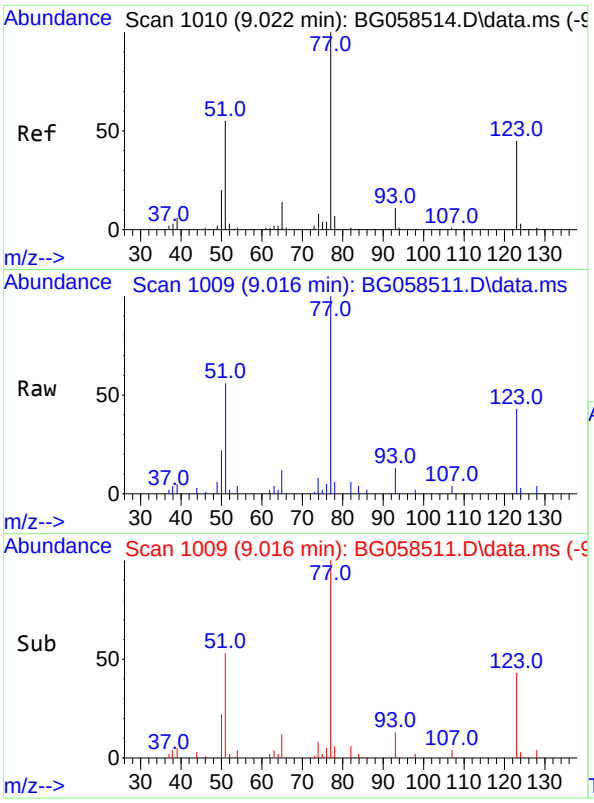


#23
Nitrobenzene-d5
Concen: 9.866 ng
RT: 8.975 min Scan# 1002
Delta R.T. -0.005 min
Lab File: BG058511.D
Acq: 28 Jul 2023 10:02

Tgt Ion: 82 Resp: 46810

Ion	Ratio	Lower	Upper
82	100		
128	35.5	32.2	48.2
54	52.2	46.0	69.0

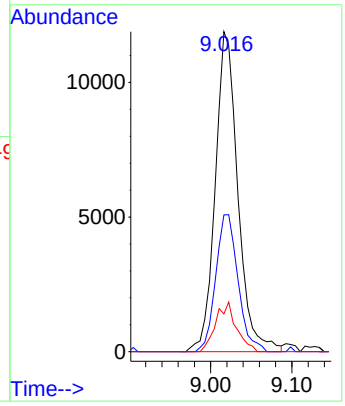




#24
Nitrobenzene
Concen: 4.769 ng
RT: 9.016 min Scan# 1
Delta R.T. -0.005 min
Lab File: BG058511.D
Acq: 28 Jul 2023 10:02

Tgt Ion: 77 Resp: 2300

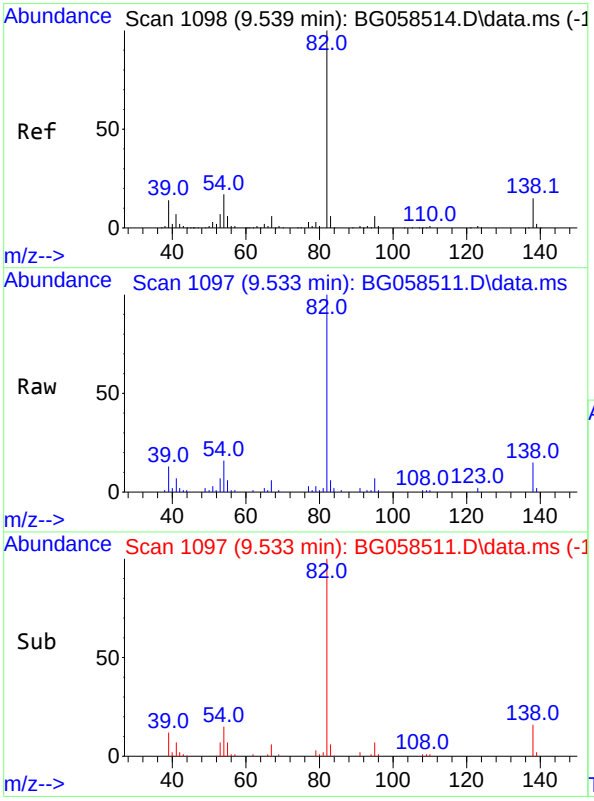
Ion	Ratio	Lower	Upper
77	100		
123	42.8	35.6	53.4
65	11.8	11.4	17.0



Instrument :
BNA_G
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

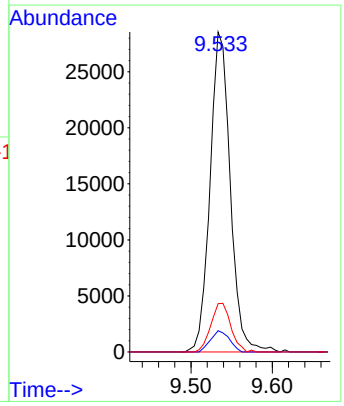
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

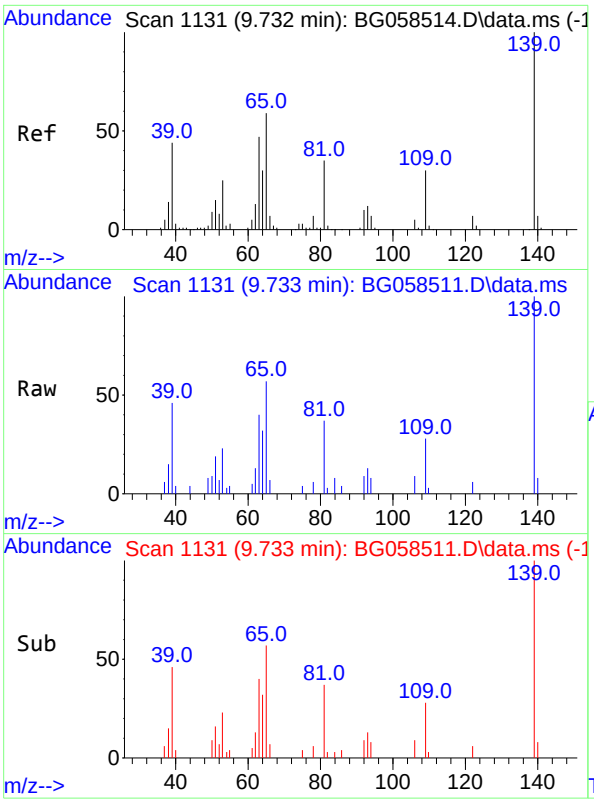


#25
Isophorone
Concen: 5.036 ng
RT: 9.533 min Scan# 1097
Delta R.T. -0.005 min
Lab File: BG058511.D
Acq: 28 Jul 2023 10:02

Tgt Ion: 82 Resp: 49366

Ion	Ratio	Lower	Upper
82	100		
95	6.6	5.1	7.7
138	15.1	11.9	17.9

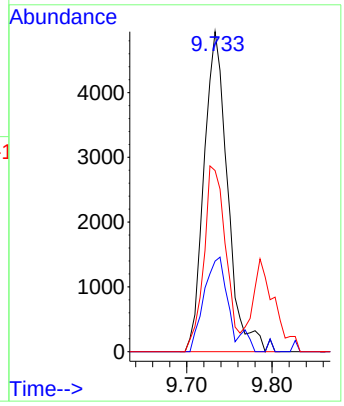




#26
2-Nitrophenol
Concen: 4.536 ng
RT: 9.733 min Scan# 11
Delta R.T. 0.001 min
Lab File: BG058511.D
Acq: 28 Jul 2023 10:02

Tgt Ion:139 Resp: 952

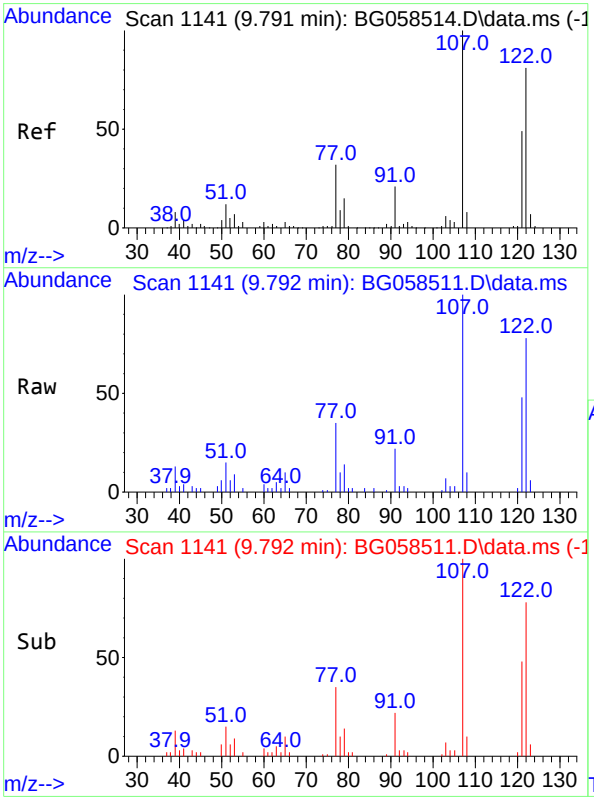
Ion	Ratio	Lower	Upper
139	100		
109	28.3	24.2	36.2
65	56.6	47.0	70.4



Instrument :
BNA_G
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

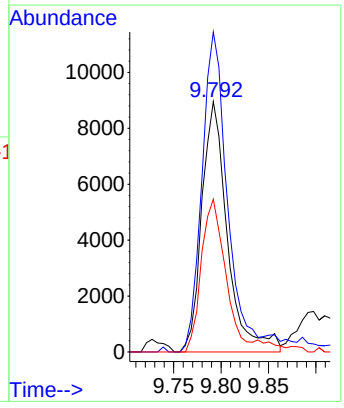
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

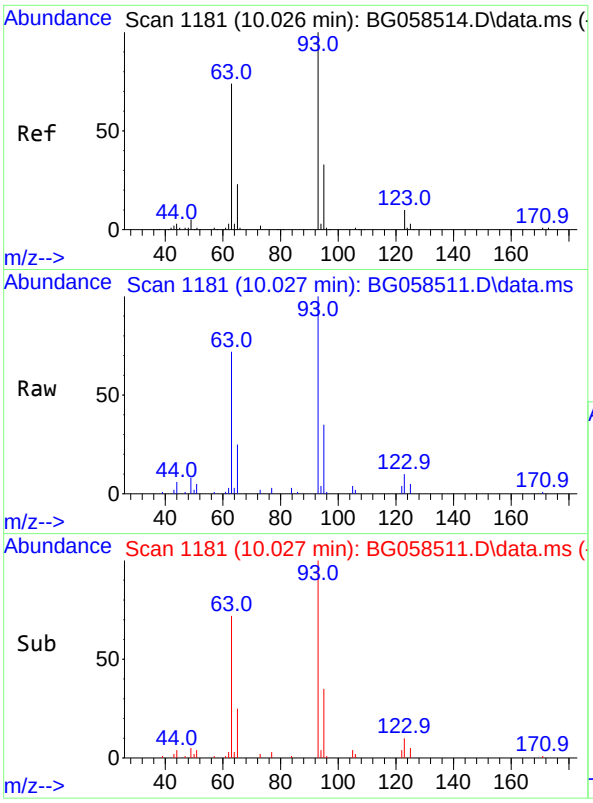


#27
2,4-Dimethylphenol
Concen: 4.831 ng
RT: 9.792 min Scan# 1141
Delta R.T. 0.001 min
Lab File: BG058511.D
Acq: 28 Jul 2023 10:02

Tgt Ion:122 Resp: 16825

Ion	Ratio	Lower	Upper
122	100		
107	127.8	98.0	147.0
121	61.0	47.8	71.6

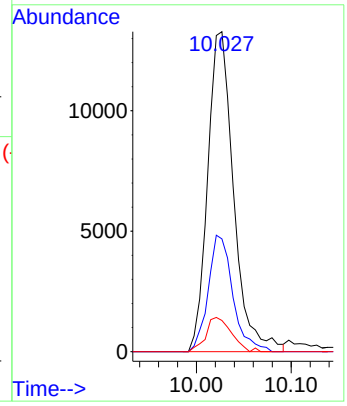




#28
bis(2-Chloroethoxy)methane
Concen: 4.731 ng
RT: 10.027 min Scan# 1
Delta R.T. 0.001 min
Lab File: BG058511.D
Acq: 28 Jul 2023 10:02

Tgt Ion: 93 Resp: 2524

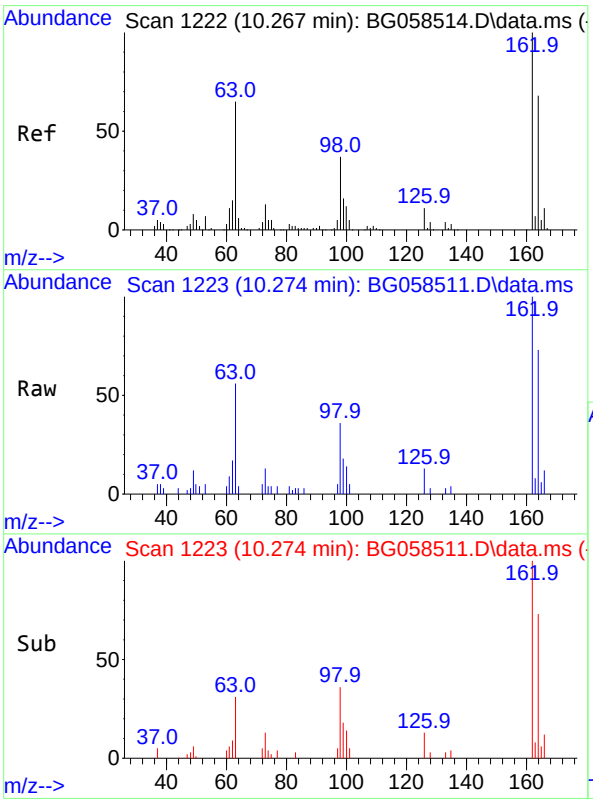
Ion	Ratio	Lower	Upper
93	100		
95	35.2	26.0	39.0
123	9.8	7.8	11.8



Instrument :
BNA_G
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

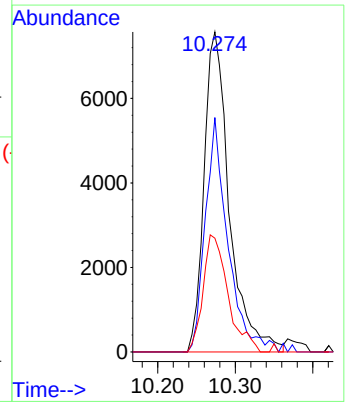
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

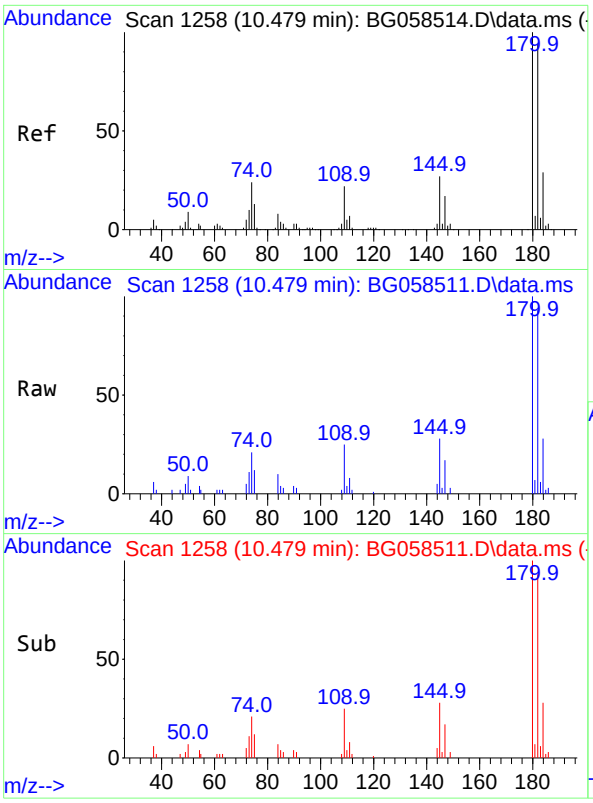


#29
2,4-Dichlorophenol
Concen: 4.733 ng
RT: 10.274 min Scan# 1223
Delta R.T. 0.006 min
Lab File: BG058511.D
Acq: 28 Jul 2023 10:02

Tgt Ion:162 Resp: 17116

Ion	Ratio	Lower	Upper
162	100		
164	73.3	47.6	87.6
98	35.6	17.1	57.1

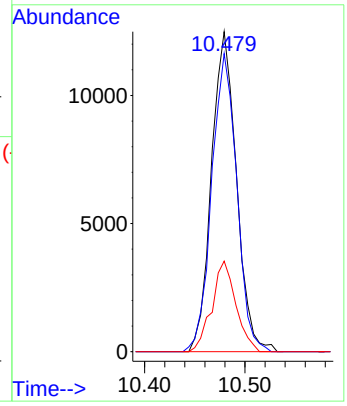




#30
1,2,4-Trichlorobenzene
Concen: 5.176 ng
RT: 10.479 min Scan# 1
Delta R.T. 0.001 min
Lab File: BG058511.D
Acq: 28 Jul 2023 10:02

Tgt Ion:180 Resp: 2158

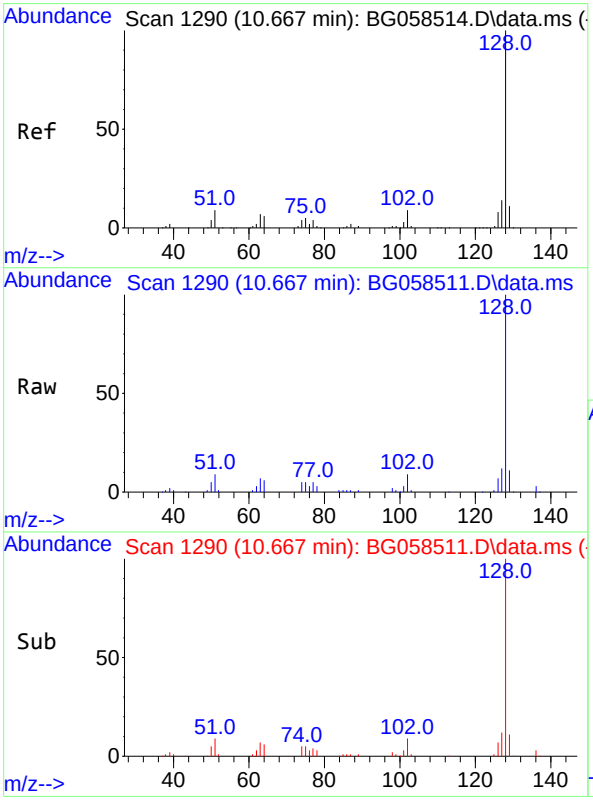
Ion	Ratio	Lower	Upper
180	100		
182	93.2	75.0	112.4
145	28.3	21.9	32.9



Instrument :
BNA_G
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

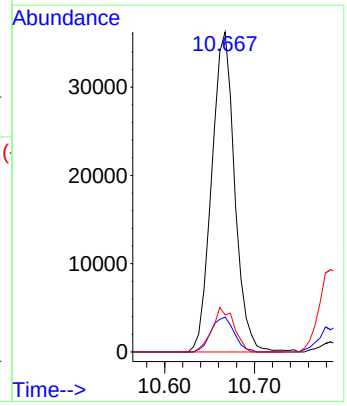
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

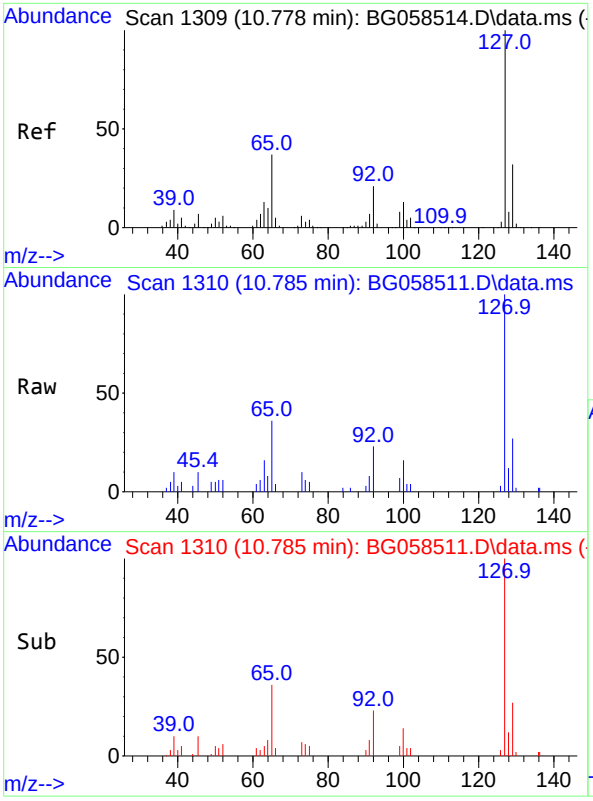


#31
Naphthalene
Concen: 5.238 ng
RT: 10.667 min Scan# 1290
Delta R.T. 0.001 min
Lab File: BG058511.D
Acq: 28 Jul 2023 10:02

Tgt Ion:128 Resp: 64349

Ion	Ratio	Lower	Upper
128	100		
129	10.9	8.8	13.2
127	11.6	10.9	16.3

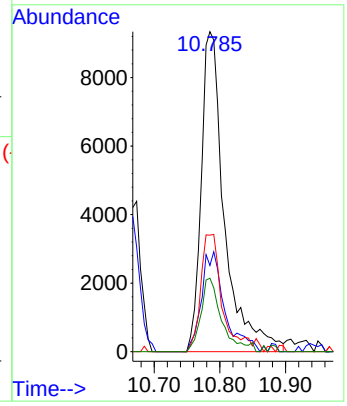




#33
4-Chloroaniline
Concen: 4.437 ng
RT: 10.785 min Scan# 1
Delta R.T. 0.006 min
Lab File: BG058511.D
Acq: 28 Jul 2023 10:02

Tgt Ion:127 Resp: 2303

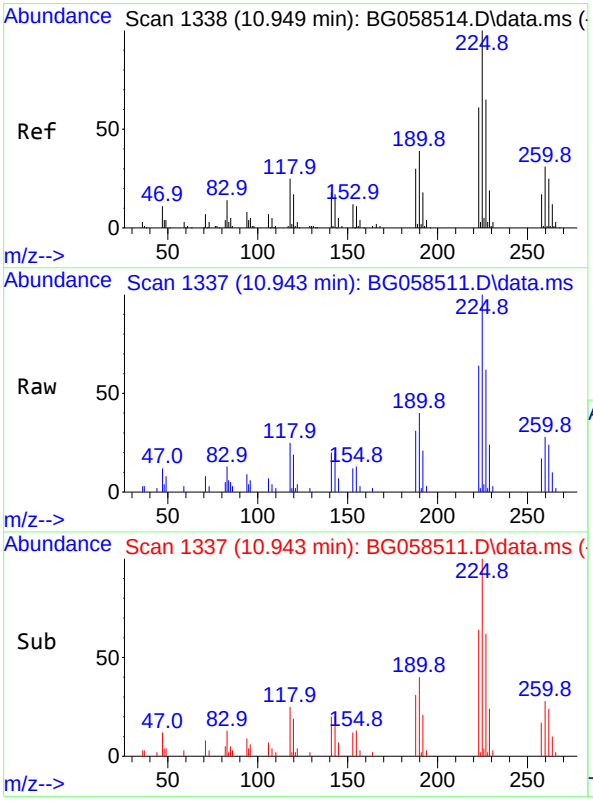
Ion	Ratio	Lower	Upper
127	100		
129	27.0	25.4	38.2
65	36.4	29.5	44.3
92	23.0	16.6	24.8



Instrument :
BNA_G
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

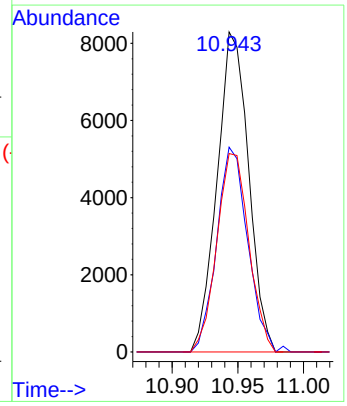
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

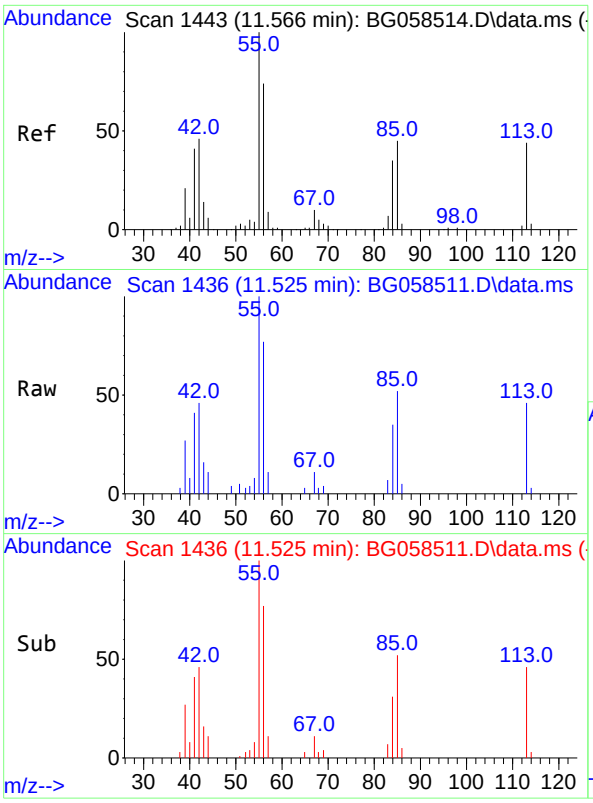


#34
Hexachlorobutadiene
Concen: 5.157 ng
RT: 10.943 min Scan# 1337
Delta R.T. -0.005 min
Lab File: BG058511.D
Acq: 28 Jul 2023 10:02

Tgt Ion:225 Resp: 13850

Ion	Ratio	Lower	Upper
225	100		
223	63.5	49.0	73.6
227	59.5	51.7	77.5

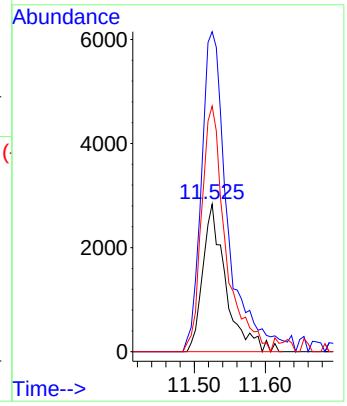




#35
Caprolactam
Concen: 4.796 ng
RT: 11.525 min Scan# 14
Delta R.T. -0.041 min
Lab File: BG058511.D
Acq: 28 Jul 2023 10:02

Tgt Ion:113 Resp: 640

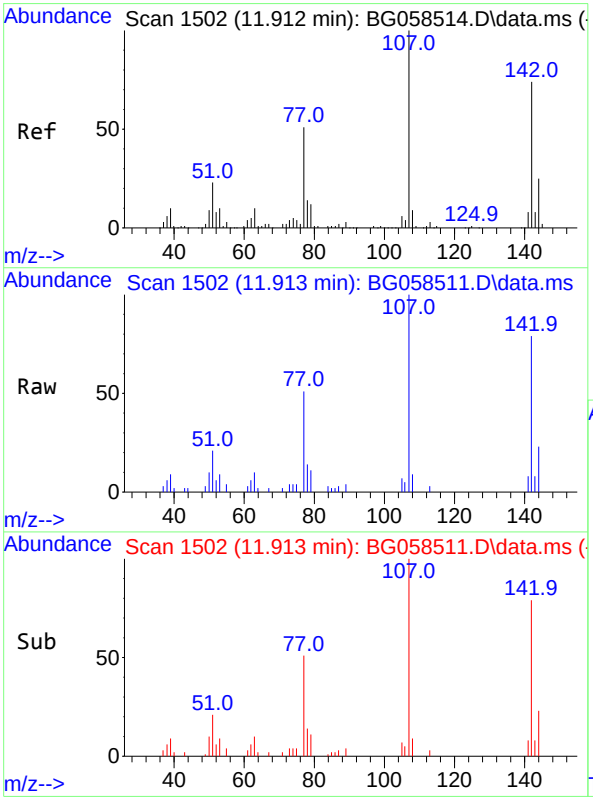
Ion	Ratio	Lower	Upper
113	100		
55	216.9	208.0	248.0
56	166.4	148.6	188.6



Instrument :
BNA_G
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

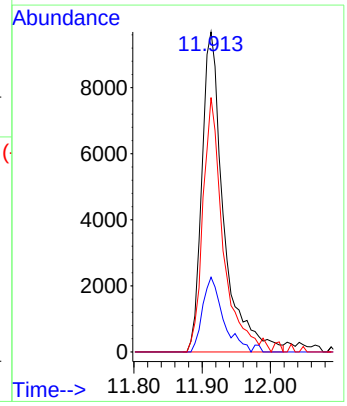
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

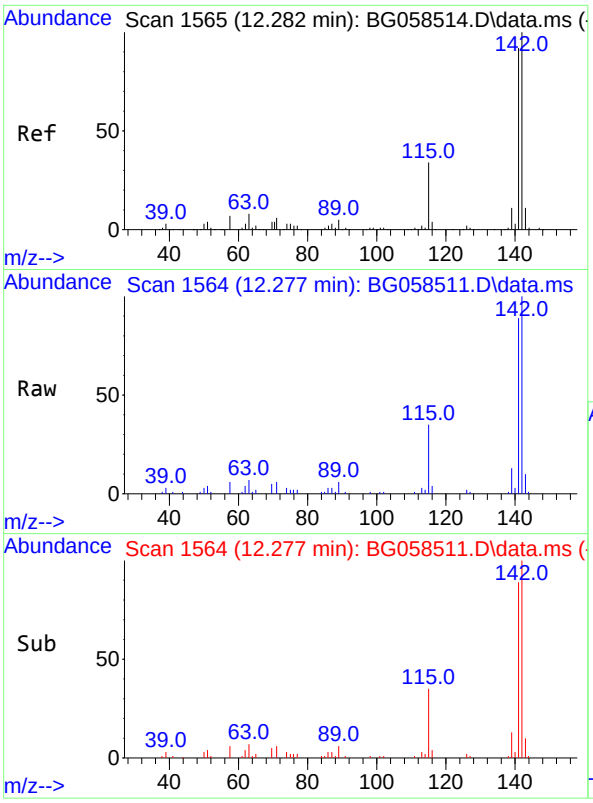


#36
4-Chloro-3-methylphenol
Concen: 4.799 ng
RT: 11.913 min Scan# 1502
Delta R.T. 0.001 min
Lab File: BG058511.D
Acq: 28 Jul 2023 10:02

Tgt Ion:107 Resp: 21470

Ion	Ratio	Lower	Upper
107	100		
144	23.3	19.6	29.4
142	79.5	59.3	88.9

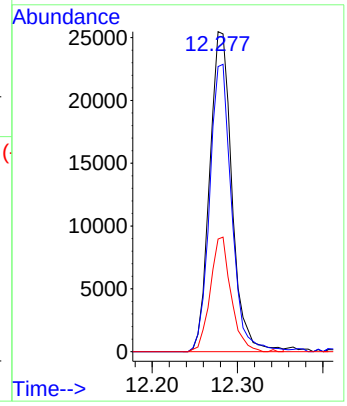




#37
2-Methylnaphthalene
Concen: 5.260 ng
RT: 12.277 min Scan# 1
Delta R.T. -0.005 min
Lab File: BG058511.D
Acq: 28 Jul 2023 10:02

Tgt Ion:142 Resp: 4622

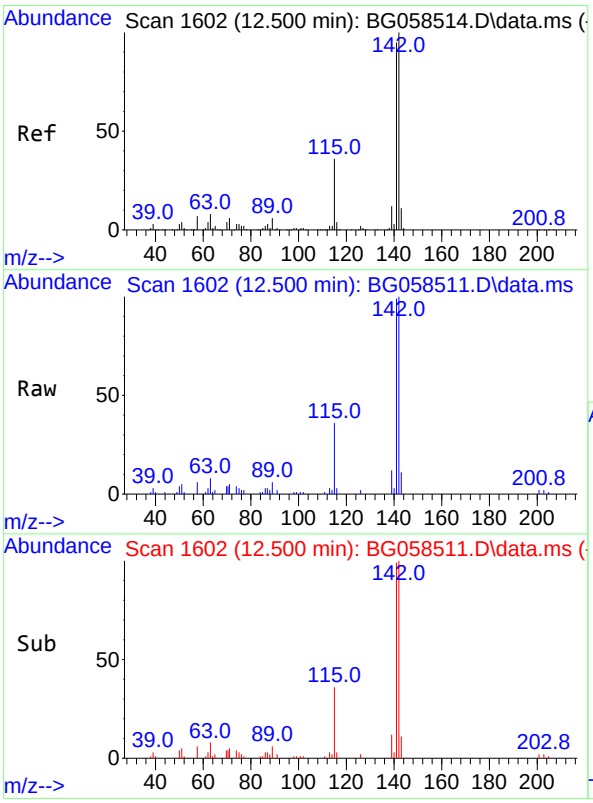
Ion	Ratio	Lower	Upper
142	100		
141	89.1	73.5	110.3
115	35.2	27.4	41.0



Instrument :
BNA_G
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

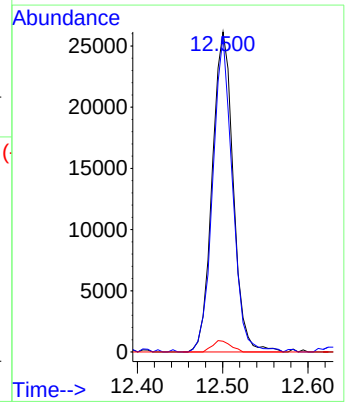
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

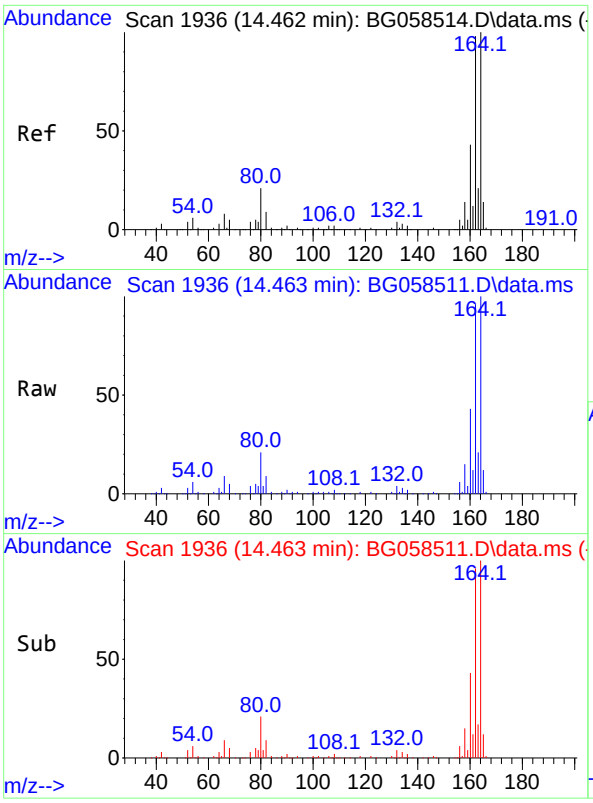


#38
1-Methylnaphthalene
Concen: 5.341 ng
RT: 12.500 min Scan# 1602
Delta R.T. 0.001 min
Lab File: BG058511.D
Acq: 28 Jul 2023 10:02

Tgt Ion:142 Resp: 44611

Ion	Ratio	Lower	Upper
142	100		
141	98.8	75.7	113.5
116	3.3	3.2	4.8

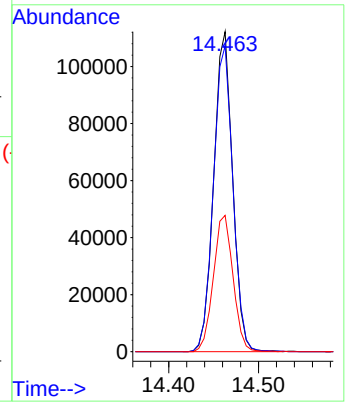




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.463 min Scan# 1
Delta R.T. 0.001 min
Lab File: BG058511.D
Acq: 28 Jul 2023 10:02

Tgt Ion:164 Resp: 16385

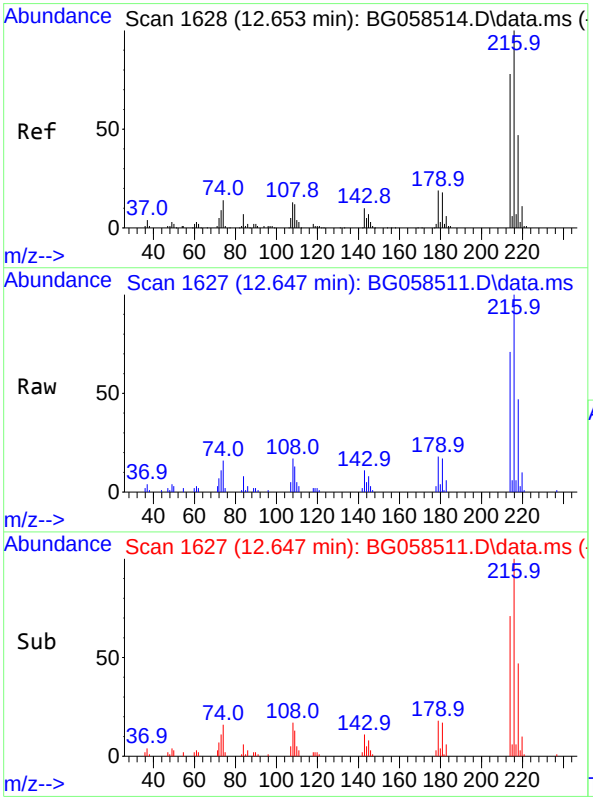
Ion	Ratio	Lower	Upper
164	100		
162	95.6	78.3	117.5
160	42.6	34.1	51.1



Instrument :
BNA_G
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

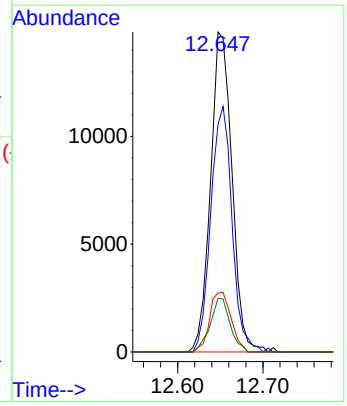
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

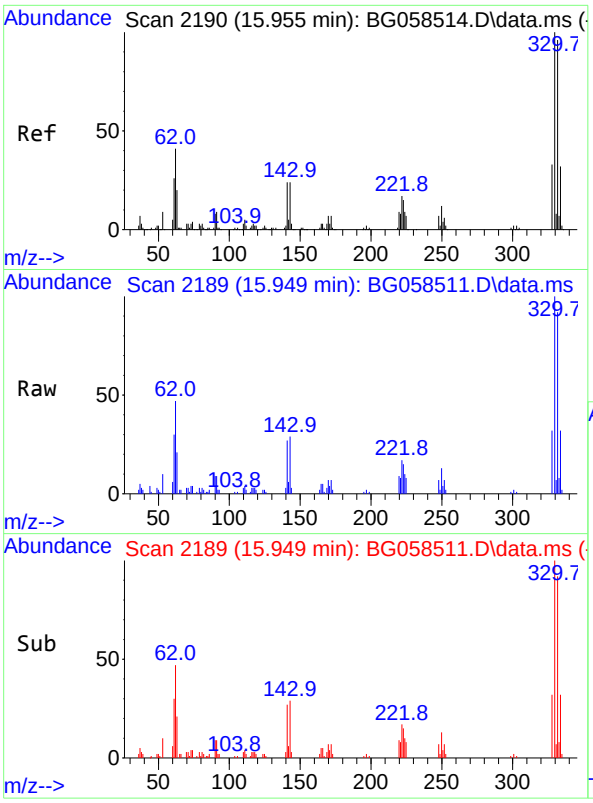


#40
1,2,4,5-Tetrachlorobenzene
Concen: 5.164 ng
RT: 12.647 min Scan# 1627
Delta R.T. -0.005 min
Lab File: BG058511.D
Acq: 28 Jul 2023 10:02

Tgt Ion:216 Resp: 25980

Ion	Ratio	Lower	Upper
216	100		
214	75.9	63.1	94.7
179	18.7	15.6	23.4
108	15.6	12.7	19.1

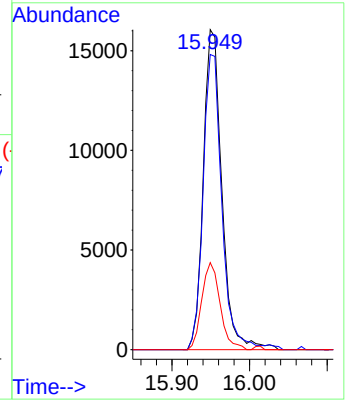




#42
2,4,6-Tribromophenol
Concen: 9.950 ng
RT: 15.949 min Scan# 2
Delta R.T. -0.005 min
Lab File: BG058511.D
Acq: 28 Jul 2023 10:02

Tgt Ion:330 Resp: 2672

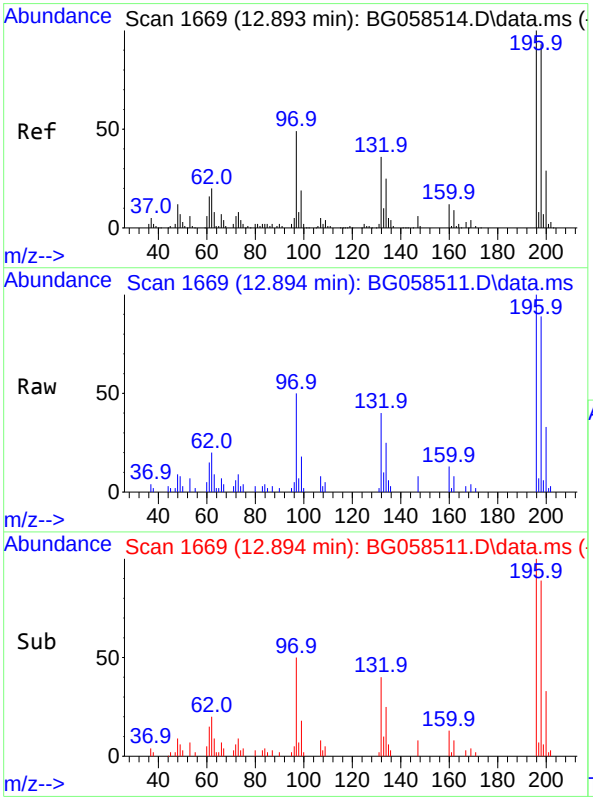
Ion	Ratio	Lower	Upper
330	100		
332	92.9	77.5	116.3
141	26.8	20.7	31.1



Instrument :
BNA_G
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

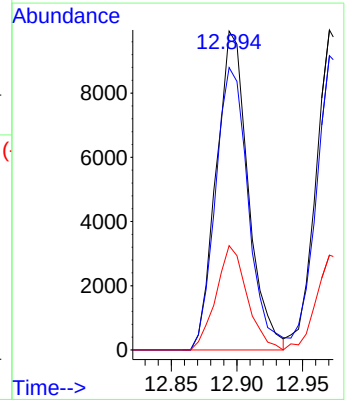
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

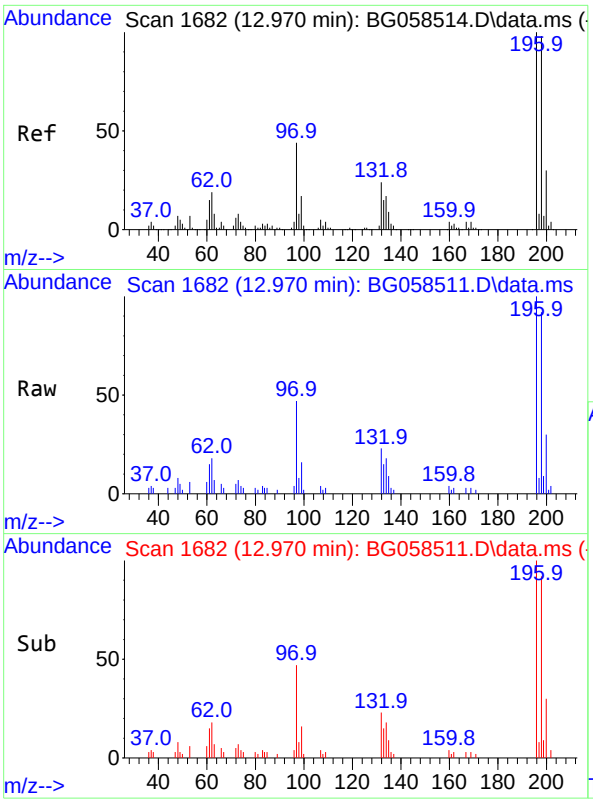


#43
2,4,6-Trichlorophenol
Concen: 4.866 ng
RT: 12.894 min Scan# 1669
Delta R.T. 0.001 min
Lab File: BG058511.D
Acq: 28 Jul 2023 10:02

Tgt Ion:196 Resp: 16838

Ion	Ratio	Lower	Upper
196	100		
198	88.5	74.2	111.4
200	32.7	22.9	34.3

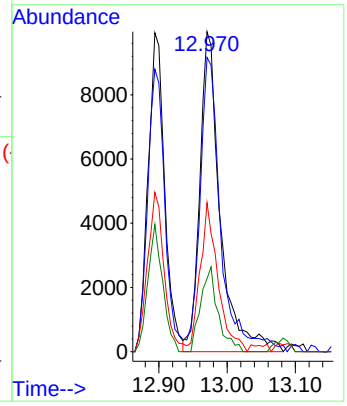




#44
2,4,5-Trichlorophenol
Concen: 5.089 ng
RT: 12.970 min Scan# 1
Delta R.T. 0.001 min
Lab File: BG058511.D
Acq: 28 Jul 2023 10:02

Tgt Ion:196 Resp: 2073

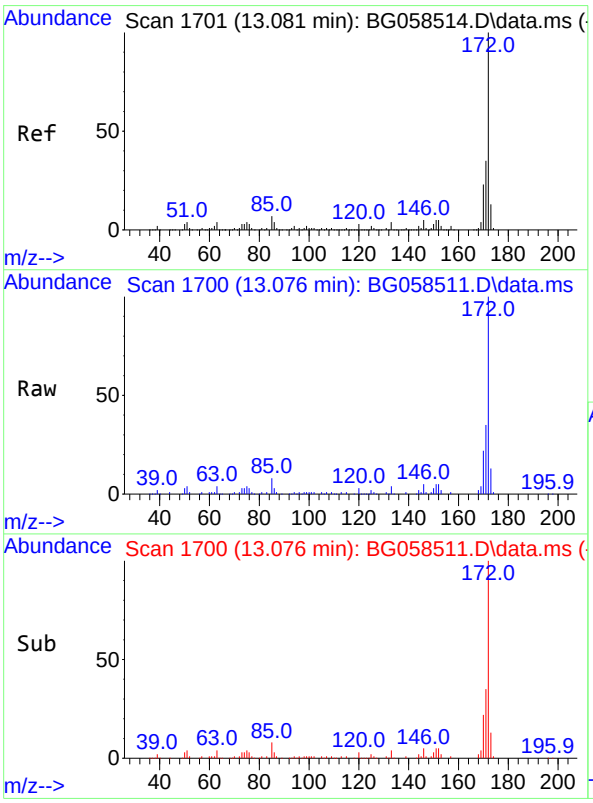
Ion	Ratio	Lower	Upper
196	100		
198	91.9	78.3	117.5
97	46.6	35.2	52.8
132	22.8	19.4	29.0



Instrument :
BNA_G
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

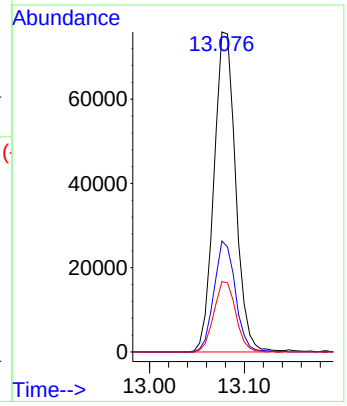
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

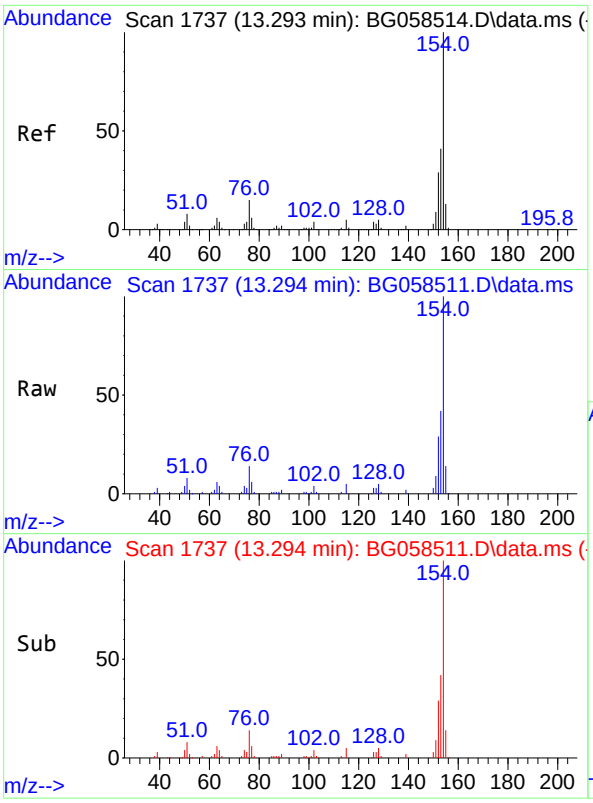


#45
2-Fluorobiphenyl
Concen: 11.009 ng
RT: 13.076 min Scan# 1700
Delta R.T. -0.005 min
Lab File: BG058511.D
Acq: 28 Jul 2023 10:02

Tgt Ion:172 Resp: 120367

Ion	Ratio	Lower	Upper
172	100		
171	34.6	28.0	42.0
170	22.0	18.4	27.6

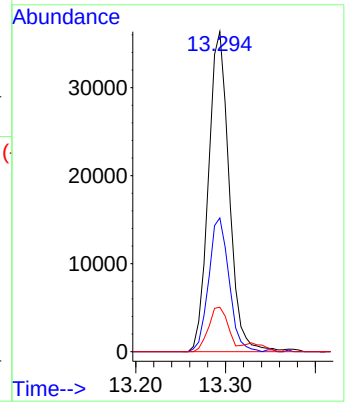




#46
1,1'-Biphenyl
Concen: 5.176 ng
RT: 13.294 min Scan# 1
Delta R.T. 0.001 min
Lab File: BG058511.D
Acq: 28 Jul 2023 10:02

Tgt Ion:154 Resp: 5824

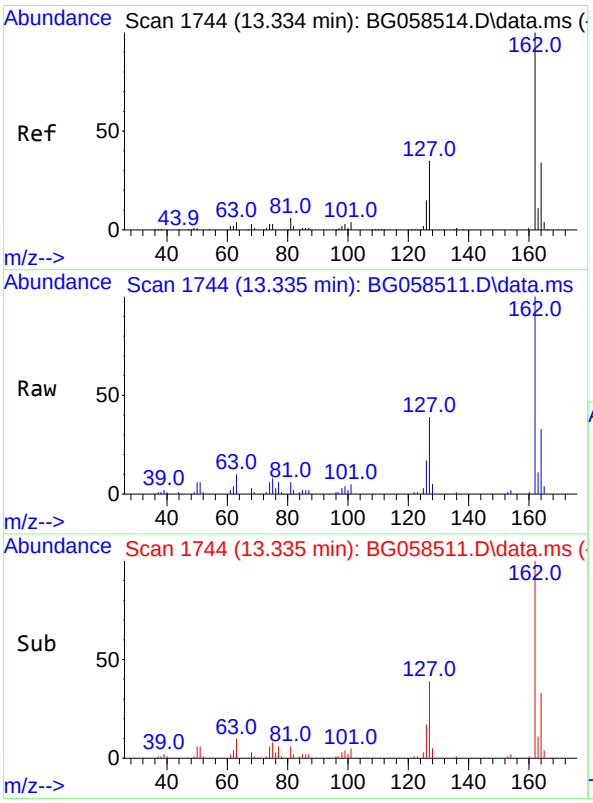
Ion	Ratio	Lower	Upper
154	100		
153	41.8	21.2	61.2
76	13.9	0.0	34.7



Instrument :
BNA_G
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

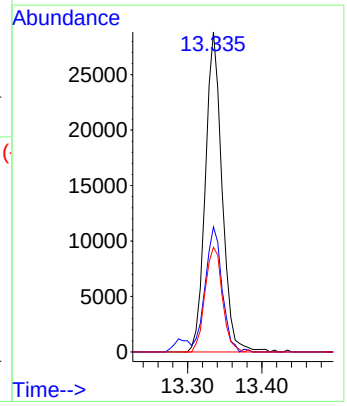
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

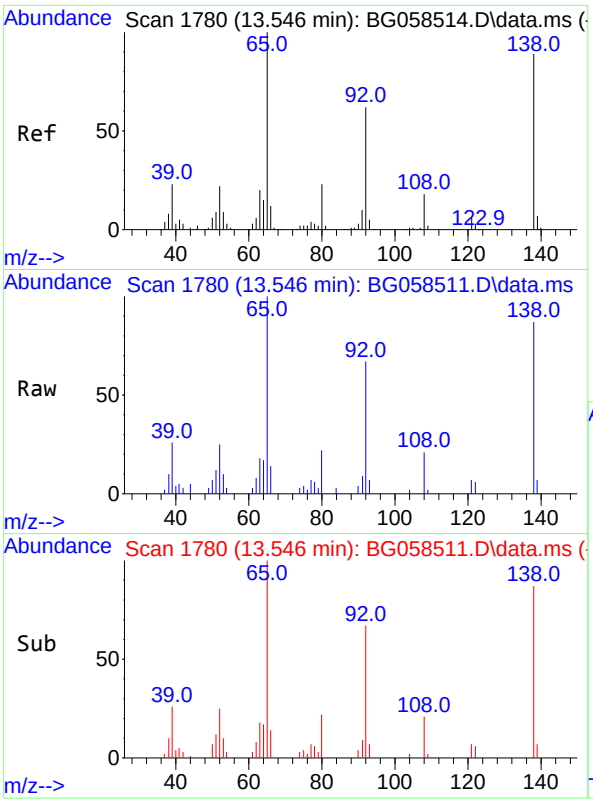


#47
2-Chloronaphthalene
Concen: 5.148 ng
RT: 13.335 min Scan# 1744
Delta R.T. 0.001 min
Lab File: BG058511.D
Acq: 28 Jul 2023 10:02

Tgt Ion:162 Resp: 45164

Ion	Ratio	Lower	Upper
162	100		
127	39.1	30.9	46.3
164	32.7	27.2	40.8

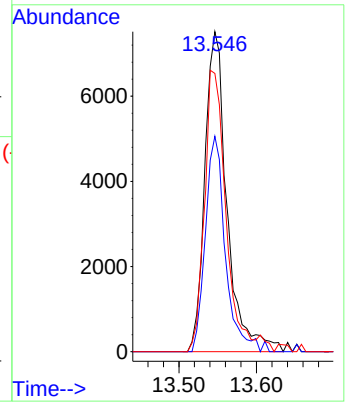




#48
2-Nitroaniline
Concen: 4.458 ng
RT: 13.546 min Scan# 1
Delta R.T. 0.001 min
Lab File: BG058511.D
Acq: 28 Jul 2023 10:02

Tgt Ion: 65 Resp: 1492

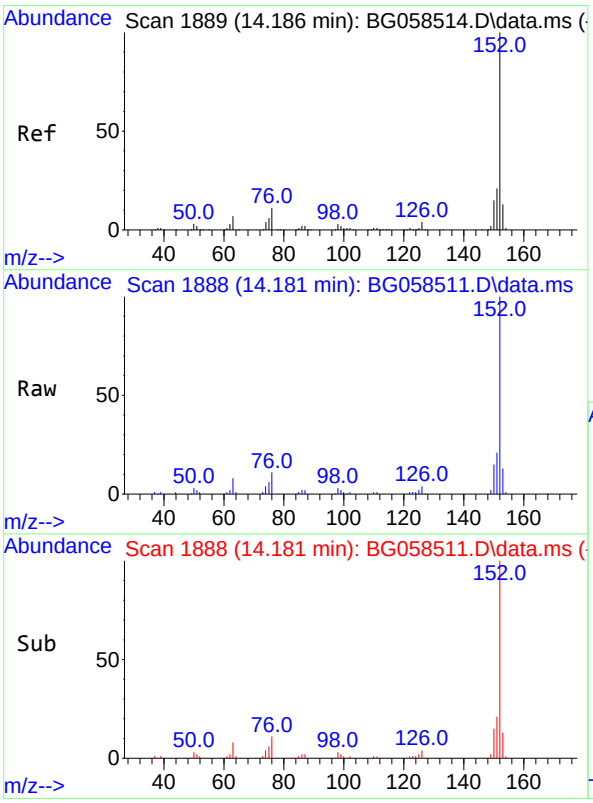
Ion	Ratio	Lower	Upper
65	100		
92	67.3	49.2	73.8
138	86.9	71.5	107.3



Instrument :
BNA_G
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

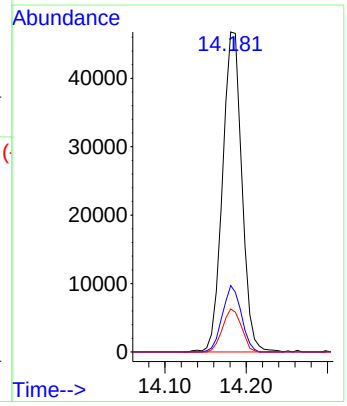
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

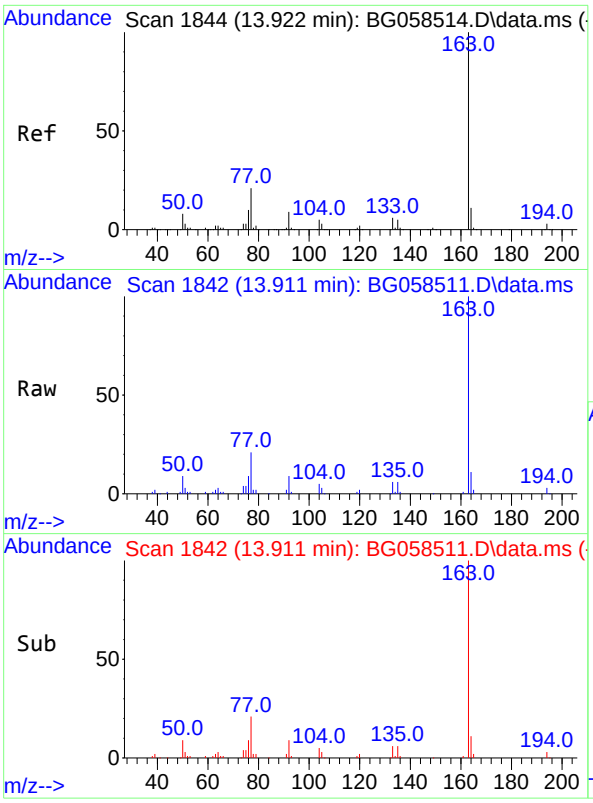


#49
Acenaphthylene
Concen: 5.271 ng
RT: 14.181 min Scan# 1888
Delta R.T. -0.005 min
Lab File: BG058511.D
Acq: 28 Jul 2023 10:02

Tgt Ion:152 Resp: 77433

Ion	Ratio	Lower	Upper
152	100		
151	20.7	16.5	24.7
153	13.4	10.7	16.1

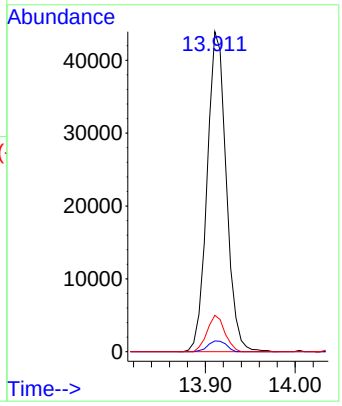




#50
Dimethylphthalate
Concen: 5.275 ng
RT: 13.911 min Scan# 1
Delta R.T. -0.011 min
Lab File: BG058511.D
Acq: 28 Jul 2023 10:02

Tgt Ion:163 Resp: 6491

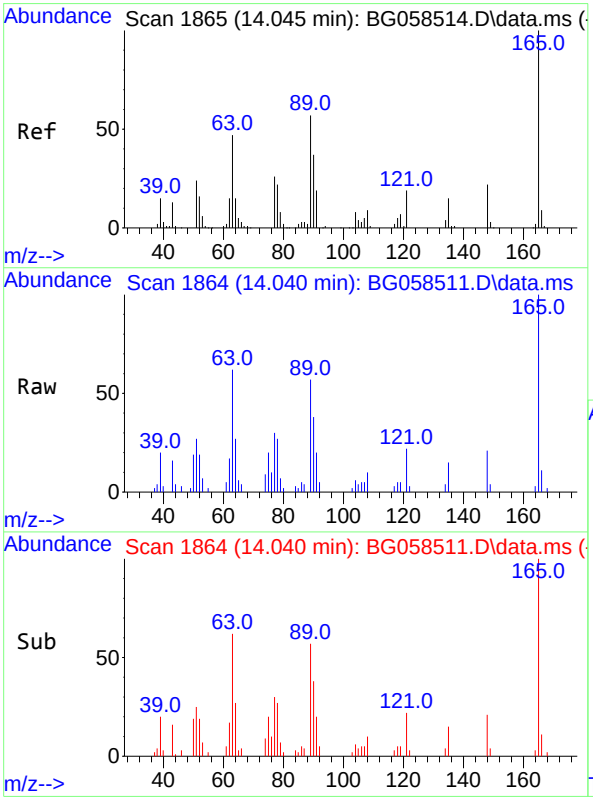
Ion	Ratio	Lower	Upper
163	100		
194	3.3	2.7	4.1
164	11.3	8.6	12.8



Instrument :
BNA_G
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

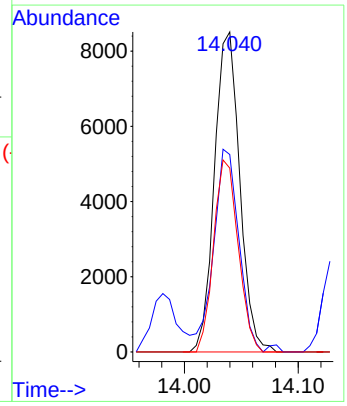
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

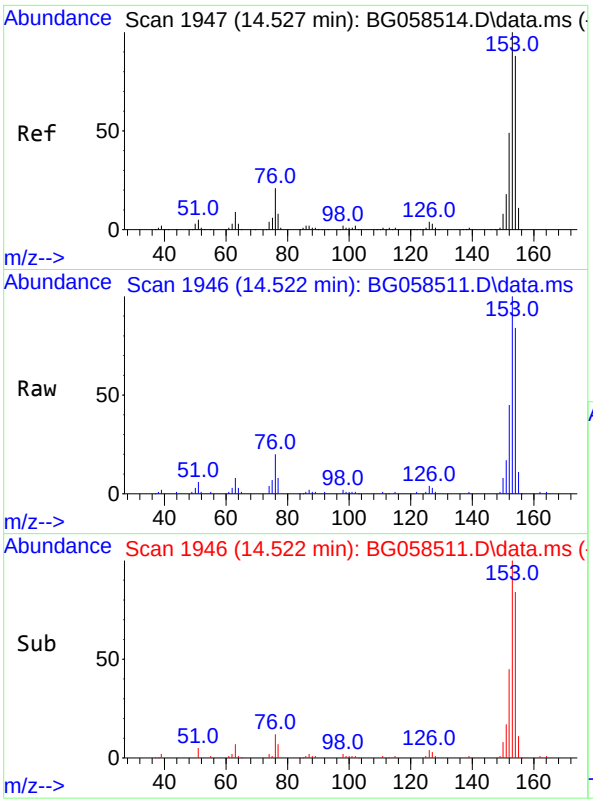


#51
2,6-Dinitrotoluene
Concen: 4.870 ng
RT: 14.040 min Scan# 1864
Delta R.T. -0.005 min
Lab File: BG058511.D
Acq: 28 Jul 2023 10:02

Tgt Ion:165 Resp: 13150

Ion	Ratio	Lower	Upper
165	100		
63	61.7	46.4	69.6
89	57.4	45.3	67.9

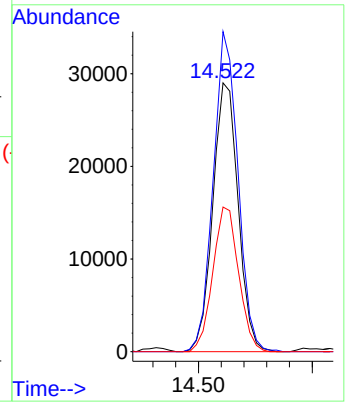




#52
Acenaphthene
Concen: 5.292 ng
RT: 14.522 min Scan# 1
Delta R.T. -0.005 min
Lab File: BG058511.D
Acq: 28 Jul 2023 10:02

Tgt Ion:154 Resp: 4491

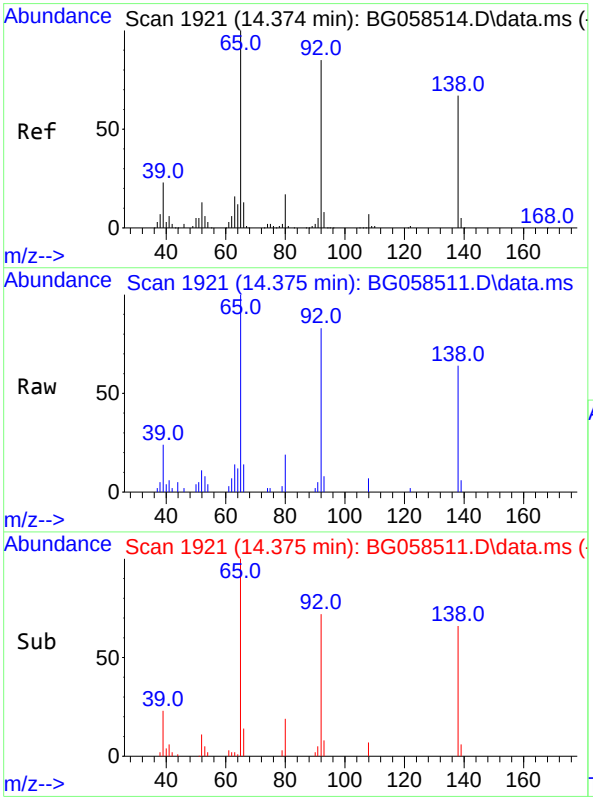
Ion	Ratio	Lower	Upper
154	100		
153	119.1	91.1	136.7
152	53.8	44.6	66.8



Instrument :
BNA_G
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

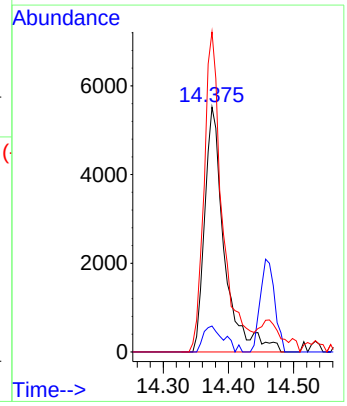
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

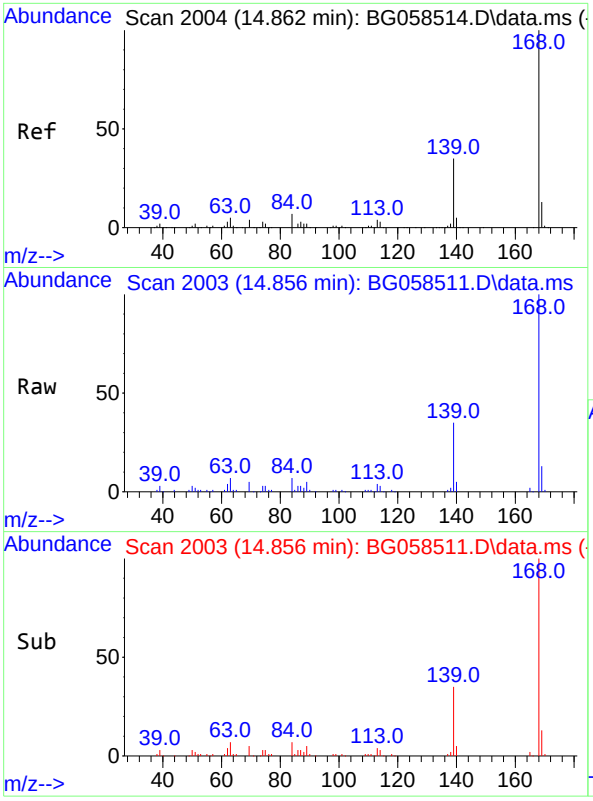


#53
3-Nitroaniline
Concen: 4.261 ng m
RT: 14.375 min Scan# 1921
Delta R.T. 0.001 min
Lab File: BG058511.D
Acq: 28 Jul 2023 10:02

Tgt Ion:138 Resp: 11510

Ion	Ratio	Lower	Upper
138	100		
108	10.6	8.3	12.5
92	130.7	101.1	151.7

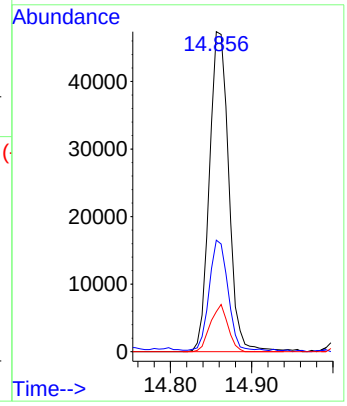




#55
Dibenzofuran
Concen: 5.368 ng
RT: 14.856 min Scan# 2
Delta R.T. -0.005 min
Lab File: BG058511.D
Acq: 28 Jul 2023 10:02

Tgt Ion:168 Resp: 7829

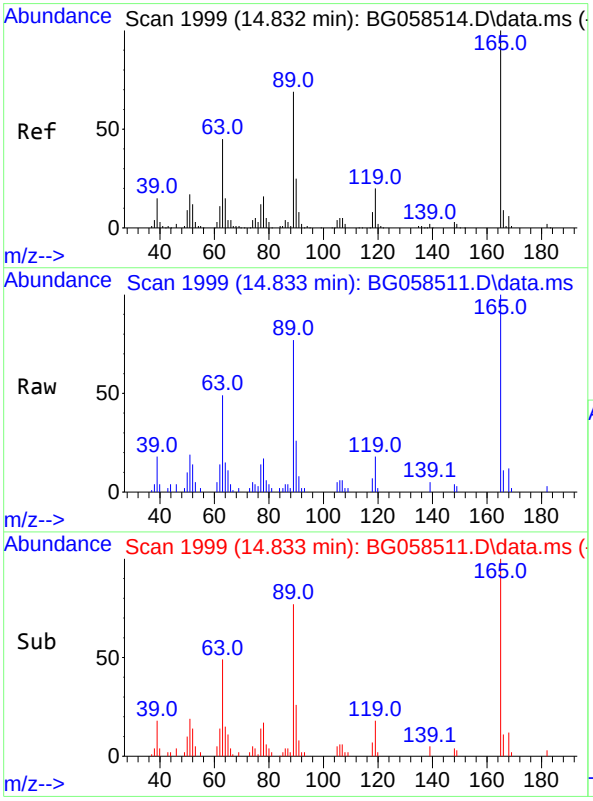
Ion	Ratio	Lower	Upper
168	100		
139	34.9	27.8	41.8
169	12.5	10.6	16.0



Instrument :
BNA_G
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

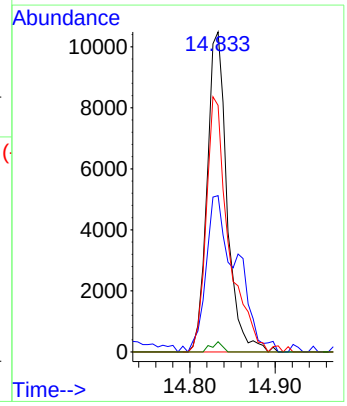
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

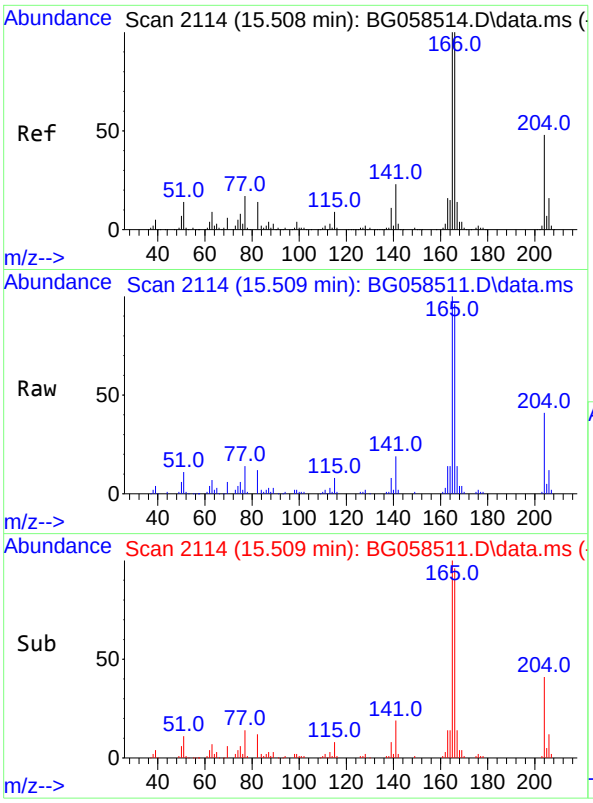


#57
2,4-Dinitrotoluene
Concen: 4.541 ng
RT: 14.833 min Scan# 1999
Delta R.T. 0.001 min
Lab File: BG058511.D
Acq: 28 Jul 2023 10:02

Tgt Ion:165 Resp: 16997

Ion	Ratio	Lower	Upper
165	100		
63	48.8	36.6	54.8
89	77.1	55.4	83.0
182	3.2	1.8	2.6#

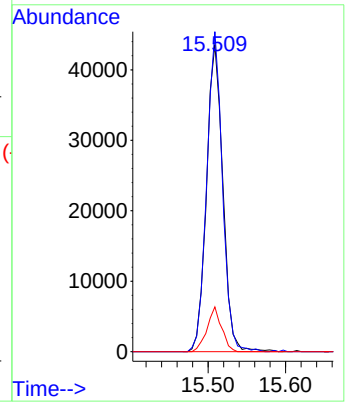




#58
Fluorene
Concen: 5.520 ng
RT: 15.509 min Scan# 21
Delta R.T. 0.001 min
Lab File: BG058511.D
Acq: 28 Jul 2023 10:02

Tgt Ion:166 Resp: 6395

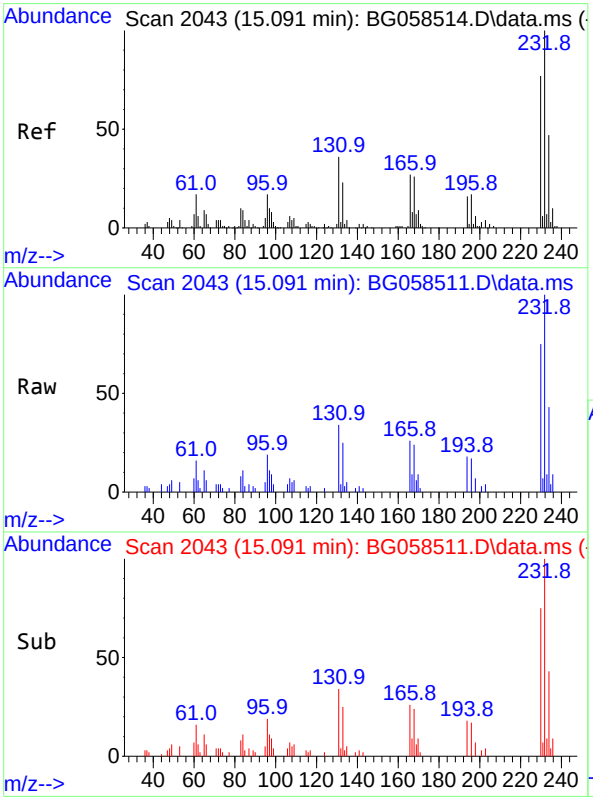
Ion	Ratio	Lower	Upper
166	100		
165	104.2	80.0	120.0
167	14.6	11.3	16.9



Instrument :
BNA_G
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

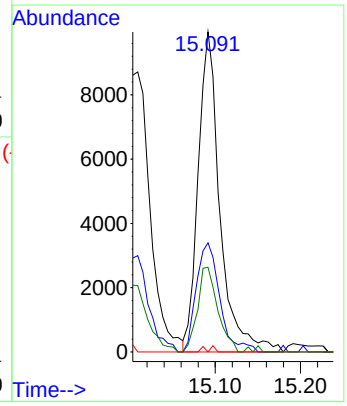
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

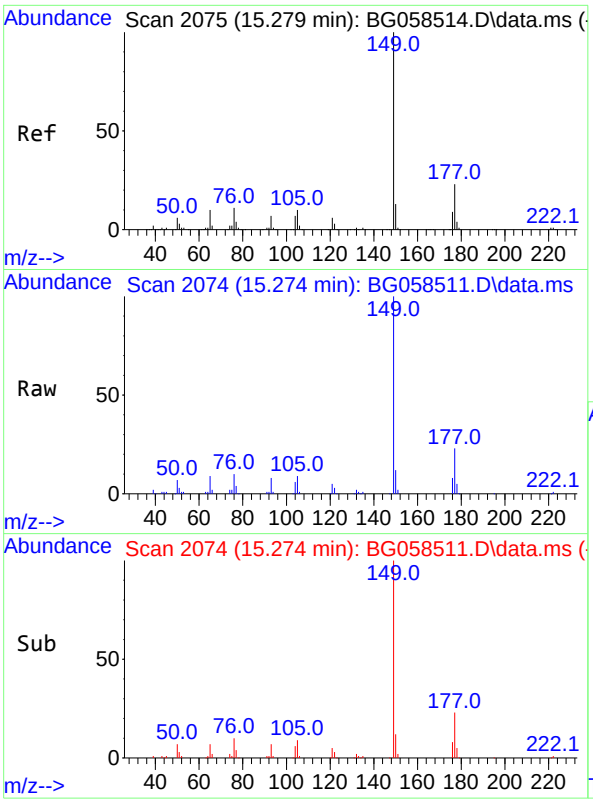


#59
2,3,4,6-Tetrachlorophenol
Concen: 5.073 ng
RT: 15.091 min Scan# 2043
Delta R.T. 0.001 min
Lab File: BG058511.D
Acq: 28 Jul 2023 10:02

Tgt Ion:232 Resp: 17643

Ion	Ratio	Lower	Upper
232	100		
131	36.6	30.0	45.0
130	0.3	1.5	2.3#
166	24.7	22.8	34.2

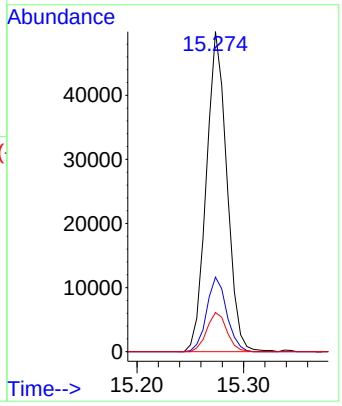




#60
Diethylphthalate
Concen: 5.314 ng
RT: 15.274 min Scan# 2
Delta R.T. -0.005 min
Lab File: BG058511.D
Acq: 28 Jul 2023 10:02

Tgt Ion:149 Resp: 6661

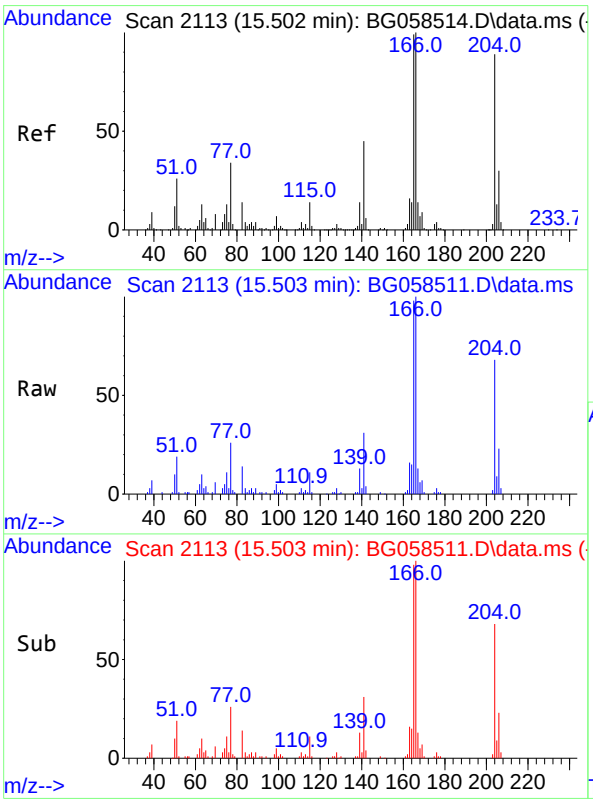
Ion	Ratio	Lower	Upper
149	100		
177	23.3	18.2	27.4
150	12.2	10.2	15.4



Instrument :
BNA_G
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

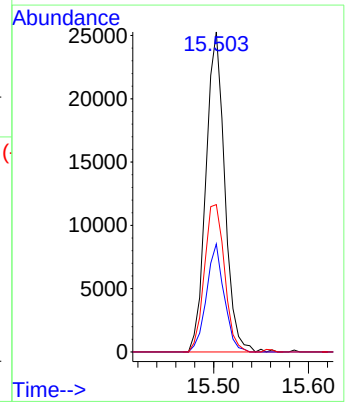
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

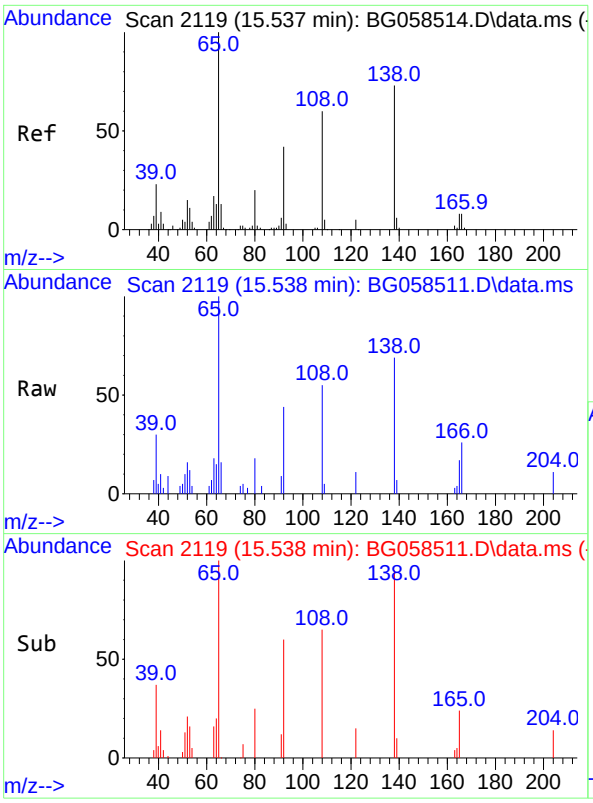


#61
4-Chlorophenyl-phenylether
Concen: 5.388 ng
RT: 15.503 min Scan# 2113
Delta R.T. 0.001 min
Lab File: BG058511.D
Acq: 28 Jul 2023 10:02

Tgt Ion:204 Resp: 34801

Ion	Ratio	Lower	Upper
204	100		
206	33.8	27.0	40.4
141	46.1	40.8	61.2

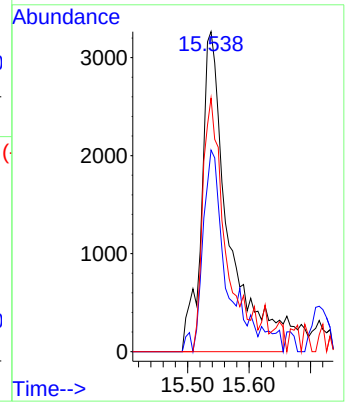




#62
4-Nitroaniline
Concen: 3.926 ng m
RT: 15.538 min Scan# 21
Delta R.T. 0.001 min
Lab File: BG058511.D
Acq: 28 Jul 2023 10:02

Tgt Ion:138 Resp: 996

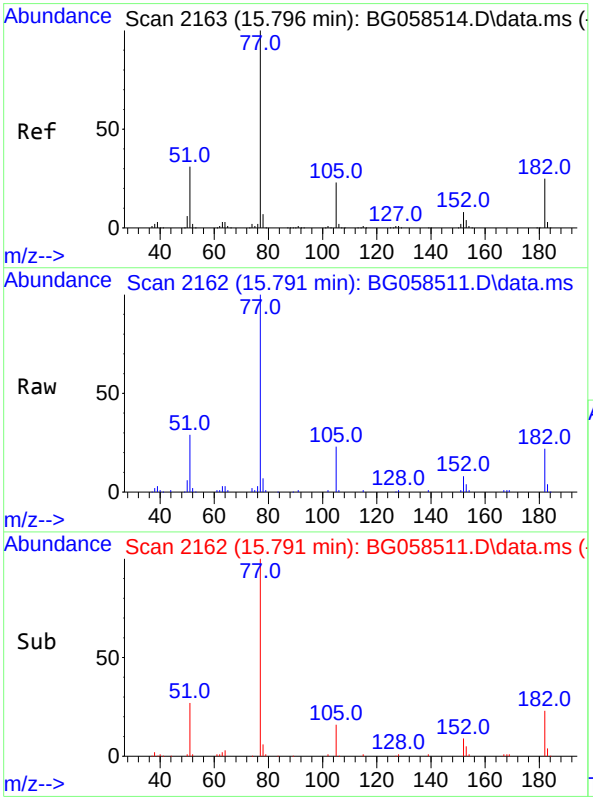
Ion	Ratio	Lower	Upper
138	100		
92	63.0	37.3	77.3
108	79.3	62.6	102.6



Instrument :
BNA_G
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

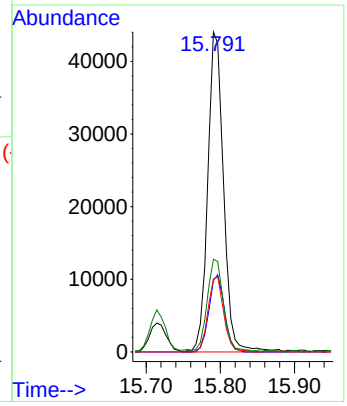
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

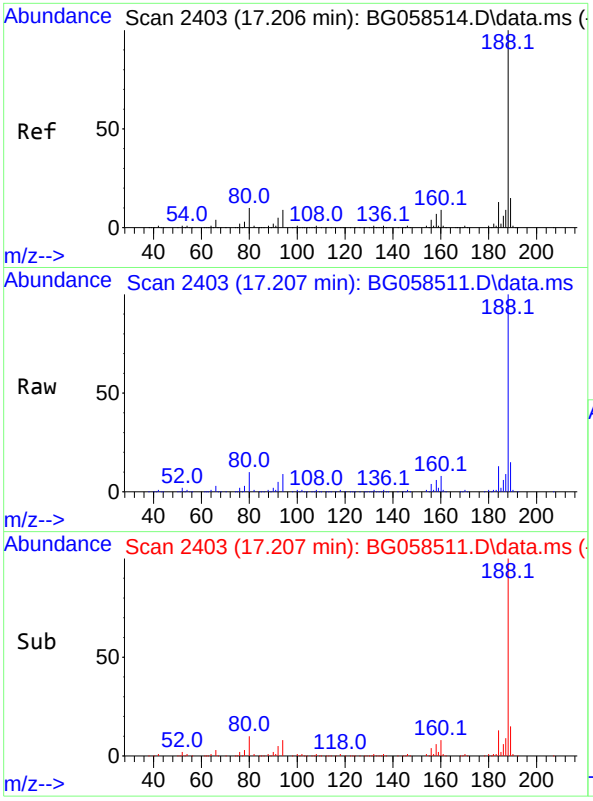


#63
Azobenzene
Concen: 5.288 ng
RT: 15.791 min Scan# 2162
Delta R.T. -0.005 min
Lab File: BG058511.D
Acq: 28 Jul 2023 10:02

Tgt Ion: 77 Resp: 65298

Ion	Ratio	Lower	Upper
77	100		
182	22.4	4.6	44.6
105	22.8	3.3	43.3
51	29.0	10.9	50.9

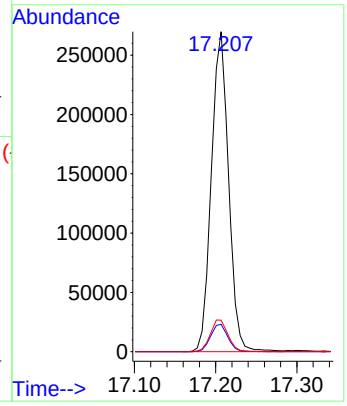




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.207 min Scan# 24
Delta R.T. 0.001 min
Lab File: BG058511.D
Acq: 28 Jul 2023 10:02

Tgt Ion:188 Resp: 396609

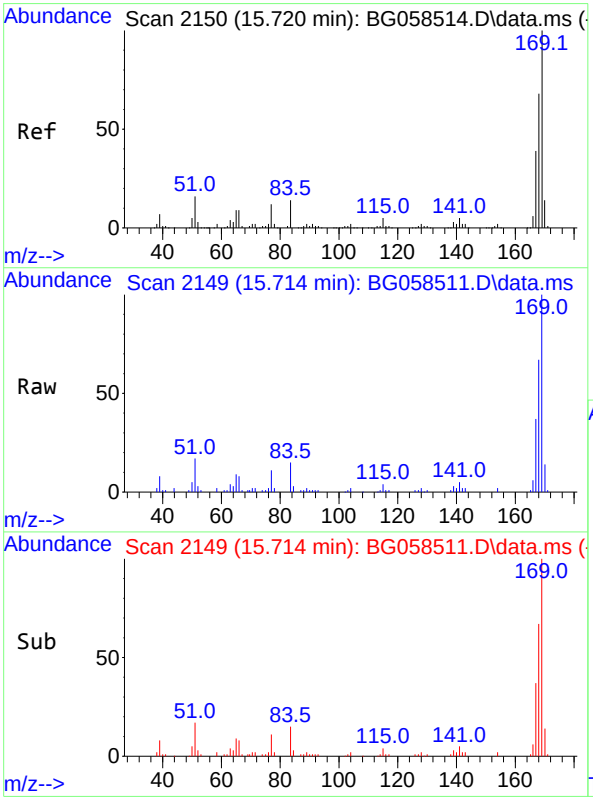
Ion	Ratio	Lower	Upper
188	100		
94	8.6	7.0	10.6
80	9.8	8.1	12.1



Instrument :
BNA_G
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

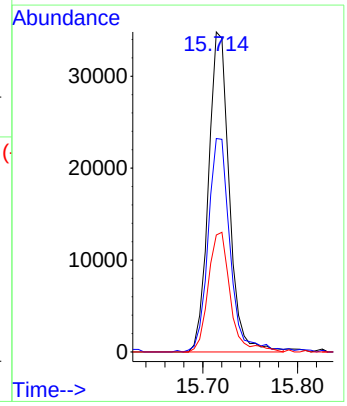
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

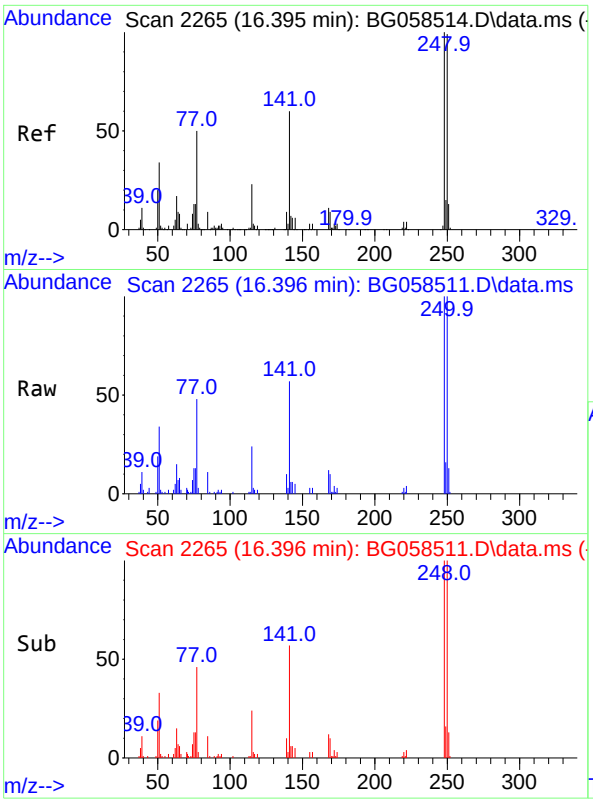


#66
n-Nitrosodiphenylamine
Concen: 5.119 ng
RT: 15.714 min Scan# 2149
Delta R.T. -0.005 min
Lab File: BG058511.D
Acq: 28 Jul 2023 10:02

Tgt Ion:169 Resp: 52845

Ion	Ratio	Lower	Upper
169	100		
168	66.7	54.6	82.0
167	36.5	31.3	46.9

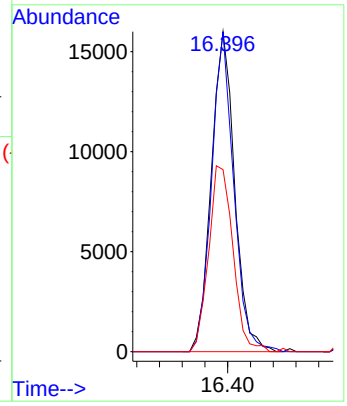




#67
4-Bromophenyl-phenylether
Concen: 5.068 ng
RT: 16.396 min Scan# 2
Delta R.T. 0.001 min
Lab File: BG058511.D
Acq: 28 Jul 2023 10:02

Tgt Ion:248 Resp: 2279

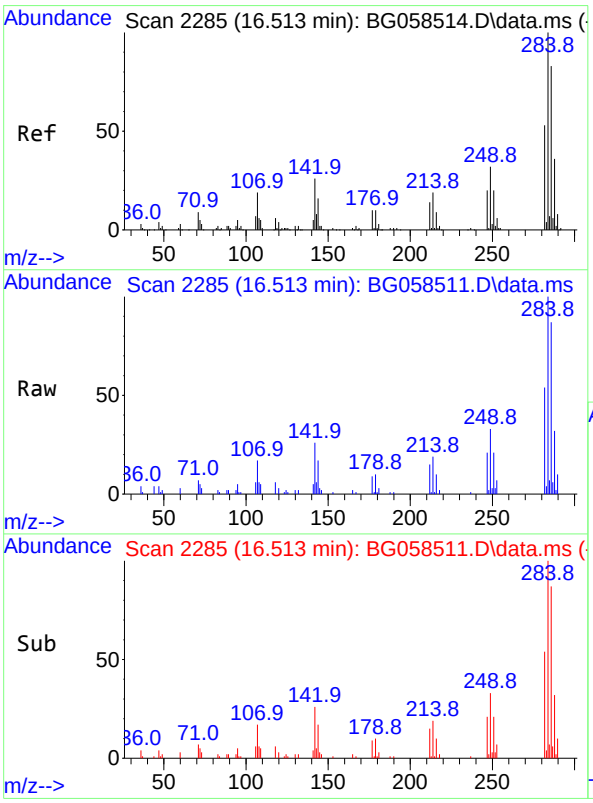
Ion	Ratio	Lower	Upper
248	100		
250	99.9	79.5	119.3
141	56.9	48.2	72.2



Instrument :
BNA_G
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

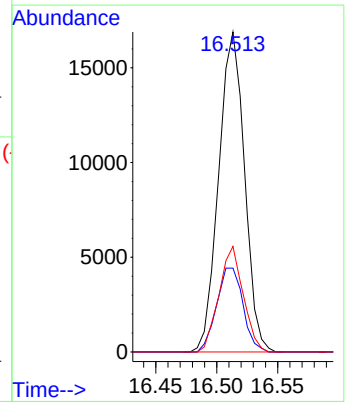
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

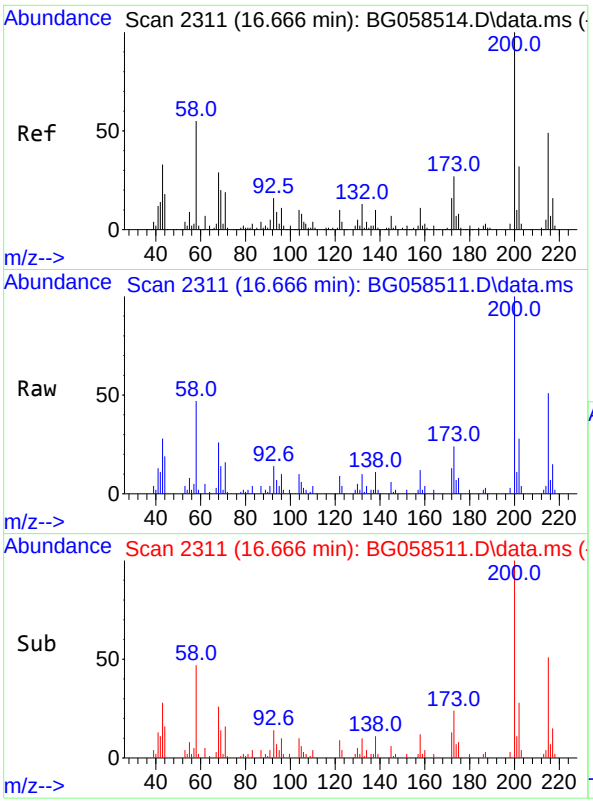


#68
Hexachlorobenzene
Concen: 5.225 ng
RT: 16.513 min Scan# 2285
Delta R.T. 0.001 min
Lab File: BG058511.D
Acq: 28 Jul 2023 10:02

Tgt Ion:284 Resp: 24904

Ion	Ratio	Lower	Upper
284	100		
142	26.2	21.0	31.4
249	33.0	25.5	38.3

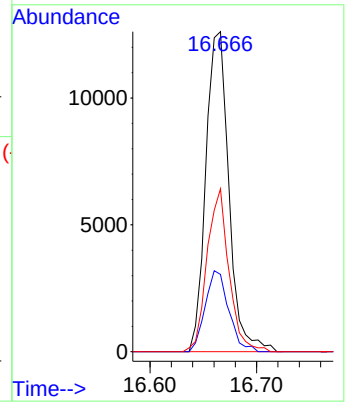




#69
Atrazine
Concen: 5.441 ng
RT: 16.666 min Scan# 2
Delta R.T. 0.001 min
Lab File: BG058511.D
Acq: 28 Jul 2023 10:02

Tgt Ion:200 Resp: 1896

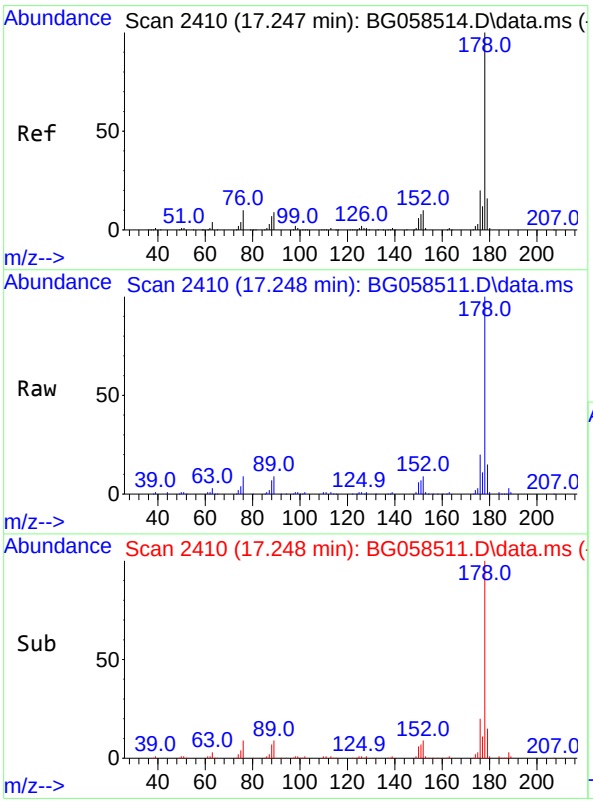
Ion	Ratio	Lower	Upper
200	100		
173	24.2	6.5	46.5
215	50.9	28.9	68.9



Instrument :
BNA_G
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

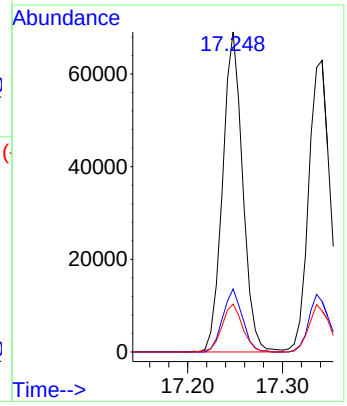
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

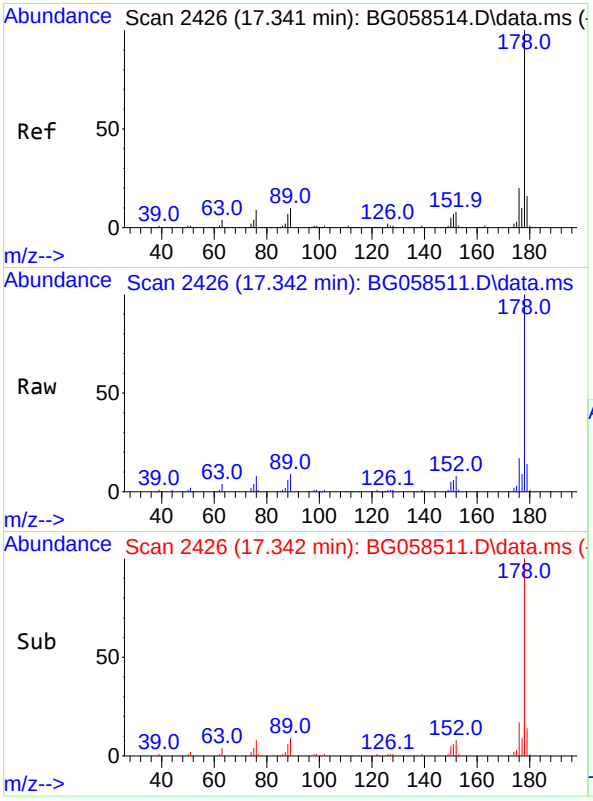


#71
Phenanthrene
Concen: 5.397 ng
RT: 17.248 min Scan# 2410
Delta R.T. 0.001 min
Lab File: BG058511.D
Acq: 28 Jul 2023 10:02

Tgt Ion:178 Resp: 101519

Ion	Ratio	Lower	Upper
178	100		
176	19.7	16.3	24.5
179	15.0	13.1	19.7

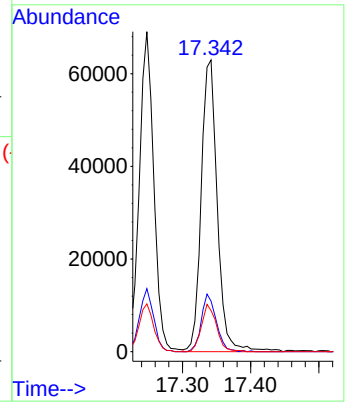




#72
Anthracene
Concen: 5.346 ng
RT: 17.342 min Scan# 24
Delta R.T. 0.001 min
Lab File: BG058511.D
Acq: 28 Jul 2023 10:02

Tgt Ion:178 Resp: 10317

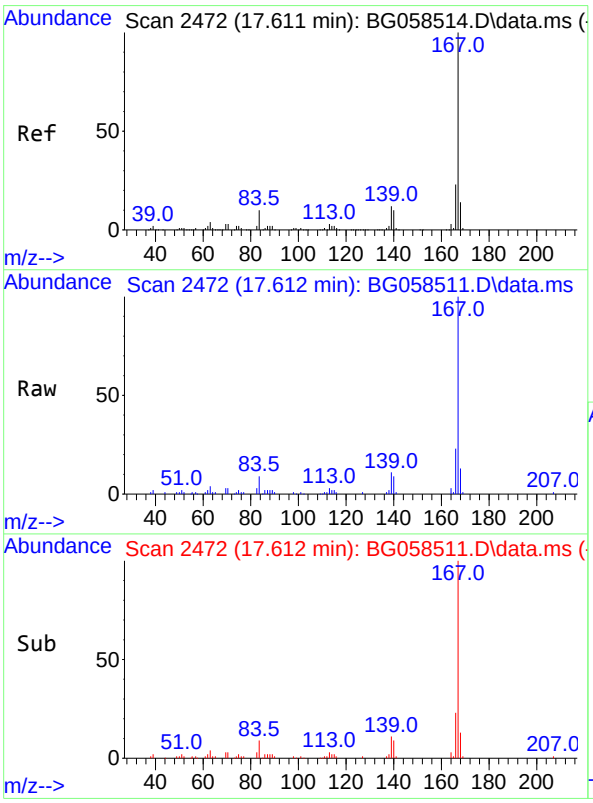
Ion	Ratio	Lower	Upper
178	100		
176	17.3	16.0	24.0
179	14.1	12.9	19.3



Instrument :
BNA_G
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

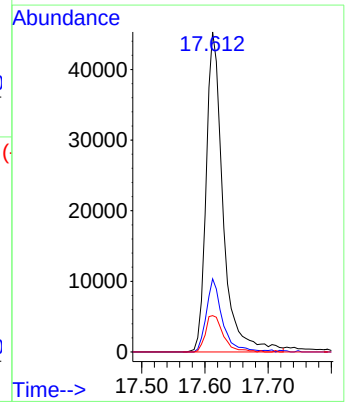
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

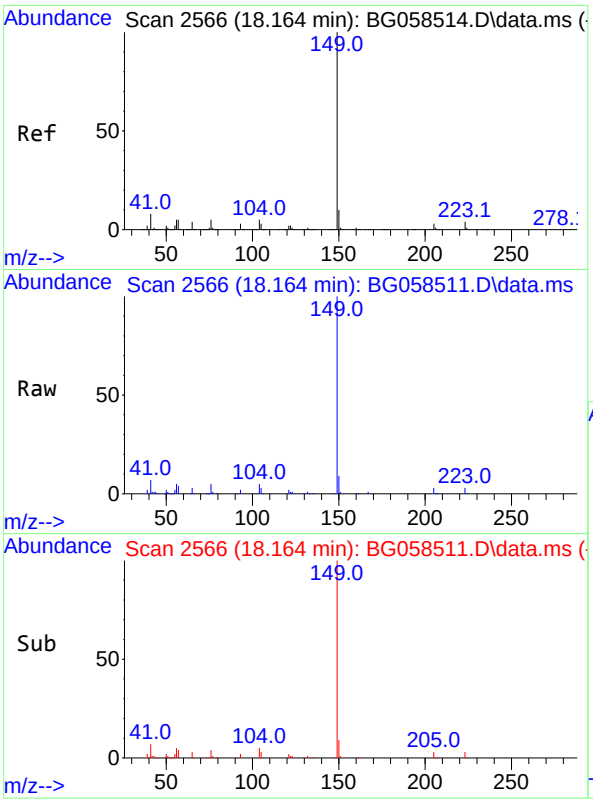


#73
Carbazole
Concen: 4.931 ng
RT: 17.612 min Scan# 2472
Delta R.T. 0.001 min
Lab File: BG058511.D
Acq: 28 Jul 2023 10:02

Tgt Ion:167 Resp: 83919

Ion	Ratio	Lower	Upper
167	100		
166	22.8	18.4	27.6
139	11.3	10.0	15.0

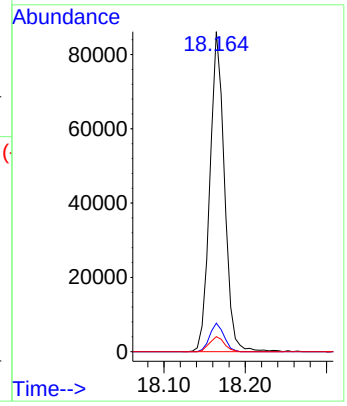




#74
Di-n-butylphthalate
Concen: 5.022 ng
RT: 18.164 min Scan# 2
Delta R.T. 0.001 min
Lab File: BG058511.D
Acq: 28 Jul 2023 10:02

Tgt Ion:149 Resp: 10705

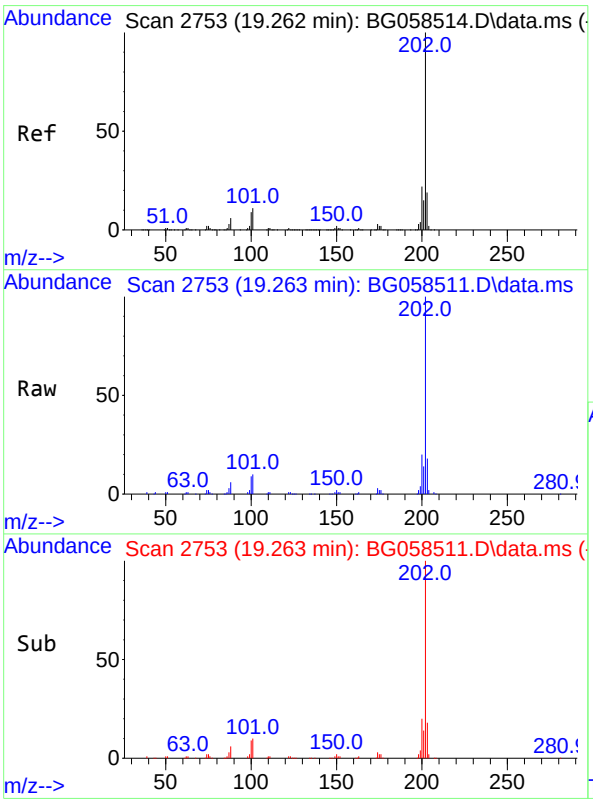
Ion	Ratio	Lower	Upper
149	100		
150	8.9	7.8	11.6
104	4.7	4.0	6.0



Instrument :
BNA_G
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

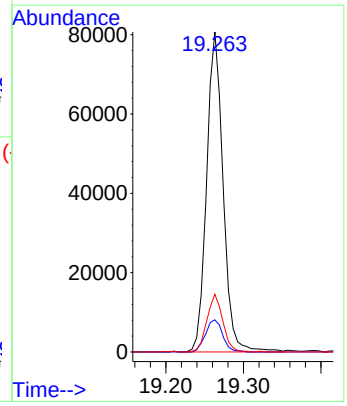
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

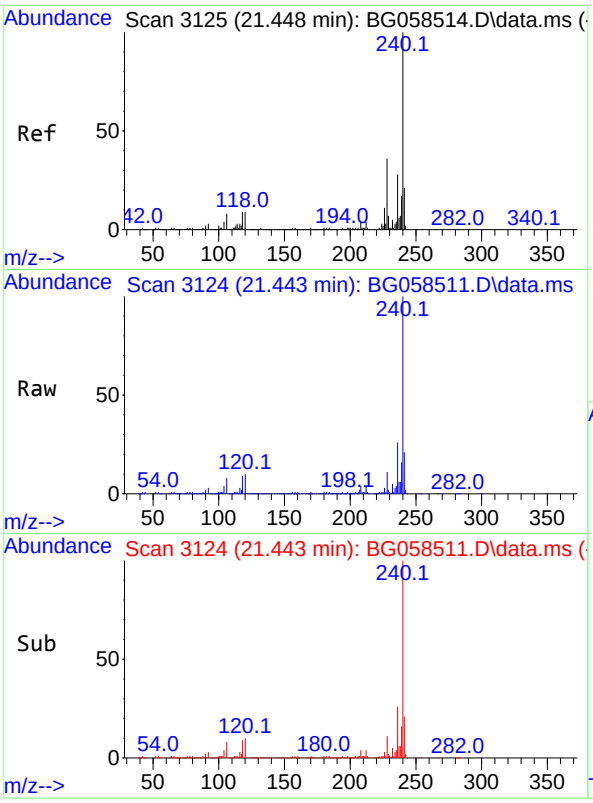


#75
Fluoranthene
Concen: 5.274 ng
RT: 19.263 min Scan# 2753
Delta R.T. 0.001 min
Lab File: BG058511.D
Acq: 28 Jul 2023 10:02

Tgt Ion:202 Resp: 119152

Ion	Ratio	Lower	Upper
202	100		
101	10.0	0.0	31.4
203	18.1	0.0	39.0

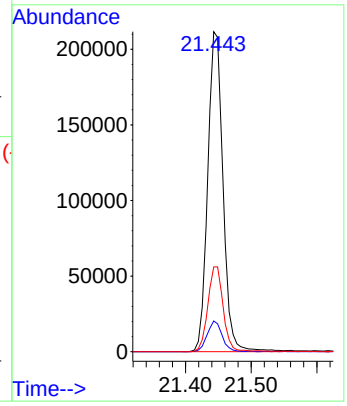




#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.443 min Scan# 3
Delta R.T. -0.005 min
Lab File: BG058511.D
Acq: 28 Jul 2023 10:02

Tgt Ion:240 Resp: 34341

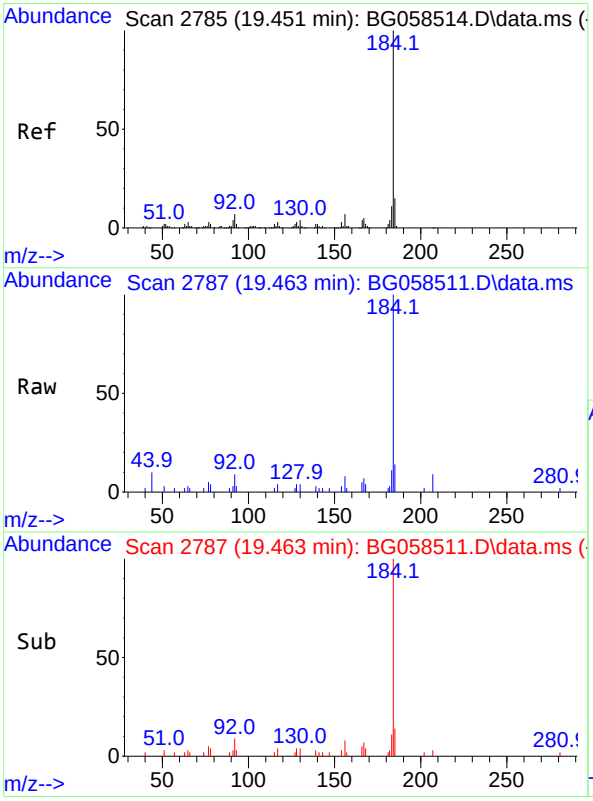
Ion	Ratio	Lower	Upper
240	100		
120	9.6	7.4	11.0
236	26.5	22.2	33.4



Instrument :
BNA_G
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

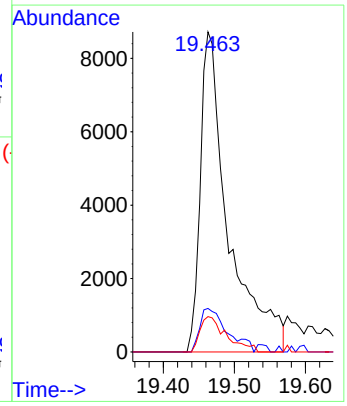
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

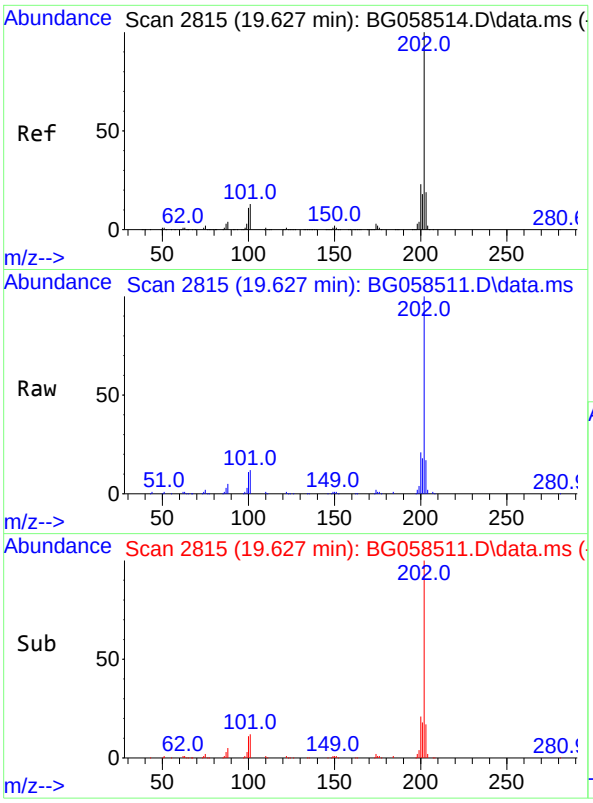


#77
Benzidine
Concen: 4.601 ng
RT: 19.463 min Scan# 2787
Delta R.T. 0.012 min
Lab File: BG058511.D
Acq: 28 Jul 2023 10:02

Tgt Ion:184 Resp: 23958

Ion	Ratio	Lower	Upper
184	100		
185	13.6	11.9	17.9
183	11.1	8.7	13.1

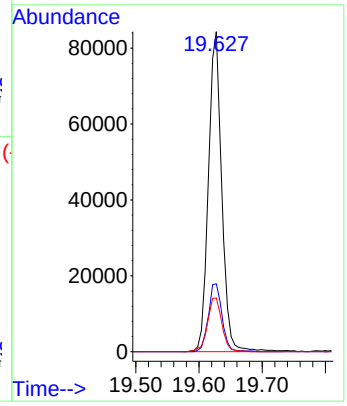




#78
Pyrene
Concen: 5.284 ng
RT: 19.627 min Scan# 2
Delta R.T. 0.001 min
Lab File: BG058511.D
Acq: 28 Jul 2023 10:02

Tgt Ion:202 Resp: 12349

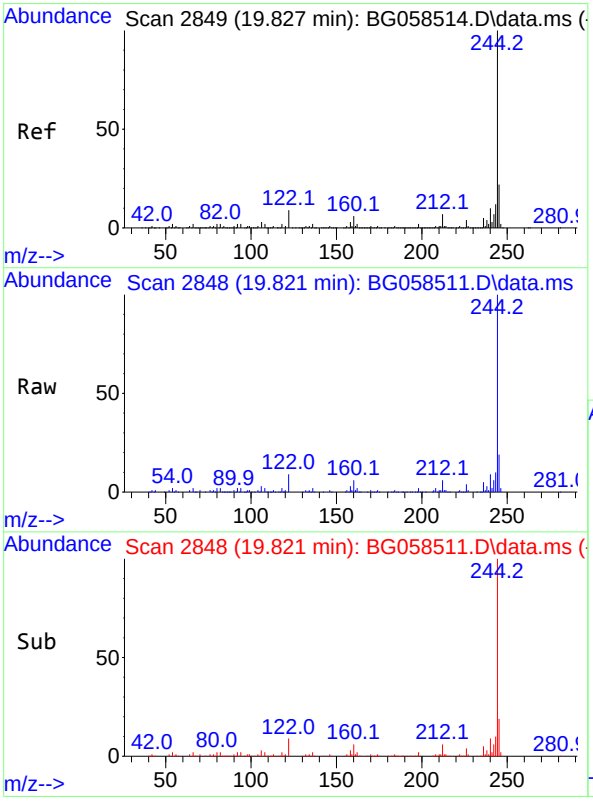
Ion	Ratio	Lower	Upper
202	100		
200	21.2	18.2	27.2
203	16.8	15.1	22.7



Instrument :
BNA_G
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

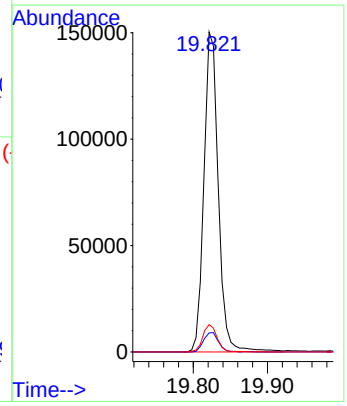
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

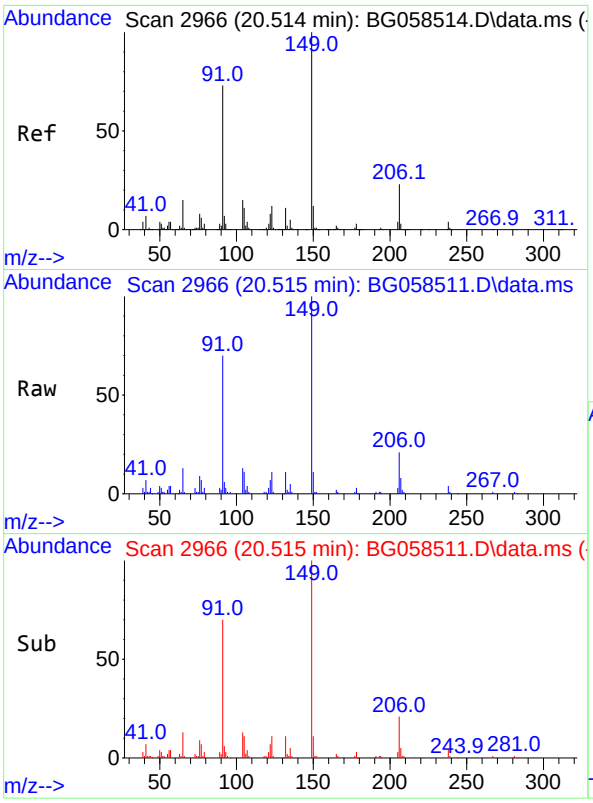


#79
Terphenyl-d14
Concen: 11.076 ng
RT: 19.821 min Scan# 2848
Delta R.T. -0.005 min
Lab File: BG058511.D
Acq: 28 Jul 2023 10:02

Tgt Ion:244 Resp: 202262

Ion	Ratio	Lower	Upper
244	100		
212	5.9	5.9	8.9
122	8.5	6.8	10.2

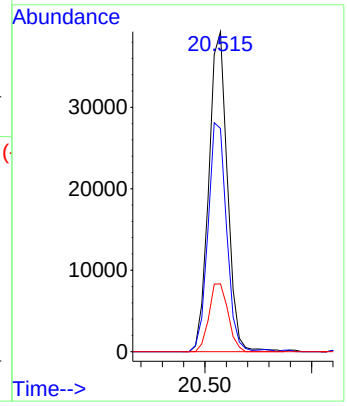




#80
Butylbenzylphthalate
Concen: 4.954 ng
RT: 20.515 min Scan# 2
Delta R.T. 0.001 min
Lab File: BG058511.D
Acq: 28 Jul 2023 10:02

Tgt Ion:149 Resp: 4755

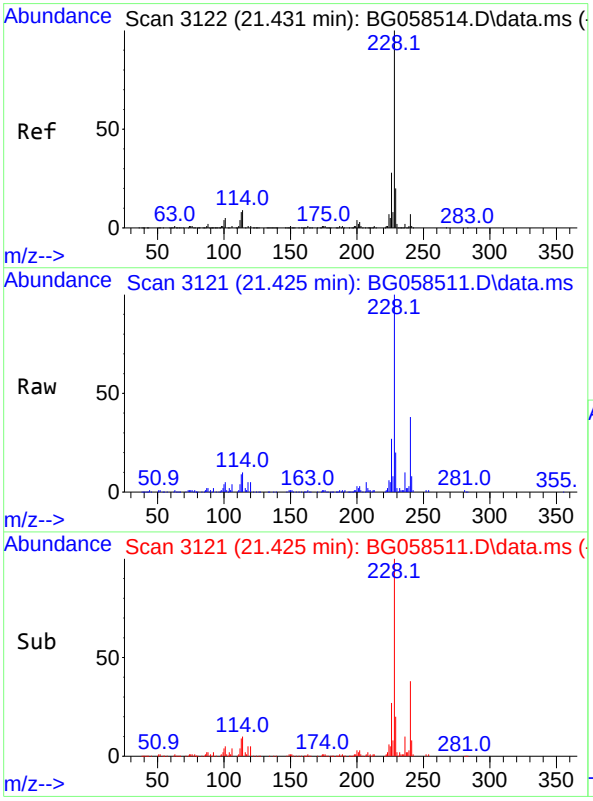
Ion	Ratio	Lower	Upper
149	100		
91	69.7	58.4	87.6
206	21.2	18.3	27.5



Instrument :
BNA_G
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

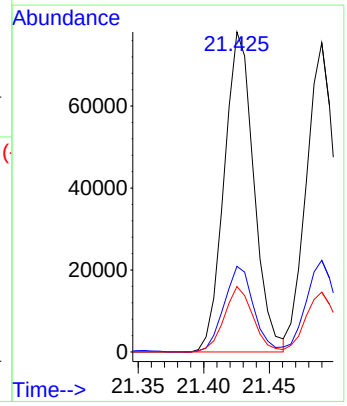
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

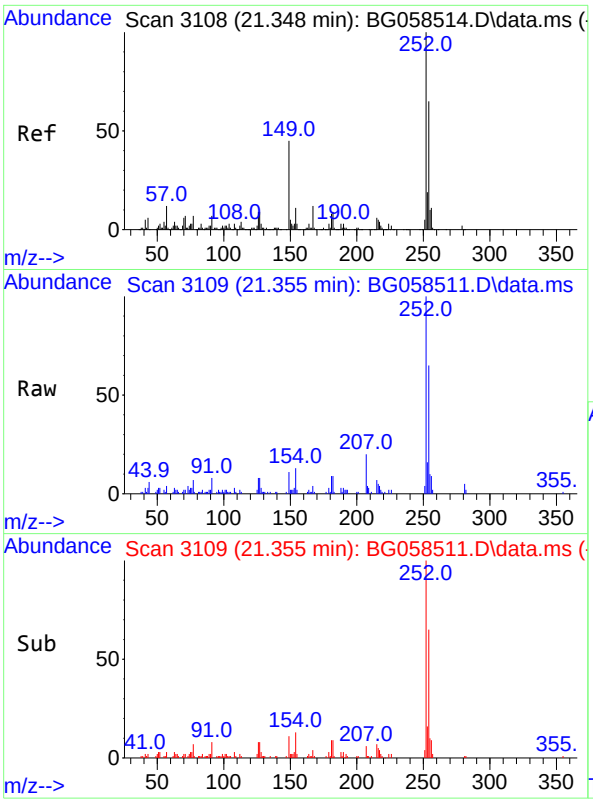


#81
Benzo(a)anthracene
Concen: 5.195 ng
RT: 21.425 min Scan# 3121
Delta R.T. -0.005 min
Lab File: BG058511.D
Acq: 28 Jul 2023 10:02

Tgt Ion:228 Resp: 122787

Ion	Ratio	Lower	Upper
228	100		
226	26.7	22.6	33.8
229	20.5	16.3	24.5

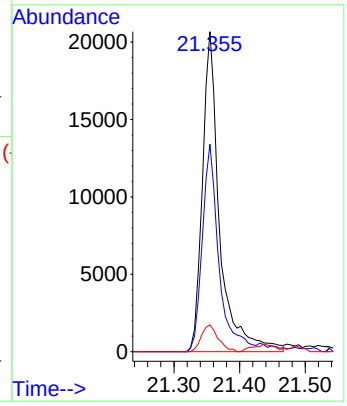




#82
3,3'-Dichlorobenzidine
Concen: 4.728 ng
RT: 21.355 min Scan# 3
Delta R.T. 0.006 min
Lab File: BG058511.D
Acq: 28 Jul 2023 10:02

Tgt Ion:252 Resp: 3778

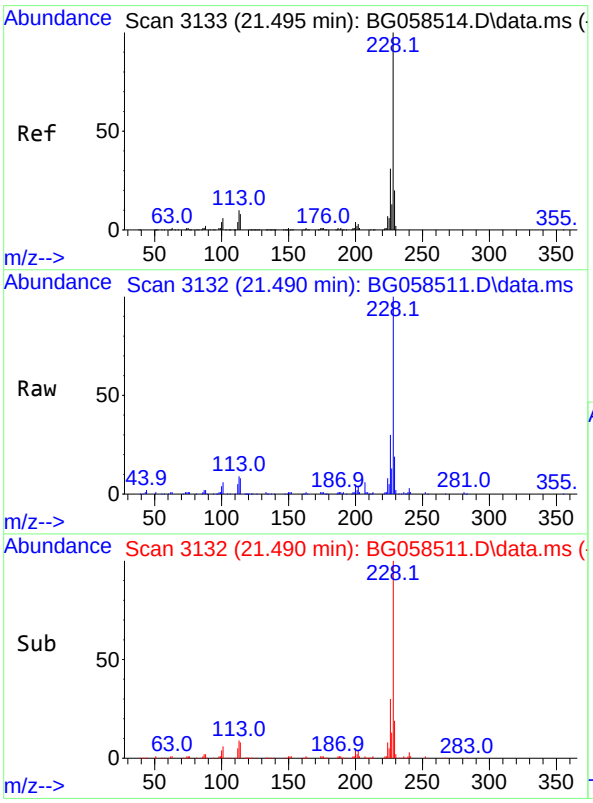
Ion	Ratio	Lower	Upper
252	100		
254	64.8	52.2	78.4
126	8.3	7.2	10.8



Instrument :
BNA_G
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

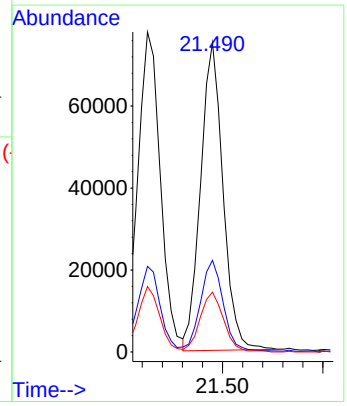
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

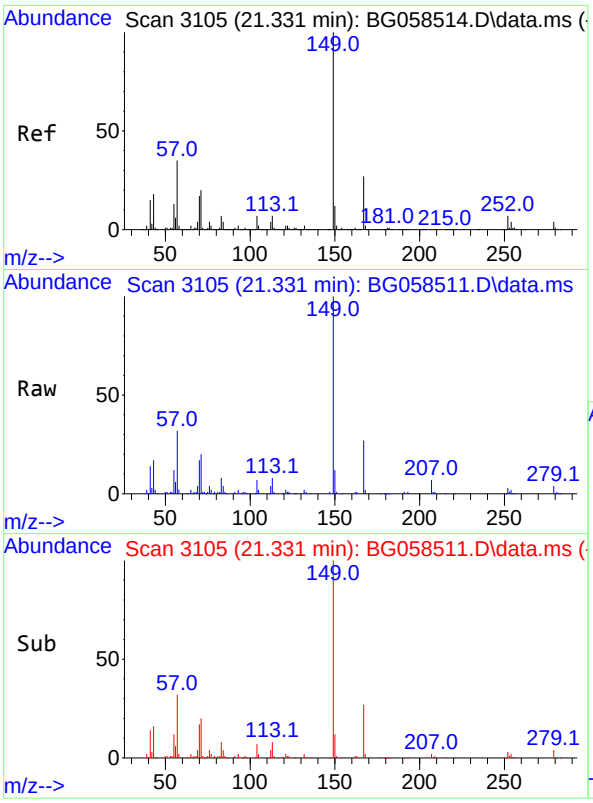


#83
Chrysene
Concen: 5.156 ng
RT: 21.490 min Scan# 3132
Delta R.T. -0.005 min
Lab File: BG058511.D
Acq: 28 Jul 2023 10:02

Tgt Ion:228 Resp: 116841

Ion	Ratio	Lower	Upper
228	100		
226	29.7	25.0	37.6
229	19.4	16.3	24.5

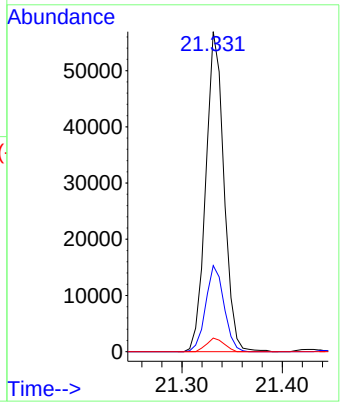




#84
Bis(2-ethylhexyl)phthalate
Concen: 5.103 ng
RT: 21.331 min Scan# 3
Delta R.T. 0.001 min
Lab File: BG058511.D
Acq: 28 Jul 2023 10:02

Tgt Ion:149 Resp: 7159

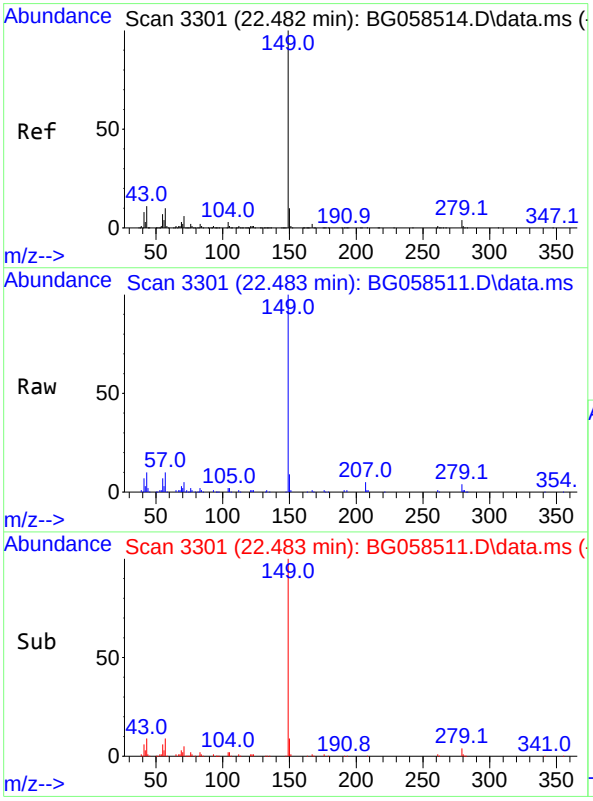
Ion	Ratio	Lower	Upper
149	100		
167	26.9	21.8	32.8
279	4.2	2.9	4.3



Instrument :
BNA_G
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

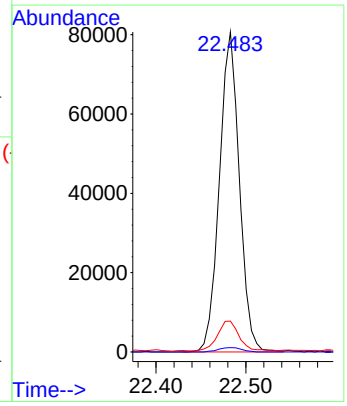
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

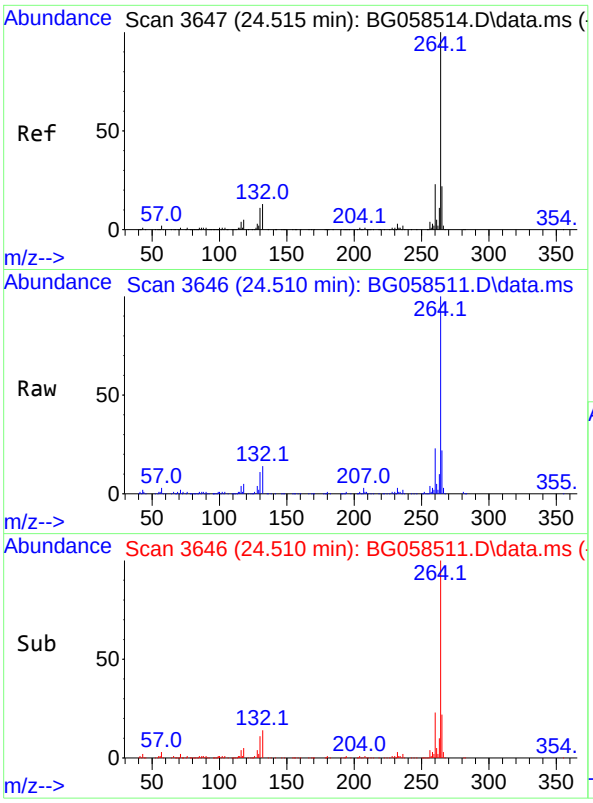


#85
Di-n-octyl phthalate
Concen: 5.046 ng
RT: 22.483 min Scan# 3301
Delta R.T. 0.001 min
Lab File: BG058511.D
Acq: 28 Jul 2023 10:02

Tgt Ion:149 Resp: 124461

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	10.1	8.2	12.2

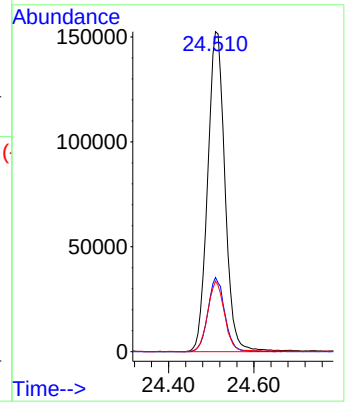




#86
Perylene-d12
Concen: 20.000 ng
RT: 24.510 min Scan# 3
Delta R.T. -0.005 min
Lab File: BG058511.D
Acq: 28 Jul 2023 10:02

Tgt Ion:264 Resp: 42889

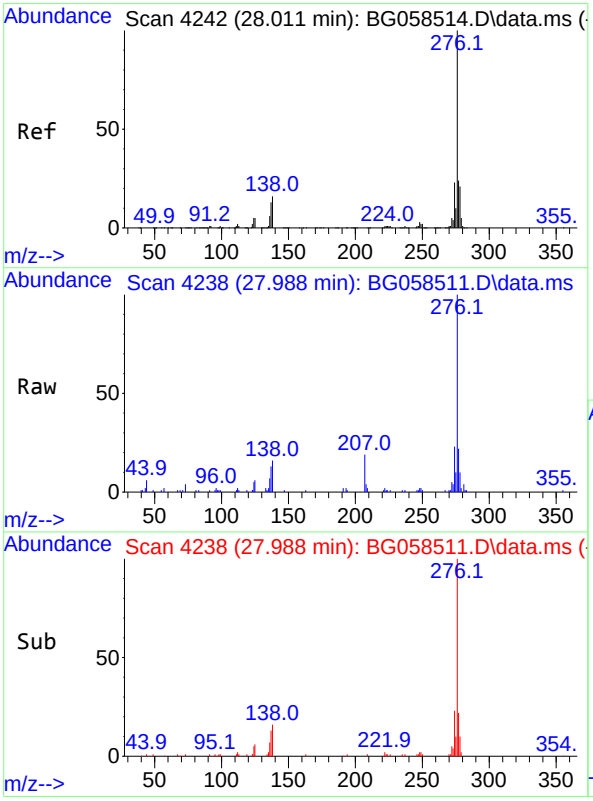
Ion	Ratio	Lower	Upper
264	100		
260	23.2	18.4	27.6
265	22.0	17.9	26.9



Instrument :
BNA_G
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

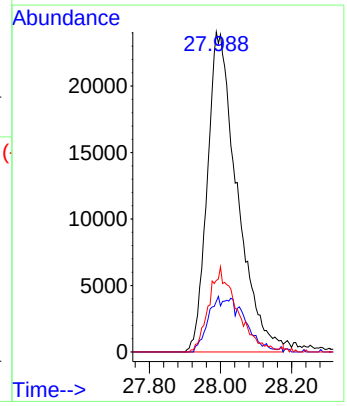
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

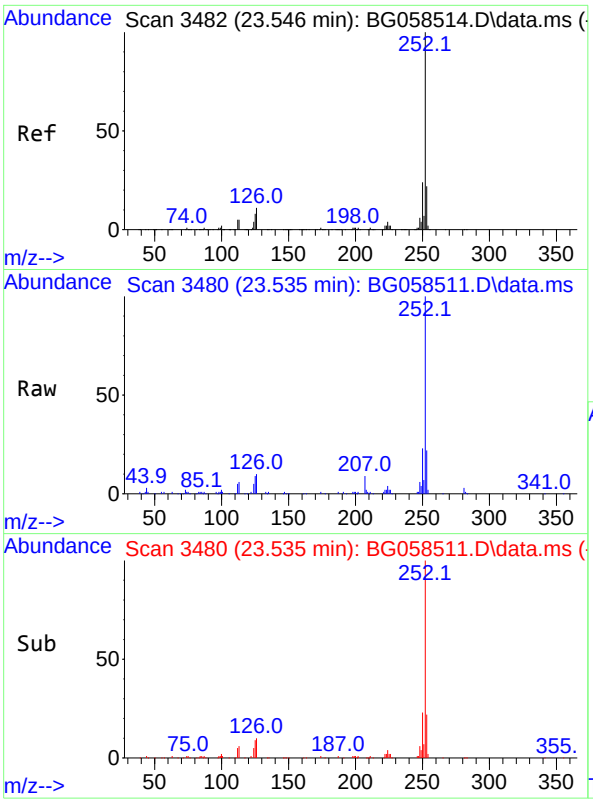


#87
Indeno(1,2,3-cd)pyrene
Concen: 4.913 ng
RT: 27.988 min Scan# 4238
Delta R.T. -0.023 min
Lab File: BG058511.D
Acq: 28 Jul 2023 10:02

Tgt Ion:276 Resp: 140191

Ion	Ratio	Lower	Upper
276	100		
138	7.5	16.0	24.0#
277	25.1	20.4	30.6

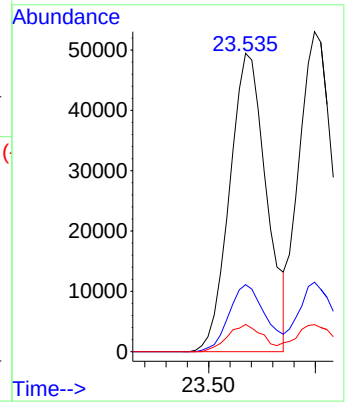




#88
Benzo(b)fluoranthene
Concen: 5.110 ng
RT: 23.535 min Scan# 34
Delta R.T. -0.011 min
Lab File: BG058511.D
Acq: 28 Jul 2023 10:02

Tgt Ion:252 Resp: 11887

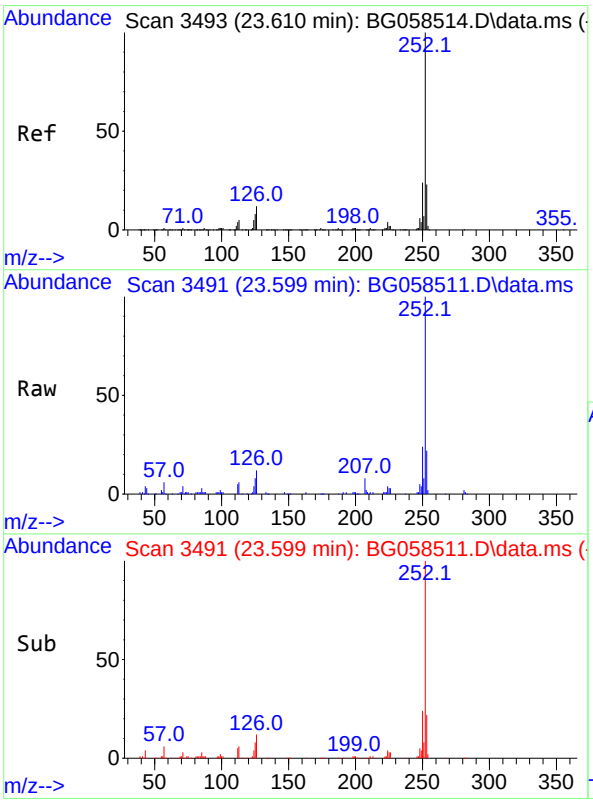
Ion	Ratio	Lower	Upper
252	100		
253	22.5	17.8	26.8
125	9.1	6.6	9.8



Instrument :
BNA_G
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

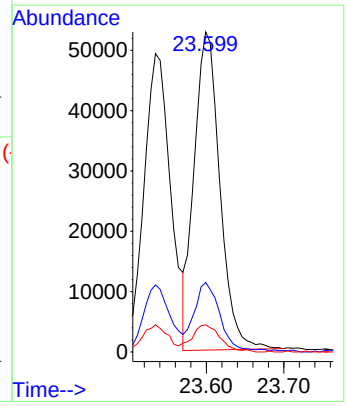
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

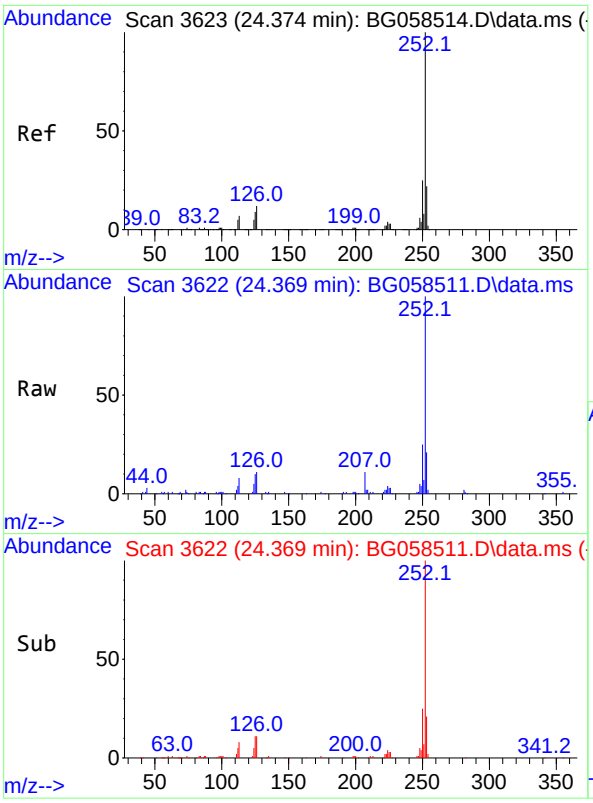


#89
Benzo(k)fluoranthene
Concen: 5.201 ng
RT: 23.599 min Scan# 3491
Delta R.T. -0.011 min
Lab File: BG058511.D
Acq: 28 Jul 2023 10:02

Tgt Ion:252 Resp: 121536

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.9	26.9
125	8.4	6.6	10.0

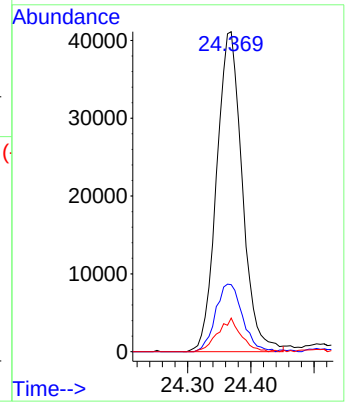




#90
Benzo(a)pyrene
Concen: 5.067 ng
RT: 24.369 min Scan# 3
Delta R.T. -0.005 min
Lab File: BG058511.D
Acq: 28 Jul 2023 10:02

Tgt Ion:252 Resp: 11574

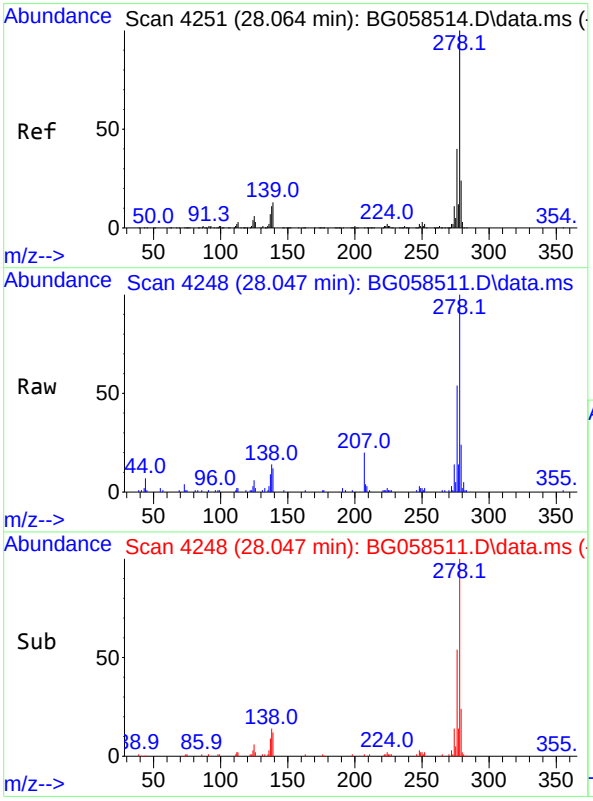
Ion	Ratio	Lower	Upper
252	100		
253	20.9	17.5	26.3
125	10.5	7.4	11.2



Instrument :
BNA_G
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

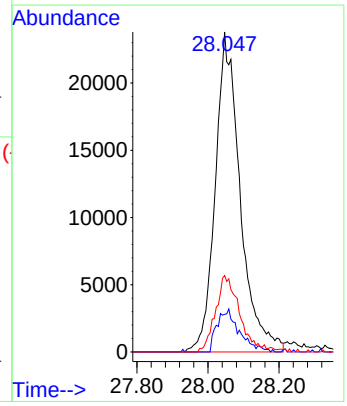
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

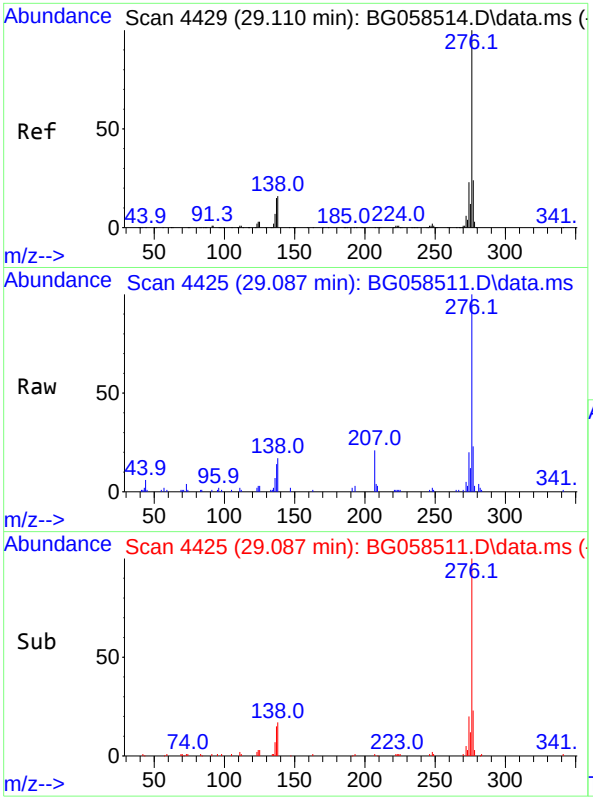


#91
Dibenzo(a,h)anthracene
Concen: 4.893 ng
RT: 28.047 min Scan# 4248
Delta R.T. -0.017 min
Lab File: BG058511.D
Acq: 28 Jul 2023 10:02

Tgt Ion:278 Resp: 115452

Ion	Ratio	Lower	Upper
278	100		
139	11.8	10.4	15.6
279	23.9	19.0	28.6

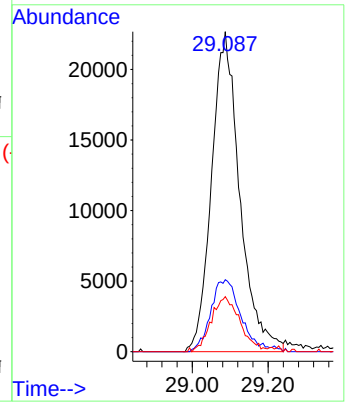




#92
Benzo(g,h,i)perylene
Concen: 4.937 ng
RT: 29.087 min Scan# 4
Delta R.T. -0.023 min
Lab File: BG058511.D
Acq: 28 Jul 2023 10:02

Tgt Ion:276 Resp: 11680

Ion	Ratio	Lower	Upper
276	100		
277	22.5	18.9	28.3
138	17.2	13.0	19.4



Instrument :
BNA_G
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG072823\
Data File : BG058512.D
Acq On : 28 Jul 2023 10:43
Operator : MA/JU
Sample : SSTDICC010
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

Quant Time: Jul 28 16:58:18 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 28 16:53:40 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.814	152	51180	20.000	ng		0.00
21) Naphthalene-d8	10.616	136	211861	20.000	ng		0.00
39) Acenaphthene-d10	14.465	164	150019	20.000	ng		0.00
64) Phenanthrene-d10	17.208	188	375234	20.000	ng		0.00
76) Chrysene-d12	21.451	240	335801	20.000	ng		0.00
86) Perylene-d12	24.517	264	423954	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.381	112	71102	21.234	ng		0.00
7) Phenol-d6	6.979	99	95711	20.542	ng		0.00
23) Nitrobenzene-d5	8.977	82	86050	19.953	ng		0.00
42) 2,4,6-Tribromophenol	15.951	330	51622	20.994	ng		0.00
45) 2-Fluorobiphenyl	13.078	172	214347	21.412	ng		0.00
79) Terphenyl-d14	19.823	244	392610	21.987	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.272	88	18084	11.145	ng		94
3) Pyridine	3.671	79	45207	10.219	ng		94
4) n-Nitrosodimethylamine	3.589	42	19494	10.400	ng		95
6) Aniline	7.138	93	58046	10.119	ng		98
8) 2-Chlorophenol	7.379	128	34012	10.354	ng		99
9) Benzaldehyde	6.956	77	29808	11.775	ng		98
10) Phenol	7.009	94	47513	10.439	ng		94
11) bis(2-Chloroethyl)ether	7.238	93	37225	10.374	ng		98
12) 1,3-Dichlorobenzene	7.702	146	37251	10.620	ng		96
13) 1,4-Dichlorobenzene	7.849	146	37001	10.506	ng		97
14) 1,2-Dichlorobenzene	8.166	146	36319	10.786	ng		98
15) Benzyl Alcohol	8.054	79	28103	9.511	ng		95
16) 2,2'-oxybis(1-Chloropr...	8.342	45	61269m	10.512	ng		
17) 2-Methylphenol	8.260	107	35282	10.602	ng		99
18) Hexachloroethane	8.889	117	13374	10.447	ng		92
19) n-Nitroso-di-n-propyla...	8.613	70	31070	10.324	ng		97
20) 3+4-Methylphenols	8.589	107	44641	9.917	ng		98
22) Acetophenone	8.636	105	57091	10.064	ng	#	98
24) Nitrobenzene	9.018	77	45243	10.319	ng		94
25) Isophorone	9.535	82	91963	10.320	ng		99
26) 2-Nitrophenol	9.729	139	18206	9.539	ng		94
27) 2,4-Dimethylphenol	9.788	122	31252	9.872	ng		98
28) bis(2-Chloroethoxy)met...	10.023	93	49446	10.197	ng		97
29) 2,4-Dichlorophenol	10.270	162	32349	9.842	ng		98
30) 1,2,4-Trichlorobenzene	10.475	180	38488	10.153	ng		92
31) Naphthalene	10.669	128	117345	10.509	ng		99
32) Benzoic acid	9.888	122	13793m	9.093	ng		
33) 4-Chloroaniline	10.781	127	45877	9.724	ng		96
34) Hexachlorobutadiene	10.945	225	24210	9.917	ng		98
35) Caprolactam	11.533	113	12803	10.548	ng		93
36) 4-Chloro-3-methylphenol	11.909	107	41067	10.100	ng		95
37) 2-Methylnaphthalene	12.279	142	82278	10.301	ng		100
38) 1-Methylnaphthalene	12.502	142	81055	10.675	ng		99
40) 1,2,4,5-Tetrachloroben...	12.649	216	46739	10.148	ng		99
41) Hexachlorocyclopentadiene	12.626	237	10104	11.134	ng		99
43) 2,4,6-Trichlorophenol	12.896	196	31029	9.795	ng		98

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG072823\
Data File : BG058512.D
Acq On : 28 Jul 2023 10:43
Operator : MA/JU
Sample : SSTDICC010
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 28 16:58:18 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 28 16:53:40 2023
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	12.972	196	39113	10.482	ng		95
46) 1,1'-Biphenyl	13.295	154	106922	10.378	ng		97
47) 2-Chloronaphthalene	13.336	162	82685	10.293	ng		99
48) 2-Nitroaniline	13.542	65	28870	9.416	ng		99
49) Acenaphthylene	14.183	152	140733	10.464	ng		98
50) Dimethylphthalate	13.912	163	118739	10.539	ng		100
51) 2,6-Dinitrotoluene	14.036	165	25360	10.258	ng		98
52) Acenaphthene	14.523	154	80755	10.392	ng		95
53) 3-Nitroaniline	14.371	138	23651	9.562	ng		99
54) 2,4-Dinitrophenol	14.594	184	5669	11.172	ng		90
55) Dibenzofuran	14.858	168	144844	10.847	ng		98
56) 4-Nitrophenol	14.694	139	12064m	9.999	ng		
57) 2,4-Dinitrotoluene	14.829	165	34925	10.190	ng		99
58) Fluorene	15.510	166	116110	10.946	ng		98
59) 2,3,4,6-Tetrachlorophenol	15.087	232	32818	10.307	ng		99
60) Diethylphthalate	15.275	149	125829	10.963	ng		98
61) 4-Chlorophenyl-phenyle...	15.499	204	62559	10.578	ng		96
62) 4-Nitroaniline	15.534	138	23288	10.019	ng		98
63) Azobenzene	15.792	77	121170	10.718	ng		98
65) 4,6-Dinitro-2-methylph...	15.599	198	15627	7.553	ng		95
66) n-Nitrosodiphenylamine	15.716	169	100318	10.272	ng		99
67) 4-Bromophenyl-phenylether	16.398	248	43083	10.123	ng		97
68) Hexachlorobenzene	16.509	284	45910	10.180	ng		98
69) Atrazine	16.662	200	36870	11.183	ng		99
70) Pentachlorophenol	16.868	266	20593m	7.578	ng		
71) Phenanthrene	17.250	178	191169	10.743	ng		98
72) Anthracene	17.338	178	195447	10.704	ng		98
73) Carbazole	17.614	167	171312	10.639	ng		99
74) Di-n-butylphthalate	18.166	149	218357	10.827	ng		99
75) Fluoranthene	19.265	202	233497	10.923	ng		97
77) Benzidine	19.459	184	50812	9.979	ng	#	94
78) Pyrene	19.629	202	244024	10.678	ng		97
80) Butylbenzylphthalate	20.510	149	95359	10.158	ng		100
81) Benzo(a)anthracene	21.427	228	242270	10.484	ng		97
82) 3,3'-Dichlorobenzidine	21.351	252	80310	10.278	ng		97
83) Chrysene	21.492	228	234534	10.585	ng		99
84) Bis(2-ethylhexyl)phtha...	21.333	149	142495	10.388	ng		99
85) Di-n-octyl phthalate	22.485	149	246121	10.205	ng		100
87) Indeno(1,2,3-cd)pyrene	28.008	276	285853	10.135	ng		99
88) Benzo(b)fluoranthene	23.542	252	236706	10.294	ng		98
89) Benzo(k)fluoranthene	23.601	252	241412	10.451	ng		98
90) Benzo(a)pyrene	24.371	252	230222	10.195	ng		98
91) Dibenzo(a,h)anthracene	28.060	278	238999	10.248	ng		98
92) Benzo(g,h,i)perylene	29.089	276	237798	10.169	ng		99

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

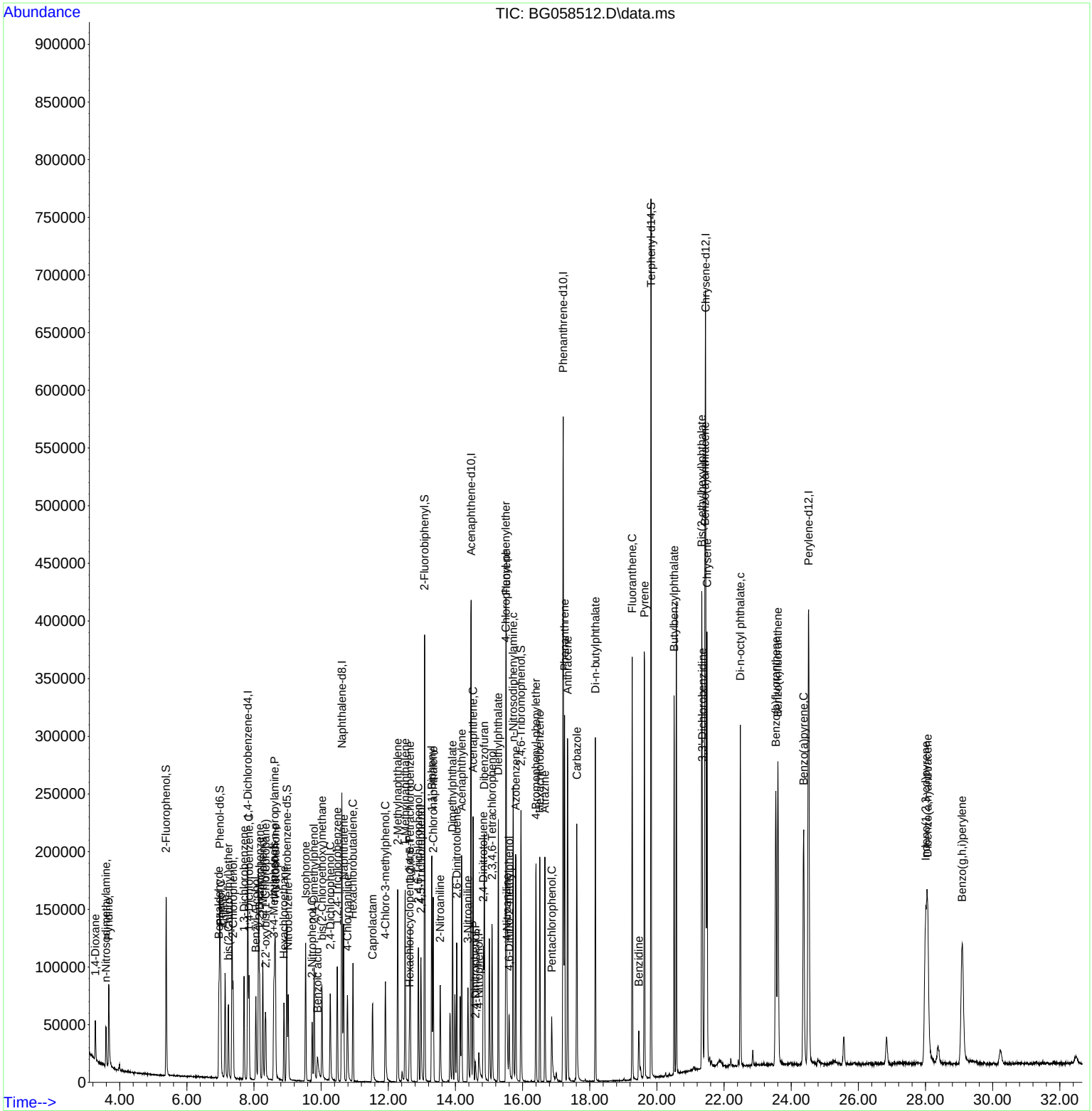
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG072823\
Data File : BG058512.D
Acq On : 28 Jul 2023 10:43
Operator : MA/JU
Sample : SSTDICC010
Misc :
ALS Vial : 4 Sample Multiplier: 1

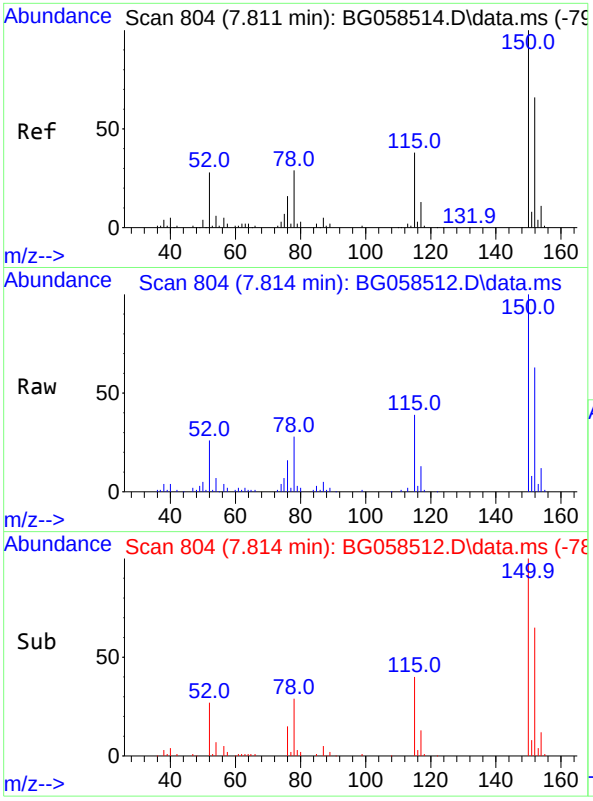
Quant Time: Jul 28 16:58:18 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 28 16:53:40 2023
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

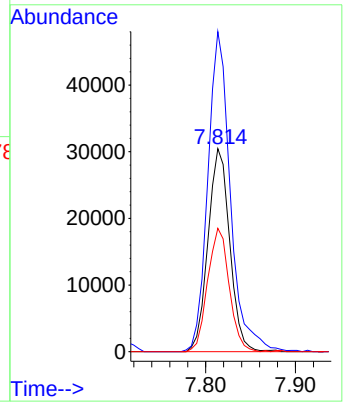




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.814 min Scan# 8(
Delta R.T. 0.003 min
Lab File: BG058512.D
Acq: 28 Jul 2023 10:43

Tgt Ion:152 Resp: 5118(

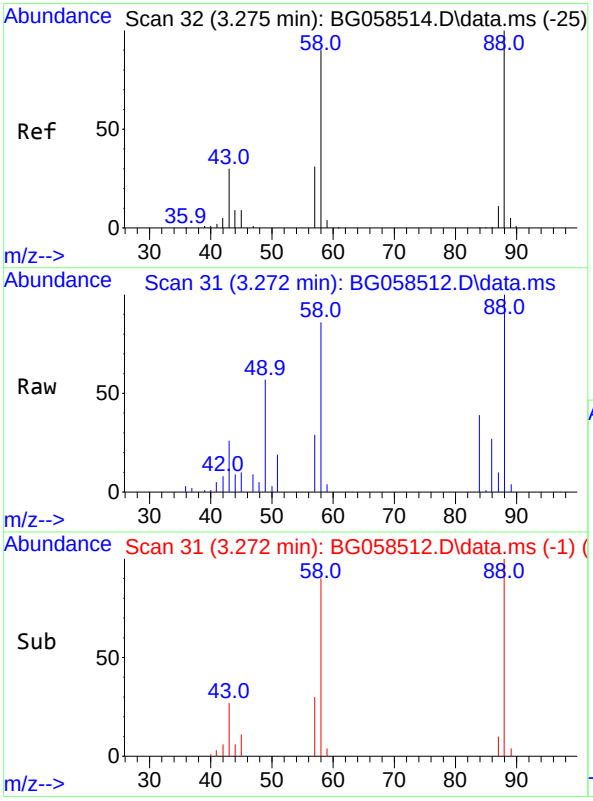
Ion	Ratio	Lower	Upper
152	100		
150	157.6	120.5	180.7
115	60.7	45.9	68.9



Instrument :
BNA_G
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

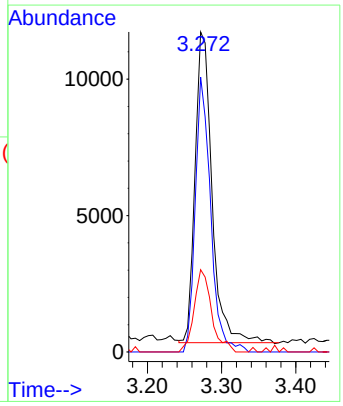
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

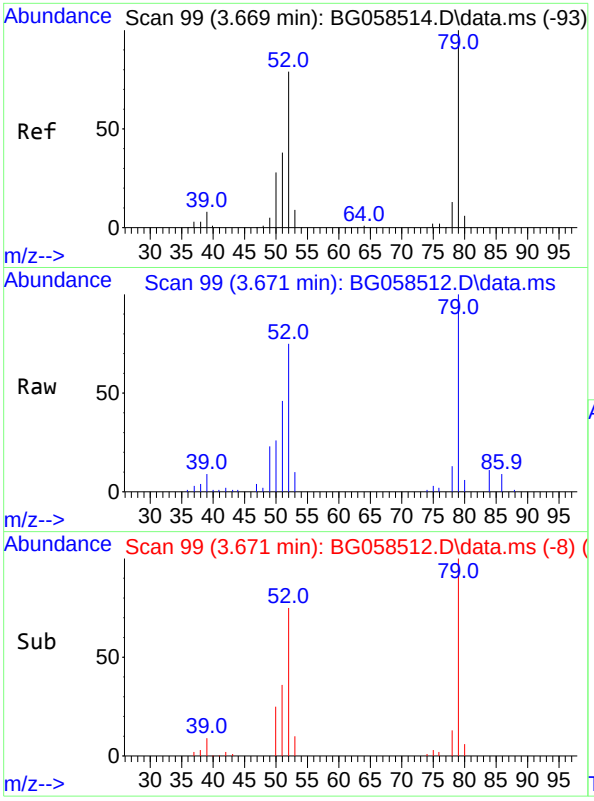


#2
1,4-Dioxane
Concen: 11.145 ng
RT: 3.272 min Scan# 31
Delta R.T. -0.004 min
Lab File: BG058512.D
Acq: 28 Jul 2023 10:43

Tgt Ion: 88 Resp: 18084

Ion	Ratio	Lower	Upper
88	100		
58	80.0	68.9	103.3
43	27.2	22.9	34.3

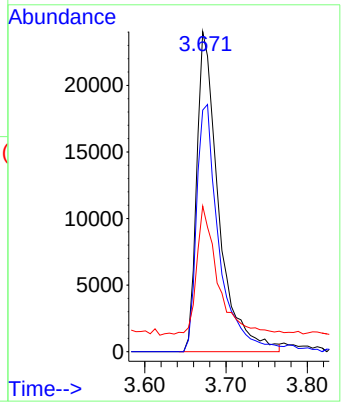




#3
Pyridine
Concen: 10.219 ng
RT: 3.671 min Scan# 9
Delta R.T. 0.002 min
Lab File: BG058512.D
Acq: 28 Jul 2023 10:43

Tgt Ion: 79 Resp: 4520

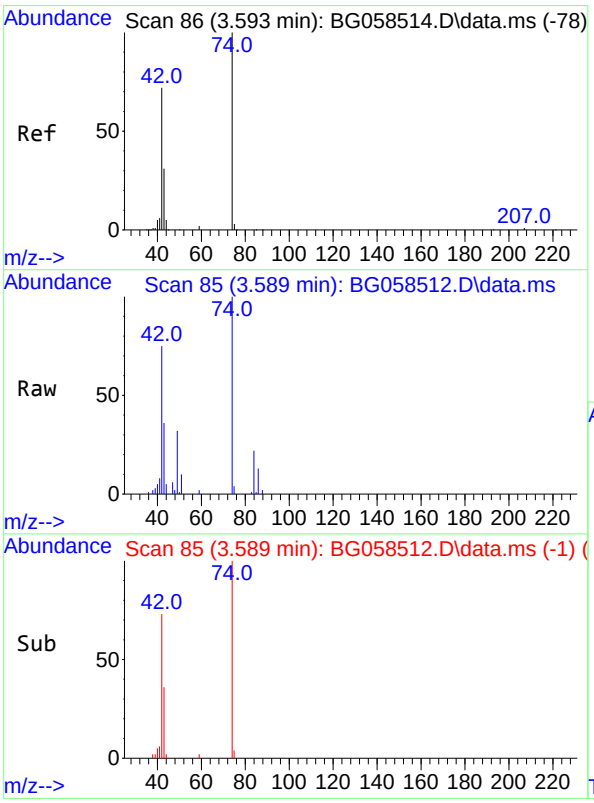
Ion	Ratio	Lower	Upper
79	100		
52	75.5	63.2	94.8
51	45.5	31.9	47.9



Instrument :
BNA_G
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

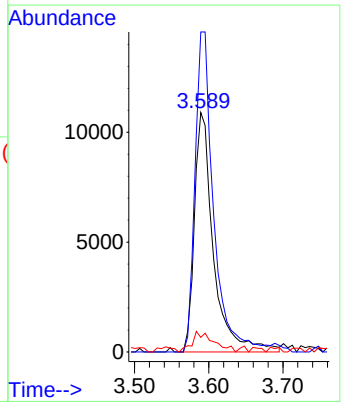
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

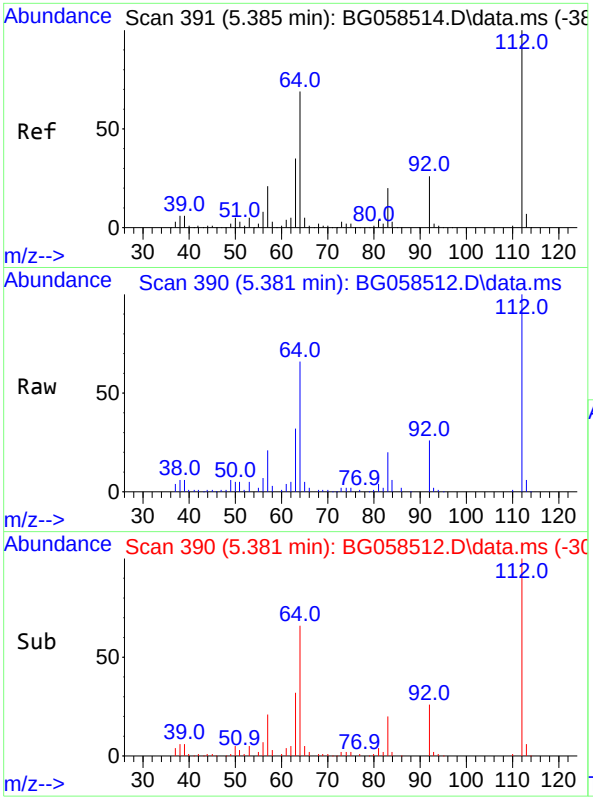


#4
n-Nitrosodimethylamine
Concen: 10.400 ng
RT: 3.589 min Scan# 85
Delta R.T. -0.004 min
Lab File: BG058512.D
Acq: 28 Jul 2023 10:43

Tgt Ion: 42 Resp: 19494

Ion	Ratio	Lower	Upper
42	100		
74	133.6	111.5	167.3
44	6.1	5.4	8.2

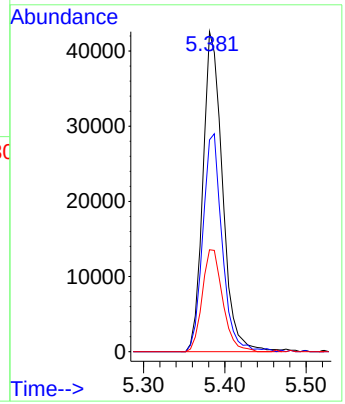




#5
2-Fluorophenol
Concen: 21.234 ng
RT: 5.381 min Scan# 3
Delta R.T. -0.004 min
Lab File: BG058512.D
Acq: 28 Jul 2023 10:43

Tgt Ion:112 Resp: 7110

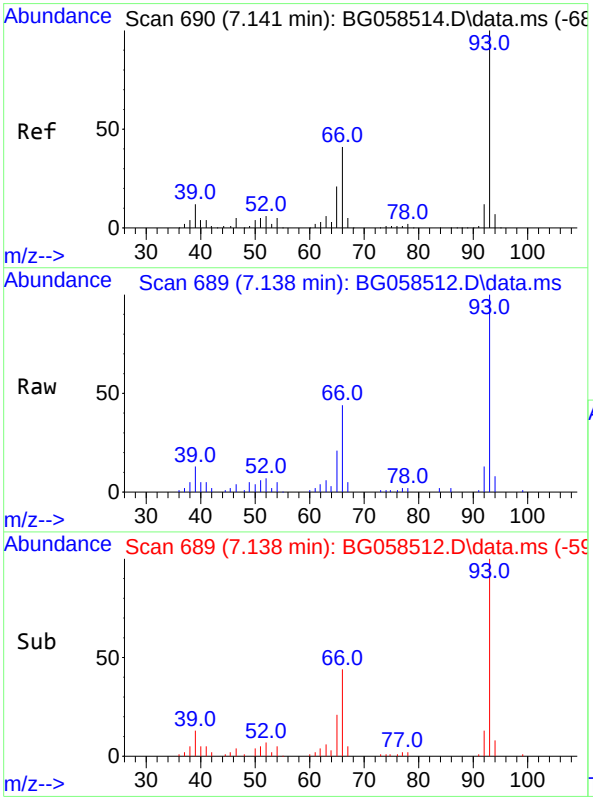
Ion	Ratio	Lower	Upper
112	100		
64	66.2	55.3	82.9
63	31.8	28.3	42.5



Instrument :
BNA_G
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

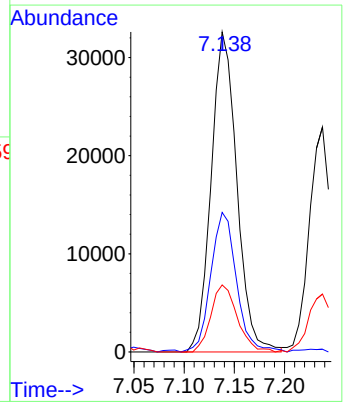
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

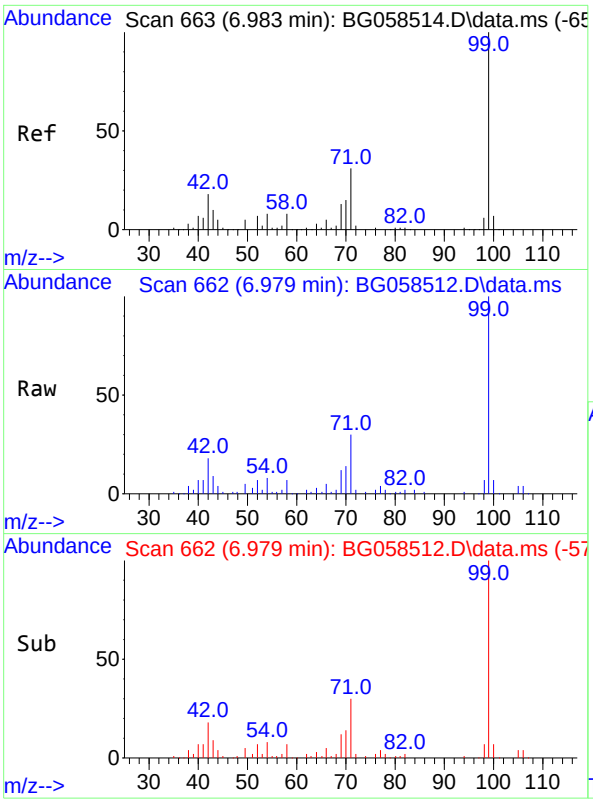


#6
Aniline
Concen: 10.119 ng
RT: 7.138 min Scan# 689
Delta R.T. -0.004 min
Lab File: BG058512.D
Acq: 28 Jul 2023 10:43

Tgt Ion: 93 Resp: 58046

Ion	Ratio	Lower	Upper
93	100		
66	43.6	33.1	49.7
65	21.0	17.0	25.4

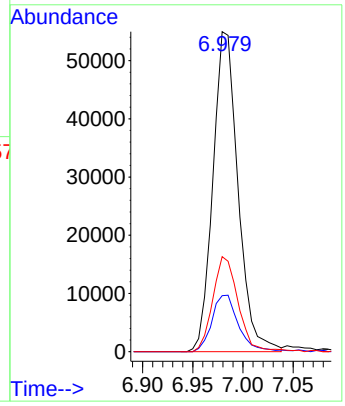




#7
Phenol-d6
Concen: 20.542 ng
RT: 6.979 min Scan# 6
Delta R.T. -0.004 min
Lab File: BG058512.D
Acq: 28 Jul 2023 10:43

Tgt Ion: 99 Resp: 9571

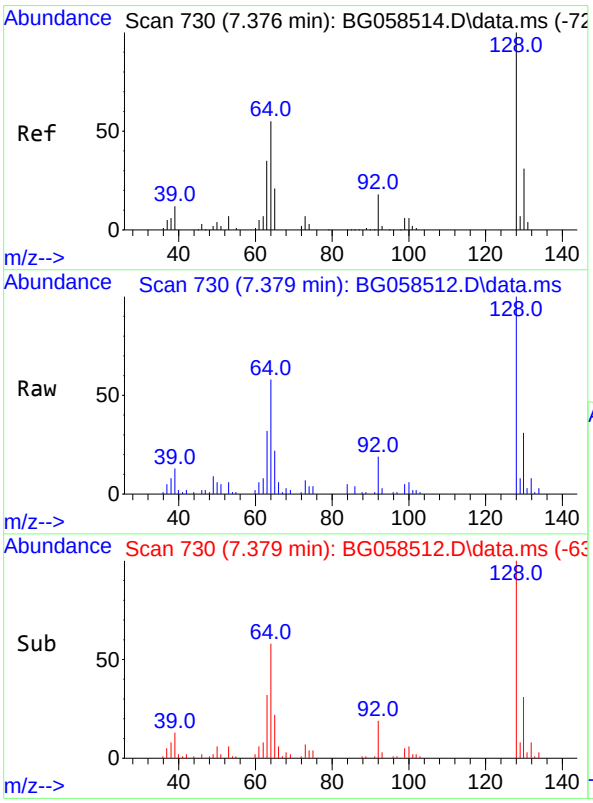
Ion	Ratio	Lower	Upper
99	100		
42	17.5	14.6	21.8
71	29.7	25.0	37.4



Instrument :
BNA_G
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

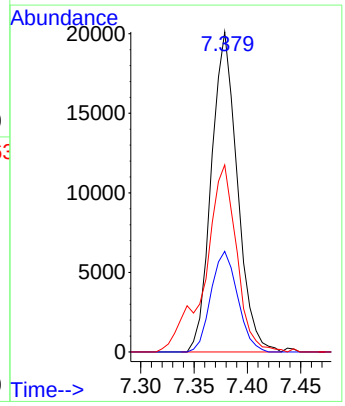
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

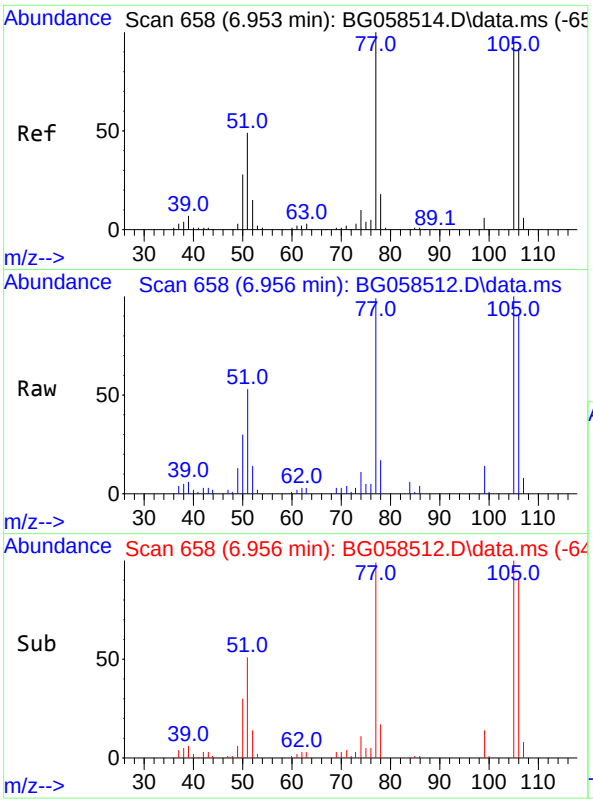


#8
2-Chlorophenol
Concen: 10.354 ng
RT: 7.379 min Scan# 730
Delta R.T. 0.002 min
Lab File: BG058512.D
Acq: 28 Jul 2023 10:43

Tgt Ion:128 Resp: 34012

Ion	Ratio	Lower	Upper
128	100		
130	31.5	10.9	50.9
64	58.5	39.0	79.0

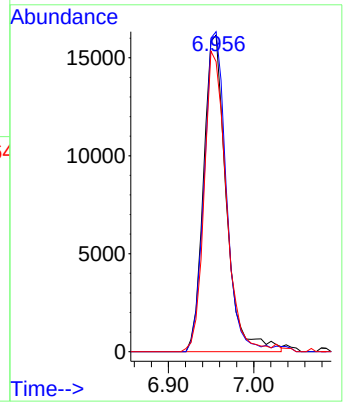




#9
Benzaldehyde
Concen: 11.775 ng
RT: 6.956 min Scan# 6
Delta R.T. 0.003 min
Lab File: BG058512.D
Acq: 28 Jul 2023 10:43

Tgt Ion: 77 Resp: 2980

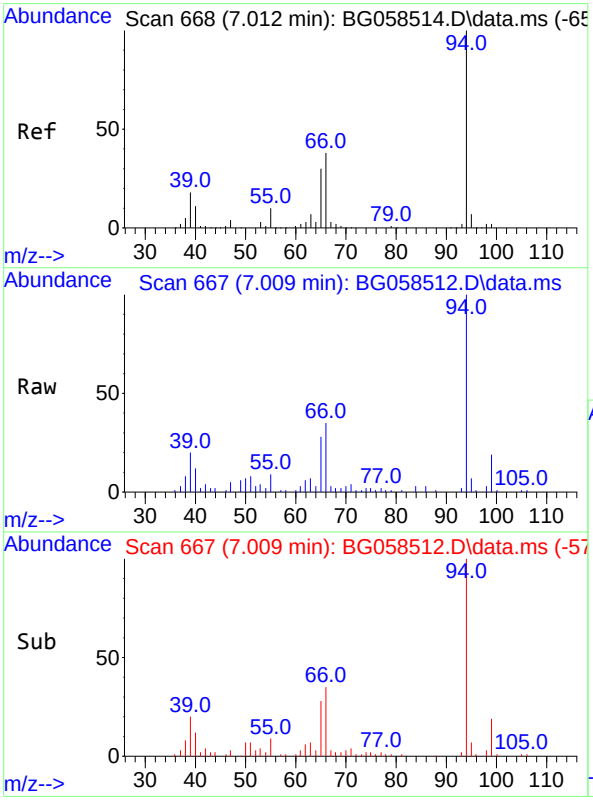
Ion	Ratio	Lower	Upper
77	100		
105	101.1	77.1	117.1
106	91.7	71.6	111.6



Instrument :
BNA_G
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

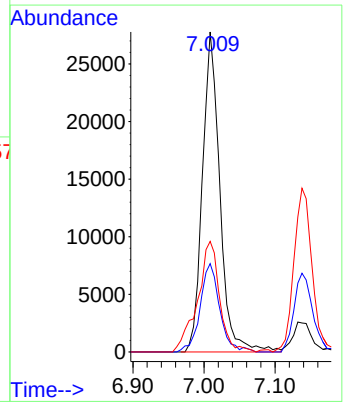
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

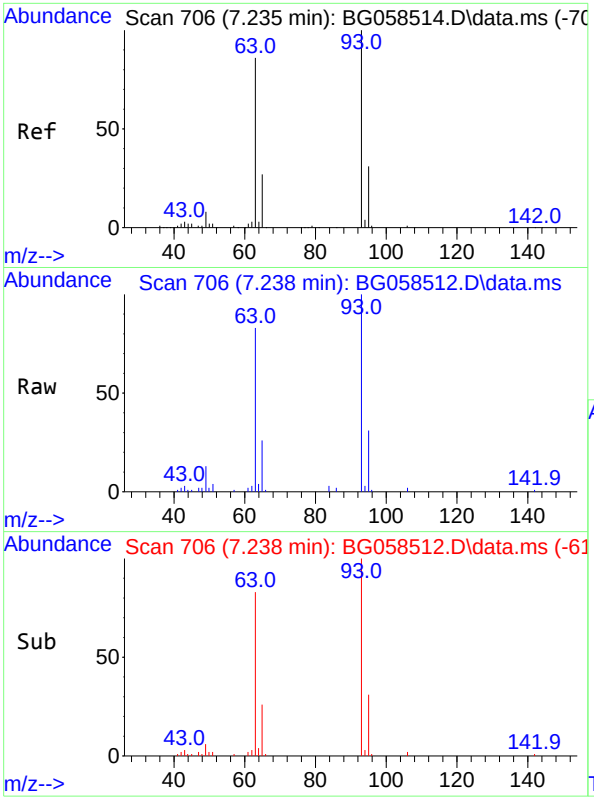


#10
Phenol
Concen: 10.439 ng
RT: 7.009 min Scan# 667
Delta R.T. -0.004 min
Lab File: BG058512.D
Acq: 28 Jul 2023 10:43

Tgt Ion: 94 Resp: 47513

Ion	Ratio	Lower	Upper
94	100		
65	27.6	10.4	50.4
66	34.5	18.7	58.7

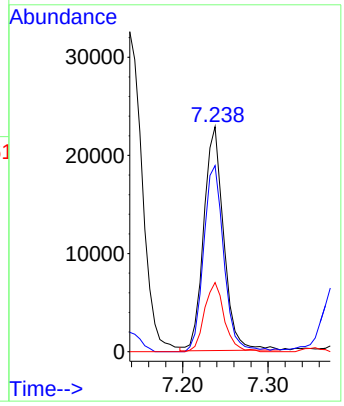




#11
bis(2-Chloroethyl)ether
Concen: 10.374 ng
RT: 7.238 min Scan# 7
Delta R.T. 0.002 min
Lab File: BG058512.D
Acq: 28 Jul 2023 10:43

Tgt Ion: 93 Resp: 3722

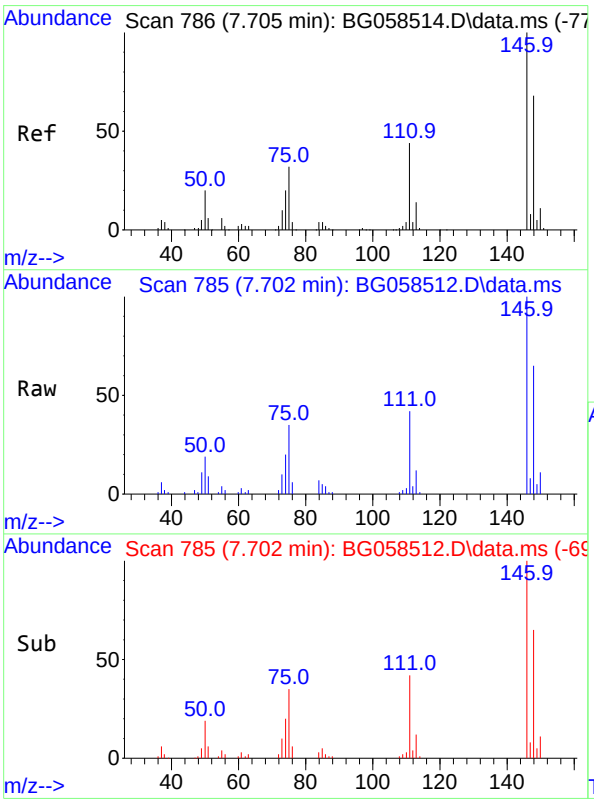
Ion	Ratio	Lower	Upper
93	100		
63	82.7	65.5	105.5
95	30.7	11.2	51.2



Instrument :
BNA_G
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

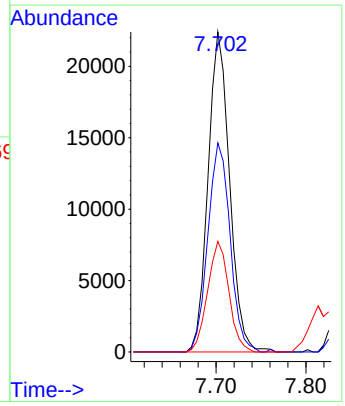
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

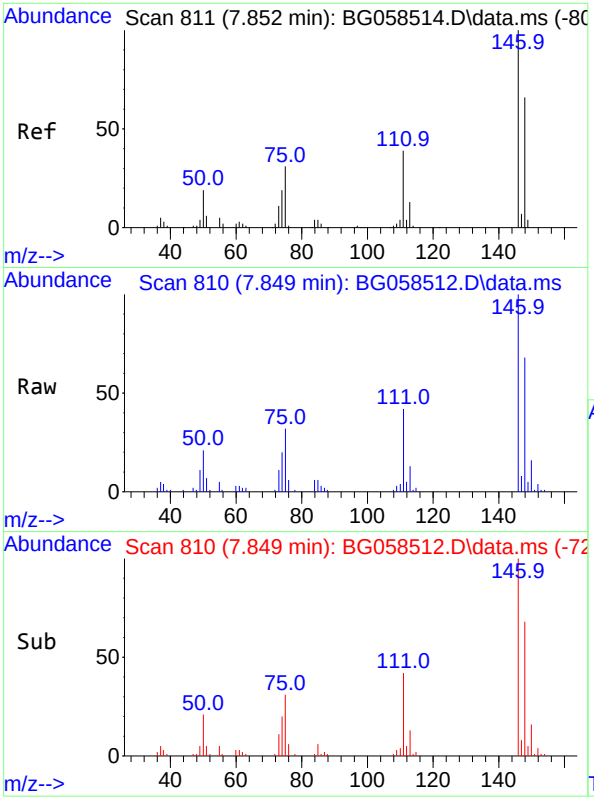


#12
1,3-Dichlorobenzene
Concen: 10.620 ng
RT: 7.702 min Scan# 785
Delta R.T. -0.004 min
Lab File: BG058512.D
Acq: 28 Jul 2023 10:43

Tgt Ion:146 Resp: 37251

Ion	Ratio	Lower	Upper
146	100		
148	65.3	54.7	82.1
75	34.6	25.8	38.8

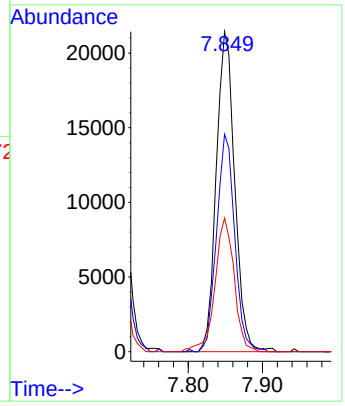




#13
1,4-Dichlorobenzene
Concen: 10.506 ng
RT: 7.849 min Scan# 81
Delta R.T. -0.004 min
Lab File: BG058512.D
Acq: 28 Jul 2023 10:43

Tgt Ion:146 Resp: 3700

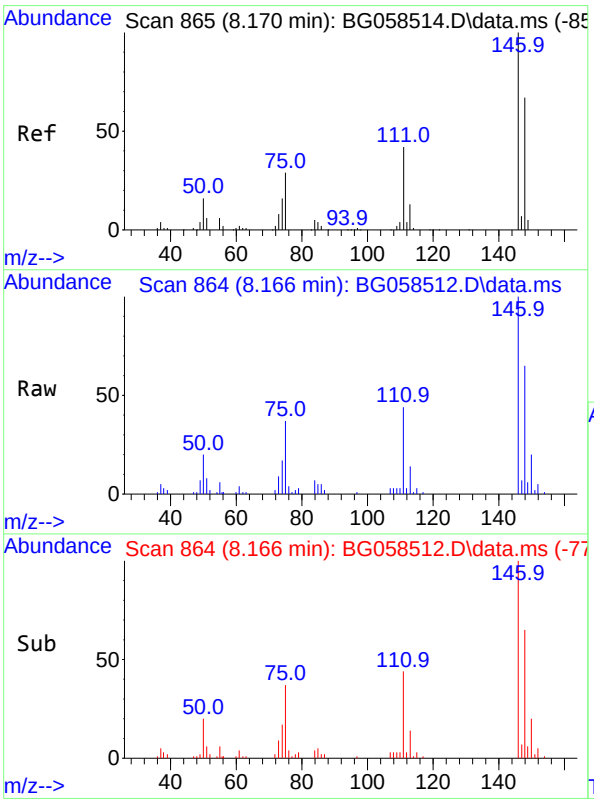
Ion	Ratio	Lower	Upper
146	100		
148	68.0	52.8	79.2
111	41.7	31.7	47.5



Instrument :
BNA_G
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

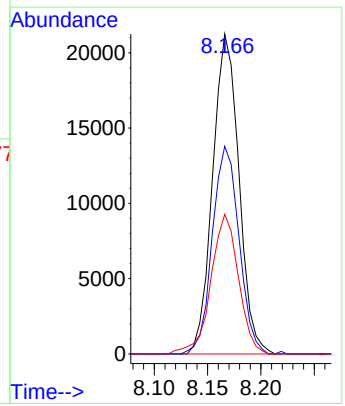
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

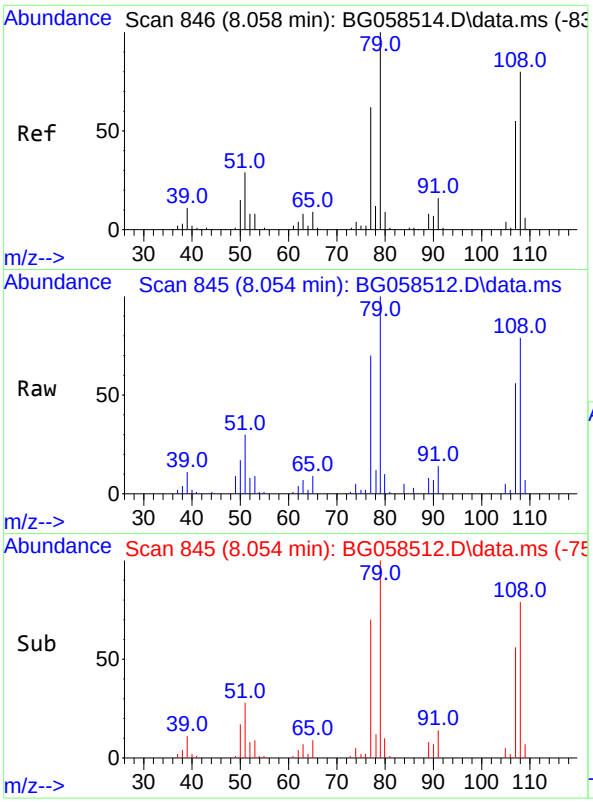


#14
1,2-Dichlorobenzene
Concen: 10.786 ng
RT: 8.166 min Scan# 864
Delta R.T. -0.004 min
Lab File: BG058512.D
Acq: 28 Jul 2023 10:43

Tgt Ion:146 Resp: 36319

Ion	Ratio	Lower	Upper
146	100		
148	64.9	53.4	80.2
111	43.6	34.2	51.2

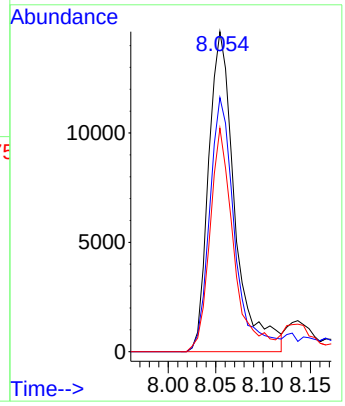




#15
Benzyl Alcohol
Concen: 9.511 ng
RT: 8.054 min Scan# 84
Delta R.T. -0.004 min
Lab File: BG058512.D
Acq: 28 Jul 2023 10:43

Tgt Ion: 79 Resp: 2810

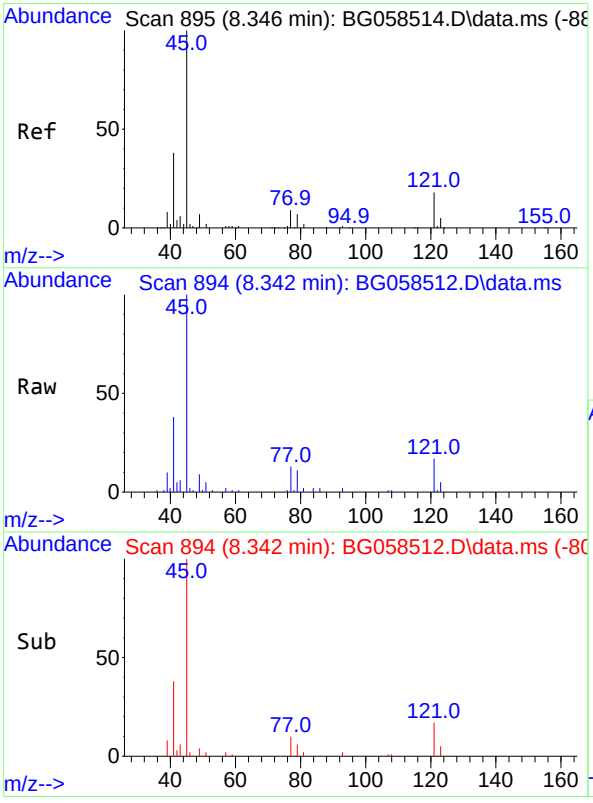
Ion	Ratio	Lower	Upper
79	100		
108	79.4	63.8	95.6
77	69.9	49.8	74.6



Instrument :
BNA_G
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

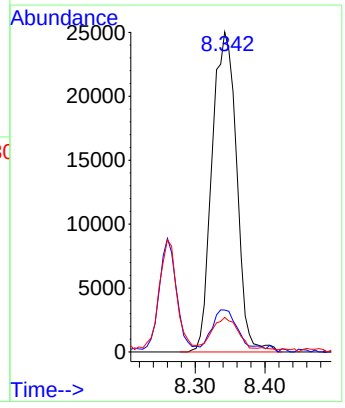
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

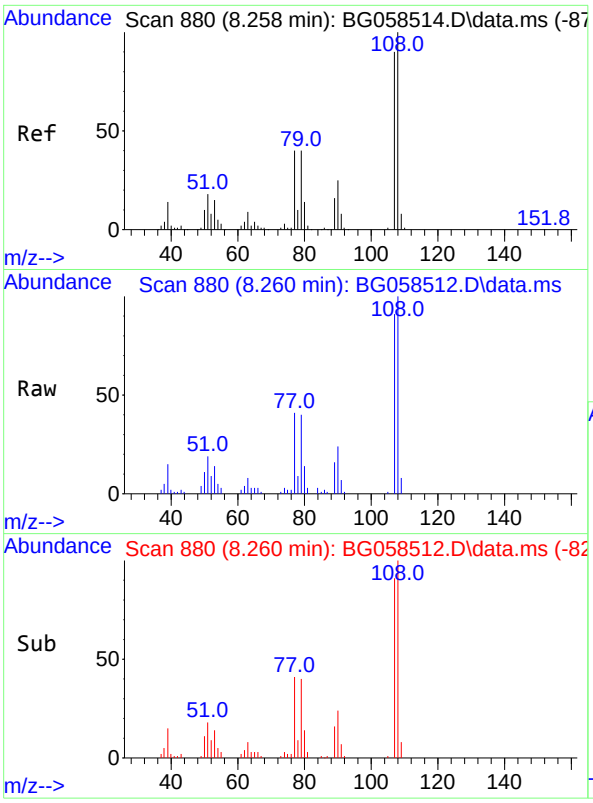


#16
2,2'-oxybis(1-Chloropropane)
Concen: 10.512 ng m
RT: 8.342 min Scan# 894
Delta R.T. -0.004 min
Lab File: BG058512.D
Acq: 28 Jul 2023 10:43

Tgt Ion: 45 Resp: 61269

Ion	Ratio	Lower	Upper
45	100		
77	13.1	0.0	32.6
79	10.8	0.0	30.2

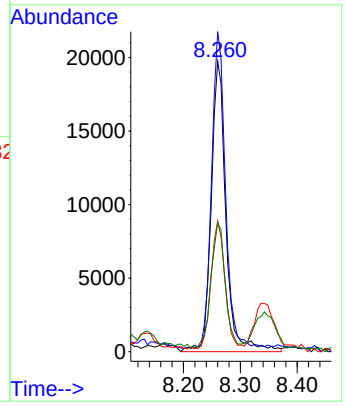




#17
2-Methylphenol
Concen: 10.602 ng
RT: 8.260 min Scan# 8
Delta R.T. 0.002 min
Lab File: BG058512.D
Acq: 28 Jul 2023 10:43

Tgt Ion:107 Resp: 3528

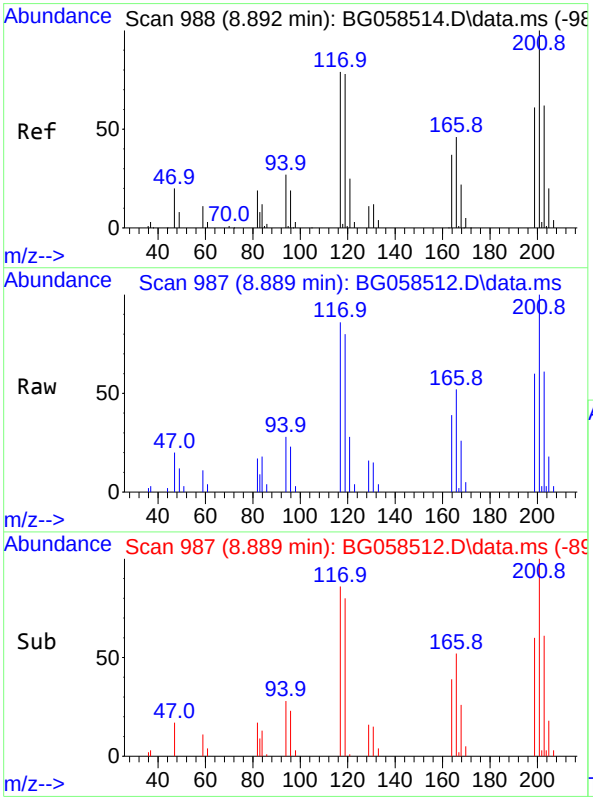
Ion	Ratio	Lower	Upper
107	100		
108	110.3	89.1	133.7
77	45.0	36.2	54.4
79	44.4	36.1	54.1



Instrument :
BNA_G
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

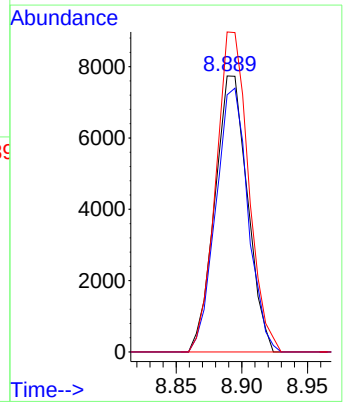
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

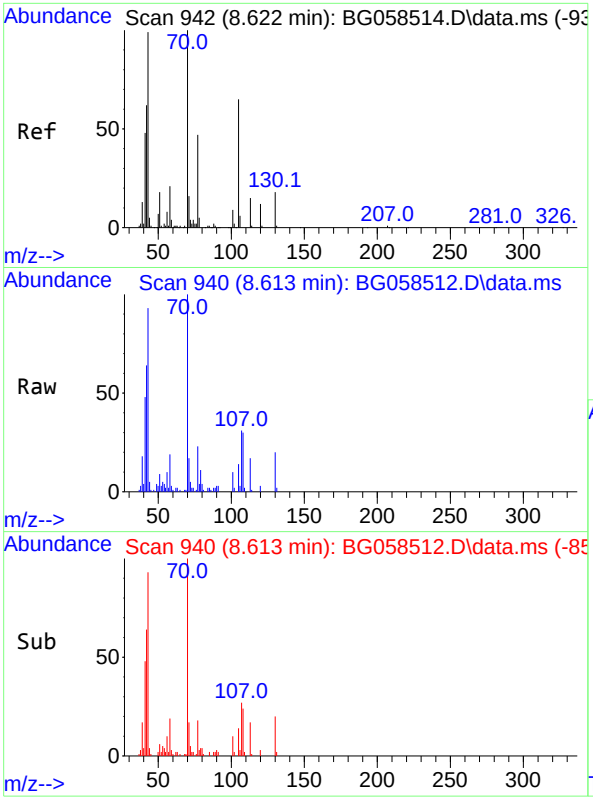


#18
Hexachloroethane
Concen: 10.447 ng
RT: 8.889 min Scan# 987
Delta R.T. -0.004 min
Lab File: BG058512.D
Acq: 28 Jul 2023 10:43

Tgt Ion:117 Resp: 13374

Ion	Ratio	Lower	Upper
117	100		
119	93.2	78.6	117.8
201	115.9	101.4	152.0

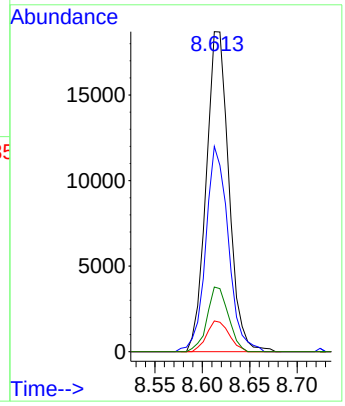




#19
n-Nitroso-di-n-propylamine
Concen: 10.324 ng
RT: 8.613 min Scan# 94
Delta R.T. -0.009 min
Lab File: BG058512.D
Acq: 28 Jul 2023 10:43

Tgt Ion: 70 Resp: 3107

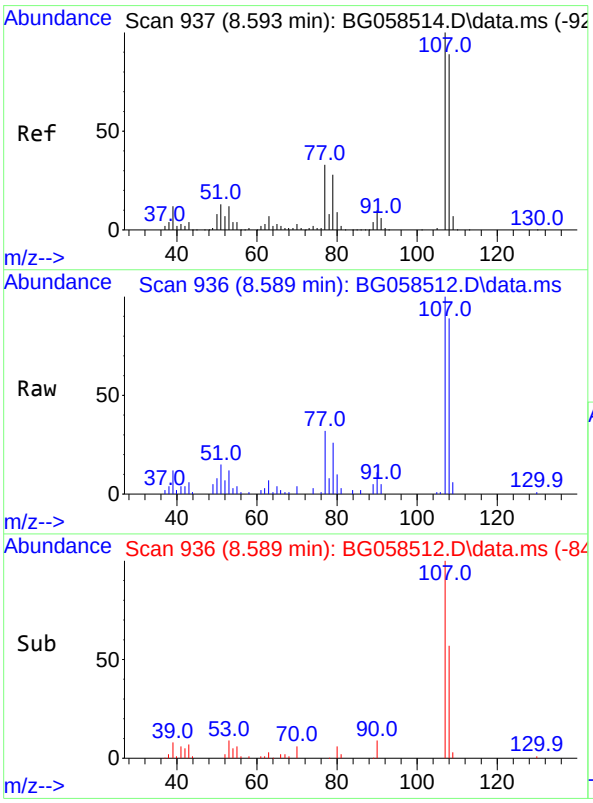
Ion	Ratio	Lower	Upper
70	100		
42	64.2	49.7	74.5
101	9.6	7.0	10.4
130	20.2	14.3	21.5



Instrument :
BNA_G
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

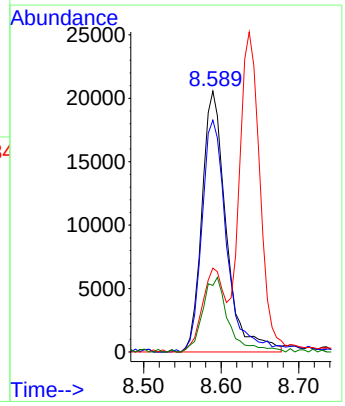
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

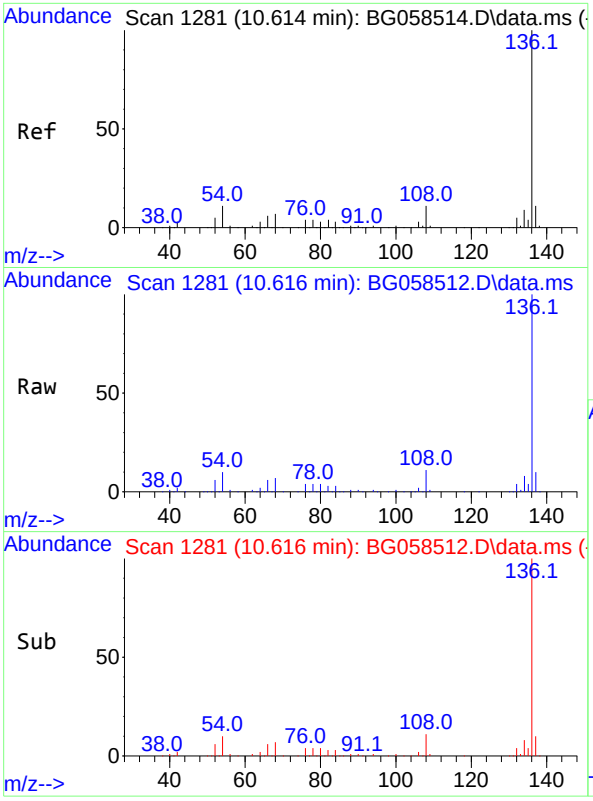


#20
3+4-Methylphenols
Concen: 9.917 ng
RT: 8.589 min Scan# 936
Delta R.T. -0.004 min
Lab File: BG058512.D
Acq: 28 Jul 2023 10:43

Tgt Ion:107 Resp: 44641

Ion	Ratio	Lower	Upper
107	100		
108	88.9	69.4	109.4
77	32.1	13.0	53.0
79	25.5	8.0	48.0

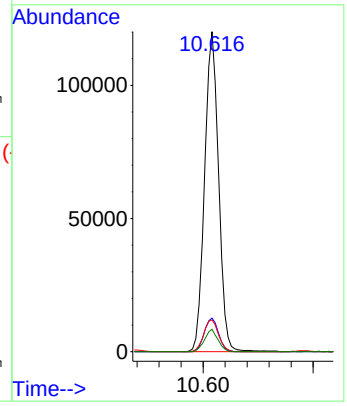




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.616 min Scan# 1
Delta R.T. 0.002 min
Lab File: BG058512.D
Acq: 28 Jul 2023 10:43

Tgt Ion:136 Resp: 21186

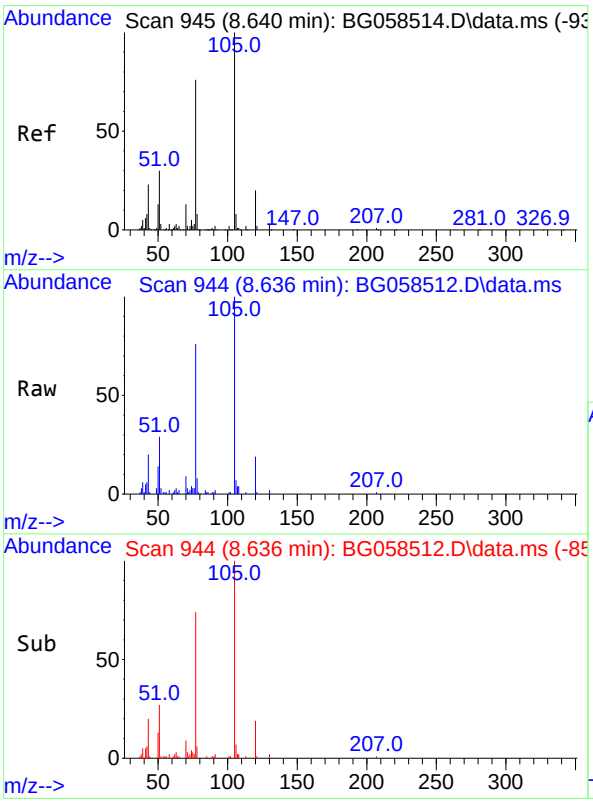
Ion	Ratio	Lower	Upper
136	100		
137	10.5	8.6	13.0
54	9.9	8.9	13.3
68	7.0	5.6	8.4



Instrument :
BNA_G
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

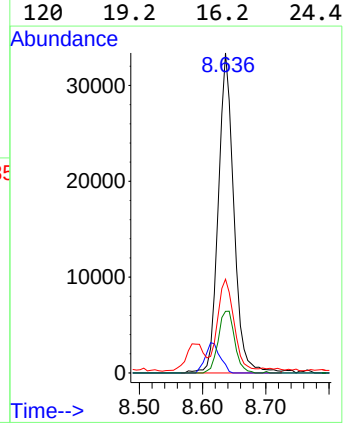
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

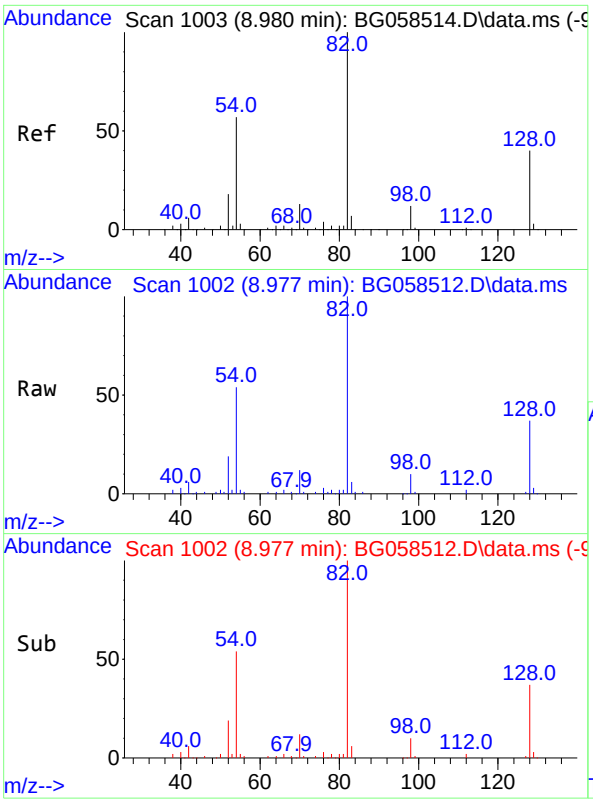


#22
Acetophenone
Concen: 10.064 ng
RT: 8.636 min Scan# 944
Delta R.T. -0.004 min
Lab File: BG058512.D
Acq: 28 Jul 2023 10:43

Tgt Ion:105 Resp: 57091

Ion	Ratio	Lower	Upper
105	100		
71	2.7	1.8	2.6#
51	29.3	24.2	36.2
120	19.2	16.2	24.4

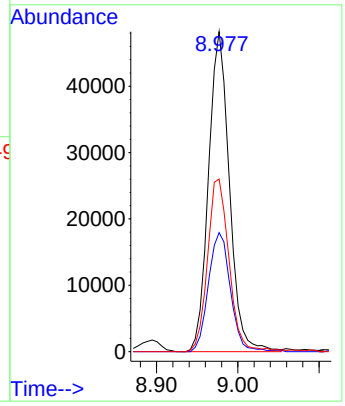




#23
Nitrobenzene-d5
Concen: 19.953 ng
RT: 8.977 min Scan# 1
Delta R.T. -0.004 min
Lab File: BG058512.D
Acq: 28 Jul 2023 10:43

Tgt Ion: 82 Resp: 8605

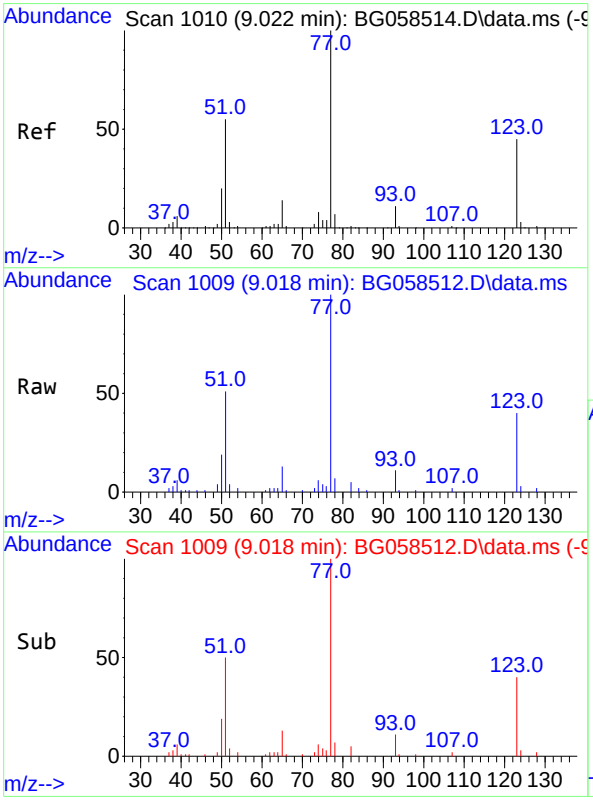
Ion	Ratio	Lower	Upper
82	100		
128	37.2	32.2	48.2
54	54.0	46.0	69.0



Instrument :
BNA_G
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

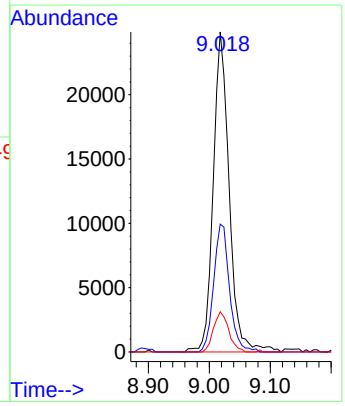
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

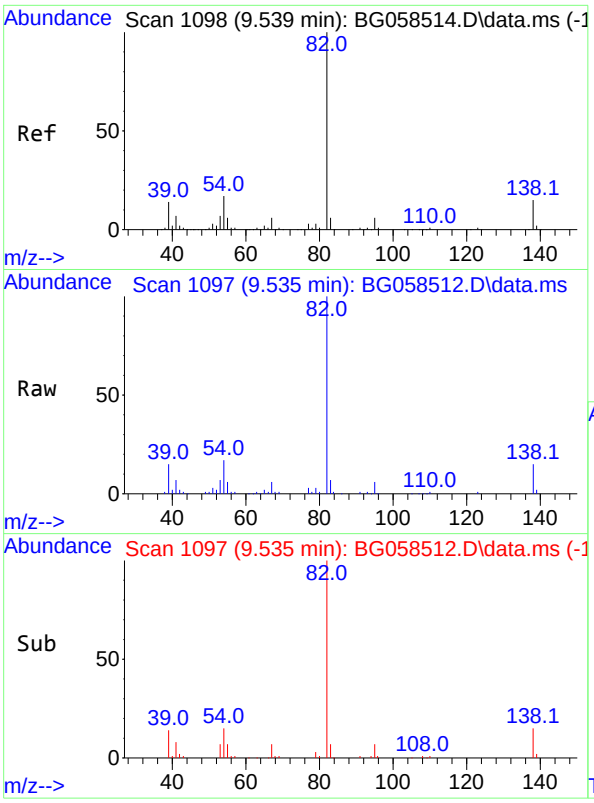


#24
Nitrobenzene
Concen: 10.319 ng
RT: 9.018 min Scan# 1009
Delta R.T. -0.004 min
Lab File: BG058512.D
Acq: 28 Jul 2023 10:43

Tgt Ion: 77 Resp: 45243

Ion	Ratio	Lower	Upper
77	100		
123	40.0	35.6	53.4
65	12.6	11.4	17.0

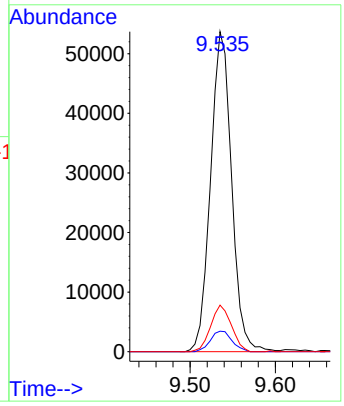




#25
Isophorone
Concen: 10.320 ng
RT: 9.535 min Scan# 1
Delta R.T. -0.004 min
Lab File: BG058512.D
Acq: 28 Jul 2023 10:43

Tgt Ion: 82 Resp: 9196

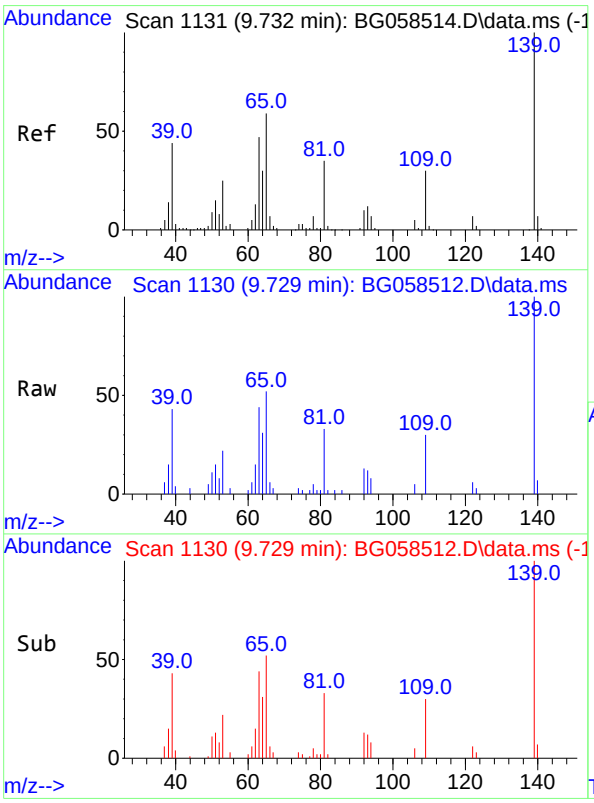
Ion	Ratio	Lower	Upper
82	100		
95	6.4	5.1	7.7
138	14.6	11.9	17.9



Instrument :
BNA_G
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

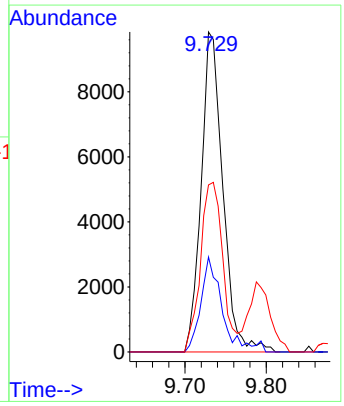
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

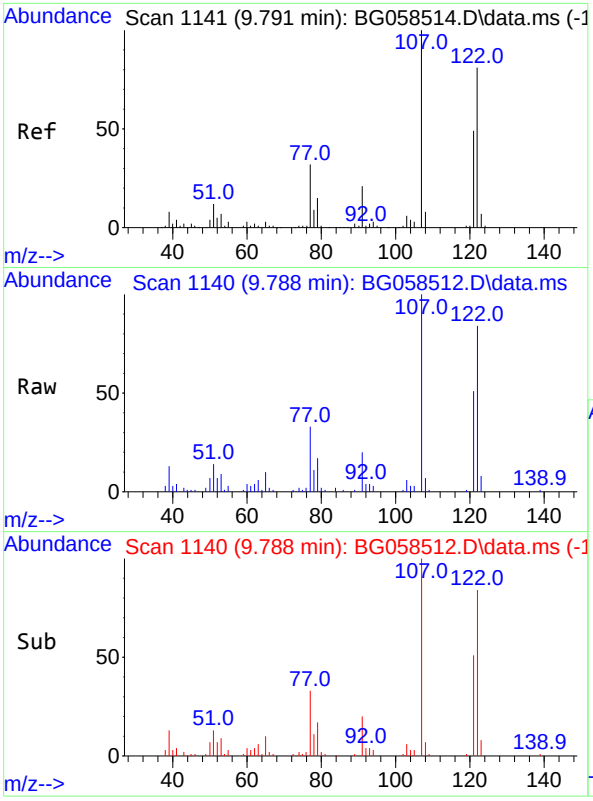


#26
2-Nitrophenol
Concen: 9.539 ng
RT: 9.729 min Scan# 1130
Delta R.T. -0.004 min
Lab File: BG058512.D
Acq: 28 Jul 2023 10:43

Tgt Ion:139 Resp: 18206

Ion	Ratio	Lower	Upper
139	100		
109	29.6	24.2	36.2
65	52.2	47.0	70.4

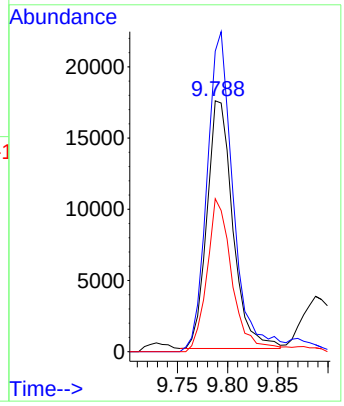




#27
2,4-Dimethylphenol
Concen: 9.872 ng
RT: 9.788 min Scan# 11
Delta R.T. -0.004 min
Lab File: BG058512.D
Acq: 28 Jul 2023 10:43

Tgt Ion:122 Resp: 3125

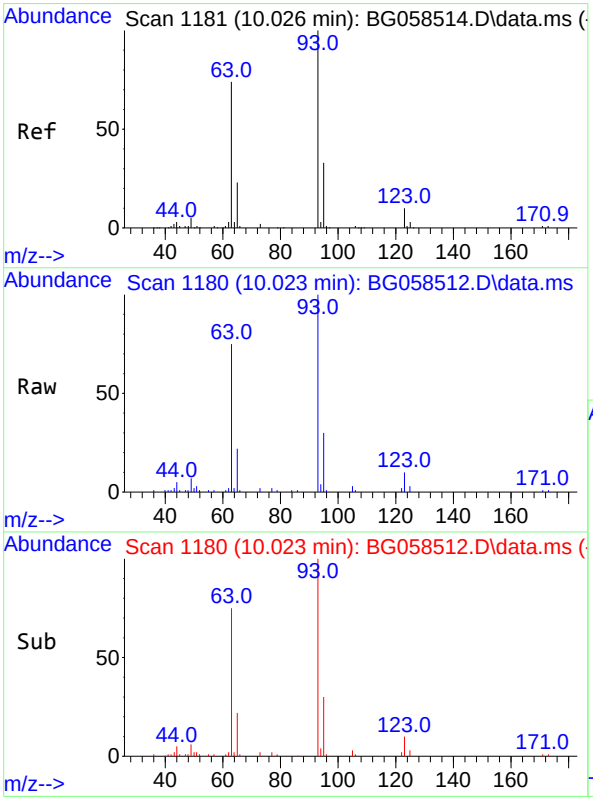
Ion	Ratio	Lower	Upper
122	100		
107	119.7	98.0	147.0
121	61.0	47.8	71.6



Instrument :
BNA_G
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

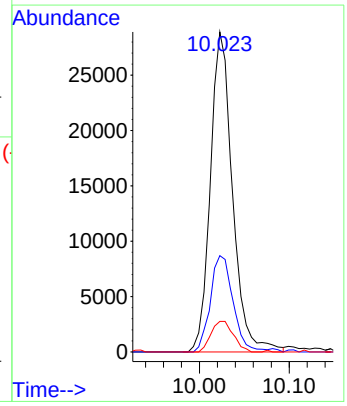
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

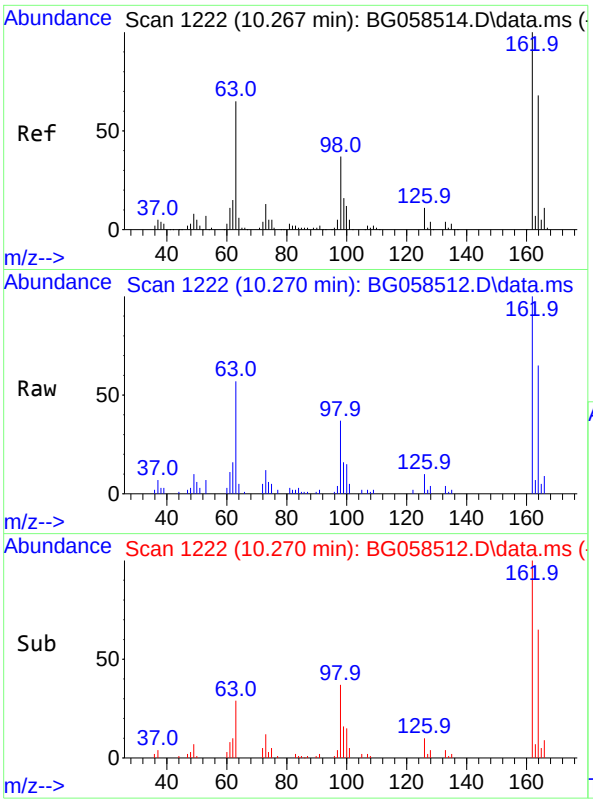


#28
bis(2-Chloroethoxy)methane
Concen: 10.197 ng
RT: 10.023 min Scan# 1180
Delta R.T. -0.004 min
Lab File: BG058512.D
Acq: 28 Jul 2023 10:43

Tgt Ion: 93 Resp: 49446

Ion	Ratio	Lower	Upper
93	100		
95	30.1	26.0	39.0
123	9.5	7.8	11.8

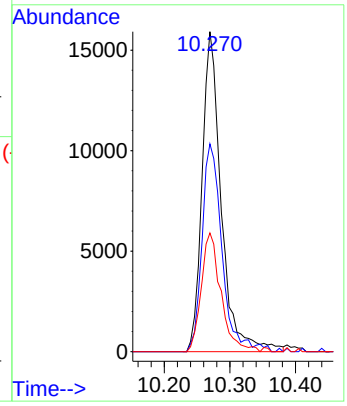




#29
2,4-Dichlorophenol
Concen: 9.842 ng
RT: 10.270 min Scan# 1
Delta R.T. 0.002 min
Lab File: BG058512.D
Acq: 28 Jul 2023 10:43

Tgt Ion:162 Resp: 3234

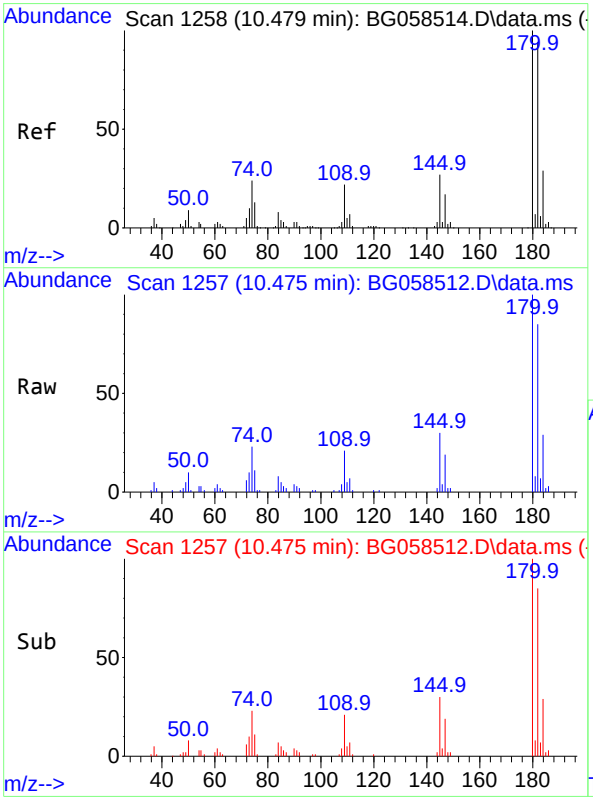
Ion	Ratio	Lower	Upper
162	100		
164	65.0	47.6	87.6
98	37.1	17.1	57.1



Instrument :
BNA_G
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

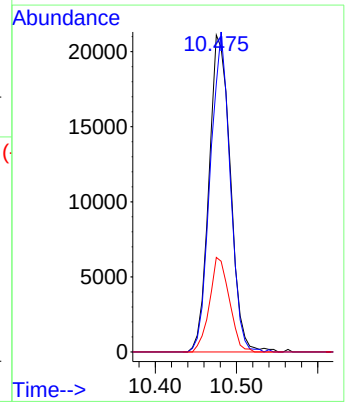
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

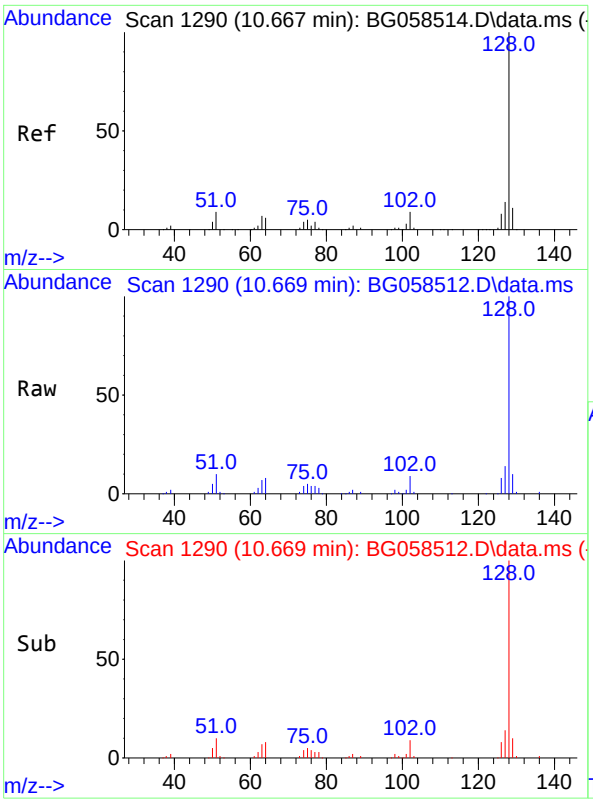


#30
1,2,4-Trichlorobenzene
Concen: 10.153 ng
RT: 10.475 min Scan# 1257
Delta R.T. -0.004 min
Lab File: BG058512.D
Acq: 28 Jul 2023 10:43

Tgt Ion:180 Resp: 38488

Ion	Ratio	Lower	Upper
180	100		
182	84.6	75.0	112.4
145	29.8	21.9	32.9

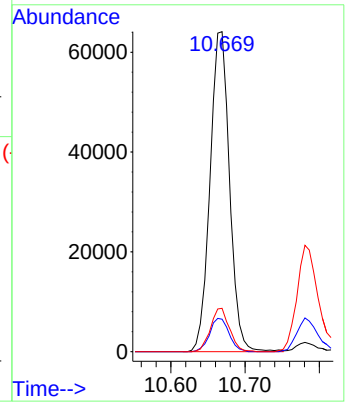




#31
Naphthalene
Concen: 10.509 ng
RT: 10.669 min Scan# 1
Delta R.T. 0.002 min
Lab File: BG058512.D
Acq: 28 Jul 2023 10:43

Tgt Ion:128 Resp: 11734

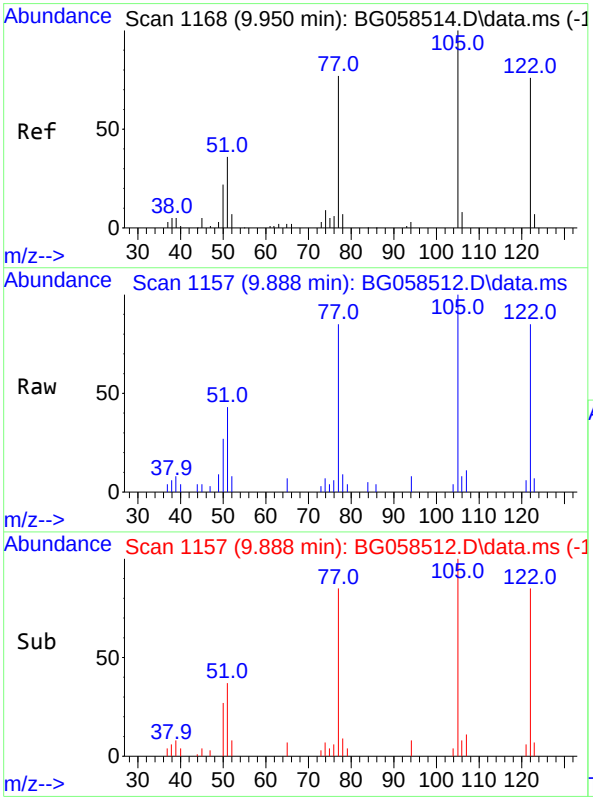
Ion	Ratio	Lower	Upper
128	100		
129	10.1	8.8	13.2
127	13.5	10.9	16.3



Instrument :
BNA_G
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

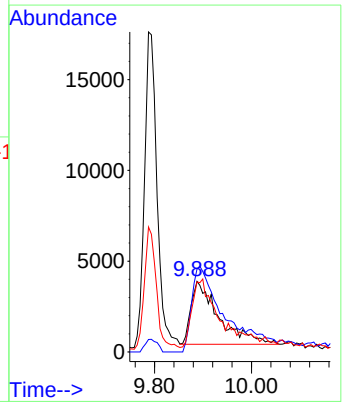
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

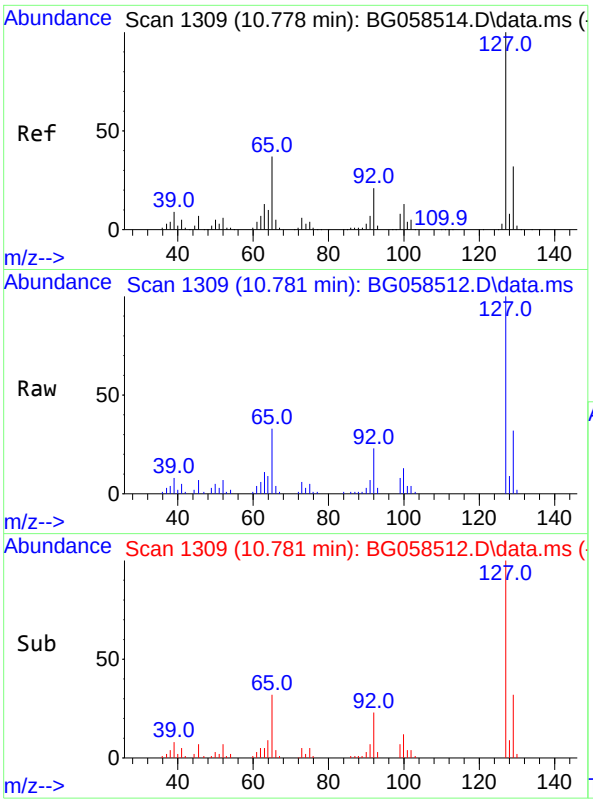


#32
Benzoic acid
Concen: 9.093 ng m
RT: 9.888 min Scan# 1157
Delta R.T. -0.062 min
Lab File: BG058512.D
Acq: 28 Jul 2023 10:43

Tgt Ion:122 Resp: 13793

Ion	Ratio	Lower	Upper
122	100		
105	117.5	106.5	146.5
77	99.4	78.1	118.1

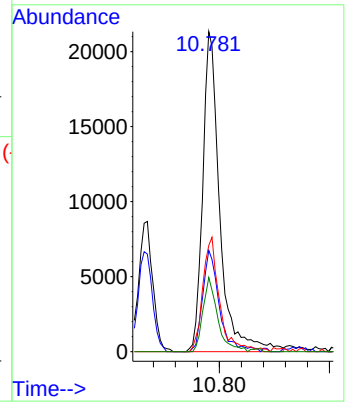




#33
4-Chloroaniline
Concen: 9.724 ng
RT: 10.781 min Scan# 1
Delta R.T. 0.002 min
Lab File: BG058512.D
Acq: 28 Jul 2023 10:43

Tgt Ion:127 Resp: 4587

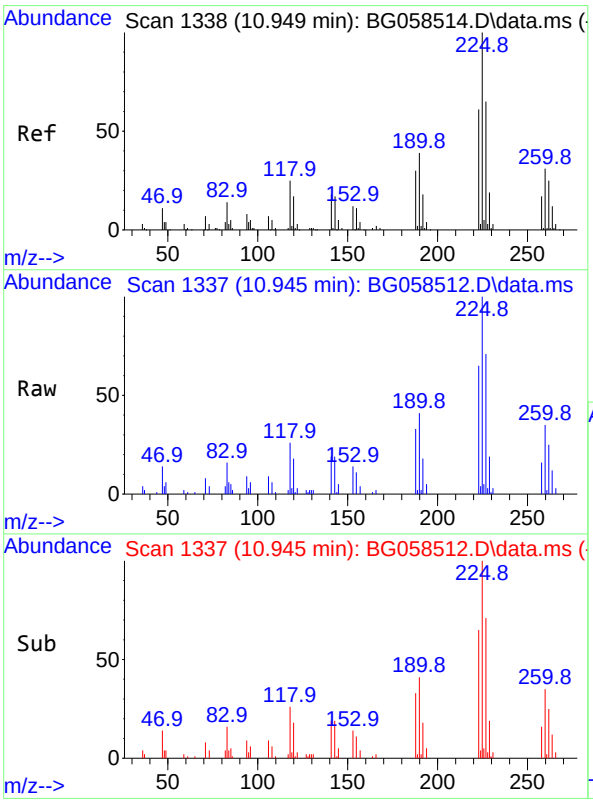
Ion	Ratio	Lower	Upper
127	100		
129	31.7	25.4	38.2
65	33.2	29.5	44.3
92	23.2	16.6	24.8



Instrument :
BNA_G
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

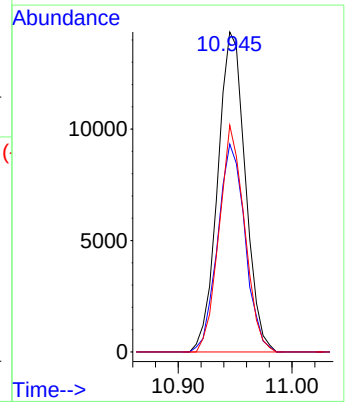
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

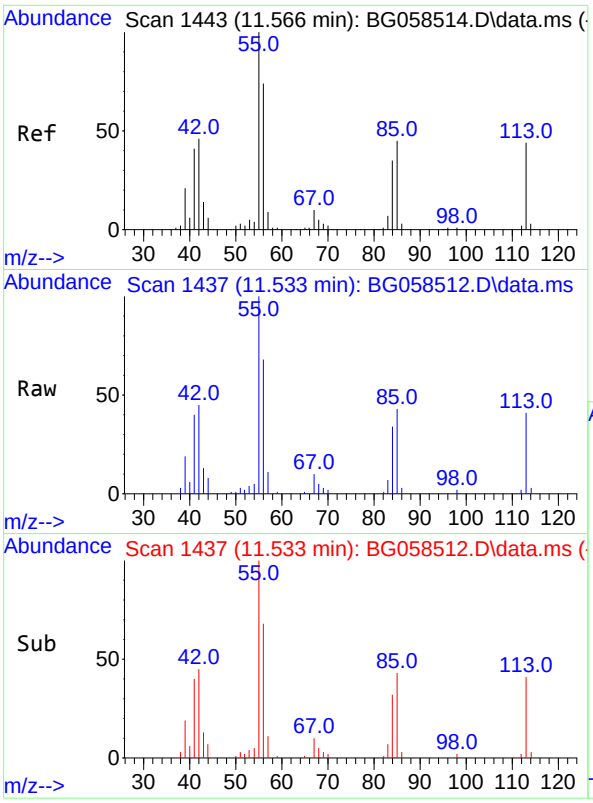


#34
Hexachlorobutadiene
Concen: 9.917 ng
RT: 10.945 min Scan# 1337
Delta R.T. -0.004 min
Lab File: BG058512.D
Acq: 28 Jul 2023 10:43

Tgt Ion:225 Resp: 24210

Ion	Ratio	Lower	Upper
225	100		
223	61.9	49.0	73.6
227	67.6	51.7	77.5

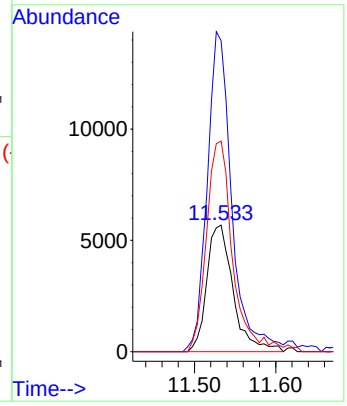




#35
Caprolactam
Concen: 10.548 ng
RT: 11.533 min Scan# 14
Delta R.T. -0.033 min
Lab File: BG058512.D
Acq: 28 Jul 2023 10:43

Tgt Ion:113 Resp: 1280

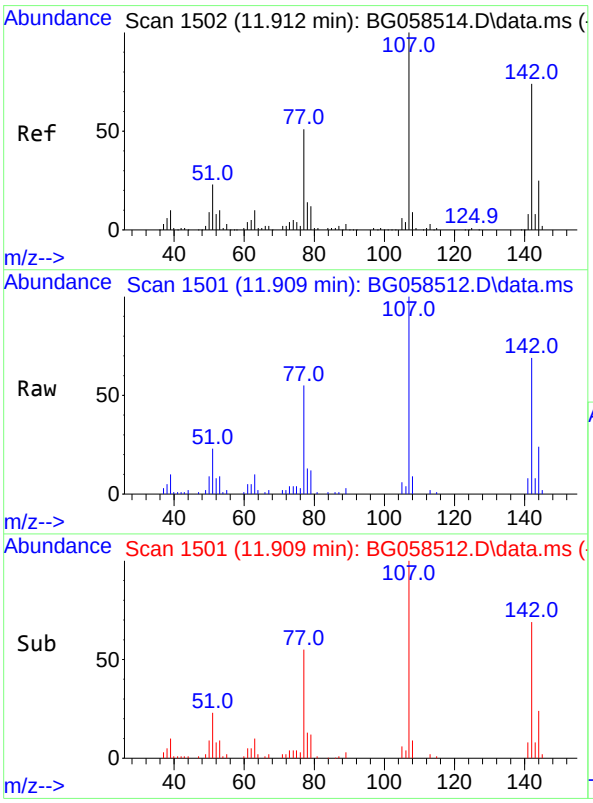
Ion	Ratio	Lower	Upper
113	100		
55	245.5	208.0	248.0
56	166.3	148.6	188.6



Instrument :
BNA_G
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

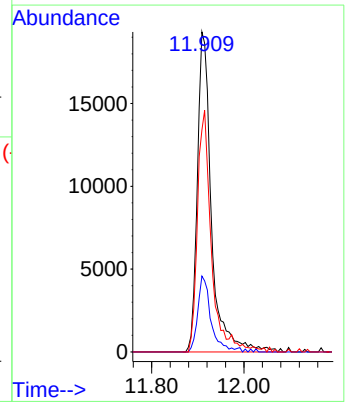
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

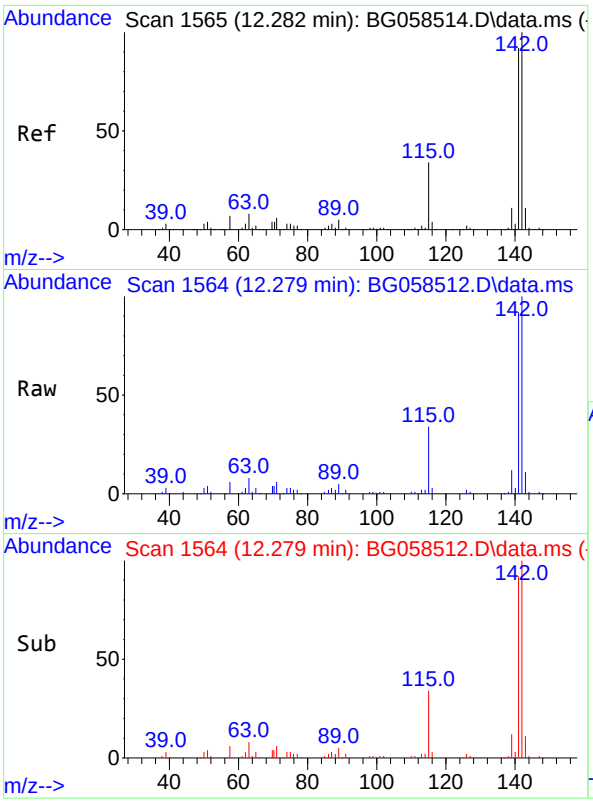


#36
4-Chloro-3-methylphenol
Concen: 10.100 ng
RT: 11.909 min Scan# 1501
Delta R.T. -0.004 min
Lab File: BG058512.D
Acq: 28 Jul 2023 10:43

Tgt Ion:107 Resp: 41067

Ion	Ratio	Lower	Upper
107	100		
144	23.7	19.6	29.4
142	69.3	59.3	88.9

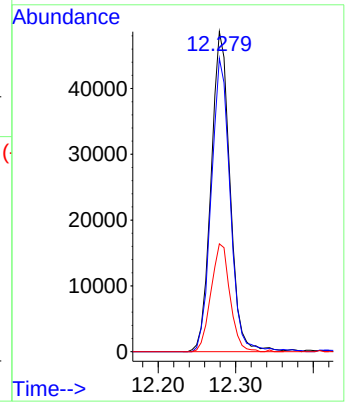




#37
2-Methylnaphthalene
Concen: 10.301 ng
RT: 12.279 min Scan# 1
Delta R.T. -0.004 min
Lab File: BG058512.D
Acq: 28 Jul 2023 10:43

Tgt Ion:142 Resp: 8227

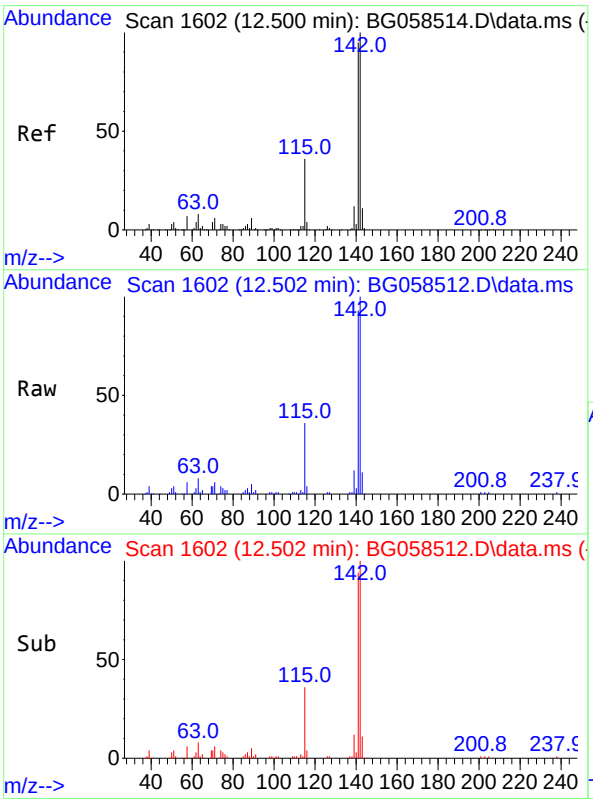
Ion	Ratio	Lower	Upper
142	100		
141	91.7	73.5	110.3
115	33.7	27.4	41.0



Instrument :
BNA_G
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

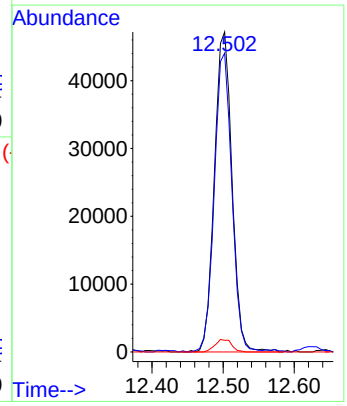
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

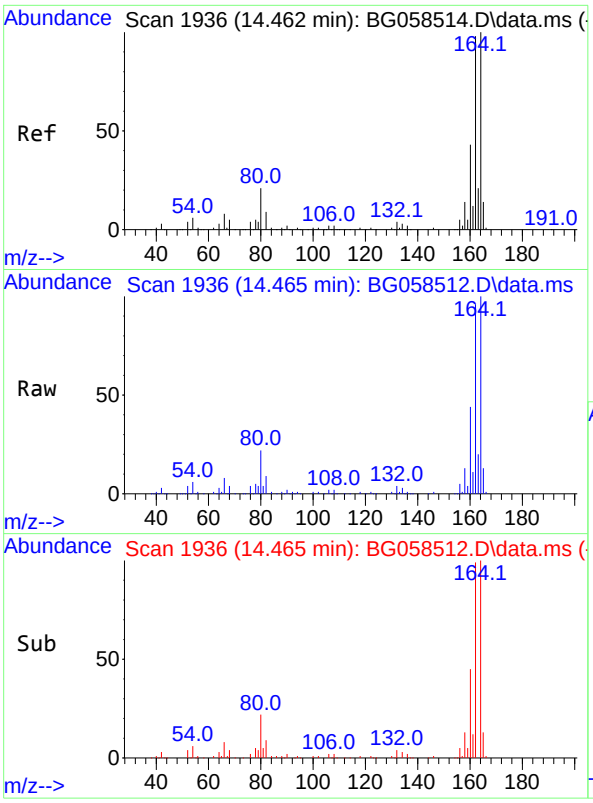


#38
1-Methylnaphthalene
Concen: 10.675 ng
RT: 12.502 min Scan# 1602
Delta R.T. 0.002 min
Lab File: BG058512.D
Acq: 28 Jul 2023 10:43

Tgt Ion:142 Resp: 81055

Ion	Ratio	Lower	Upper
142	100		
141	93.4	75.7	113.5
116	3.6	3.2	4.8

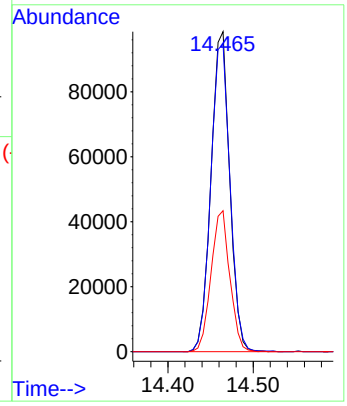




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.465 min Scan# 1
Delta R.T. 0.002 min
Lab File: BG058512.D
Acq: 28 Jul 2023 10:43

Tgt Ion:164 Resp: 15001

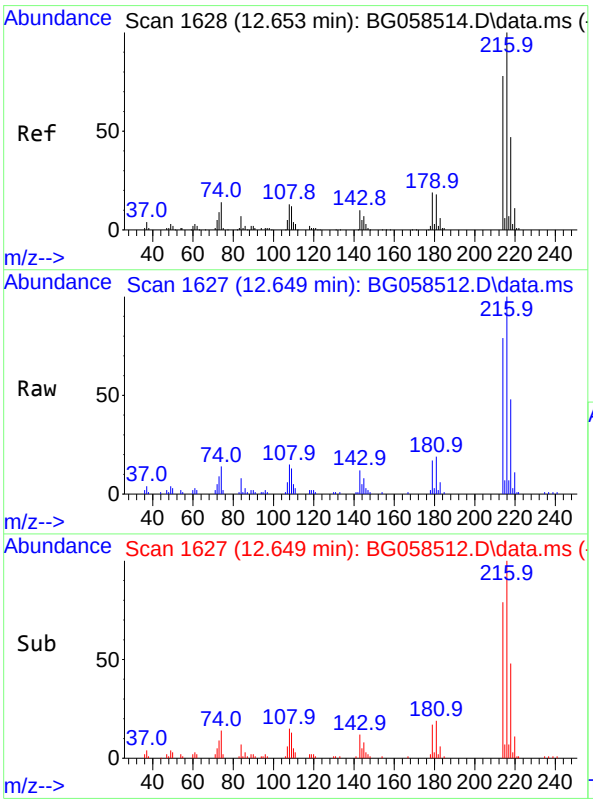
Ion	Ratio	Lower	Upper
164	100		
162	96.2	78.3	117.5
160	44.1	34.1	51.1



Instrument :
BNA_G
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

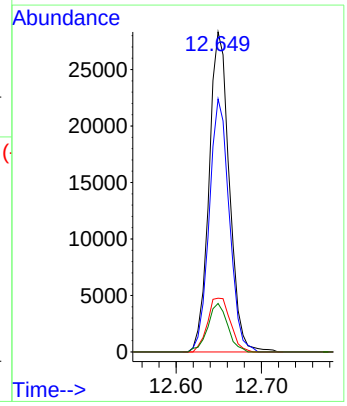
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

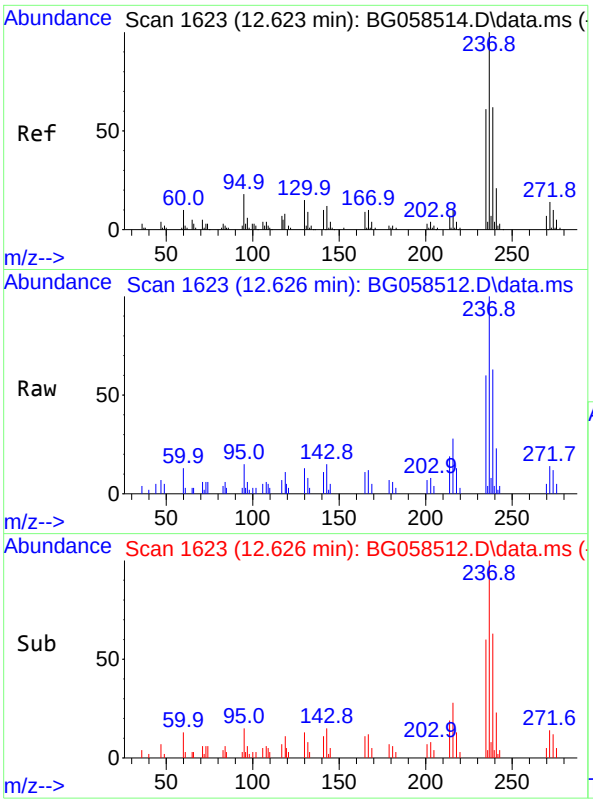


#40
1,2,4,5-Tetrachlorobenzene
Concen: 10.148 ng
RT: 12.649 min Scan# 1627
Delta R.T. -0.004 min
Lab File: BG058512.D
Acq: 28 Jul 2023 10:43

Tgt Ion:216 Resp: 46739

Ion	Ratio	Lower	Upper
216	100		
214	78.0	63.1	94.7
179	18.9	15.6	23.4
108	14.9	12.7	19.1

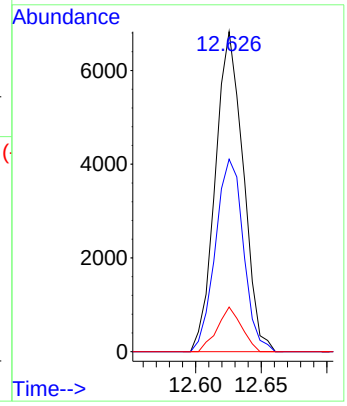




#41
Hexachlorocyclopentadiene
Concen: 11.134 ng
RT: 12.626 min Scan# 1
Delta R.T. 0.003 min
Lab File: BG058512.D
Acq: 28 Jul 2023 10:43

Tgt Ion:237 Resp: 1010

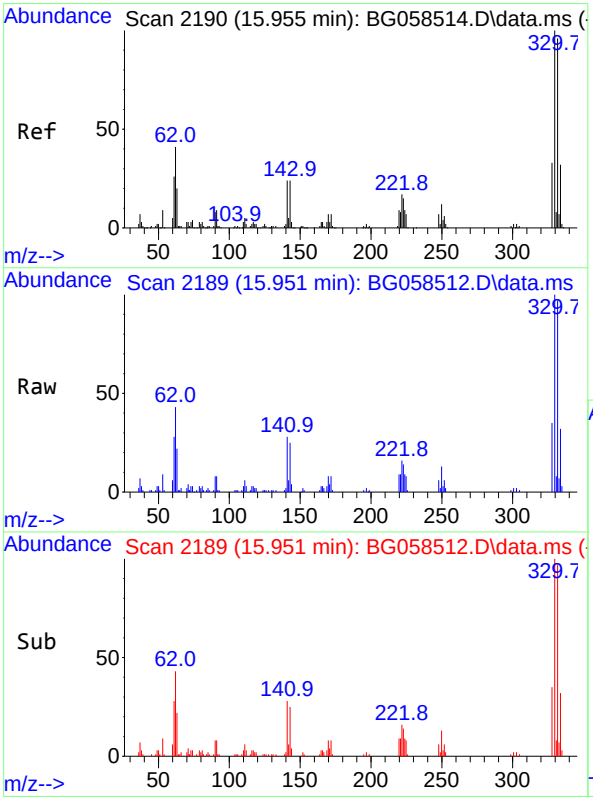
Ion	Ratio	Lower	Upper
237	100		
235	60.1	41.0	81.0
272	13.9	0.0	33.6



Instrument :
BNA_G
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

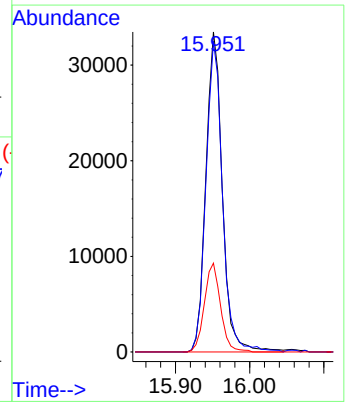
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

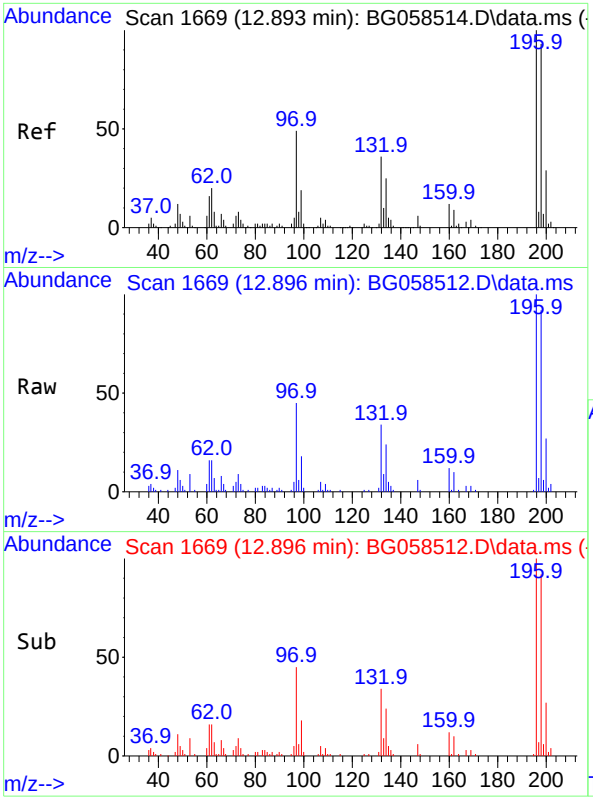


#42
2,4,6-Tribromophenol
Concen: 20.994 ng
RT: 15.951 min Scan# 2189
Delta R.T. -0.004 min
Lab File: BG058512.D
Acq: 28 Jul 2023 10:43

Tgt Ion:330 Resp: 51622

Ion	Ratio	Lower	Upper
330	100		
332	97.6	77.5	116.3
141	27.3	20.7	31.1

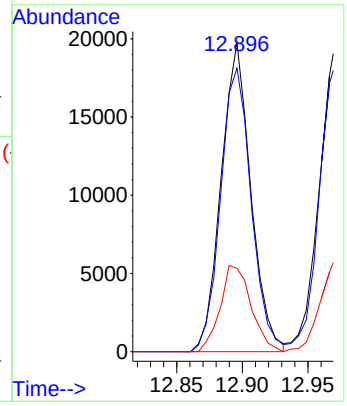




#43
2,4,6-Trichlorophenol
Concen: 9.795 ng
RT: 12.896 min Scan# 1
Delta R.T. 0.002 min
Lab File: BG058512.D
Acq: 28 Jul 2023 10:43

Tgt Ion:196 Resp: 3102

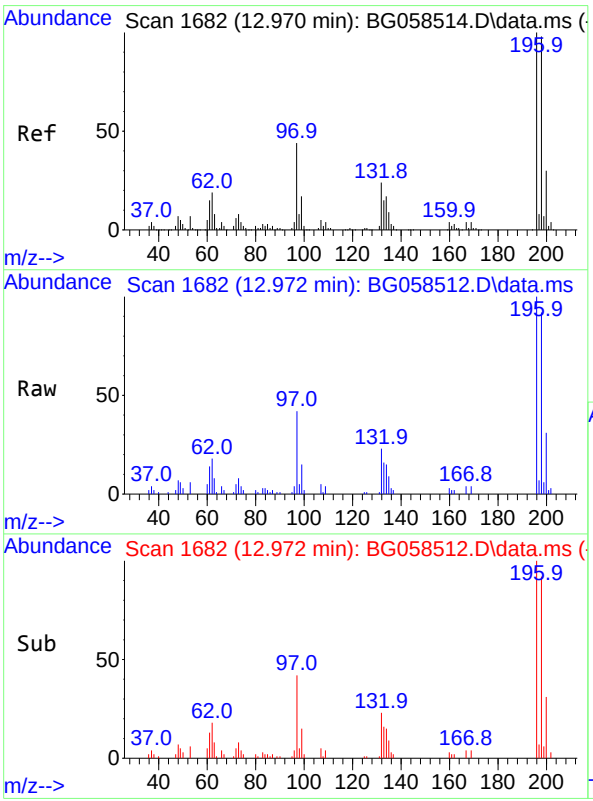
Ion	Ratio	Lower	Upper
196	100		
198	91.7	74.2	111.4
200	27.0	22.9	34.3



Instrument :
BNA_G
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

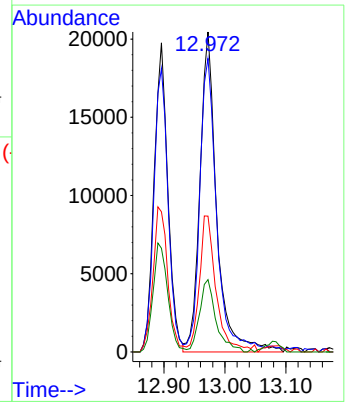
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

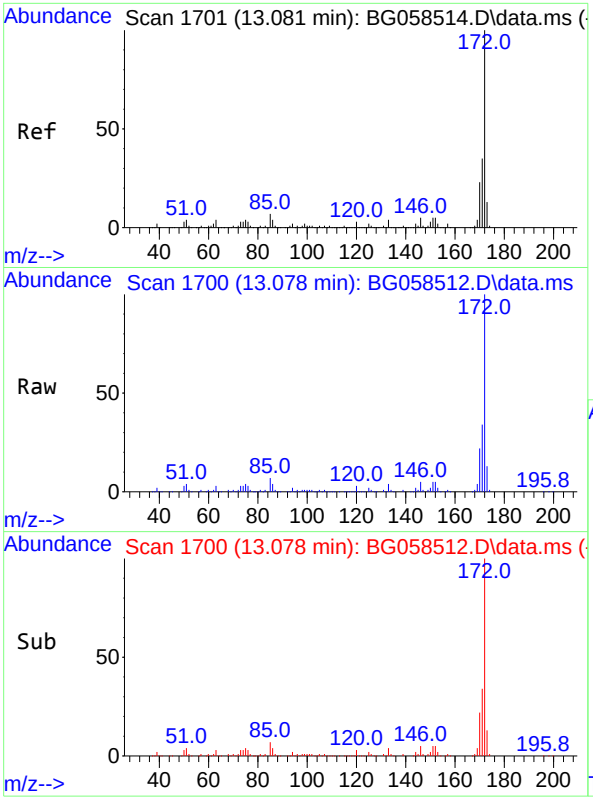


#44
2,4,5-Trichlorophenol
Concen: 10.482 ng
RT: 12.972 min Scan# 1682
Delta R.T. 0.002 min
Lab File: BG058512.D
Acq: 28 Jul 2023 10:43

Tgt Ion:196 Resp: 39113

Ion	Ratio	Lower	Upper
196	100		
198	91.7	78.3	117.5
97	42.4	35.2	52.8
132	22.6	19.4	29.0

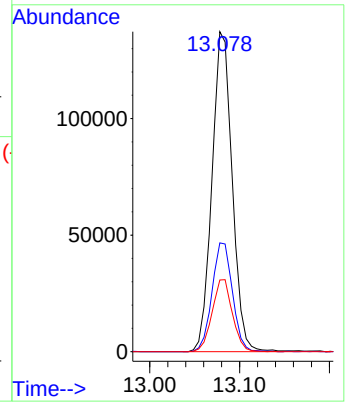




#45
2-Fluorobiphenyl
Concen: 21.412 ng
RT: 13.078 min Scan# 1
Delta R.T. -0.004 min
Lab File: BG058512.D
Acq: 28 Jul 2023 10:43

Tgt Ion:172 Resp: 21434

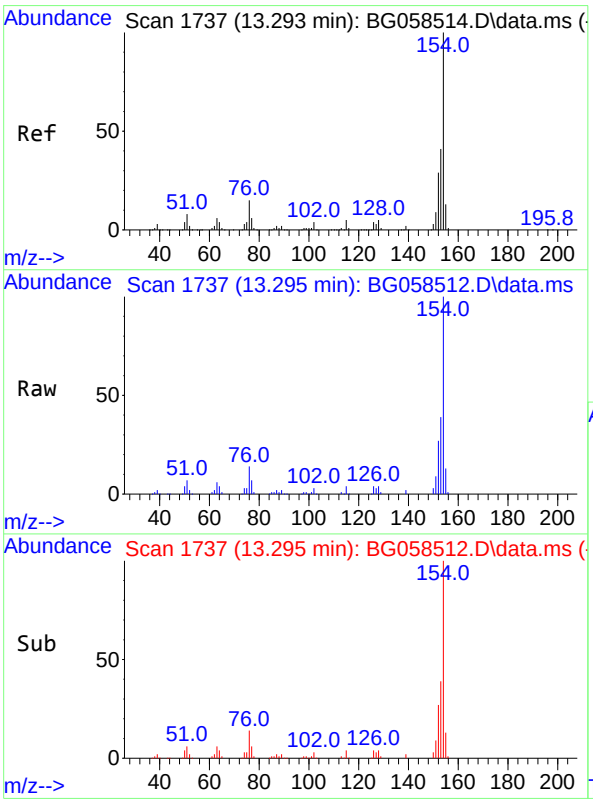
Ion	Ratio	Lower	Upper
172	100		
171	34.0	28.0	42.0
170	22.4	18.4	27.6



Instrument :
BNA_G
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

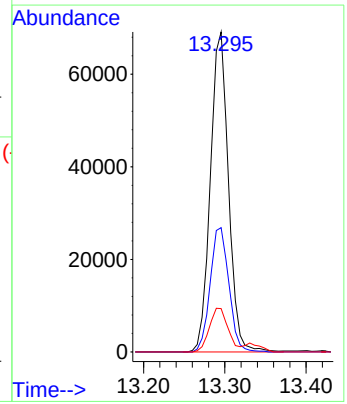
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

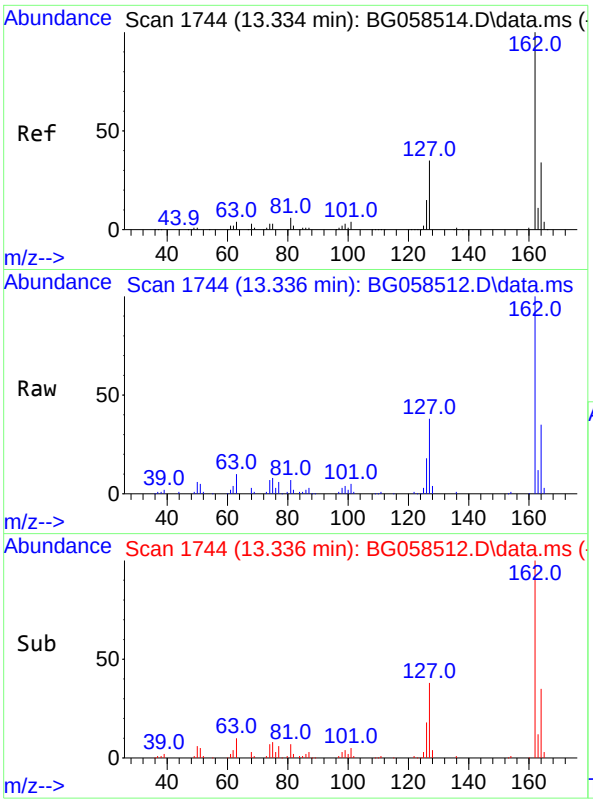


#46
1,1'-Biphenyl
Concen: 10.378 ng
RT: 13.295 min Scan# 1737
Delta R.T. 0.002 min
Lab File: BG058512.D
Acq: 28 Jul 2023 10:43

Tgt Ion:154 Resp: 106922

Ion	Ratio	Lower	Upper
154	100		
153	38.8	21.2	61.2
76	13.6	0.0	34.7

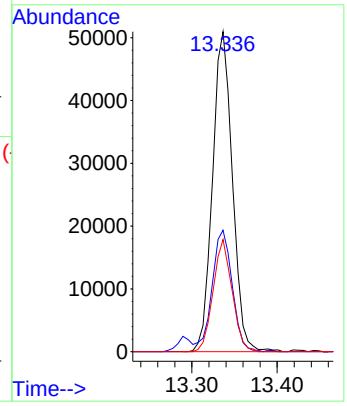




#47
2-Chloronaphthalene
Concen: 10.293 ng
RT: 13.336 min Scan# 1
Delta R.T. 0.002 min
Lab File: BG058512.D
Acq: 28 Jul 2023 10:43

Tgt Ion:162 Resp: 8268

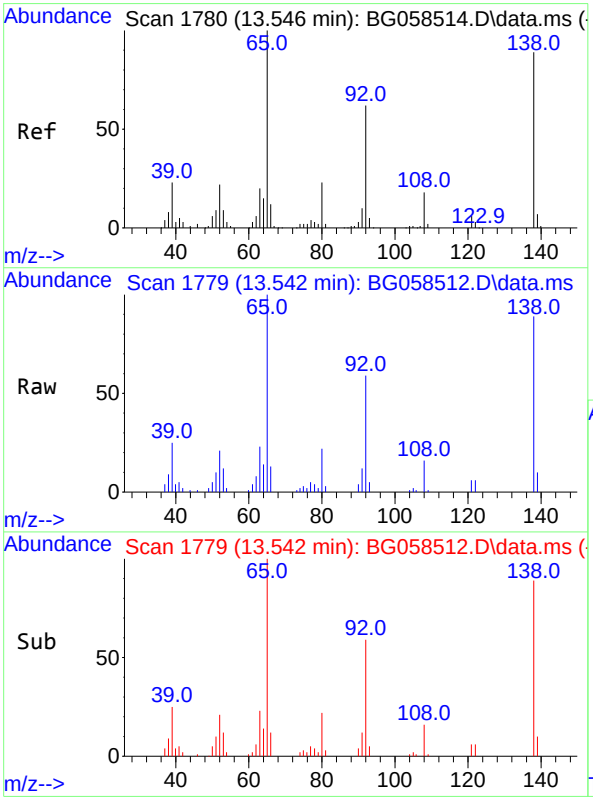
Ion	Ratio	Lower	Upper
162	100		
127	38.0	30.9	46.3
164	35.0	27.2	40.8



Instrument :
BNA_G
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

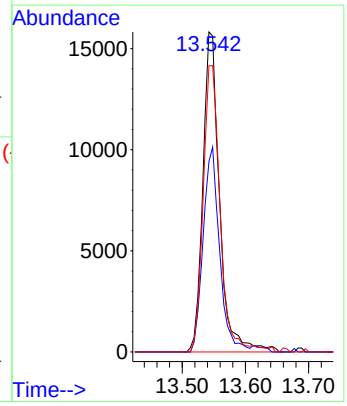
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

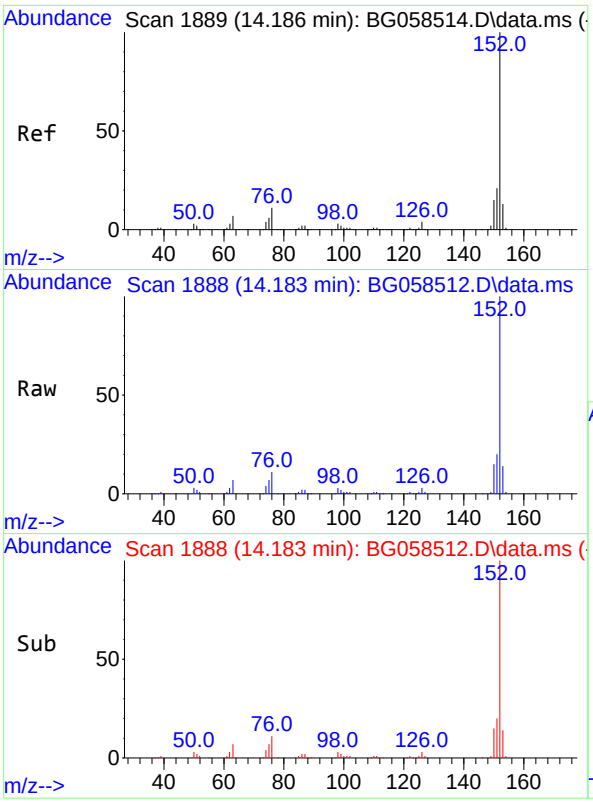


#48
2-Nitroaniline
Concen: 9.416 ng
RT: 13.542 min Scan# 1779
Delta R.T. -0.004 min
Lab File: BG058512.D
Acq: 28 Jul 2023 10:43

Tgt Ion: 65 Resp: 28870

Ion	Ratio	Lower	Upper
65	100		
92	59.5	49.2	73.8
138	89.5	71.5	107.3

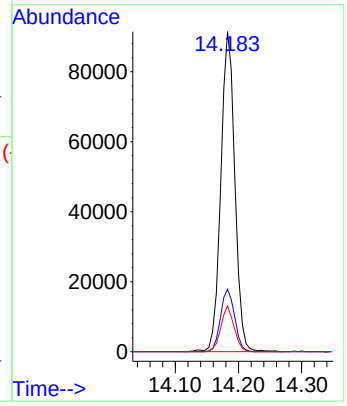




#49
Acenaphthylene
Concen: 10.464 ng
RT: 14.183 min Scan# 1
Delta R.T. -0.004 min
Lab File: BG058512.D
Acq: 28 Jul 2023 10:43

Tgt Ion:152 Resp: 14073

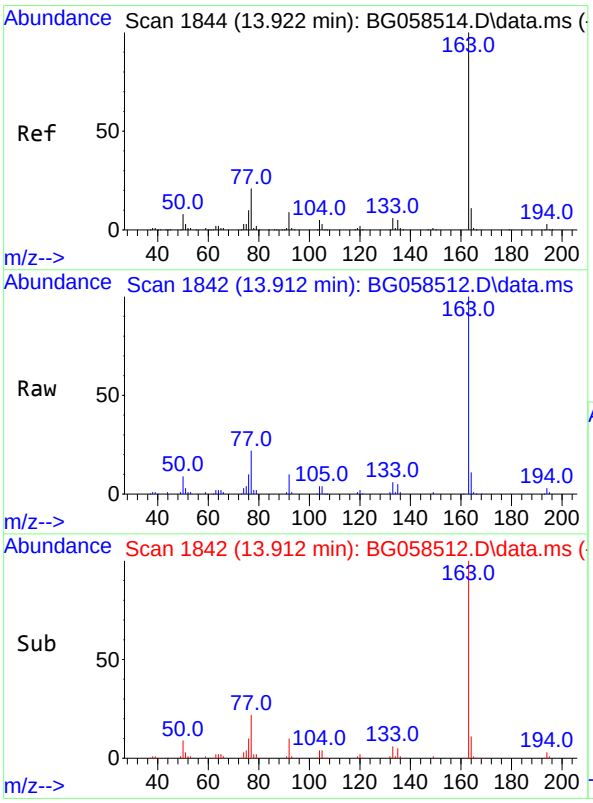
Ion	Ratio	Lower	Upper
152	100		
151	19.6	16.5	24.7
153	14.3	10.7	16.1



Instrument :
BNA_G
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

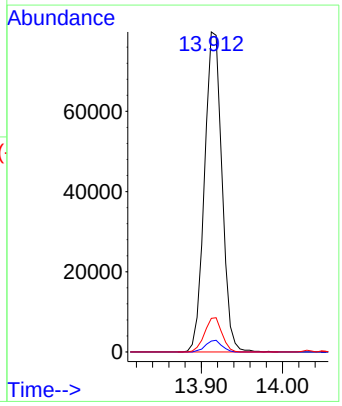
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

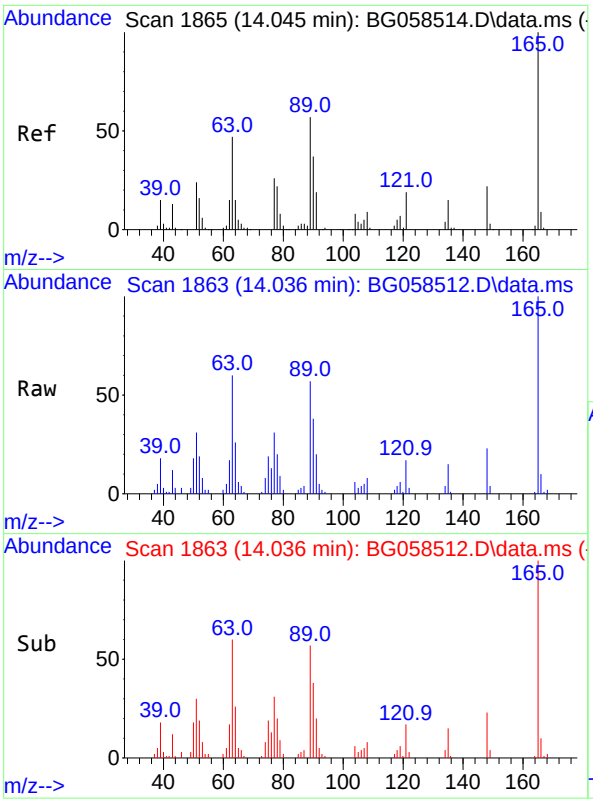


#50
Dimethylphthalate
Concen: 10.539 ng
RT: 13.912 min Scan# 1842
Delta R.T. -0.009 min
Lab File: BG058512.D
Acq: 28 Jul 2023 10:43

Tgt Ion:163 Resp: 118739

Ion	Ratio	Lower	Upper
163	100		
194	3.4	2.7	4.1
164	10.5	8.6	12.8

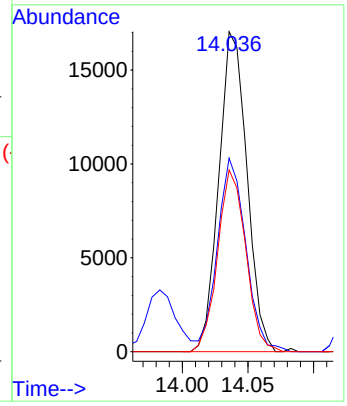




#51
2,6-Dinitrotoluene
Concen: 10.258 ng
RT: 14.036 min Scan# 1
Delta R.T. -0.009 min
Lab File: BG058512.D
Acq: 28 Jul 2023 10:43

Tgt Ion:165 Resp: 2536

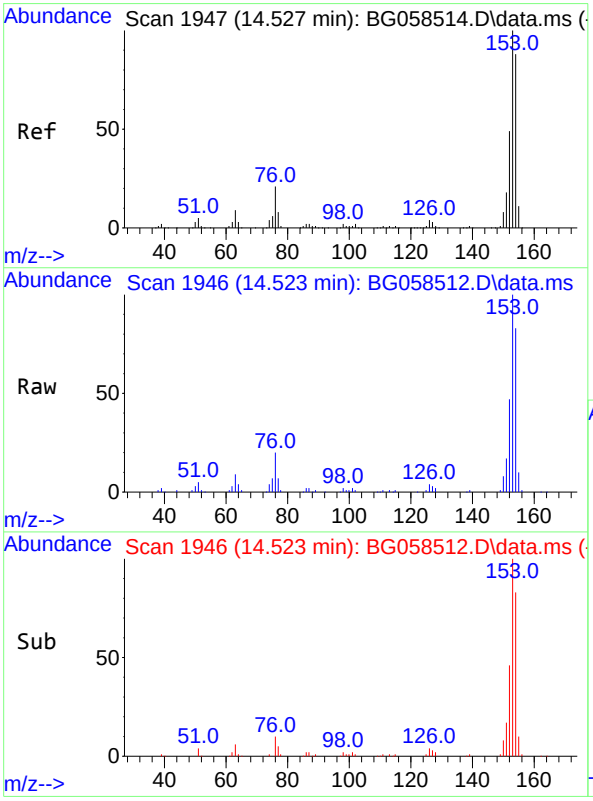
Ion	Ratio	Lower	Upper
165	100		
63	60.4	46.4	69.6
89	56.8	45.3	67.9



Instrument :
BNA_G
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

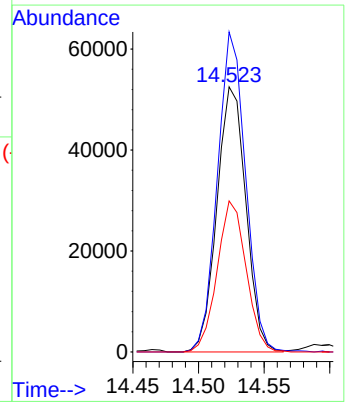
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

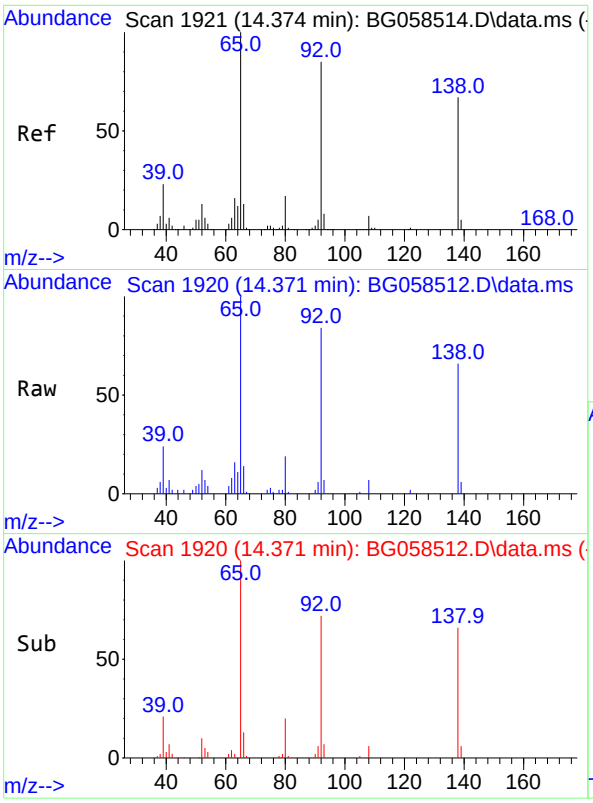


#52
Acenaphthene
Concen: 10.392 ng
RT: 14.523 min Scan# 1946
Delta R.T. -0.004 min
Lab File: BG058512.D
Acq: 28 Jul 2023 10:43

Tgt Ion:154 Resp: 80755

Ion	Ratio	Lower	Upper
154	100		
153	120.7	91.1	136.7
152	57.0	44.6	66.8

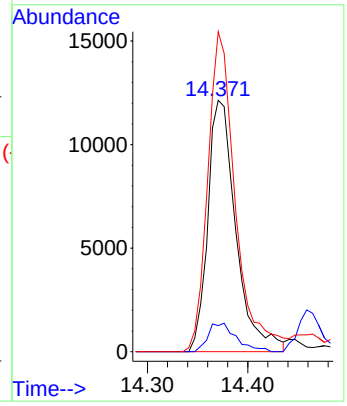




#53
3-Nitroaniline
Concen: 9.562 ng
RT: 14.371 min Scan# 1
Delta R.T. -0.004 min
Lab File: BG058512.D
Acq: 28 Jul 2023 10:43

Tgt Ion:138 Resp: 2365

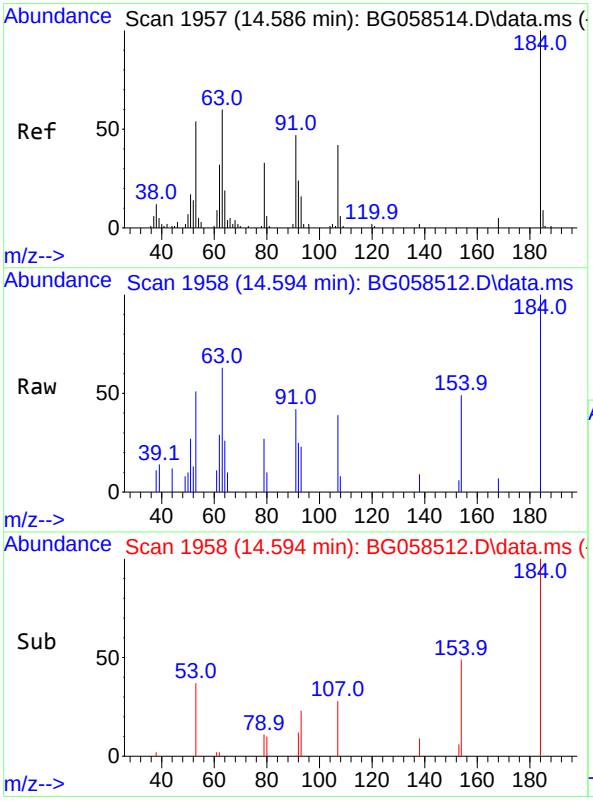
Ion	Ratio	Lower	Upper
138	100		
108	10.4	8.3	12.5
92	127.3	101.1	151.7



Instrument :
BNA_G
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

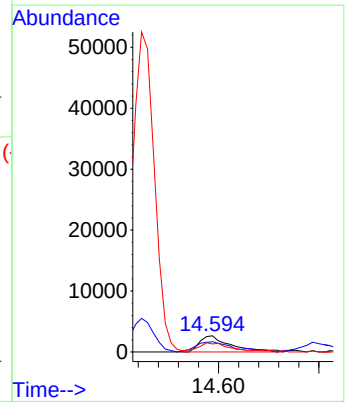
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

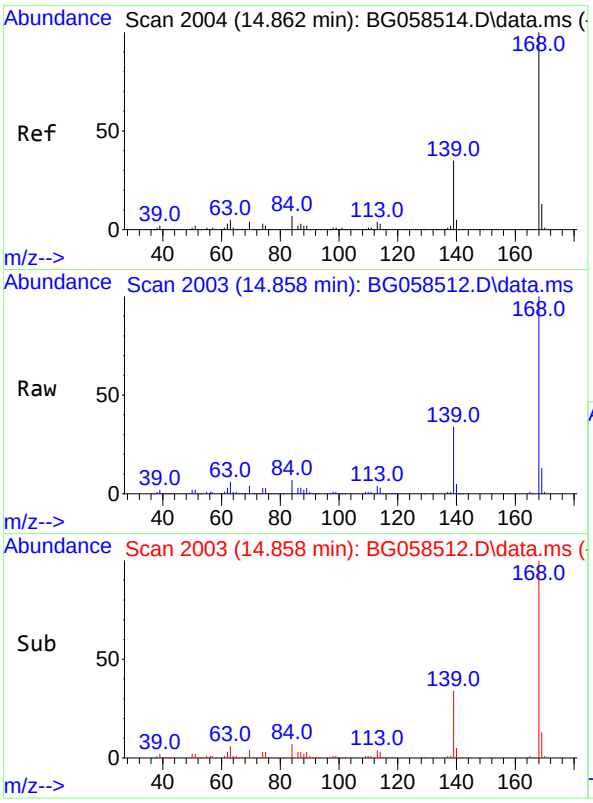


#54
2,4-Dinitrophenol
Concen: 11.172 ng
RT: 14.594 min Scan# 1958
Delta R.T. 0.008 min
Lab File: BG058512.D
Acq: 28 Jul 2023 10:43

Tgt Ion:184 Resp: 5669

Ion	Ratio	Lower	Upper
184	100		
63	62.7	56.7	85.1
154	49.4	46.1	69.1

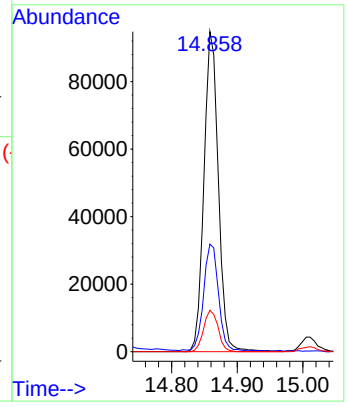




#55
Dibenzofuran
Concen: 10.847 ng
RT: 14.858 min Scan# 2
Delta R.T. -0.004 min
Lab File: BG058512.D
Acq: 28 Jul 2023 10:43

Tgt Ion:168 Resp: 14484

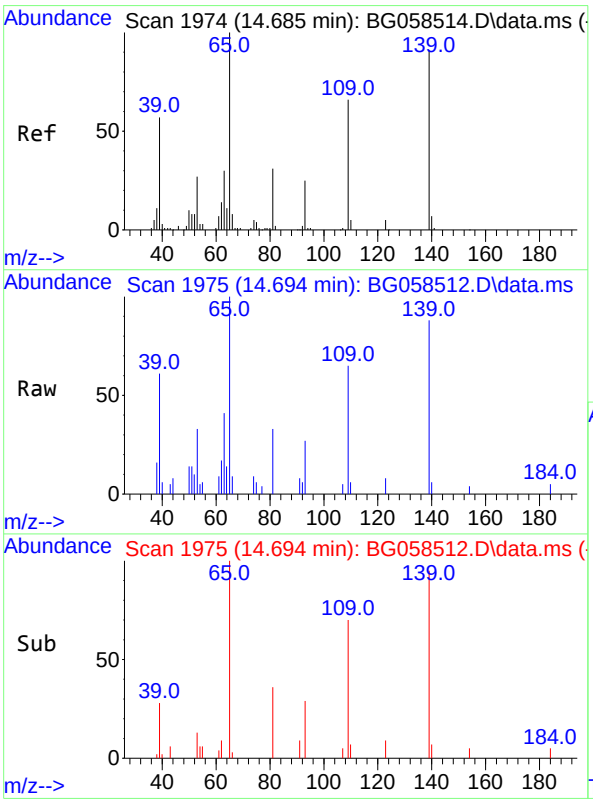
Ion	Ratio	Lower	Upper
168	100		
139	33.6	27.8	41.8
169	13.0	10.6	16.0



Instrument :
BNA_G
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

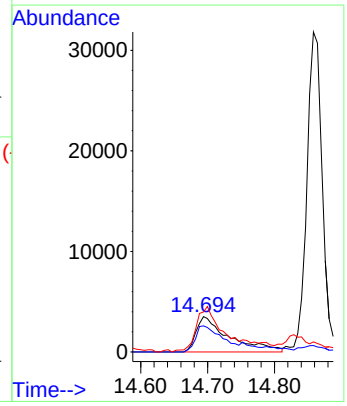
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

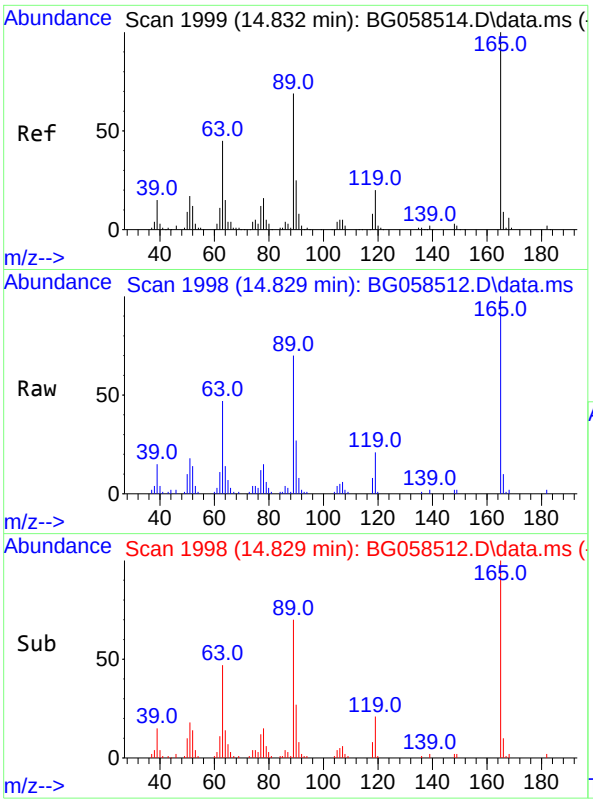


#56
4-Nitrophenol
Concen: 9.999 ng m
RT: 14.694 min Scan# 1975
Delta R.T. 0.009 min
Lab File: BG058512.D
Acq: 28 Jul 2023 10:43

Tgt Ion:139 Resp: 12064

Ion	Ratio	Lower	Upper
139	100		
109	73.8	52.5	92.5
65	113.0	90.5	130.5

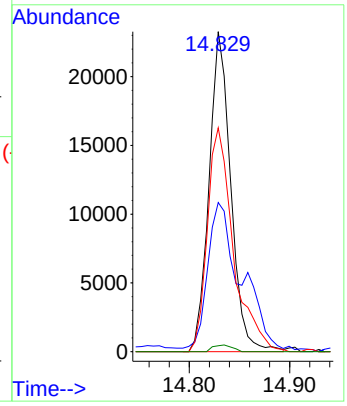




#57
2,4-Dinitrotoluene
Concen: 10.190 ng
RT: 14.829 min Scan# 1
Delta R.T. -0.003 min
Lab File: BG058512.D
Acq: 28 Jul 2023 10:43

Tgt Ion:165 Resp: 3492

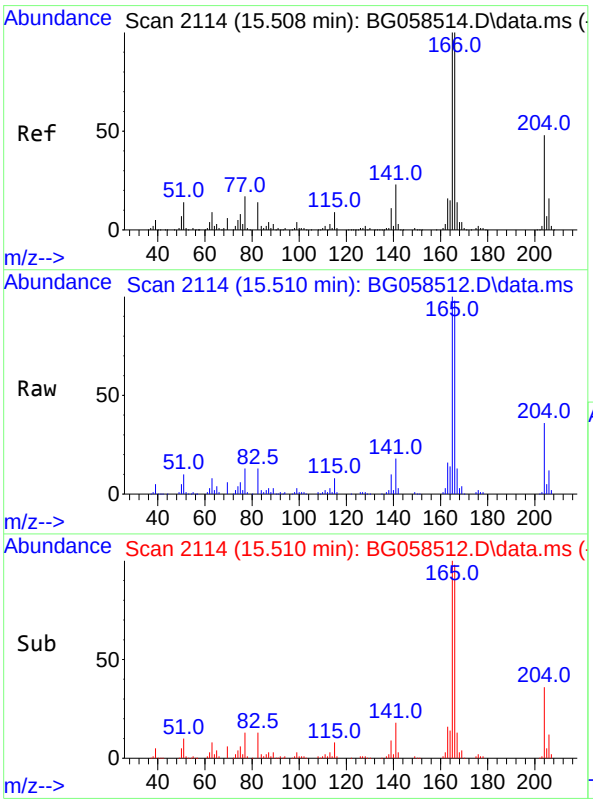
Ion	Ratio	Lower	Upper
165	100		
63	46.6	36.6	54.8
89	70.0	55.4	83.0
182	1.8	1.8	2.6



Instrument :
BNA_G
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

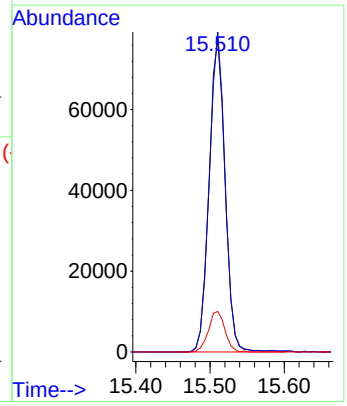
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

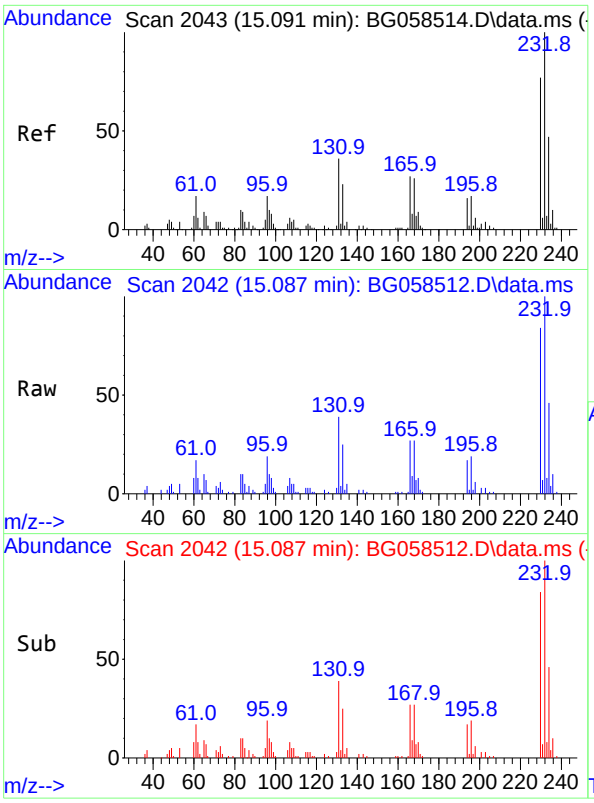


#58
Fluorene
Concen: 10.946 ng
RT: 15.510 min Scan# 2114
Delta R.T. 0.002 min
Lab File: BG058512.D
Acq: 28 Jul 2023 10:43

Tgt Ion:166 Resp: 116110

Ion	Ratio	Lower	Upper
166	100		
165	102.3	80.0	120.0
167	12.9	11.3	16.9

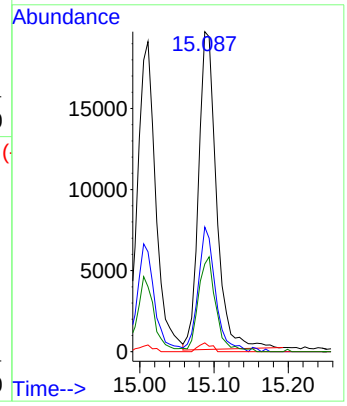




#59
2,3,4,6-Tetrachlorophenol
Concen: 10.307 ng
RT: 15.087 min Scan# 2
Delta R.T. -0.004 min
Lab File: BG058512.D
Acq: 28 Jul 2023 10:43

Tgt Ion:232 Resp: 3281

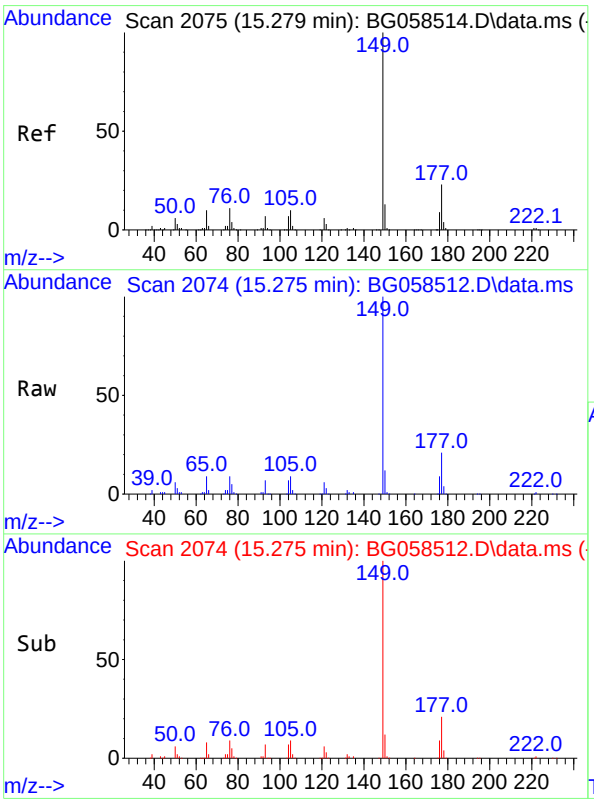
Ion	Ratio	Lower	Upper
232	100		
131	37.8	30.0	45.0
130	2.0	1.5	2.3
166	29.7	22.8	34.2



Instrument :
BNA_G
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

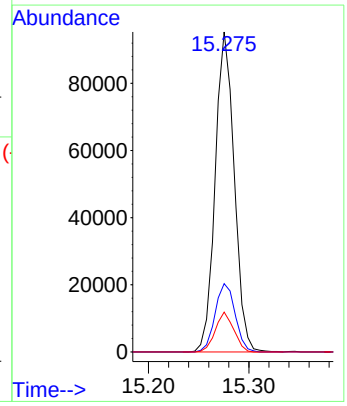
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

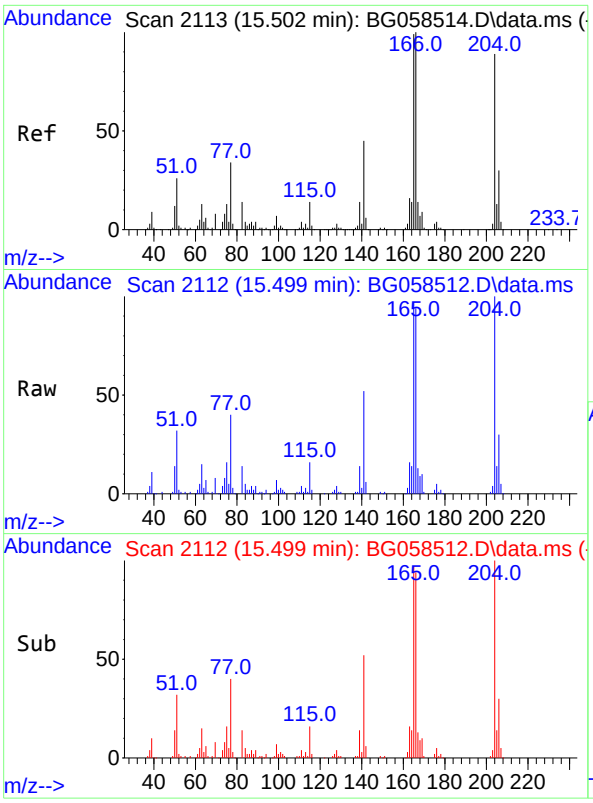


#60
Diethylphthalate
Concen: 10.963 ng
RT: 15.275 min Scan# 2074
Delta R.T. -0.004 min
Lab File: BG058512.D
Acq: 28 Jul 2023 10:43

Tgt Ion:149 Resp: 125829

Ion	Ratio	Lower	Upper
149	100		
177	21.4	18.2	27.4
150	12.5	10.2	15.4

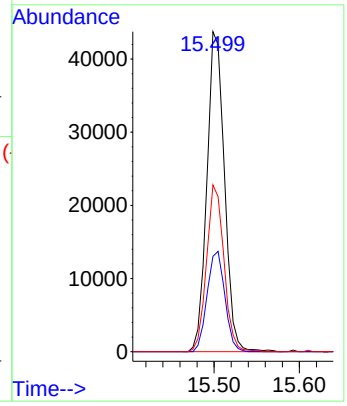




#61
4-Chlorophenyl-phenylether
Concen: 10.578 ng
RT: 15.499 min Scan# 21
Delta R.T. -0.004 min
Lab File: BG058512.D
Acq: 28 Jul 2023 10:43

Tgt Ion:204 Resp: 6255

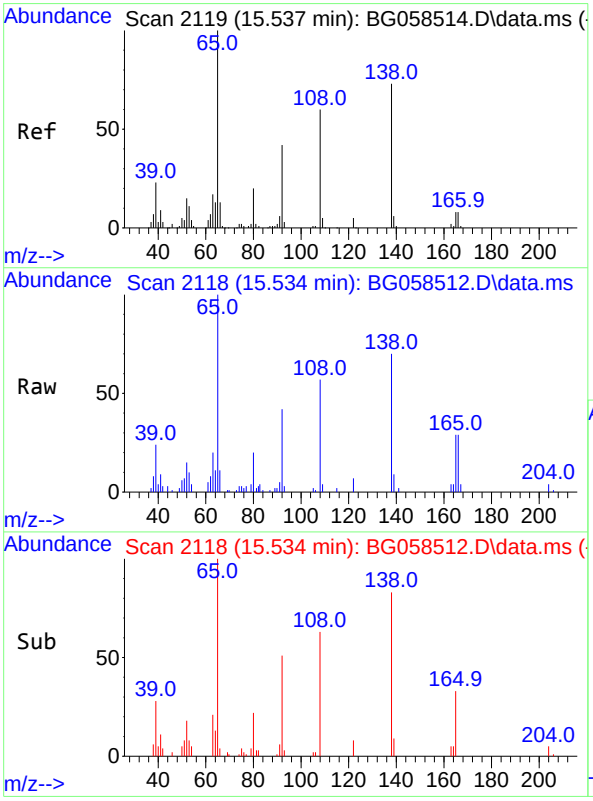
Ion	Ratio	Lower	Upper
204	100		
206	29.8	27.0	40.4
141	52.1	40.8	61.2



Instrument :
BNA_G
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

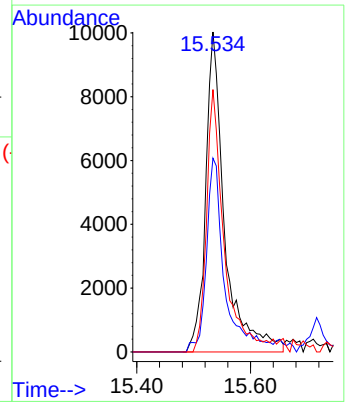
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

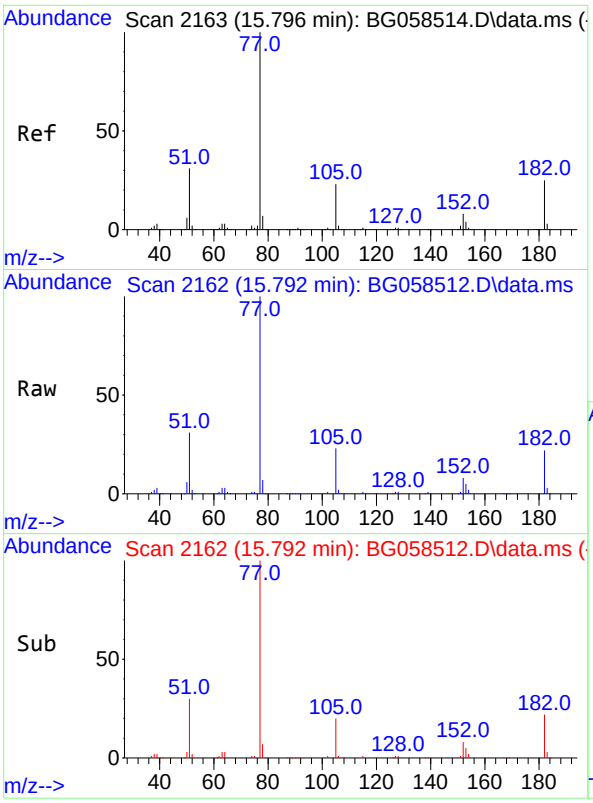


#62
4-Nitroaniline
Concen: 10.019 ng
RT: 15.534 min Scan# 2118
Delta R.T. -0.004 min
Lab File: BG058512.D
Acq: 28 Jul 2023 10:43

Tgt Ion:138 Resp: 23288

Ion	Ratio	Lower	Upper
138	100		
92	60.6	37.3	77.3
108	82.0	62.6	102.6

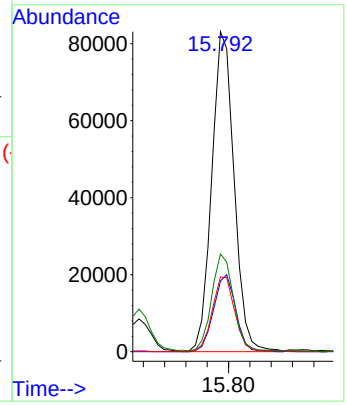




#63
Azobenzene
Concen: 10.718 ng
RT: 15.792 min Scan# 21
Delta R.T. -0.004 min
Lab File: BG058512.D
Acq: 28 Jul 2023 10:43

Tgt Ion: 77 Resp: 12117

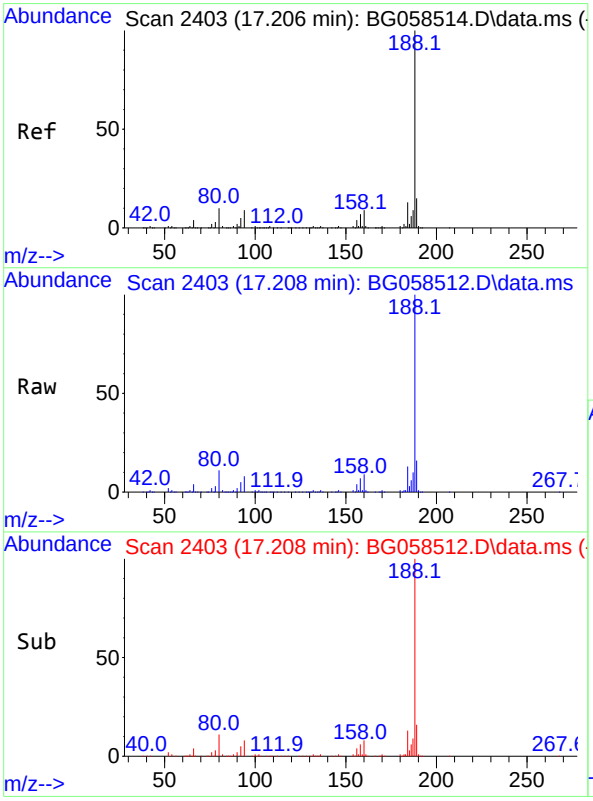
Ion	Ratio	Lower	Upper
77	100		
182	22.1	4.6	44.6
105	23.3	3.3	43.3
51	30.6	10.9	50.9



Instrument :
BNA_G
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

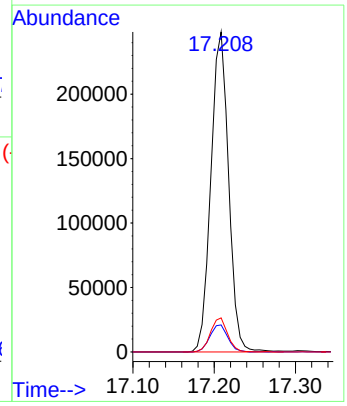
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

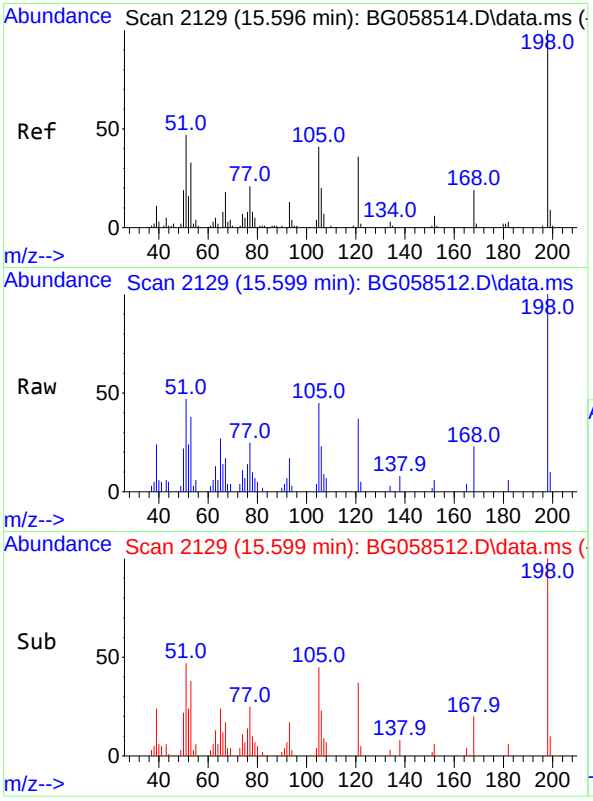


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.208 min Scan# 2403
Delta R.T. 0.002 min
Lab File: BG058512.D
Acq: 28 Jul 2023 10:43

Tgt Ion:188 Resp: 375234

Ion	Ratio	Lower	Upper
188	100		
94	8.4	7.0	10.6
80	10.7	8.1	12.1

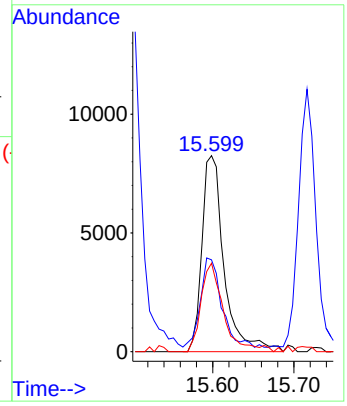




#65
4,6-Dinitro-2-methylphenol
Concen: 7.553 ng
RT: 15.599 min Scan# 21
Delta R.T. 0.003 min
Lab File: BG058512.D
Acq: 28 Jul 2023 10:43

Tgt Ion:198 Resp: 1562

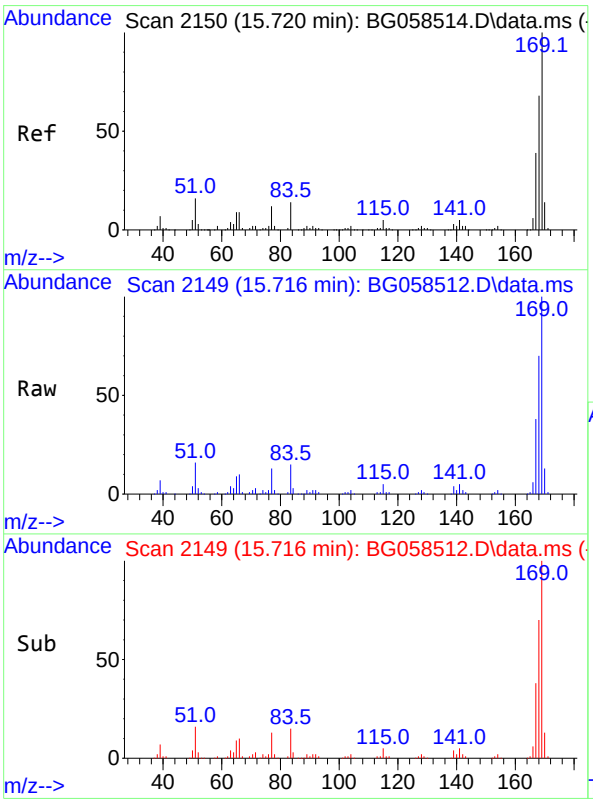
Ion	Ratio	Lower	Upper
198	100		
51	46.8	29.3	69.3
105	45.1	21.0	61.0



Instrument :
BNA_G
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

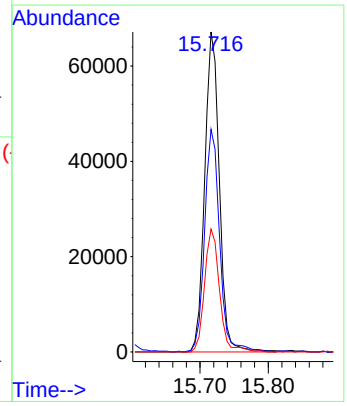
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

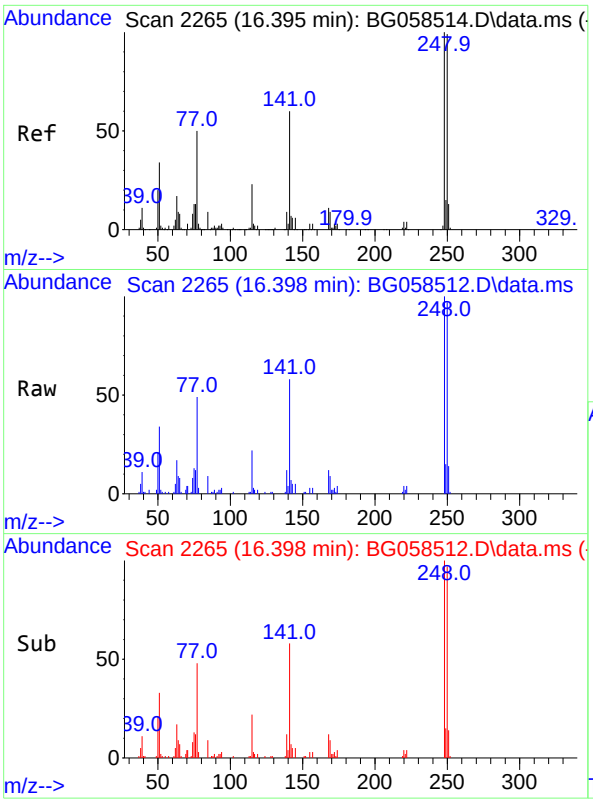


#66
n-Nitrosodiphenylamine
Concen: 10.272 ng
RT: 15.716 min Scan# 2149
Delta R.T. -0.004 min
Lab File: BG058512.D
Acq: 28 Jul 2023 10:43

Tgt Ion:169 Resp: 100318

Ion	Ratio	Lower	Upper
169	100		
168	69.5	54.6	82.0
167	38.4	31.3	46.9

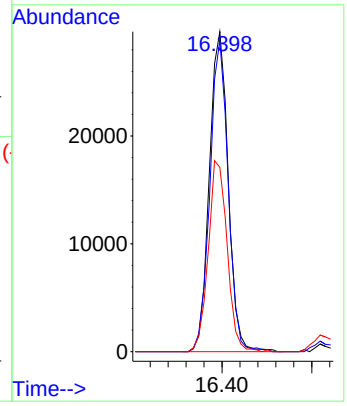




#67
4-Bromophenyl-phenylether
Concen: 10.123 ng
RT: 16.398 min Scan# 2
Delta R.T. 0.002 min
Lab File: BG058512.D
Acq: 28 Jul 2023 10:43

Tgt Ion:248 Resp: 4308

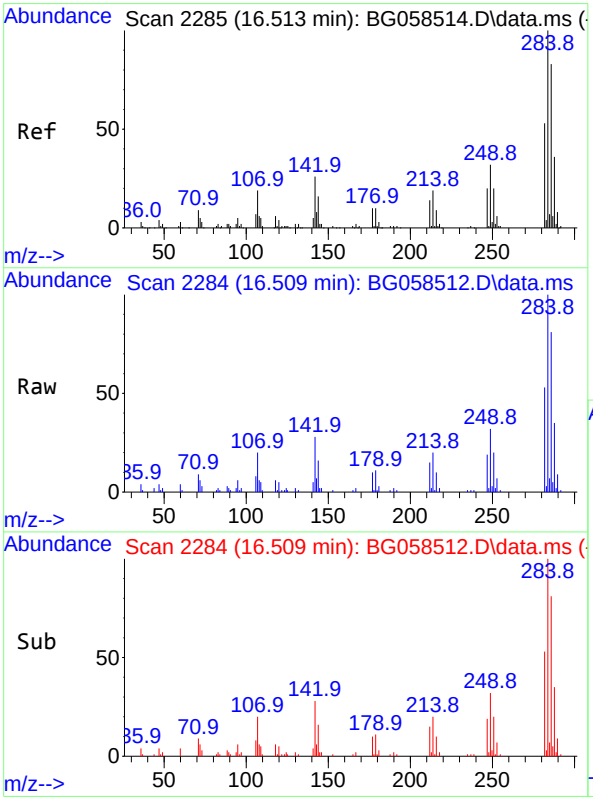
Ion	Ratio	Lower	Upper
248	100		
250	97.3	79.5	119.3
141	57.6	48.2	72.2



Instrument :
BNA_G
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

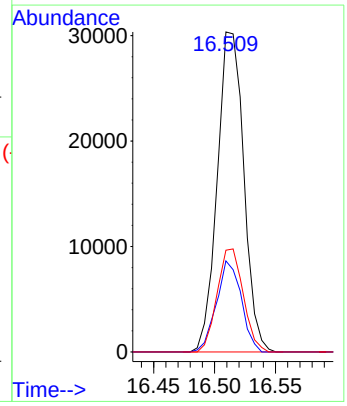
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

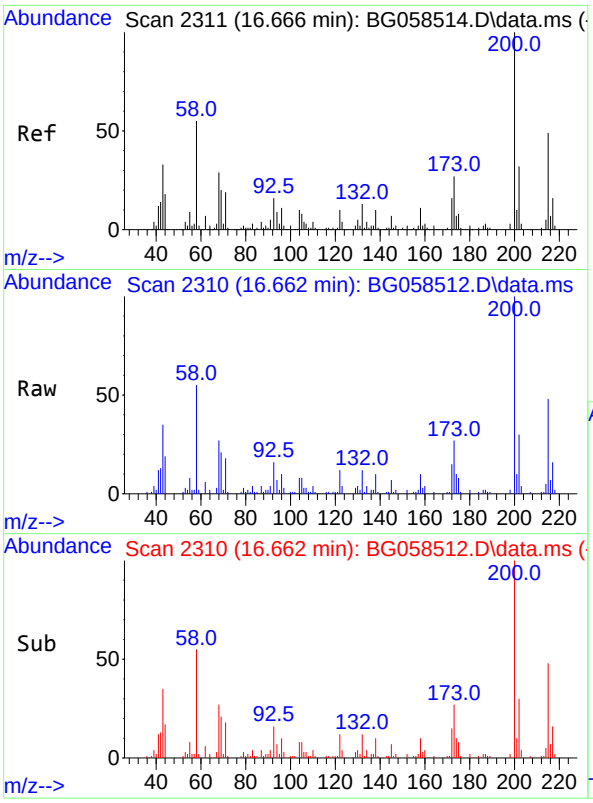


#68
Hexachlorobenzene
Concen: 10.180 ng
RT: 16.509 min Scan# 2284
Delta R.T. -0.004 min
Lab File: BG058512.D
Acq: 28 Jul 2023 10:43

Tgt Ion:284 Resp: 45910

Ion	Ratio	Lower	Upper
284	100		
142	28.5	21.0	31.4
249	31.8	25.5	38.3

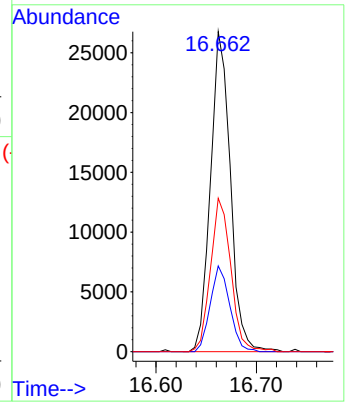




#69
Atrazine
Concen: 11.183 ng
RT: 16.662 min Scan# 2
Delta R.T. -0.004 min
Lab File: BG058512.D
Acq: 28 Jul 2023 10:43

Tgt Ion:200 Resp: 3687

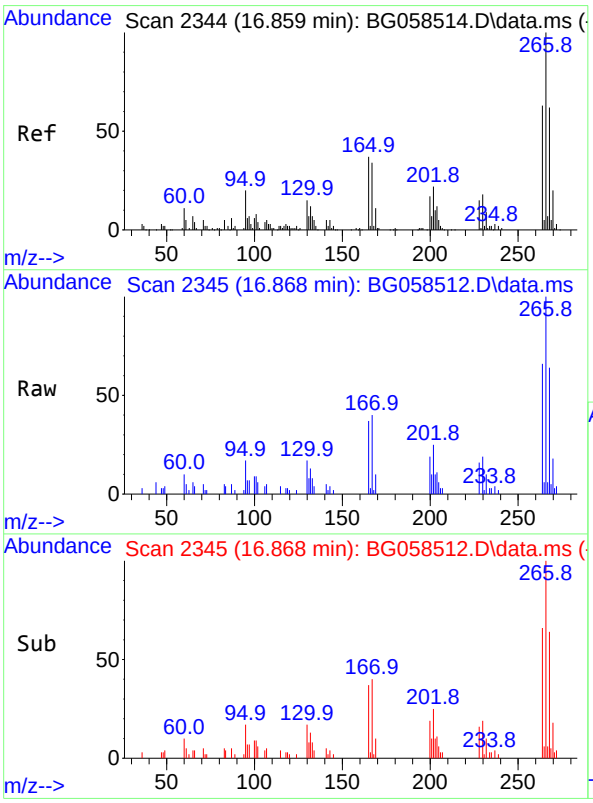
Ion	Ratio	Lower	Upper
200	100		
173	26.8	6.5	46.5
215	47.9	28.9	68.9



Instrument :
BNA_G
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

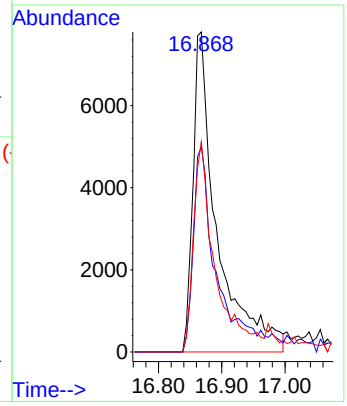
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

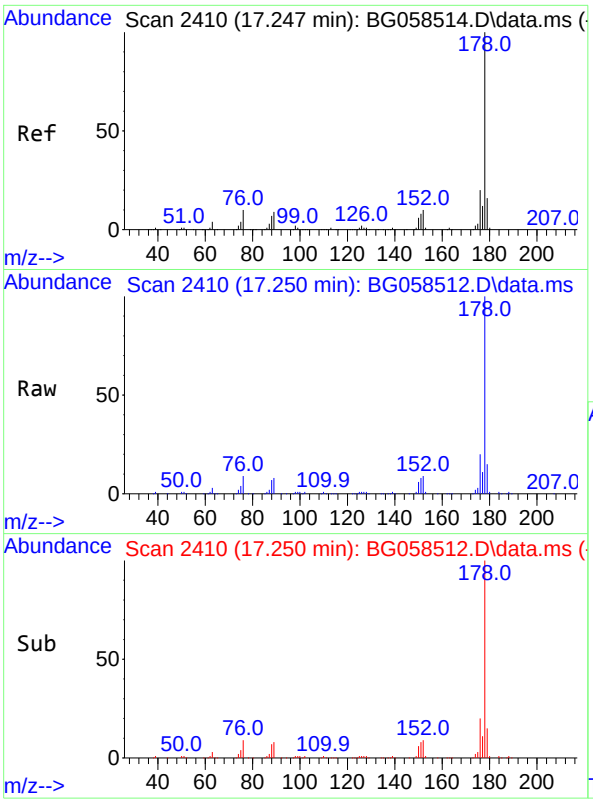


#70
Pentachlorophenol
Concen: 7.578 ng m
RT: 16.868 min Scan# 2345
Delta R.T. 0.009 min
Lab File: BG058512.D
Acq: 28 Jul 2023 10:43

Tgt Ion:266 Resp: 20593

Ion	Ratio	Lower	Upper
266	100		
268	64.0	49.9	74.9
264	65.6	50.2	75.4

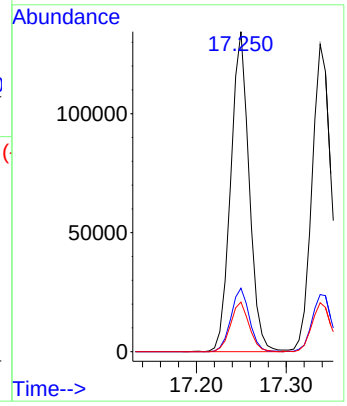




#71
Phenanthrene
Concen: 10.743 ng
RT: 17.250 min Scan# 24
Delta R.T. 0.002 min
Lab File: BG058512.D
Acq: 28 Jul 2023 10:43

Tgt Ion:178 Resp: 19116

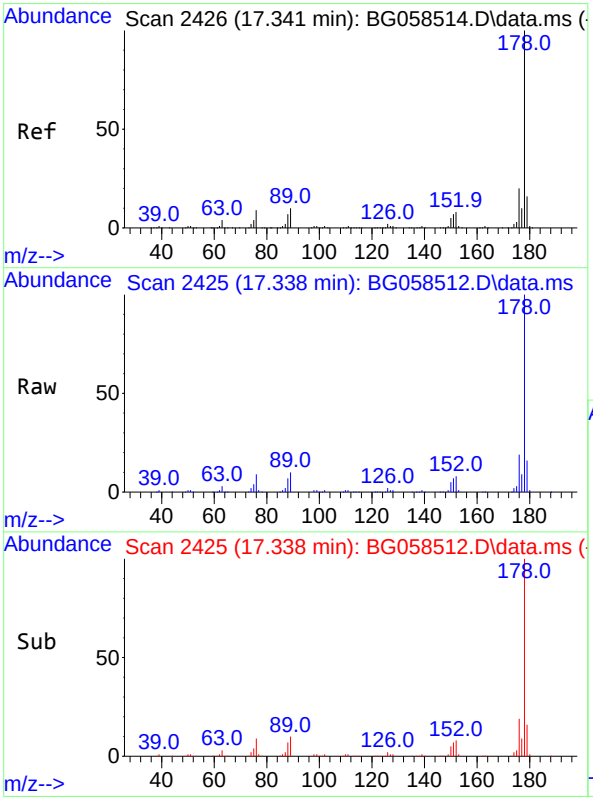
Ion	Ratio	Lower	Upper
178	100		
176	19.9	16.3	24.5
179	15.5	13.1	19.7



Instrument :
BNA_G
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

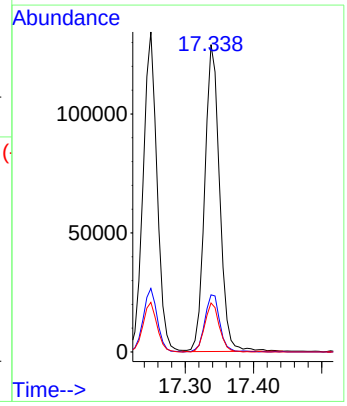
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

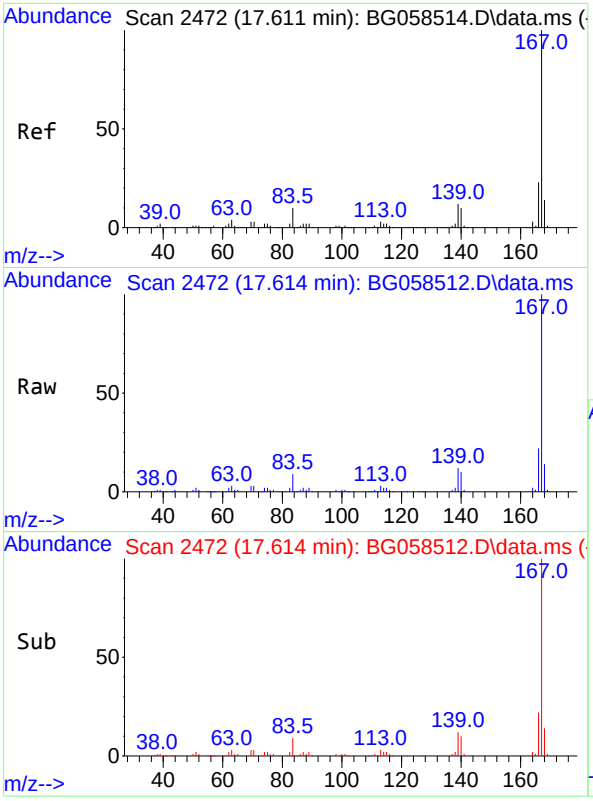


#72
Anthracene
Concen: 10.704 ng
RT: 17.338 min Scan# 2425
Delta R.T. -0.004 min
Lab File: BG058512.D
Acq: 28 Jul 2023 10:43

Tgt Ion:178 Resp: 195447

Ion	Ratio	Lower	Upper
178	100		
176	18.6	16.0	24.0
179	16.0	12.9	19.3

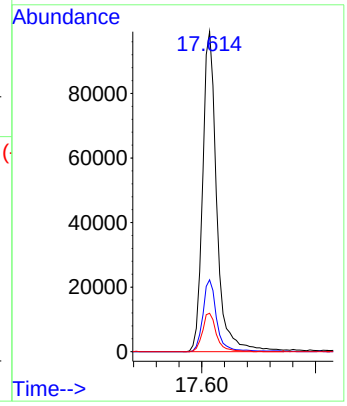




#73
Carbazole
Concen: 10.639 ng
RT: 17.614 min Scan# 24
Delta R.T. 0.002 min
Lab File: BG058512.D
Acq: 28 Jul 2023 10:43

Tgt Ion:167 Resp: 17131

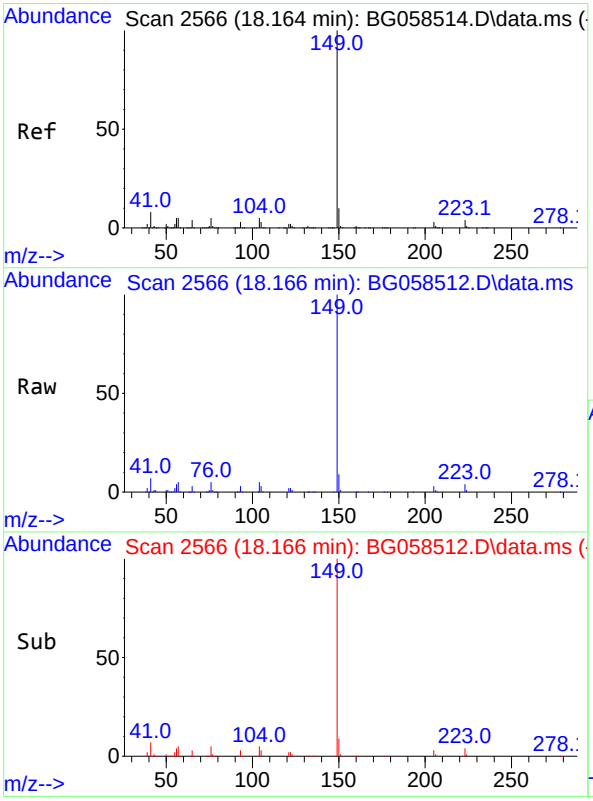
Ion	Ratio	Lower	Upper
167	100		
166	22.5	18.4	27.6
139	12.0	10.0	15.0



Instrument :
BNA_G
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

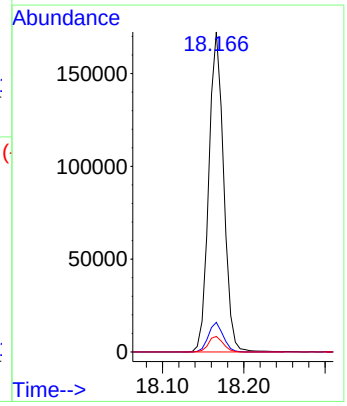
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

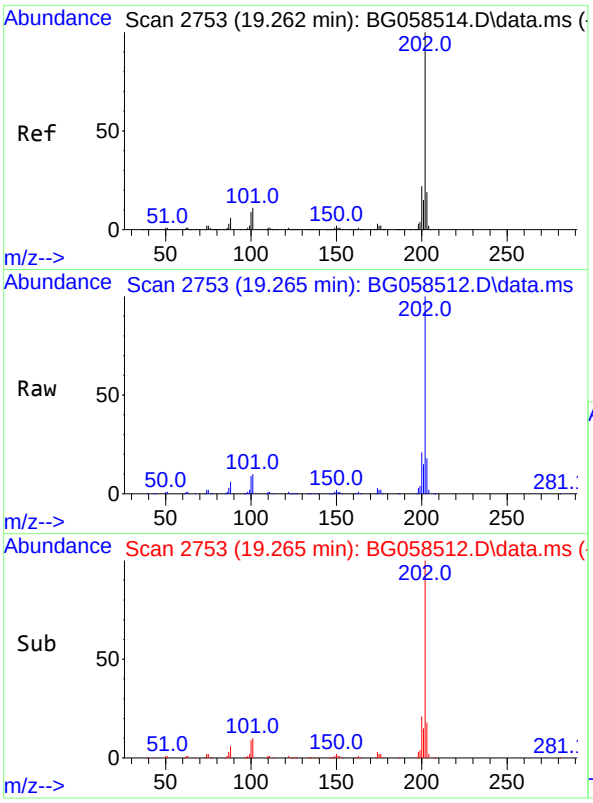


#74
Di-n-butylphthalate
Concen: 10.827 ng
RT: 18.166 min Scan# 2566
Delta R.T. 0.002 min
Lab File: BG058512.D
Acq: 28 Jul 2023 10:43

Tgt Ion:149 Resp: 218357

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.8	11.6
104	4.8	4.0	6.0





#75
Fluoranthene
Concen: 10.923 ng
RT: 19.265 min Scan# 2
Delta R.T. 0.002 min
Lab File: BG058512.D
Acq: 28 Jul 2023 10:43

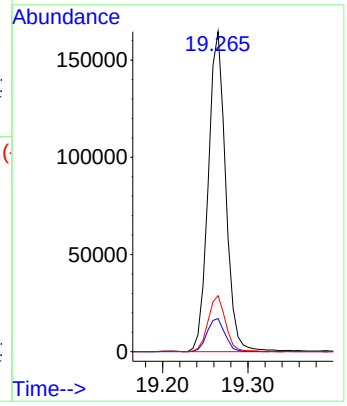
Tgt Ion:202 Resp: 23349

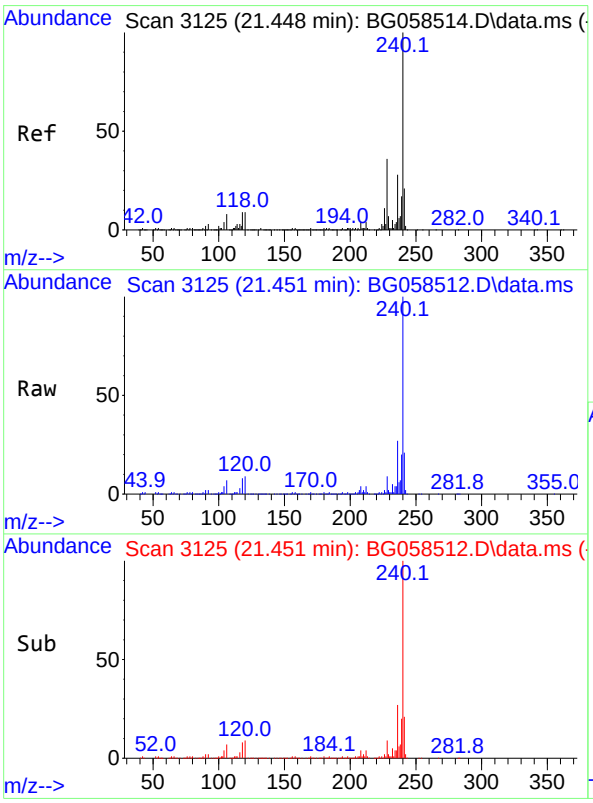
Ion	Ratio	Lower	Upper
202	100		
101	10.4	0.0	31.4
203	17.5	0.0	39.0

Instrument :
BNA_G
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

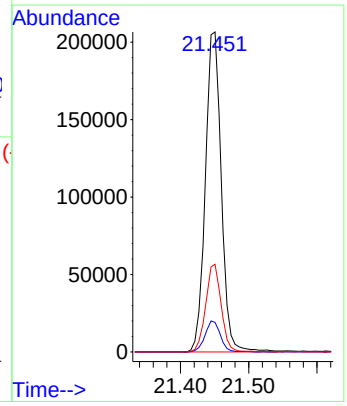


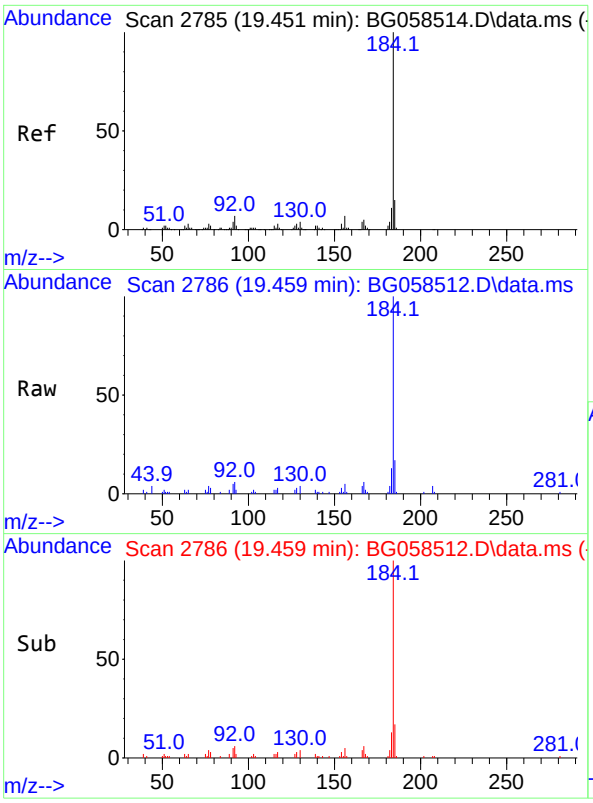


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.451 min Scan# 3125
Delta R.T. 0.002 min
Lab File: BG058512.D
Acq: 28 Jul 2023 10:43

Tgt Ion:240 Resp: 335801

Ion	Ratio	Lower	Upper
240	100		
120	9.2	7.4	11.0
236	27.4	22.2	33.4

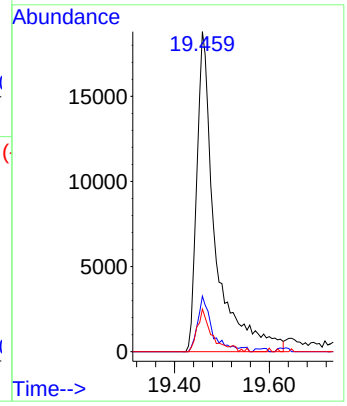




#77
Benzidine
Concen: 9.979 ng
RT: 19.459 min Scan# 2
Delta R.T. 0.008 min
Lab File: BG058512.D
Acq: 28 Jul 2023 10:43

Tgt Ion:184 Resp: 5081

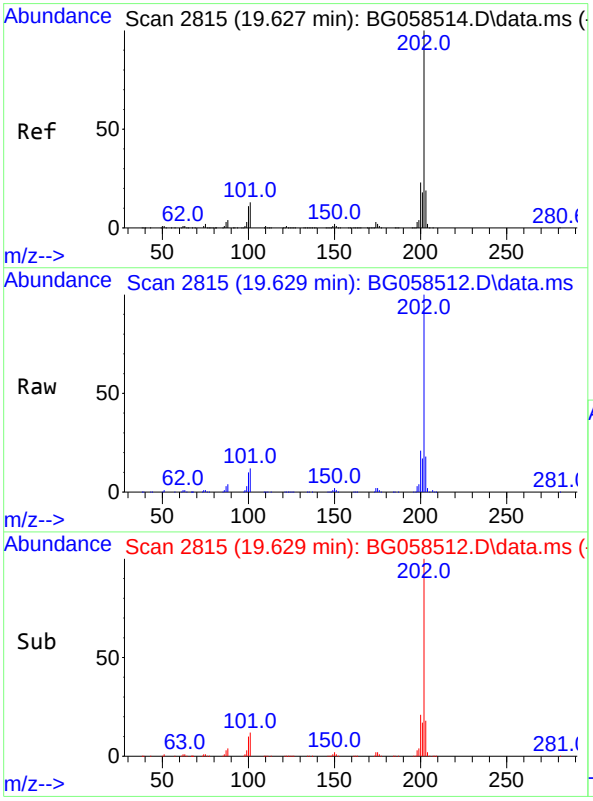
Ion	Ratio	Lower	Upper
184	100		
185	17.4	11.9	17.9
183	13.3	8.7	13.1



Instrument :
BNA_G
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

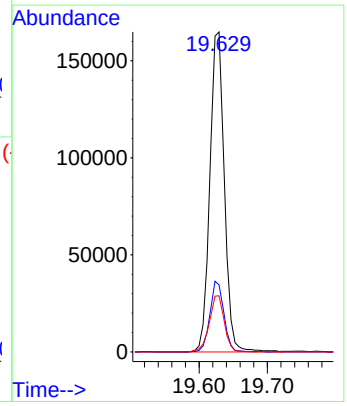
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

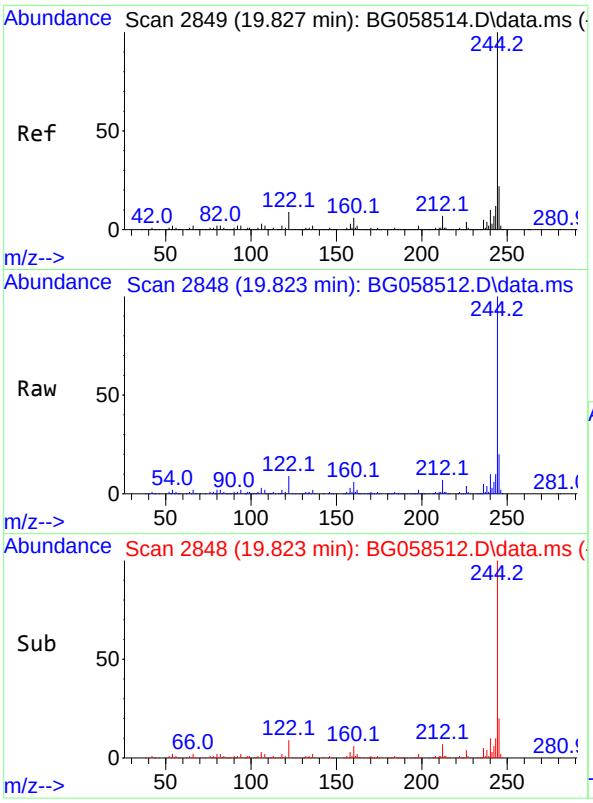


#78
Pyrene
Concen: 10.678 ng
RT: 19.629 min Scan# 2815
Delta R.T. 0.002 min
Lab File: BG058512.D
Acq: 28 Jul 2023 10:43

Tgt Ion:202 Resp: 244024

Ion	Ratio	Lower	Upper
202	100		
200	21.0	18.2	27.2
203	17.5	15.1	22.7

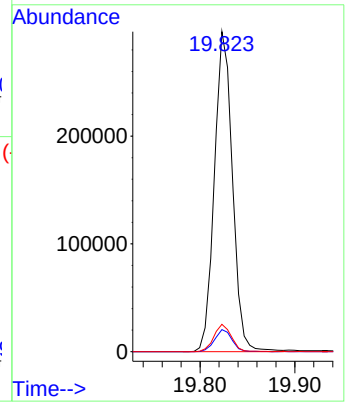




#79
Terphenyl-d14
Concen: 21.987 ng
RT: 19.823 min Scan# 2
Delta R.T. -0.004 min
Lab File: BG058512.D
Acq: 28 Jul 2023 10:43

Tgt Ion:244 Resp: 39261

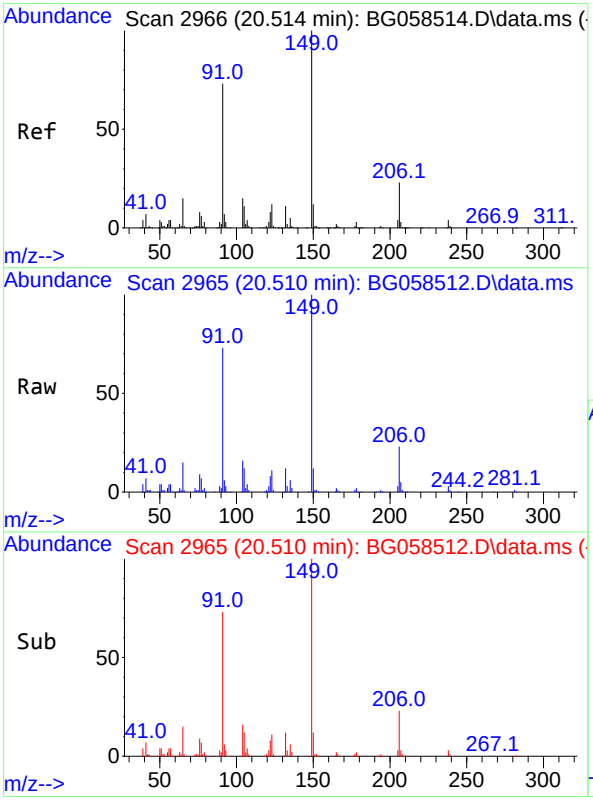
Ion	Ratio	Lower	Upper
244	100		
212	6.9	5.9	8.9
122	8.5	6.8	10.2



Instrument :
BNA_G
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

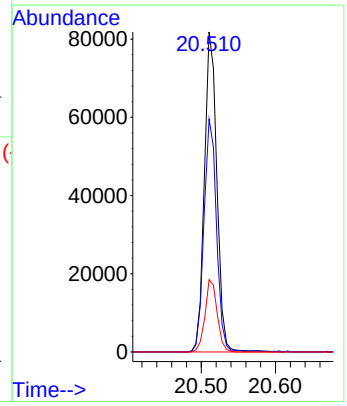
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

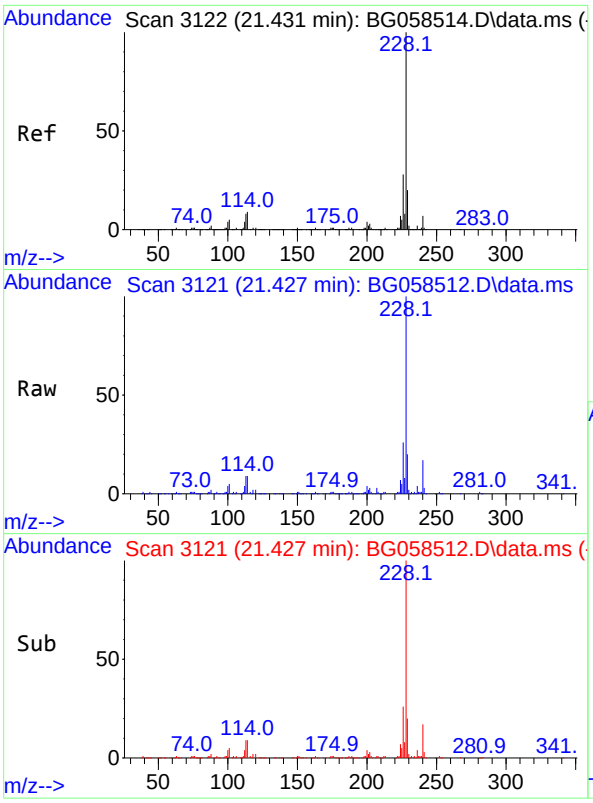


#80
Butylbenzylphthalate
Concen: 10.158 ng
RT: 20.510 min Scan# 2965
Delta R.T. -0.004 min
Lab File: BG058512.D
Acq: 28 Jul 2023 10:43

Tgt Ion:149 Resp: 95359

Ion	Ratio	Lower	Upper
149	100		
91	72.8	58.4	87.6
206	22.6	18.3	27.5

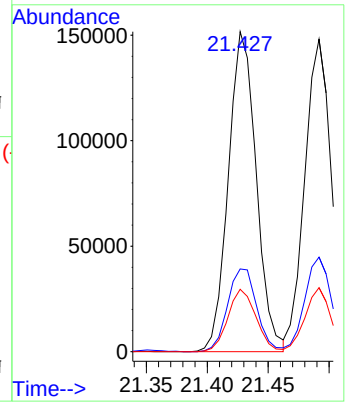




#81
Benzo(a)anthracene
Concen: 10.484 ng
RT: 21.427 min Scan# 3
Delta R.T. -0.004 min
Lab File: BG058512.D
Acq: 28 Jul 2023 10:43

Tgt Ion:228 Resp: 24227

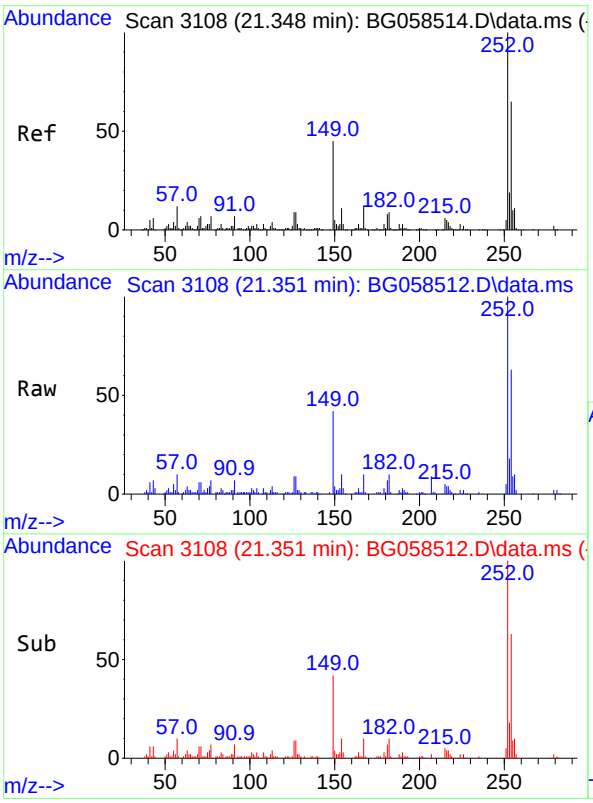
Ion	Ratio	Lower	Upper
228	100		
226	25.9	22.6	33.8
229	19.5	16.3	24.5



Instrument :
BNA_G
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

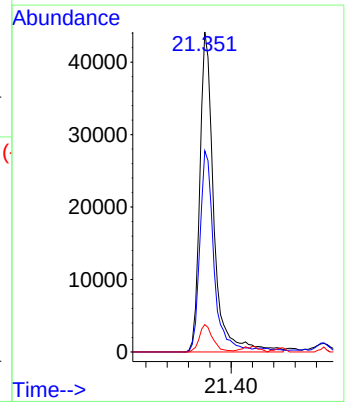
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

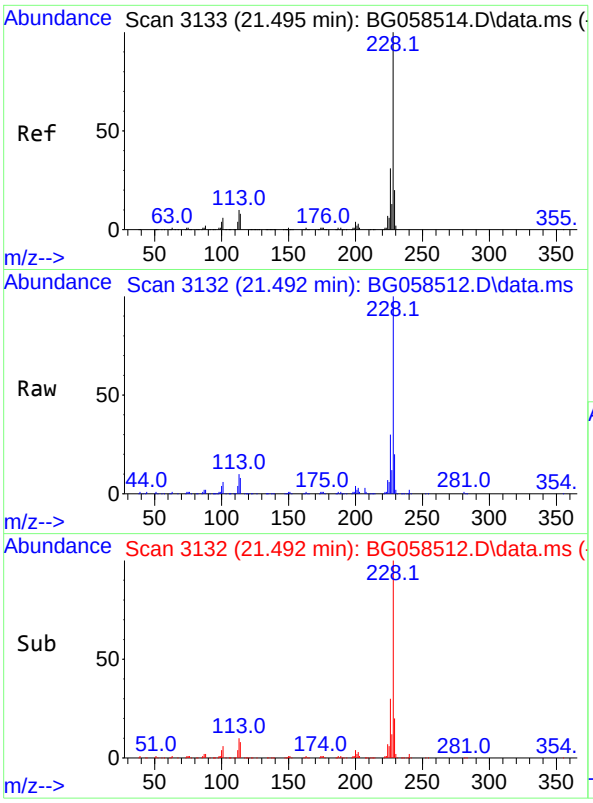


#82
3,3'-Dichlorobenzidine
Concen: 10.278 ng
RT: 21.351 min Scan# 3108
Delta R.T. 0.002 min
Lab File: BG058512.D
Acq: 28 Jul 2023 10:43

Tgt Ion:252 Resp: 80310

Ion	Ratio	Lower	Upper
252	100		
254	62.9	52.2	78.4
126	8.6	7.2	10.8

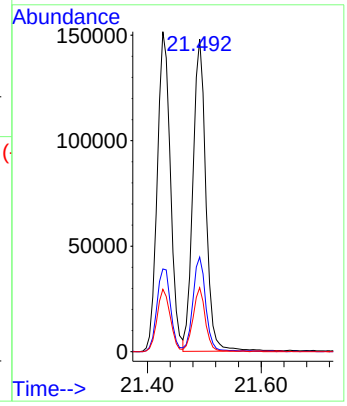




#83
Chrysene
Concen: 10.585 ng
RT: 21.492 min Scan# 3
Delta R.T. -0.004 min
Lab File: BG058512.D
Acq: 28 Jul 2023 10:43

Tgt Ion:228 Resp: 23453

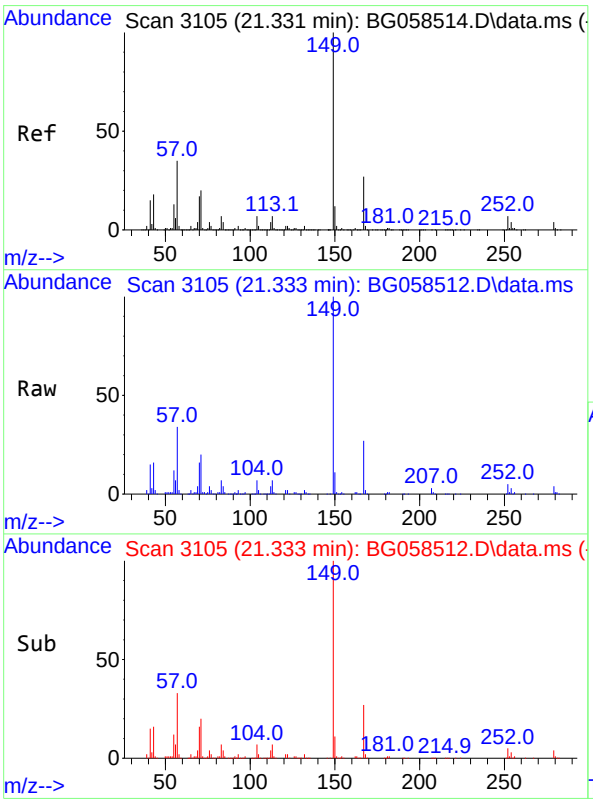
Ion	Ratio	Lower	Upper
228	100		
226	30.3	25.0	37.6
229	20.5	16.3	24.5



Instrument :
BNA_G
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

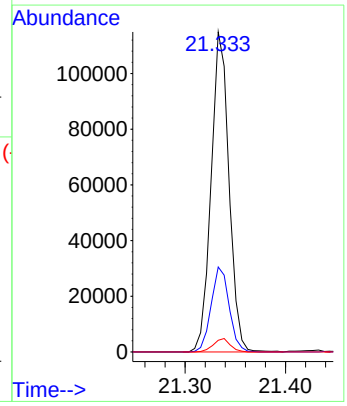
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

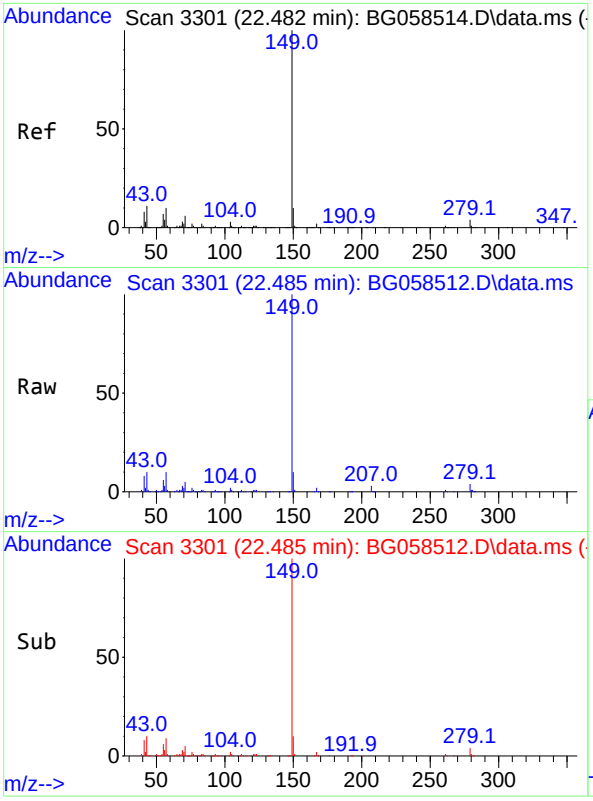


#84
Bis(2-ethylhexyl)phthalate
Concen: 10.388 ng
RT: 21.333 min Scan# 3105
Delta R.T. 0.002 min
Lab File: BG058512.D
Acq: 28 Jul 2023 10:43

Tgt Ion:149 Resp: 142495

Ion	Ratio	Lower	Upper
149	100		
167	26.5	21.8	32.8
279	3.7	2.9	4.3





#85
Di-n-octyl phthalate
Concen: 10.205 ng
RT: 22.485 min Scan# 3
Delta R.T. 0.002 min
Lab File: BG058512.D
Acq: 28 Jul 2023 10:43

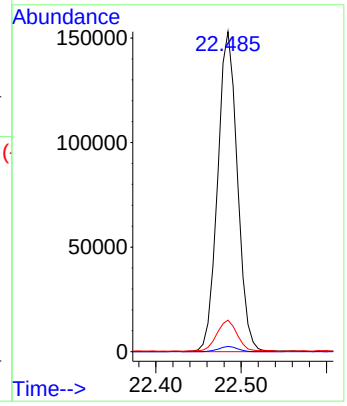
Tgt Ion:149 Resp: 24612

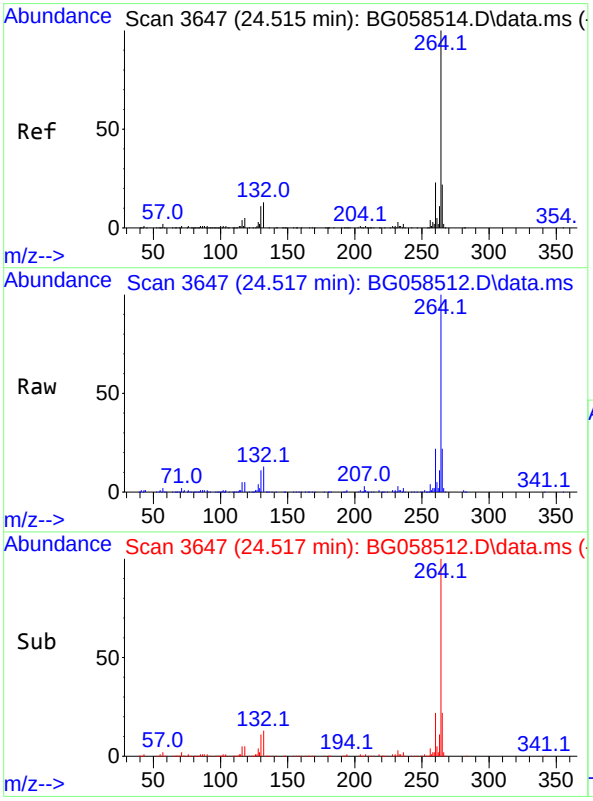
Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	10.2	8.2	12.2

Instrument :
BNA_G
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

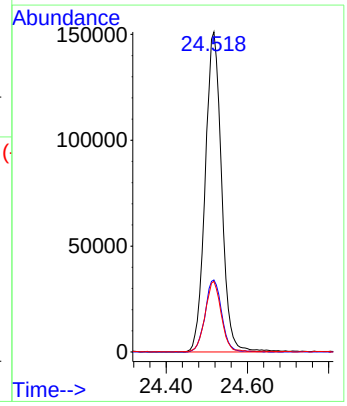


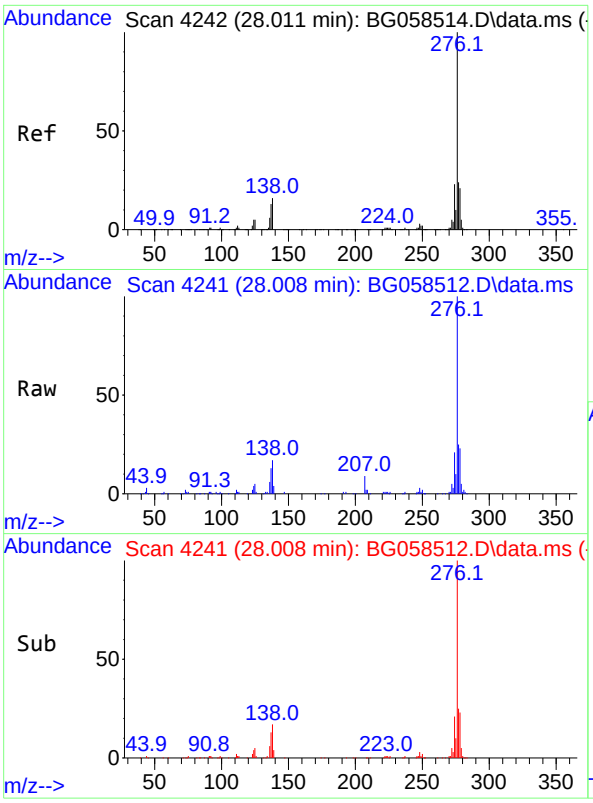


#86
Perylene-d12
Concen: 20.000 ng
RT: 24.517 min Scan# 3647
Delta R.T. 0.002 min
Lab File: BG058512.D
Acq: 28 Jul 2023 10:43

Tgt Ion:264 Resp: 423954

Ion	Ratio	Lower	Upper
264	100		
260	22.5	18.4	27.6
265	22.1	17.9	26.9

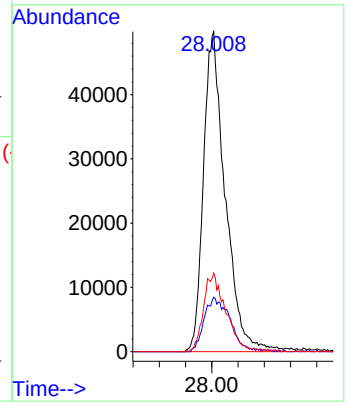




#87
Indeno(1,2,3-cd)pyrene
Concen: 10.135 ng
RT: 28.008 min Scan# 4
Delta R.T. -0.004 min
Lab File: BG058512.D
Acq: 28 Jul 2023 10:43

Tgt Ion:276 Resp: 28585

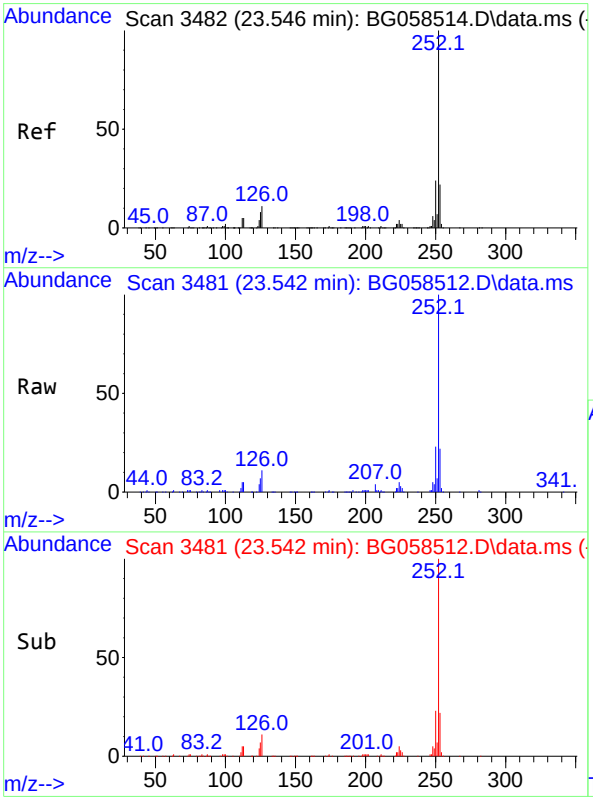
Ion	Ratio	Lower	Upper
276	100		
138	20.1	16.0	24.0
277	24.9	20.4	30.6



Instrument :
BNA_G
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

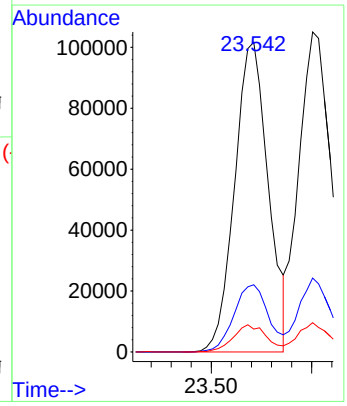
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

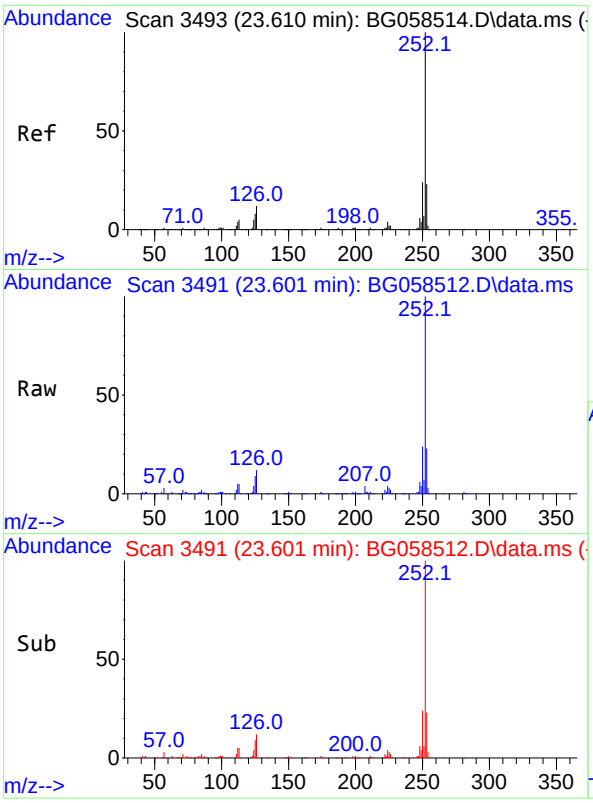


#88
Benzo(b)fluoranthene
Concen: 10.294 ng
RT: 23.542 min Scan# 3481
Delta R.T. -0.004 min
Lab File: BG058512.D
Acq: 28 Jul 2023 10:43

Tgt Ion:252 Resp: 236706

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.8	26.8
125	7.4	6.6	9.8

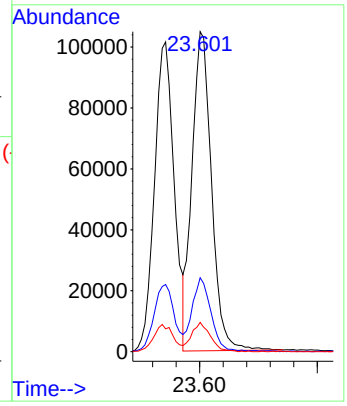




#89
Benzo(k)fluoranthene
Concen: 10.451 ng
RT: 23.601 min Scan# 34
Delta R.T. -0.009 min
Lab File: BG058512.D
Acq: 28 Jul 2023 10:43

Tgt Ion:252 Resp: 24141

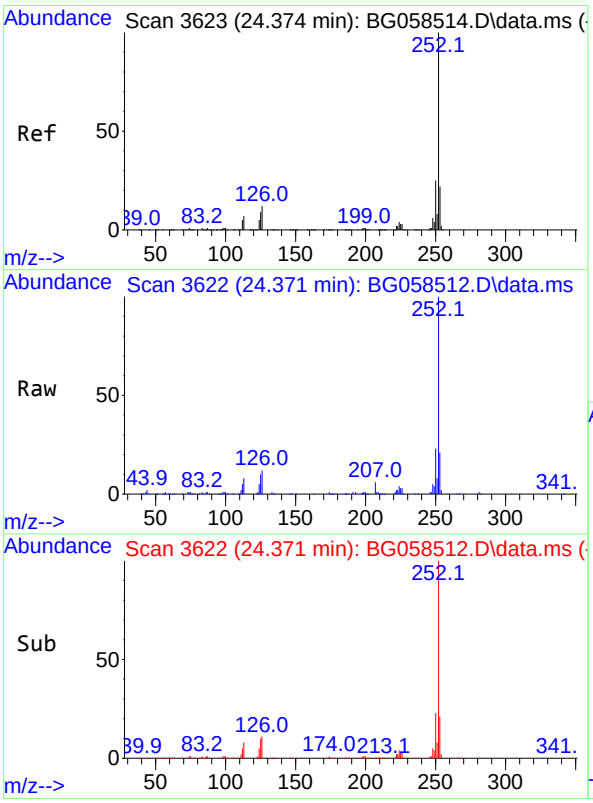
Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.9	26.9
125	9.1	6.6	10.0



Instrument :
BNA_G
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

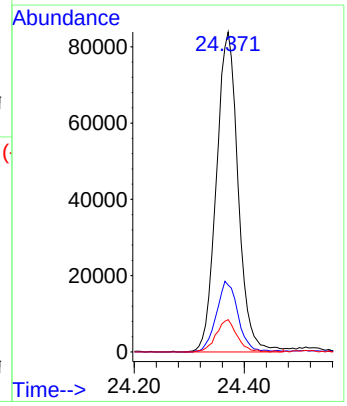
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

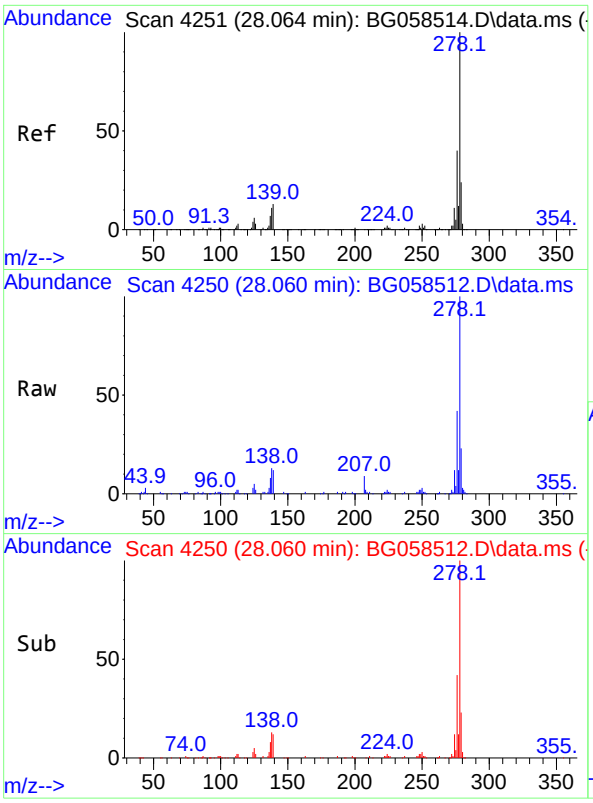


#90
Benzo(a)pyrene
Concen: 10.195 ng
RT: 24.371 min Scan# 3622
Delta R.T. -0.004 min
Lab File: BG058512.D
Acq: 28 Jul 2023 10:43

Tgt Ion:252 Resp: 230222

Ion	Ratio	Lower	Upper
252	100		
253	20.9	17.5	26.3
125	10.1	7.4	11.2

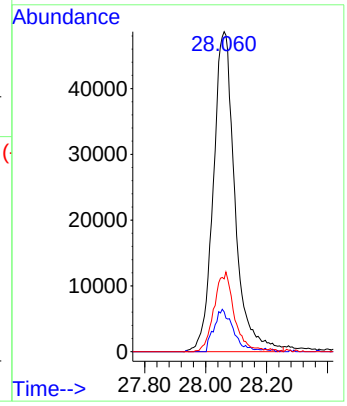




#91
Dibenzo(a,h)anthracene
Concen: 10.248 ng
RT: 28.060 min Scan# 4
Delta R.T. -0.004 min
Lab File: BG058512.D
Acq: 28 Jul 2023 10:43

Tgt Ion:278 Resp: 23899

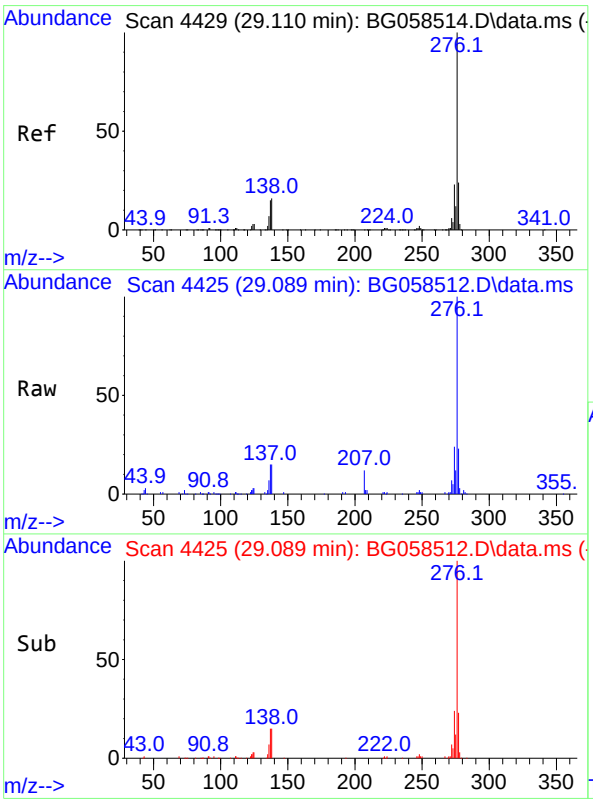
Ion	Ratio	Lower	Upper
278	100		
139	12.4	10.4	15.6
279	22.8	19.0	28.6



Instrument :
BNA_G
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

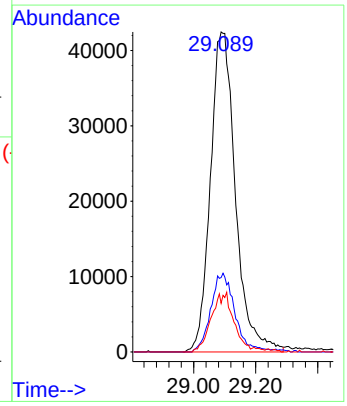
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023



#92
Benzo(g,h,i)perylene
Concen: 10.169 ng
RT: 29.089 min Scan# 4425
Delta R.T. -0.021 min
Lab File: BG058512.D
Acq: 28 Jul 2023 10:43

Tgt Ion:276 Resp: 237798

Ion	Ratio	Lower	Upper
276	100		
277	23.2	18.9	28.3
138	15.2	13.0	19.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG072823\
Data File : BG058513.D
Acq On : 28 Jul 2023 11:24
Operator : MA/JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 28 16:58:22 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 28 16:53:40 2023
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.815	152	57523	20.000	ng	0.00
21) Naphthalene-d8	10.618	136	233754	20.000	ng	0.00
39) Acenaphthene-d10	14.461	164	159892	20.000	ng	0.00
64) Phenanthrene-d10	17.204	188	380302	20.000	ng	0.00
76) Chrysene-d12	21.447	240	334200	20.000	ng	0.00
86) Perylene-d12	24.514	264	421607	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.383	112	163299	43.391	ng	0.00
7) Phenol-d6	6.981	99	225672	43.093	ng	0.00
23) Nitrobenzene-d5	8.979	82	203078	42.678	ng	0.00
42) 2,4,6-Tribromophenol	15.953	330	110551	42.183	ng	0.00
45) 2-Fluorobiphenyl	13.080	172	463384	43.431	ng	0.00
79) Terphenyl-d14	19.825	244	770837	43.375	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.280	88	38986	21.378	ng	96
3) Pyridine	3.673	79	107049	21.531	ng	100
4) n-Nitrosodimethylamine	3.591	42	45327	21.516	ng	93
6) Aniline	7.140	93	137288	21.293	ng	100
8) 2-Chlorophenol	7.381	128	80120	21.701	ng	98
9) Benzaldehyde	6.952	77	64322m	22.608	ng	
10) Phenol	7.011	94	109987	21.501	ng	99
11) bis(2-Chloroethyl)ether	7.240	93	84249	20.890	ng	97
12) 1,3-Dichlorobenzene	7.704	146	86256	21.879	ng	97
13) 1,4-Dichlorobenzene	7.851	146	85059	21.487	ng	98
14) 1,2-Dichlorobenzene	8.168	146	82313	21.749	ng	97
15) Benzyl Alcohol	8.056	79	70413	21.202	ng	99
16) 2,2'-oxybis(1-Chloropr...	8.344	45	139268	21.259	ng	98
17) 2-Methylphenol	8.262	107	78987	21.117	ng	99
18) Hexachloroethane	8.891	117	30375	21.111	ng	95
19) n-Nitroso-di-n-propyla...	8.620	70	71950	21.271	ng	97
20) 3+4-Methylphenols	8.585	107	109191	21.582	ng	94
22) Acetophenone	8.638	105	134848	21.545	ng	100
24) Nitrobenzene	9.020	77	102916	21.275	ng	98
25) Isophorone	9.537	82	206353	20.989	ng	100
26) 2-Nitrophenol	9.731	139	43256	20.542	ng	98
27) 2,4-Dimethylphenol	9.790	122	74092	21.213	ng	97
28) bis(2-Chloroethoxy)met...	10.025	93	113426	21.200	ng	98
29) 2,4-Dichlorophenol	10.265	162	76181	21.006	ng	97
30) 1,2,4-Trichlorobenzene	10.477	180	88007	21.042	ng	96
31) Naphthalene	10.665	128	262382	21.297	ng	100
32) Benzoic acid	9.913	122	42089	18.328	ng	96
33) 4-Chloroaniline	10.783	127	108543	20.852	ng	98
34) Hexachlorobutadiene	10.947	225	57444	21.327	ng	97
35) Caprolactam	11.540	113	28051	20.946	ng	96
36) 4-Chloro-3-methylphenol	11.911	107	94975	21.170	ng	98
37) 2-Methylnaphthalene	12.281	142	186094	21.116	ng	98
38) 1-Methylnaphthalene	12.498	142	176996	21.128	ng	98
40) 1,2,4,5-Tetrachloroben...	12.651	216	102613	20.904	ng	100
41) Hexachlorocyclopentadiene	12.622	237	32445	19.831	ng	99
43) 2,4,6-Trichlorophenol	12.892	196	70746	20.953	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG072823\
Data File : BG058513.D
Acq On : 28 Jul 2023 11:24
Operator : MA/JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 28 16:58:22 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 28 16:53:40 2023
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.968	196	78799	19.814	ng	98
46) 1,1'-Biphenyl	13.291	154	232707	21.193	ng	100
47) 2-Chloronaphthalene	13.338	162	181901	21.246	ng	99
48) 2-Nitroaniline	13.544	65	69151	21.161	ng	99
49) Acenaphthylene	14.184	152	306868	21.408	ng	98
50) Dimethylphthalate	13.920	163	254949	21.231	ng	98
51) 2,6-Dinitrotoluene	14.043	165	55170	20.939	ng	99
52) Acenaphthene	14.525	154	177177	21.392	ng	99
53) 3-Nitroaniline	14.372	138	56104	21.283	ng	99
54) 2,4-Dinitrophenol	14.584	184	19250	19.232	ng	98
55) Dibenzofuran	14.860	168	303584	21.331	ng	99
56) 4-Nitrophenol	14.690	139	32457	19.546	ng	95
57) 2,4-Dinitrotoluene	14.831	165	78646	21.530	ng	99
58) Fluorene	15.512	166	244477	21.624	ng	98
59) 2,3,4,6-Tetrachlorophenol	15.089	232	69013	20.337	ng	98
60) Diethylphthalate	15.277	149	261282	21.358	ng	100
61) 4-Chlorophenyl-phenyle...	15.501	204	133201	21.132	ng	98
62) 4-Nitroaniline	15.536	138	52660	21.256	ng	96
63) Azobenzene	15.794	77	256568	21.293	ng	99
65) 4,6-Dinitro-2-methylph...	15.595	198	39305	18.744	ng	94
66) n-Nitrosodiphenylamine	15.718	169	214429	21.663	ng	98
67) 4-Bromophenyl-phenylether	16.394	248	89716	20.799	ng	99
68) Hexachlorobenzene	16.511	284	96202	21.047	ng	96
69) Atrazine	16.664	200	74055	22.163	ng	98
70) Pentachlorophenol	16.864	266	52825	19.179	ng	96
71) Phenanthrene	17.251	178	389214	21.580	ng	98
72) Anthracene	17.340	178	399603	21.593	ng	99
73) Carbazole	17.610	167	352766	21.617	ng	98
74) Di-n-butylphthalate	18.168	149	444016	21.722	ng	99
75) Fluoranthene	19.261	202	467716	21.589	ng	98
77) Benzidine	19.455	184	81034	15.990	ng	98
78) Pyrene	19.625	202	483558	21.261	ng	98
80) Butylbenzylphthalate	20.512	149	195383	20.914	ng	98
81) Benzo(a)anthracene	21.429	228	479828	20.863	ng	99
82) 3,3'-Dichlorobenzidine	21.352	252	163707	21.052	ng	99
83) Chrysene	21.494	228	465589	21.114	ng	99
84) Bis(2-ethylhexyl)phtha...	21.335	149	289405	21.198	ng	100
85) Di-n-octyl phthalate	22.486	149	501675	20.901	ng	100
87) Indeno(1,2,3-cd)pyrene	27.998	276	584529	20.840	ng	99
88) Benzo(b)fluoranthene	23.538	252	484518	21.189	ng	99
89) Benzo(k)fluoranthene	23.603	252	483956	21.067	ng	99
90) Benzo(a)pyrene	24.367	252	469351	20.900	ng	100
91) Dibenzo(a,h)anthracene	28.056	278	483917	20.866	ng	100
92) Benzo(g,h,i)perylene	29.090	276	485395	20.872	ng	99

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

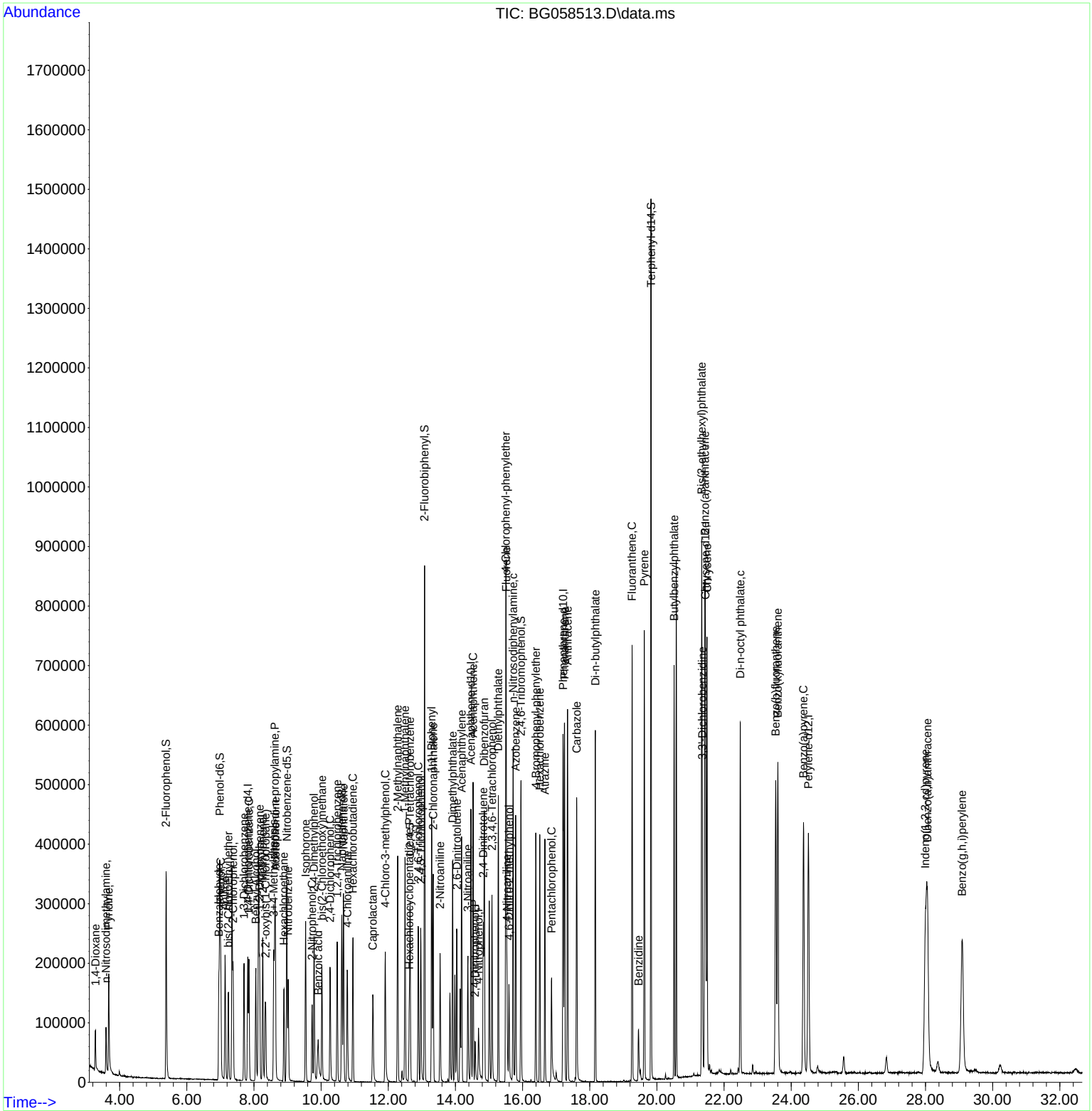
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG072823\
Data File : BG058513.D
Acq On : 28 Jul 2023 11:24
Operator : MA/JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

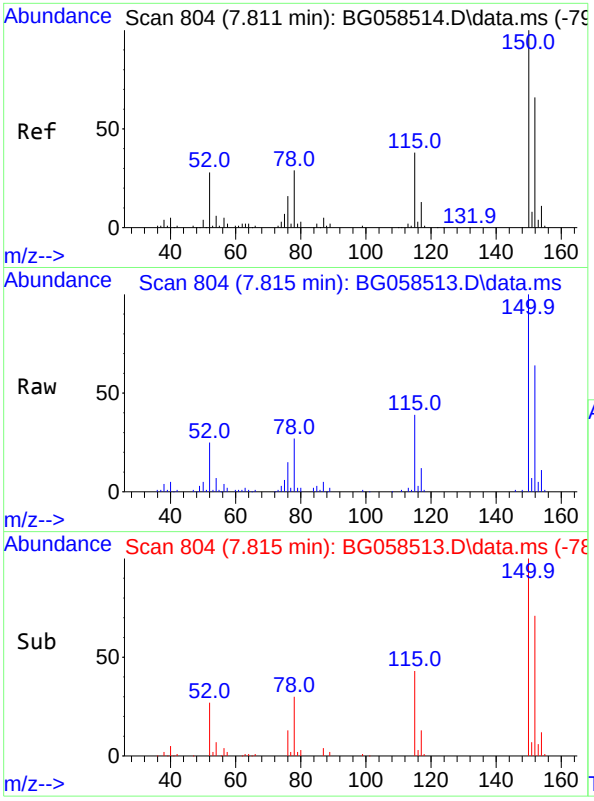
Quant Time: Jul 28 16:58:22 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 28 16:53:40 2023
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

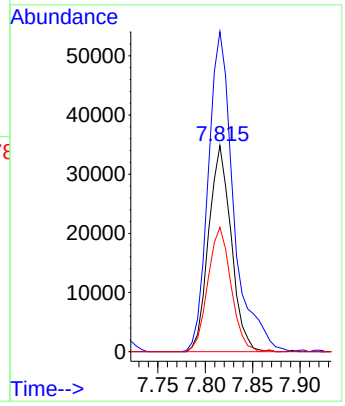




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.815 min Scan# 8
Delta R.T. 0.004 min
Lab File: BG058513.D
Acq: 28 Jul 2023 11:24

Tgt Ion:152 Resp: 5752

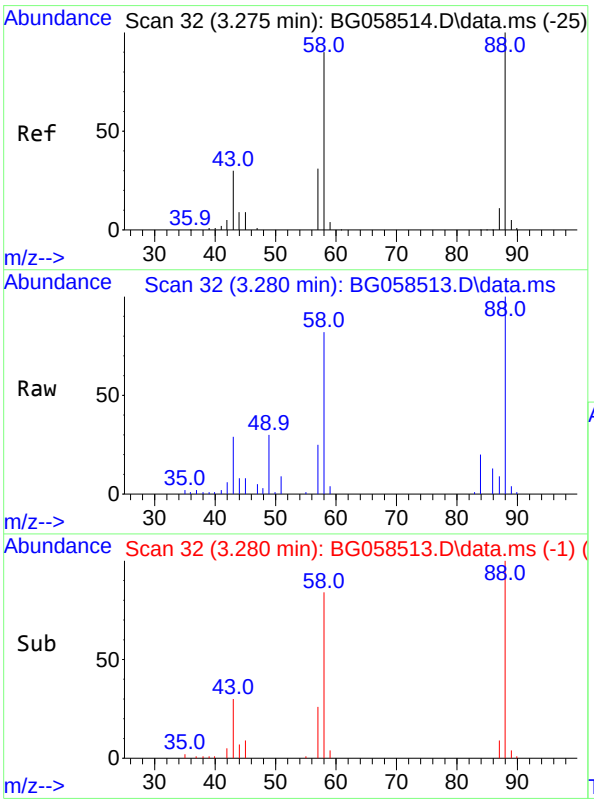
Ion	Ratio	Lower	Upper
152	100		
150	155.2	120.5	180.7
115	60.3	45.9	68.9



Instrument :
BNA_G
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

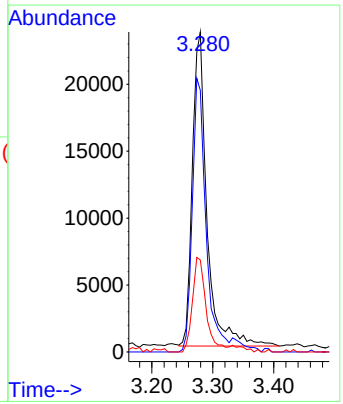
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

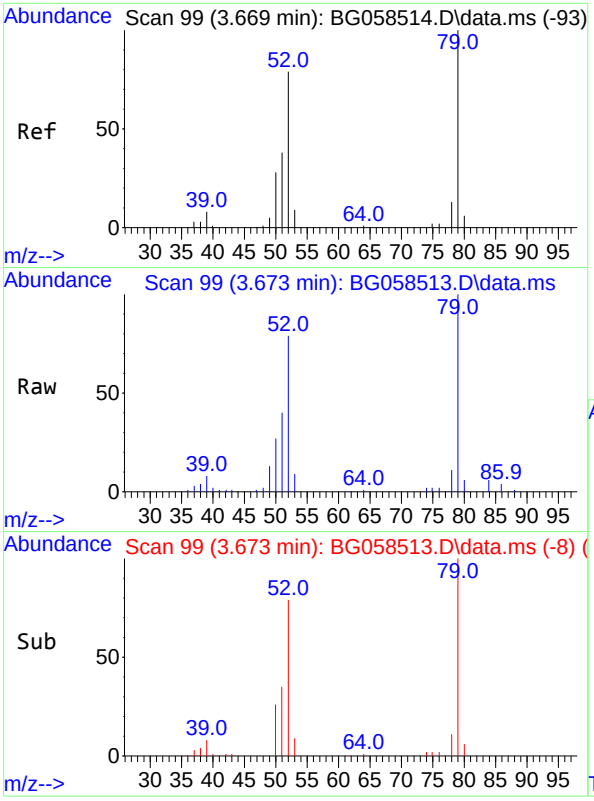


#2
1,4-Dioxane
Concen: 21.378 ng
RT: 3.280 min Scan# 32
Delta R.T. 0.004 min
Lab File: BG058513.D
Acq: 28 Jul 2023 11:24

Tgt Ion: 88 Resp: 38986

Ion	Ratio	Lower	Upper
88	100		
58	80.9	68.9	103.3
43	28.5	22.9	34.3

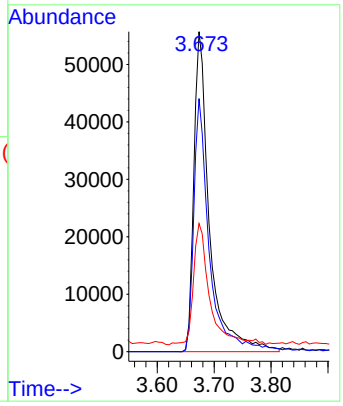




#3
Pyridine
Concen: 21.531 ng
RT: 3.673 min Scan# 9
Delta R.T. 0.004 min
Lab File: BG058513.D
Acq: 28 Jul 2023 11:24

Tgt Ion: 79 Resp: 10704

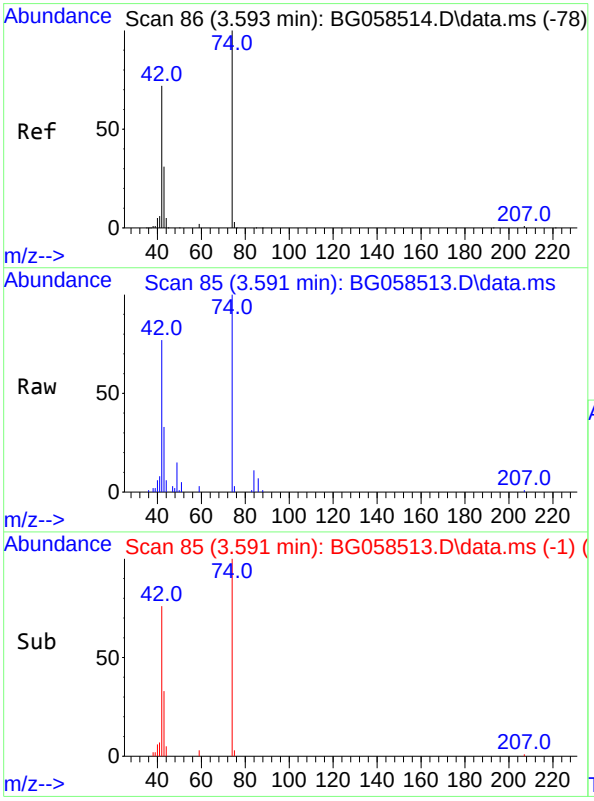
Ion	Ratio	Lower	Upper
79	100		
52	79.1	63.2	94.8
51	40.0	31.9	47.9



Instrument :
BNA_G
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

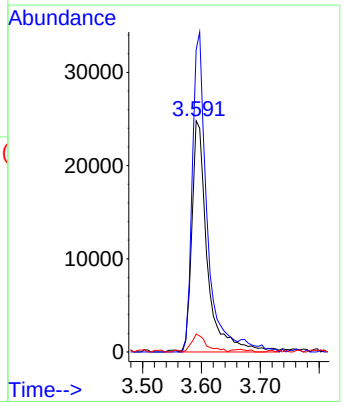
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

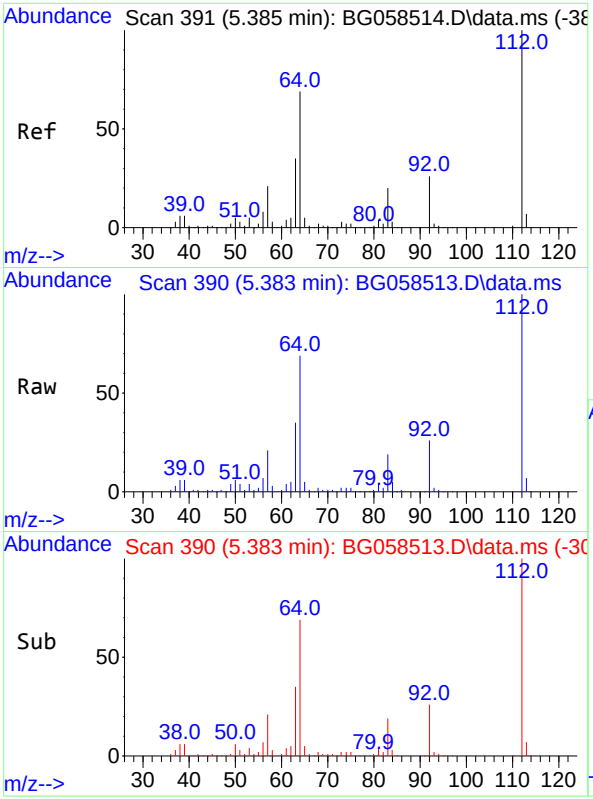


#4
n-Nitrosodimethylamine
Concen: 21.516 ng
RT: 3.591 min Scan# 85
Delta R.T. -0.002 min
Lab File: BG058513.D
Acq: 28 Jul 2023 11:24

Tgt Ion: 42 Resp: 45327

Ion	Ratio	Lower	Upper
42	100		
74	130.6	111.5	167.3
44	7.8	5.4	8.2

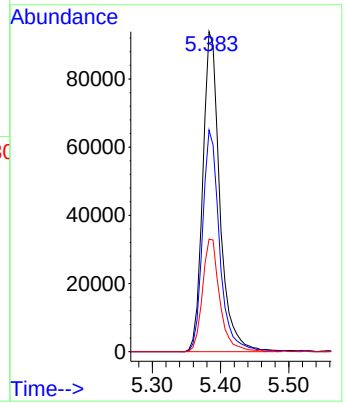




#5
2-Fluorophenol
Concen: 43.391 ng
RT: 5.383 min Scan# 3
Delta R.T. -0.002 min
Lab File: BG058513.D
Acq: 28 Jul 2023 11:24

Tgt Ion:112 Resp: 16329

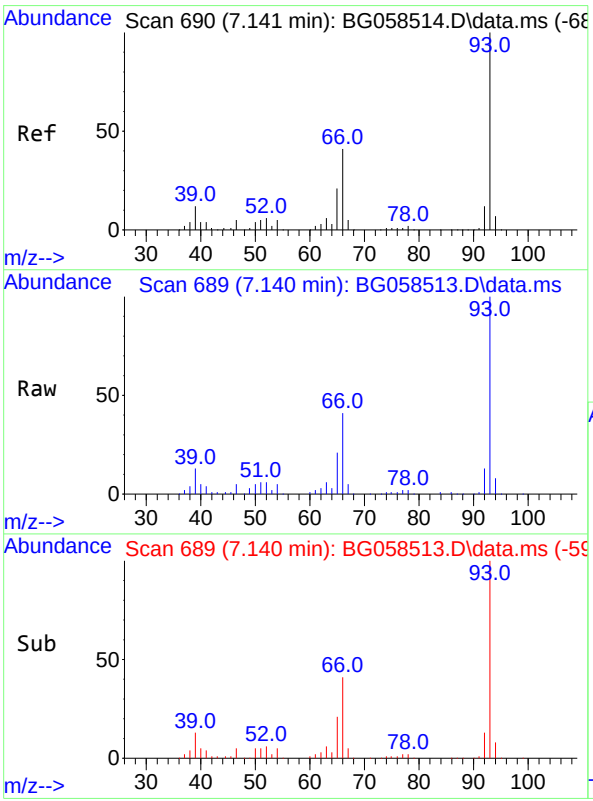
Ion	Ratio	Lower	Upper
112	100		
64	69.2	55.3	82.9
63	35.2	28.3	42.5



Instrument :
BNA_G
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

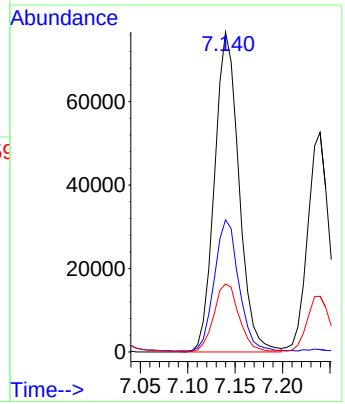
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

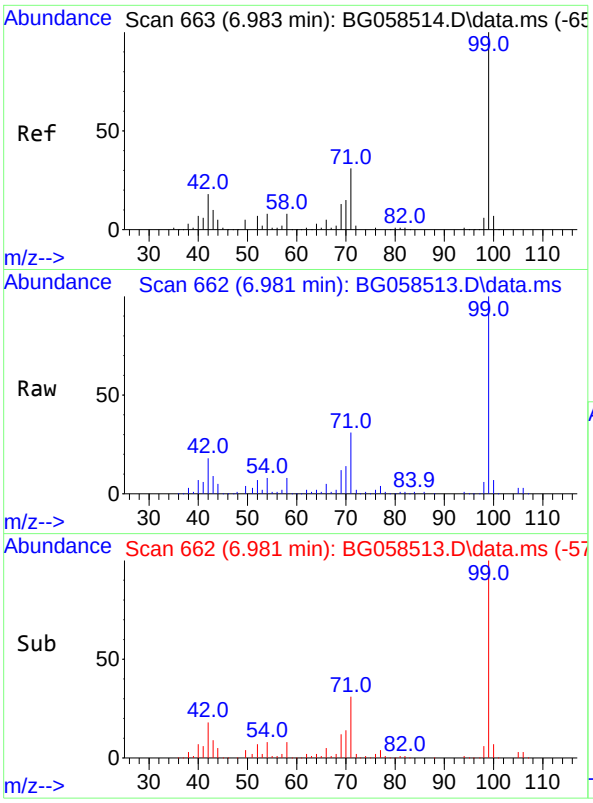


#6
Aniline
Concen: 21.293 ng
RT: 7.140 min Scan# 689
Delta R.T. -0.002 min
Lab File: BG058513.D
Acq: 28 Jul 2023 11:24

Tgt Ion: 93 Resp: 137288

Ion	Ratio	Lower	Upper
93	100		
66	41.3	33.1	49.7
65	21.2	17.0	25.4

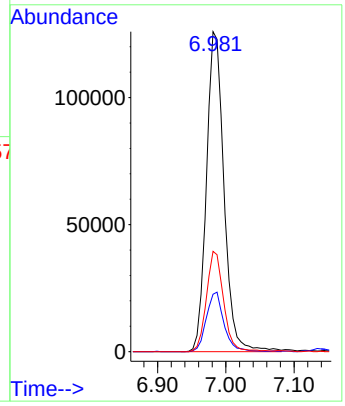




#7
Phenol-d6
Concen: 43.093 ng
RT: 6.981 min Scan# 6
Delta R.T. -0.002 min
Lab File: BG058513.D
Acq: 28 Jul 2023 11:24

Tgt Ion: 99 Resp: 22567

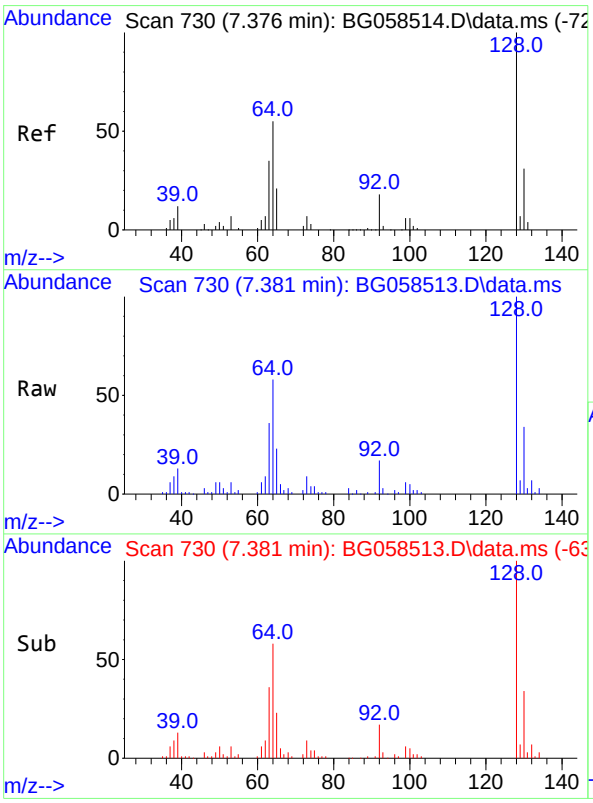
Ion	Ratio	Lower	Upper
99	100		
42	18.0	14.6	21.8
71	31.3	25.0	37.4



Instrument :
BNA_G
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

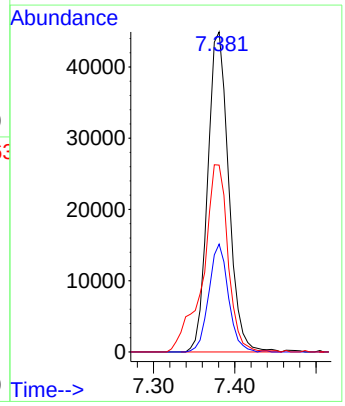
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

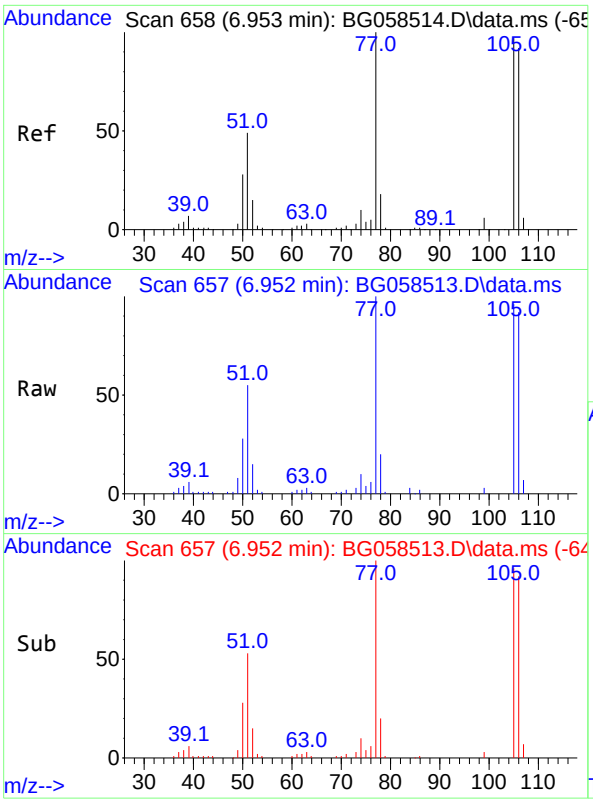


#8
2-Chlorophenol
Concen: 21.701 ng
RT: 7.381 min Scan# 730
Delta R.T. 0.004 min
Lab File: BG058513.D
Acq: 28 Jul 2023 11:24

Tgt Ion:128 Resp: 80120

Ion	Ratio	Lower	Upper
128	100		
130	33.7	10.9	50.9
64	58.4	39.0	79.0

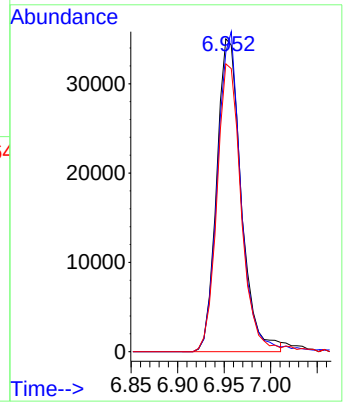




#9
Benzaldehyde
Concen: 22.608 ng m
RT: 6.952 min Scan# 6
Delta R.T. -0.001 min
Lab File: BG058513.D
Acq: 28 Jul 2023 11:24

Tgt Ion: 77 Resp: 6432

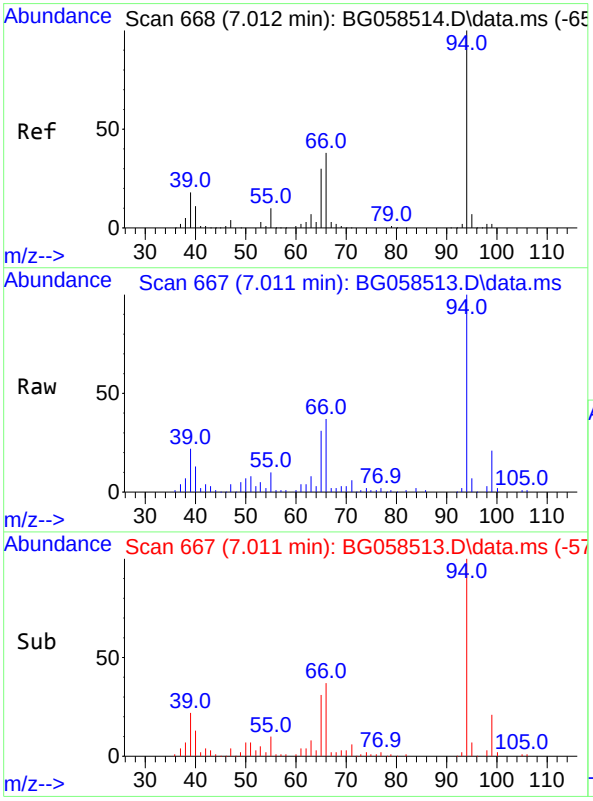
Ion	Ratio	Lower	Upper
77	100		
105	95.8	77.1	117.1
106	92.0	71.6	111.6



Instrument :
BNA_G
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

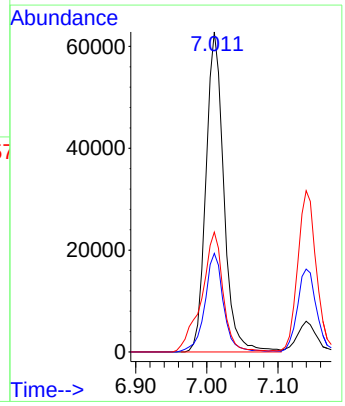
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

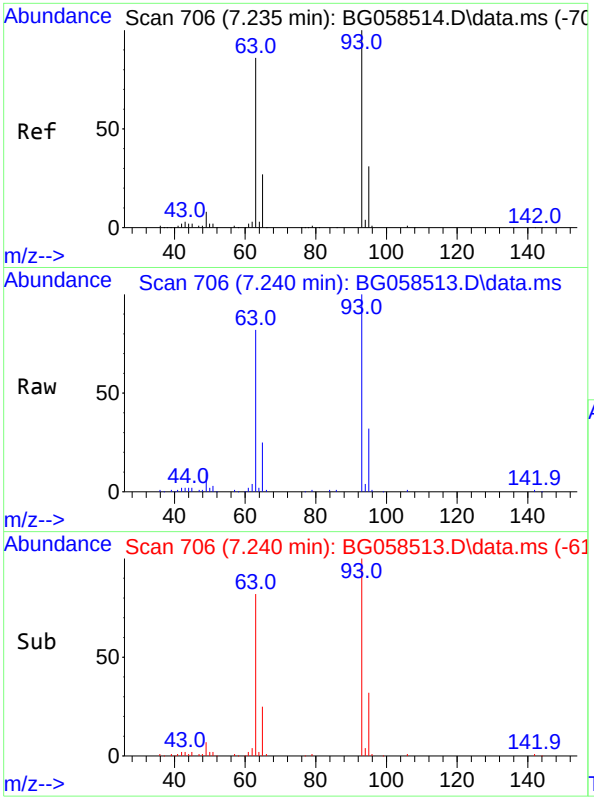


#10
Phenol
Concen: 21.501 ng
RT: 7.011 min Scan# 667
Delta R.T. -0.002 min
Lab File: BG058513.D
Acq: 28 Jul 2023 11:24

Tgt Ion: 94 Resp: 109987

Ion	Ratio	Lower	Upper
94	100		
65	30.8	10.4	50.4
66	37.5	18.7	58.7

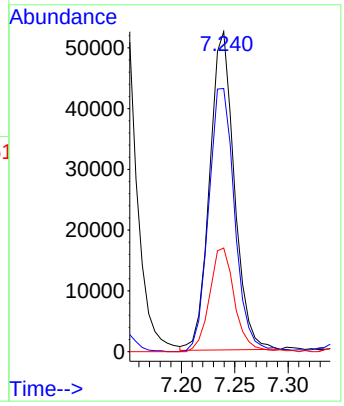




#11
bis(2-Chloroethyl)ether
Concen: 20.890 ng
RT: 7.240 min Scan# 7
Delta R.T. 0.004 min
Lab File: BG058513.D
Acq: 28 Jul 2023 11:24

Tgt Ion: 93 Resp: 8424

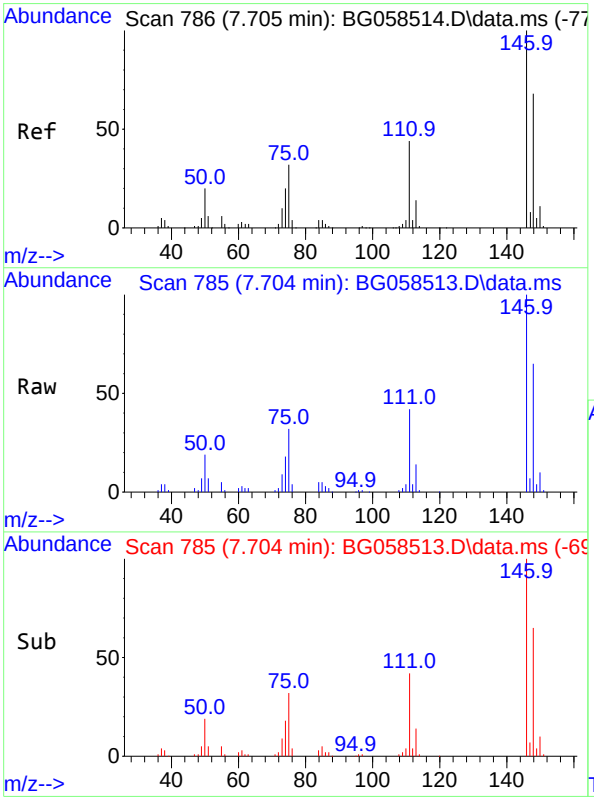
Ion	Ratio	Lower	Upper
93	100		
63	82.3	65.5	105.5
95	32.4	11.2	51.2



Instrument :
BNA_G
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

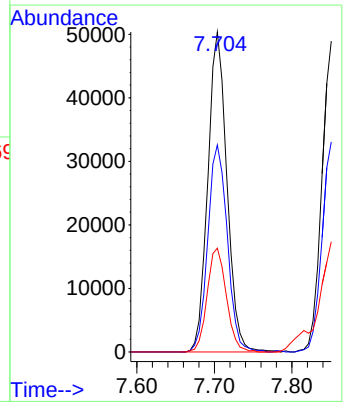
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

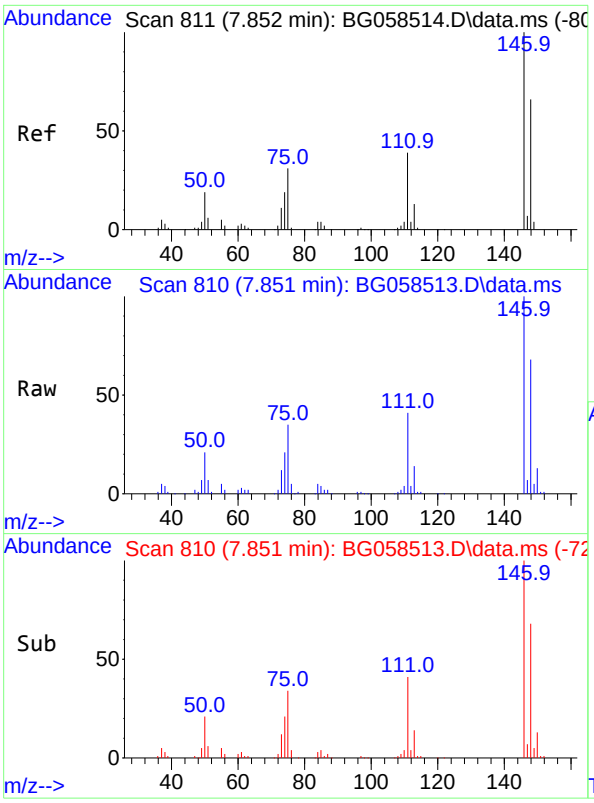


#12
1,3-Dichlorobenzene
Concen: 21.879 ng
RT: 7.704 min Scan# 785
Delta R.T. -0.002 min
Lab File: BG058513.D
Acq: 28 Jul 2023 11:24

Tgt Ion:146 Resp: 86256

Ion	Ratio	Lower	Upper
146	100		
148	64.7	54.7	82.1
75	32.4	25.8	38.8

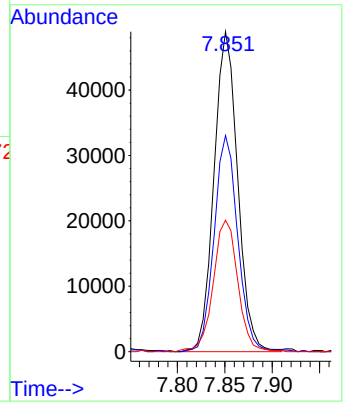




#13
1,4-Dichlorobenzene
Concen: 21.487 ng
RT: 7.851 min Scan# 81
Delta R.T. -0.002 min
Lab File: BG058513.D
Acq: 28 Jul 2023 11:24

Tgt Ion:146 Resp: 8505

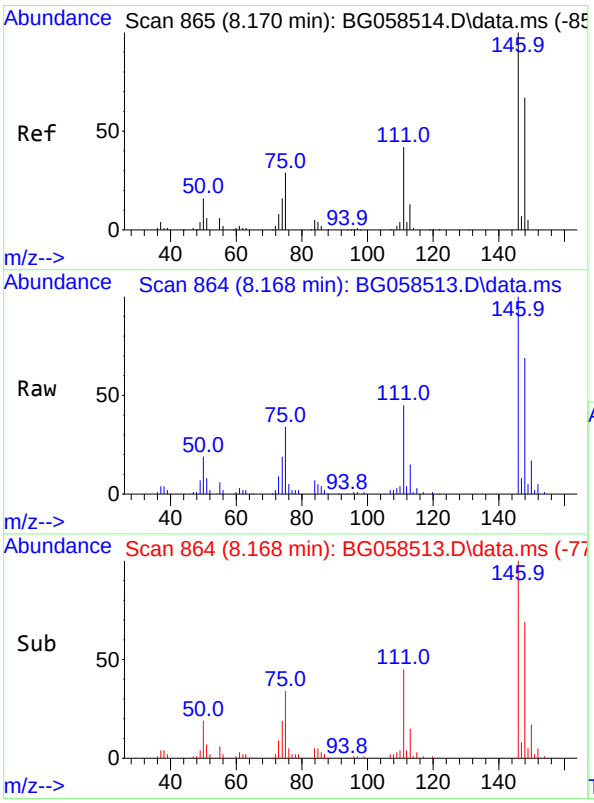
Ion	Ratio	Lower	Upper
146	100		
148	67.6	52.8	79.2
111	41.1	31.7	47.5



Instrument :
BNA_G
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

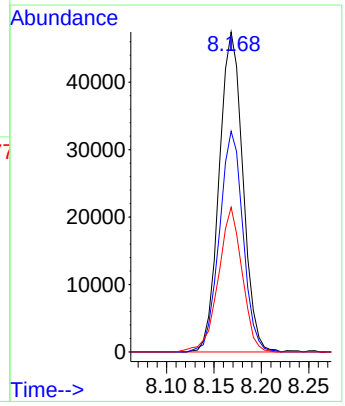
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

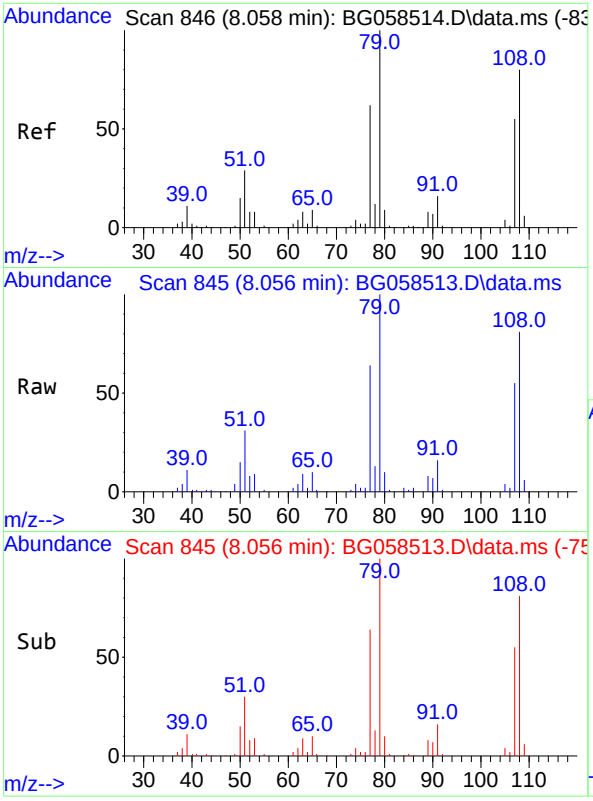


#14
1,2-Dichlorobenzene
Concen: 21.749 ng
RT: 8.168 min Scan# 864
Delta R.T. -0.002 min
Lab File: BG058513.D
Acq: 28 Jul 2023 11:24

Tgt Ion:146 Resp: 82313

Ion	Ratio	Lower	Upper
146	100		
148	69.0	53.4	80.2
111	45.2	34.2	51.2

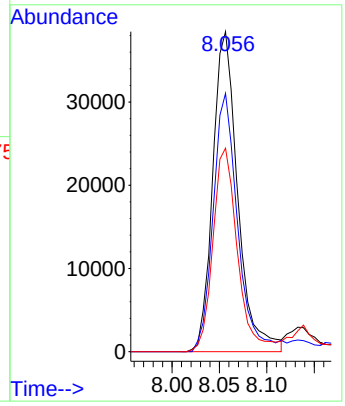




#15
Benzyl Alcohol
Concen: 21.202 ng
RT: 8.056 min Scan# 84
Delta R.T. -0.002 min
Lab File: BG058513.D
Acq: 28 Jul 2023 11:24

Tgt Ion: 79 Resp: 7041

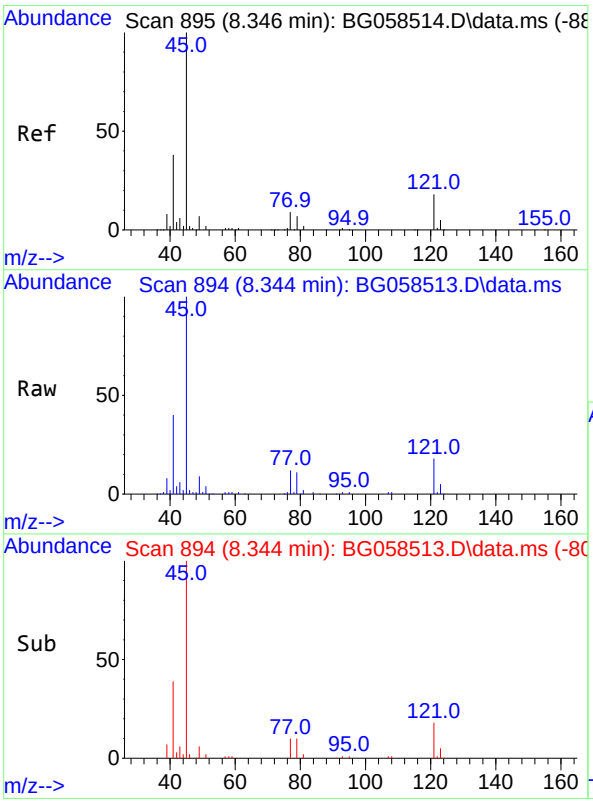
Ion	Ratio	Lower	Upper
79	100		
108	80.7	63.8	95.6
77	63.6	49.8	74.6



Instrument :
BNA_G
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

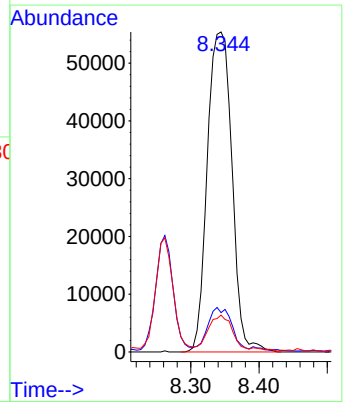
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

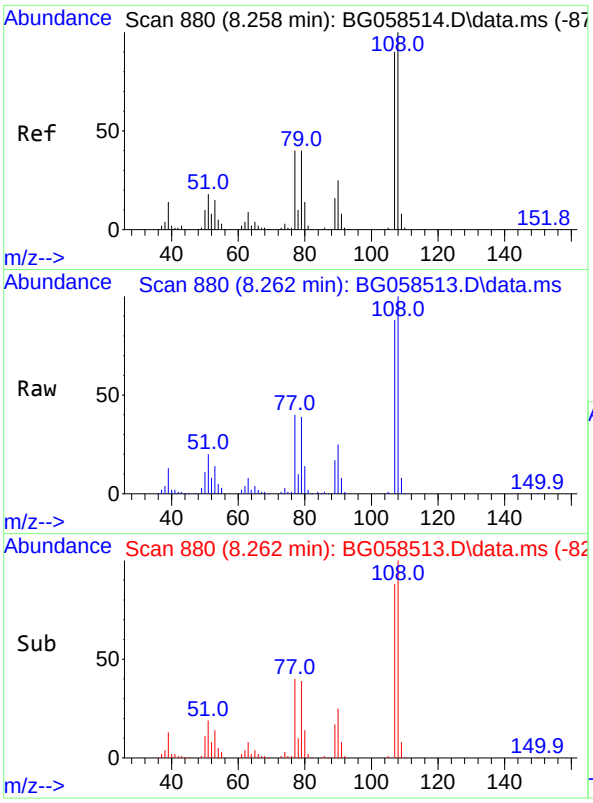


#16
2,2'-oxybis(1-Chloropropane)
Concen: 21.259 ng
RT: 8.344 min Scan# 894
Delta R.T. -0.002 min
Lab File: BG058513.D
Acq: 28 Jul 2023 11:24

Tgt Ion: 45 Resp: 139268

Ion	Ratio	Lower	Upper
45	100		
77	12.3	0.0	32.6
79	11.5	0.0	30.2

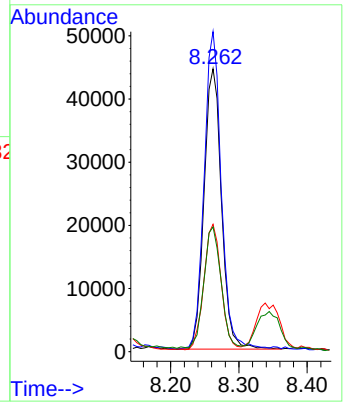




#17
2-Methylphenol
Concen: 21.117 ng
RT: 8.262 min Scan# 8
Delta R.T. 0.004 min
Lab File: BG058513.D
Acq: 28 Jul 2023 11:24

Tgt Ion:107 Resp: 7898

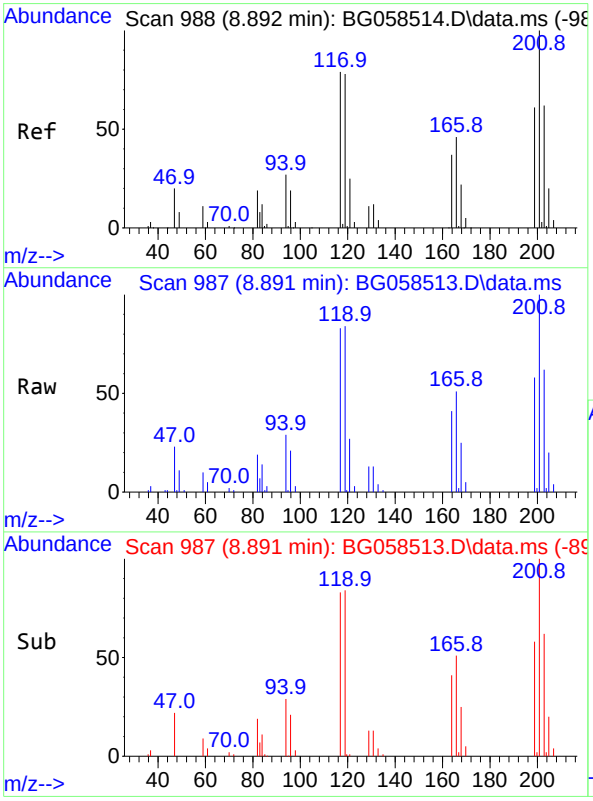
Ion	Ratio	Lower	Upper
107	100		
108	113.1	89.1	133.7
77	45.0	36.2	54.4
79	44.1	36.1	54.1



Instrument :
BNA_G
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

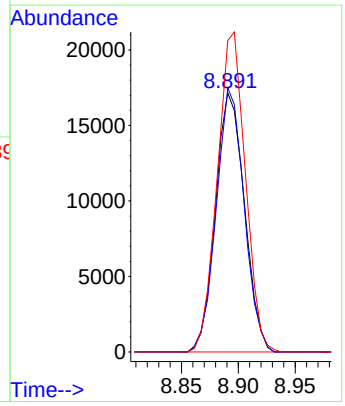
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

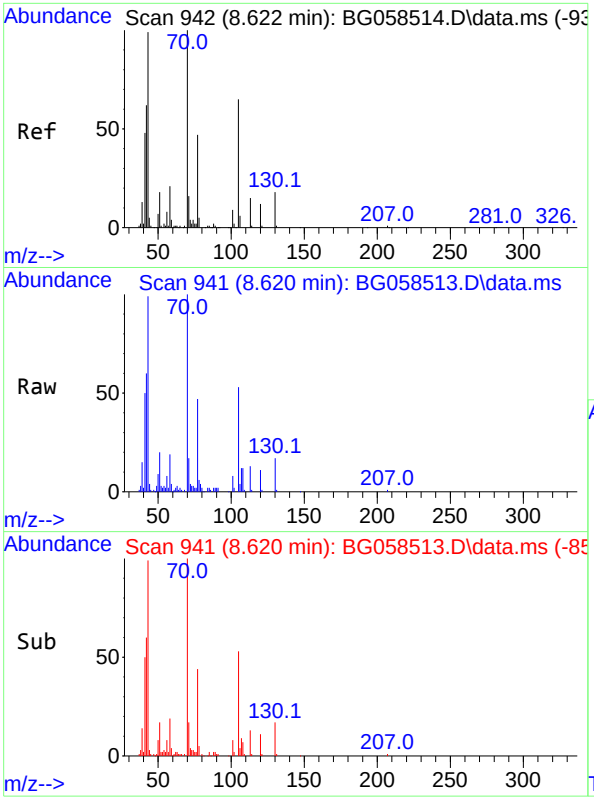


#18
Hexachloroethane
Concen: 21.111 ng
RT: 8.891 min Scan# 987
Delta R.T. -0.002 min
Lab File: BG058513.D
Acq: 28 Jul 2023 11:24

Tgt Ion:117 Resp: 30375

Ion	Ratio	Lower	Upper
117	100		
119	101.9	78.6	117.8
201	120.1	101.4	152.0

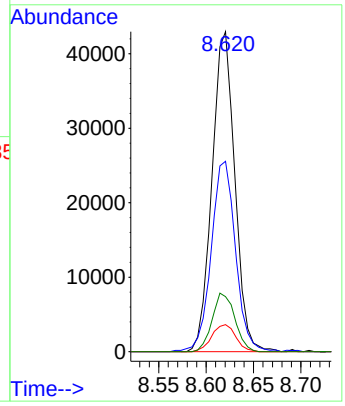




#19
n-Nitroso-di-n-propylamine
Concen: 21.271 ng
RT: 8.620 min Scan# 94
Delta R.T. -0.002 min
Lab File: BG058513.D
Acq: 28 Jul 2023 11:24

Tgt Ion: 70 Resp: 7195

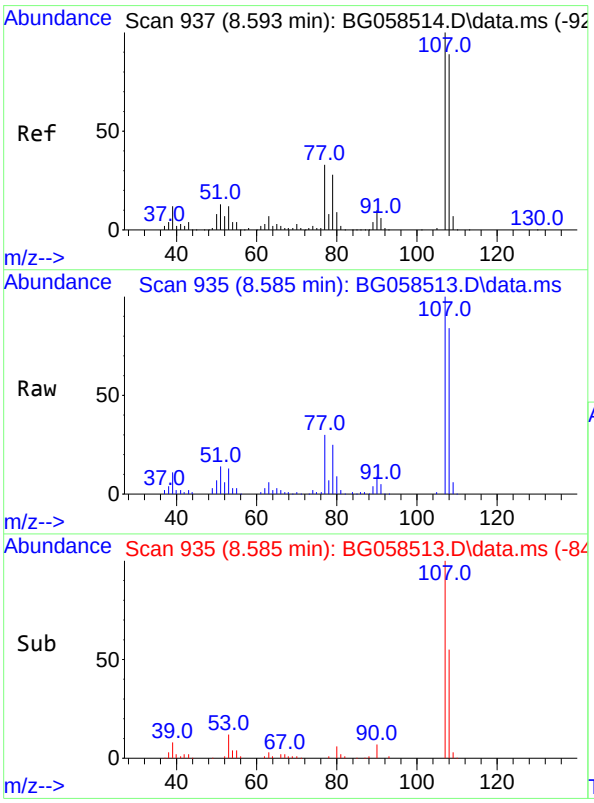
Ion	Ratio	Lower	Upper
70	100		
42	59.5	49.7	74.5
101	8.4	7.0	10.4
130	17.2	14.3	21.5



Instrument :
BNA_G
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

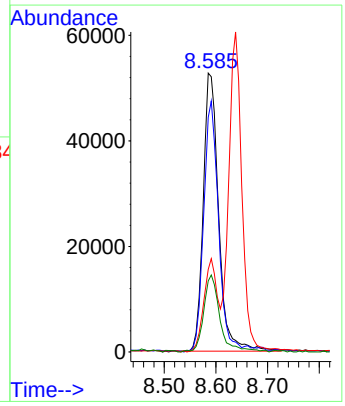
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

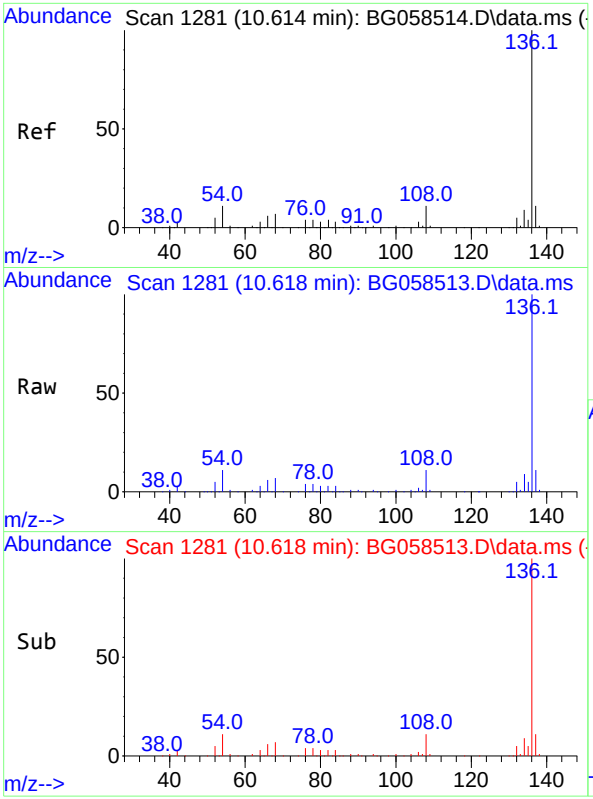


#20
3+4-Methylphenols
Concen: 21.582 ng
RT: 8.585 min Scan# 935
Delta R.T. -0.008 min
Lab File: BG058513.D
Acq: 28 Jul 2023 11:24

Tgt Ion:107 Resp: 109191

Ion	Ratio	Lower	Upper
107	100		
108	84.1	69.4	109.4
77	29.6	13.0	53.0
79	25.5	8.0	48.0

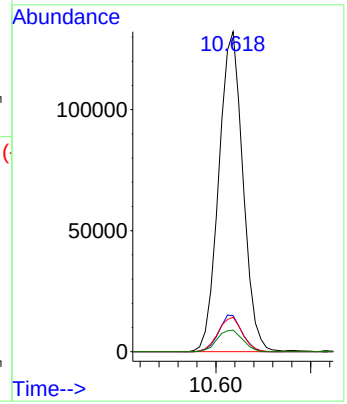




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.618 min Scan# 1
Delta R.T. 0.004 min
Lab File: BG058513.D
Acq: 28 Jul 2023 11:24

Tgt Ion:136 Resp: 23375

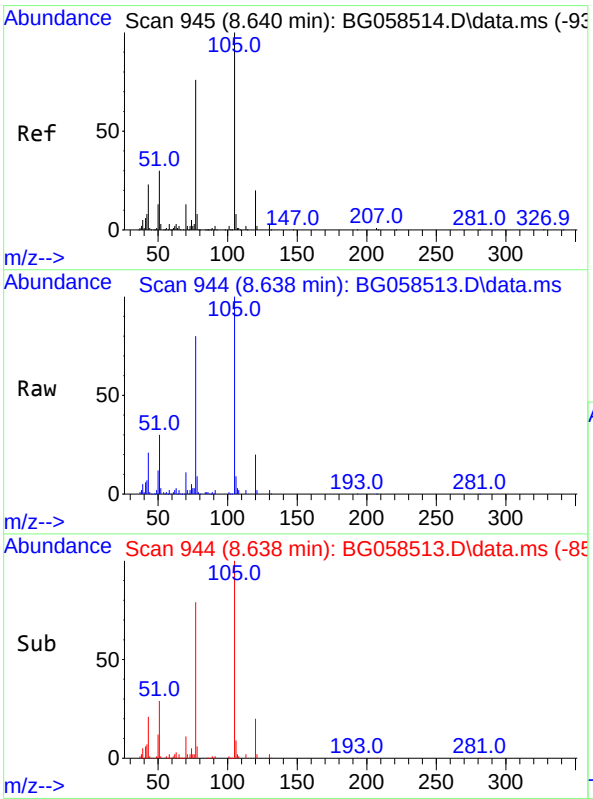
Ion	Ratio	Lower	Upper
136	100		
137	11.3	8.6	13.0
54	10.7	8.9	13.3
68	6.7	5.6	8.4



Instrument :
BNA_G
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

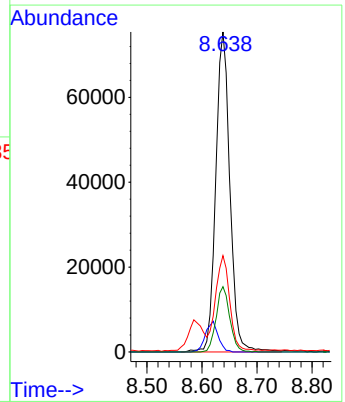
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

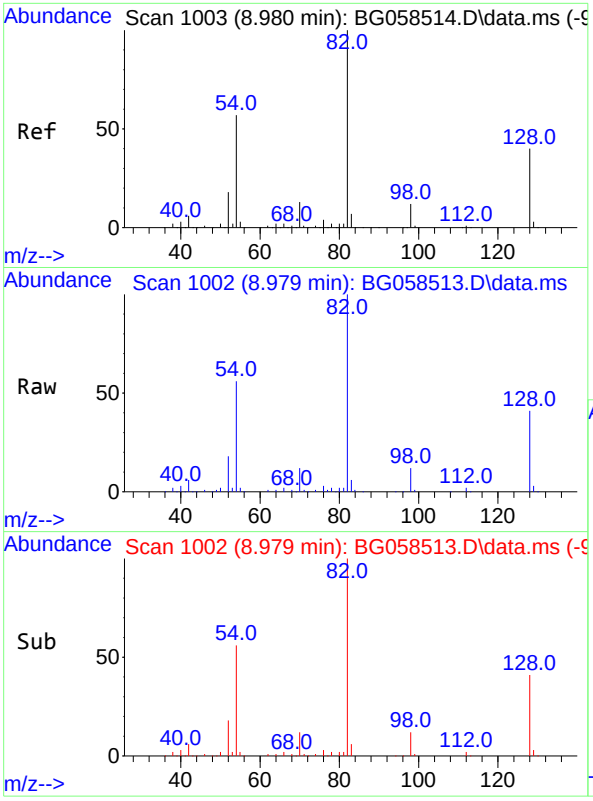


#22
Acetophenone
Concen: 21.545 ng
RT: 8.638 min Scan# 944
Delta R.T. -0.002 min
Lab File: BG058513.D
Acq: 28 Jul 2023 11:24

Tgt Ion:105 Resp: 134848

Ion	Ratio	Lower	Upper
105	100		
71	1.9	1.8	2.6
51	30.1	24.2	36.2
120	20.4	16.2	24.4

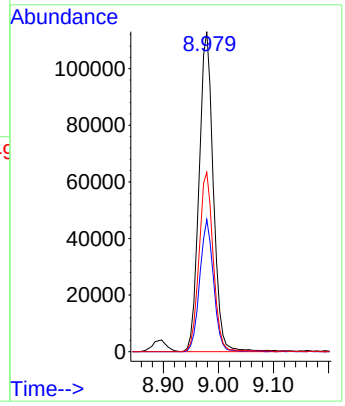




#23
Nitrobenzene-d5
Concen: 42.678 ng
RT: 8.979 min Scan# 1
Delta R.T. -0.002 min
Lab File: BG058513.D
Acq: 28 Jul 2023 11:24

Tgt Ion: 82 Resp: 20307

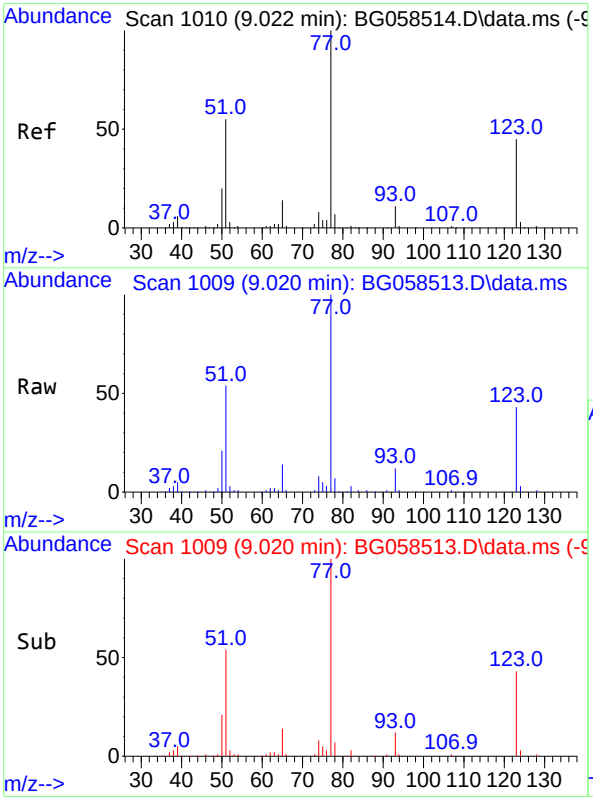
Ion	Ratio	Lower	Upper
82	100		
128	41.3	32.2	48.2
54	56.1	46.0	69.0



Instrument :
BNA_G
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

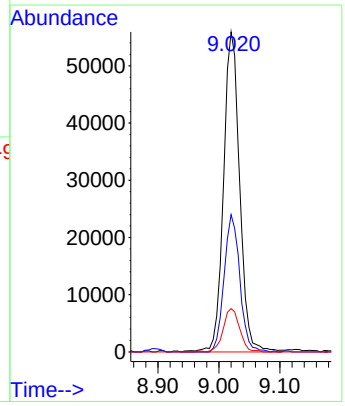
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

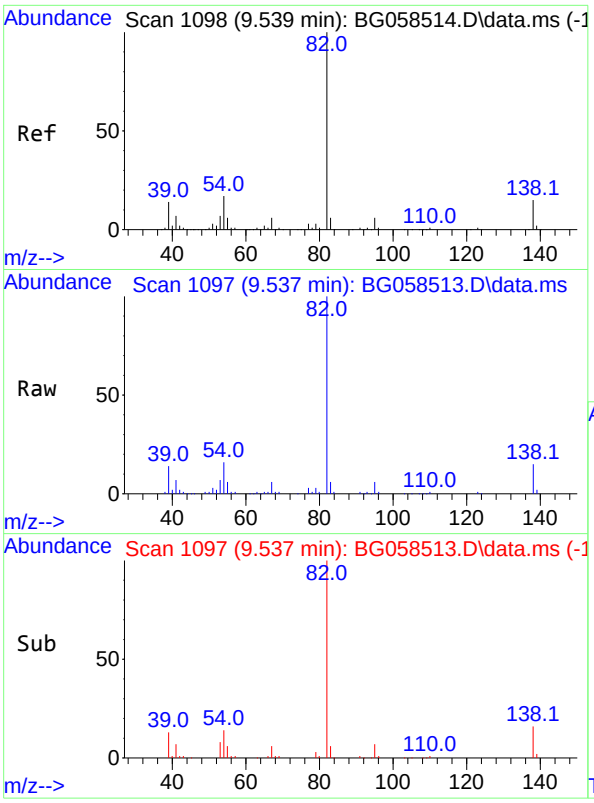


#24
Nitrobenzene
Concen: 21.275 ng
RT: 9.020 min Scan# 1009
Delta R.T. -0.002 min
Lab File: BG058513.D
Acq: 28 Jul 2023 11:24

Tgt Ion: 77 Resp: 102916

Ion	Ratio	Lower	Upper
77	100		
123	42.9	35.6	53.4
65	13.5	11.4	17.0

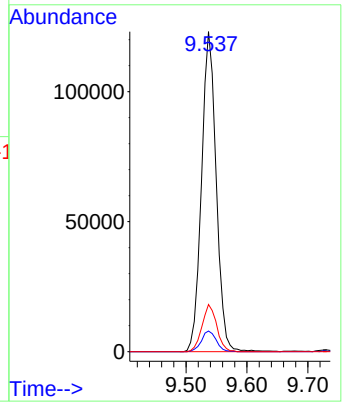




#25
Isophorone
Concen: 20.989 ng
RT: 9.537 min Scan# 1
Delta R.T. -0.002 min
Lab File: BG058513.D
Acq: 28 Jul 2023 11:24

Tgt Ion: 82 Resp: 20635

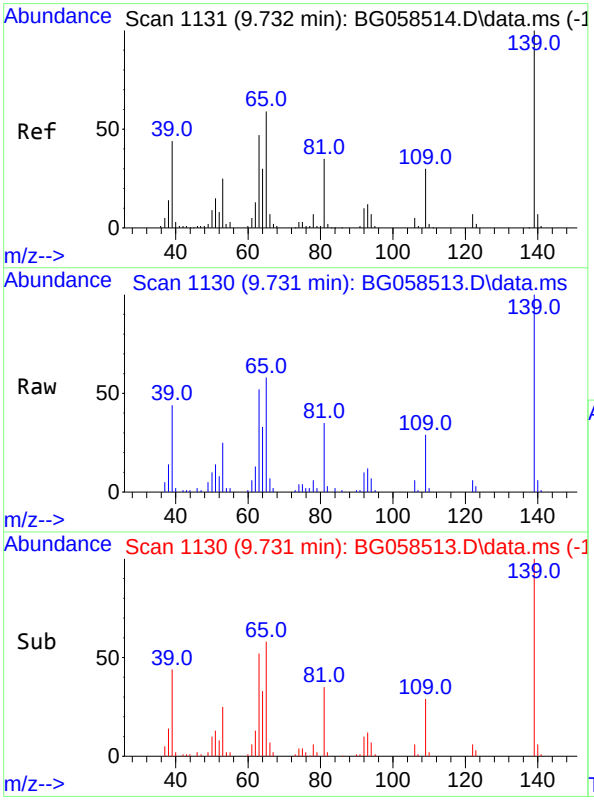
Ion	Ratio	Lower	Upper
82	100		
95	6.5	5.1	7.7
138	14.8	11.9	17.9



Instrument :
BNA_G
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

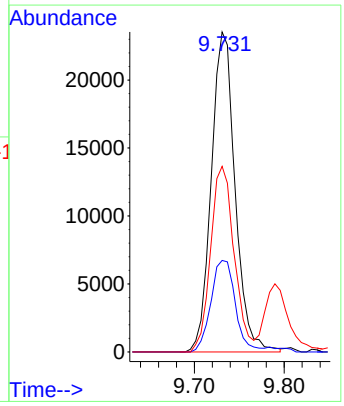
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

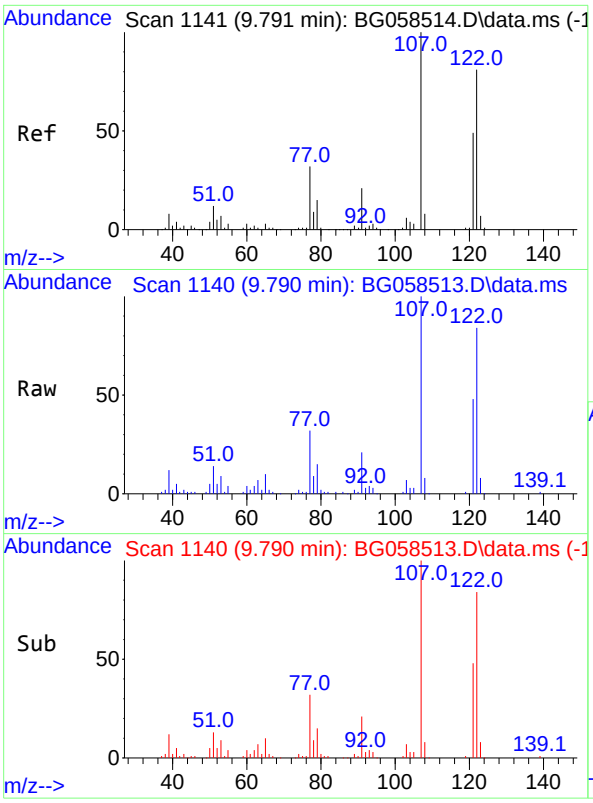


#26
2-Nitrophenol
Concen: 20.542 ng
RT: 9.731 min Scan# 1130
Delta R.T. -0.002 min
Lab File: BG058513.D
Acq: 28 Jul 2023 11:24

Tgt Ion:139 Resp: 43256

Ion	Ratio	Lower	Upper
139	100		
109	28.6	24.2	36.2
65	58.0	47.0	70.4





#27
2,4-Dimethylphenol
Concen: 21.213 ng
RT: 9.790 min Scan# 11
Delta R.T. -0.002 min
Lab File: BG058513.D
Acq: 28 Jul 2023 11:24

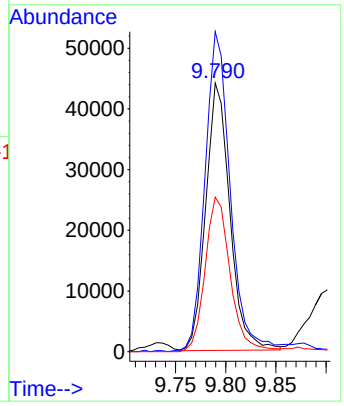
Tgt Ion:122 Resp: 7409

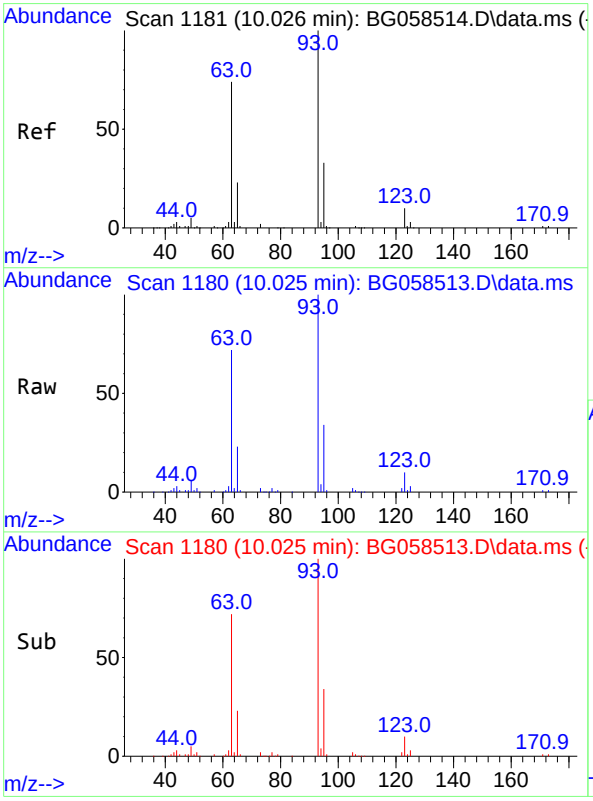
Ion	Ratio	Lower	Upper
122	100		
107	119.1	98.0	147.0
121	57.6	47.8	71.6

Instrument :
BNA_G
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

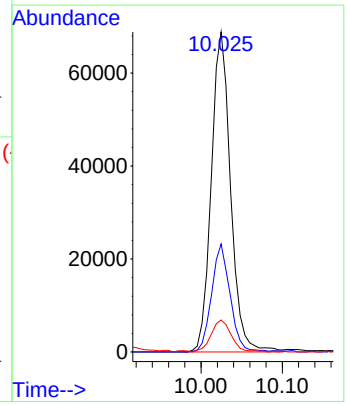


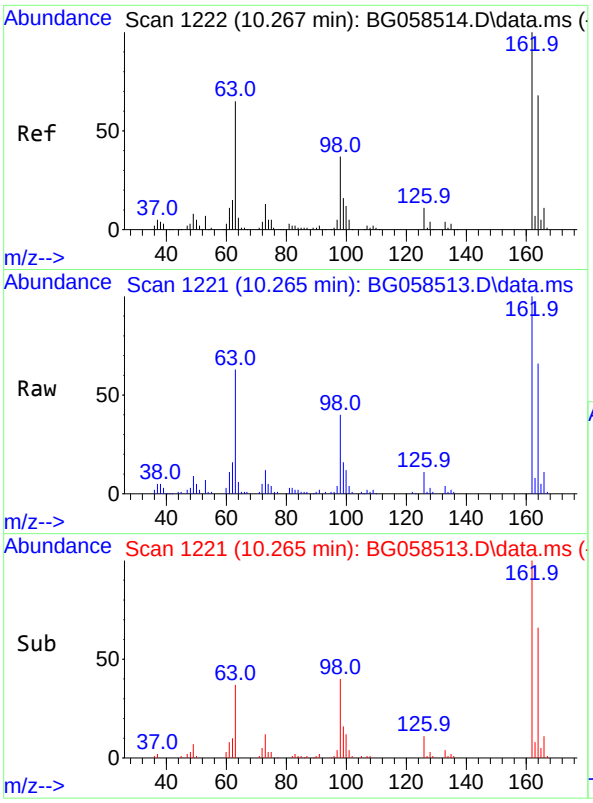


#28
bis(2-Chloroethoxy)methane
Concen: 21.200 ng
RT: 10.025 min Scan# 1180
Delta R.T. -0.002 min
Lab File: BG058513.D
Acq: 28 Jul 2023 11:24

Tgt Ion: 93 Resp: 113426

Ion	Ratio	Lower	Upper
93	100		
95	33.7	26.0	39.0
123	10.0	7.8	11.8

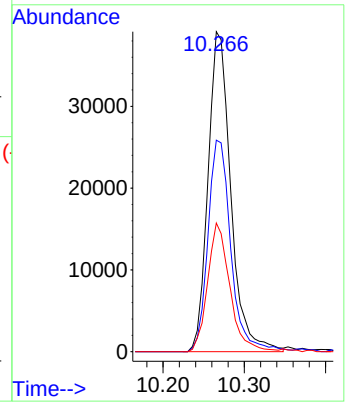




#29
2,4-Dichlorophenol
Concen: 21.006 ng
RT: 10.265 min Scan# 1
Delta R.T. -0.002 min
Lab File: BG058513.D
Acq: 28 Jul 2023 11:24

Tgt Ion:162 Resp: 7618

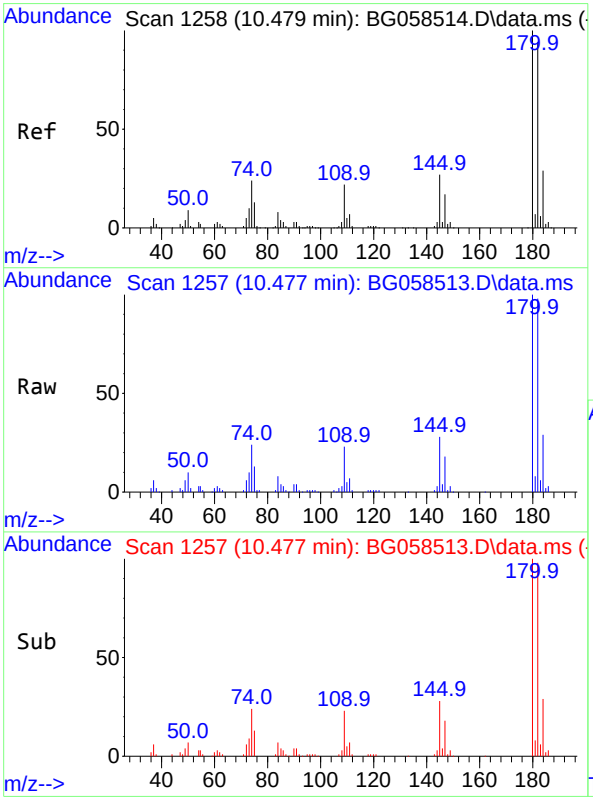
Ion	Ratio	Lower	Upper
162	100		
164	66.1	47.6	87.6
98	40.2	17.1	57.1



Instrument :
BNA_G
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

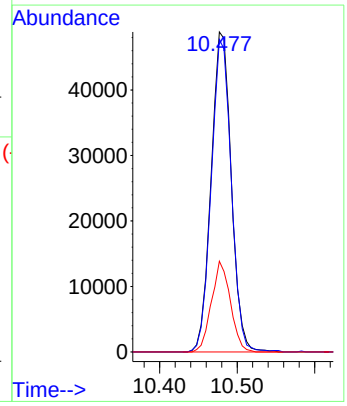
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

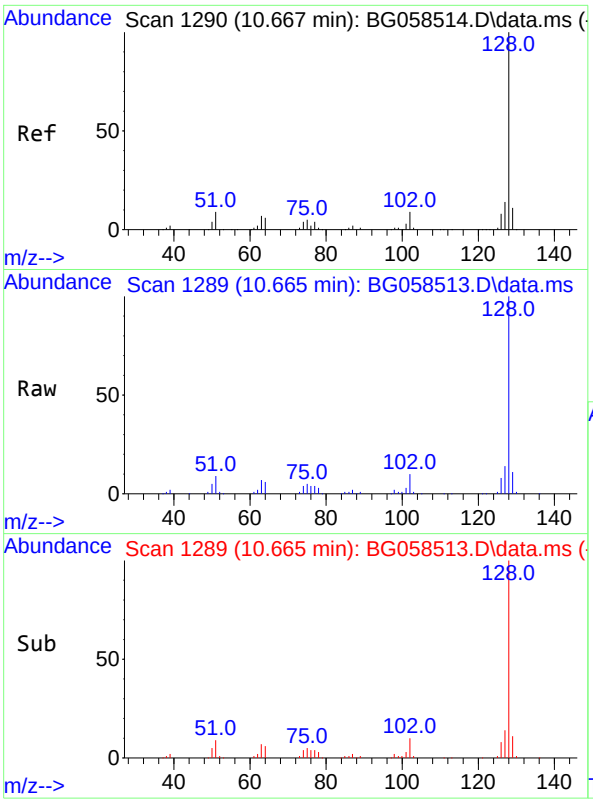


#30
1,2,4-Trichlorobenzene
Concen: 21.042 ng
RT: 10.477 min Scan# 1257
Delta R.T. -0.002 min
Lab File: BG058513.D
Acq: 28 Jul 2023 11:24

Tgt Ion:180 Resp: 88007

Ion	Ratio	Lower	Upper
180	100		
182	97.7	75.0	112.4
145	28.4	21.9	32.9

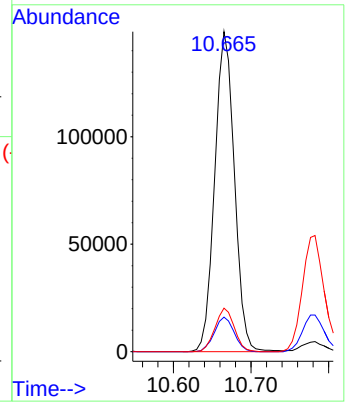




#31
Naphthalene
Concen: 21.297 ng
RT: 10.665 min Scan# 1
Delta R.T. -0.002 min
Lab File: BG058513.D
Acq: 28 Jul 2023 11:24

Tgt Ion:128 Resp: 26238

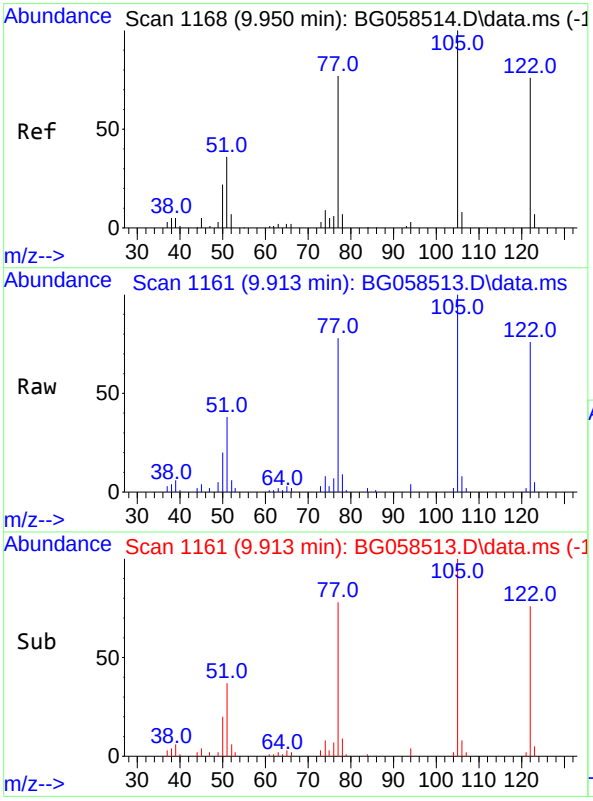
Ion	Ratio	Lower	Upper
128	100		
129	10.8	8.8	13.2
127	13.6	10.9	16.3



Instrument :
BNA_G
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

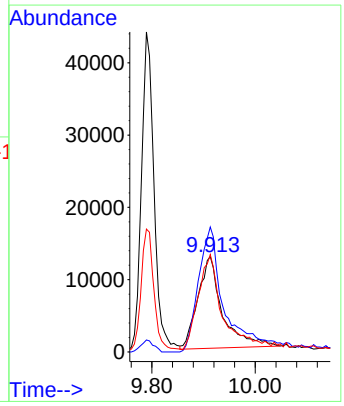
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

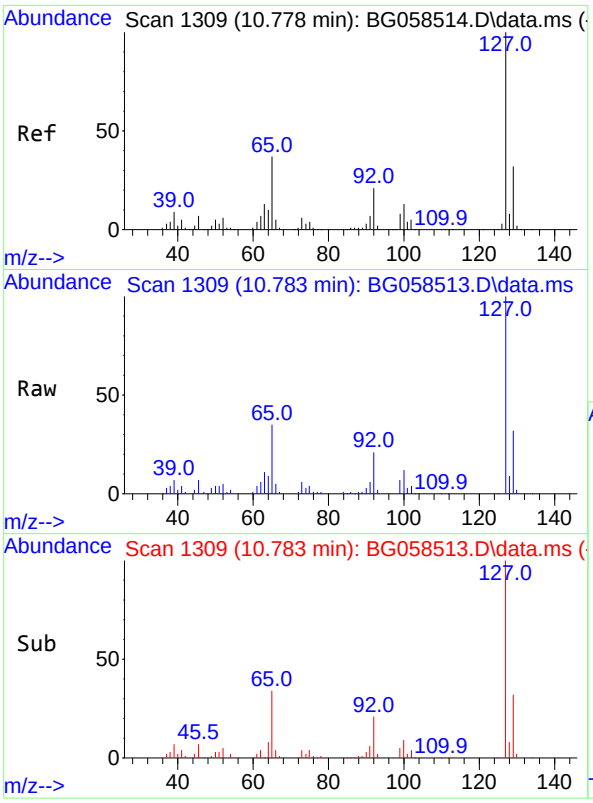


#32
Benzoic acid
Concen: 18.328 ng
RT: 9.913 min Scan# 1161
Delta R.T. -0.037 min
Lab File: BG058513.D
Acq: 28 Jul 2023 11:24

Tgt Ion:122 Resp: 42089

Ion	Ratio	Lower	Upper
122	100		
105	130.9	106.5	146.5
77	102.1	78.1	118.1

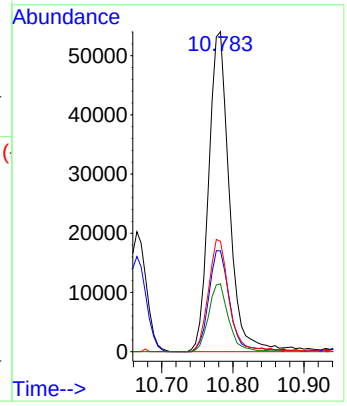




#33
4-Chloroaniline
Concen: 20.852 ng
RT: 10.783 min Scan# 1
Delta R.T. 0.004 min
Lab File: BG058513.D
Acq: 28 Jul 2023 11:24

Tgt Ion:127 Resp: 10854

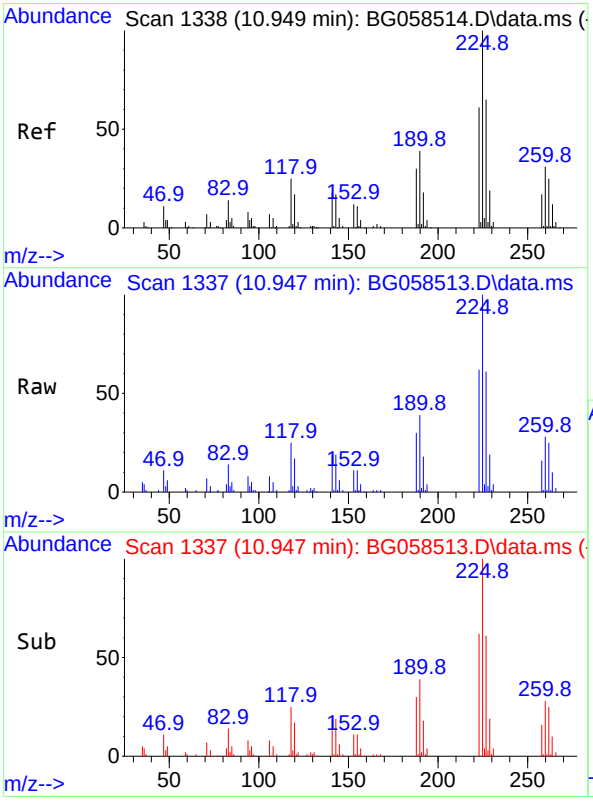
Ion	Ratio	Lower	Upper
127	100		
129	31.5	25.4	38.2
65	34.5	29.5	44.3
92	21.2	16.6	24.8



Instrument :
BNA_G
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

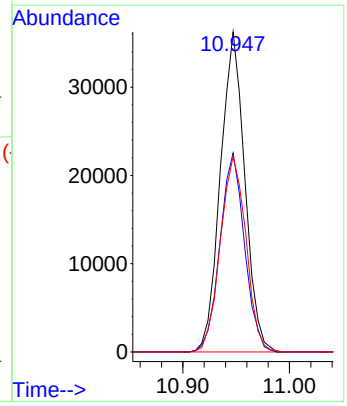
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

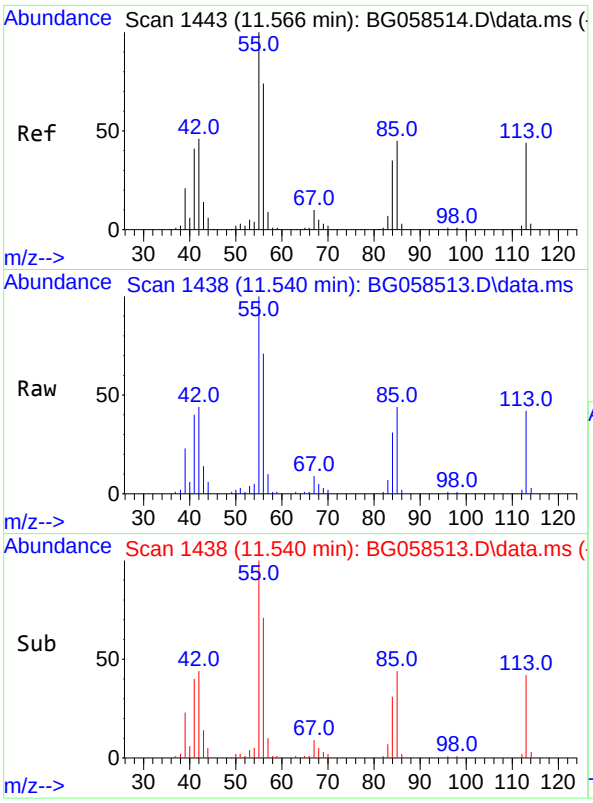


#34
Hexachlorobutadiene
Concen: 21.327 ng
RT: 10.947 min Scan# 1337
Delta R.T. -0.002 min
Lab File: BG058513.D
Acq: 28 Jul 2023 11:24

Tgt Ion:225 Resp: 57444

Ion	Ratio	Lower	Upper
225	100		
223	62.1	49.0	73.6
227	61.1	51.7	77.5

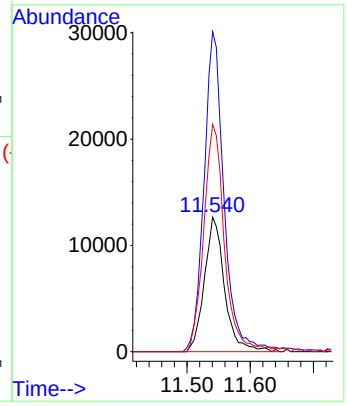




#35
Caprolactam
Concen: 20.946 ng
RT: 11.540 min Scan# 14
Delta R.T. -0.025 min
Lab File: BG058513.D
Acq: 28 Jul 2023 11:24

Tgt Ion:113 Resp: 2805

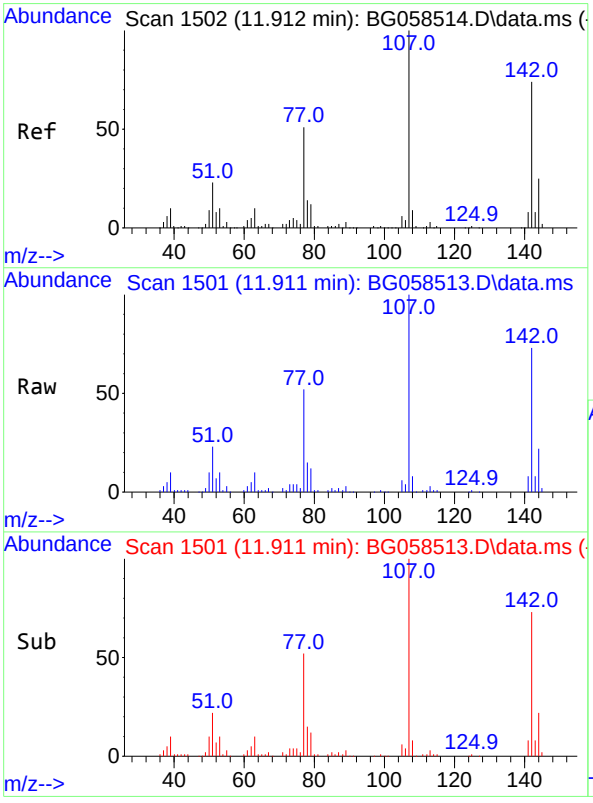
Ion	Ratio	Lower	Upper
113	100		
55	237.8	208.0	248.0
56	168.9	148.6	188.6



Instrument :
BNA_G
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

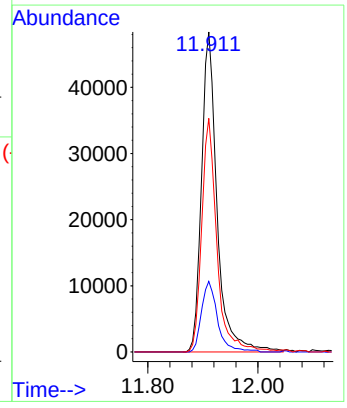
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

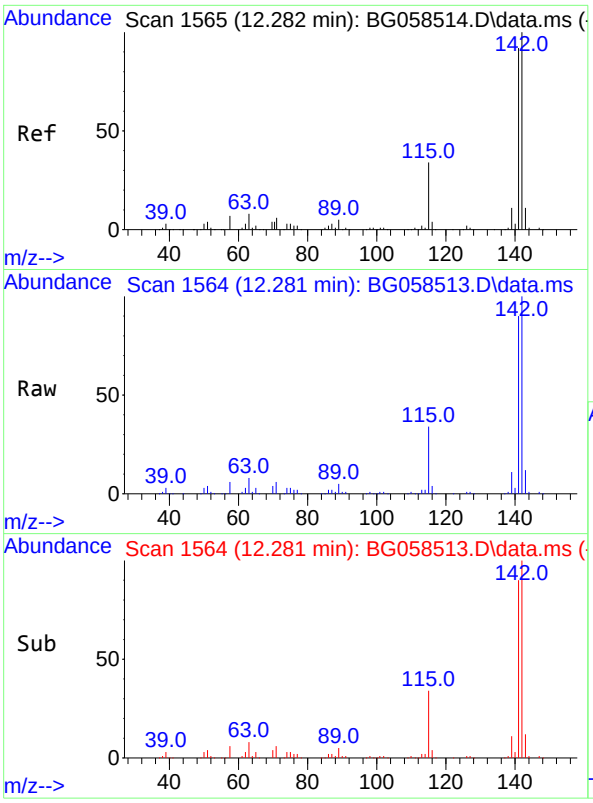


#36
4-Chloro-3-methylphenol
Concen: 21.170 ng
RT: 11.911 min Scan# 1501
Delta R.T. -0.002 min
Lab File: BG058513.D
Acq: 28 Jul 2023 11:24

Tgt Ion:107 Resp: 94975

Ion	Ratio	Lower	Upper
107	100		
144	22.1	19.6	29.4
142	73.0	59.3	88.9

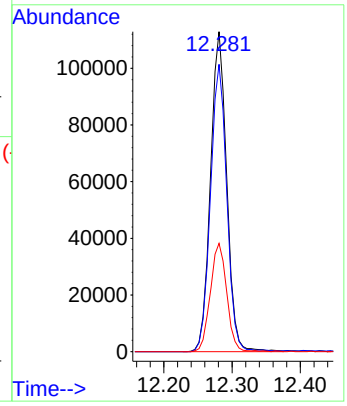




#37
2-Methylnaphthalene
Concen: 21.116 ng
RT: 12.281 min Scan# 1
Delta R.T. -0.002 min
Lab File: BG058513.D
Acq: 28 Jul 2023 11:24

Tgt Ion:142 Resp: 18609

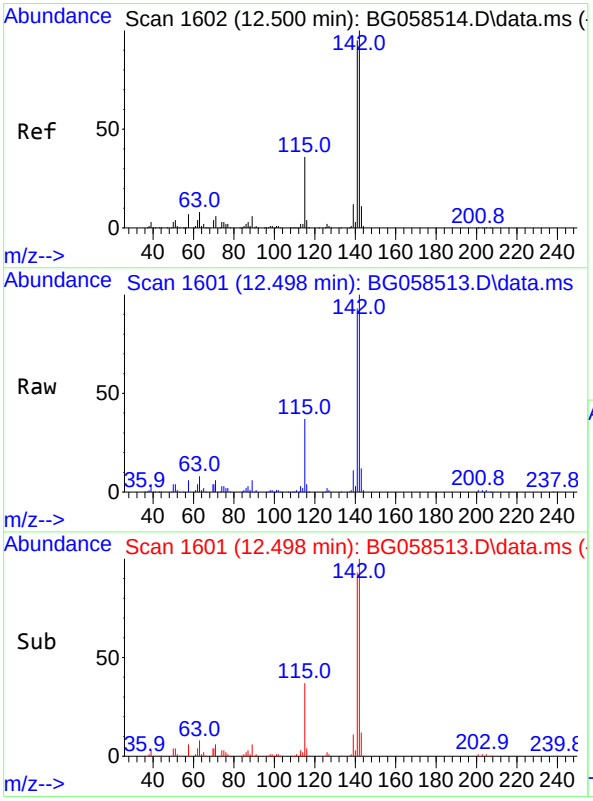
Ion	Ratio	Lower	Upper
142	100		
141	89.8	73.5	110.3
115	33.9	27.4	41.0



Instrument :
BNA_G
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

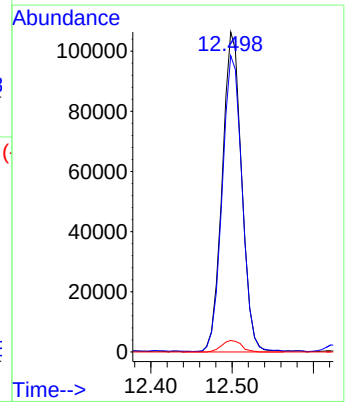
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

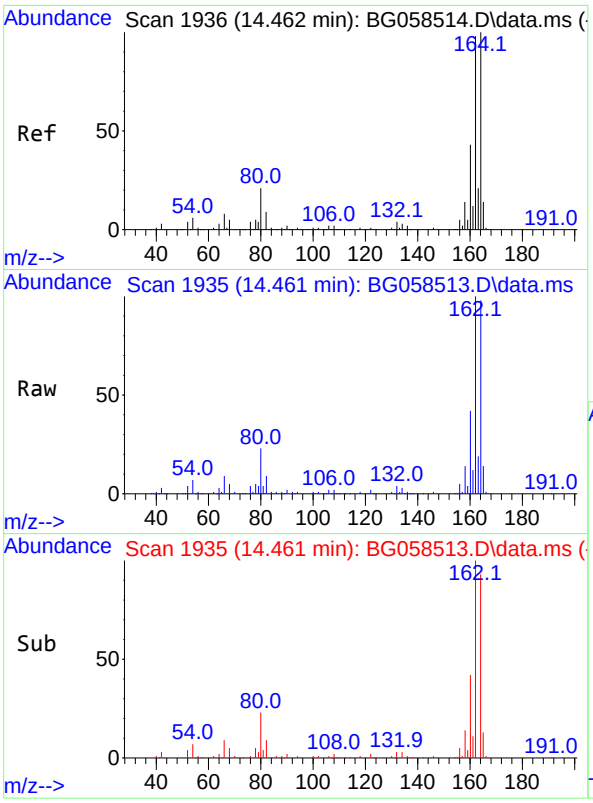


#38
1-Methylnaphthalene
Concen: 21.128 ng
RT: 12.498 min Scan# 1601
Delta R.T. -0.002 min
Lab File: BG058513.D
Acq: 28 Jul 2023 11:24

Tgt Ion:142 Resp: 176996

Ion	Ratio	Lower	Upper
142	100		
141	92.6	75.7	113.5
116	3.6	3.2	4.8

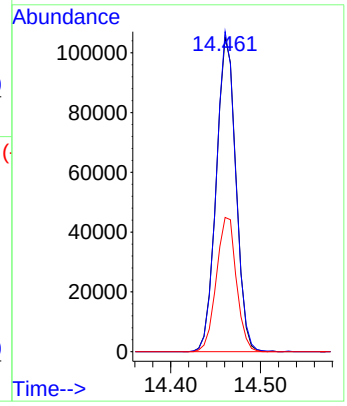




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.461 min Scan# 1
Delta R.T. -0.002 min
Lab File: BG058513.D
Acq: 28 Jul 2023 11:24

Tgt Ion:164 Resp: 15989

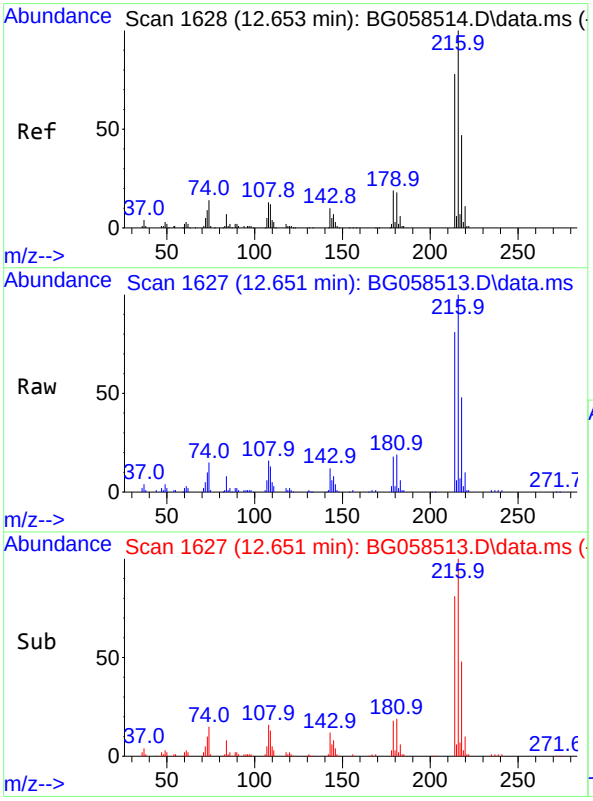
Ion	Ratio	Lower	Upper
164	100		
162	101.8	78.3	117.5
160	42.7	34.1	51.1



Instrument :
BNA_G
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

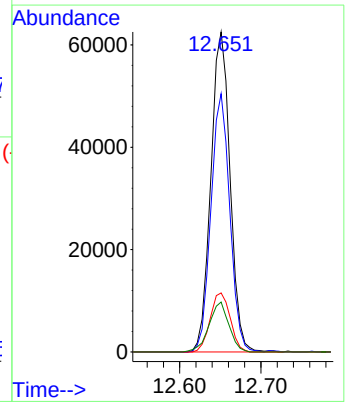
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

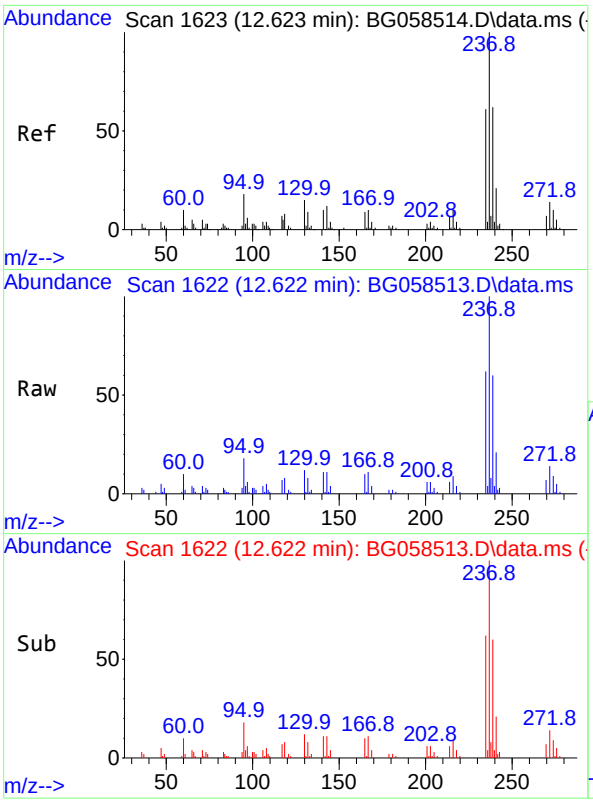


#40
1,2,4,5-Tetrachlorobenzene
Concen: 20.904 ng
RT: 12.651 min Scan# 1627
Delta R.T. -0.002 min
Lab File: BG058513.D
Acq: 28 Jul 2023 11:24

Tgt Ion:216 Resp: 102613

Ion	Ratio	Lower	Upper
216	100		
214	79.2	63.1	94.7
179	19.2	15.6	23.4
108	16.2	12.7	19.1

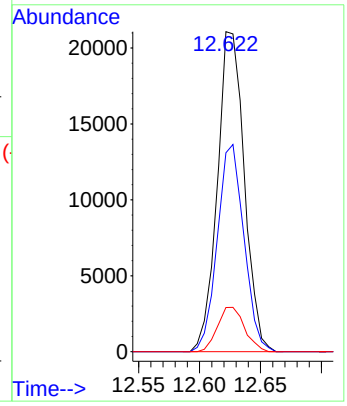




#41
Hexachlorocyclopentadiene
Concen: 19.831 ng
RT: 12.622 min Scan# 1
Delta R.T. -0.001 min
Lab File: BG058513.D
Acq: 28 Jul 2023 11:24

Tgt Ion:237 Resp: 3244

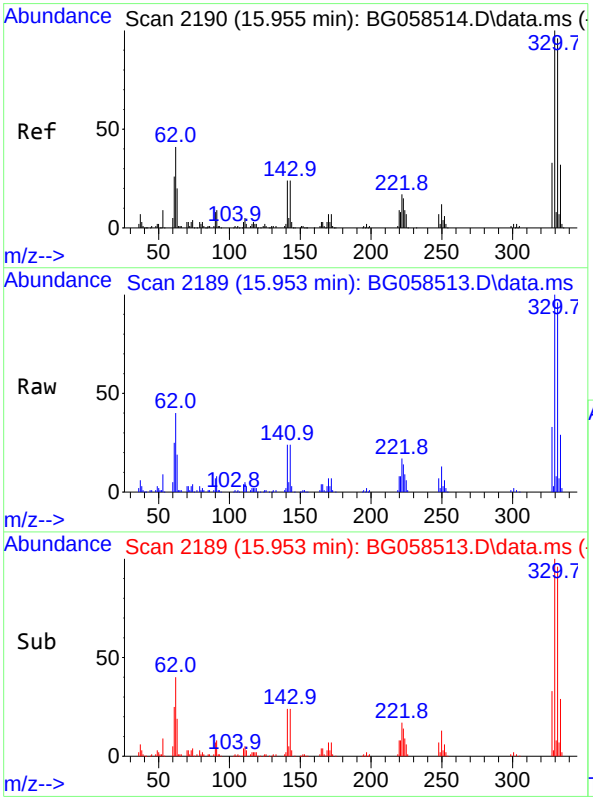
Ion	Ratio	Lower	Upper
237	100		
235	62.1	41.0	81.0
272	13.8	0.0	33.6



Instrument :
BNA_G
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

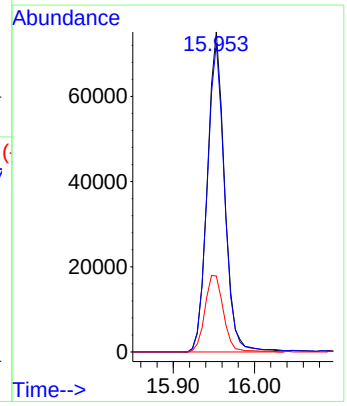
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

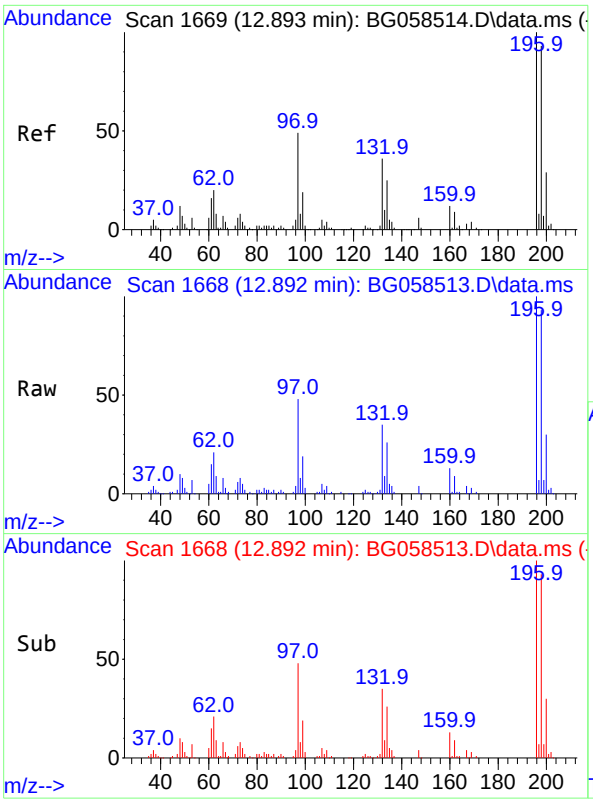


#42
2,4,6-Tribromophenol
Concen: 42.183 ng
RT: 15.953 min Scan# 2189
Delta R.T. -0.002 min
Lab File: BG058513.D
Acq: 28 Jul 2023 11:24

Tgt Ion:330 Resp: 110551

Ion	Ratio	Lower	Upper
330	100		
332	97.8	77.5	116.3
141	25.8	20.7	31.1

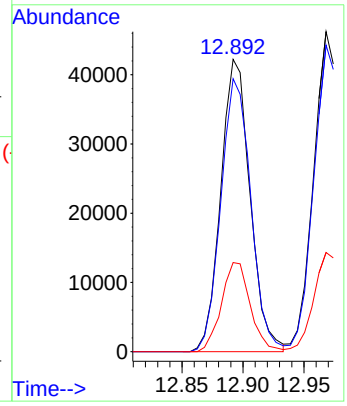




#43
2,4,6-Trichlorophenol
Concen: 20.953 ng
RT: 12.892 min Scan# 1
Delta R.T. -0.002 min
Lab File: BG058513.D
Acq: 28 Jul 2023 11:24

Tgt Ion:196 Resp: 7074

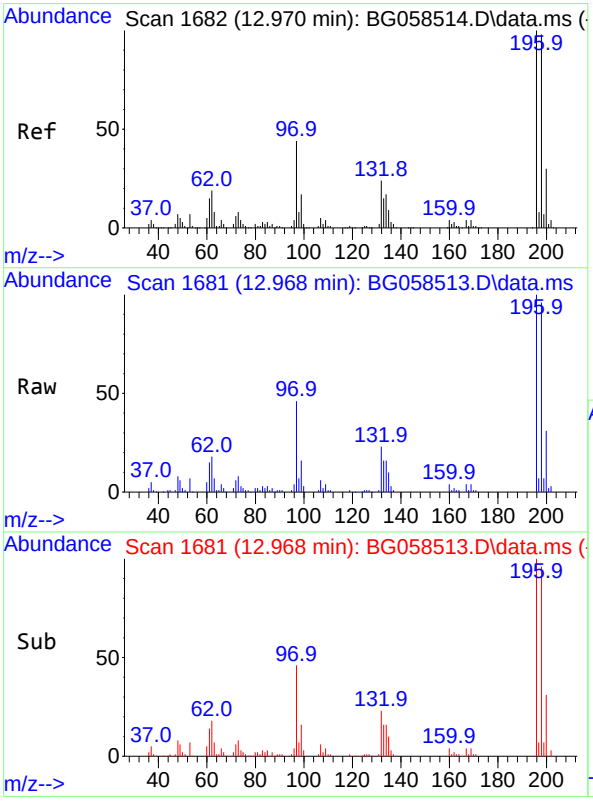
Ion	Ratio	Lower	Upper
196	100		
198	93.4	74.2	111.4
200	30.5	22.9	34.3



Instrument :
BNA_G
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

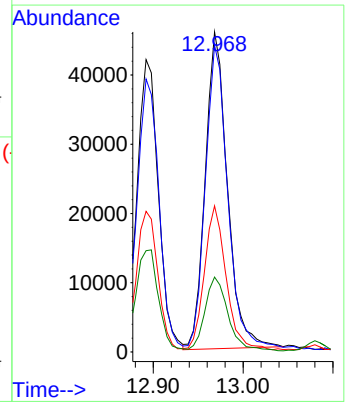
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

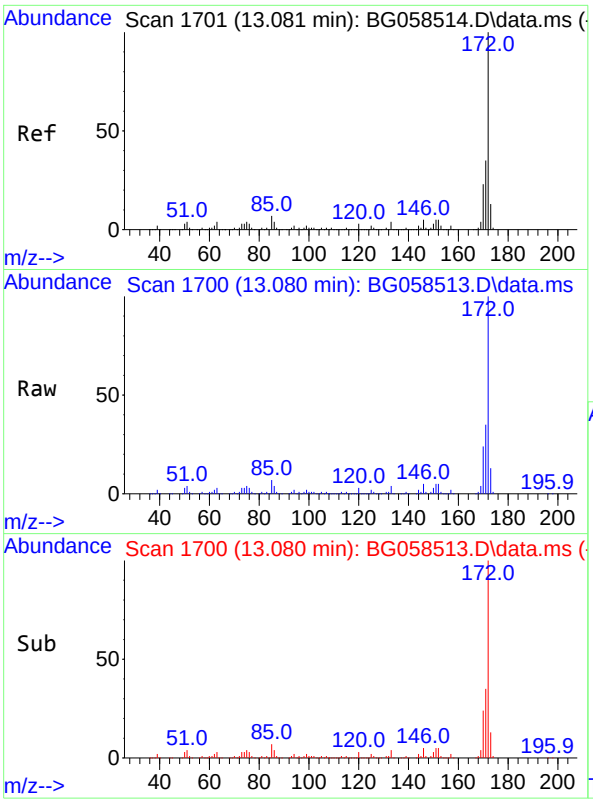


#44
2,4,5-Trichlorophenol
Concen: 19.814 ng
RT: 12.968 min Scan# 1681
Delta R.T. -0.002 min
Lab File: BG058513.D
Acq: 28 Jul 2023 11:24

Tgt Ion:196 Resp: 78799

Ion	Ratio	Lower	Upper
196	100		
198	95.8	78.3	117.5
97	45.6	35.2	52.8
132	23.4	19.4	29.0

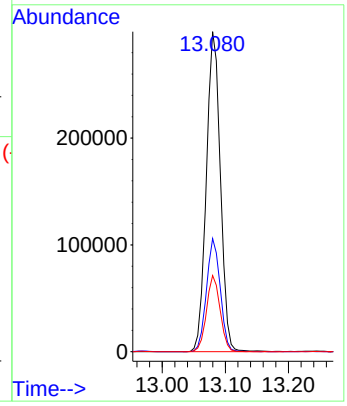




#45
2-Fluorobiphenyl
Concen: 43.431 ng
RT: 13.080 min Scan# 1
Delta R.T. -0.002 min
Lab File: BG058513.D
Acq: 28 Jul 2023 11:24

Tgt Ion:172 Resp: 46338

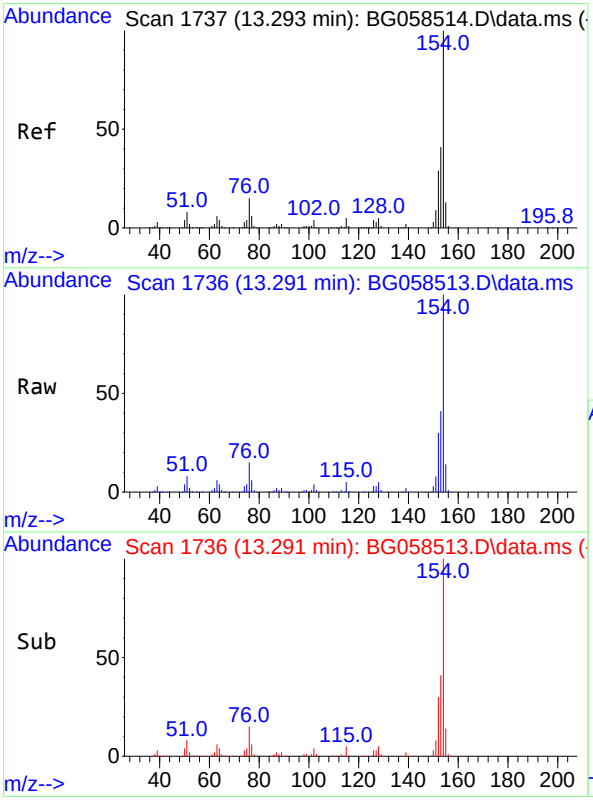
Ion	Ratio	Lower	Upper
172	100		
171	35.3	28.0	42.0
170	23.8	18.4	27.6



Instrument :
BNA_G
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

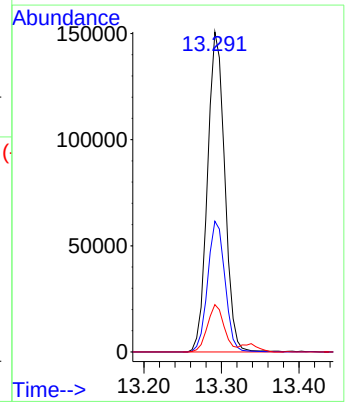
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

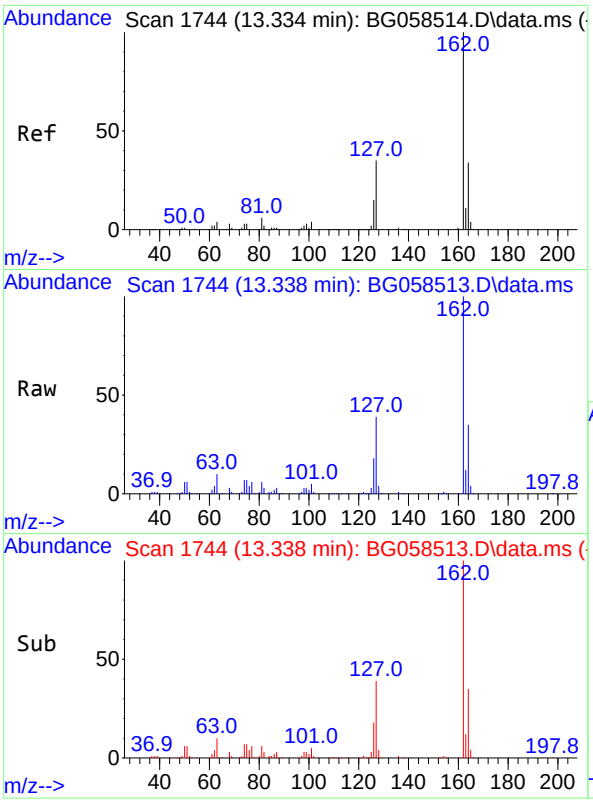


#46
1,1'-Biphenyl
Concen: 21.193 ng
RT: 13.291 min Scan# 1736
Delta R.T. -0.002 min
Lab File: BG058513.D
Acq: 28 Jul 2023 11:24

Tgt Ion:154 Resp: 232707

Ion	Ratio	Lower	Upper
154	100		
153	40.9	21.2	61.2
76	14.8	0.0	34.7

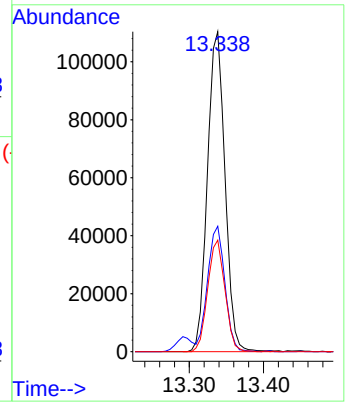




#47
2-Chloronaphthalene
Concen: 21.246 ng
RT: 13.338 min Scan# 1
Delta R.T. 0.004 min
Lab File: BG058513.D
Acq: 28 Jul 2023 11:24

Tgt Ion:162 Resp: 18190

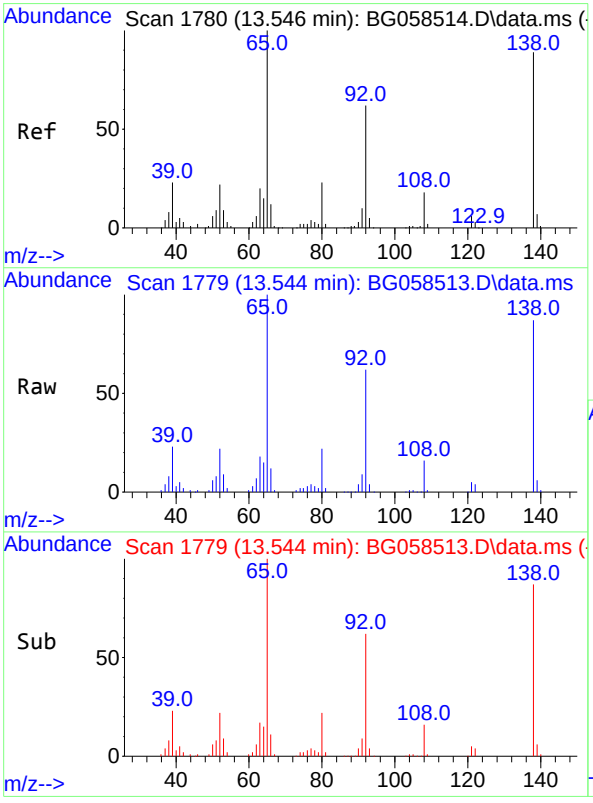
Ion	Ratio	Lower	Upper
162	100		
127	39.2	30.9	46.3
164	34.8	27.2	40.8



Instrument :
BNA_G
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

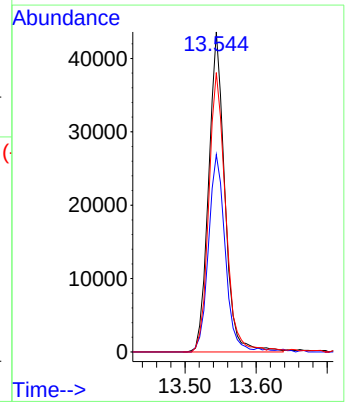
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

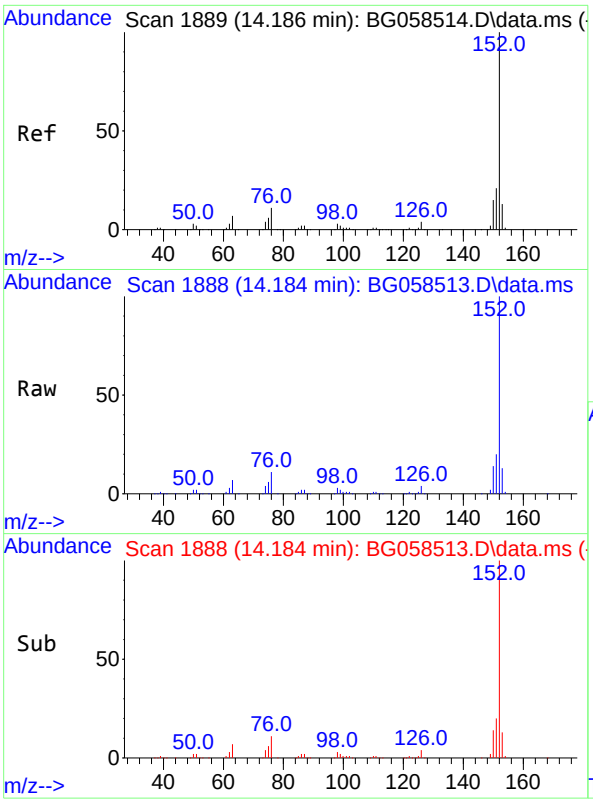


#48
2-Nitroaniline
Concen: 21.161 ng
RT: 13.544 min Scan# 1779
Delta R.T. -0.002 min
Lab File: BG058513.D
Acq: 28 Jul 2023 11:24

Tgt Ion: 65 Resp: 69151

Ion	Ratio	Lower	Upper
65	100		
92	61.7	49.2	73.8
138	87.3	71.5	107.3

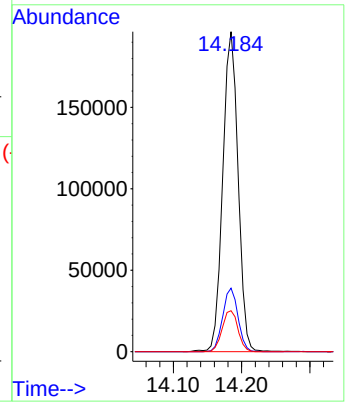




#49
Acenaphthylene
Concen: 21.408 ng
RT: 14.184 min Scan# 1
Delta R.T. -0.002 min
Lab File: BG058513.D
Acq: 28 Jul 2023 11:24

Tgt Ion:152 Resp: 30686

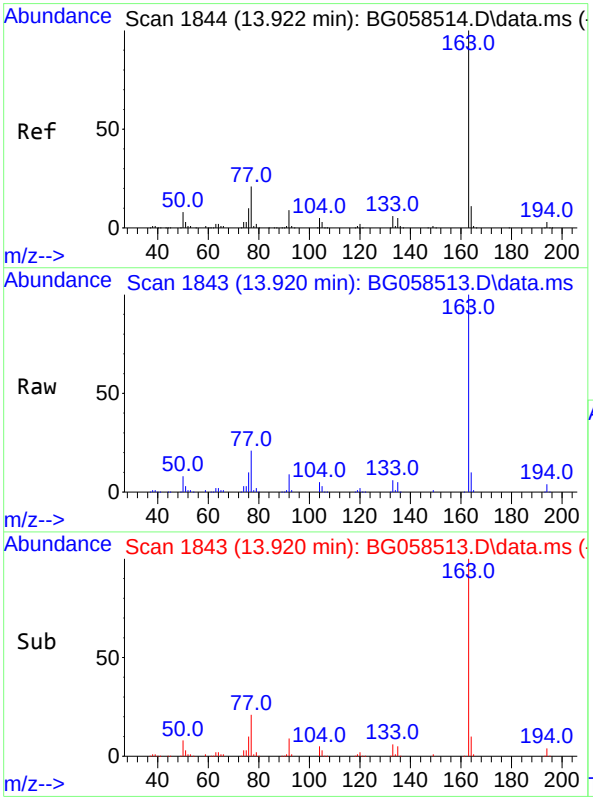
Ion	Ratio	Lower	Upper
152	100		
151	19.8	16.5	24.7
153	12.8	10.7	16.1



Instrument :
BNA_G
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

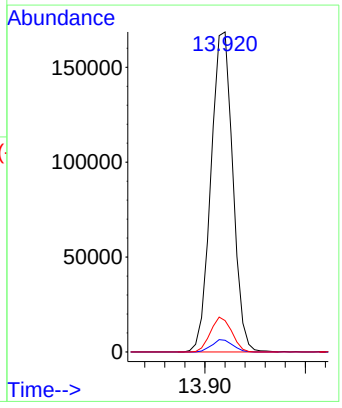
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

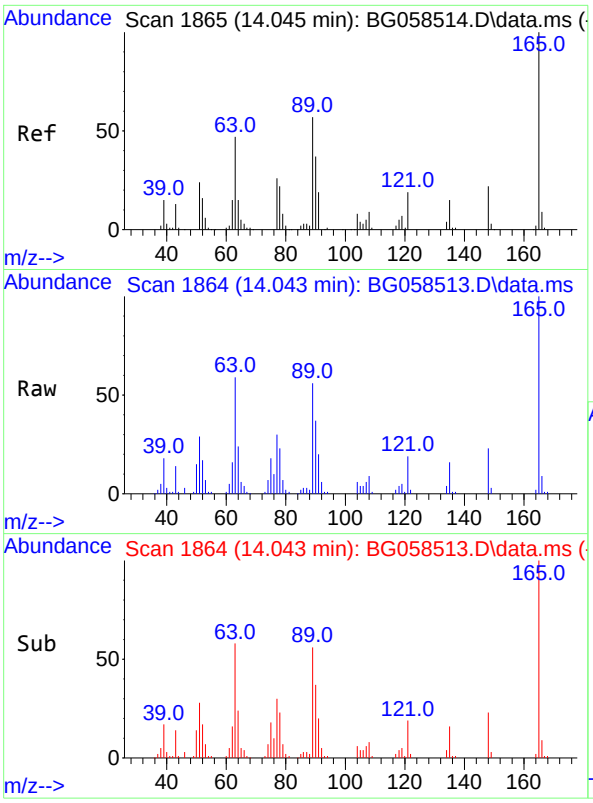


#50
Dimethylphthalate
Concen: 21.231 ng
RT: 13.920 min Scan# 1843
Delta R.T. -0.002 min
Lab File: BG058513.D
Acq: 28 Jul 2023 11:24

Tgt Ion:163 Resp: 254949

Ion	Ratio	Lower	Upper
163	100		
194	3.7	2.7	4.1
164	9.8	8.6	12.8

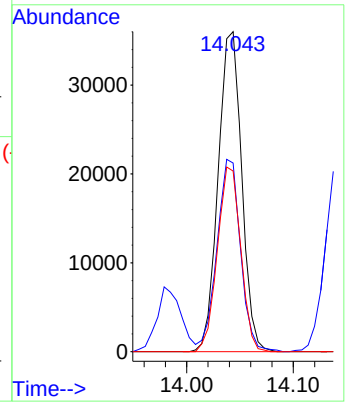




#51
2,6-Dinitrotoluene
Concen: 20.939 ng
RT: 14.043 min Scan# 1
Delta R.T. -0.002 min
Lab File: BG058513.D
Acq: 28 Jul 2023 11:24

Tgt Ion:165 Resp: 5517

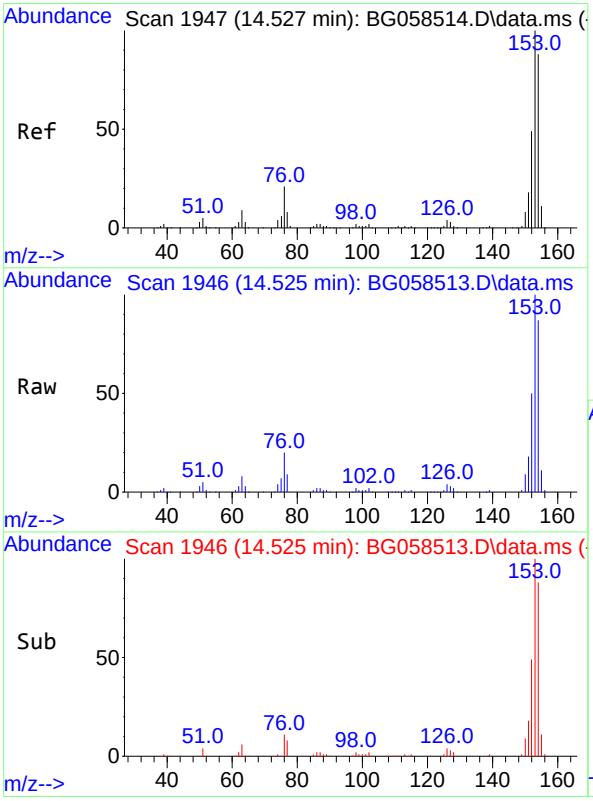
Ion	Ratio	Lower	Upper
165	100		
63	59.0	46.4	69.6
89	56.5	45.3	67.9



Instrument :
BNA_G
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

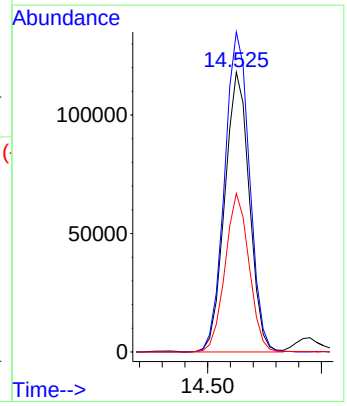
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

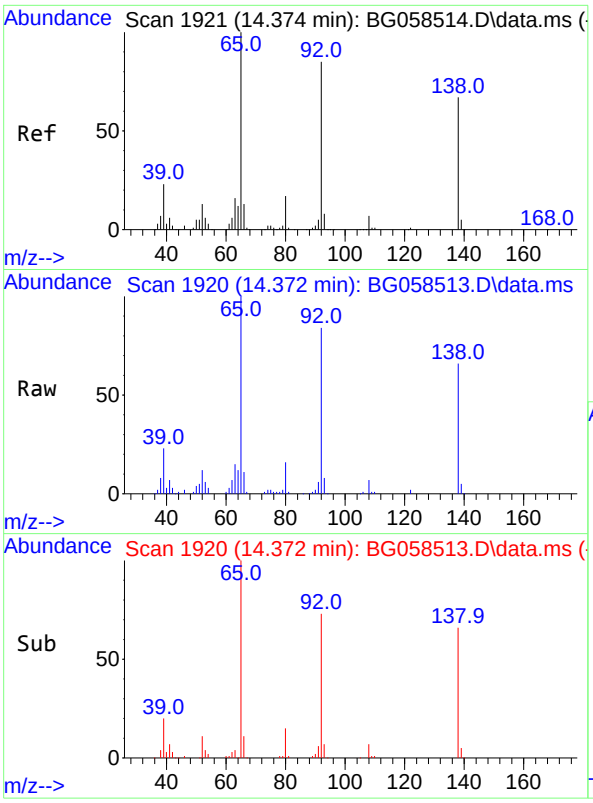


#52
Acenaphthene
Concen: 21.392 ng
RT: 14.525 min Scan# 1946
Delta R.T. -0.002 min
Lab File: BG058513.D
Acq: 28 Jul 2023 11:24

Tgt Ion:154 Resp: 177177

Ion	Ratio	Lower	Upper
154	100		
153	114.3	91.1	136.7
152	56.6	44.6	66.8

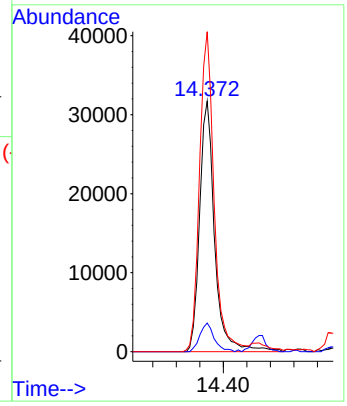




#53
3-Nitroaniline
Concen: 21.283 ng
RT: 14.372 min Scan# 1
Delta R.T. -0.002 min
Lab File: BG058513.D
Acq: 28 Jul 2023 11:24

Tgt Ion:138 Resp: 5610

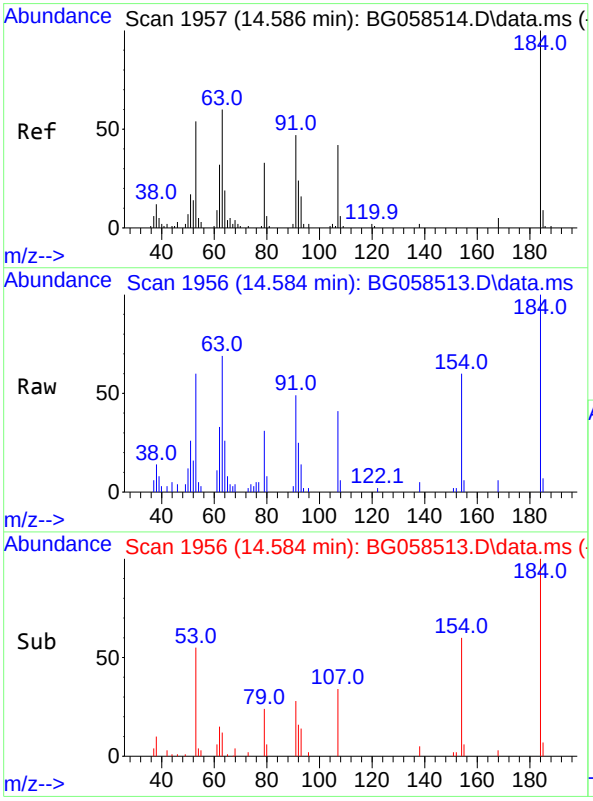
Ion	Ratio	Lower	Upper
138	100		
108	11.4	8.3	12.5
92	127.7	101.1	151.7



Instrument :
BNA_G
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

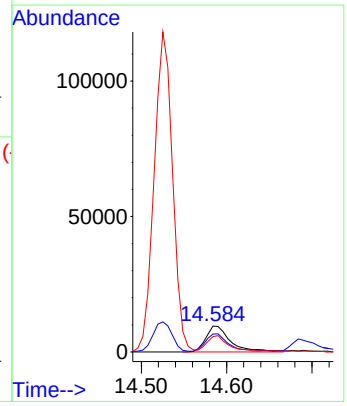
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

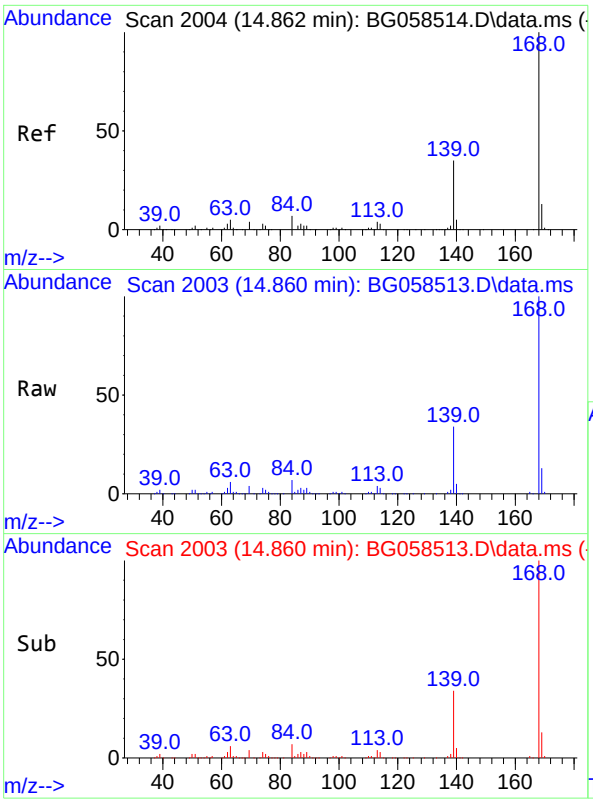


#54
2,4-Dinitrophenol
Concen: 19.232 ng
RT: 14.584 min Scan# 1956
Delta R.T. -0.002 min
Lab File: BG058513.D
Acq: 28 Jul 2023 11:24

Tgt Ion:184 Resp: 19250

Ion	Ratio	Lower	Upper
184	100		
63	69.1	56.7	85.1
154	59.5	46.1	69.1

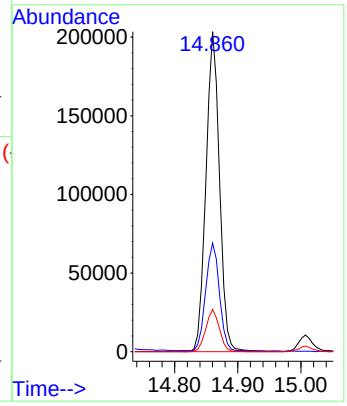




#55
Dibenzofuran
Concen: 21.331 ng
RT: 14.860 min Scan# 2
Delta R.T. -0.002 min
Lab File: BG058513.D
Acq: 28 Jul 2023 11:24

Tgt Ion:168 Resp: 30358

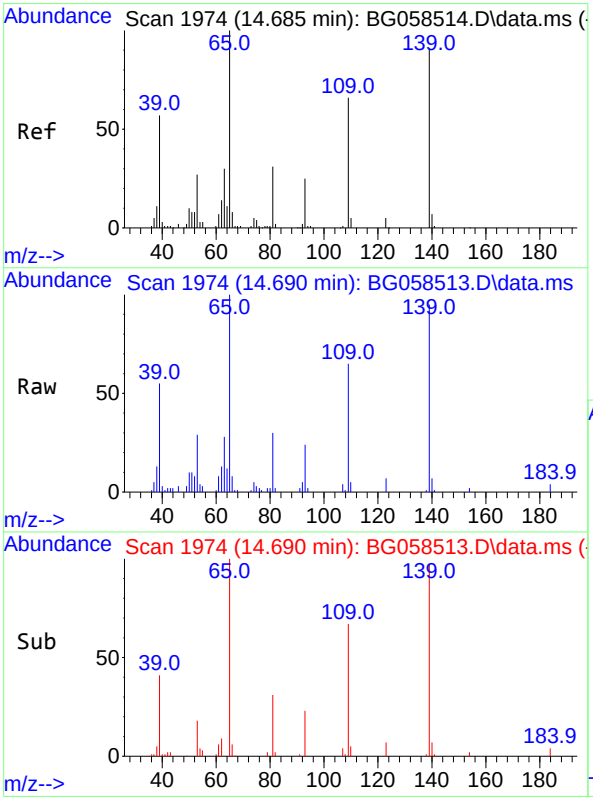
Ion	Ratio	Lower	Upper
168	100		
139	34.0	27.8	41.8
169	13.2	10.6	16.0



Instrument :
BNA_G
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

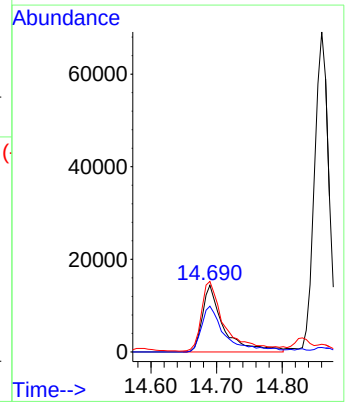
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

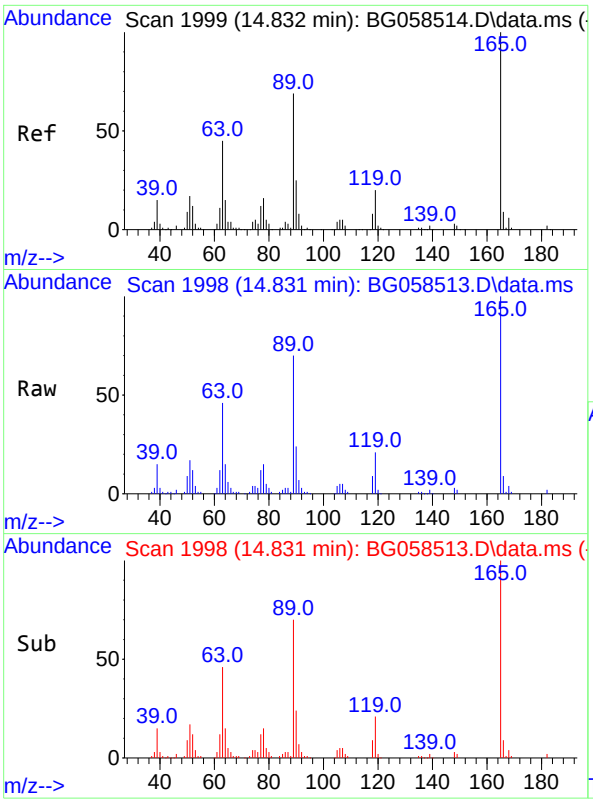


#56
4-Nitrophenol
Concen: 19.546 ng
RT: 14.690 min Scan# 1974
Delta R.T. 0.005 min
Lab File: BG058513.D
Acq: 28 Jul 2023 11:24

Tgt Ion:139 Resp: 32457

Ion	Ratio	Lower	Upper
139	100		
109	68.6	52.5	92.5
65	105.7	90.5	130.5

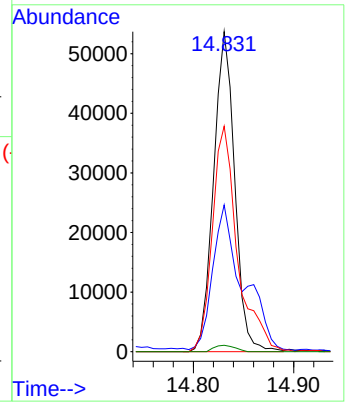




#57
2,4-Dinitrotoluene
Concen: 21.530 ng
RT: 14.831 min Scan# 1
Delta R.T. -0.001 min
Lab File: BG058513.D
Acq: 28 Jul 2023 11:24

Tgt Ion:165 Resp: 7864

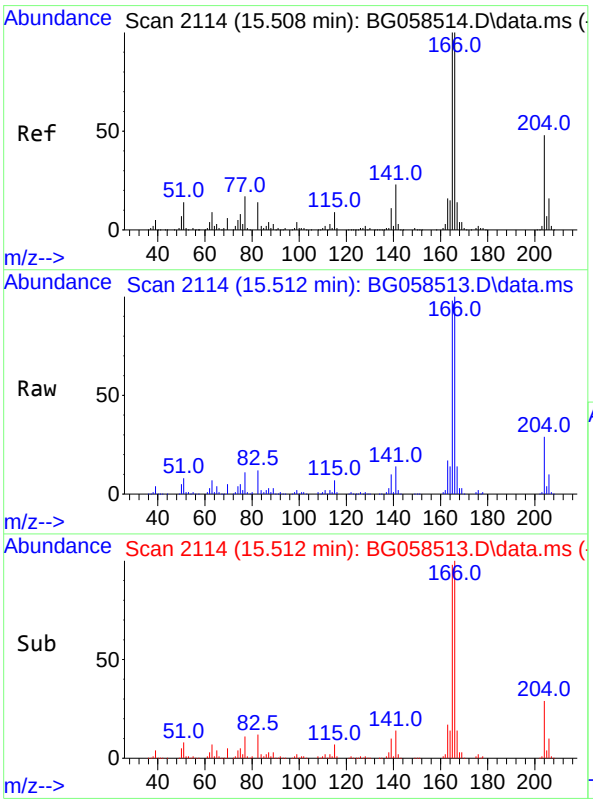
Ion	Ratio	Lower	Upper
165	100		
63	45.9	36.6	54.8
89	70.4	55.4	83.0
182	2.0	1.8	2.6



Instrument :
BNA_G
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

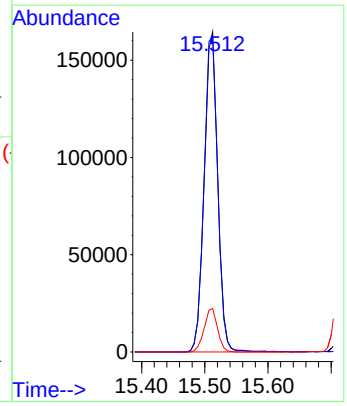
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

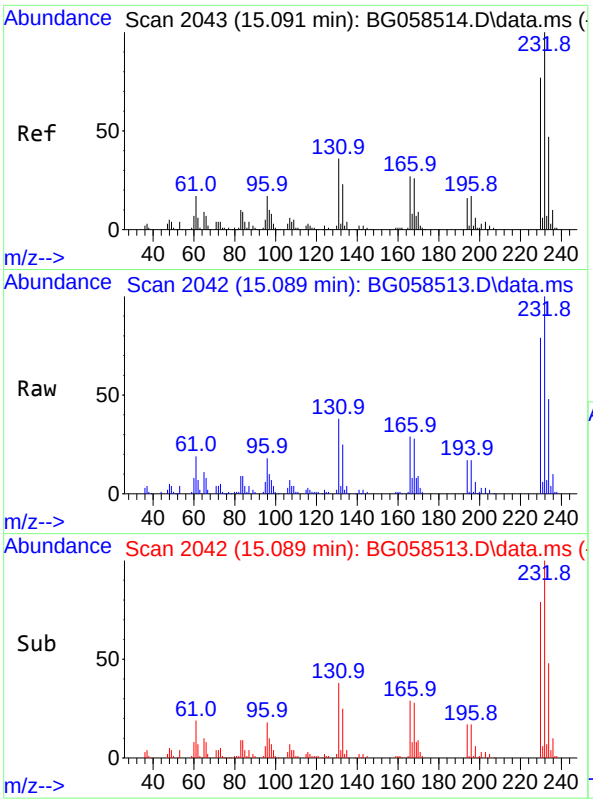


#58
Fluorene
Concen: 21.624 ng
RT: 15.512 min Scan# 2114
Delta R.T. 0.004 min
Lab File: BG058513.D
Acq: 28 Jul 2023 11:24

Tgt Ion:166 Resp: 244477

Ion	Ratio	Lower	Upper
166	100		
165	98.4	80.0	120.0
167	13.6	11.3	16.9

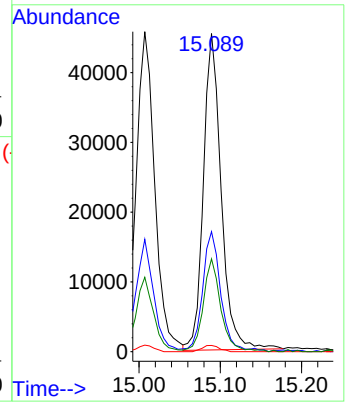




#59
2,3,4,6-Tetrachlorophenol
Concen: 20.337 ng
RT: 15.089 min Scan# 2
Delta R.T. -0.002 min
Lab File: BG058513.D
Acq: 28 Jul 2023 11:24

Tgt Ion:232 Resp: 6901

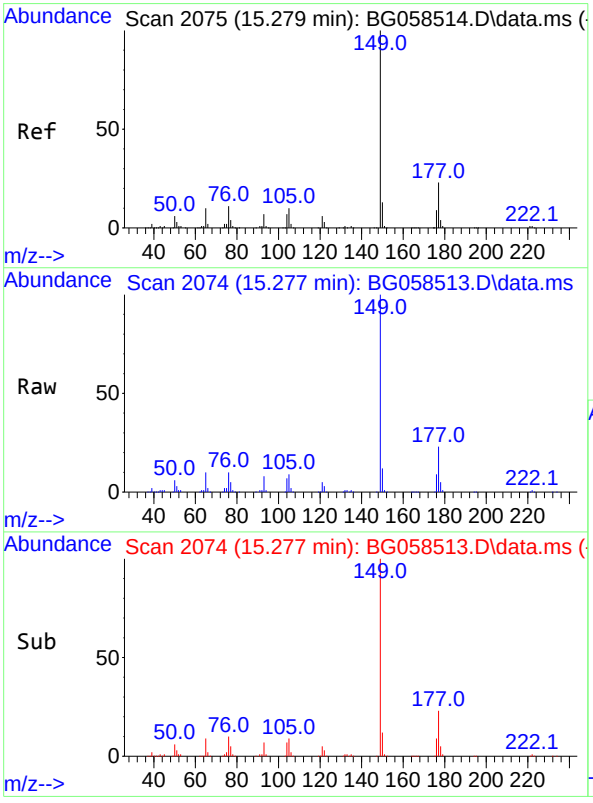
Ion	Ratio	Lower	Upper
232	100		
131	39.1	30.0	45.0
130	1.9	1.5	2.3
166	29.1	22.8	34.2



Instrument :
BNA_G
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

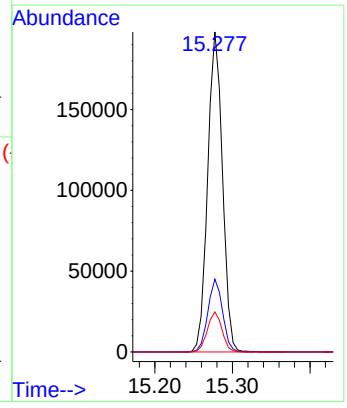
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

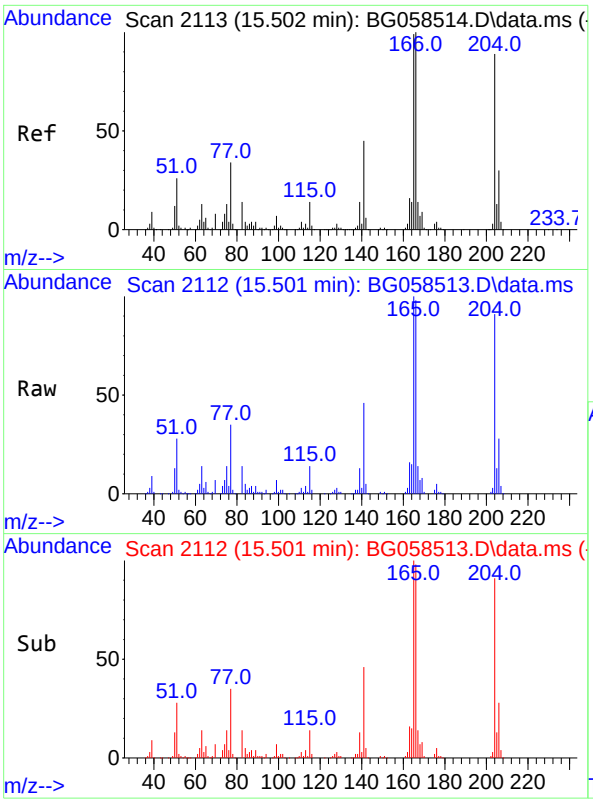


#60
Diethylphthalate
Concen: 21.358 ng
RT: 15.277 min Scan# 2074
Delta R.T. -0.002 min
Lab File: BG058513.D
Acq: 28 Jul 2023 11:24

Tgt Ion:149 Resp: 261282

Ion	Ratio	Lower	Upper
149	100		
177	22.7	18.2	27.4
150	12.5	10.2	15.4

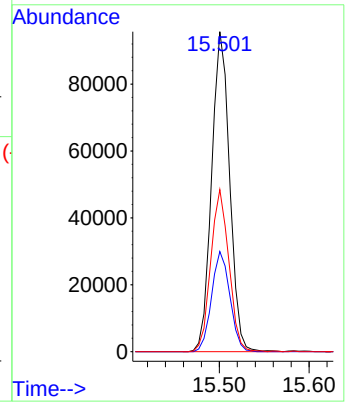




#61
4-Chlorophenyl-phenylether
Concen: 21.132 ng
RT: 15.501 min Scan# 21
Delta R.T. -0.002 min
Lab File: BG058513.D
Acq: 28 Jul 2023 11:24

Tgt Ion:204 Resp: 13320

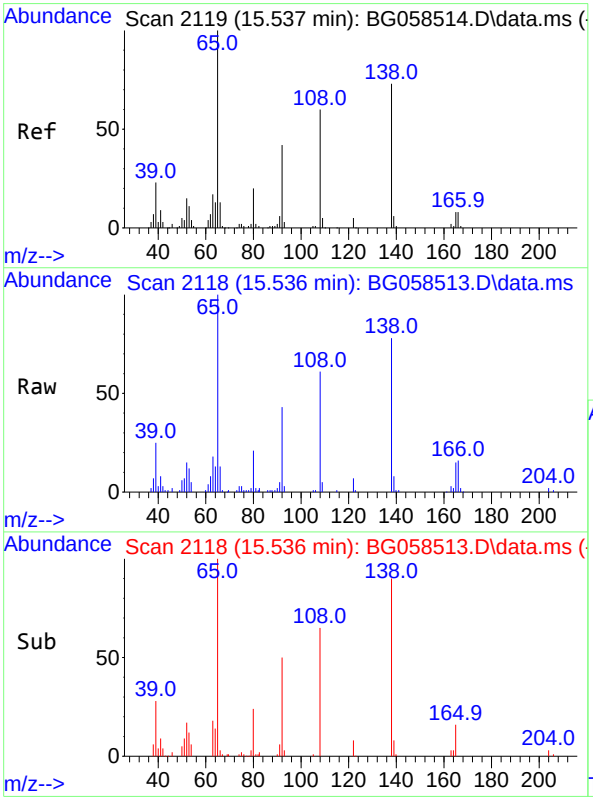
Ion	Ratio	Lower	Upper
204	100		
206	31.3	27.0	40.4
141	50.6	40.8	61.2



Instrument :
BNA_G
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

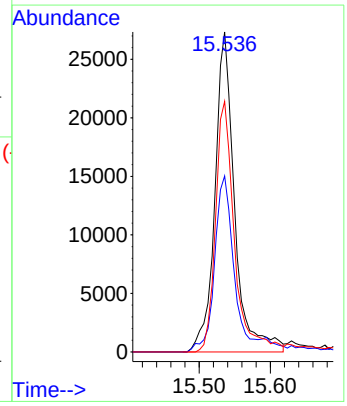
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

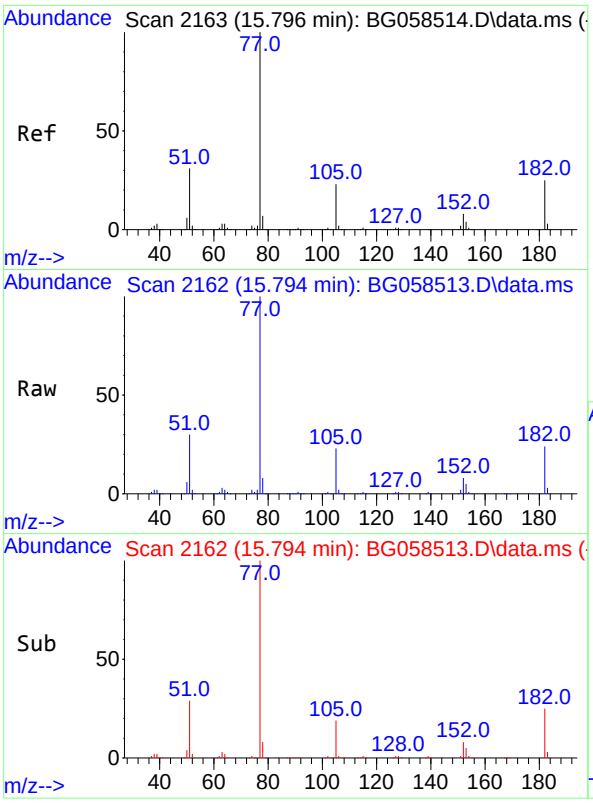


#62
4-Nitroaniline
Concen: 21.256 ng
RT: 15.536 min Scan# 2118
Delta R.T. -0.002 min
Lab File: BG058513.D
Acq: 28 Jul 2023 11:24

Tgt Ion:138 Resp: 52660

Ion	Ratio	Lower	Upper
138	100		
92	55.0	37.3	77.3
108	78.3	62.6	102.6

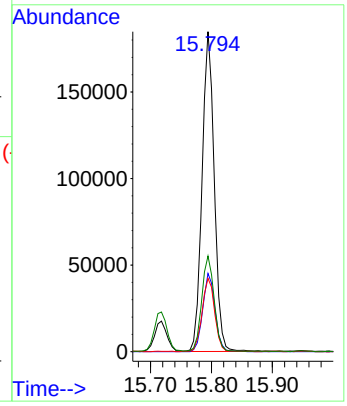




#63
Azobenzene
Concen: 21.293 ng
RT: 15.794 min Scan# 21
Delta R.T. -0.002 min
Lab File: BG058513.D
Acq: 28 Jul 2023 11:24

Tgt Ion: 77 Resp: 25656

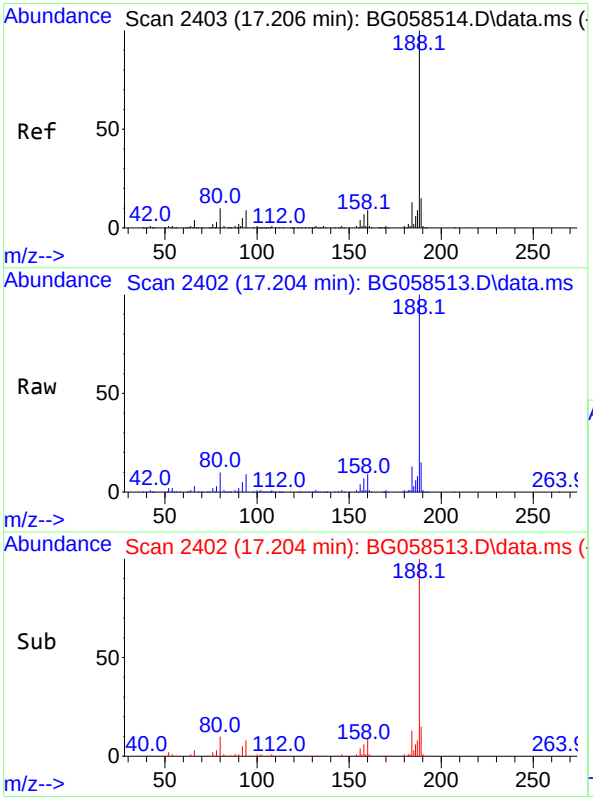
Ion	Ratio	Lower	Upper
77	100		
182	24.4	4.6	44.6
105	22.9	3.3	43.3
51	29.9	10.9	50.9



Instrument :
BNA_G
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

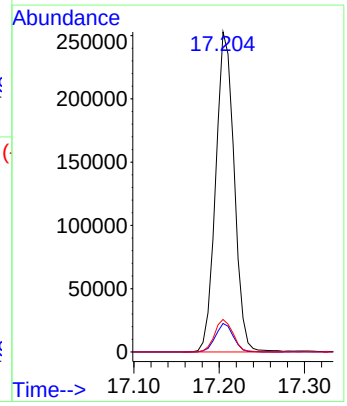
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

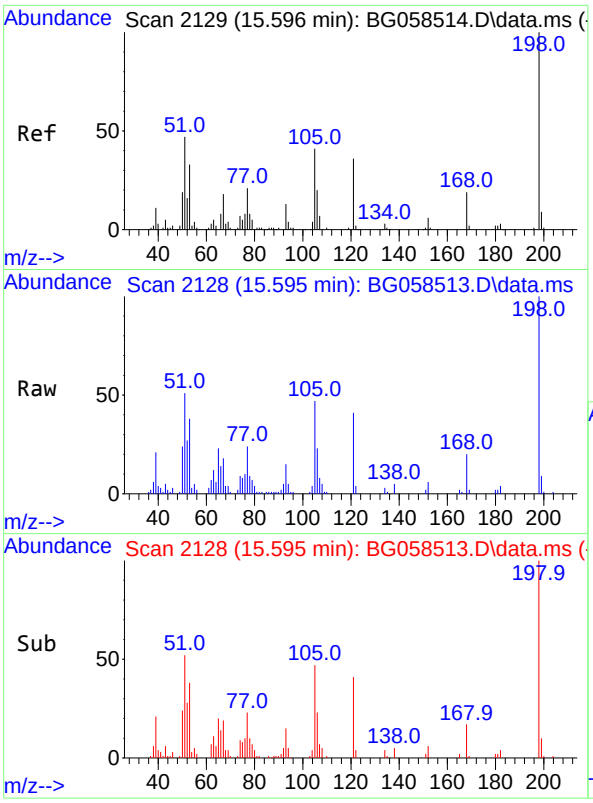


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.204 min Scan# 2402
Delta R.T. -0.002 min
Lab File: BG058513.D
Acq: 28 Jul 2023 11:24

Tgt Ion:188 Resp: 380302

Ion	Ratio	Lower	Upper
188	100		
94	8.9	7.0	10.6
80	10.2	8.1	12.1

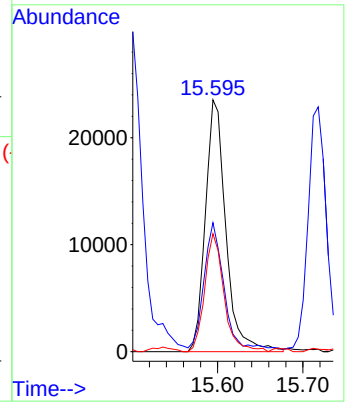




#65
4,6-Dinitro-2-methylphenol
Concen: 18.744 ng
RT: 15.595 min Scan# 21
Delta R.T. -0.001 min
Lab File: BG058513.D
Acq: 28 Jul 2023 11:24

Tgt Ion:198 Resp: 3930

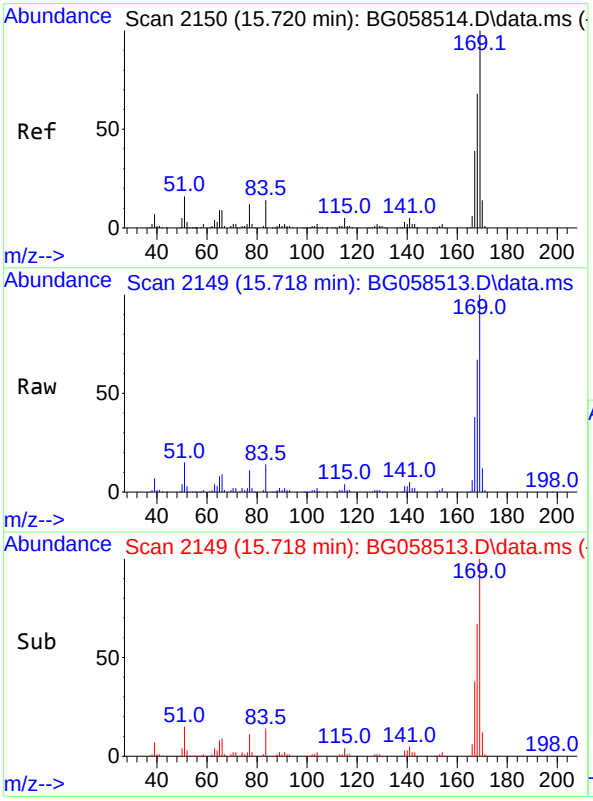
Ion	Ratio	Lower	Upper
198	100		
51	51.2	29.3	69.3
105	46.8	21.0	61.0



Instrument :
BNA_G
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

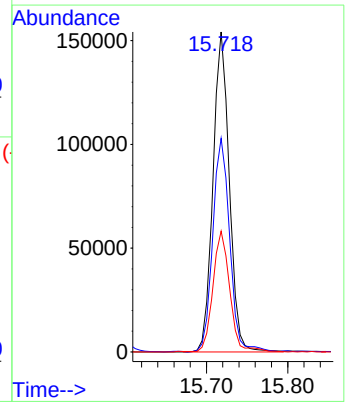
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

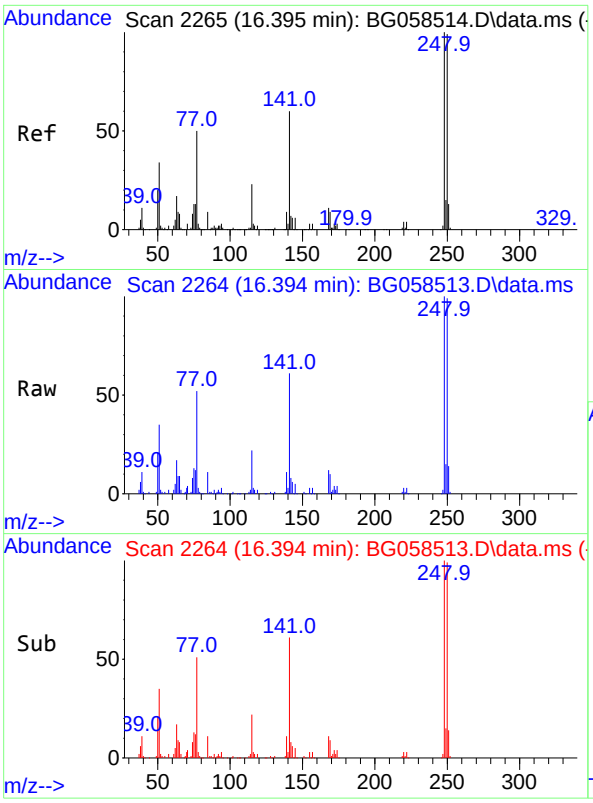


#66
n-Nitrosodiphenylamine
Concen: 21.663 ng
RT: 15.718 min Scan# 2149
Delta R.T. -0.002 min
Lab File: BG058513.D
Acq: 28 Jul 2023 11:24

Tgt Ion:169 Resp: 214429

Ion	Ratio	Lower	Upper
169	100		
168	66.8	54.6	82.0
167	37.8	31.3	46.9

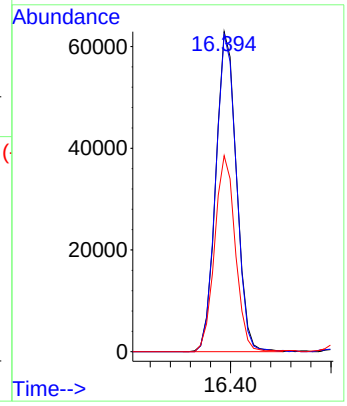




#67
4-Bromophenyl-phenylether
Concen: 20.799 ng
RT: 16.394 min Scan# 2
Delta R.T. -0.002 min
Lab File: BG058513.D
Acq: 28 Jul 2023 11:24

Tgt Ion:248 Resp: 8971

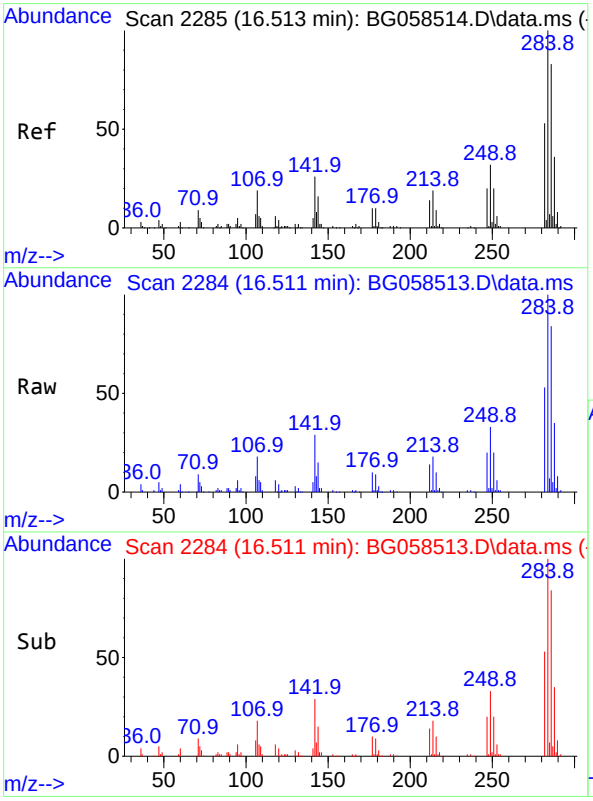
Ion	Ratio	Lower	Upper
248	100		
250	99.1	79.5	119.3
141	61.3	48.2	72.2



Instrument :
BNA_G
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

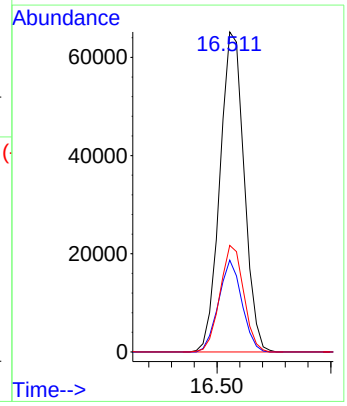
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

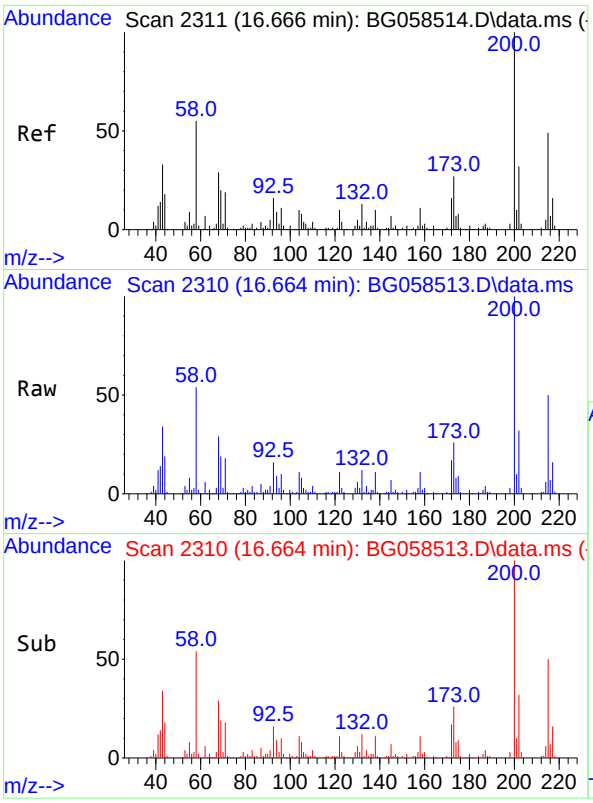


#68
Hexachlorobenzene
Concen: 21.047 ng
RT: 16.511 min Scan# 2284
Delta R.T. -0.002 min
Lab File: BG058513.D
Acq: 28 Jul 2023 11:24

Tgt Ion:284 Resp: 96202

Ion	Ratio	Lower	Upper
284	100		
142	28.7	21.0	31.4
249	33.3	25.5	38.3

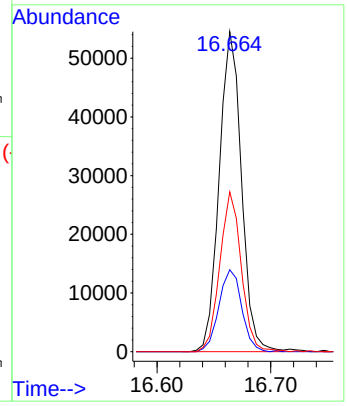




#69
Atrazine
Concen: 22.163 ng
RT: 16.664 min Scan# 2
Delta R.T. -0.002 min
Lab File: BG058513.D
Acq: 28 Jul 2023 11:24

Tgt Ion:200 Resp: 7405

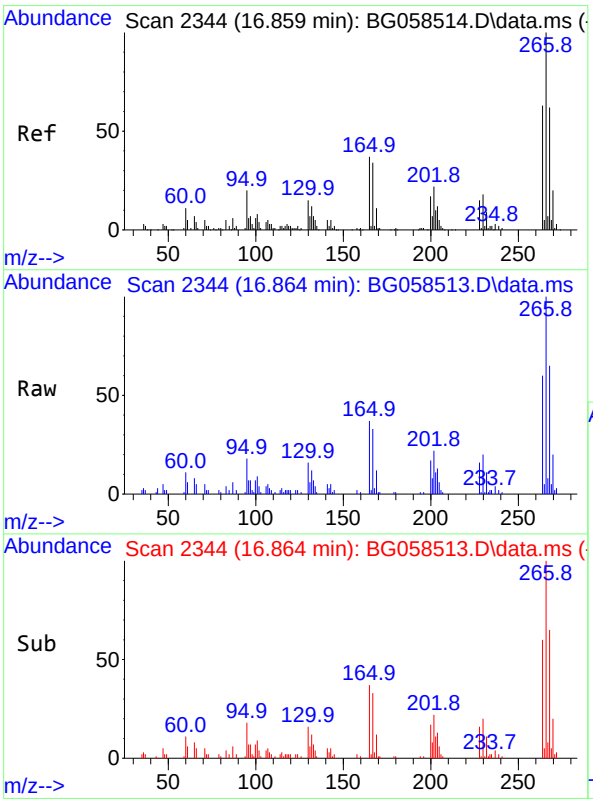
Ion	Ratio	Lower	Upper
200	100		
173	25.6	6.5	46.5
215	50.0	28.9	68.9



Instrument :
BNA_G
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

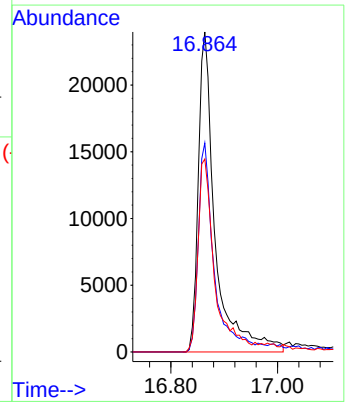
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

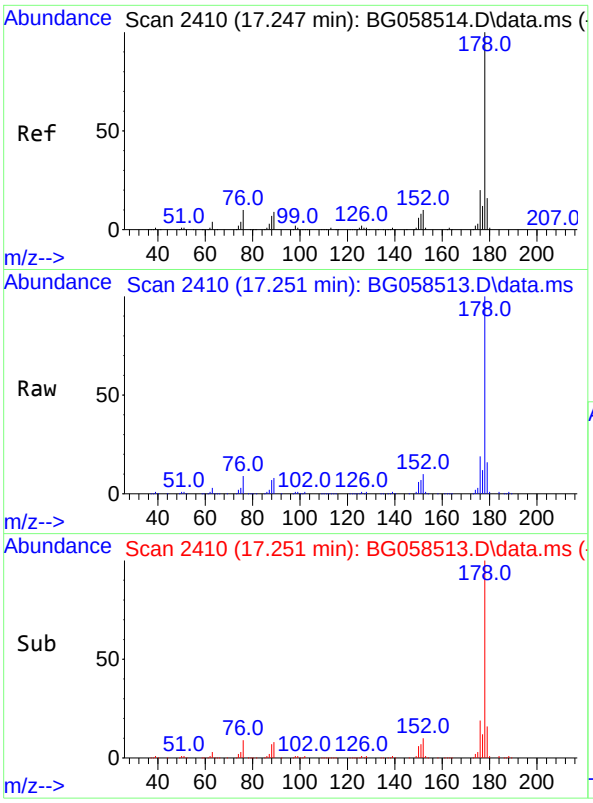


#70
Pentachlorophenol
Concen: 19.179 ng
RT: 16.864 min Scan# 2344
Delta R.T. 0.005 min
Lab File: BG058513.D
Acq: 28 Jul 2023 11:24

Tgt Ion:266 Resp: 52825

Ion	Ratio	Lower	Upper
266	100		
268	65.3	49.9	74.9
264	60.3	50.2	75.4

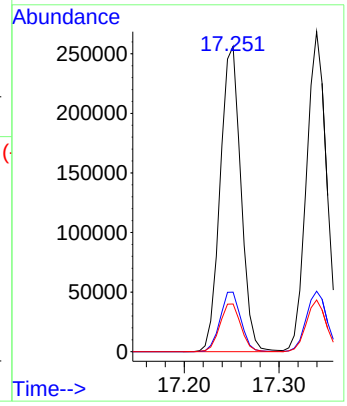




#71
Phenanthrene
Concen: 21.580 ng
RT: 17.251 min Scan# 24
Delta R.T. 0.004 min
Lab File: BG058513.D
Acq: 28 Jul 2023 11:24

Tgt Ion:178 Resp: 38921

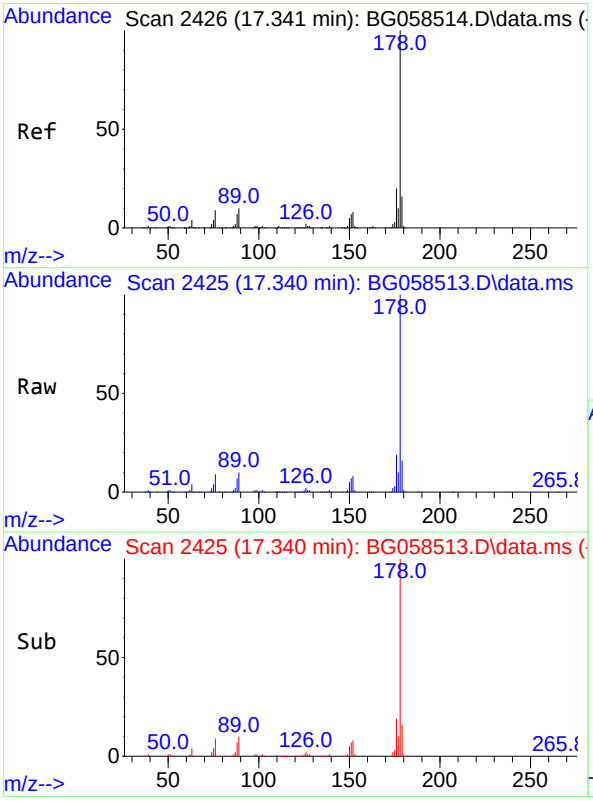
Ion	Ratio	Lower	Upper
178	100		
176	19.5	16.3	24.5
179	15.6	13.1	19.7



Instrument :
BNA_G
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

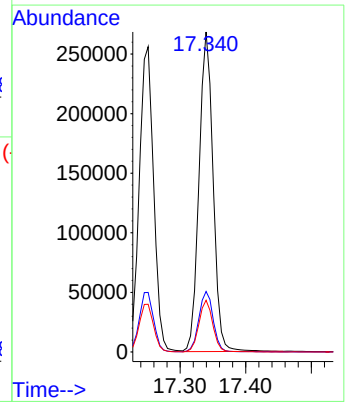
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

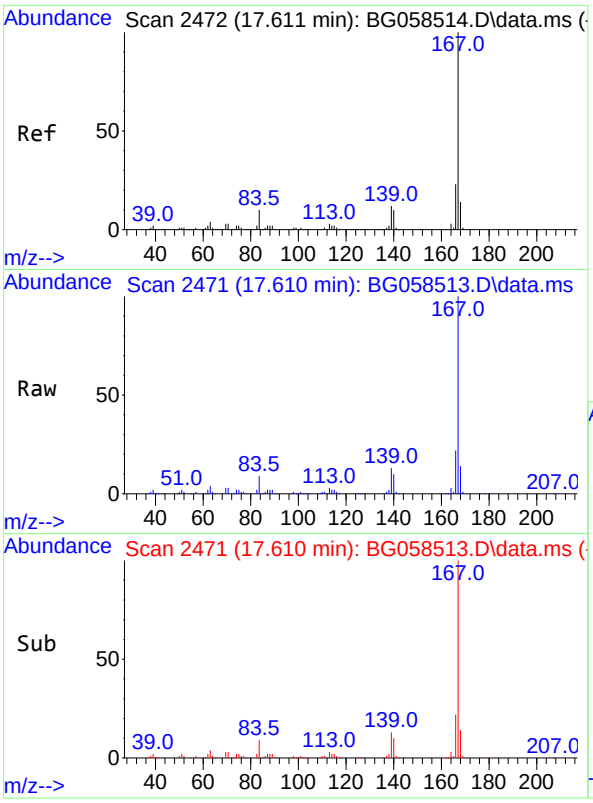


#72
Anthracene
Concen: 21.593 ng
RT: 17.340 min Scan# 2425
Delta R.T. -0.002 min
Lab File: BG058513.D
Acq: 28 Jul 2023 11:24

Tgt Ion:178 Resp: 399603

Ion	Ratio	Lower	Upper
178	100		
176	18.9	16.0	24.0
179	16.1	12.9	19.3

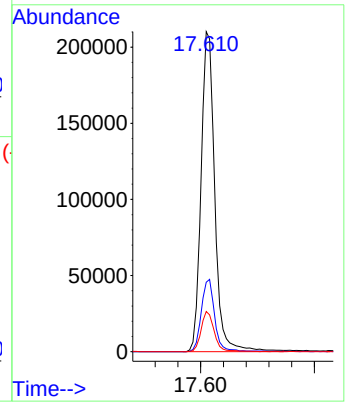




#73
Carbazole
Concen: 21.617 ng
RT: 17.610 min Scan# 24
Delta R.T. -0.002 min
Lab File: BG058513.D
Acq: 28 Jul 2023 11:24

Tgt Ion:167 Resp: 35276

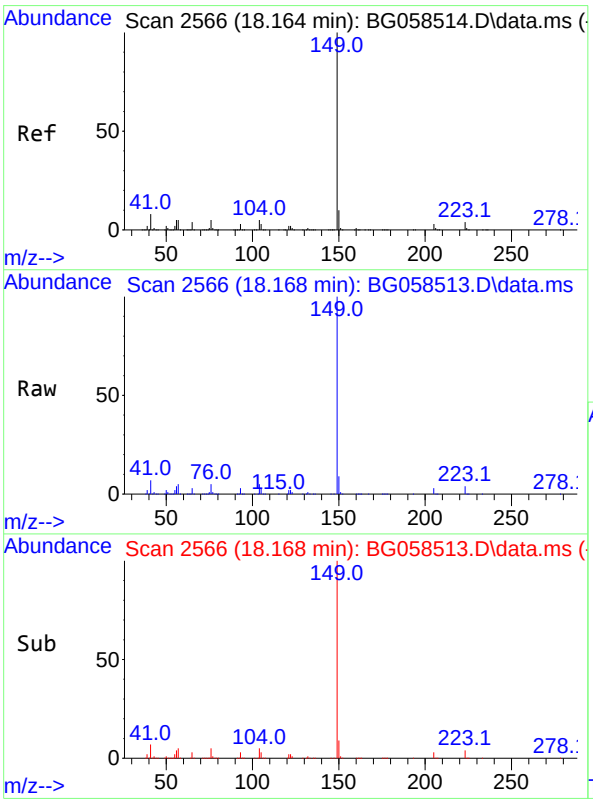
Ion	Ratio	Lower	Upper
167	100		
166	21.7	18.4	27.6
139	12.6	10.0	15.0



Instrument :
BNA_G
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

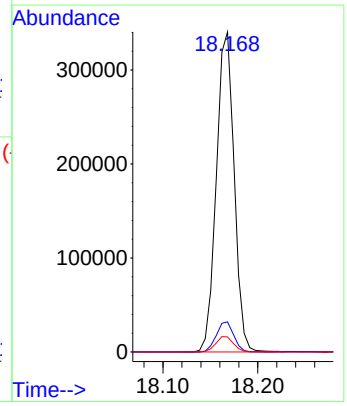
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

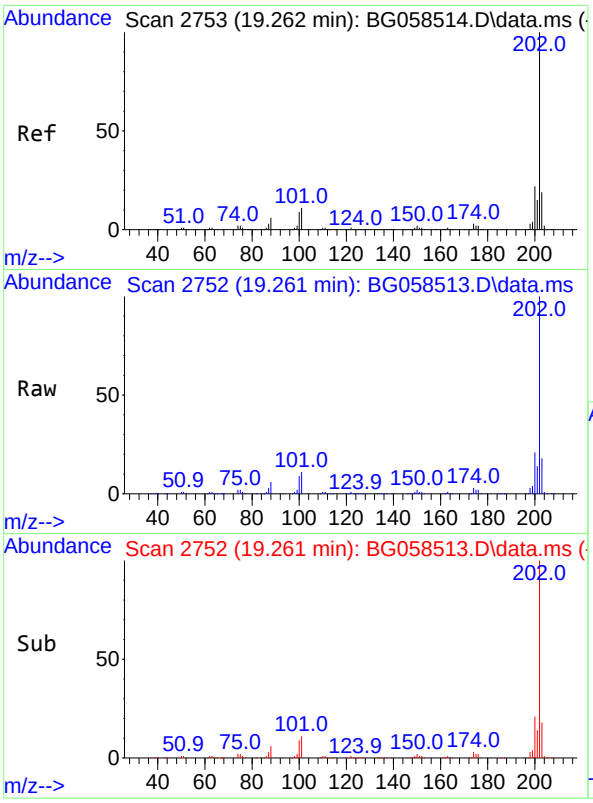


#74
Di-n-butylphthalate
Concen: 21.722 ng
RT: 18.168 min Scan# 2566
Delta R.T. 0.004 min
Lab File: BG058513.D
Acq: 28 Jul 2023 11:24

Tgt Ion:149 Resp: 444016

Ion	Ratio	Lower	Upper
149	100		
150	9.4	7.8	11.6
104	4.7	4.0	6.0

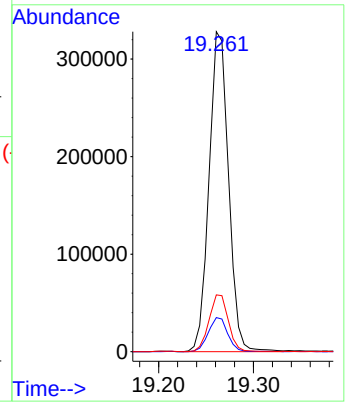




#75
Fluoranthene
Concen: 21.589 ng
RT: 19.261 min Scan# 2
Delta R.T. -0.002 min
Lab File: BG058513.D
Acq: 28 Jul 2023 11:24

Tgt Ion:202 Resp: 46771

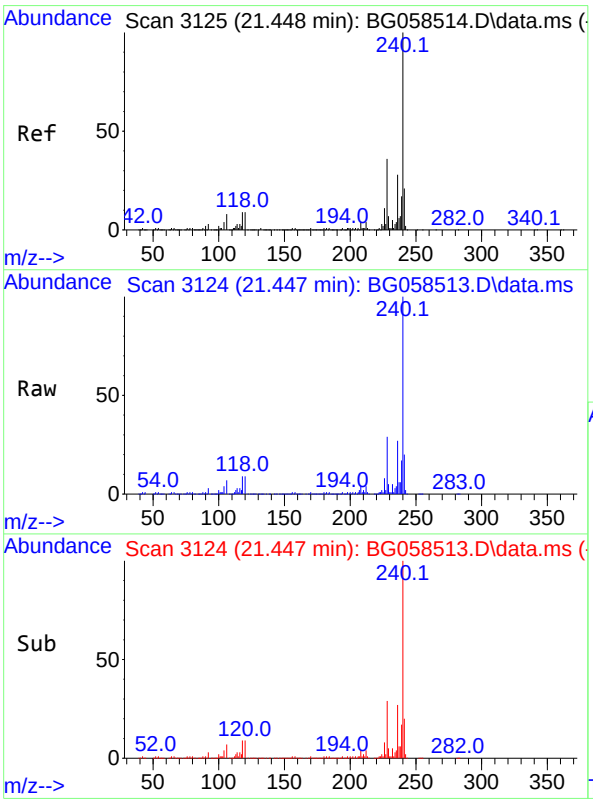
Ion	Ratio	Lower	Upper
202	100		
101	10.7	0.0	31.4
203	17.8	0.0	39.0



Instrument :
BNA_G
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

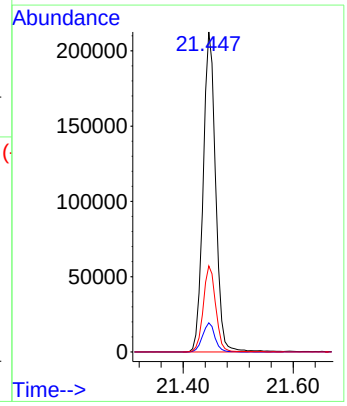
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

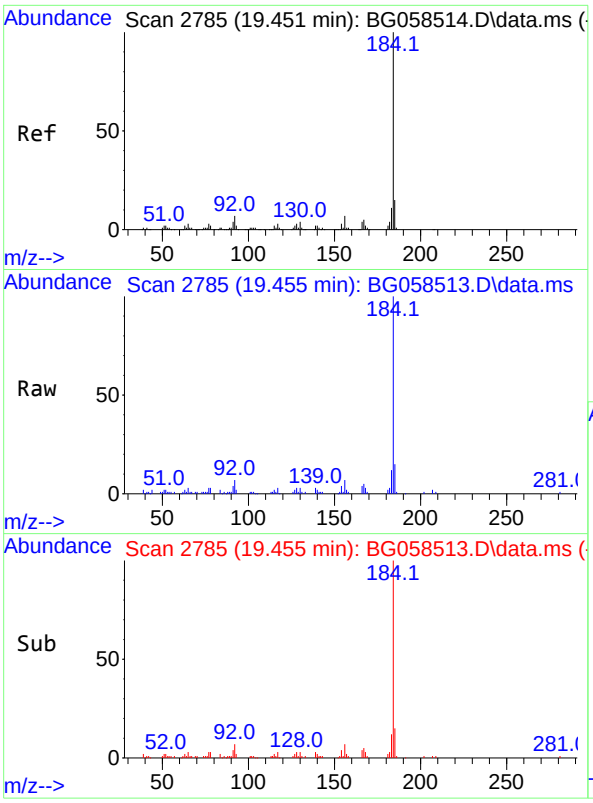


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.447 min Scan# 3124
Delta R.T. -0.002 min
Lab File: BG058513.D
Acq: 28 Jul 2023 11:24

Tgt Ion:240 Resp: 334200

Ion	Ratio	Lower	Upper
240	100		
120	9.1	7.4	11.0
236	26.9	22.2	33.4

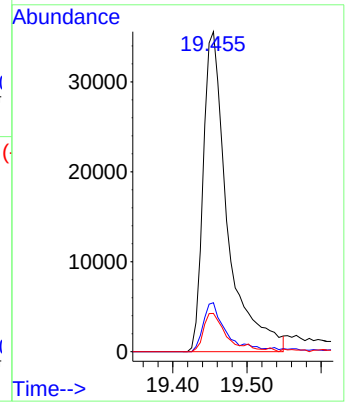




#77
Benzidine
Concen: 15.990 ng
RT: 19.455 min Scan# 2
Delta R.T. 0.004 min
Lab File: BG058513.D
Acq: 28 Jul 2023 11:24

Tgt Ion:184 Resp: 8103

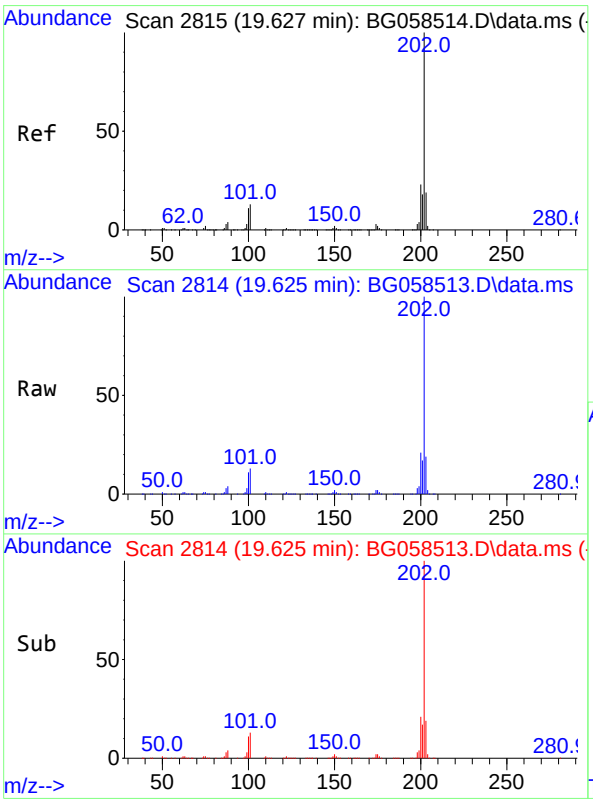
Ion	Ratio	Lower	Upper
184	100		
185	15.3	11.9	17.9
183	11.9	8.7	13.1



Instrument :
BNA_G
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

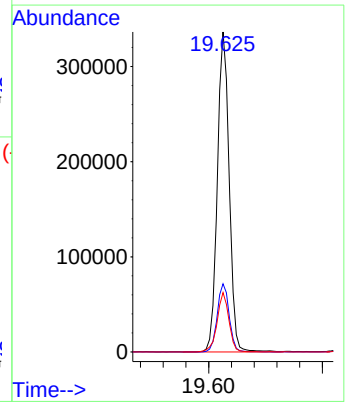
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

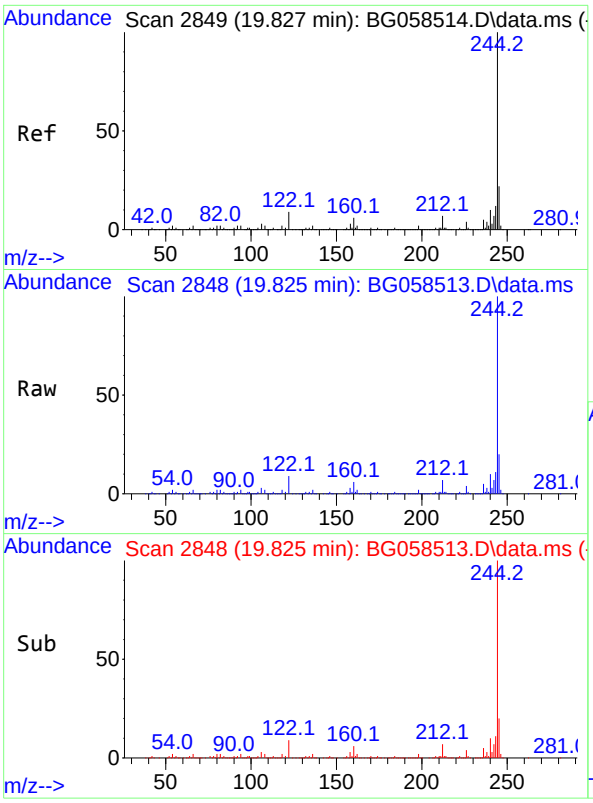


#78
Pyrene
Concen: 21.261 ng
RT: 19.625 min Scan# 2814
Delta R.T. -0.002 min
Lab File: BG058513.D
Acq: 28 Jul 2023 11:24

Tgt Ion:202 Resp: 483558

Ion	Ratio	Lower	Upper
202	100		
200	21.3	18.2	27.2
203	18.5	15.1	22.7

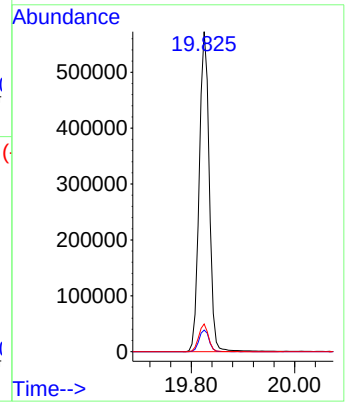




#79
Terphenyl-d14
Concen: 43.375 ng
RT: 19.825 min Scan# 2
Delta R.T. -0.002 min
Lab File: BG058513.D
Acq: 28 Jul 2023 11:24

Tgt Ion:244 Resp: 77083

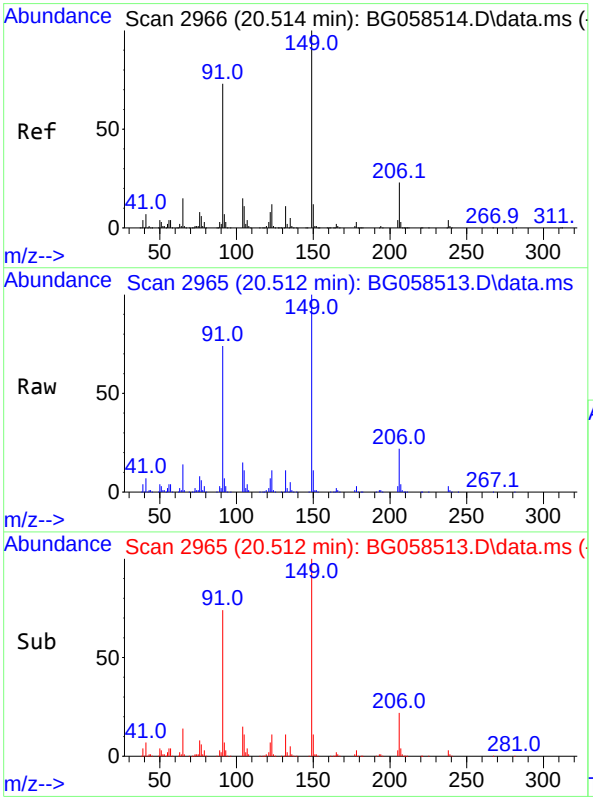
Ion	Ratio	Lower	Upper
244	100		
212	6.7	5.9	8.9
122	8.6	6.8	10.2



Instrument :
BNA_G
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

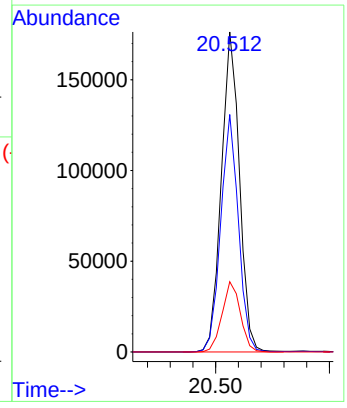
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

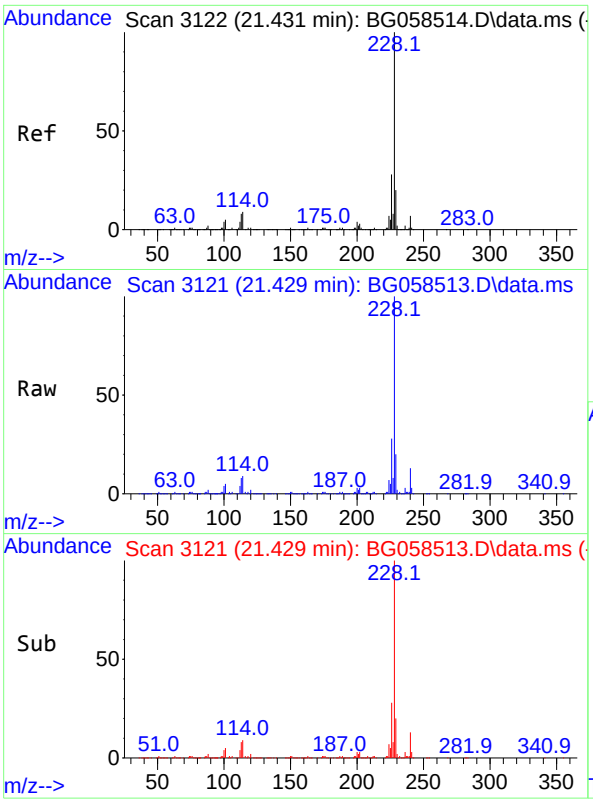


#80
Butylbenzylphthalate
Concen: 20.914 ng
RT: 20.512 min Scan# 2965
Delta R.T. -0.002 min
Lab File: BG058513.D
Acq: 28 Jul 2023 11:24

Tgt Ion:149 Resp: 195383

Ion	Ratio	Lower	Upper
149	100		
91	74.2	58.4	87.6
206	21.9	18.3	27.5

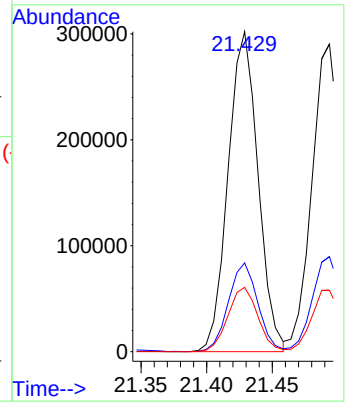




#81
Benzo(a)anthracene
Concen: 20.863 ng
RT: 21.429 min Scan# 3
Delta R.T. -0.002 min
Lab File: BG058513.D
Acq: 28 Jul 2023 11:24

Tgt Ion:228 Resp: 47982

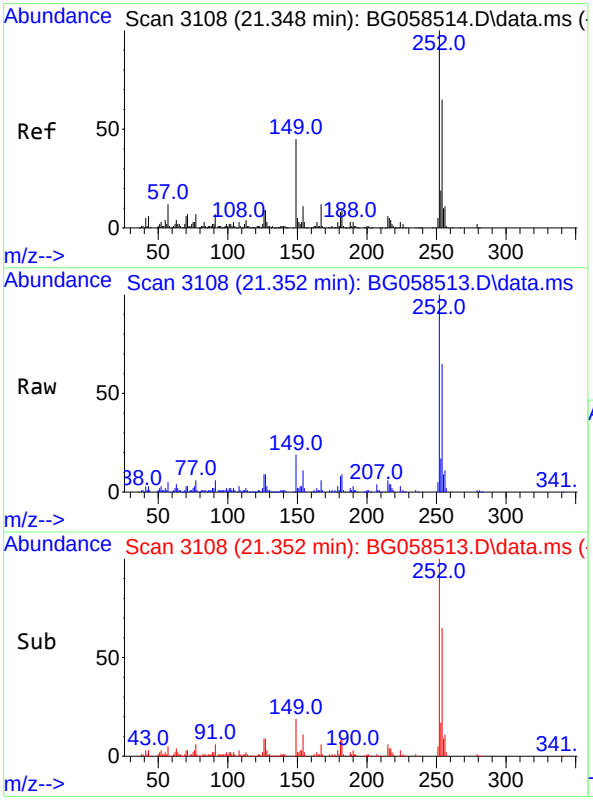
Ion	Ratio	Lower	Upper
228	100		
226	27.8	22.6	33.8
229	20.1	16.3	24.5



Instrument :
BNA_G
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

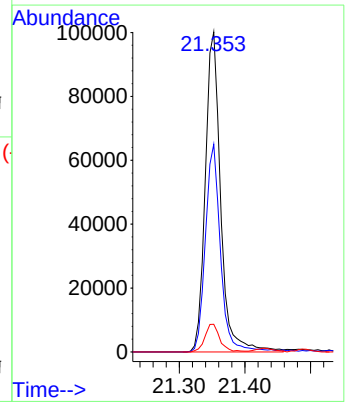
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

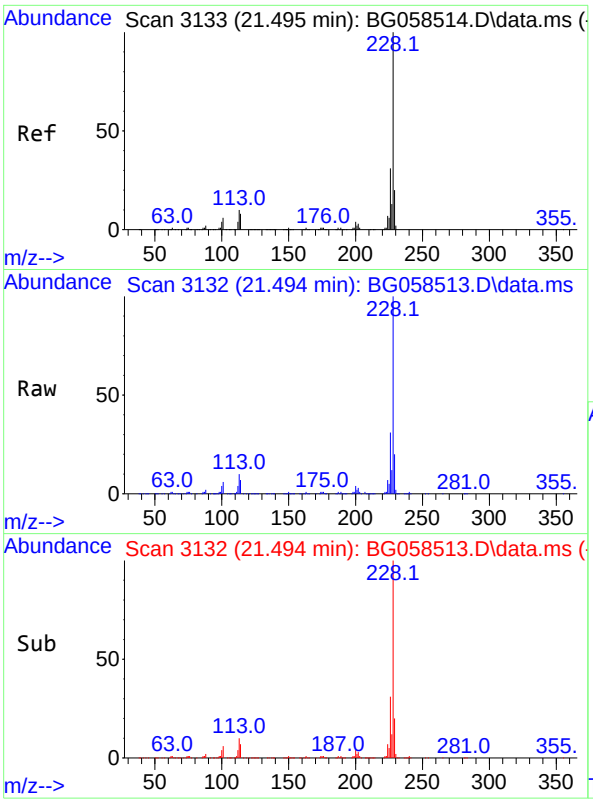


#82
3,3'-Dichlorobenzidine
Concen: 21.052 ng
RT: 21.352 min Scan# 3108
Delta R.T. 0.004 min
Lab File: BG058513.D
Acq: 28 Jul 2023 11:24

Tgt Ion:252 Resp: 163707

Ion	Ratio	Lower	Upper
252	100		
254	64.9	52.2	78.4
126	8.6	7.2	10.8

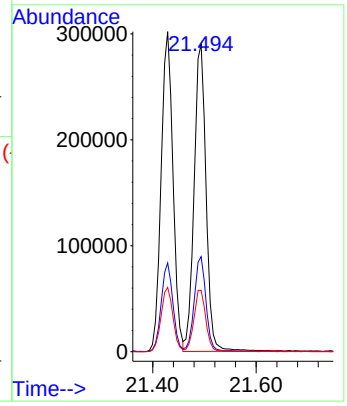




#83
Chrysene
Concen: 21.114 ng
RT: 21.494 min Scan# 3
Delta R.T. -0.002 min
Lab File: BG058513.D
Acq: 28 Jul 2023 11:24

Tgt Ion:228 Resp: 46558

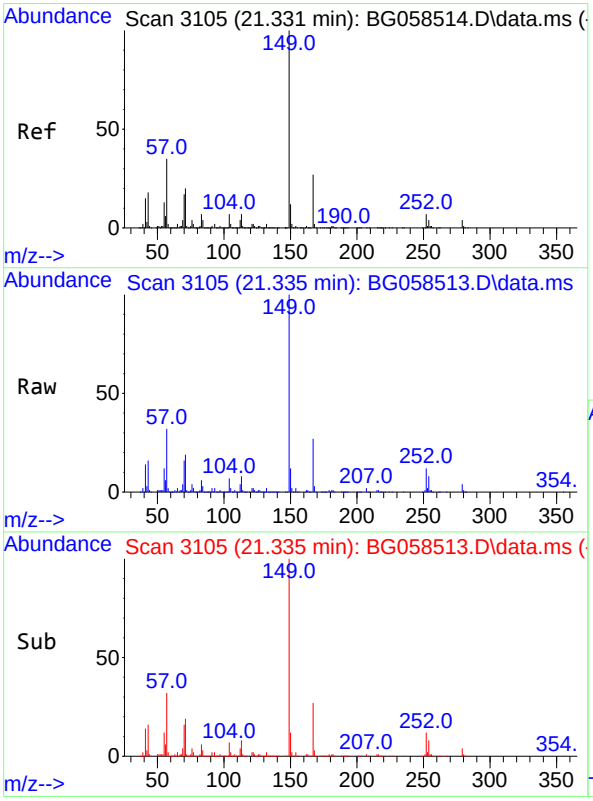
Ion	Ratio	Lower	Upper
228	100		
226	30.9	25.0	37.6
229	20.0	16.3	24.5



Instrument :
BNA_G
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

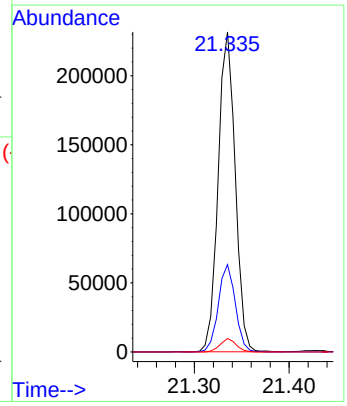
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

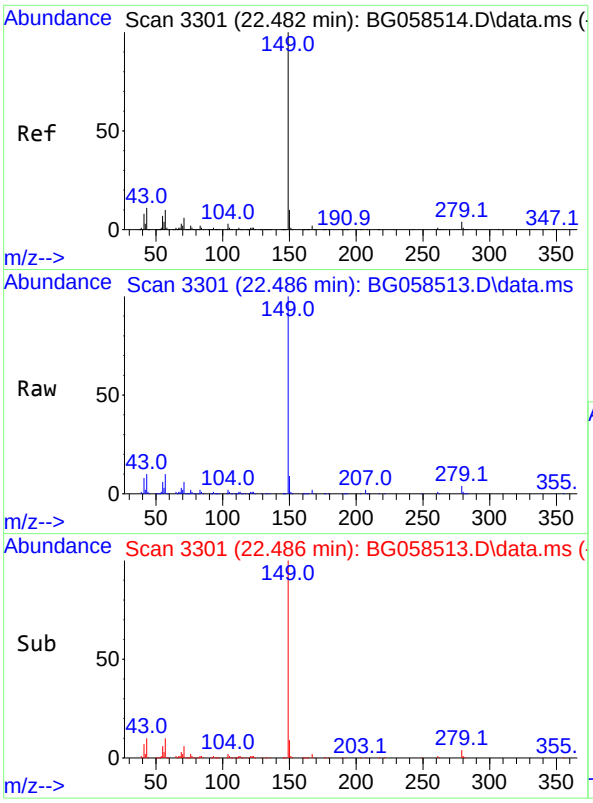


#84
Bis(2-ethylhexyl)phthalate
Concen: 21.198 ng
RT: 21.335 min Scan# 3105
Delta R.T. 0.004 min
Lab File: BG058513.D
Acq: 28 Jul 2023 11:24

Tgt Ion:149 Resp: 289405

Ion	Ratio	Lower	Upper
149	100		
167	27.3	21.8	32.8
279	4.2	2.9	4.3

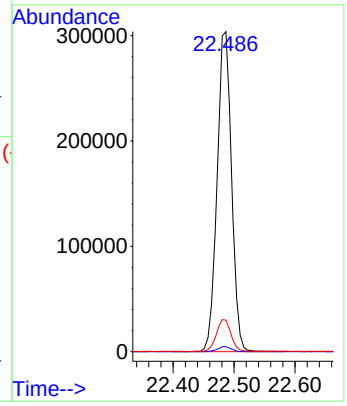




#85
Di-n-octyl phthalate
Concen: 20.901 ng
RT: 22.486 min Scan# 3
Delta R.T. 0.004 min
Lab File: BG058513.D
Acq: 28 Jul 2023 11:24

Tgt Ion:149 Resp: 50167

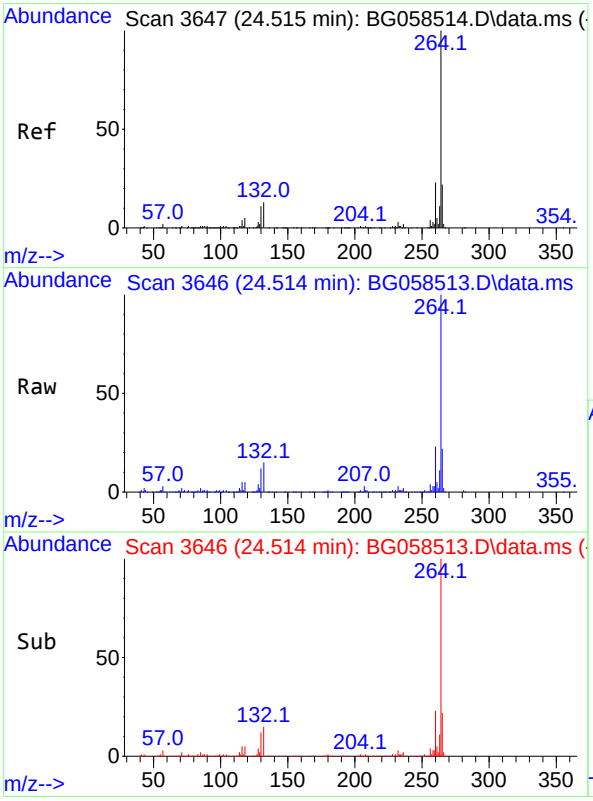
Ion	Ratio	Lower	Upper
149	100		
167	1.5	1.3	1.9
43	10.1	8.2	12.2



Instrument :
BNA_G
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

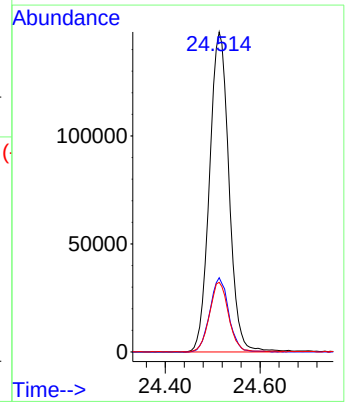
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

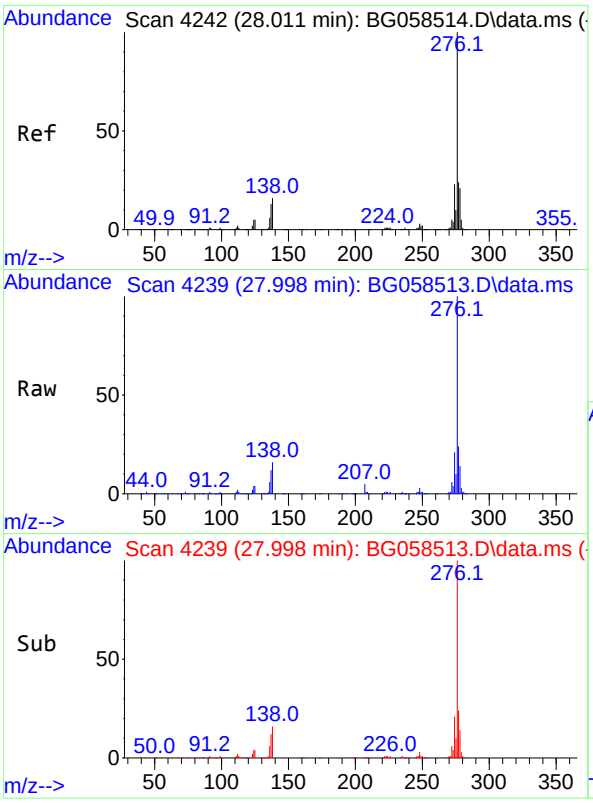


#86
Perylene-d12
Concen: 20.000 ng
RT: 24.514 min Scan# 3646
Delta R.T. -0.002 min
Lab File: BG058513.D
Acq: 28 Jul 2023 11:24

Tgt Ion:264 Resp: 421607

Ion	Ratio	Lower	Upper
264	100		
260	23.2	18.4	27.6
265	21.8	17.9	26.9

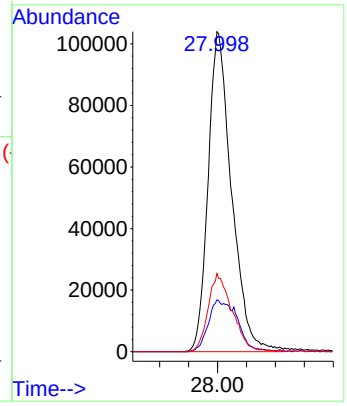




#87
Indeno(1,2,3-cd)pyrene
Concen: 20.840 ng
RT: 27.998 min Scan# 4
Delta R.T. -0.013 min
Lab File: BG058513.D
Acq: 28 Jul 2023 11:24

Tgt Ion:276 Resp: 58452

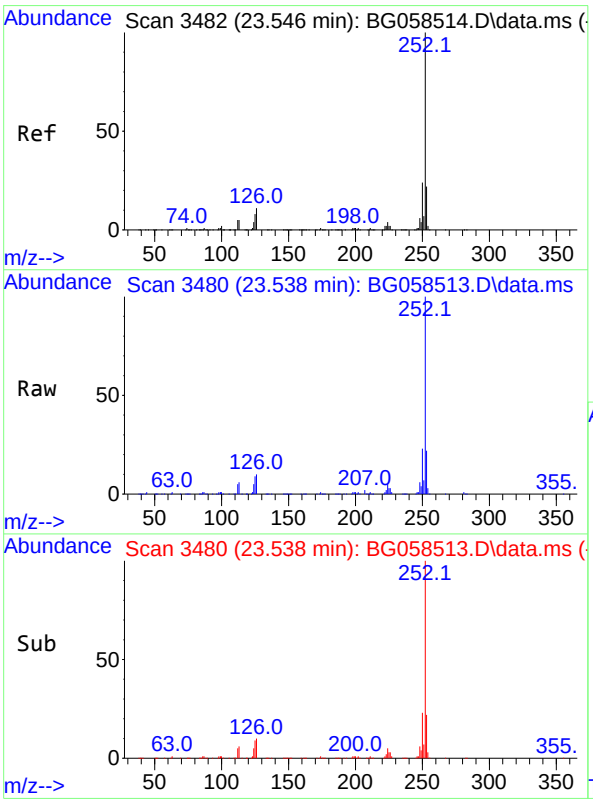
Ion	Ratio	Lower	Upper
276	100		
138	19.7	16.0	24.0
277	24.9	20.4	30.6



Instrument :
BNA_G
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

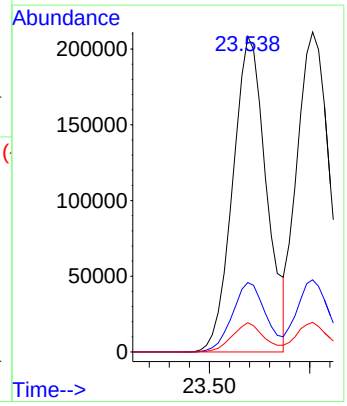
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

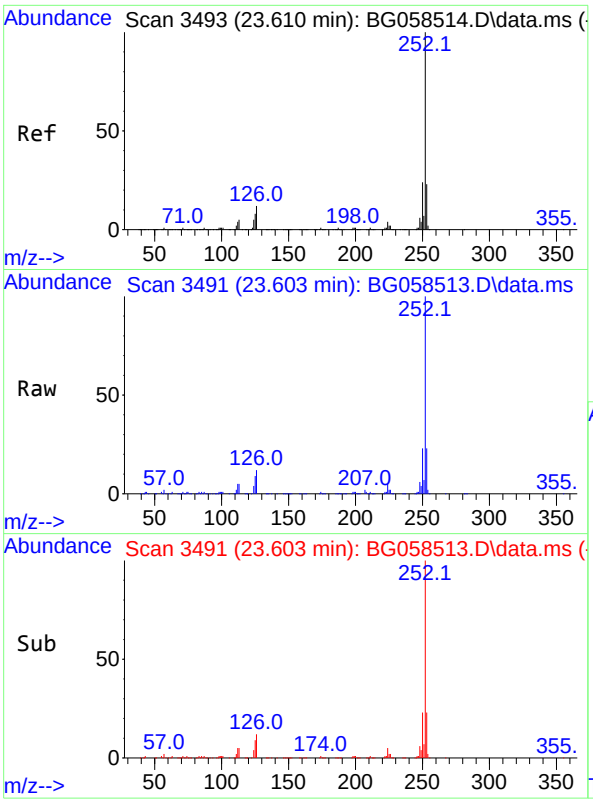


#88
Benzo(b)fluoranthene
Concen: 21.189 ng
RT: 23.538 min Scan# 3480
Delta R.T. -0.008 min
Lab File: BG058513.D
Acq: 28 Jul 2023 11:24

Tgt Ion:252 Resp: 484518

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.8	26.8
125	9.3	6.6	9.8

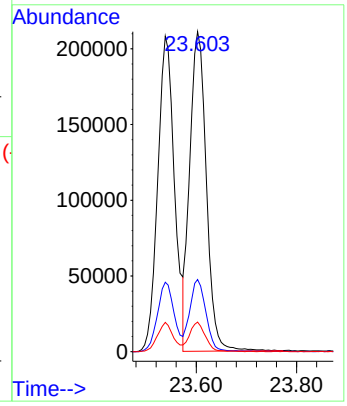




#89
Benzo(k)fluoranthene
Concen: 21.067 ng
RT: 23.603 min Scan# 34
Delta R.T. -0.008 min
Lab File: BG058513.D
Acq: 28 Jul 2023 11:24

Tgt Ion:252 Resp: 48395

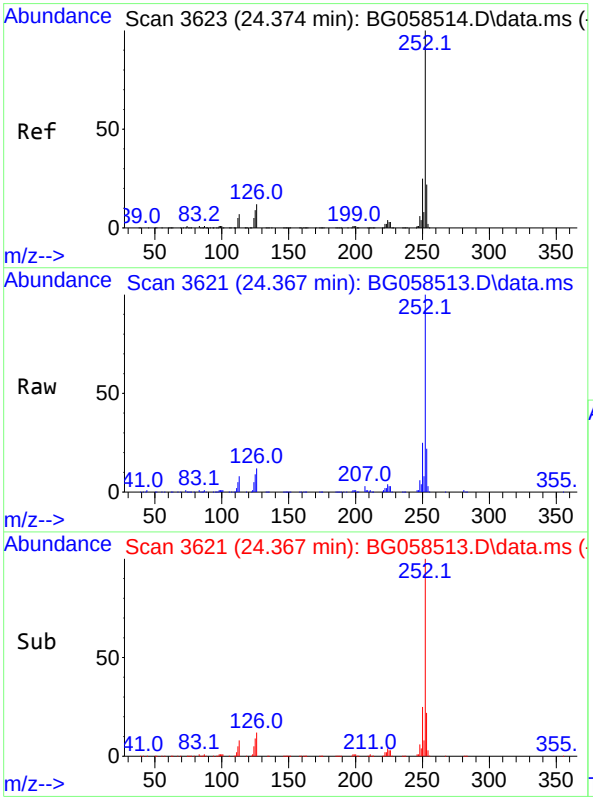
Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.9	26.9
125	9.3	6.6	10.0



Instrument :
BNA_G
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

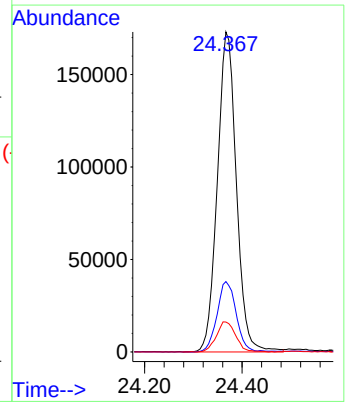
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

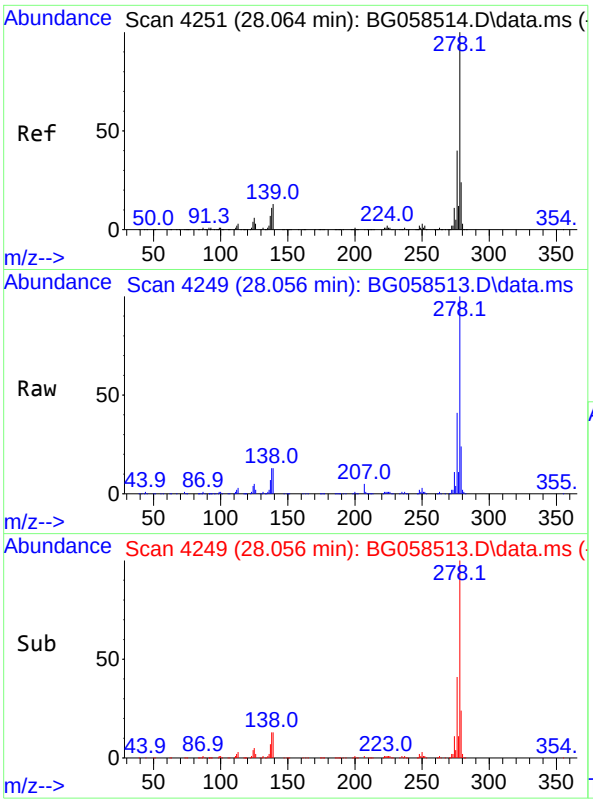


#90
Benzo(a)pyrene
Concen: 20.900 ng
RT: 24.367 min Scan# 3621
Delta R.T. -0.008 min
Lab File: BG058513.D
Acq: 28 Jul 2023 11:24

Tgt Ion:252 Resp: 469351

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.5	26.3
125	9.4	7.4	11.2

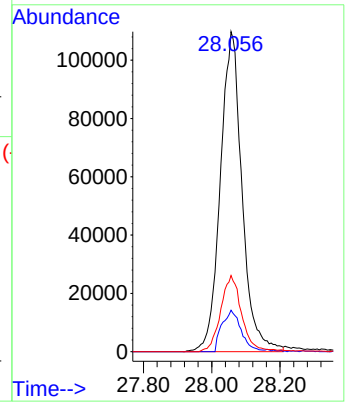




#91
Dibenzo(a,h)anthracene
Concen: 20.866 ng
RT: 28.056 min Scan# 4
Delta R.T. -0.008 min
Lab File: BG058513.D
Acq: 28 Jul 2023 11:24

Tgt Ion:278 Resp: 48391

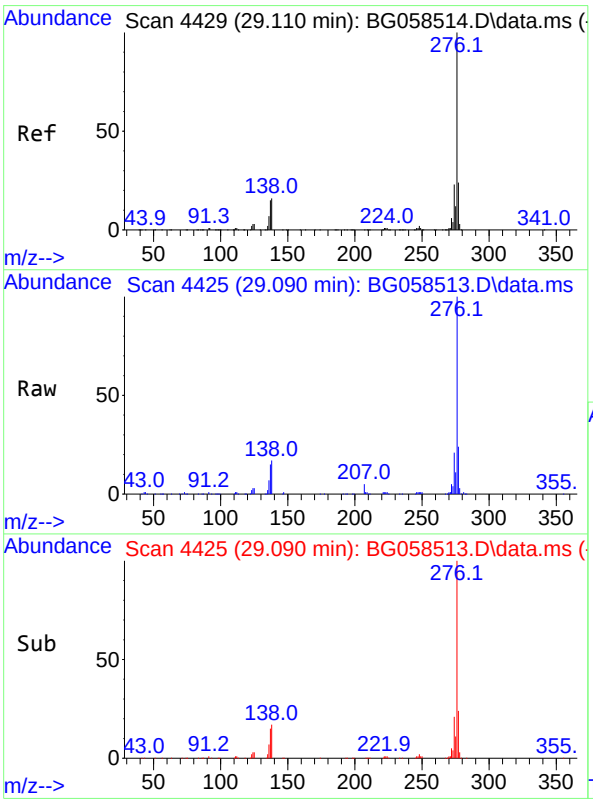
Ion	Ratio	Lower	Upper
278	100		
139	13.0	10.4	15.6
279	23.8	19.0	28.6



Instrument :
BNA_G
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

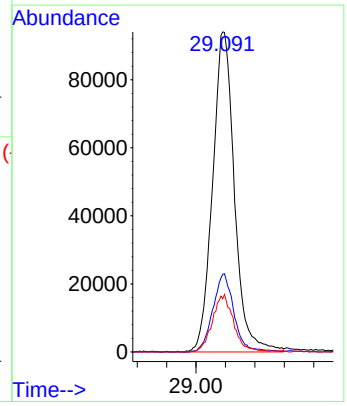
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023



#92
Benzo(g,h,i)perylene
Concen: 20.872 ng
RT: 29.090 min Scan# 4425
Delta R.T. -0.019 min
Lab File: BG058513.D
Acq: 28 Jul 2023 11:24

Tgt Ion:276 Resp: 485395

Ion	Ratio	Lower	Upper
276	100		
277	24.3	18.9	28.3
138	16.7	13.0	19.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG072823\
Data File : BG058514.D
Acq On : 28 Jul 2023 12:05
Operator : MA/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
SSTDICCC040

Quant Time: Jul 28 16:58:26 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 28 16:53:40 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.811	152	57417	20.000	ng	0.00
21) Naphthalene-d8	10.614	136	230279	20.000	ng	0.00
39) Acenaphthene-d10	14.462	164	159879	20.000	ng	0.00
64) Phenanthrene-d10	17.206	188	383110	20.000	ng	0.00
76) Chrysene-d12	21.448	240	331305	20.000	ng	0.00
86) Perylene-d12	24.515	264	421901	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.385	112	302703	80.580	ng	0.00
7) Phenol-d6	6.983	99	426092	81.515	ng	0.00
23) Nitrobenzene-d5	8.980	82	383415	81.794	ng	0.00
42) 2,4,6-Tribromophenol	15.955	330	213337	81.410	ng	0.00
45) 2-Fluorobiphenyl	13.081	172	839533	78.692	ng	0.00
79) Terphenyl-d14	19.827	244	1393408	79.092	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.275	88	72378	39.762	ng	100
3) Pyridine	3.669	79	201559	40.614	ng	100
4) n-Nitrosodimethylamine	3.593	42	84605	40.235	ng	100
6) Aniline	7.141	93	266175	41.359	ng	100
8) 2-Chlorophenol	7.376	128	148141	40.198	ng	100
9) Benzaldehyde	6.953	77	108905	38.349	ng	100
10) Phenol	7.012	94	208767	40.886	ng	100
11) bis(2-Chloroethyl)ether	7.235	93	159315	39.577	ng	100
12) 1,3-Dichlorobenzene	7.705	146	156975	39.890	ng	100
13) 1,4-Dichlorobenzene	7.852	146	157968	39.979	ng	100
14) 1,2-Dichlorobenzene	8.170	146	150994	39.970	ng	100
15) Benzyl Alcohol	8.058	79	141688	42.742	ng	100
16) 2,2'-oxybis(1-Chloropr...	8.346	45	260846	39.891	ng	100
17) 2-Methylphenol	8.258	107	150806	40.393	ng	100
18) Hexachloroethane	8.892	117	57427	39.986	ng	100
19) n-Nitroso-di-n-propyla...	8.622	70	135570	40.153	ng	100
20) 3+4-Methylphenols	8.593	107	210168	41.617	ng	100
22) Acetophenone	8.640	105	252194	40.901	ng	100
24) Nitrobenzene	9.022	77	194695	40.855	ng	100
25) Isophorone	9.539	82	391748	40.447	ng	100
26) 2-Nitrophenol	9.732	139	87105	41.990	ng	100
27) 2,4-Dimethylphenol	9.791	122	142039	41.279	ng	100
28) bis(2-Chloroethoxy)met...	10.026	93	218767	41.505	ng	100
29) 2,4-Dichlorophenol	10.267	162	148749	41.635	ng	100
30) 1,2,4-Trichlorobenzene	10.479	180	167034	40.540	ng	100
31) Naphthalene	10.667	128	489177	40.304	ng	100
32) Benzoic acid	9.950	122	108544	41.728	ng	100
33) 4-Chloroaniline	10.778	127	219225	42.751	ng	100
34) Hexachlorobutadiene	10.949	225	107018	40.333	ng	100
35) Caprolactam	11.566	113	54867	41.588	ng	100
36) 4-Chloro-3-methylphenol	11.912	107	182834	41.370	ng	100
37) 2-Methylnaphthalene	12.282	142	352728	40.628	ng	100
38) 1-Methylnaphthalene	12.500	142	329253	39.896	ng	100
40) 1,2,4,5-Tetrachloroben...	12.653	216	196092	39.950	ng	100
41) Hexachlorocyclopentadiene	12.623	237	79732	38.807	ng	100
43) 2,4,6-Trichlorophenol	12.893	196	139046	41.185	ng	100

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG072823\
Data File : BG058514.D
Acq On : 28 Jul 2023 12:05
Operator : MA/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
SSTDICCC040

Quant Time: Jul 28 16:58:26 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 28 16:53:40 2023
Response via : Initial Calibration

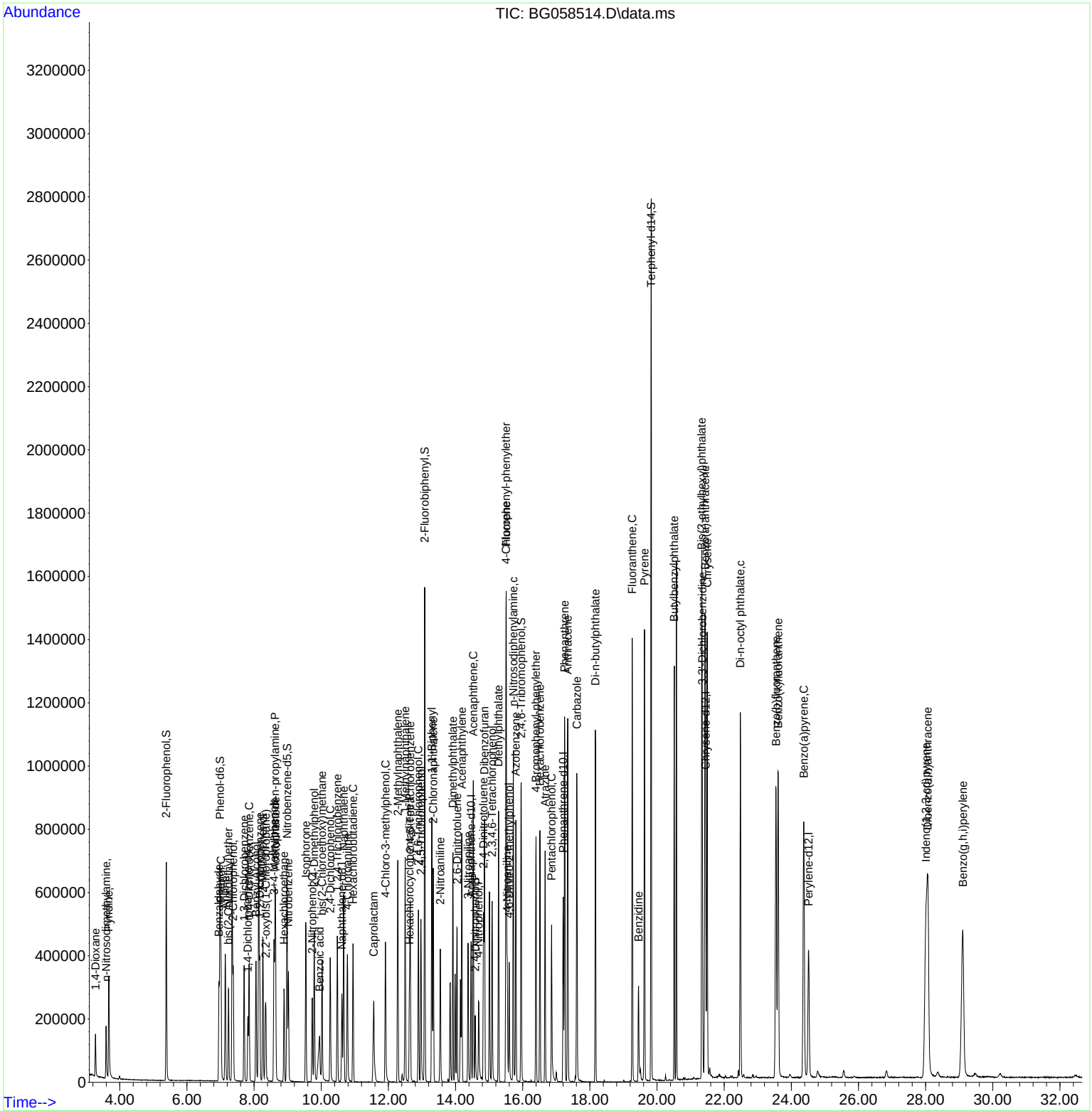
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.970	196	159549	40.123	ng	100
46) 1,1'-Biphenyl	13.293	154	438121	39.903	ng	100
47) 2-Chloronaphthalene	13.334	162	341173	39.852	ng	100
48) 2-Nitroaniline	13.546	65	136470	41.764	ng	100
49) Acenaphthylene	14.186	152	576222	40.203	ng	100
50) Dimethylphthalate	13.922	163	479928	39.970	ng	100
51) 2,6-Dinitrotoluene	14.045	165	106984	40.607	ng	100
52) Acenaphthene	14.527	154	329466	39.782	ng	100
53) 3-Nitroaniline	14.374	138	111063	42.134	ng	100
54) 2,4-Dinitrophenol	14.586	184	52312	39.412	ng	100
55) Dibenzofuran	14.862	168	566914	39.837	ng	100
56) 4-Nitrophenol	14.685	139	78428	41.942	ng	100
57) 2,4-Dinitrotoluene	14.832	165	151170	41.387	ng	100
58) Fluorene	15.508	166	446800	39.522	ng	100
59) 2,3,4,6-Tetrachlorophenol	15.091	232	137546	40.535	ng	100
60) Diethylphthalate	15.279	149	488336	39.921	ng	100
61) 4-Chlorophenyl-phenyle...	15.502	204	249996	39.665	ng	100
62) 4-Nitroaniline	15.537	138	108140	43.653	ng	100
63) Azobenzene	15.796	77	484483	40.211	ng	100
65) 4,6-Dinitro-2-methylph...	15.596	198	90484	42.834	ng	100
66) n-Nitrosodiphenylamine	15.720	169	399900	40.105	ng	100
67) 4-Bromophenyl-phenylether	16.395	248	174105	40.068	ng	100
68) Hexachlorobenzene	16.513	284	182033	39.534	ng	100
69) Atrazine	16.666	200	135081	40.130	ng	100
70) Pentachlorophenol	16.859	266	118786	42.812	ng	100
71) Phenanthrene	17.247	178	722837	39.785	ng	100
72) Anthracene	17.341	178	746740	40.056	ng	100
73) Carbazole	17.611	167	677802	41.230	ng	100
74) Di-n-butylphthalate	18.164	149	841106	40.848	ng	100
75) Fluoranthene	19.262	202	885841	40.589	ng	100
77) Benzidine	19.451	184	245199	48.806	ng	100
78) Pyrene	19.627	202	902774	40.039	ng	100
80) Butylbenzylphthalate	20.514	149	378216	40.838	ng	100
81) Benzo(a)anthracene	21.431	228	918265	40.275	ng	100
82) 3,3'-Dichlorobenzidine	21.348	252	318496	41.315	ng	100
83) Chrysene	21.495	228	878178	40.172	ng	100
84) Bis(2-ethylhexyl)phtha...	21.331	149	551711	40.765	ng	100
85) Di-n-octyl phthalate	22.482	149	972377	40.866	ng	100
87) Indeno(1,2,3-cd)pyrene	28.011	276	1153220	41.087	ng	100
88) Benzo(b)fluoranthene	23.546	252	942571	41.191	ng	100
89) Benzo(k)fluoranthene	23.610	252	930377	40.472	ng	100
90) Benzo(a)pyrene	24.374	252	918326	40.864	ng	100
91) Dibenzo(a,h)anthracene	28.064	278	952642	41.048	ng	100
92) Benzo(g,h,i)perylene	29.110	276	951978	40.907	ng	100

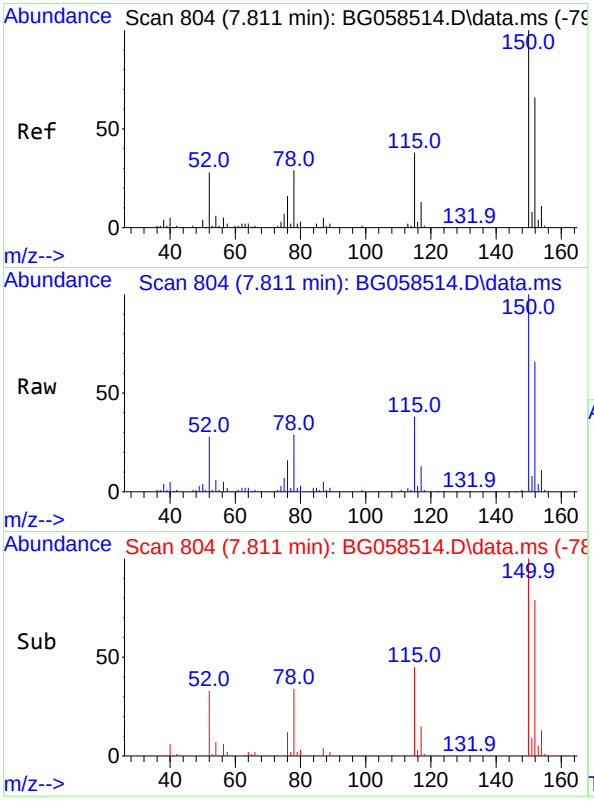
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG072823\
Data File : BG058514.D
Acq On : 28 Jul 2023 12:05
Operator : MA/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
SSTDICCC040

Quant Time: Jul 28 16:58:26 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 28 16:53:40 2023
Response via : Initial Calibration



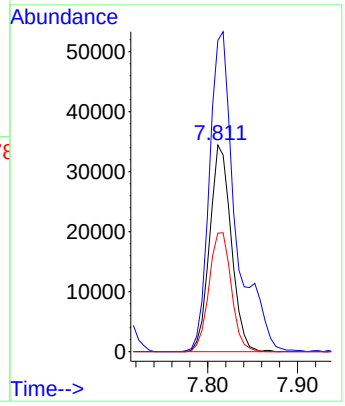


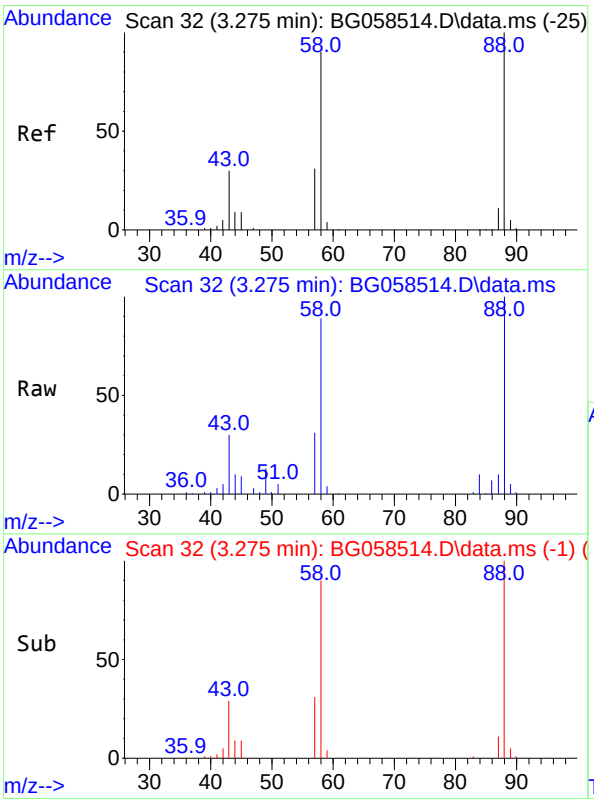
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.811 min Scan# 8
Delta R.T. 0.000 min
Lab File: BG058514.D
Acq: 28 Jul 2023 12:05

Instrument :
BNA_G
ClientSampleId :
SSTDICCC040

Tgt Ion:152 Resp: 57417

Ion	Ratio	Lower	Upper
152	100		
150	150.6	120.5	180.7
115	57.4	45.9	68.9

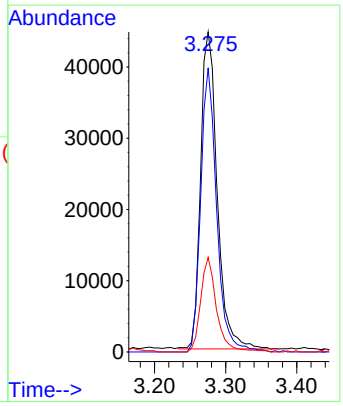


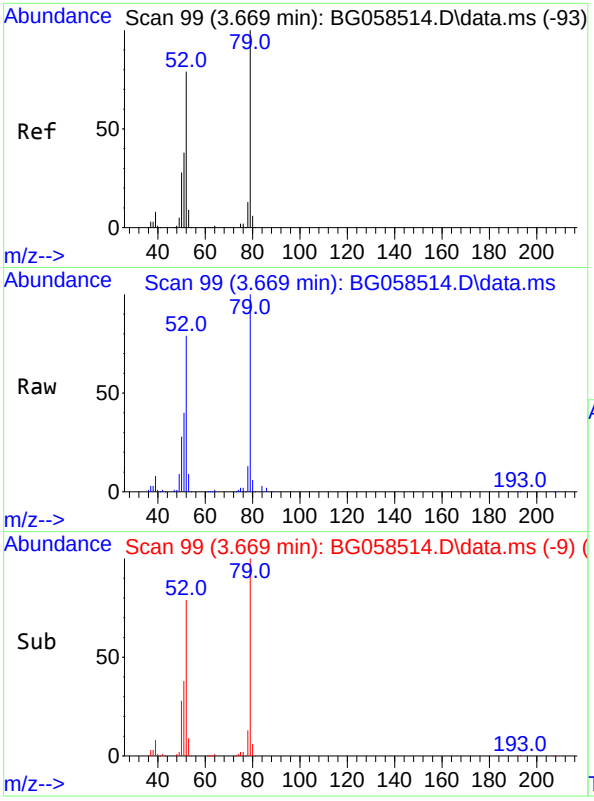


#2
1,4-Dioxane
Concen: 39.762 ng
RT: 3.275 min Scan# 32
Delta R.T. 0.000 min
Lab File: BG058514.D
Acq: 28 Jul 2023 12:05

Tgt Ion: 88 Resp: 72378

Ion	Ratio	Lower	Upper
88	100		
58	86.1	68.9	103.3
43	28.6	22.9	34.3



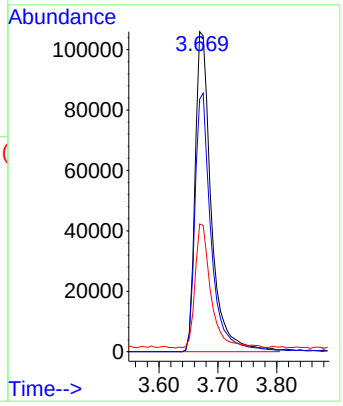


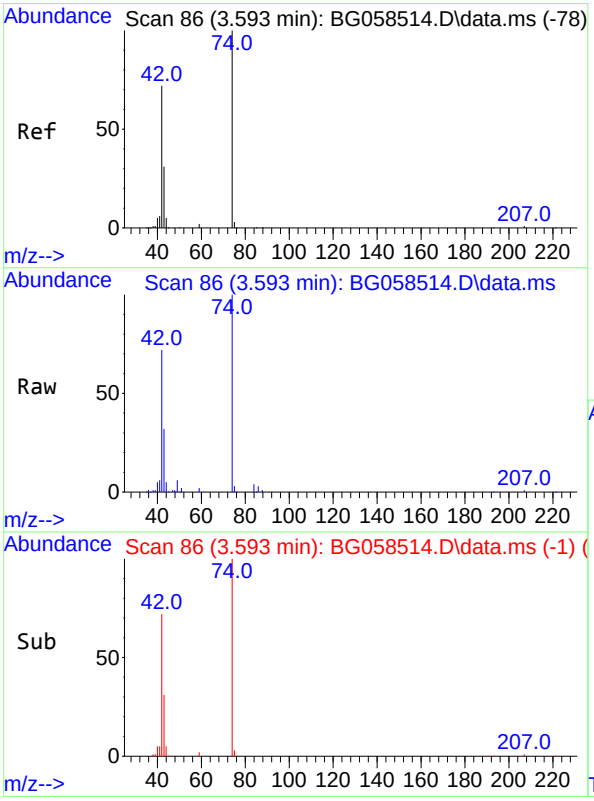
#3
Pyridine
Concen: 40.614 ng
RT: 3.669 min Scan# 9
Delta R.T. 0.000 min
Lab File: BG058514.D
Acq: 28 Jul 2023 12:05

Instrument :
BNA_G
ClientSampleId :
SSTDICCC040

Tgt Ion: 79 Resp: 201559

Ion	Ratio	Lower	Upper
79	100		
52	79.0	63.2	94.8
51	39.9	31.9	47.9

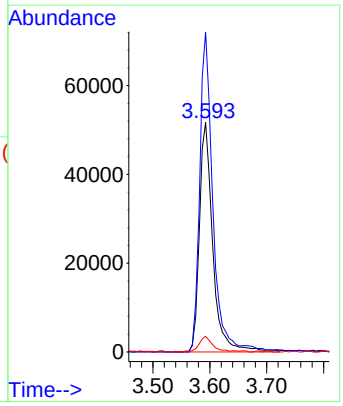


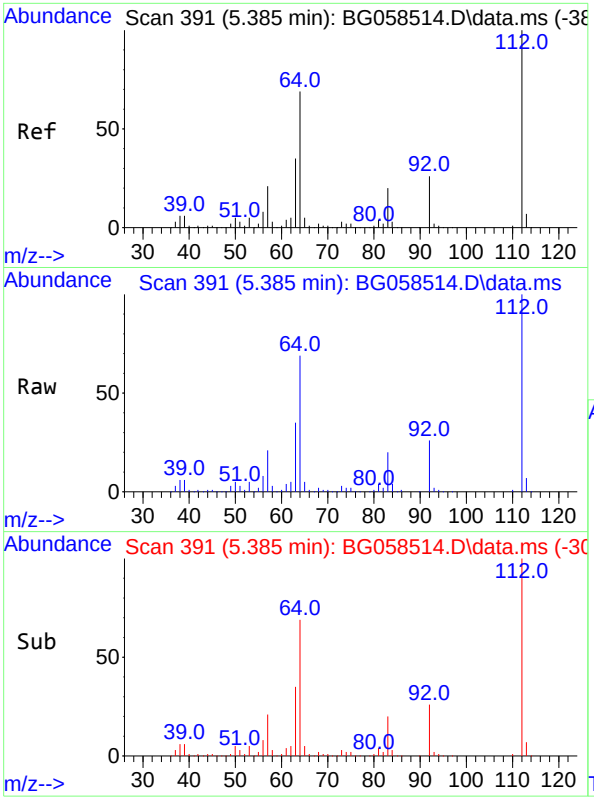


#4
n-Nitrosodimethylamine
Concen: 40.235 ng
RT: 3.593 min Scan# 86
Delta R.T. 0.000 min
Lab File: BG058514.D
Acq: 28 Jul 2023 12:05

Tgt Ion: 42 Resp: 84605

Ion	Ratio	Lower	Upper
42	100		
74	139.4	111.5	167.3
44	6.8	5.4	8.2



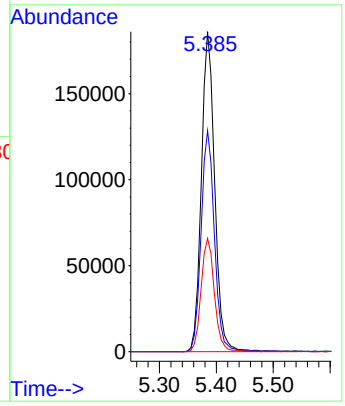


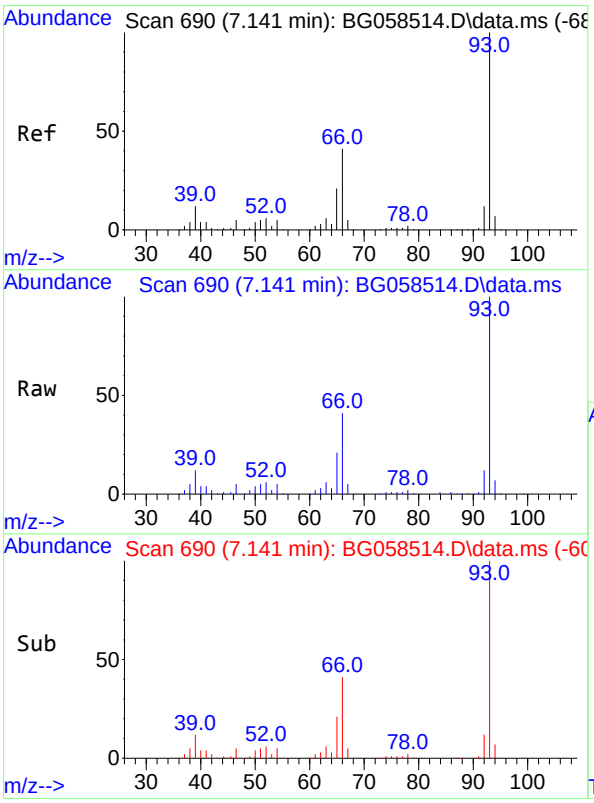
#5
2-Fluorophenol
Concen: 80.580 ng
RT: 5.385 min Scan# 3
Delta R.T. 0.000 min
Lab File: BG058514.D
Acq: 28 Jul 2023 12:05

Instrument :
BNA_G
ClientSampleId :
SSTDICCC040

Tgt Ion:112 Resp: 302703

Ion	Ratio	Lower	Upper
112	100		
64	69.1	55.3	82.9
63	35.4	28.3	42.5

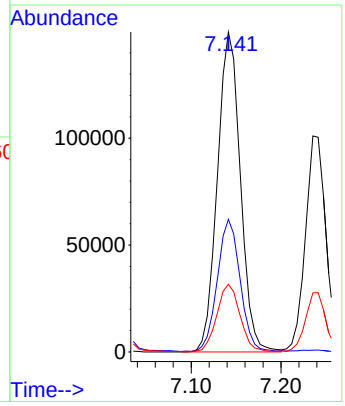


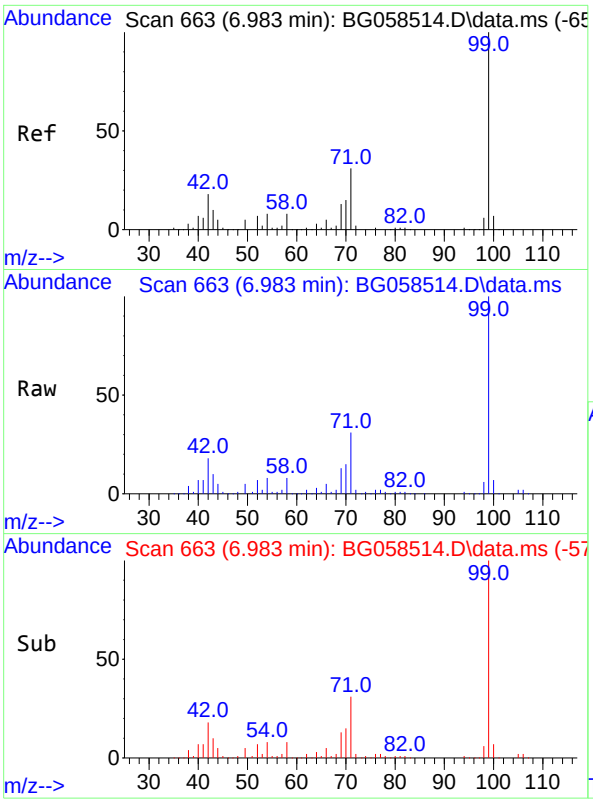


#6
Aniline
Concen: 41.359 ng
RT: 7.141 min Scan# 690
Delta R.T. 0.000 min
Lab File: BG058514.D
Acq: 28 Jul 2023 12:05

Tgt Ion: 93 Resp: 266175

Ion	Ratio	Lower	Upper
93	100		
66	41.4	33.1	49.7
65	21.2	17.0	25.4



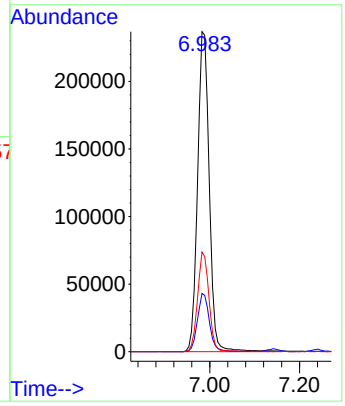


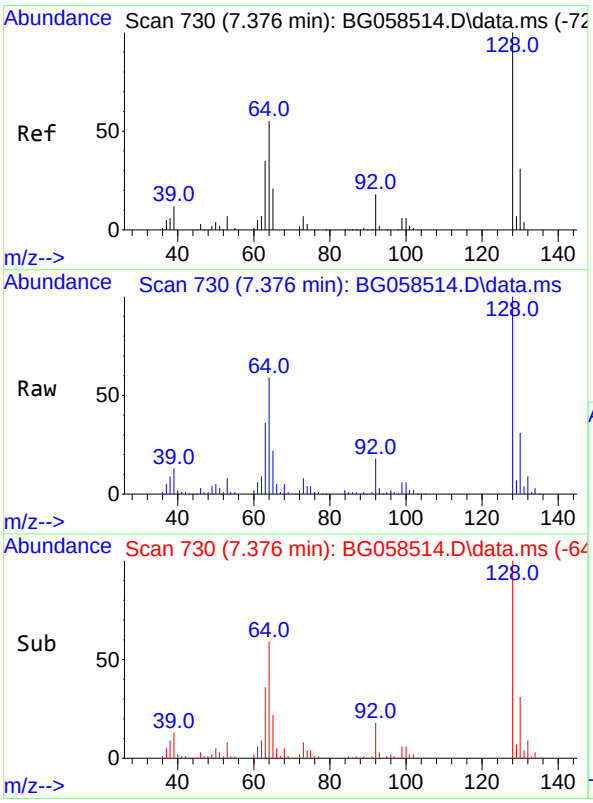
#7
Phenol-d6
Concen: 81.515 ng
RT: 6.983 min Scan# 6
Delta R.T. 0.000 min
Lab File: BG058514.D
Acq: 28 Jul 2023 12:05

Instrument :
BNA_G
ClientSampleId :
SSTDICCC040

Tgt Ion: 99 Resp: 426092

Ion	Ratio	Lower	Upper
99	100		
42	18.2	14.6	21.8
71	31.2	25.0	37.4

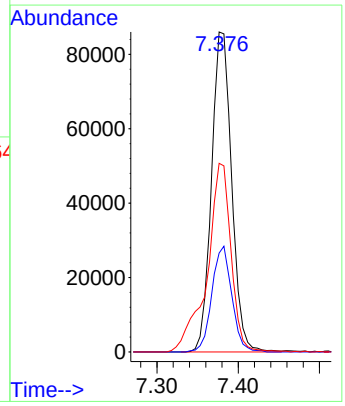


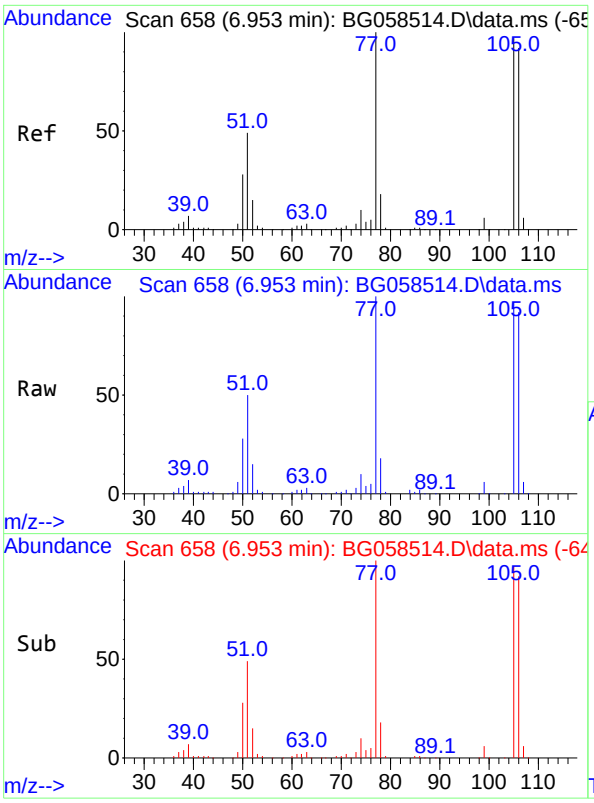


#8
2-Chlorophenol
Concen: 40.198 ng
RT: 7.376 min Scan# 730
Delta R.T. 0.000 min
Lab File: BG058514.D
Acq: 28 Jul 2023 12:05

Tgt Ion:128 Resp: 148141

Ion	Ratio	Lower	Upper
128	100		
130	30.9	10.9	50.9
64	59.0	39.0	79.0



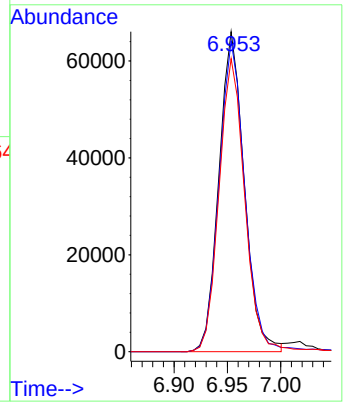


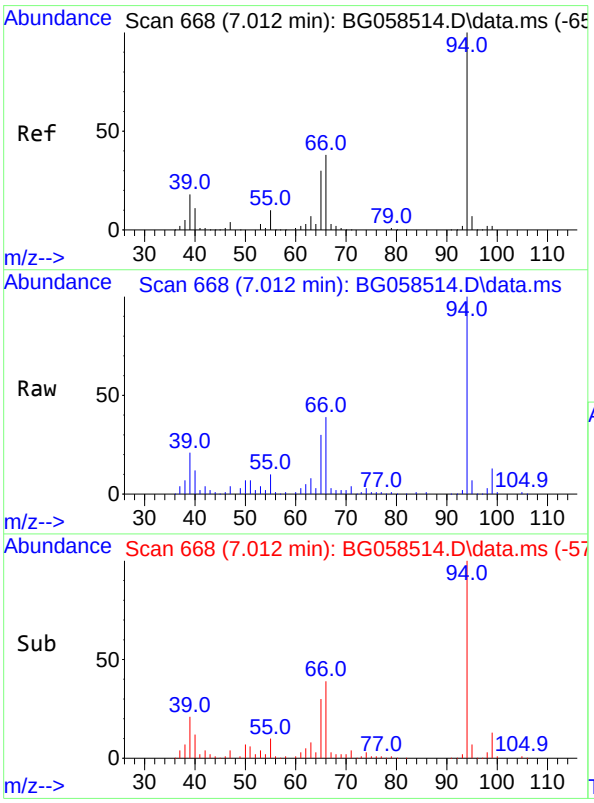
#9
Benzaldehyde
Concen: 38.349 ng
RT: 6.953 min Scan# 6
Delta R.T. 0.000 min
Lab File: BG058514.D
Acq: 28 Jul 2023 12:05

Instrument :
BNA_G
ClientSampleId :
SSTDICCC040

Tgt Ion: 77 Resp: 108905

Ion	Ratio	Lower	Upper
77	100		
105	97.1	77.1	117.1
106	91.6	71.6	111.6

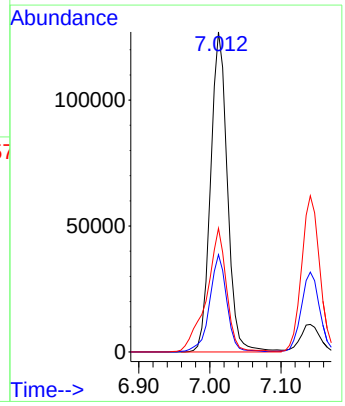


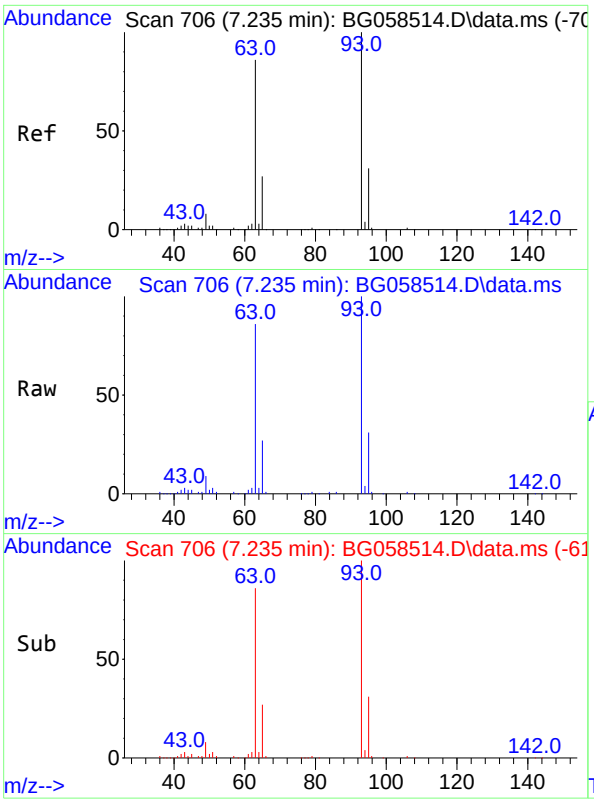


#10
Phenol
Concen: 40.886 ng
RT: 7.012 min Scan# 668
Delta R.T. 0.000 min
Lab File: BG058514.D
Acq: 28 Jul 2023 12:05

Tgt Ion: 94 Resp: 208767

Ion	Ratio	Lower	Upper
94	100		
65	30.4	10.4	50.4
66	38.7	18.7	58.7



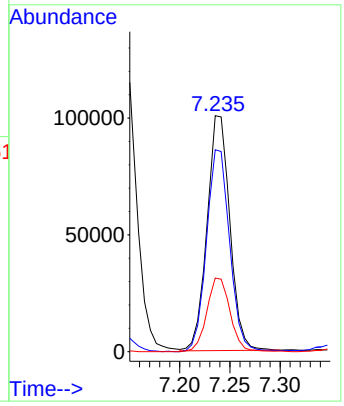


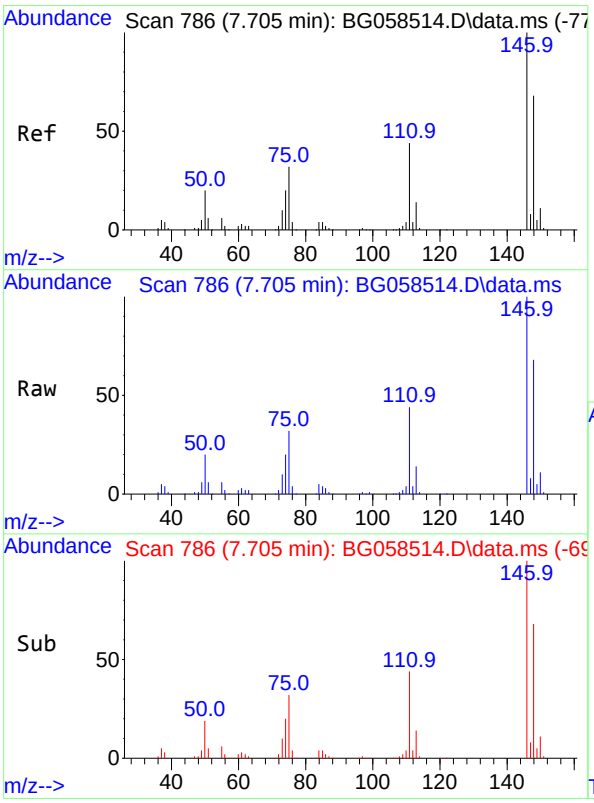
#11
bis(2-Chloroethyl)ether
Concen: 39.577 ng
RT: 7.235 min Scan# 7
Delta R.T. 0.000 min
Lab File: BG058514.D
Acq: 28 Jul 2023 12:05

Instrument :
BNA_G
ClientSampleId :
SSTDICCC040

Tgt Ion: 93 Resp: 159315

Ion	Ratio	Lower	Upper
93	100		
63	85.5	65.5	105.5
95	31.2	11.2	51.2

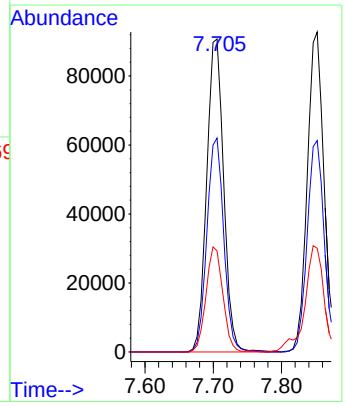


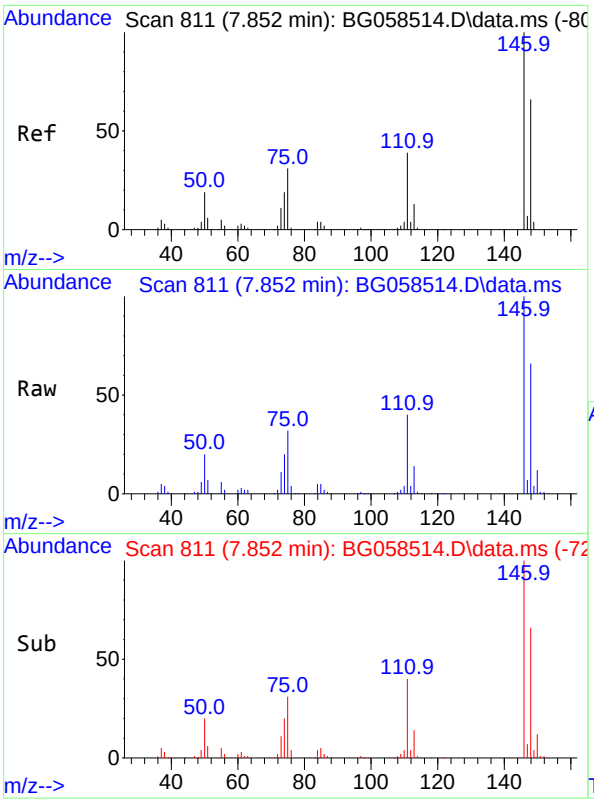


#12
1,3-Dichlorobenzene
Concen: 39.890 ng
RT: 7.705 min Scan# 786
Delta R.T. 0.000 min
Lab File: BG058514.D
Acq: 28 Jul 2023 12:05

Tgt Ion:146 Resp: 156975

Ion	Ratio	Lower	Upper
146	100		
148	68.4	54.7	82.1
75	32.3	25.8	38.8



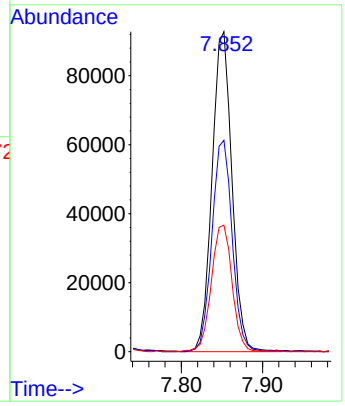


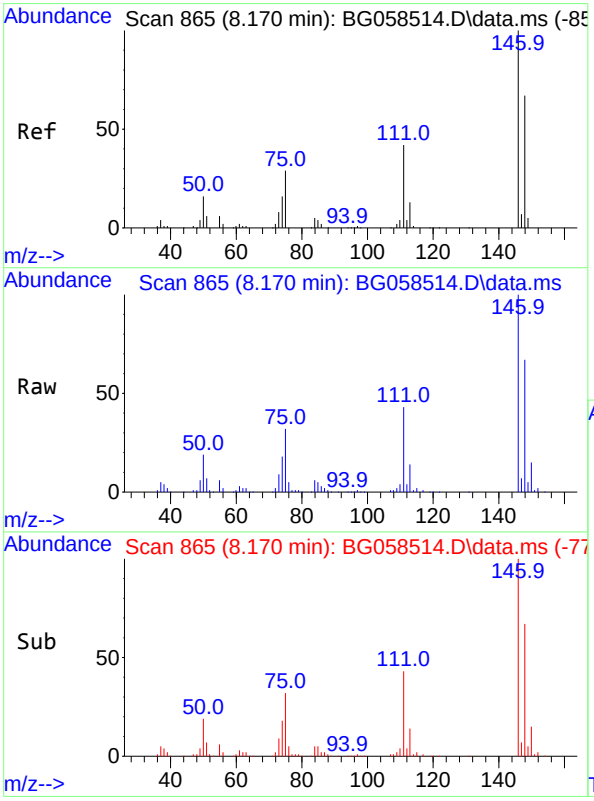
#13
1,4-Dichlorobenzene
Concen: 39.979 ng
RT: 7.852 min Scan# 81
Delta R.T. 0.000 min
Lab File: BG058514.D
Acq: 28 Jul 2023 12:05

Instrument :
BNA_G
ClientSampleId :
SSTDICCC040

Tgt Ion:146 Resp: 157968

Ion	Ratio	Lower	Upper
146	100		
148	66.0	52.8	79.2
111	39.6	31.7	47.5

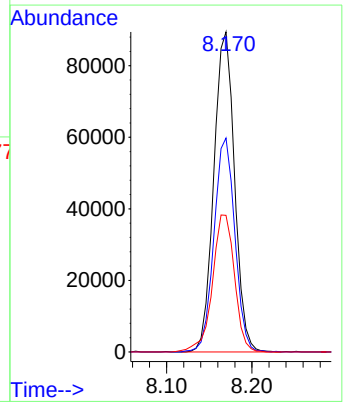


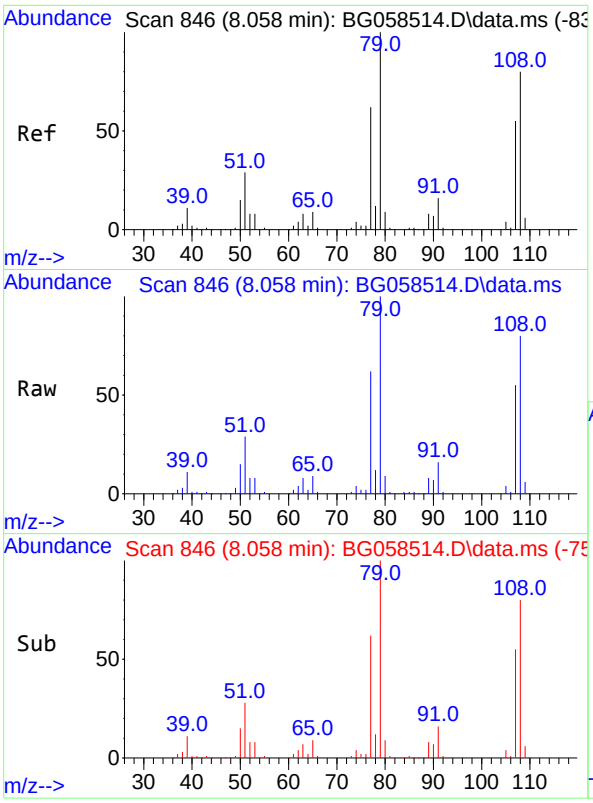


#14
1,2-Dichlorobenzene
Concen: 39.970 ng
RT: 8.170 min Scan# 865
Delta R.T. 0.000 min
Lab File: BG058514.D
Acq: 28 Jul 2023 12:05

Tgt Ion:146 Resp: 150994

Ion	Ratio	Lower	Upper
146	100		
148	66.8	53.4	80.2
111	42.7	34.2	51.2



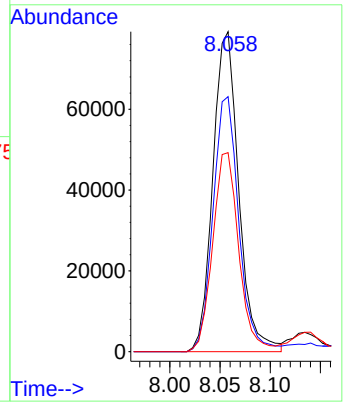


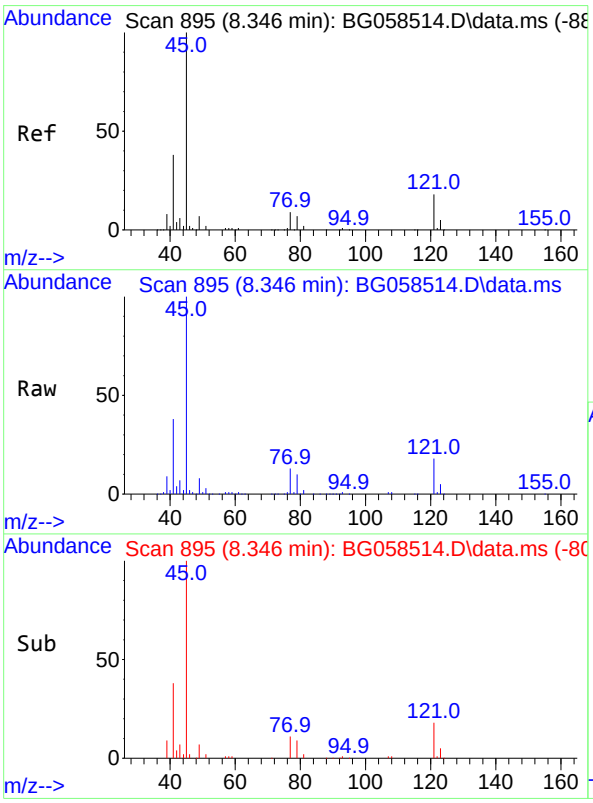
#15
Benzyl Alcohol
Concen: 42.742 ng
RT: 8.058 min Scan# 84
Delta R.T. 0.000 min
Lab File: BG058514.D
Acq: 28 Jul 2023 12:05

Instrument :
BNA_G
ClientSampleId :
SSTDICCC040

Tgt Ion: 79 Resp: 141688

Ion	Ratio	Lower	Upper
79	100		
108	79.7	63.8	95.6
77	62.2	49.8	74.6

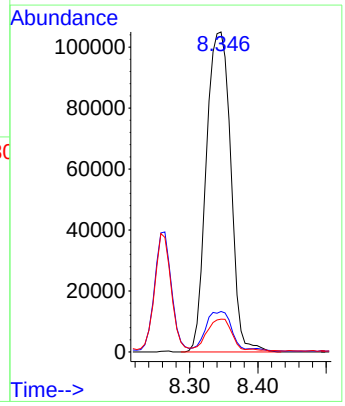


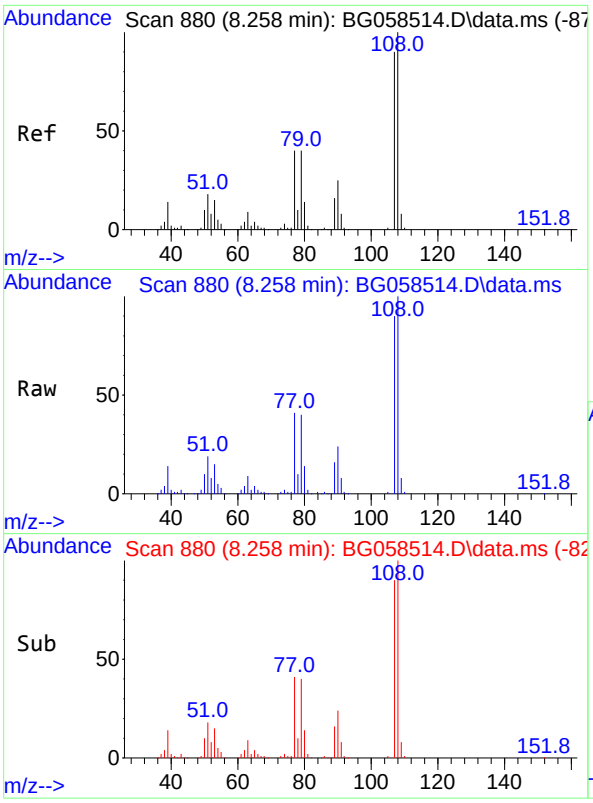


#16
2,2'-oxybis(1-Chloropropane)
Concen: 39.891 ng
RT: 8.346 min Scan# 895
Delta R.T. 0.000 min
Lab File: BG058514.D
Acq: 28 Jul 2023 12:05

Tgt Ion: 45 Resp: 260846

Ion	Ratio	Lower	Upper
45	100		
77	12.6	0.0	32.6
79	10.2	0.0	30.2



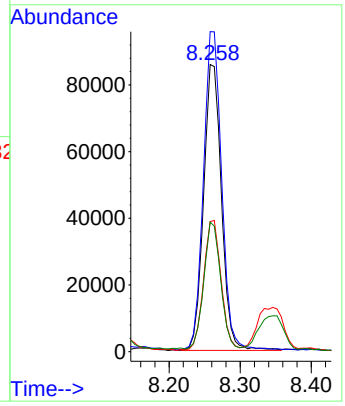


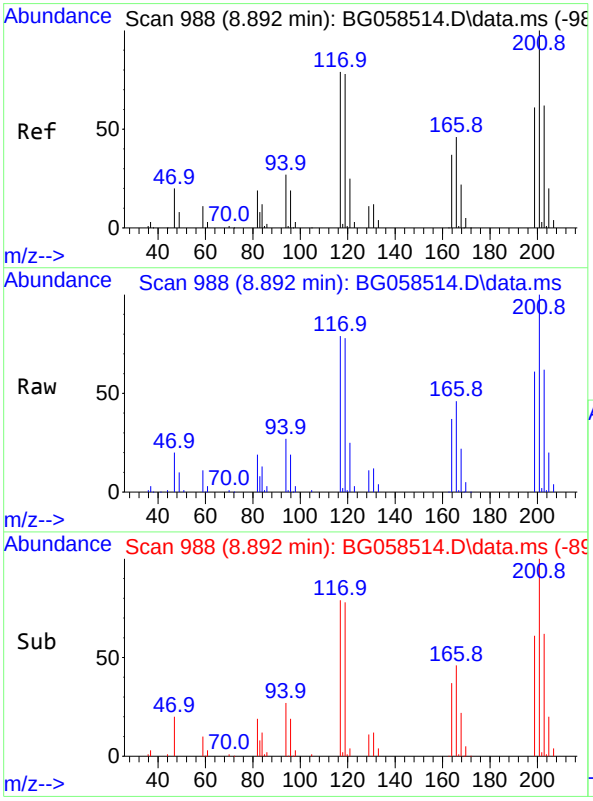
#17
2-Methylphenol
Concen: 40.393 ng
RT: 8.258 min Scan# 8
Delta R.T. 0.000 min
Lab File: BG058514.D
Acq: 28 Jul 2023 12:05

Instrument :
BNA_G
ClientSampleId :
SSTDICCC040

Tgt Ion:107 Resp: 150806

Ion	Ratio	Lower	Upper
107	100		
108	111.4	89.1	133.7
77	45.3	36.2	54.4
79	45.1	36.1	54.1

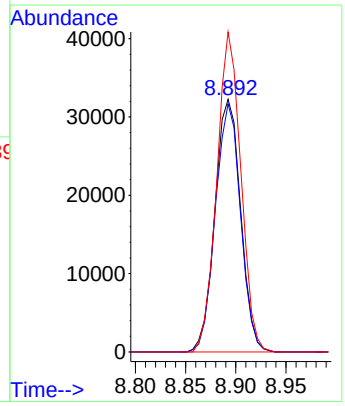


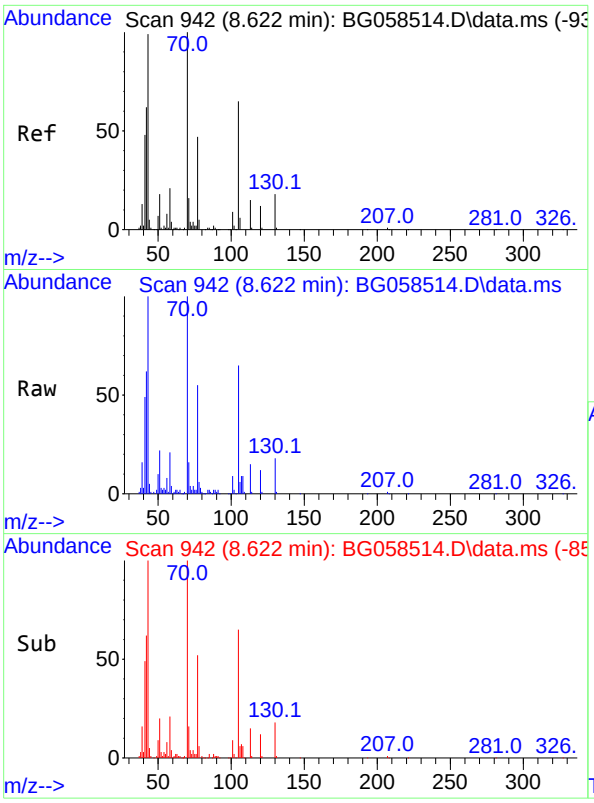


#18
Hexachloroethane
Concen: 39.986 ng
RT: 8.892 min Scan# 988
Delta R.T. 0.000 min
Lab File: BG058514.D
Acq: 28 Jul 2023 12:05

Tgt Ion:117 Resp: 57427

Ion	Ratio	Lower	Upper
117	100		
119	98.2	78.6	117.8
201	126.7	101.4	152.0



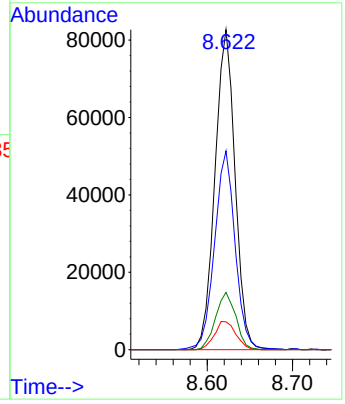


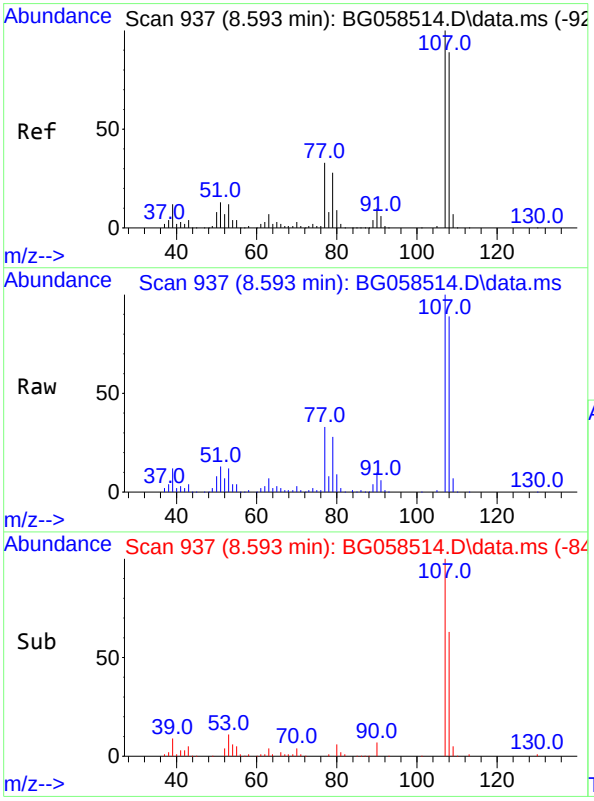
#19
n-Nitroso-di-n-propylamine
Concen: 40.153 ng
RT: 8.622 min Scan# 94
Delta R.T. 0.000 min
Lab File: BG058514.D
Acq: 28 Jul 2023 12:05

Instrument :
BNA_G
ClientSampleId :
SSTDICCC040

Tgt Ion: 70 Resp: 135570

Ion	Ratio	Lower	Upper
70	100		
42	62.1	49.7	74.5
101	8.7	7.0	10.4
130	17.9	14.3	21.5

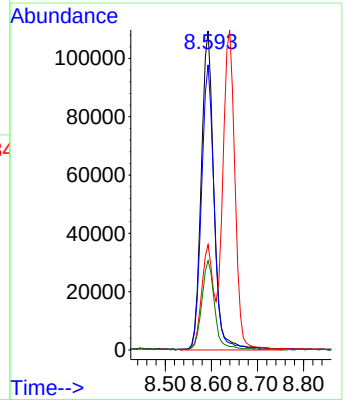


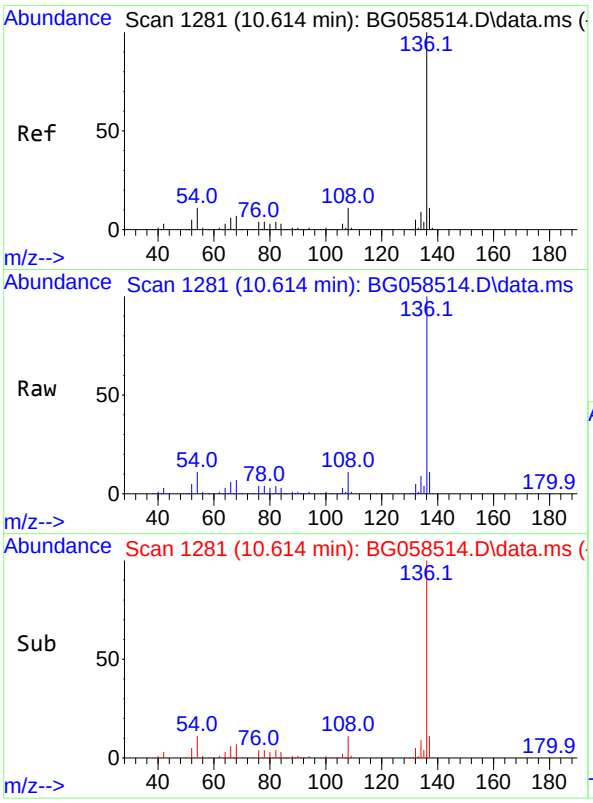


#20
3+4-Methylphenols
Concen: 41.617 ng
RT: 8.593 min Scan# 937
Delta R.T. 0.000 min
Lab File: BG058514.D
Acq: 28 Jul 2023 12:05

Tgt Ion:107 Resp: 210168

Ion	Ratio	Lower	Upper
107	100		
108	89.4	69.4	109.4
77	33.0	13.0	53.0
79	28.0	8.0	48.0



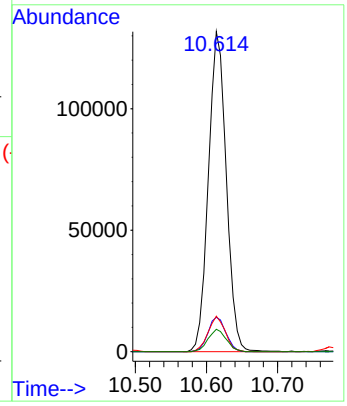


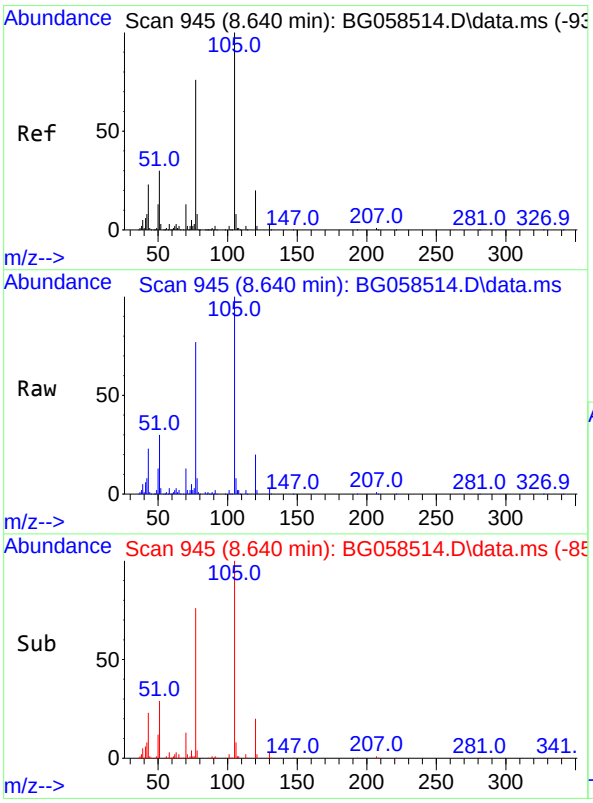
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.614 min Scan# 1
Delta R.T. 0.000 min
Lab File: BG058514.D
Acq: 28 Jul 2023 12:05

Instrument :
BNA_G
ClientSampleId :
SSTDICCC040

Tgt Ion:136 Resp: 230279

Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.6	13.0
54	11.1	8.9	13.3
68	7.0	5.6	8.4

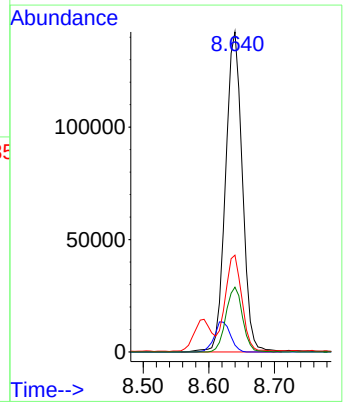


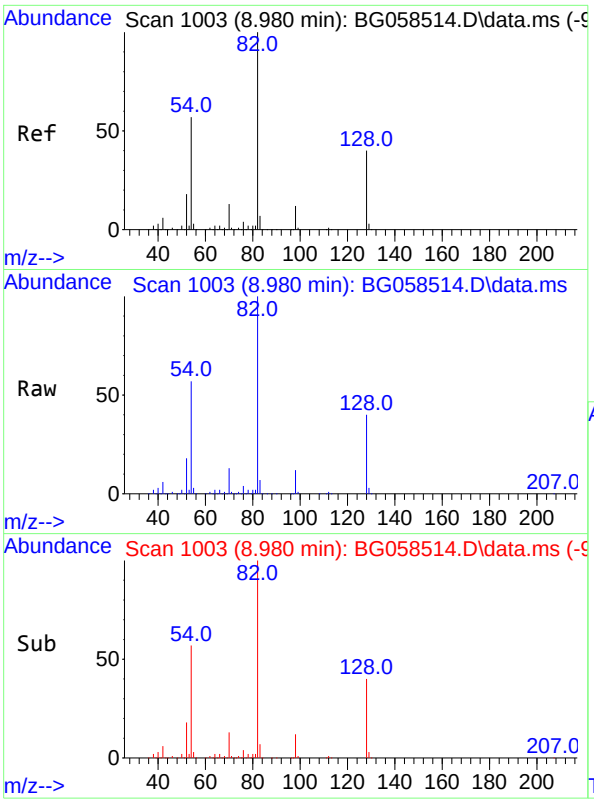


#22
Acetophenone
Concen: 40.901 ng
RT: 8.640 min Scan# 945
Delta R.T. 0.000 min
Lab File: BG058514.D
Acq: 28 Jul 2023 12:05

Tgt Ion:105 Resp: 252194

Ion	Ratio	Lower	Upper
105	100		
71	2.2	1.8	2.6
51	30.2	24.2	36.2
120	20.3	16.2	24.4



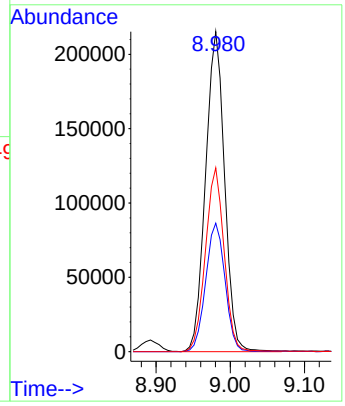


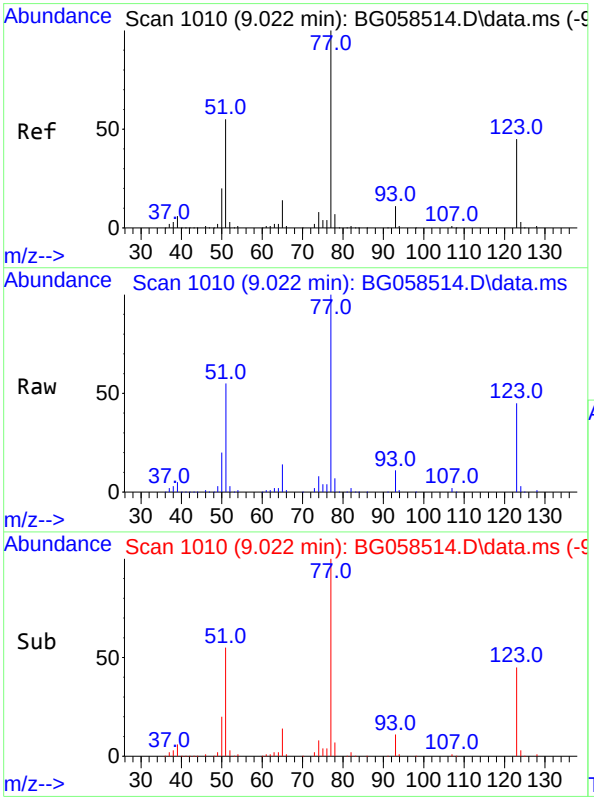
#23
Nitrobenzene-d5
Concen: 81.794 ng
RT: 8.980 min Scan# 1
Delta R.T. 0.000 min
Lab File: BG058514.D
Acq: 28 Jul 2023 12:05

Instrument :
BNA_G
ClientSampleId :
SSTDICCC040

Tgt Ion: 82 Resp: 383415

Ion	Ratio	Lower	Upper
82	100		
128	40.2	32.2	48.2
54	57.5	46.0	69.0

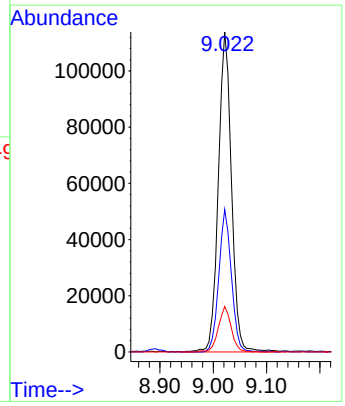


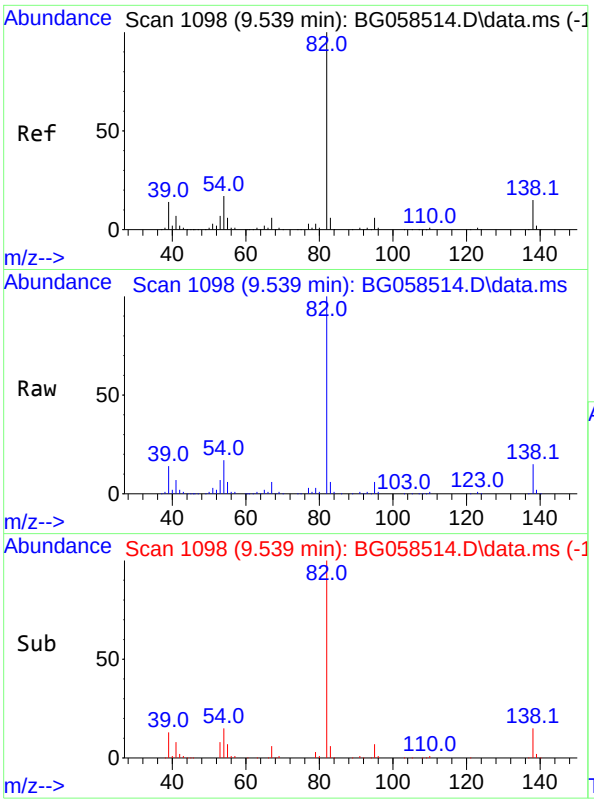


#24
Nitrobenzene
Concen: 40.855 ng
RT: 9.022 min Scan# 1010
Delta R.T. 0.000 min
Lab File: BG058514.D
Acq: 28 Jul 2023 12:05

Tgt Ion: 77 Resp: 194695

Ion	Ratio	Lower	Upper
77	100		
123	44.5	35.6	53.4
65	14.2	11.4	17.0



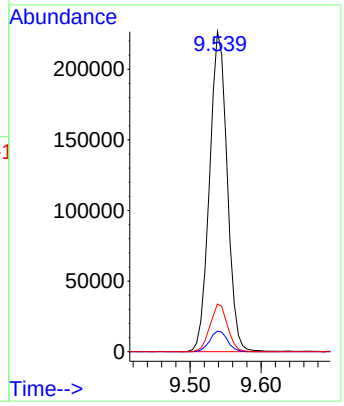


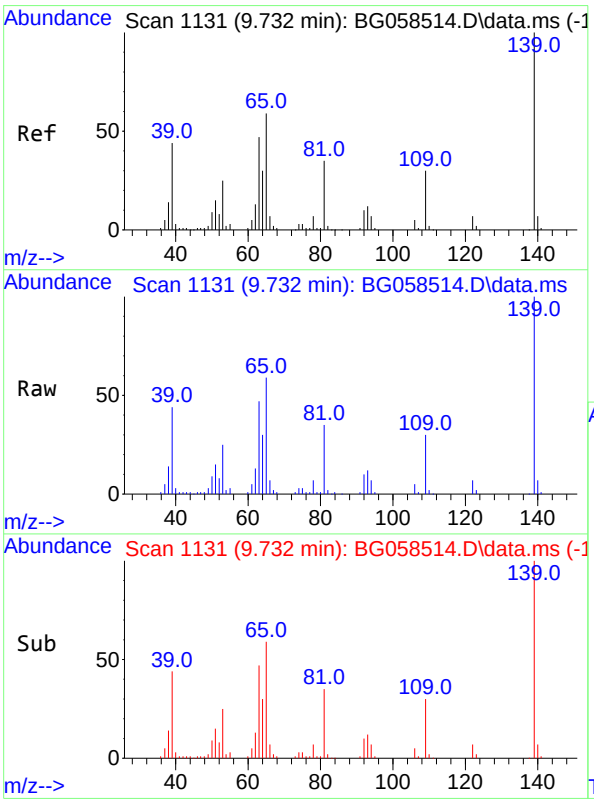
#25
Isophorone
Concen: 40.447 ng
RT: 9.539 min Scan# 1
Delta R.T. 0.000 min
Lab File: BG058514.D
Acq: 28 Jul 2023 12:05

Instrument :
BNA_G
ClientSampleId :
SSTDICCC040

Tgt Ion: 82 Resp: 391748

Ion	Ratio	Lower	Upper
82	100		
95	6.4	5.1	7.7
138	14.9	11.9	17.9

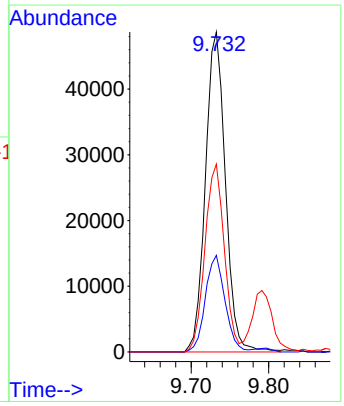


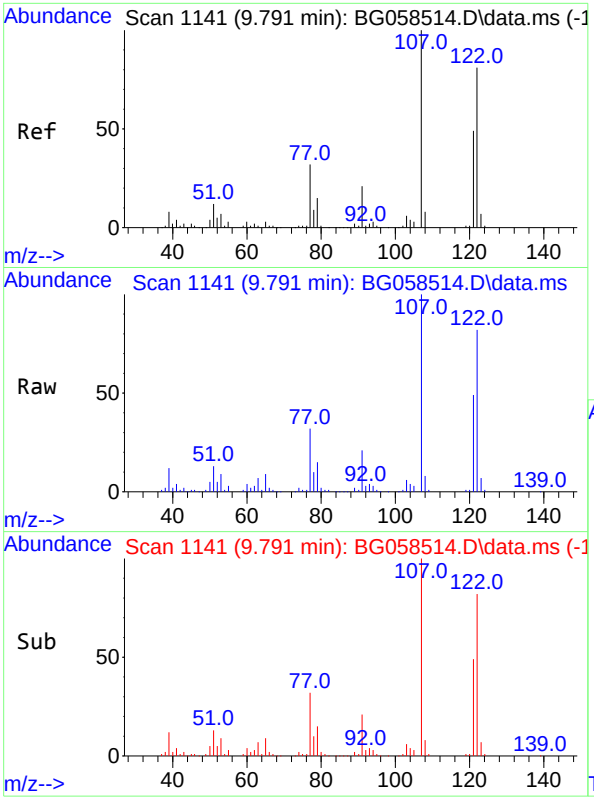


#26
2-Nitrophenol
Concen: 41.990 ng
RT: 9.732 min Scan# 1131
Delta R.T. 0.000 min
Lab File: BG058514.D
Acq: 28 Jul 2023 12:05

Tgt Ion:139 Resp: 87105

Ion	Ratio	Lower	Upper
139	100		
109	30.2	24.2	36.2
65	58.7	47.0	70.4



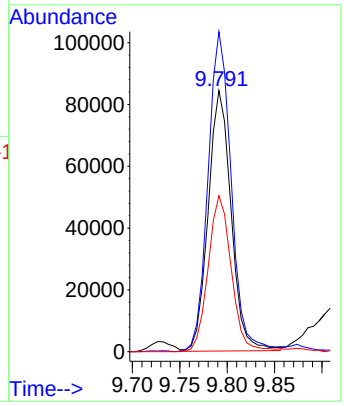


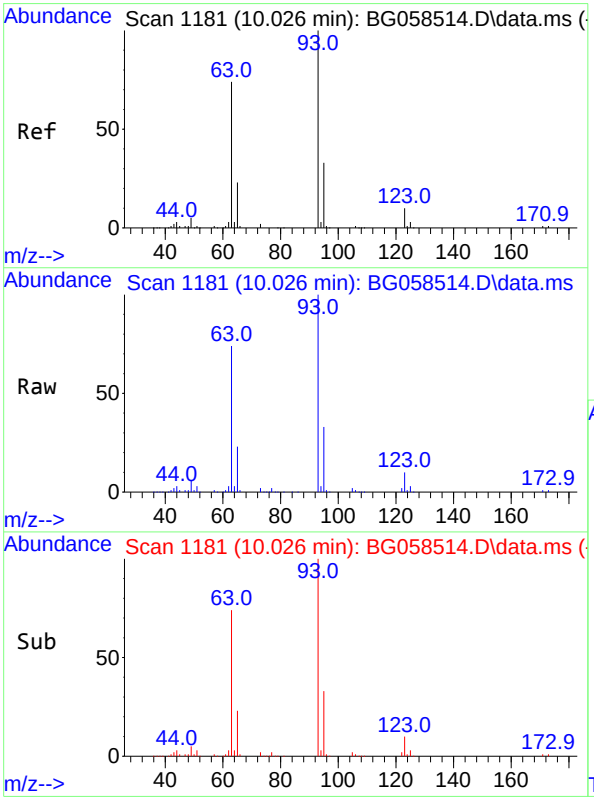
#27
2,4-Dimethylphenol
Concen: 41.279 ng
RT: 9.791 min Scan# 11
Delta R.T. 0.000 min
Lab File: BG058514.D
Acq: 28 Jul 2023 12:05

Instrument :
BNA_G
ClientSampleId :
SSTDICCC040

Tgt Ion:122 Resp: 142039

Ion	Ratio	Lower	Upper
122	100		
107	122.5	98.0	147.0
121	59.7	47.8	71.6

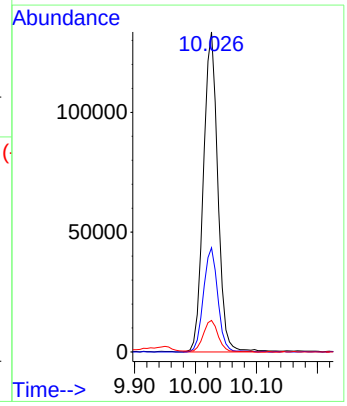


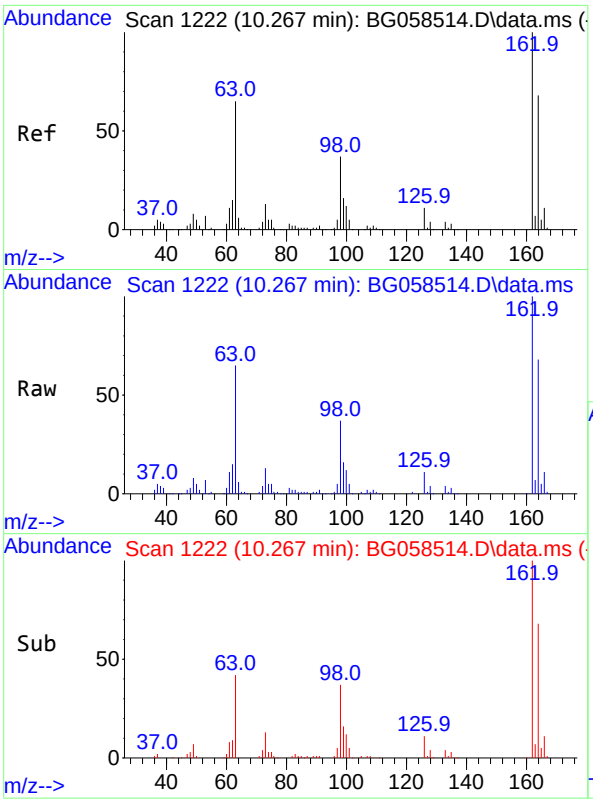


#28
bis(2-Chloroethoxy)methane
Concen: 41.505 ng
RT: 10.026 min Scan# 1181
Delta R.T. 0.000 min
Lab File: BG058514.D
Acq: 28 Jul 2023 12:05

Tgt Ion: 93 Resp: 218767

Ion	Ratio	Lower	Upper
93	100		
95	32.5	26.0	39.0
123	9.8	7.8	11.8



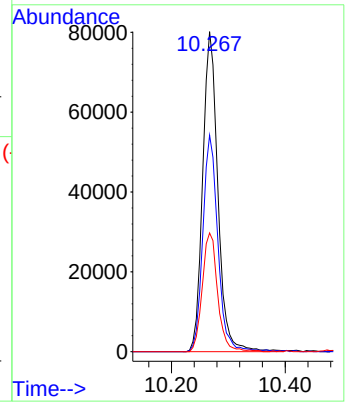


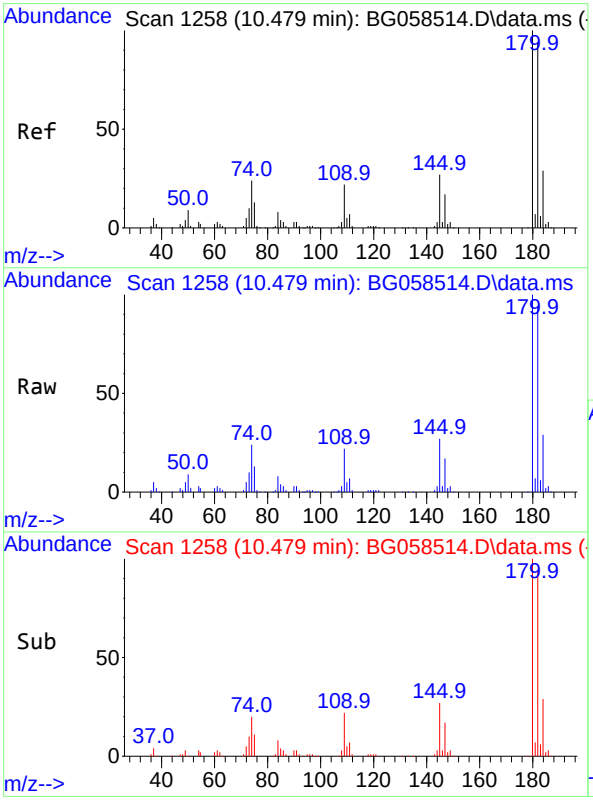
#29
2,4-Dichlorophenol
Concen: 41.635 ng
RT: 10.267 min Scan# 1
Delta R.T. 0.000 min
Lab File: BG058514.D
Acq: 28 Jul 2023 12:05

Instrument :
BNA_G
ClientSampleId :
SSTDICCC040

Tgt Ion:162 Resp: 148749

Ion	Ratio	Lower	Upper
162	100		
164	67.6	47.6	87.6
98	37.1	17.1	57.1

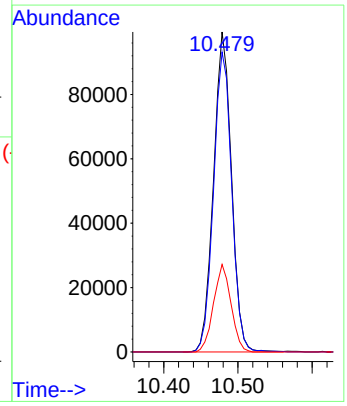


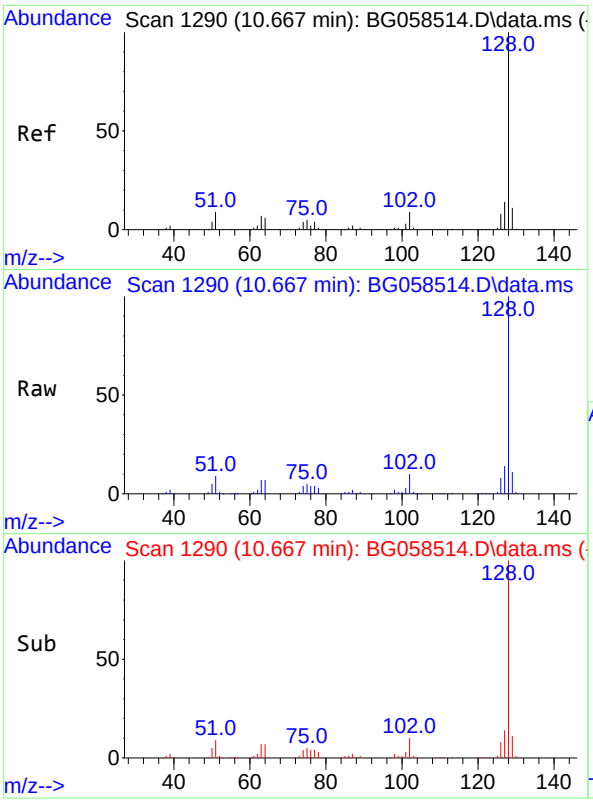


#30
1,2,4-Trichlorobenzene
Concen: 40.540 ng
RT: 10.479 min Scan# 1258
Delta R.T. 0.000 min
Lab File: BG058514.D
Acq: 28 Jul 2023 12:05

Tgt Ion:180 Resp: 167034

Ion	Ratio	Lower	Upper
180	100		
182	93.7	75.0	112.4
145	27.4	21.9	32.9



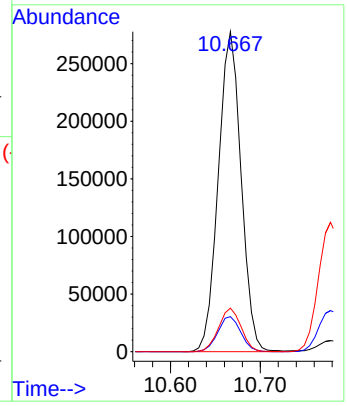


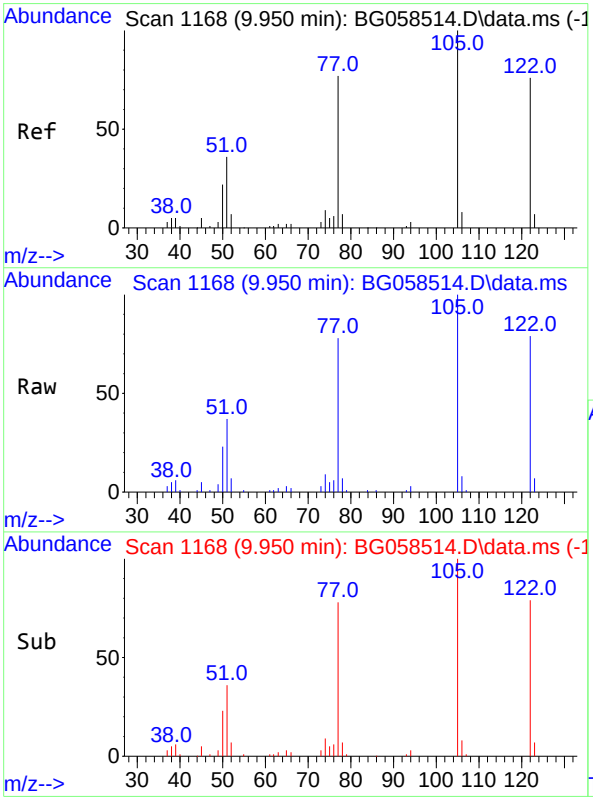
#31
Naphthalene
Concen: 40.304 ng
RT: 10.667 min Scan# 1
Delta R.T. 0.000 min
Lab File: BG058514.D
Acq: 28 Jul 2023 12:05

Instrument :
BNA_G
ClientSampleId :
SSTDICCC040

Tgt Ion:128 Resp: 489177

Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.8	13.2
127	13.6	10.9	16.3

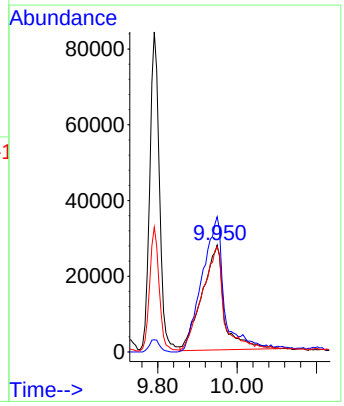


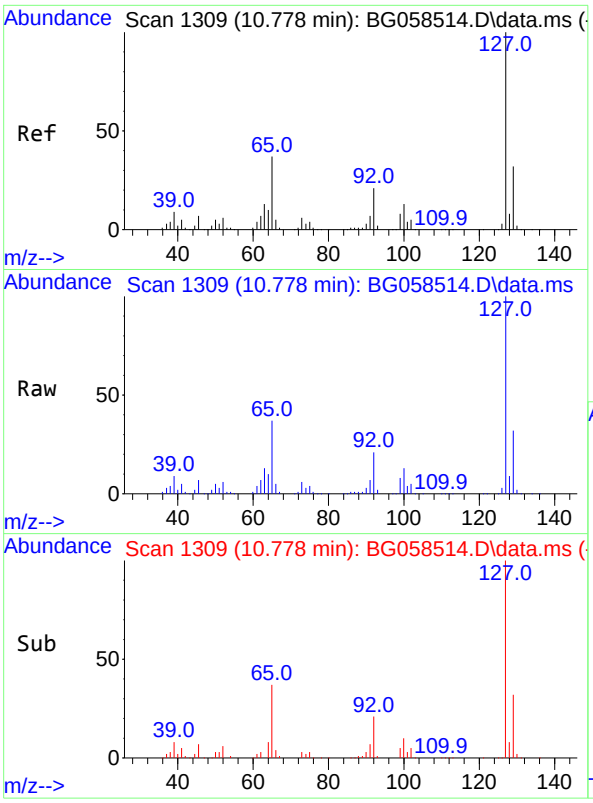


#32
Benzoic acid
Concen: 41.728 ng
RT: 9.950 min Scan# 1168
Delta R.T. -0.000 min
Lab File: BG058514.D
Acq: 28 Jul 2023 12:05

Tgt Ion:122 Resp: 108544

Ion	Ratio	Lower	Upper
122	100		
105	126.5	106.5	146.5
77	98.1	78.1	118.1



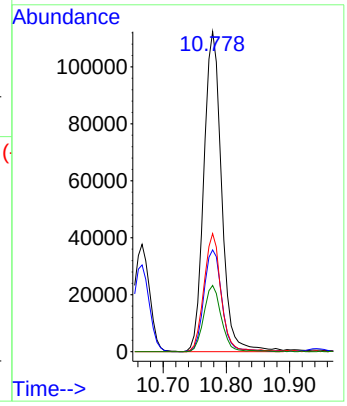


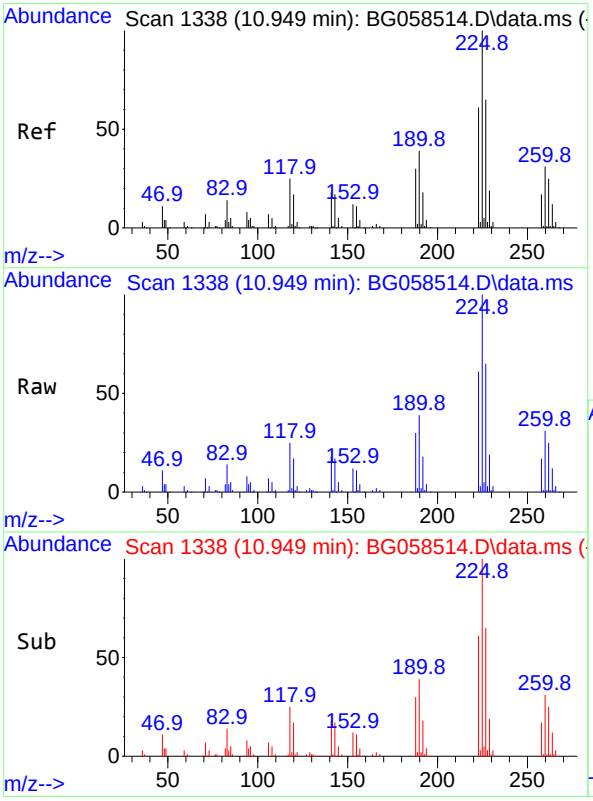
#33
4-Chloroaniline
Concen: 42.751 ng
RT: 10.778 min Scan# 1
Delta R.T. 0.000 min
Lab File: BG058514.D
Acq: 28 Jul 2023 12:05

Instrument :
BNA_G
ClientSampleId :
SSTDICCC040

Tgt Ion:127 Resp: 219225

Ion	Ratio	Lower	Upper
127	100		
129	31.8	25.4	38.2
65	36.9	29.5	44.3
92	20.7	16.6	24.8

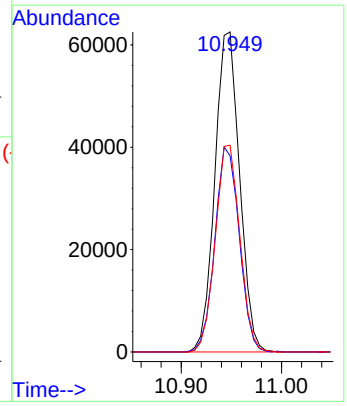


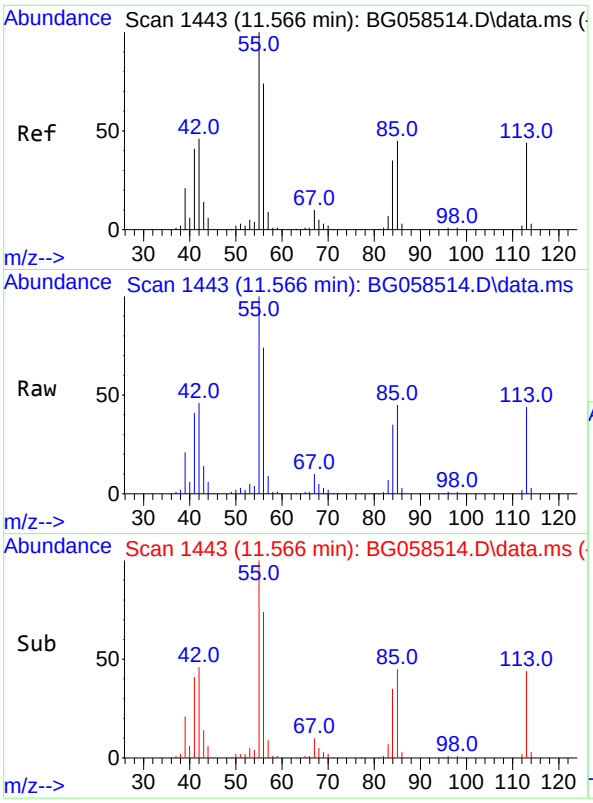


#34
Hexachlorobutadiene
Concen: 40.333 ng
RT: 10.949 min Scan# 1338
Delta R.T. 0.000 min
Lab File: BG058514.D
Acq: 28 Jul 2023 12:05

Tgt Ion:225 Resp: 107018

Ion	Ratio	Lower	Upper
225	100		
223	61.3	49.0	73.6
227	64.6	51.7	77.5



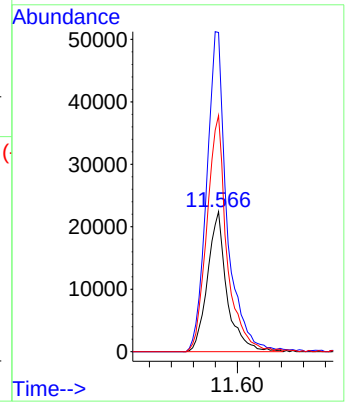


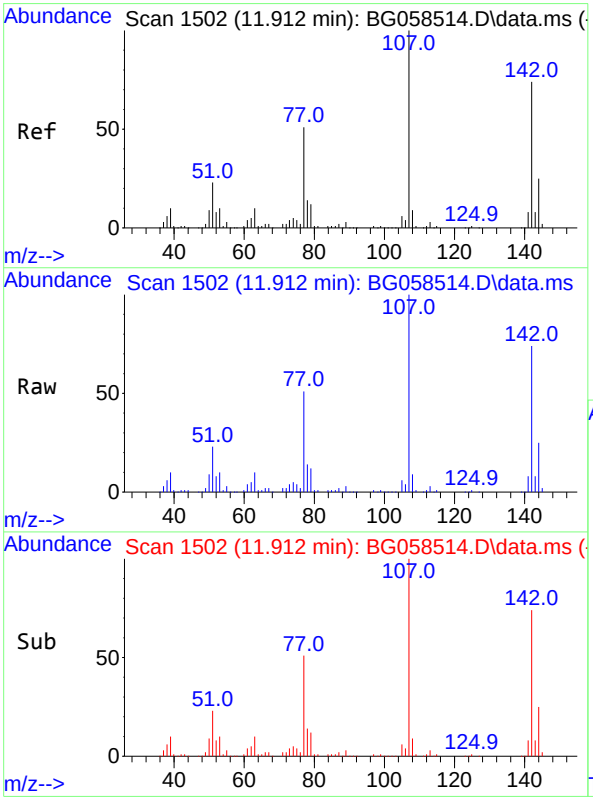
#35
Caprolactam
Concen: 41.588 ng
RT: 11.566 min Scan# 14
Delta R.T. 0.000 min
Lab File: BG058514.D
Acq: 28 Jul 2023 12:05

Instrument :
BNA_G
ClientSampleId :
SSTDICCC040

Tgt Ion:113 Resp: 54867

Ion	Ratio	Lower	Upper
113	100		
55	228.0	208.0	248.0
56	168.6	148.6	188.6

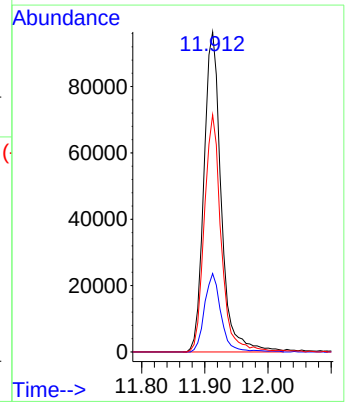


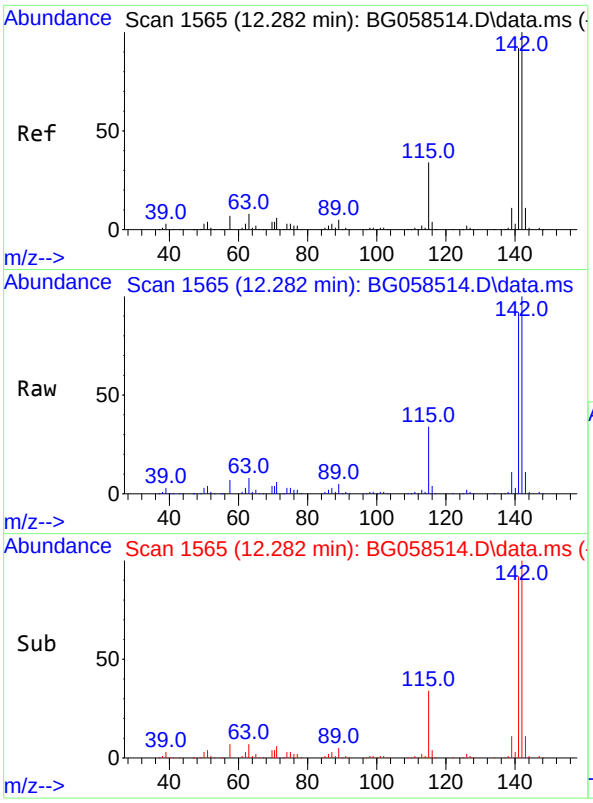


#36
4-Chloro-3-methylphenol
Concen: 41.370 ng
RT: 11.912 min Scan# 1502
Delta R.T. 0.000 min
Lab File: BG058514.D
Acq: 28 Jul 2023 12:05

Tgt Ion:107 Resp: 182834

Ion	Ratio	Lower	Upper
107	100		
144	24.5	19.6	29.4
142	74.1	59.3	88.9



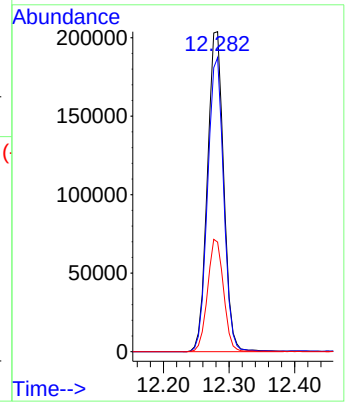


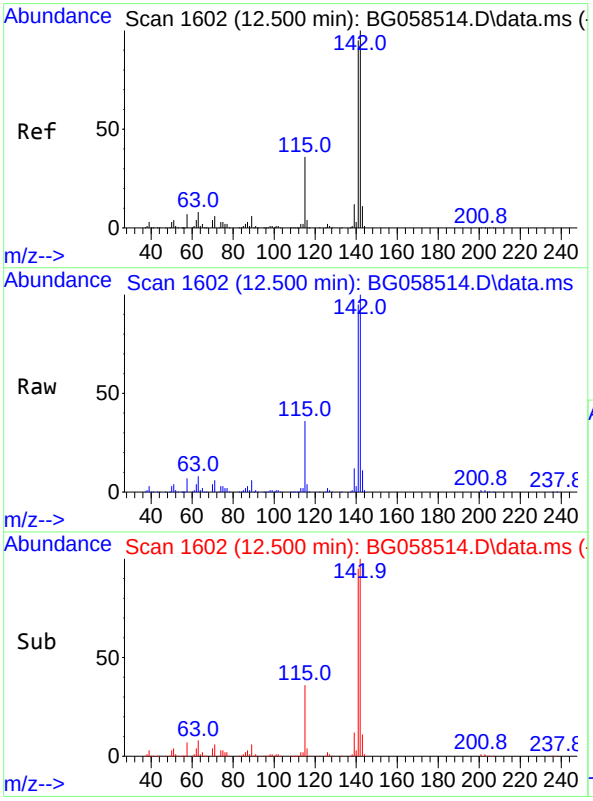
#37
2-Methylnaphthalene
Concen: 40.628 ng
RT: 12.282 min Scan# 1
Delta R.T. 0.000 min
Lab File: BG058514.D
Acq: 28 Jul 2023 12:05

Instrument :
BNA_G
ClientSampleId :
SSTDICCC040

Tgt Ion:142 Resp: 352728

Ion	Ratio	Lower	Upper
142	100		
141	91.9	73.5	110.3
115	34.2	27.4	41.0

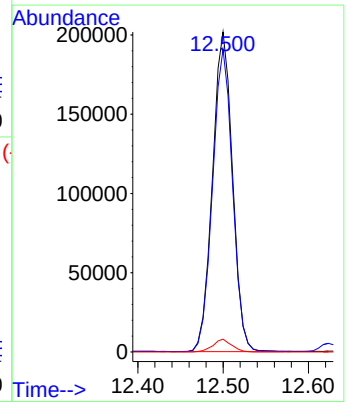


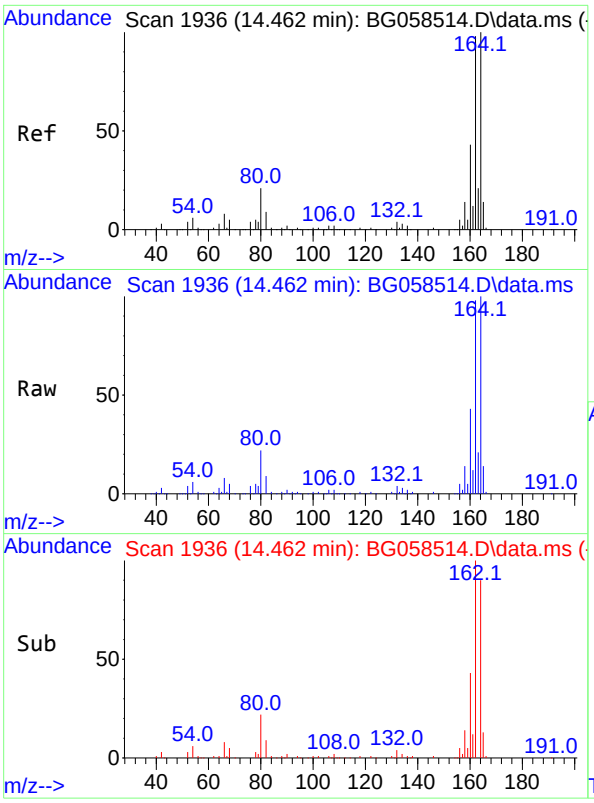


#38
1-Methylnaphthalene
Concen: 39.896 ng
RT: 12.500 min Scan# 1602
Delta R.T. 0.000 min
Lab File: BG058514.D
Acq: 28 Jul 2023 12:05

Tgt Ion:142 Resp: 329253

Ion	Ratio	Lower	Upper
142	100		
141	94.6	75.7	113.5
116	4.0	3.2	4.8



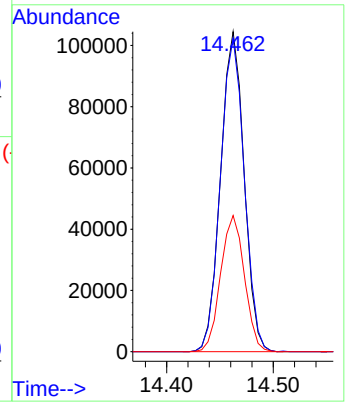


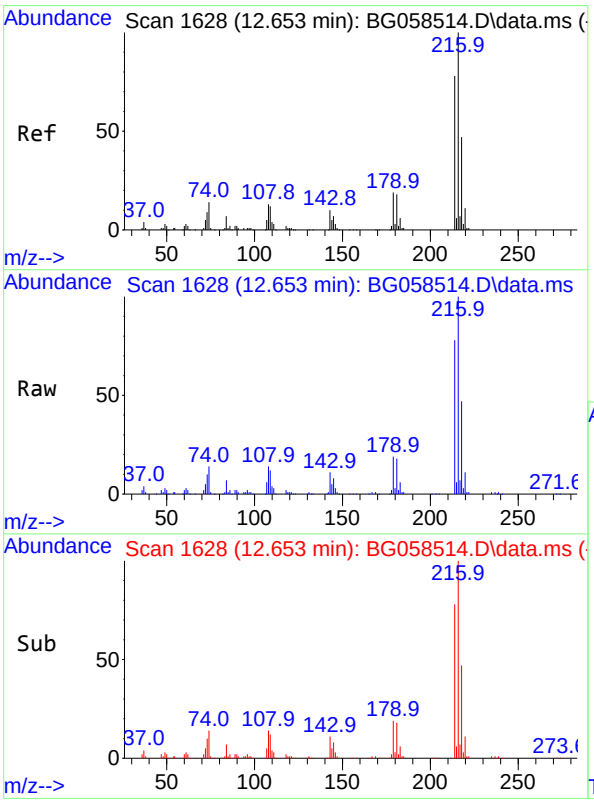
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.462 min Scan# 1
Delta R.T. 0.000 min
Lab File: BG058514.D
Acq: 28 Jul 2023 12:05

Instrument :
BNA_G
ClientSampleId :
SSTDICCC040

Tgt Ion:164 Resp: 159879

Ion	Ratio	Lower	Upper
164	100		
162	97.9	78.3	117.5
160	42.6	34.1	51.1

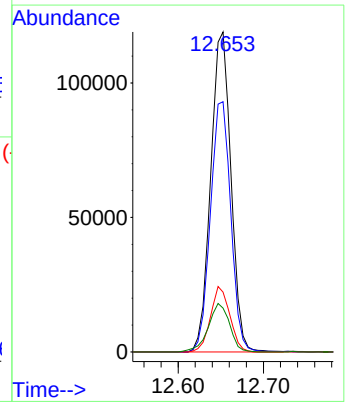


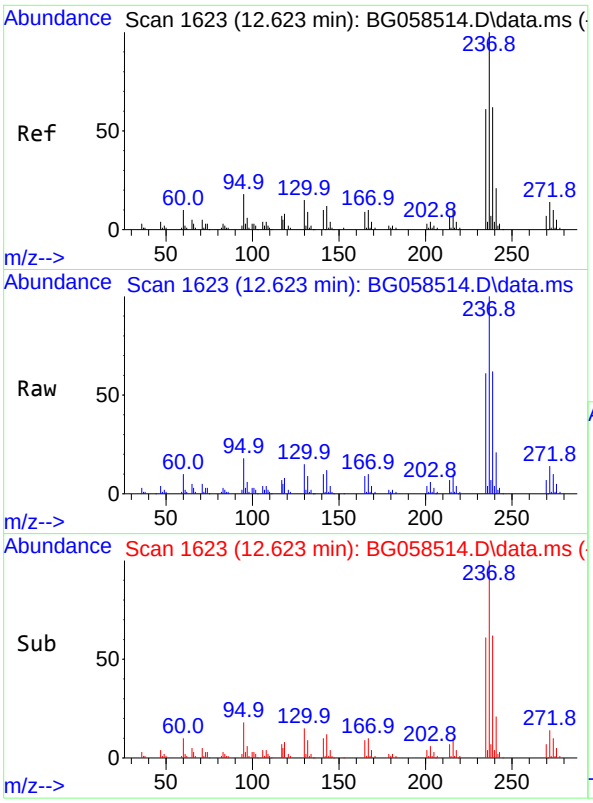


#40
1,2,4,5-Tetrachlorobenzene
Concen: 39.950 ng
RT: 12.653 min Scan# 1628
Delta R.T. 0.000 min
Lab File: BG058514.D
Acq: 28 Jul 2023 12:05

Tgt Ion:216 Resp: 196092

Ion	Ratio	Lower	Upper
216	100		
214	78.9	63.1	94.7
179	19.5	15.6	23.4
108	15.9	12.7	19.1



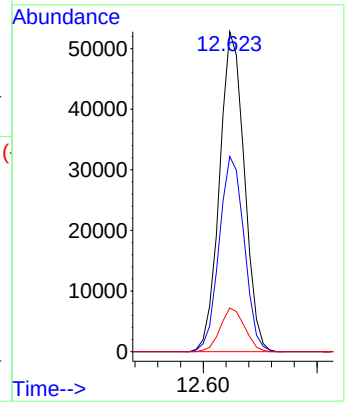


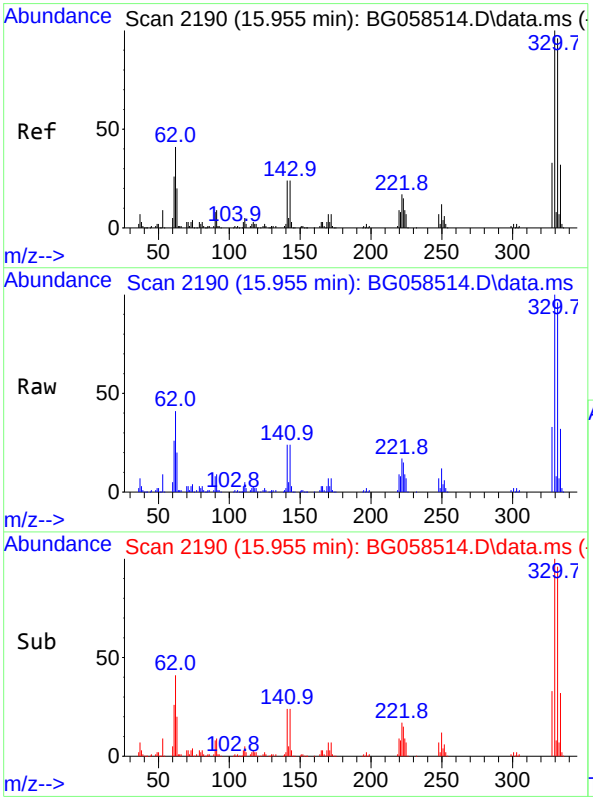
#41
Hexachlorocyclopentadiene
Concen: 38.807 ng
RT: 12.623 min Scan# 1
Delta R.T. 0.000 min
Lab File: BG058514.D
Acq: 28 Jul 2023 12:05

Instrument :
BNA_G
ClientSampleId :
SSTDICCC040

Tgt Ion:237 Resp: 79732

Ion	Ratio	Lower	Upper
237	100		
235	61.0	41.0	81.0
272	13.6	0.0	33.6

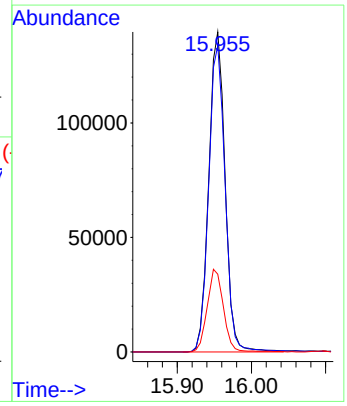


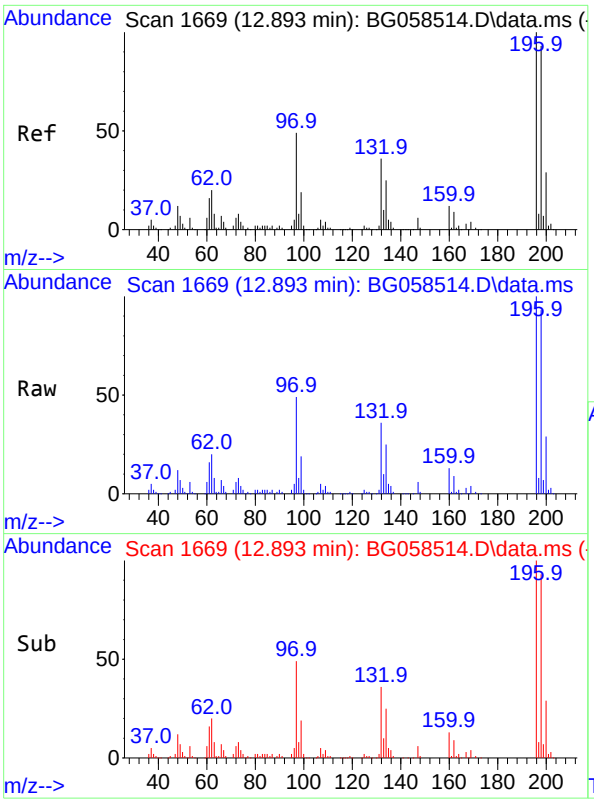


#42
2,4,6-Tribromophenol
Concen: 81.410 ng
RT: 15.955 min Scan# 2190
Delta R.T. 0.000 min
Lab File: BG058514.D
Acq: 28 Jul 2023 12:05

Tgt Ion:330 Resp: 213337

Ion	Ratio	Lower	Upper
330	100		
332	96.9	77.5	116.3
141	25.9	20.7	31.1



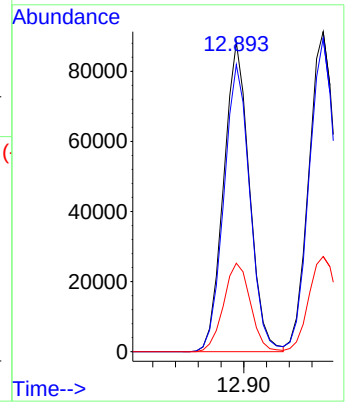


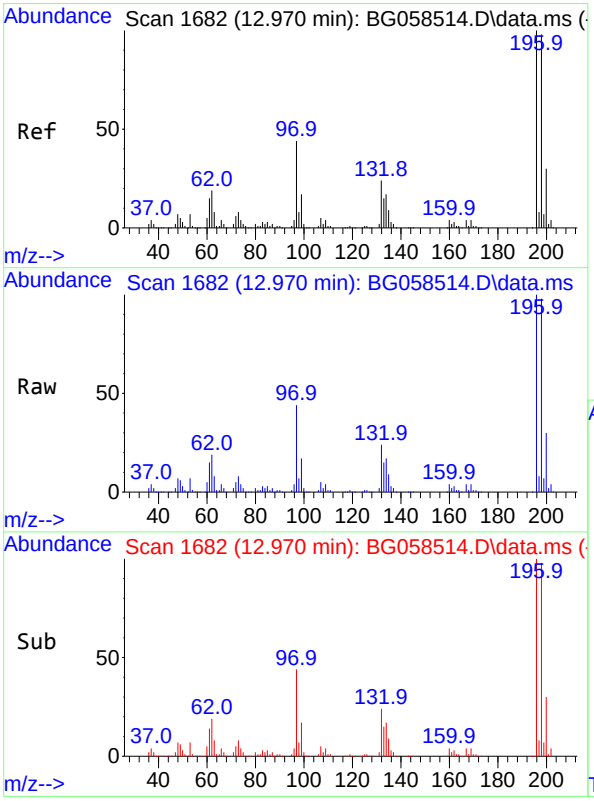
#43
2,4,6-Trichlorophenol
Concen: 41.185 ng
RT: 12.893 min Scan# 1
Delta R.T. 0.000 min
Lab File: BG058514.D
Acq: 28 Jul 2023 12:05

Instrument :
BNA_G
ClientSampleId :
SSTDICCC040

Tgt Ion:196 Resp: 139046

Ion	Ratio	Lower	Upper
196	100		
198	92.8	74.2	111.4
200	28.6	22.9	34.3

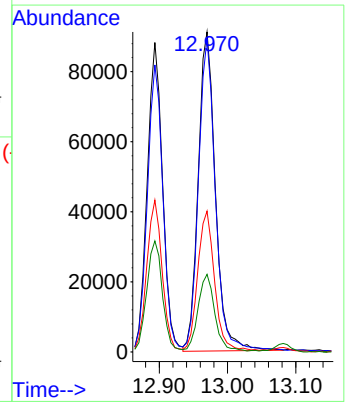


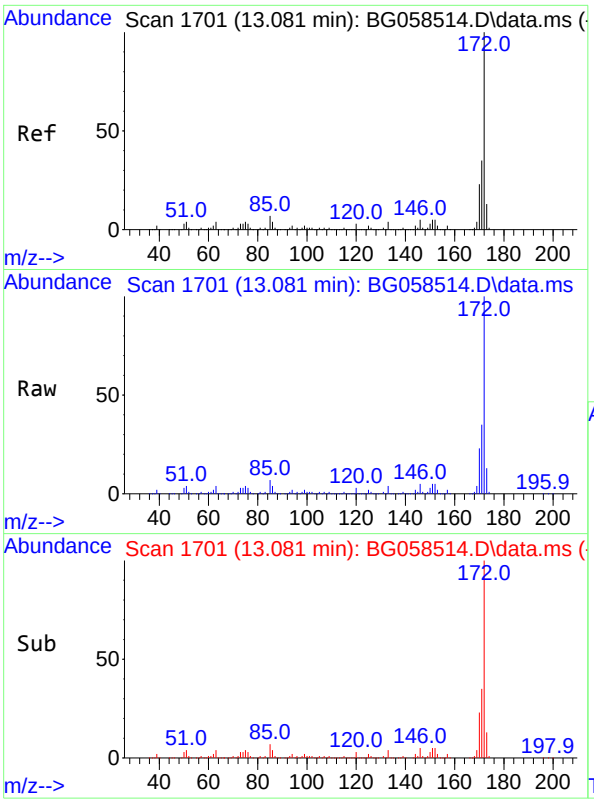


#44
2,4,5-Trichlorophenol
Concen: 40.123 ng
RT: 12.970 min Scan# 1682
Delta R.T. 0.000 min
Lab File: BG058514.D
Acq: 28 Jul 2023 12:05

Tgt Ion:196 Resp: 159549

Ion	Ratio	Lower	Upper
196	100		
198	97.9	78.3	117.5
97	44.0	35.2	52.8
132	24.2	19.4	29.0



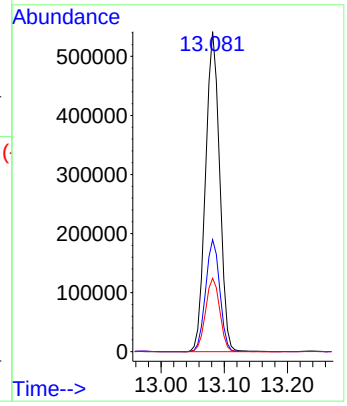


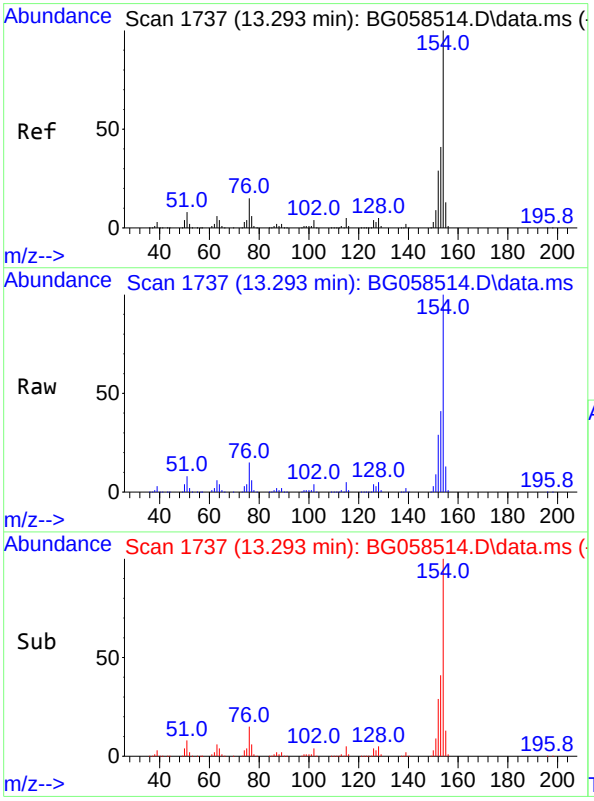
#45
2-Fluorobiphenyl
Concen: 78.692 ng
RT: 13.081 min Scan# 1
Delta R.T. 0.000 min
Lab File: BG058514.D
Acq: 28 Jul 2023 12:05

Instrument :
BNA_G
ClientSampleId :
SSTDICCC040

Tgt Ion:172 Resp: 839533

Ion	Ratio	Lower	Upper
172	100		
171	35.0	28.0	42.0
170	23.0	18.4	27.6

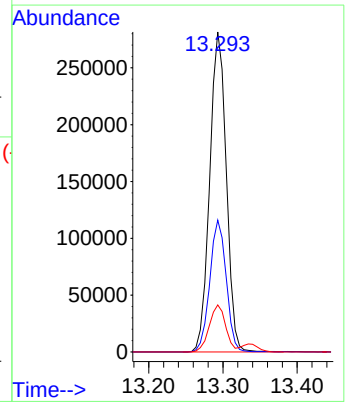


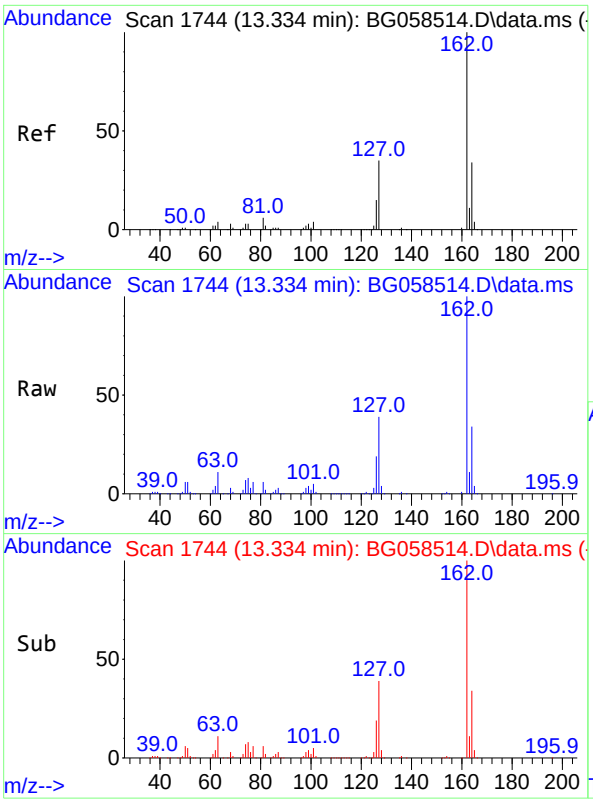


#46
1,1'-Biphenyl
Concen: 39.903 ng
RT: 13.293 min Scan# 1737
Delta R.T. 0.000 min
Lab File: BG058514.D
Acq: 28 Jul 2023 12:05

Tgt Ion:154 Resp: 438121

Ion	Ratio	Lower	Upper
154	100		
153	41.2	21.2	61.2
76	14.7	0.0	34.7



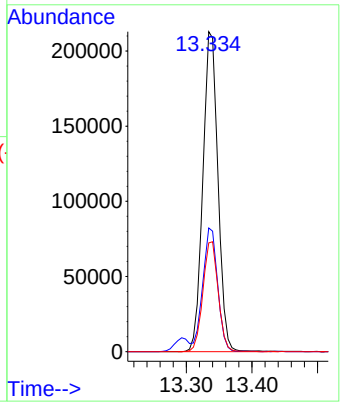


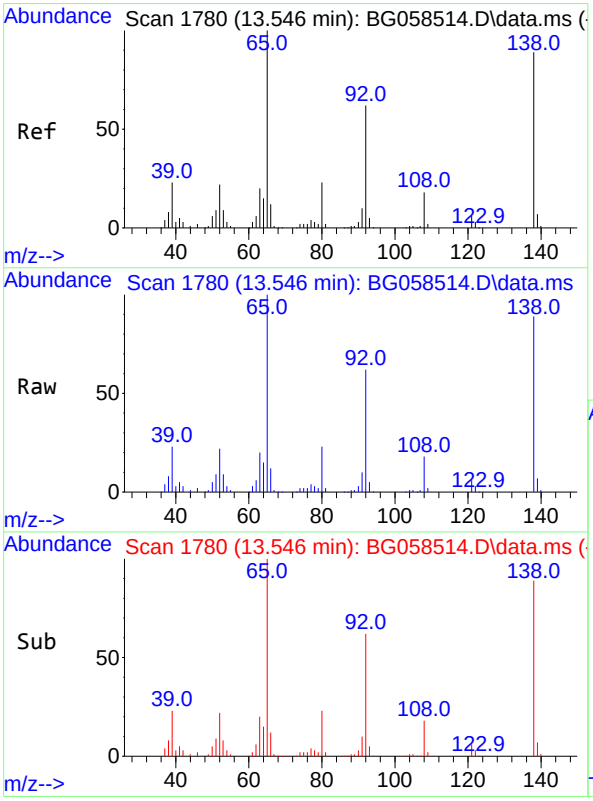
#47
2-Chloronaphthalene
Concen: 39.852 ng
RT: 13.334 min Scan# 1
Delta R.T. 0.000 min
Lab File: BG058514.D
Acq: 28 Jul 2023 12:05

Instrument :
BNA_G
ClientSampleId :
SSTDICCC040

Tgt Ion:162 Resp: 341173

Ion	Ratio	Lower	Upper
162	100		
127	38.6	30.9	46.3
164	34.0	27.2	40.8

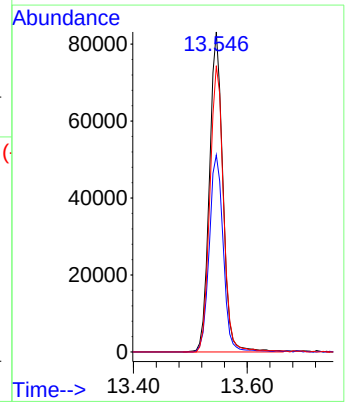


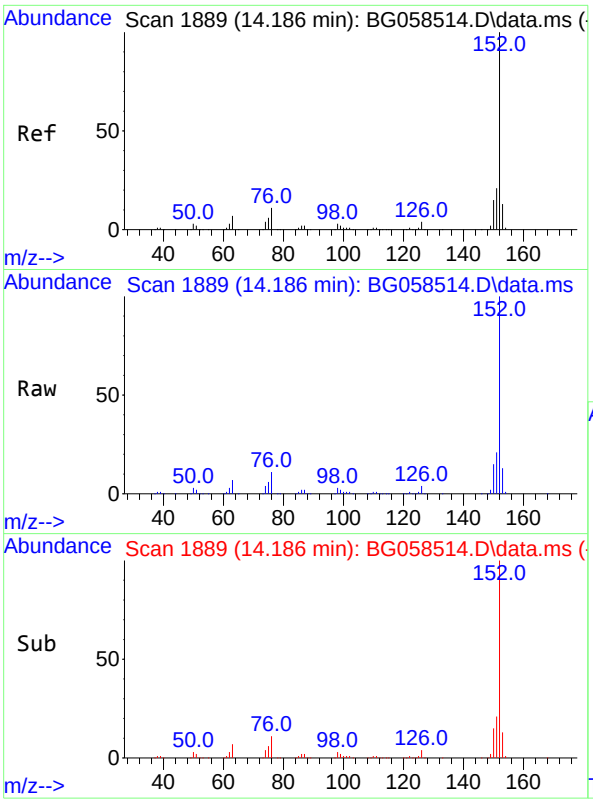


#48
2-Nitroaniline
Concen: 41.764 ng
RT: 13.546 min Scan# 1780
Delta R.T. 0.000 min
Lab File: BG058514.D
Acq: 28 Jul 2023 12:05

Tgt Ion: 65 Resp: 136470

Ion	Ratio	Lower	Upper
65	100		
92	61.5	49.2	73.8
138	89.4	71.5	107.3



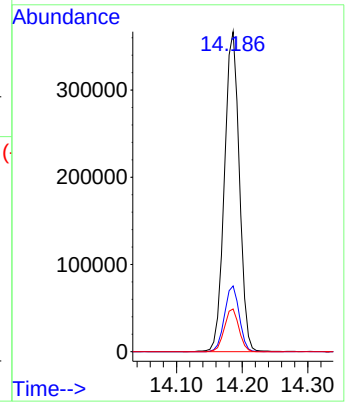


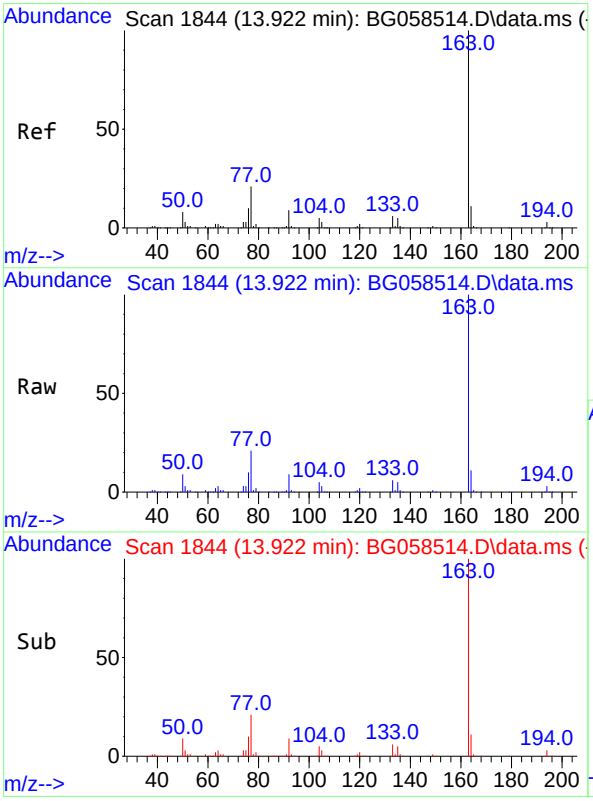
#49
Acenaphthylene
Concen: 40.203 ng
RT: 14.186 min Scan# 1
Delta R.T. 0.000 min
Lab File: BG058514.D
Acq: 28 Jul 2023 12:05

Instrument :
BNA_G
ClientSampleId :
SSTDICCC040

Tgt Ion:152 Resp: 576222

Ion	Ratio	Lower	Upper
152	100		
151	20.6	16.5	24.7
153	13.4	10.7	16.1

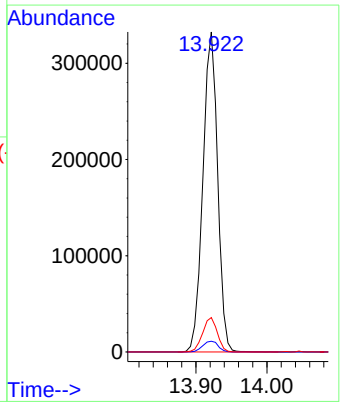


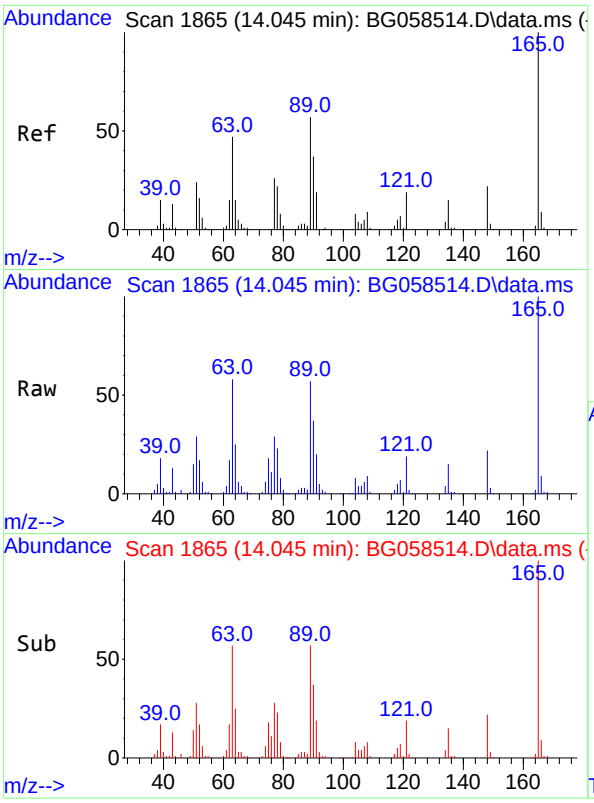


#50
Dimethylphthalate
Concen: 39.970 ng
RT: 13.922 min Scan# 1844
Delta R.T. 0.000 min
Lab File: BG058514.D
Acq: 28 Jul 2023 12:05

Tgt Ion:163 Resp: 479928

Ion	Ratio	Lower	Upper
163	100		
194	3.4	2.7	4.1
164	10.7	8.6	12.8



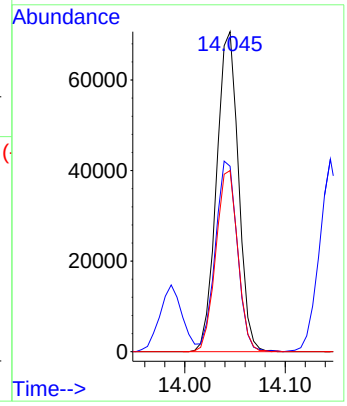


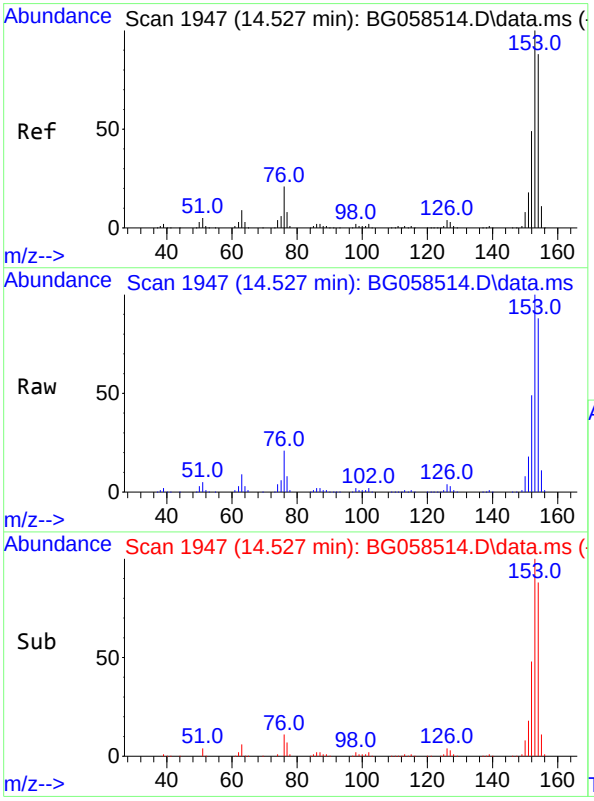
#51
2,6-Dinitrotoluene
Concen: 40.607 ng
RT: 14.045 min Scan# 1
Delta R.T. 0.000 min
Lab File: BG058514.D
Acq: 28 Jul 2023 12:05

Instrument :
BNA_G
ClientSampleId :
SSTDICCC040

Tgt Ion:165 Resp: 106984

Ion	Ratio	Lower	Upper
165	100		
63	58.0	46.4	69.6
89	56.6	45.3	67.9

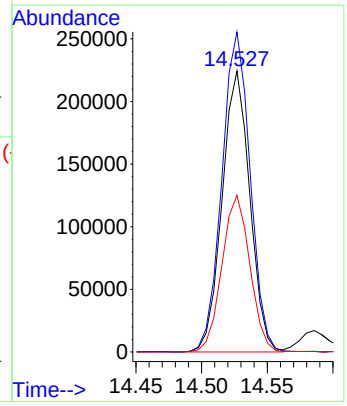


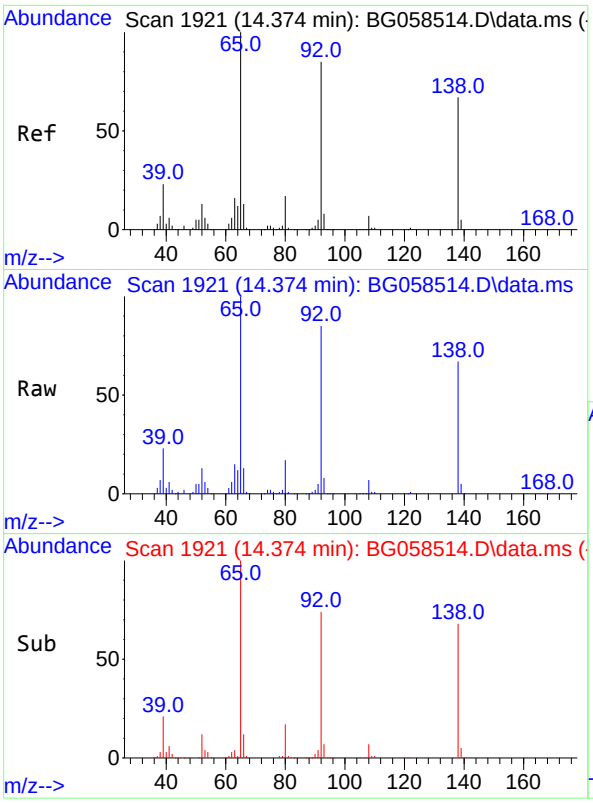


#52
Acenaphthene
Concen: 39.782 ng
RT: 14.527 min Scan# 1947
Delta R.T. 0.000 min
Lab File: BG058514.D
Acq: 28 Jul 2023 12:05

Tgt Ion:154 Resp: 329466

Ion	Ratio	Lower	Upper
154	100		
153	113.9	91.1	136.7
152	55.7	44.6	66.8



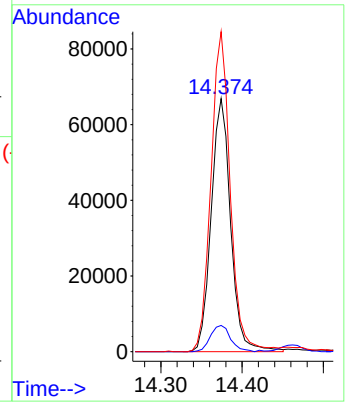


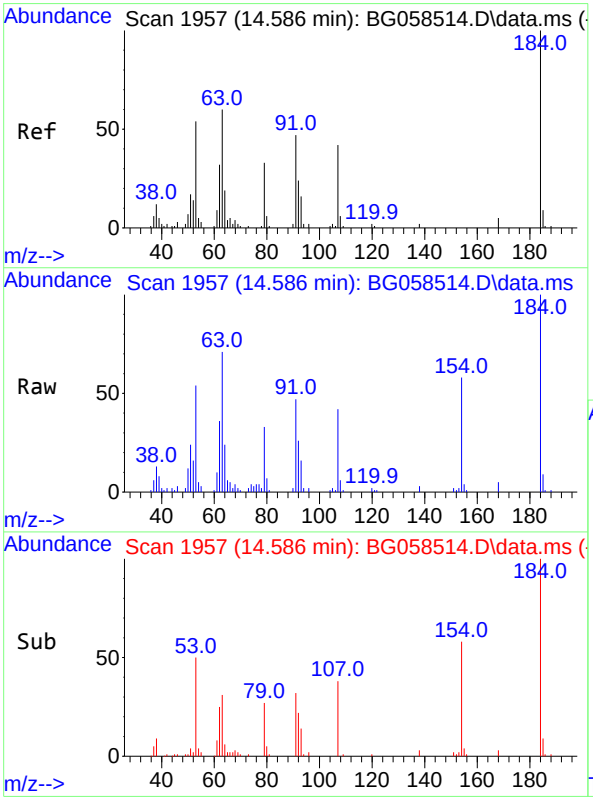
#53
3-Nitroaniline
Concen: 42.134 ng
RT: 14.374 min Scan# 1
Delta R.T. 0.000 min
Lab File: BG058514.D
Acq: 28 Jul 2023 12:05

Instrument :
BNA_G
ClientSampleId :
SSTDICCC040

Tgt Ion:138 Resp: 111063

Ion	Ratio	Lower	Upper
138	100		
108	10.4	8.3	12.5
92	126.4	101.1	151.7

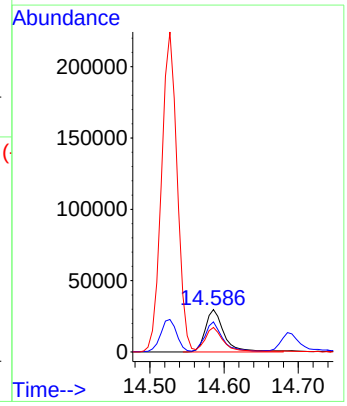


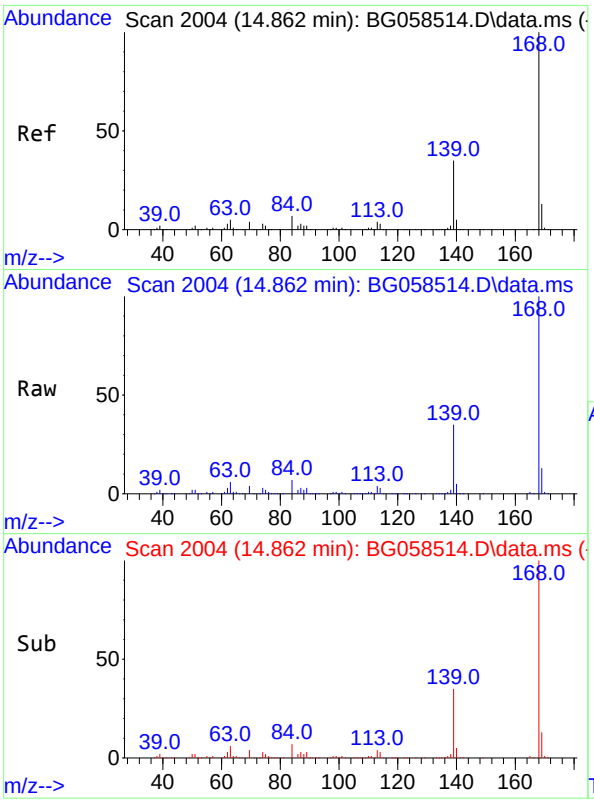


#54
2,4-Dinitrophenol
Concen: 39.412 ng
RT: 14.586 min Scan# 1957
Delta R.T. -0.000 min
Lab File: BG058514.D
Acq: 28 Jul 2023 12:05

Tgt Ion:184 Resp: 52312

Ion	Ratio	Lower	Upper
184	100		
63	70.9	56.7	85.1
154	57.6	46.1	69.1



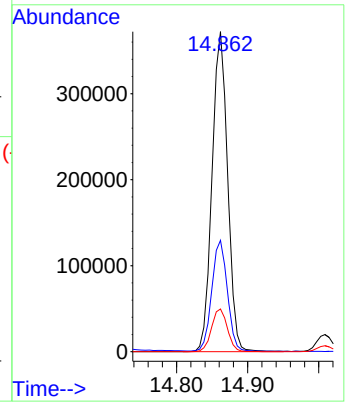


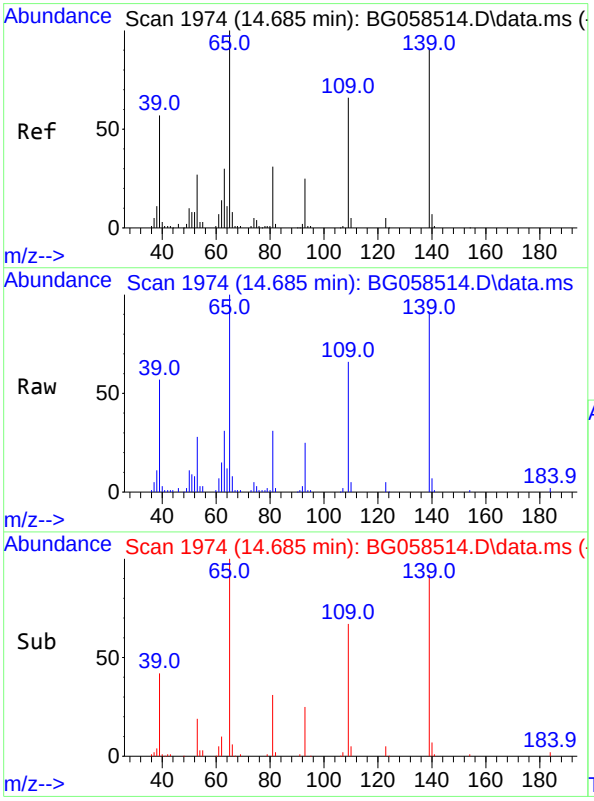
#55
Dibenzofuran
Concen: 39.837 ng
RT: 14.862 min Scan# 2
Delta R.T. 0.000 min
Lab File: BG058514.D
Acq: 28 Jul 2023 12:05

Instrument :
BNA_G
ClientSampleId :
SSTDICCC040

Tgt Ion:168 Resp: 566914

Ion	Ratio	Lower	Upper
168	100		
139	34.8	27.8	41.8
169	13.3	10.6	16.0

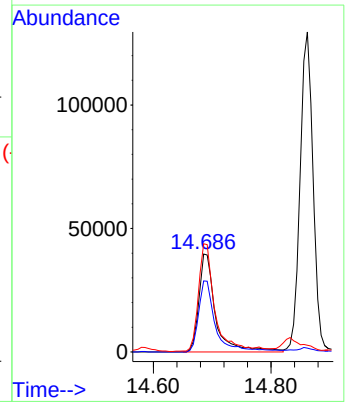


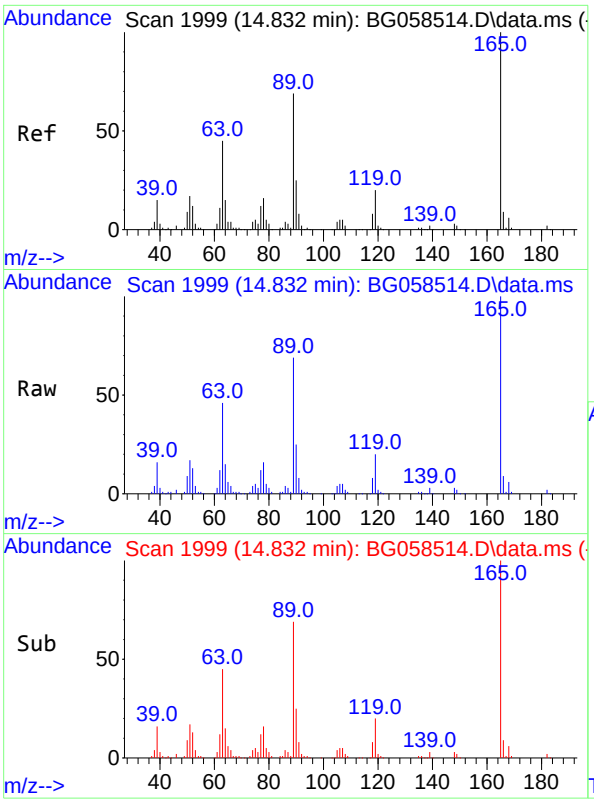


#56
4-Nitrophenol
Concen: 41.942 ng
RT: 14.685 min Scan# 1974
Delta R.T. 0.000 min
Lab File: BG058514.D
Acq: 28 Jul 2023 12:05

Tgt Ion:139 Resp: 78428

Ion	Ratio	Lower	Upper
139	100		
109	72.5	52.5	92.5
65	110.5	90.5	130.5



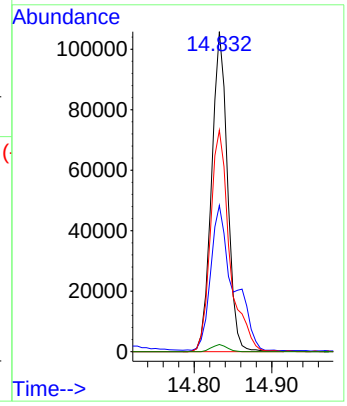


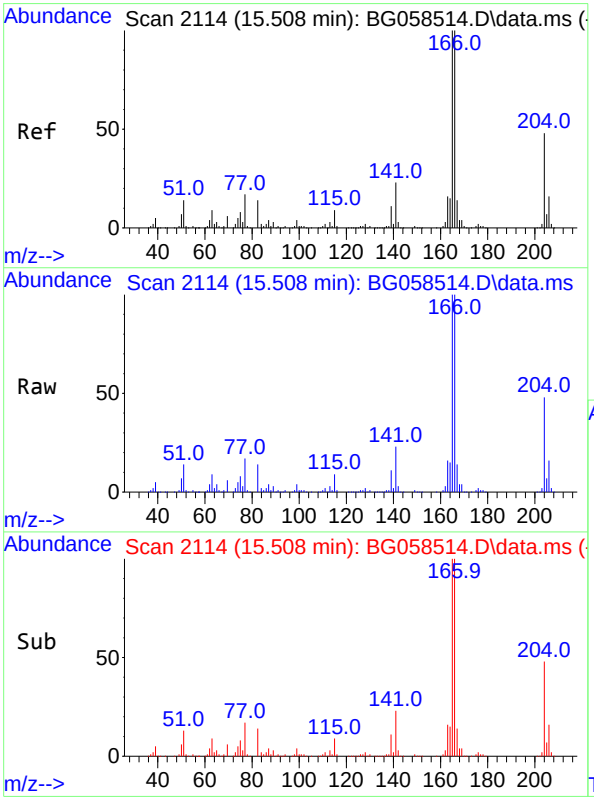
#57
2,4-Dinitrotoluene
Concen: 41.387 ng
RT: 14.832 min Scan# 1
Delta R.T. 0.000 min
Lab File: BG058514.D
Acq: 28 Jul 2023 12:05

Instrument :
BNA_G
ClientSampleId :
SSTDICCC040

Tgt Ion:165 Resp: 151170

Ion	Ratio	Lower	Upper
165	100		
63	45.7	36.6	54.8
89	69.2	55.4	83.0
182	2.2	1.8	2.6

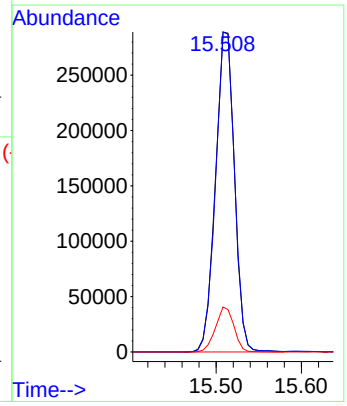


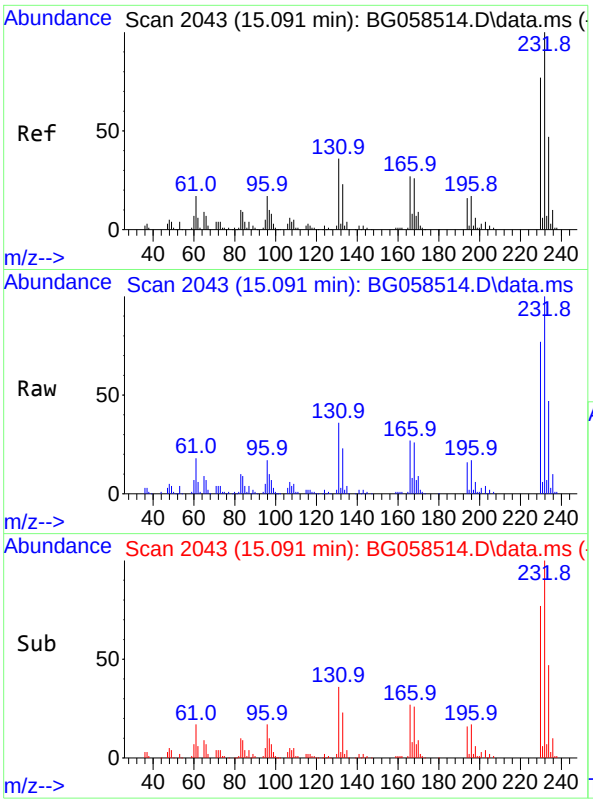


#58
Fluorene
Concen: 39.522 ng
RT: 15.508 min Scan# 2114
Delta R.T. 0.000 min
Lab File: BG058514.D
Acq: 28 Jul 2023 12:05

Tgt Ion:166 Resp: 446800

Ion	Ratio	Lower	Upper
166	100		
165	100.0	80.0	120.0
167	14.1	11.3	16.9



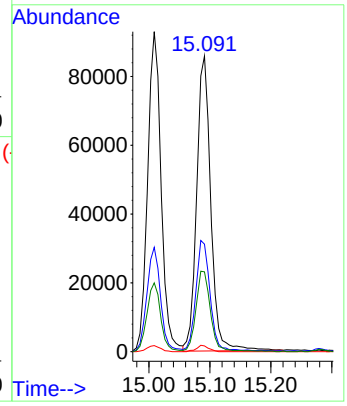


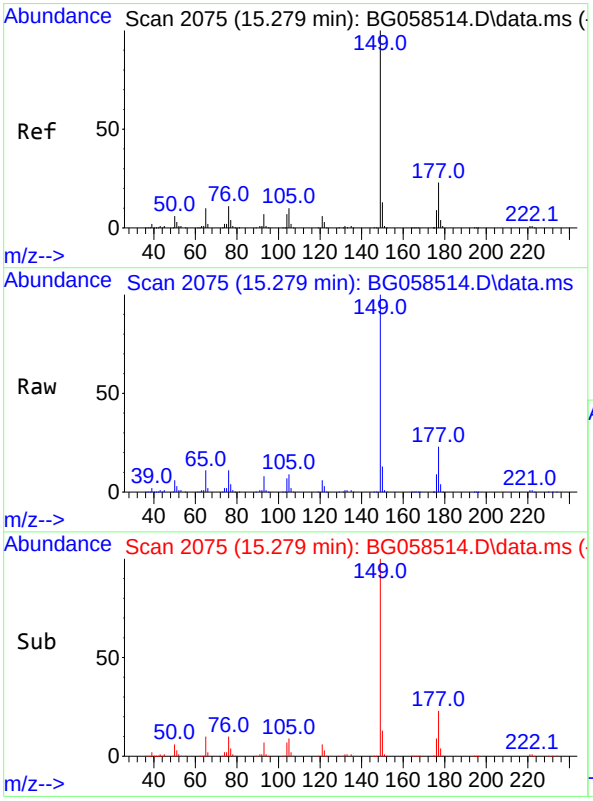
#59
2,3,4,6-Tetrachlorophenol
Concen: 40.535 ng
RT: 15.091 min Scan# 2
Delta R.T. 0.000 min
Lab File: BG058514.D
Acq: 28 Jul 2023 12:05

Instrument :
BNA_G
ClientSampleId :
SSTDICCC040

Tgt Ion:232 Resp: 137546

Ion	Ratio	Lower	Upper
232	100		
131	37.5	30.0	45.0
130	1.9	1.5	2.3
166	28.5	22.8	34.2

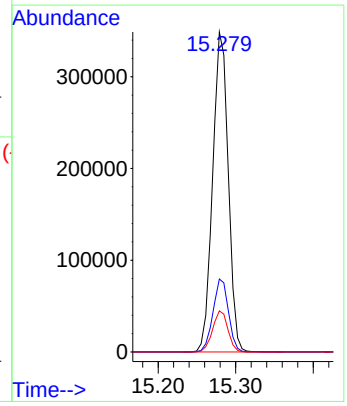


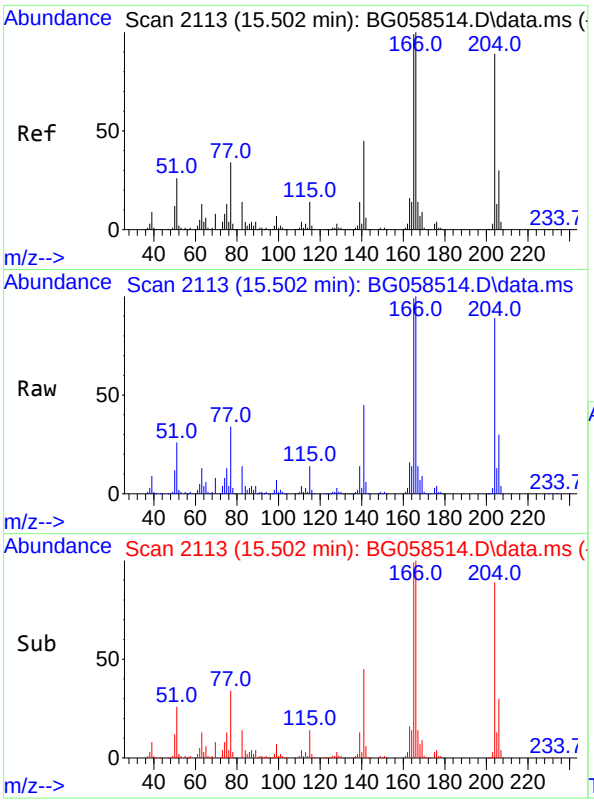


#60
Diethylphthalate
Concen: 39.921 ng
RT: 15.279 min Scan# 2075
Delta R.T. 0.000 min
Lab File: BG058514.D
Acq: 28 Jul 2023 12:05

Tgt Ion:149 Resp: 488336

Ion	Ratio	Lower	Upper
149	100		
177	22.8	18.2	27.4
150	12.8	10.2	15.4



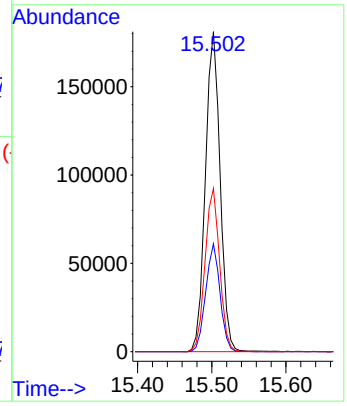


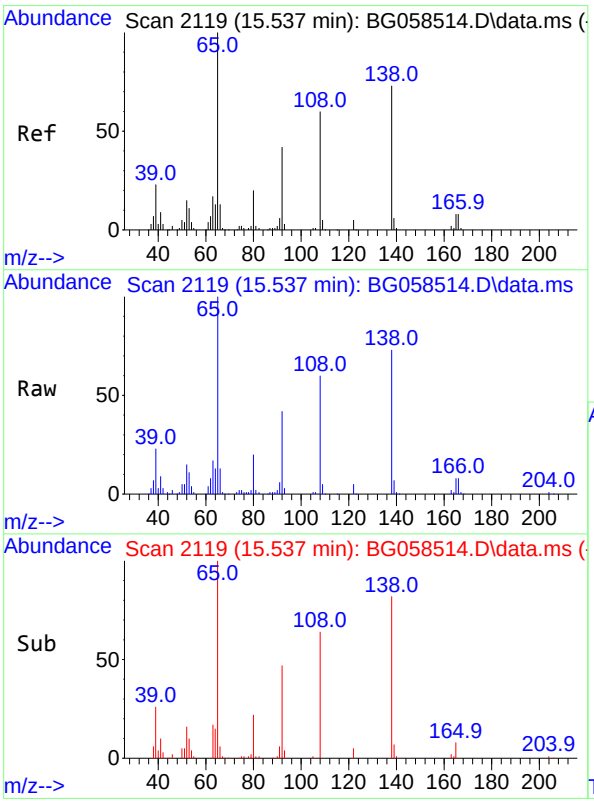
#61
4-Chlorophenyl-phenylether
Concen: 39.665 ng
RT: 15.502 min Scan# 21
Delta R.T. 0.000 min
Lab File: BG058514.D
Acq: 28 Jul 2023 12:05

Instrument :
BNA_G
ClientSampleId :
SSTDICCC040

Tgt Ion:204 Resp: 249996

Ion	Ratio	Lower	Upper
204	100		
206	33.7	27.0	40.4
141	51.0	40.8	61.2

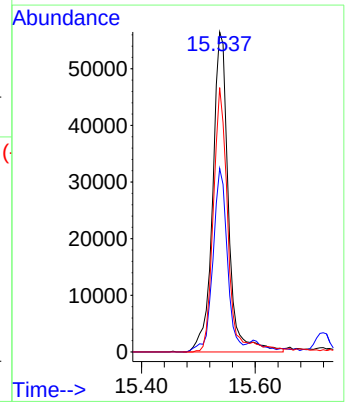


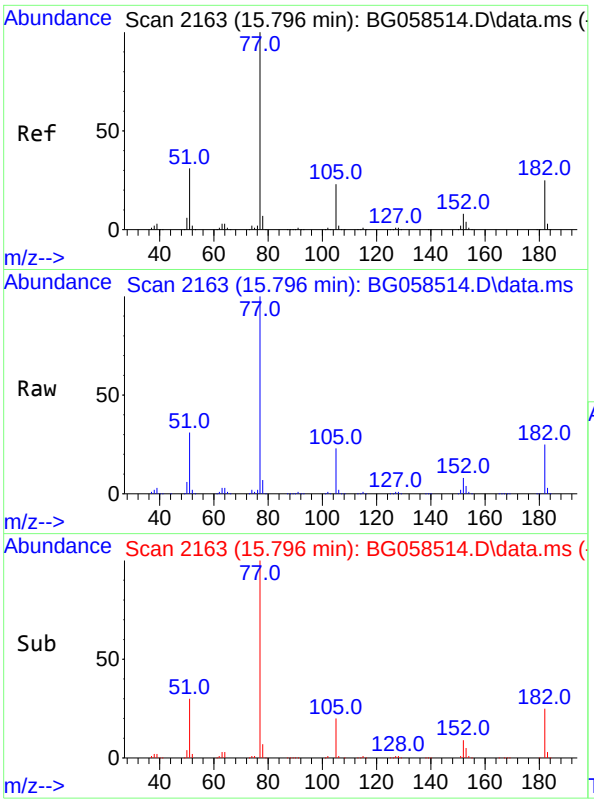


#62
4-Nitroaniline
Concen: 43.653 ng
RT: 15.537 min Scan# 2119
Delta R.T. 0.000 min
Lab File: BG058514.D
Acq: 28 Jul 2023 12:05

Tgt Ion:138 Resp: 108140

Ion	Ratio	Lower	Upper
138	100		
92	57.3	37.3	77.3
108	82.6	62.6	102.6



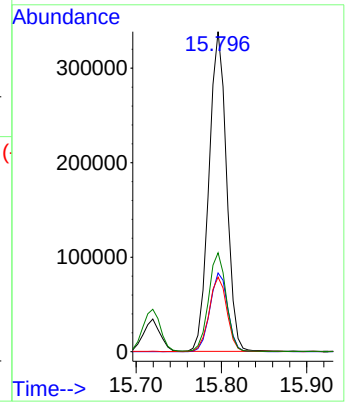


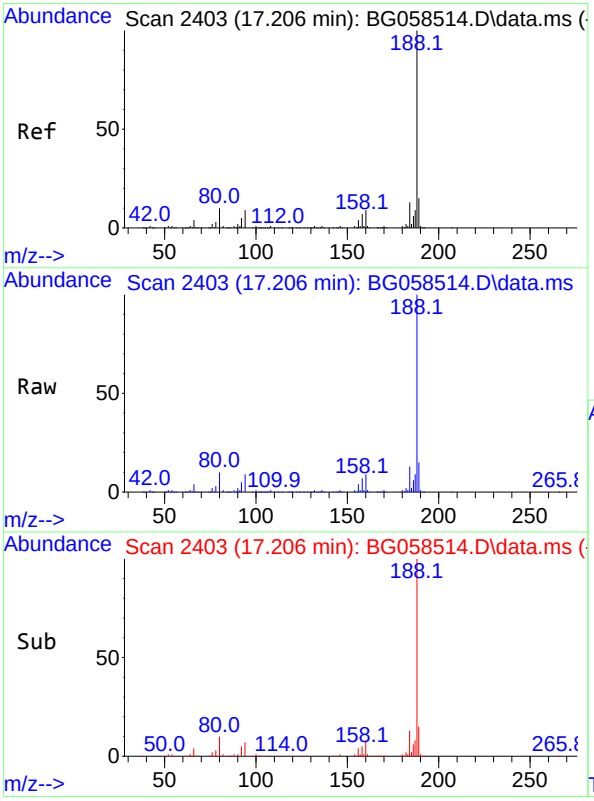
#63
Azobenzene
Concen: 40.211 ng
RT: 15.796 min Scan# 21
Delta R.T. 0.000 min
Lab File: BG058514.D
Acq: 28 Jul 2023 12:05

Instrument :
BNA_G
ClientSampleId :
SSTDICCC040

Tgt Ion: 77 Resp: 484483

Ion	Ratio	Lower	Upper
77	100		
182	24.6	4.6	44.6
105	23.3	3.3	43.3
51	30.9	10.9	50.9

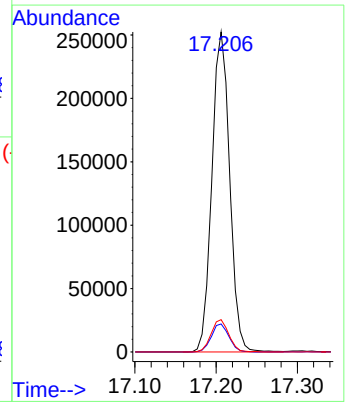


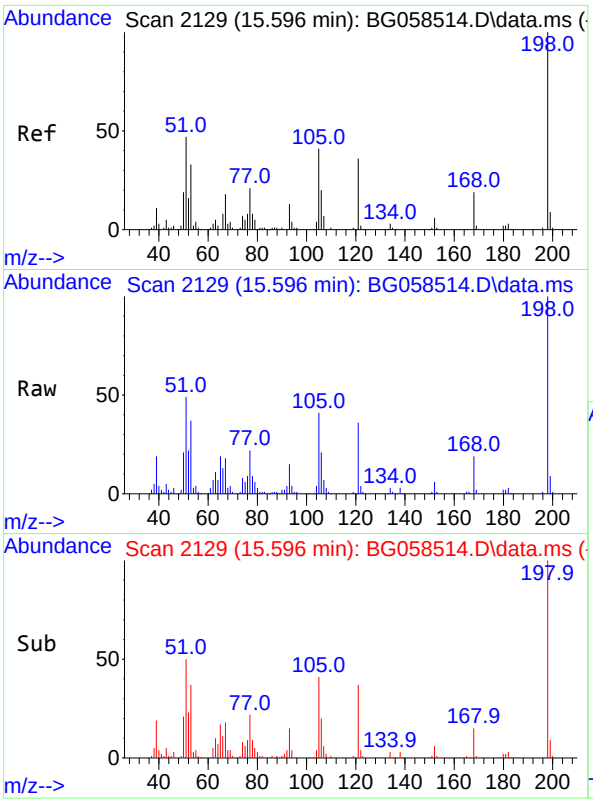


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.206 min Scan# 2403
Delta R.T. 0.000 min
Lab File: BG058514.D
Acq: 28 Jul 2023 12:05

Tgt Ion:188 Resp: 383110

Ion	Ratio	Lower	Upper
188	100		
94	8.8	7.0	10.6
80	10.1	8.1	12.1



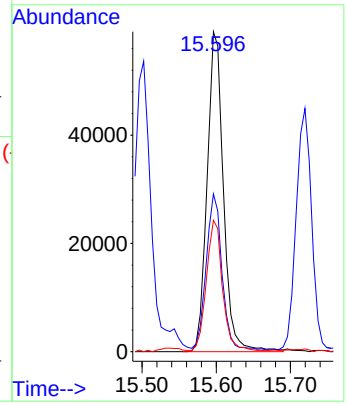


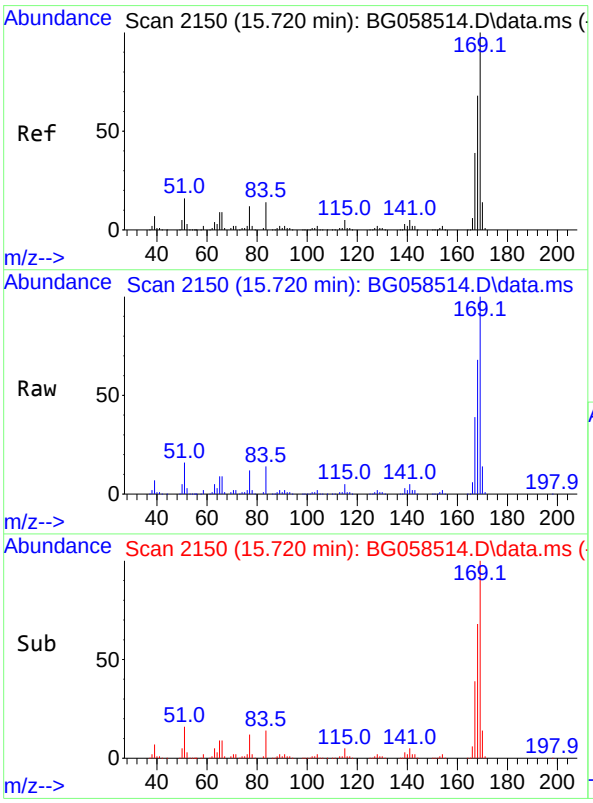
#65
4,6-Dinitro-2-methylphenol
Concen: 42.834 ng
RT: 15.596 min Scan# 21
Delta R.T. 0.000 min
Lab File: BG058514.D
Acq: 28 Jul 2023 12:05

Instrument :
BNA_G
ClientSampleId :
SSTDICCC040

Tgt Ion:198 Resp: 90484

Ion	Ratio	Lower	Upper
198	100		
51	49.3	29.3	69.3
105	41.0	21.0	61.0

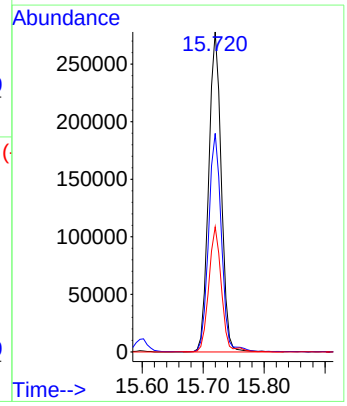


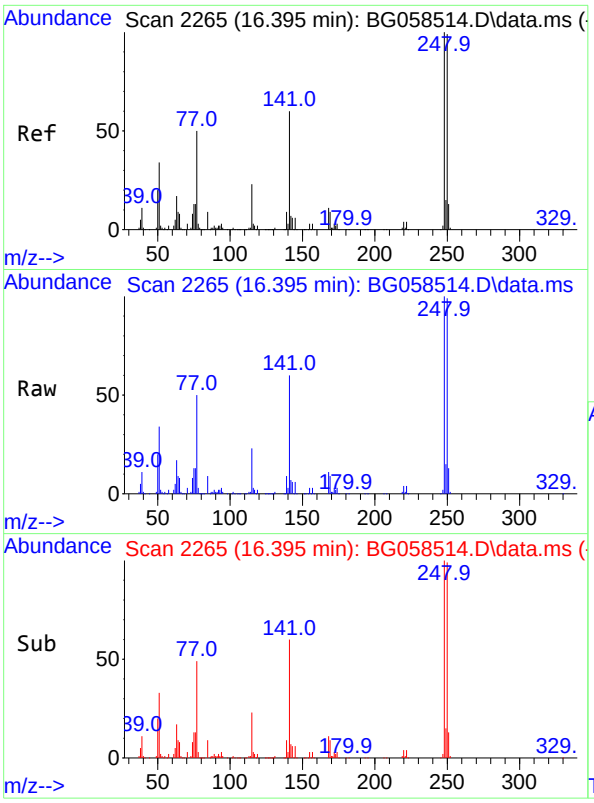


#66
n-Nitrosodiphenylamine
Concen: 40.105 ng
RT: 15.720 min Scan# 2150
Delta R.T. 0.000 min
Lab File: BG058514.D
Acq: 28 Jul 2023 12:05

Tgt Ion:169 Resp: 399900

Ion	Ratio	Lower	Upper
169	100		
168	68.3	54.6	82.0
167	39.1	31.3	46.9



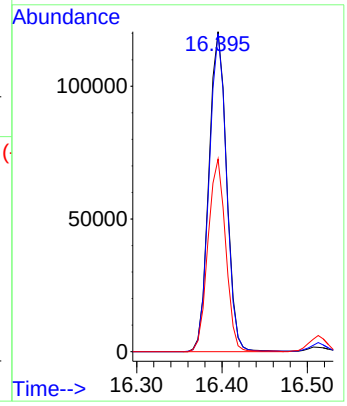


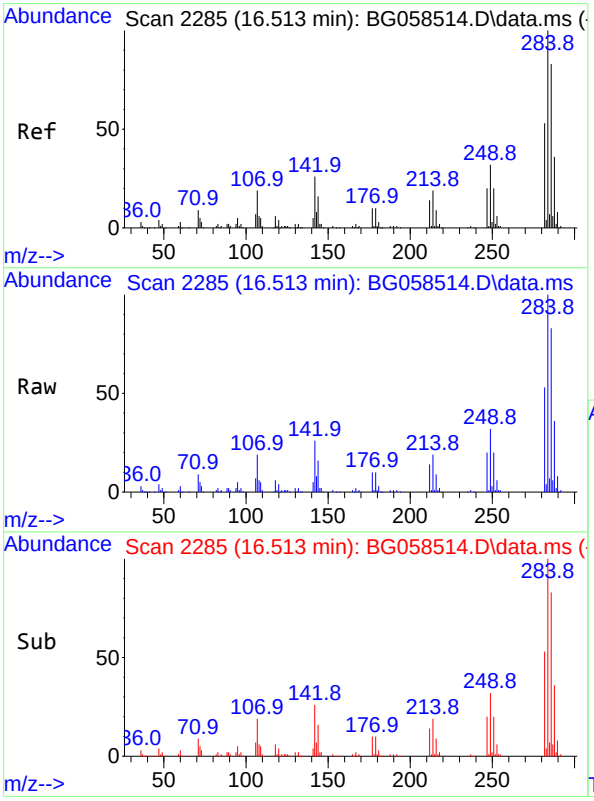
#67
4-Bromophenyl-phenylether
Concen: 40.068 ng
RT: 16.395 min Scan# 2
Delta R.T. 0.000 min
Lab File: BG058514.D
Acq: 28 Jul 2023 12:05

Instrument :
BNA_G
ClientSampleId :
SSTDICCC040

Tgt Ion:248 Resp: 174105

Ion	Ratio	Lower	Upper
248	100		
250	99.4	79.5	119.3
141	60.2	48.2	72.2

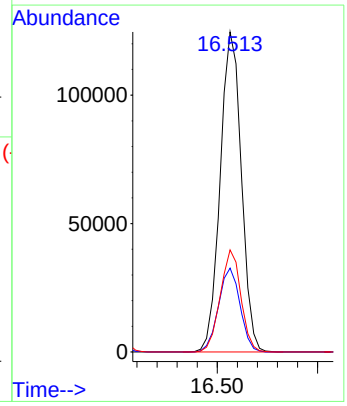


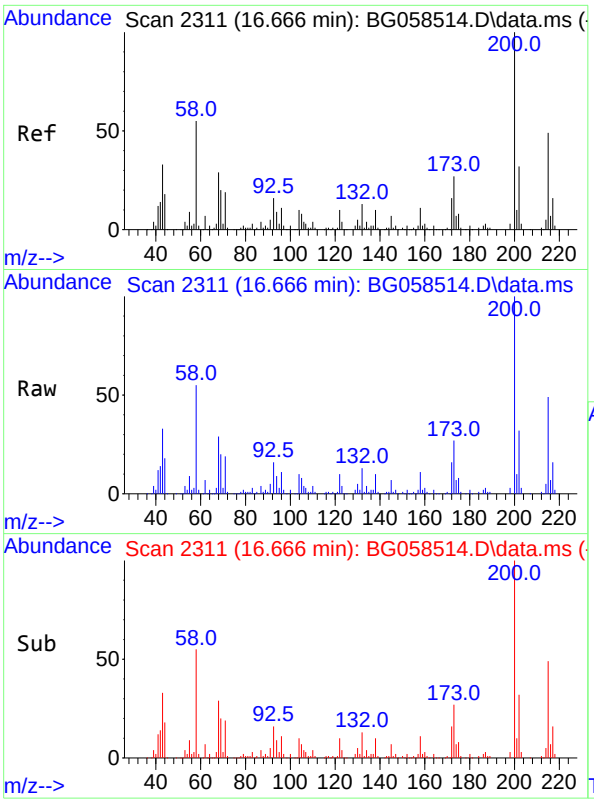


#68
Hexachlorobenzene
Concen: 39.534 ng
RT: 16.513 min Scan# 2285
Delta R.T. 0.000 min
Lab File: BG058514.D
Acq: 28 Jul 2023 12:05

Tgt Ion:284 Resp: 182033

Ion	Ratio	Lower	Upper
284	100		
142	26.2	21.0	31.4
249	31.9	25.5	38.3



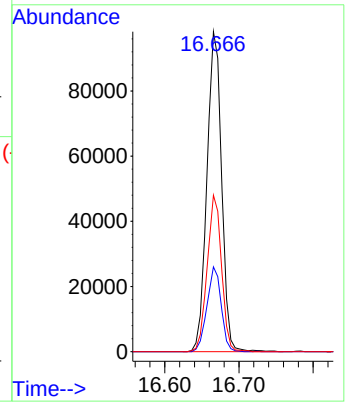


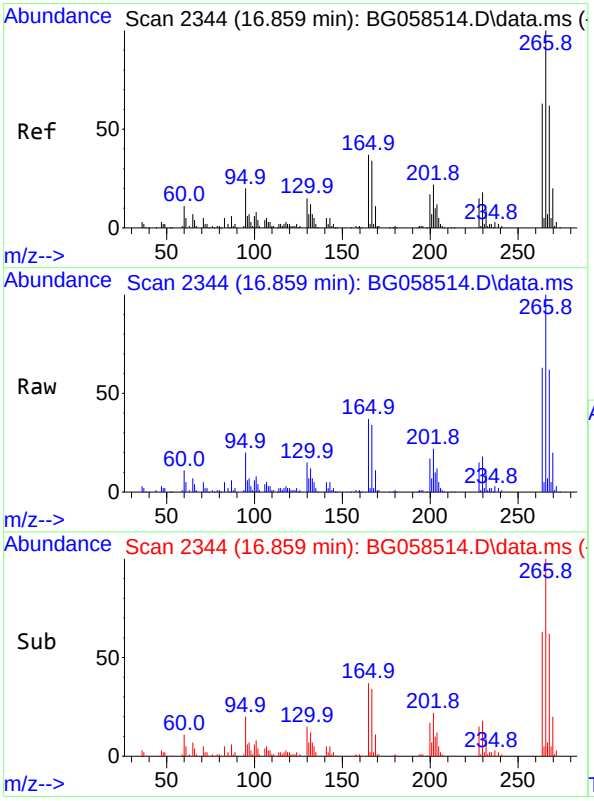
#69
Atrazine
Concen: 40.130 ng
RT: 16.666 min Scan# 2
Delta R.T. 0.000 min
Lab File: BG058514.D
Acq: 28 Jul 2023 12:05

Instrument :
BNA_G
ClientSampleId :
SSTDICCC040

Tgt Ion:200 Resp: 135081

Ion	Ratio	Lower	Upper
200	100		
173	26.5	6.5	46.5
215	48.9	28.9	68.9

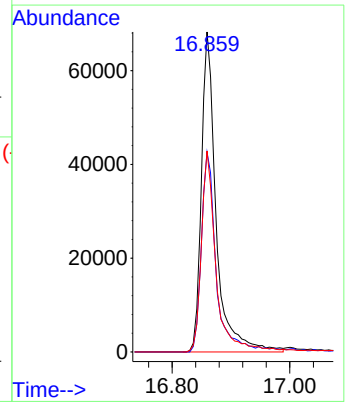


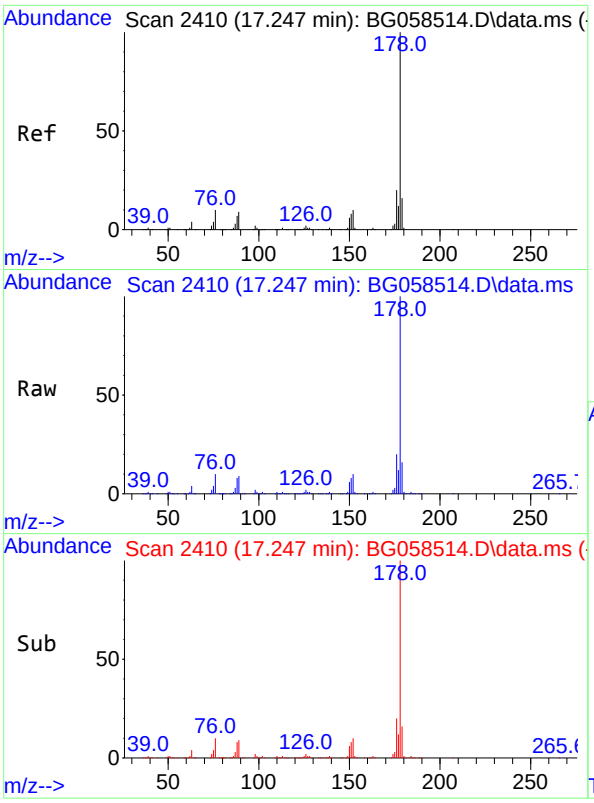


#70
Pentachlorophenol
Concen: 42.812 ng
RT: 16.859 min Scan# 2344
Delta R.T. 0.000 min
Lab File: BG058514.D
Acq: 28 Jul 2023 12:05

Tgt Ion:266 Resp: 118786

Ion	Ratio	Lower	Upper
266	100		
268	62.4	49.9	74.9
264	62.8	50.2	75.4



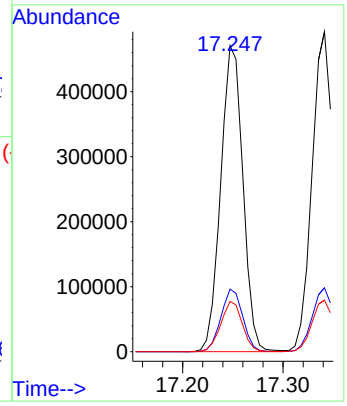


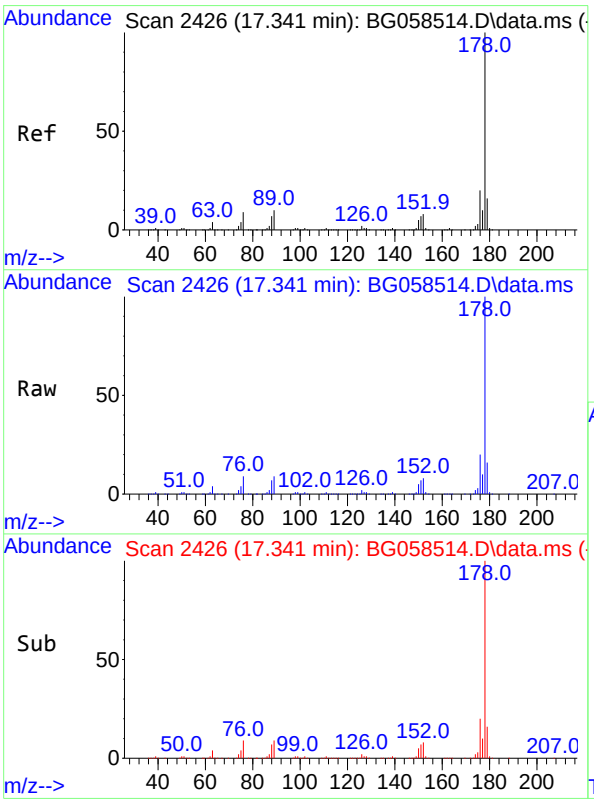
#71
Phenanthrene
Concen: 39.785 ng
RT: 17.247 min Scan# 24
Delta R.T. 0.000 min
Lab File: BG058514.D
Acq: 28 Jul 2023 12:05

Instrument :
BNA_G
ClientSampleId :
SSTDICCC040

Tgt Ion:178 Resp: 722837

Ion	Ratio	Lower	Upper
178	100		
176	20.4	16.3	24.5
179	16.4	13.1	19.7

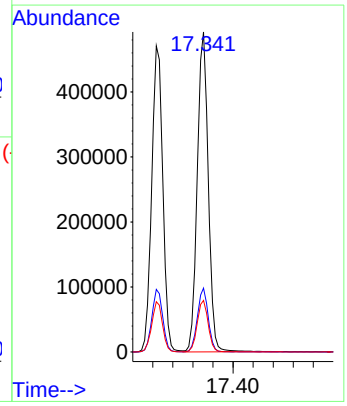


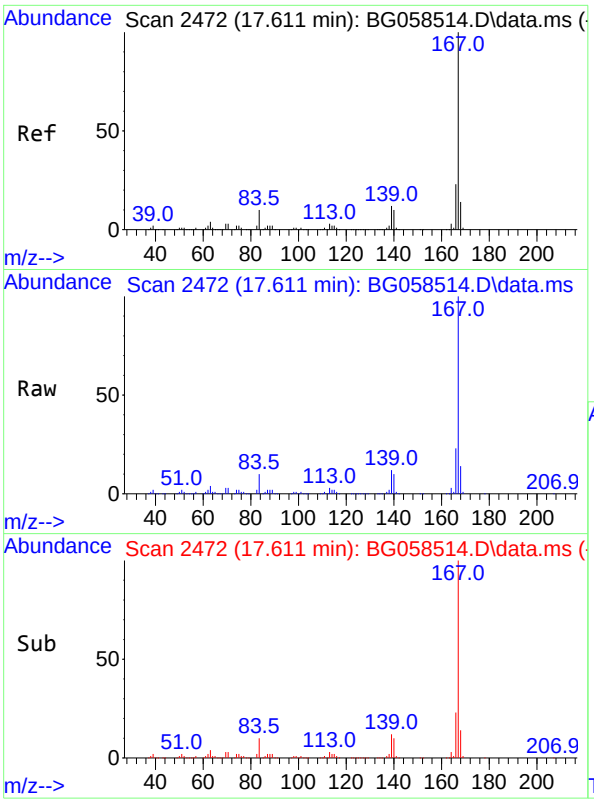


#72
Anthracene
Concen: 40.056 ng
RT: 17.341 min Scan# 2426
Delta R.T. 0.000 min
Lab File: BG058514.D
Acq: 28 Jul 2023 12:05

Tgt Ion:178 Resp: 746740

Ion	Ratio	Lower	Upper
178	100		
176	20.0	16.0	24.0
179	16.1	12.9	19.3



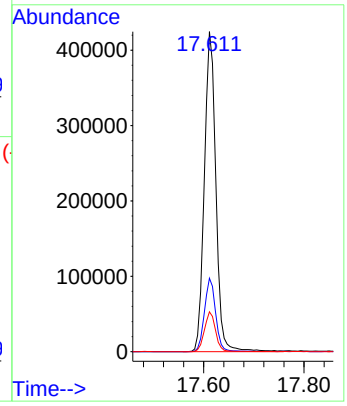


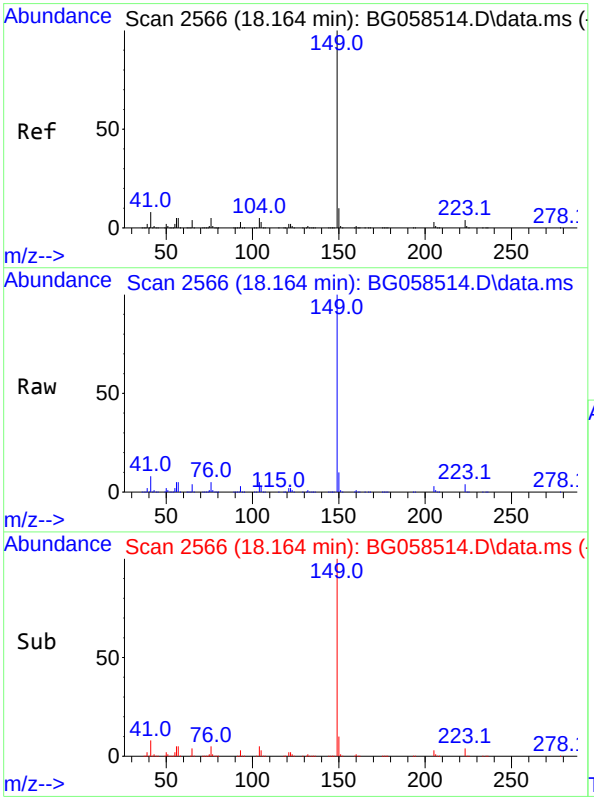
#73
Carbazole
Concen: 41.230 ng
RT: 17.611 min Scan# 24
Delta R.T. 0.000 min
Lab File: BG058514.D
Acq: 28 Jul 2023 12:05

Instrument :
BNA_G
ClientSampleId :
SSTDICCC040

Tgt Ion:167 Resp: 677802

Ion	Ratio	Lower	Upper
167	100		
166	23.0	18.4	27.6
139	12.5	10.0	15.0

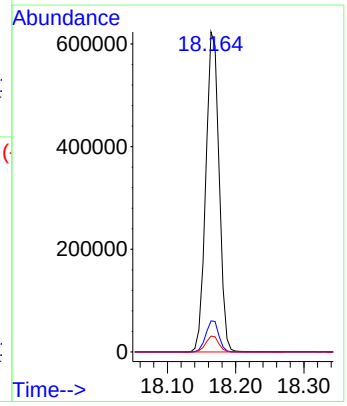


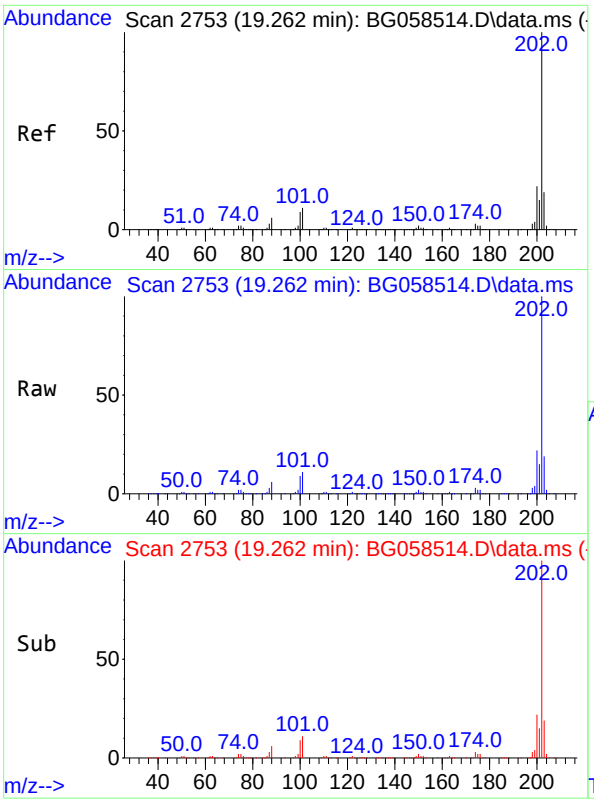


#74
Di-n-butylphthalate
Concen: 40.848 ng
RT: 18.164 min Scan# 2566
Delta R.T. 0.000 min
Lab File: BG058514.D
Acq: 28 Jul 2023 12:05

Tgt Ion:149 Resp: 841106

Ion	Ratio	Lower	Upper
149	100		
150	9.7	7.8	11.6
104	5.0	4.0	6.0



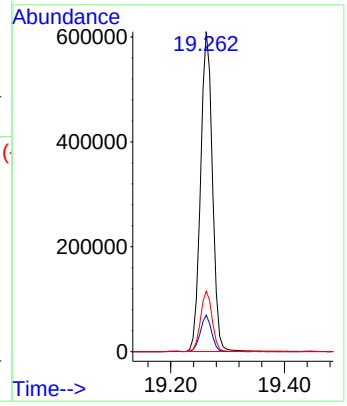


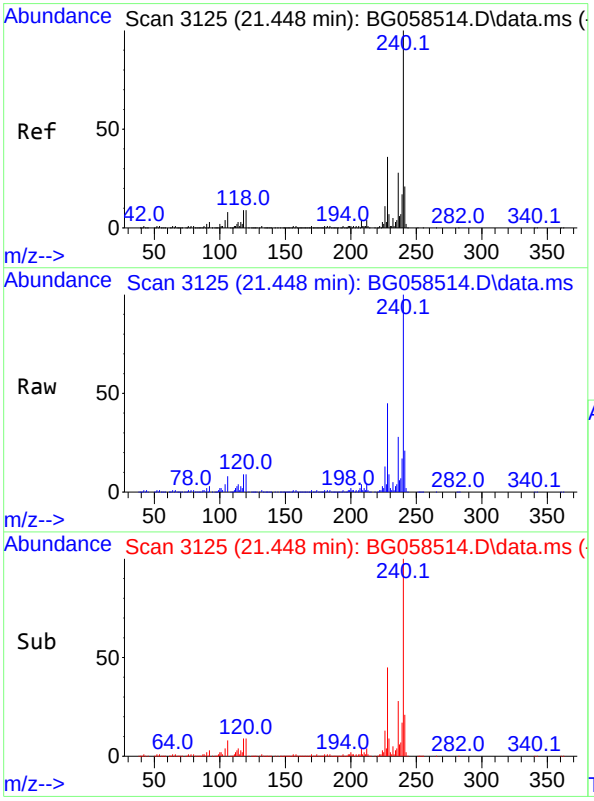
#75
Fluoranthene
Concen: 40.589 ng
RT: 19.262 min Scan# 2
Delta R.T. 0.000 min
Lab File: BG058514.D
Acq: 28 Jul 2023 12:05

Instrument :
BNA_G
ClientSampleId :
SSTDICCC040

Tgt Ion:202 Resp: 885841

Ion	Ratio	Lower	Upper
202	100		
101	11.4	0.0	31.4
203	19.0	0.0	39.0

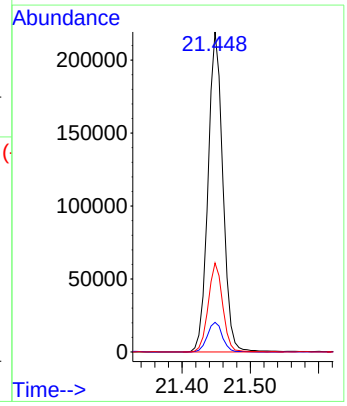


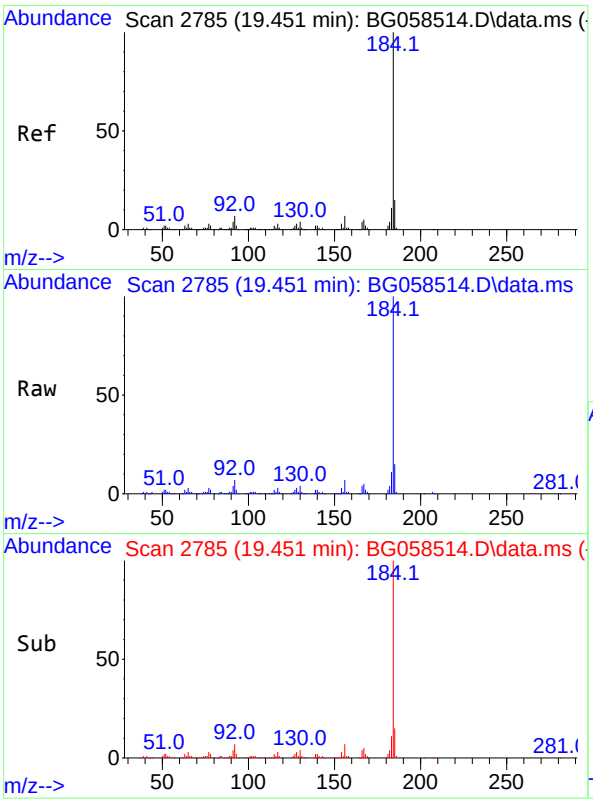


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.448 min Scan# 3125
Delta R.T. 0.000 min
Lab File: BG058514.D
Acq: 28 Jul 2023 12:05

Tgt Ion:240 Resp: 331305

Ion	Ratio	Lower	Upper
240	100		
120	9.2	7.4	11.0
236	27.8	22.2	33.4



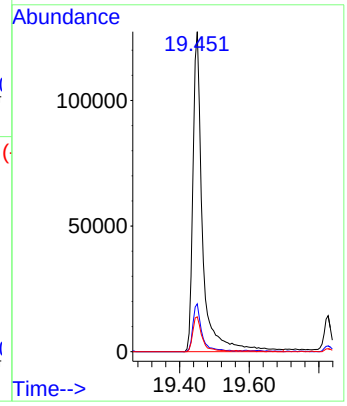


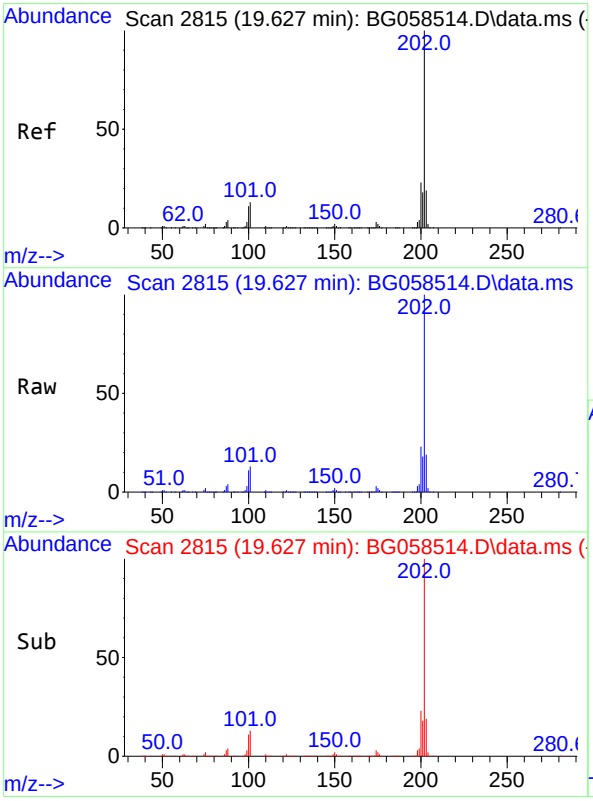
#77
Benzidine
Concen: 48.806 ng
RT: 19.451 min Scan# 2
Delta R.T. 0.000 min
Lab File: BG058514.D
Acq: 28 Jul 2023 12:05

Instrument :
BNA_G
ClientSampleId :
SSTDICCC040

Tgt Ion:184 Resp: 245199

Ion	Ratio	Lower	Upper
184	100		
185	14.9	11.9	17.9
183	10.9	8.7	13.1

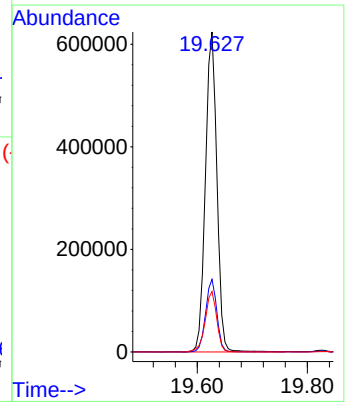


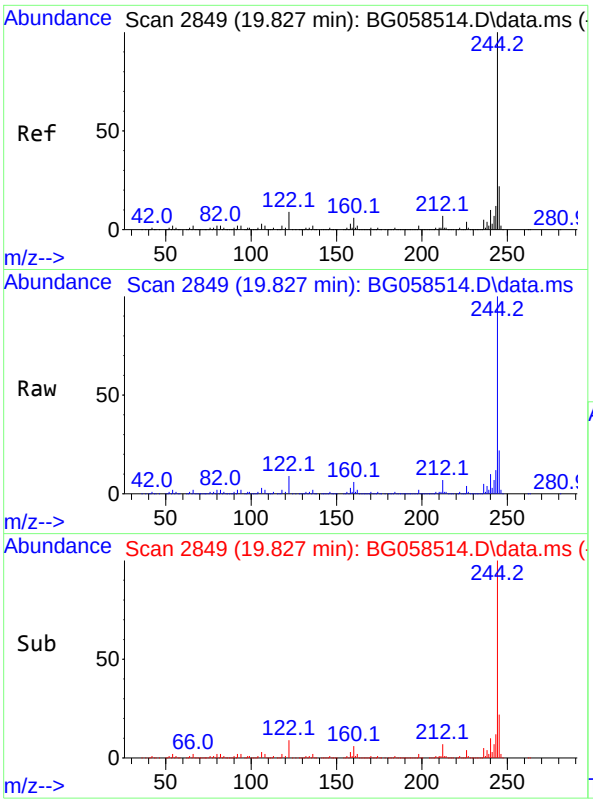


#78
Pyrene
Concen: 40.039 ng
RT: 19.627 min Scan# 2815
Delta R.T. 0.000 min
Lab File: BG058514.D
Acq: 28 Jul 2023 12:05

Tgt Ion:202 Resp: 902774

Ion	Ratio	Lower	Upper
202	100		
200	22.7	18.2	27.2
203	18.9	15.1	22.7



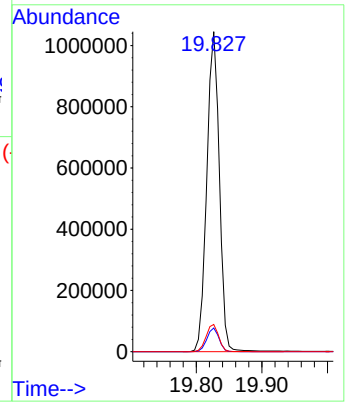


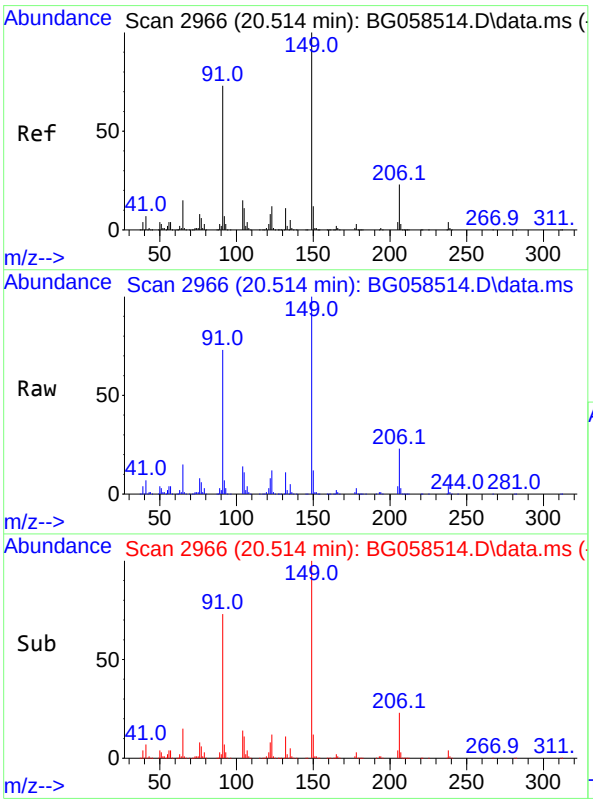
#79
Terphenyl-d14
Concen: 79.092 ng
RT: 19.827 min Scan# 2
Delta R.T. 0.000 min
Lab File: BG058514.D
Acq: 28 Jul 2023 12:05

Instrument :
BNA_G
ClientSampleId :
SSTDICCC040

Tgt Ion:244 Resp: 1393408

Ion	Ratio	Lower	Upper
244	100		
212	7.4	5.9	8.9
122	8.5	6.8	10.2

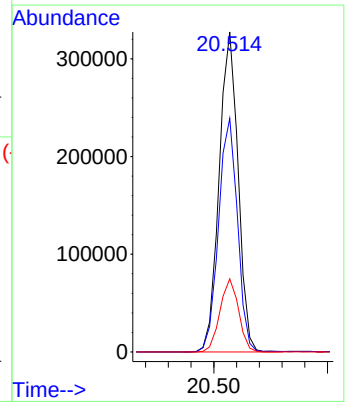


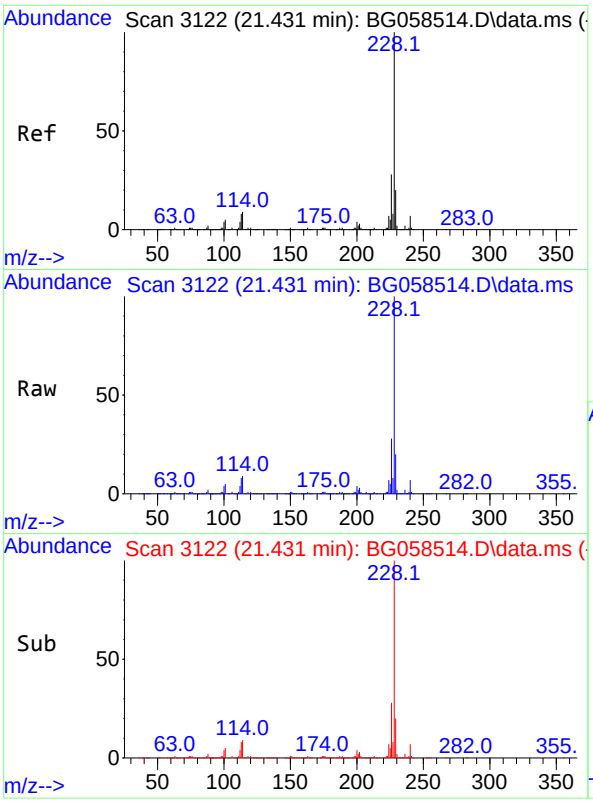


#80
Butylbenzylphthalate
Concen: 40.838 ng
RT: 20.514 min Scan# 2966
Delta R.T. 0.000 min
Lab File: BG058514.D
Acq: 28 Jul 2023 12:05

Tgt Ion:149 Resp: 378216

Ion	Ratio	Lower	Upper
149	100		
91	73.0	58.4	87.6
206	22.9	18.3	27.5



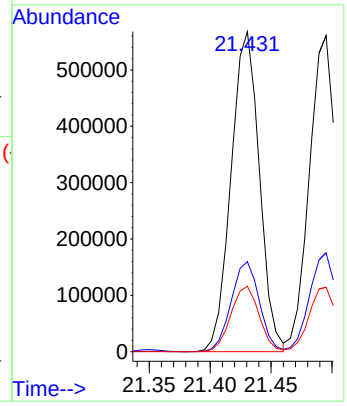


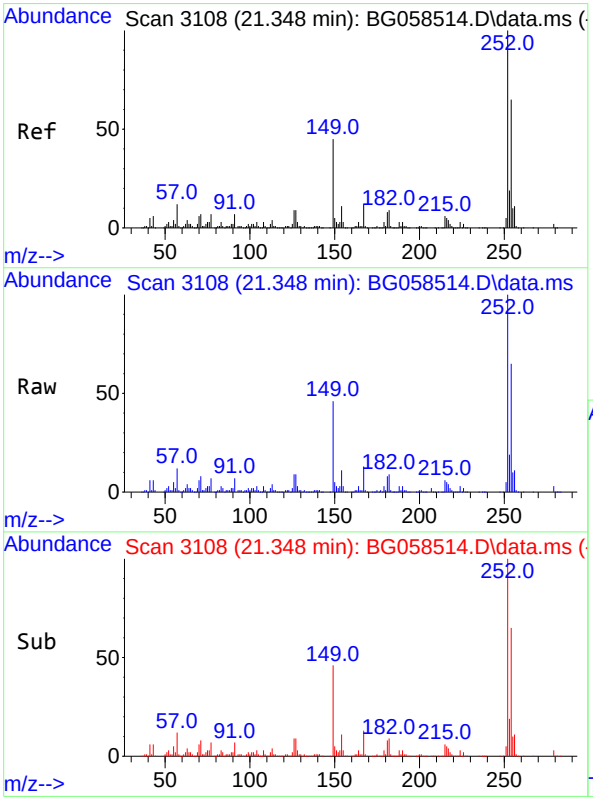
#81
Benzo(a)anthracene
Concen: 40.275 ng
RT: 21.431 min Scan# 3
Delta R.T. 0.000 min
Lab File: BG058514.D
Acq: 28 Jul 2023 12:05

Instrument :
BNA_G
ClientSampleId :
SSTDICCC040

Tgt Ion:228 Resp: 918265

Ion	Ratio	Lower	Upper
228	100		
226	28.2	22.6	33.8
229	20.4	16.3	24.5

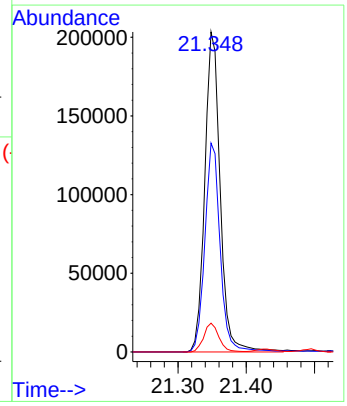


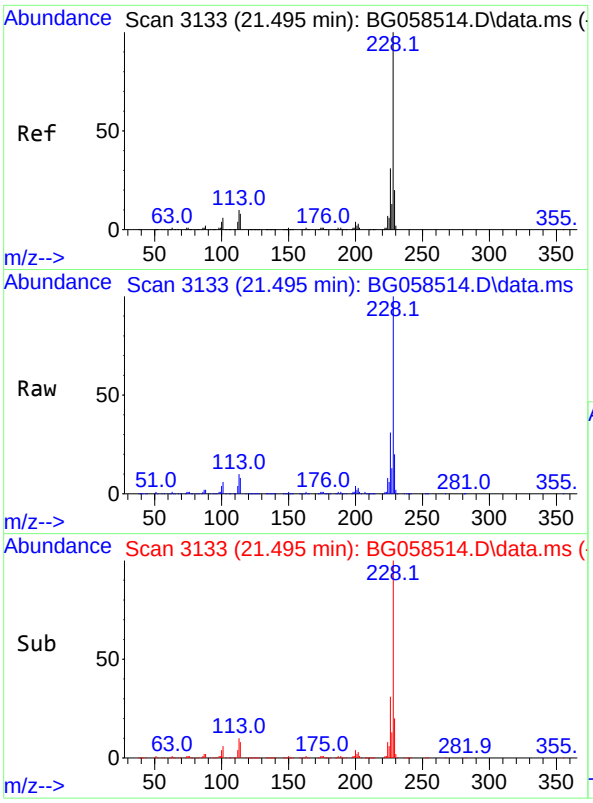


#82
3,3'-Dichlorobenzidine
Concen: 41.315 ng
RT: 21.348 min Scan# 3108
Delta R.T. 0.000 min
Lab File: BG058514.D
Acq: 28 Jul 2023 12:05

Tgt Ion:252 Resp: 318496

Ion	Ratio	Lower	Upper
252	100		
254	65.3	52.2	78.4
126	9.0	7.2	10.8



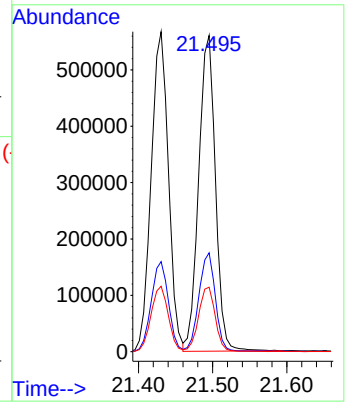


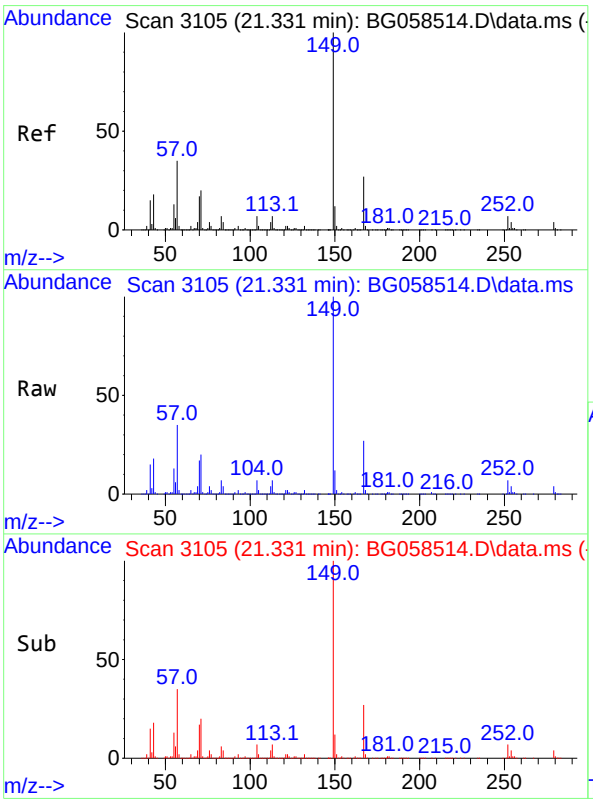
#83
Chrysene
Concen: 40.172 ng
RT: 21.495 min Scan# 3
Delta R.T. 0.000 min
Lab File: BG058514.D
Acq: 28 Jul 2023 12:05

Instrument :
BNA_G
ClientSampleId :
SSTDICCC040

Tgt Ion:228 Resp: 878178

Ion	Ratio	Lower	Upper
228	100		
226	31.3	25.0	37.6
229	20.4	16.3	24.5

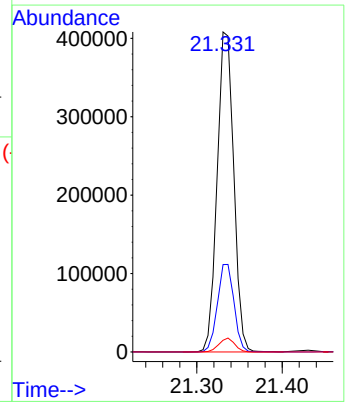


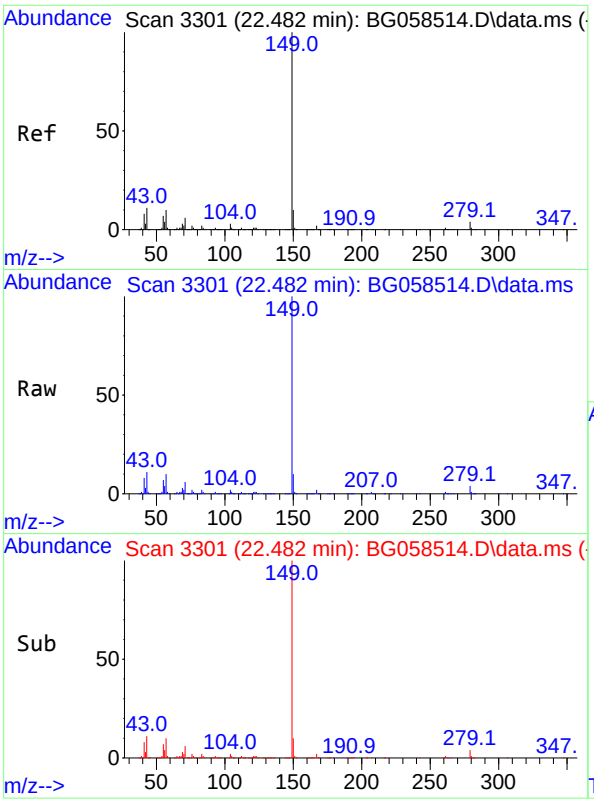


#84
Bis(2-ethylhexyl)phthalate
Concen: 40.765 ng
RT: 21.331 min Scan# 3105
Delta R.T. 0.000 min
Lab File: BG058514.D
Acq: 28 Jul 2023 12:05

Tgt Ion:149 Resp: 551711

Ion	Ratio	Lower	Upper
149	100		
167	27.3	21.8	32.8
279	3.6	2.9	4.3



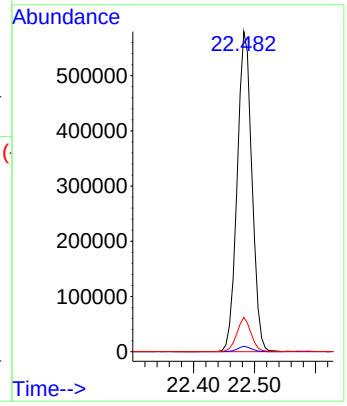


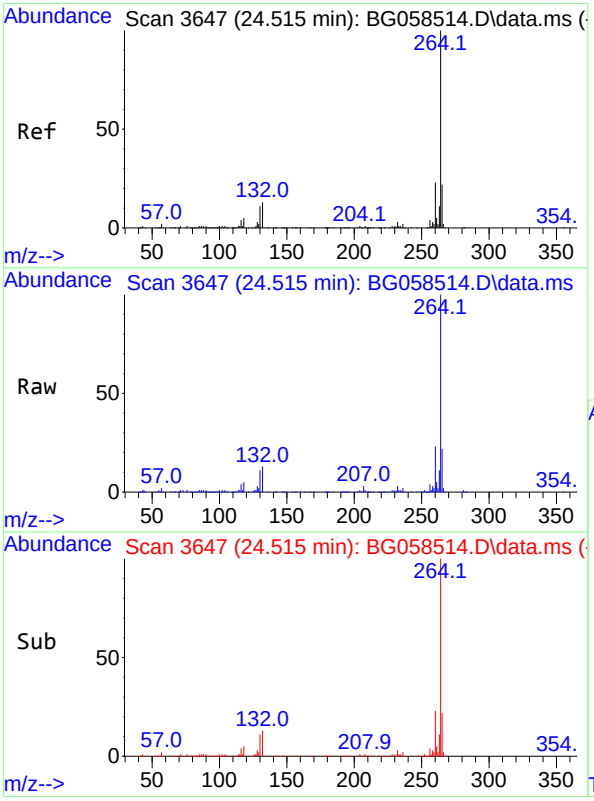
#85
Di-n-octyl phthalate
Concen: 40.866 ng
RT: 22.482 min Scan# 3
Delta R.T. 0.000 min
Lab File: BG058514.D
Acq: 28 Jul 2023 12:05

Instrument :
BNA_G
ClientSampleId :
SSTDICCC040

Tgt Ion:149 Resp: 972377

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	10.2	8.2	12.2

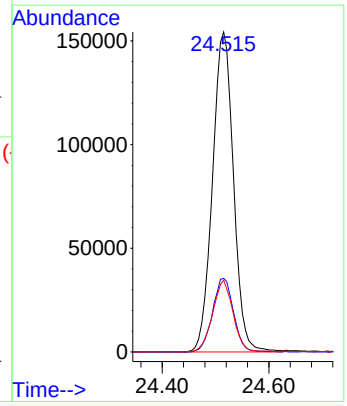


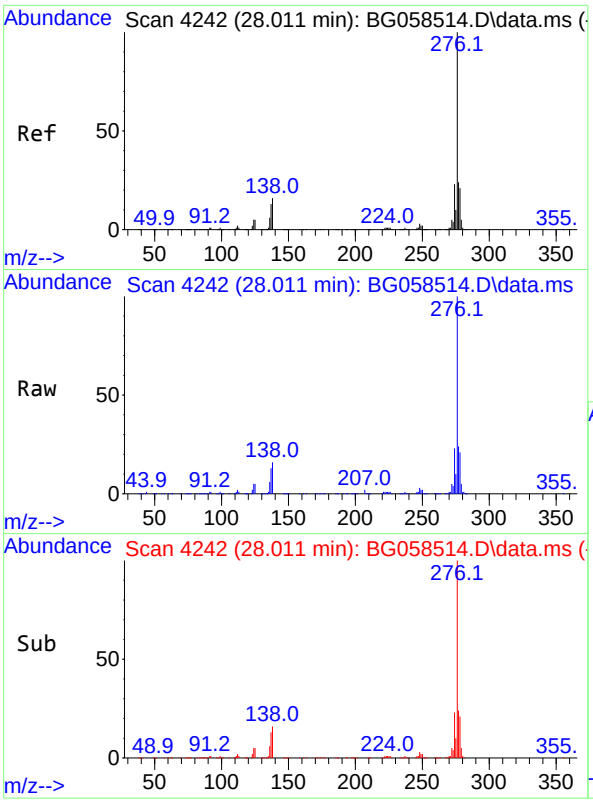


#86
Perylene-d12
Concen: 20.000 ng
RT: 24.515 min Scan# 3647
Delta R.T. 0.000 min
Lab File: BG058514.D
Acq: 28 Jul 2023 12:05

Tgt Ion:264 Resp: 421901

Ion	Ratio	Lower	Upper
264	100		
260	23.0	18.4	27.6
265	22.4	17.9	26.9



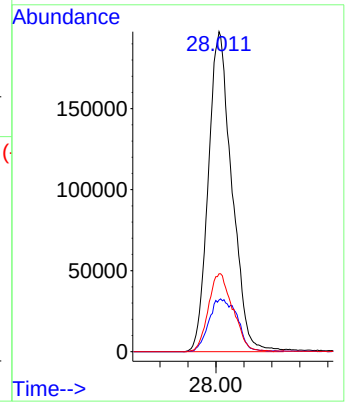


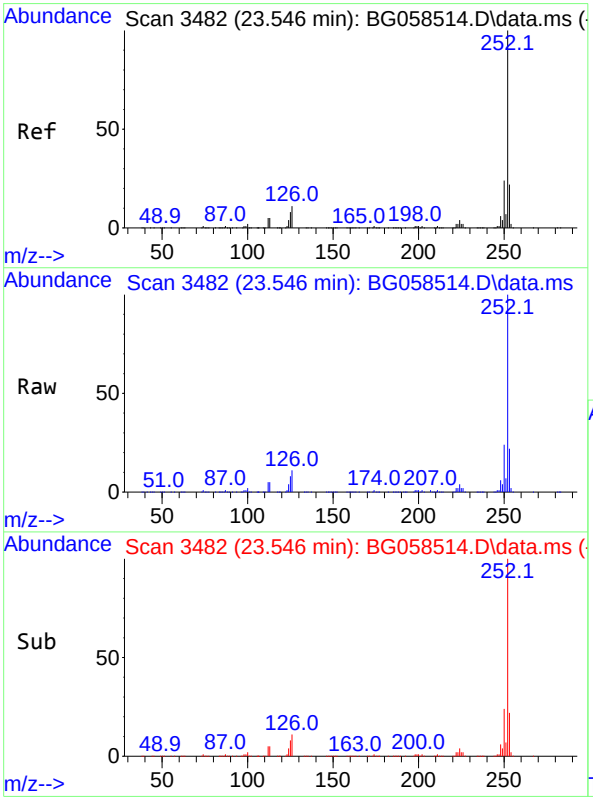
#87
Indeno(1,2,3-cd)pyrene
Concen: 41.087 ng
RT: 28.011 min Scan# 4
Delta R.T. 0.000 min
Lab File: BG058514.D
Acq: 28 Jul 2023 12:05

Instrument :
BNA_G
ClientSampleId :
SSTDICCC040

Tgt Ion:276 Resp: 1153220

Ion	Ratio	Lower	Upper
276	100		
138	20.0	16.0	24.0
277	25.5	20.4	30.6

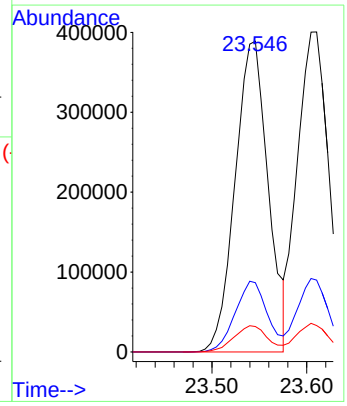


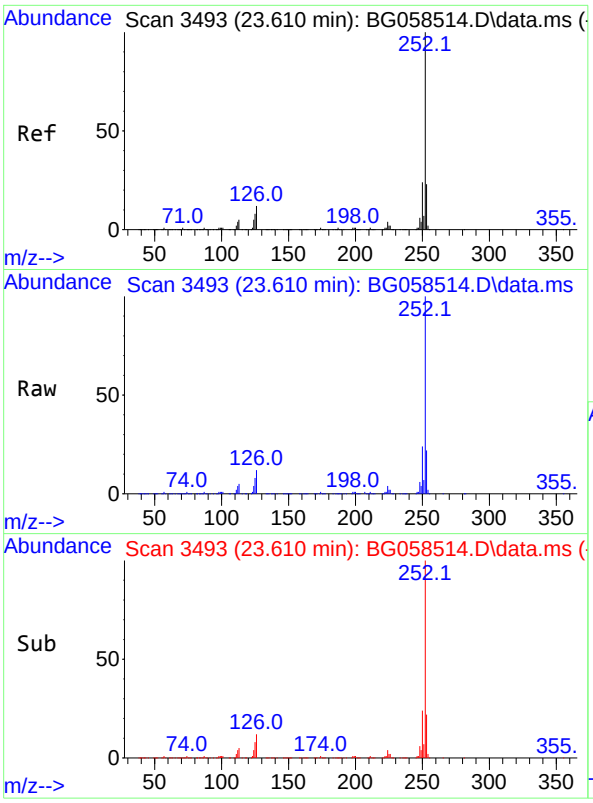


#88
Benzo(b)fluoranthene
Concen: 41.191 ng
RT: 23.546 min Scan# 3482
Delta R.T. 0.000 min
Lab File: BG058514.D
Acq: 28 Jul 2023 12:05

Tgt Ion:252 Resp: 942571

Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.8	26.8
125	8.2	6.6	9.8



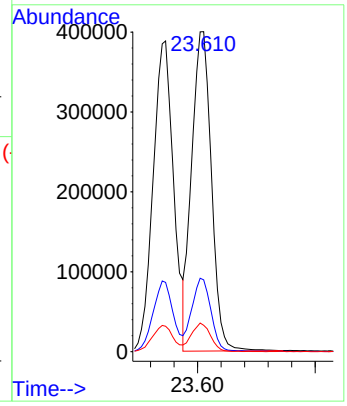


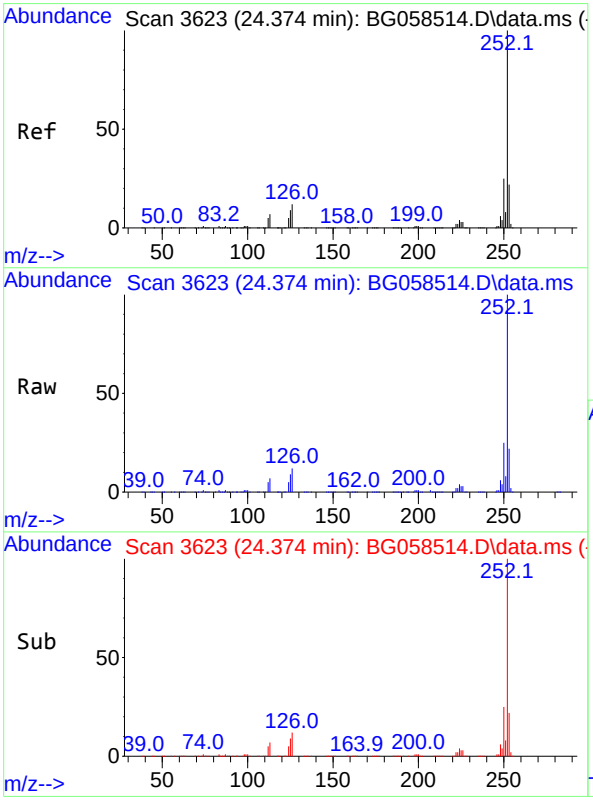
#89
Benzo(k)fluoranthene
Concen: 40.472 ng
RT: 23.610 min Scan# 3
Delta R.T. 0.000 min
Lab File: BG058514.D
Acq: 28 Jul 2023 12:05

Instrument :
BNA_G
ClientSampleId :
SSTDICCC040

Tgt Ion:252 Resp: 930377

Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.9	26.9
125	8.3	6.6	10.0

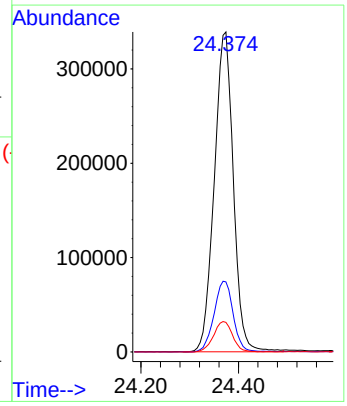


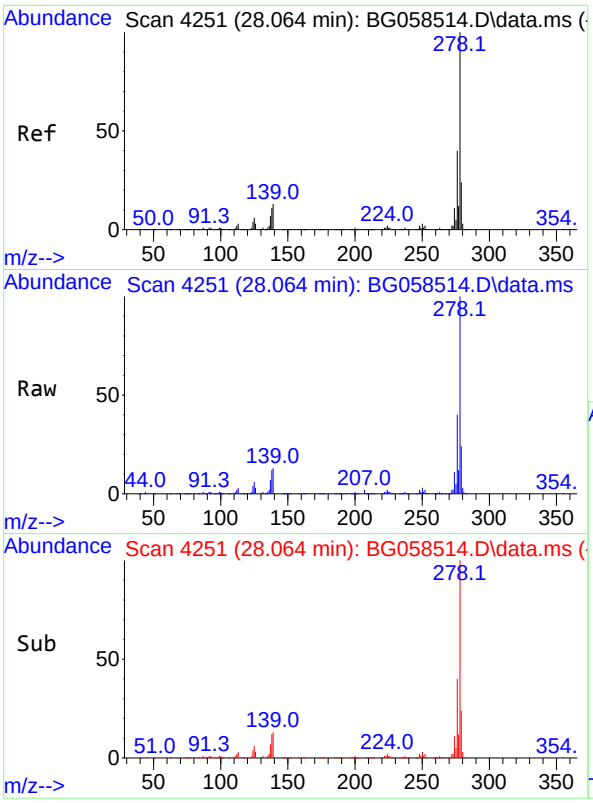


#90
Benzo(a)pyrene
Concen: 40.864 ng
RT: 24.374 min Scan# 3623
Delta R.T. 0.000 min
Lab File: BG058514.D
Acq: 28 Jul 2023 12:05

Tgt Ion:252 Resp: 918326

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.5	26.3
125	9.3	7.4	11.2



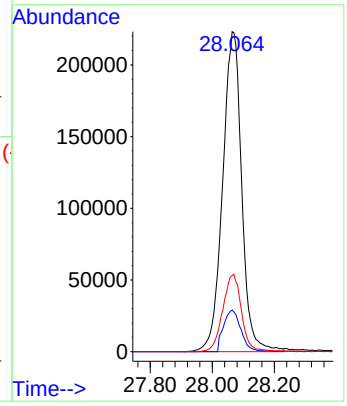


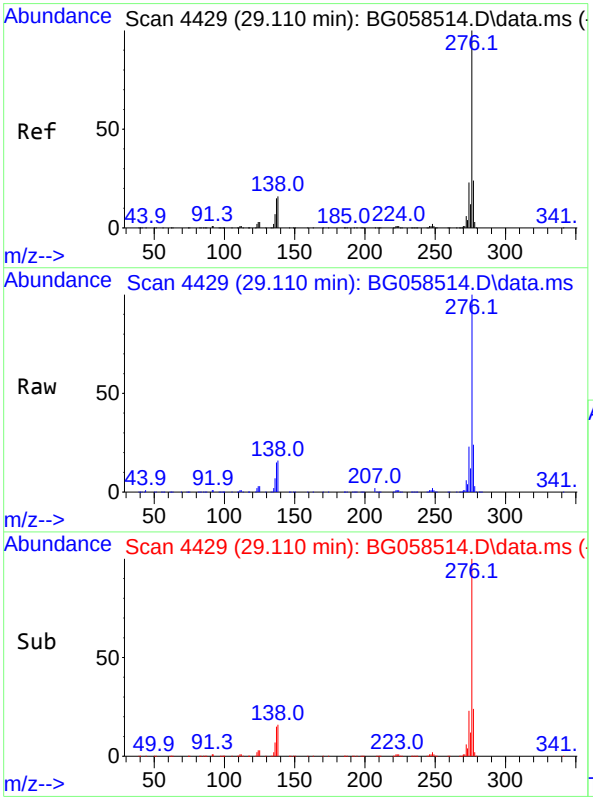
#91
Dibenzo(a,h)anthracene
Concen: 41.048 ng
RT: 28.064 min Scan# 4
Delta R.T. 0.000 min
Lab File: BG058514.D
Acq: 28 Jul 2023 12:05

Instrument :
BNA_G
ClientSampleId :
SSTDICCC040

Tgt Ion:278 Resp: 952642

Ion	Ratio	Lower	Upper
278	100		
139	13.0	10.4	15.6
279	23.8	19.0	28.6

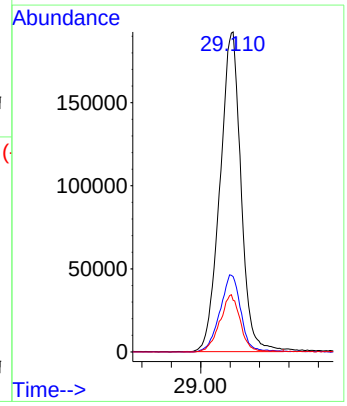




#92
Benzo(g,h,i)perylene
Concen: 40.907 ng
RT: 29.110 min Scan# 4429
Delta R.T. 0.000 min
Lab File: BG058514.D
Acq: 28 Jul 2023 12:05

Tgt Ion:276 Resp: 951978

Ion	Ratio	Lower	Upper
276	100		
277	23.6	18.9	28.3
138	16.2	13.0	19.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG072823\
Data File : BG058515.D
Acq On : 28 Jul 2023 12:46
Operator : MA/JU
Sample : SSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
SSTDICC050

Quant Time: Jul 28 16:58:30 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 28 16:53:40 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.814	152	65544	20.000	ng	0.00
21) Naphthalene-d8	10.617	136	264257	20.000	ng	0.00
39) Acenaphthene-d10	14.465	164	176654	20.000	ng	0.00
64) Phenanthrene-d10	17.209	188	411690	20.000	ng	0.00
76) Chrysene-d12	21.451	240	342944	20.000	ng	0.00
86) Perylene-d12	24.518	264	448540	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.388	112	403102	94.002	ng	0.00
7) Phenol-d6	6.992	99	569129	95.379	ng	0.00
23) Nitrobenzene-d5	8.983	82	519099	96.500	ng	0.00
42) 2,4,6-Tribromophenol	15.957	330	276695	95.561	ng	0.00
45) 2-Fluorobiphenyl	13.084	172	1095034	92.894	ng	0.00
79) Terphenyl-d14	19.829	244	1688146	92.569	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.272	88	96889	46.627	ng	99
3) Pyridine	3.672	79	269966	47.653	ng	98
4) n-Nitrosodimethylamine	3.590	42	113585	47.319	ng	99
6) Aniline	7.144	93	355250	48.356	ng	98
8) 2-Chlorophenol	7.379	128	199946	47.528	ng	98
9) Benzaldehyde	6.956	77	141005	43.495	ng	97
10) Phenol	7.015	94	277033	47.528	ng	100
11) bis(2-Chloroethyl)ether	7.238	93	220169	47.912	ng	98
12) 1,3-Dichlorobenzene	7.702	146	210826	46.932	ng	98
13) 1,4-Dichlorobenzene	7.849	146	211122	46.807	ng	96
14) 1,2-Dichlorobenzene	8.167	146	201331	46.686	ng	99
15) Benzyl Alcohol	8.055	79	193643	51.172	ng	99
16) 2,2'-oxybis(1-Chloropr...	8.343	45	356928	47.817	ng	99
17) 2-Methylphenol	8.261	107	202903	47.608	ng	99
18) Hexachloroethane	8.895	117	77691	47.389	ng	97
19) n-Nitroso-di-n-propyla...	8.625	70	182403	47.325	ng	97
20) 3+4-Methylphenols	8.595	107	281995	48.916	ng	99
22) Acetophenone	8.643	105	341437	48.254	ng	98
24) Nitrobenzene	9.024	77	265090	48.474	ng	99
25) Isophorone	9.541	82	533891	48.036	ng	99
26) 2-Nitrophenol	9.729	139	119415	50.163	ng	99
27) 2,4-Dimethylphenol	9.794	122	193882	49.101	ng	99
28) bis(2-Chloroethoxy)met...	10.029	93	294954	48.764	ng	100
29) 2,4-Dichlorophenol	10.270	162	199270	48.604	ng	96
30) 1,2,4-Trichlorobenzene	10.482	180	226534	47.912	ng	98
31) Naphthalene	10.670	128	658489	47.278	ng	100
32) Benzoic acid	9.970	122	148070	48.875	ng	98
33) 4-Chloroaniline	10.781	127	291207	49.486	ng	99
34) Hexachlorobutadiene	10.946	225	144749	47.538	ng	99
35) Caprolactam	11.574	113	72024	47.573	ng	93
36) 4-Chloro-3-methylphenol	11.915	107	247534	48.807	ng	99
37) 2-Methylnaphthalene	12.279	142	473504	47.527	ng	99
38) 1-Methylnaphthalene	12.503	142	444245	46.908	ng	97
40) 1,2,4,5-Tetrachloroben...	12.650	216	262155	48.337	ng	100
41) Hexachlorocyclopentadiene	12.626	237	116530	49.133	ng	97
43) 2,4,6-Trichlorophenol	12.896	196	181834	48.745	ng	94

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG072823\
Data File : BG058515.D
Acq On : 28 Jul 2023 12:46
Operator : MA/JU
Sample : SSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
SSTDICC050

Quant Time: Jul 28 16:58:30 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 28 16:53:40 2023
Response via : Initial Calibration

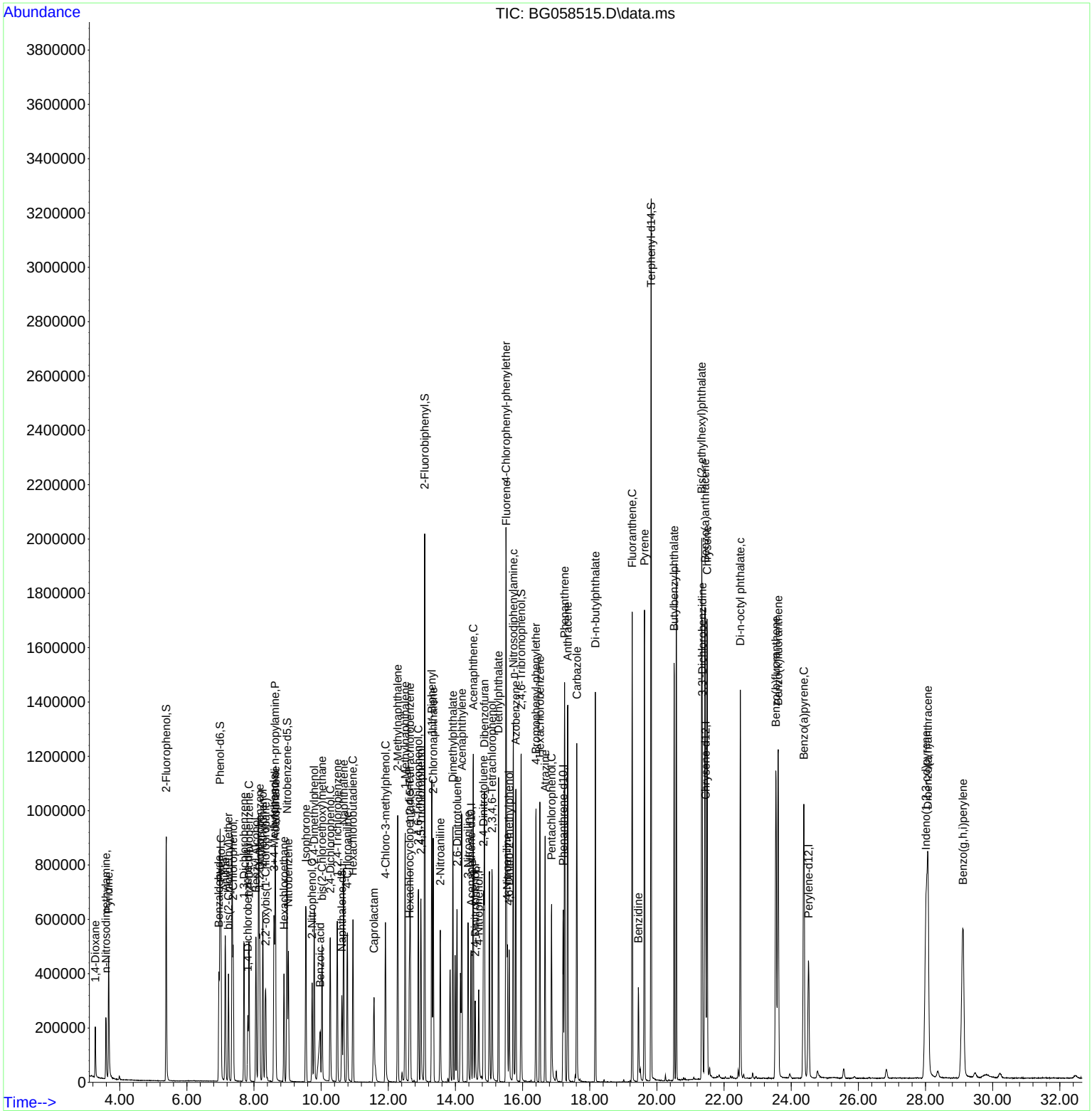
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.973	196	211191	48.066	ng	98
46) 1,1'-Biphenyl	13.296	154	586658	48.357	ng	99
47) 2-Chloronaphthalene	13.337	162	453033	47.893	ng	99
48) 2-Nitroaniline	13.549	65	181927	50.389	ng	97
49) Acenaphthylene	14.189	152	749368	47.318	ng	100
50) Dimethylphthalate	13.925	163	627634	47.307	ng	99
51) 2,6-Dinitrotoluene	14.048	165	140926	48.411	ng	98
52) Acenaphthene	14.530	154	433181	47.338	ng	98
53) 3-Nitroaniline	14.377	138	147003	50.473	ng	99
54) 2,4-Dinitrophenol	14.588	184	73231	47.935	ng	93
55) Dibenzofuran	14.865	168	733381	46.641	ng	99
56) 4-Nitrophenol	14.694	139	100774	48.166	ng	97
57) 2,4-Dinitrotoluene	14.835	165	197851	49.024	ng	98
58) Fluorene	15.511	166	575685	46.087	ng	99
59) 2,3,4,6-Tetrachlorophenol	15.094	232	180056	48.024	ng	99
60) Diethylphthalate	15.282	149	628171	46.476	ng	99
61) 4-Chlorophenyl-phenyle...	15.505	204	328759	47.208	ng	98
62) 4-Nitroaniline	15.540	138	137643	50.287	ng	95
63) Azobenzene	15.799	77	625153	46.959	ng	99
65) 4,6-Dinitro-2-methylph...	15.599	198	118222	52.080	ng	99
66) n-Nitrosodiphenylamine	15.722	169	516889	48.239	ng	98
67) 4-Bromophenyl-phenylether	16.398	248	226607	48.530	ng	98
68) Hexachlorobenzene	16.516	284	238376	48.176	ng	100
69) Atrazine	16.668	200	166099	45.919	ng	99
70) Pentachlorophenol	16.862	266	156348	52.438	ng	99
71) Phenanthrene	17.250	178	908394	46.527	ng	99
72) Anthracene	17.344	178	937391	46.792	ng	99
73) Carbazole	17.614	167	835516	47.295	ng	99
74) Di-n-butylphthalate	18.167	149	1042716	47.123	ng	99
75) Fluoranthene	19.265	202	1078526	45.987	ng	99
77) Benzidine	19.447	184	271557	52.218	ng	99
78) Pyrene	19.630	202	1103481	47.280	ng	100
80) Butylbenzylphthalate	20.517	149	471557	49.188	ng	96
81) Benzo(a)anthracene	21.433	228	1123919	47.621	ng	100
82) 3,3'-Dichlorobenzidine	21.351	252	388422	48.676	ng	99
83) Chrysene	21.492	228	1078823	47.675	ng	100
84) Bis(2-ethylhexyl)phtha...	21.334	149	671314	47.918	ng	98
85) Di-n-octyl phthalate	22.485	149	1194315	48.489	ng	100
87) Indeno(1,2,3-cd)pyrene	28.014	276	1444076	48.394	ng	100
88) Benzo(b)fluoranthene	23.543	252	1167516	47.991	ng	100
89) Benzo(k)fluoranthene	23.613	252	1147386	46.948	ng	100
90) Benzo(a)pyrene	24.377	252	1144556	47.906	ng	98
91) Dibenzo(a,h)anthracene	28.073	278	1186991	48.108	ng	99
92) Benzo(g,h,i)perylene	29.113	276	1188984	48.057	ng	99

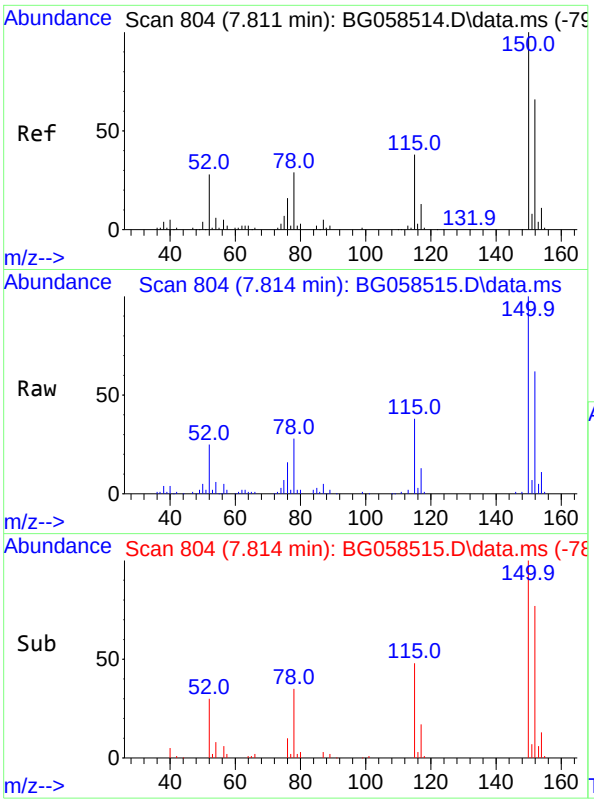
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG072823\
Data File : BG058515.D
Acq On : 28 Jul 2023 12:46
Operator : MA/JU
Sample : SSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
SSTDICC050

Quant Time: Jul 28 16:58:30 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 28 16:53:40 2023
Response via : Initial Calibration



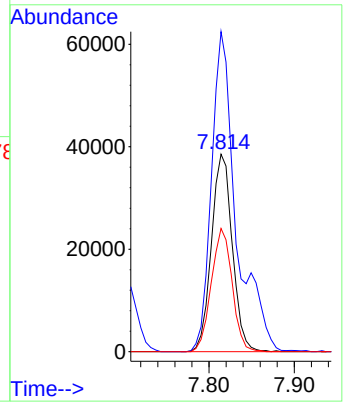


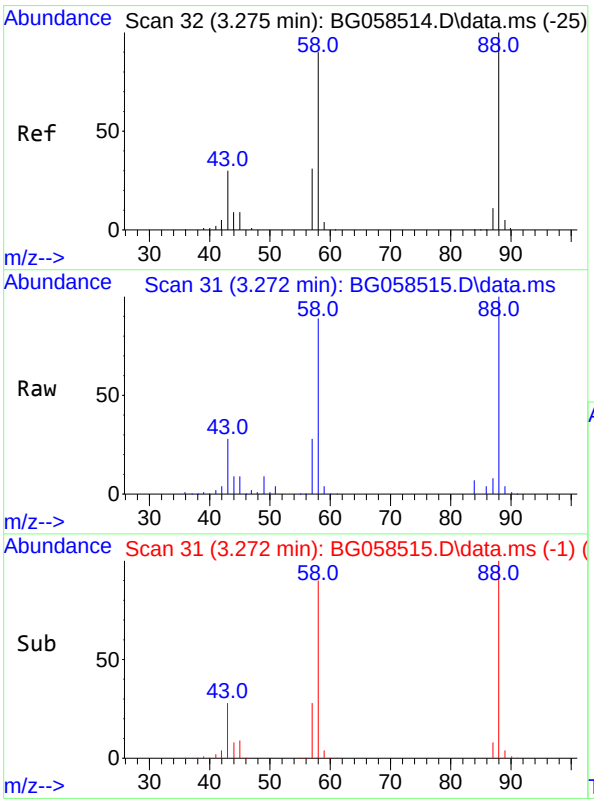
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.814 min Scan# 8
Delta R.T. 0.003 min
Lab File: BG058515.D
Acq: 28 Jul 2023 12:46

Instrument :
BNA_G
ClientSampleId :
SSTDICC050

Tgt Ion:152 Resp: 65544

Ion	Ratio	Lower	Upper
152	100		
150	162.1	120.5	180.7
115	62.4	45.9	68.9

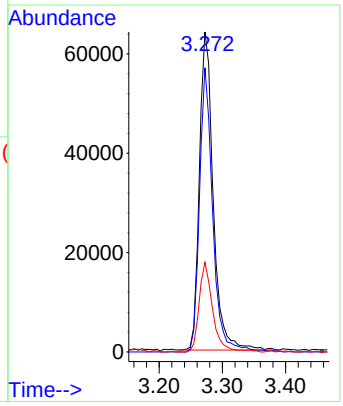


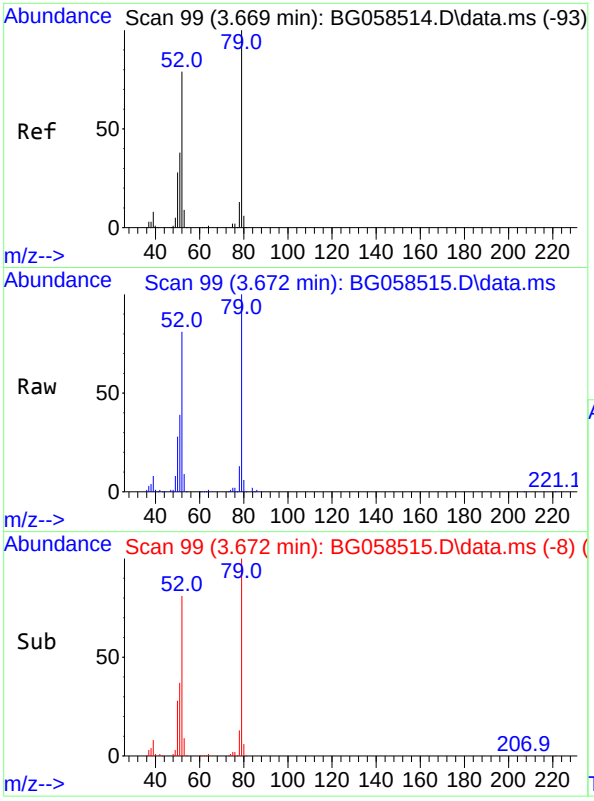


#2
1,4-Dioxane
Concen: 46.627 ng
RT: 3.272 min Scan# 31
Delta R.T. -0.003 min
Lab File: BG058515.D
Acq: 28 Jul 2023 12:46

Tgt Ion: 88 Resp: 96889

Ion	Ratio	Lower	Upper
88	100		
58	85.6	68.9	103.3
43	27.7	22.9	34.3



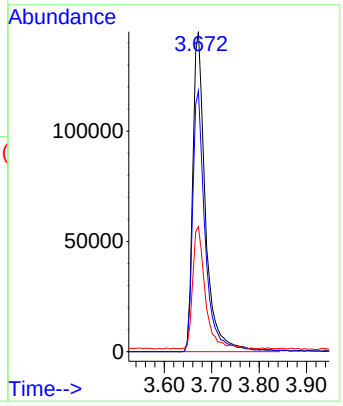


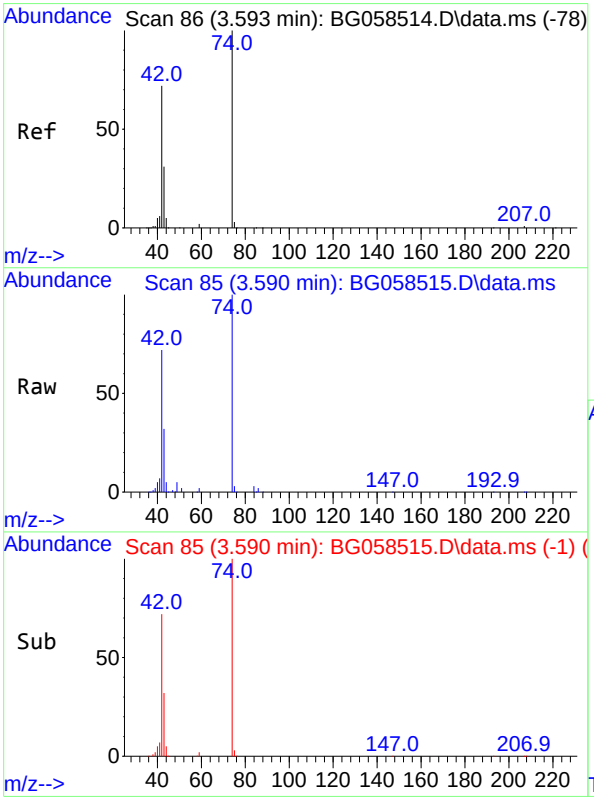
#3
Pyridine
Concen: 47.653 ng
RT: 3.672 min Scan# 9
Delta R.T. 0.003 min
Lab File: BG058515.D
Acq: 28 Jul 2023 12:46

Instrument :
BNA_G
ClientSampleId :
SSTDICC050

Tgt Ion: 79 Resp: 269966

Ion	Ratio	Lower	Upper
79	100		
52	81.4	63.2	94.8
51	39.1	31.9	47.9

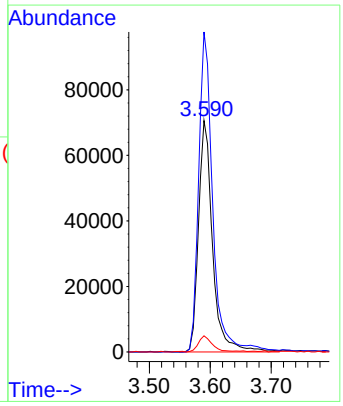


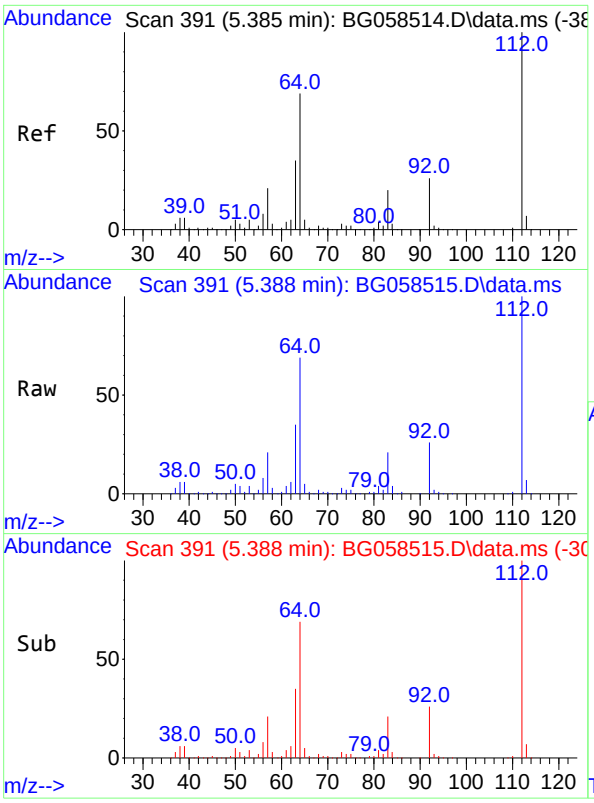


#4
n-Nitrosodimethylamine
Concen: 47.319 ng
RT: 3.590 min Scan# 85
Delta R.T. -0.003 min
Lab File: BG058515.D
Acq: 28 Jul 2023 12:46

Tgt Ion: 42 Resp: 113585

Ion	Ratio	Lower	Upper
42	100		
74	138.3	111.5	167.3
44	7.0	5.4	8.2



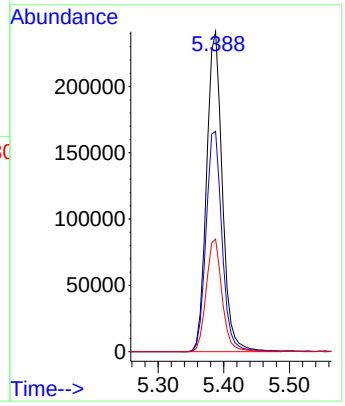


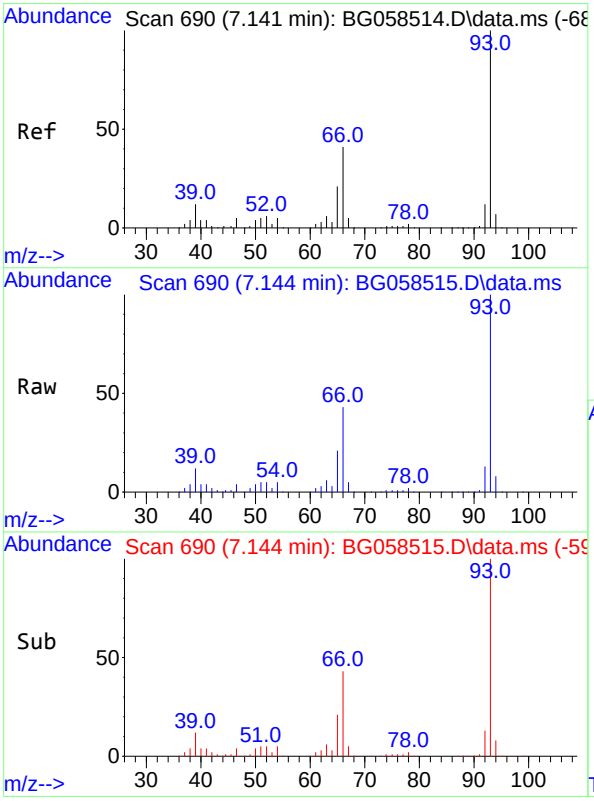
#5
2-Fluorophenol
Concen: 94.002 ng
RT: 5.388 min Scan# 3
Delta R.T. 0.003 min
Lab File: BG058515.D
Acq: 28 Jul 2023 12:46

Instrument :
BNA_G
ClientSampleId :
SSTDICC050

Tgt Ion:112 Resp: 403102

Ion	Ratio	Lower	Upper
112	100		
64	68.9	55.3	82.9
63	35.2	28.3	42.5

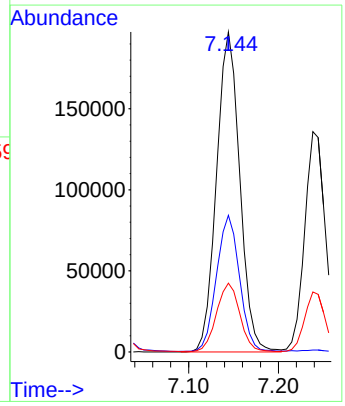


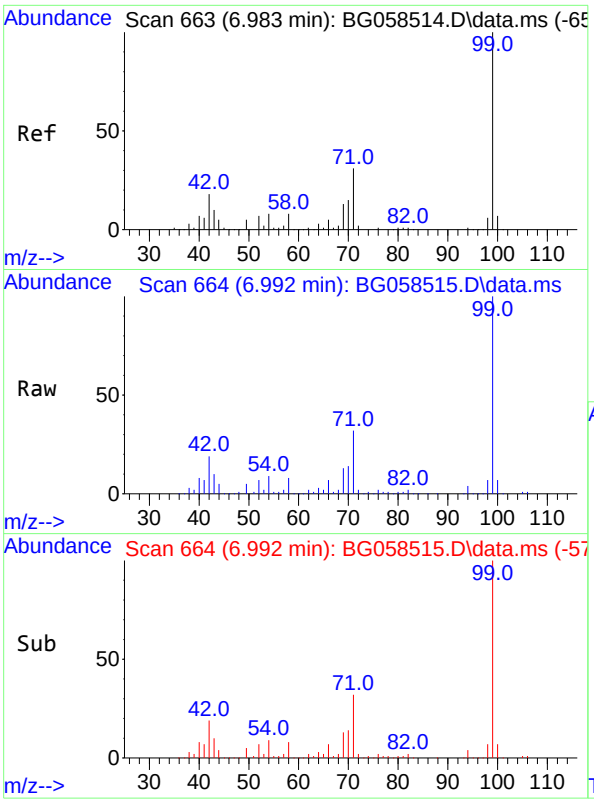


#6
Aniline
Concen: 48.356 ng
RT: 7.144 min Scan# 690
Delta R.T. 0.003 min
Lab File: BG058515.D
Acq: 28 Jul 2023 12:46

Tgt Ion: 93 Resp: 355250

Ion	Ratio	Lower	Upper
93	100		
66	42.7	33.1	49.7
65	21.5	17.0	25.4



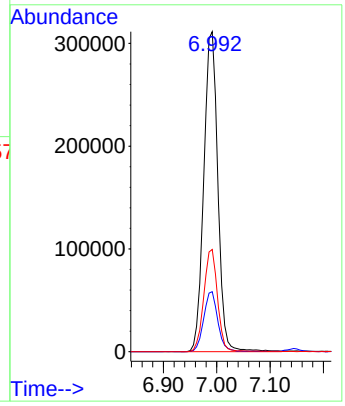


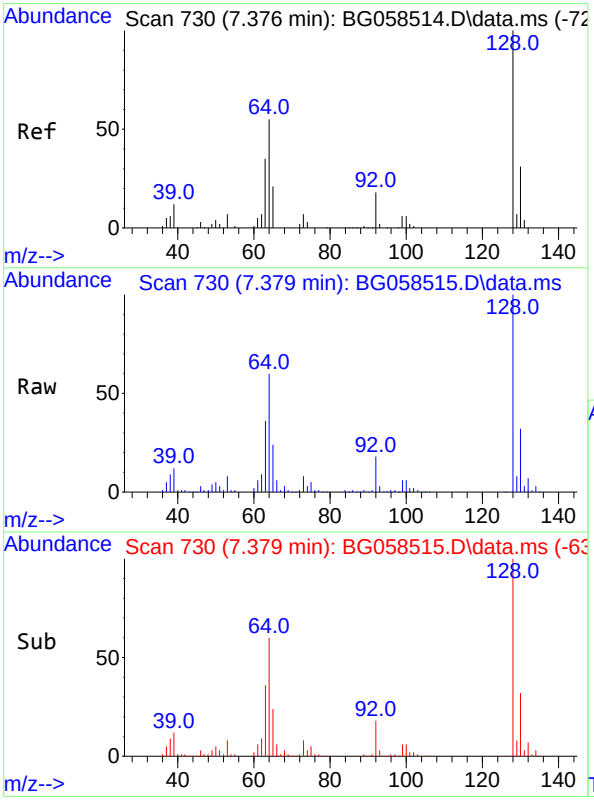
#7
Phenol-d6
Concen: 95.379 ng
RT: 6.992 min Scan# 6
Delta R.T. 0.009 min
Lab File: BG058515.D
Acq: 28 Jul 2023 12:46

Instrument :
BNA_G
ClientSampleId :
SSTDICC050

Tgt Ion: 99 Resp: 569129

Ion	Ratio	Lower	Upper
99	100		
42	18.8	14.6	21.8
71	31.9	25.0	37.4

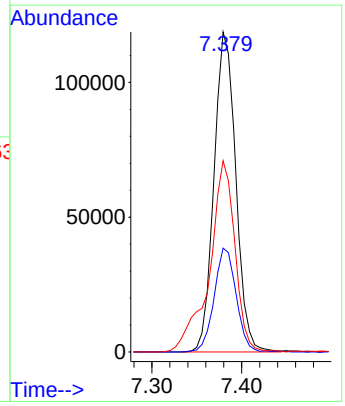


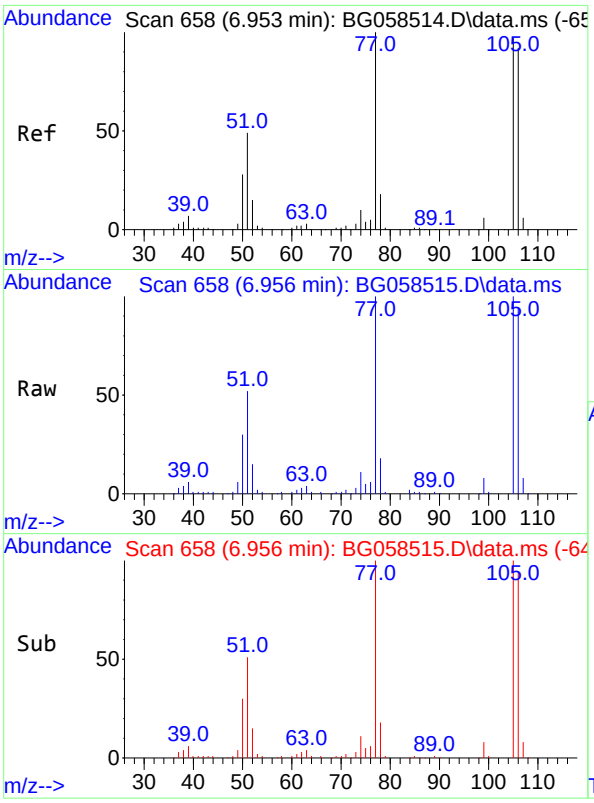


#8
2-Chlorophenol
Concen: 47.528 ng
RT: 7.379 min Scan# 730
Delta R.T. 0.003 min
Lab File: BG058515.D
Acq: 28 Jul 2023 12:46

Tgt Ion:128 Resp: 199946

Ion	Ratio	Lower	Upper
128	100		
130	32.4	10.9	50.9
64	59.8	39.0	79.0



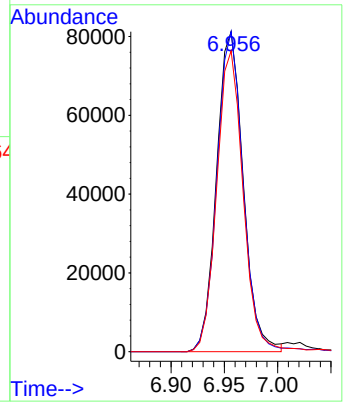


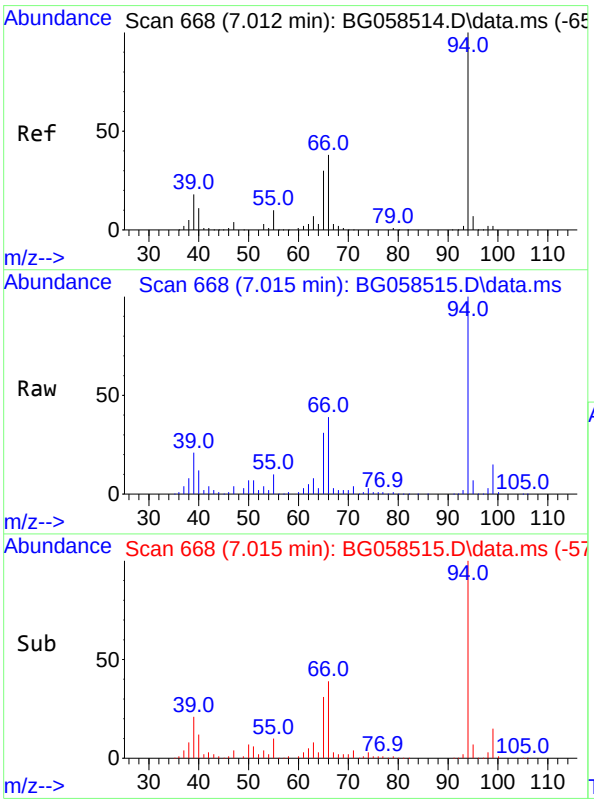
#9
Benzaldehyde
Concen: 43.495 ng
RT: 6.956 min Scan# 6
Delta R.T. 0.003 min
Lab File: BG058515.D
Acq: 28 Jul 2023 12:46

Instrument :
BNA_G
ClientSampleId :
SSTDICC050

Tgt Ion: 77 Resp: 141005

Ion	Ratio	Lower	Upper
77	100		
105	100.0	77.1	117.1
106	94.0	71.6	111.6

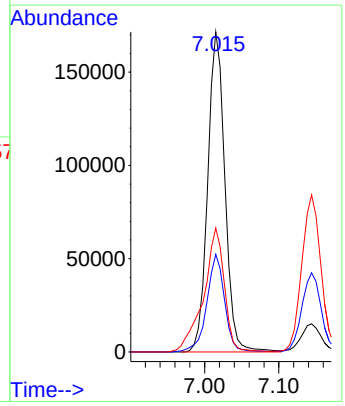


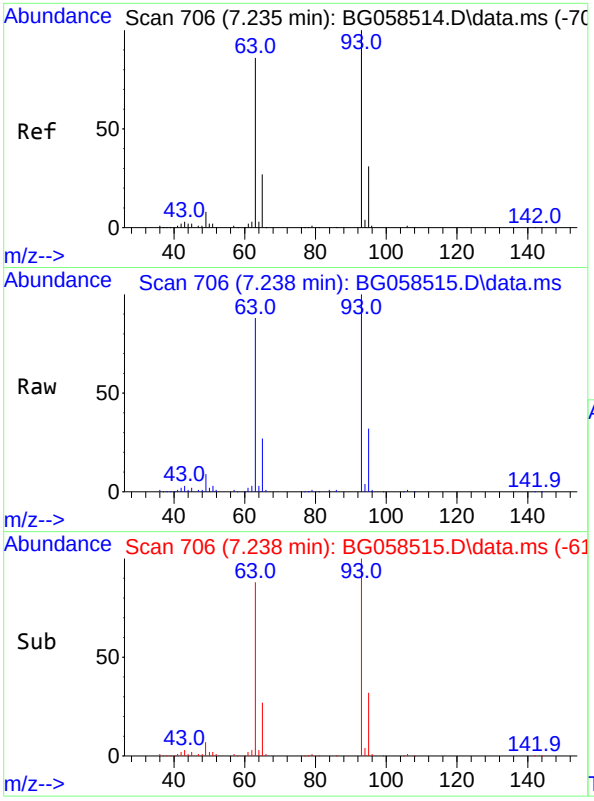


#10
Phenol
Concen: 47.528 ng
RT: 7.015 min Scan# 668
Delta R.T. 0.003 min
Lab File: BG058515.D
Acq: 28 Jul 2023 12:46

Tgt Ion: 94 Resp: 277033

Ion	Ratio	Lower	Upper
94	100		
65	30.5	10.4	50.4
66	38.7	18.7	58.7



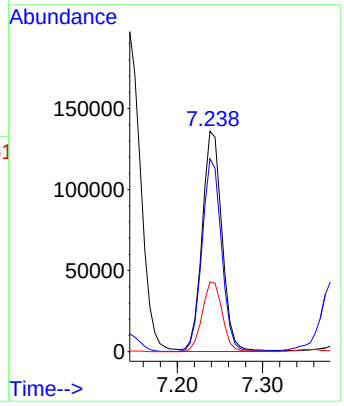


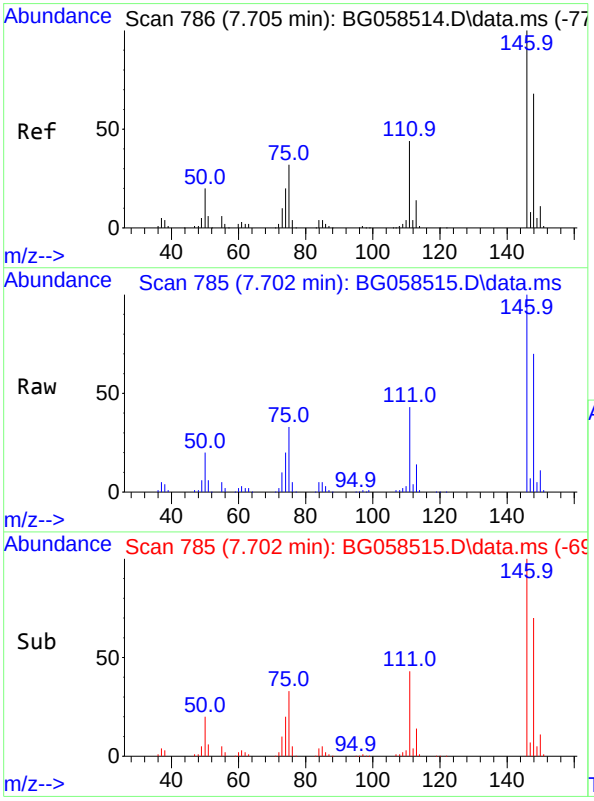
#11
bis(2-Chloroethyl)ether
Concen: 47.912 ng
RT: 7.238 min Scan# 7
Delta R.T. 0.003 min
Lab File: BG058515.D
Acq: 28 Jul 2023 12:46

Instrument :
BNA_G
ClientSampleId :
SSTDICC050

Tgt Ion: 93 Resp: 220169

Ion	Ratio	Lower	Upper
93	100		
63	87.6	65.5	105.5
95	31.7	11.2	51.2

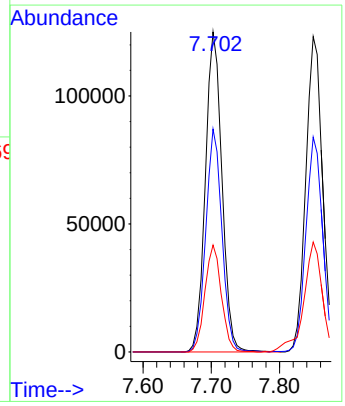


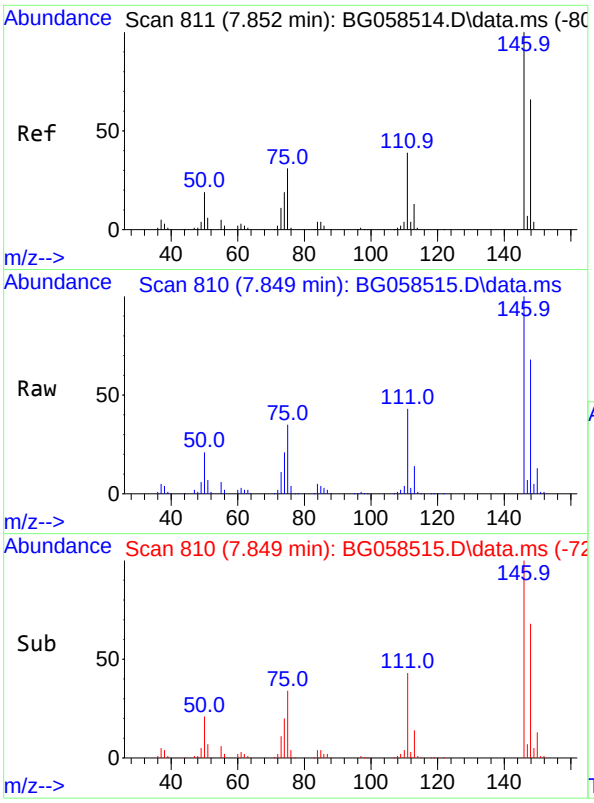


#12
1,3-Dichlorobenzene
Concen: 46.932 ng
RT: 7.702 min Scan# 785
Delta R.T. -0.003 min
Lab File: BG058515.D
Acq: 28 Jul 2023 12:46

Tgt Ion:146 Resp: 210826

Ion	Ratio	Lower	Upper
146	100		
148	69.6	54.7	82.1
75	33.4	25.8	38.8



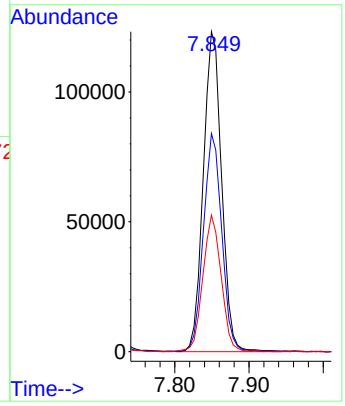


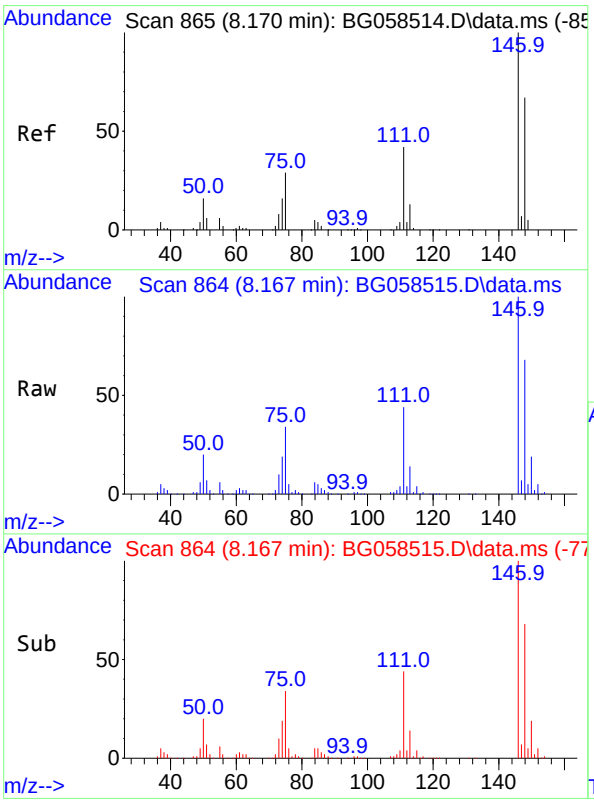
#13
1,4-Dichlorobenzene
Concen: 46.807 ng
RT: 7.849 min Scan# 81
Delta R.T. -0.003 min
Lab File: BG058515.D
Acq: 28 Jul 2023 12:46

Instrument :
BNA_G
ClientSampleId :
SSTDICC050

Tgt Ion:146 Resp: 211122

Ion	Ratio	Lower	Upper
146	100		
148	68.2	52.8	79.2
111	42.6	31.7	47.5

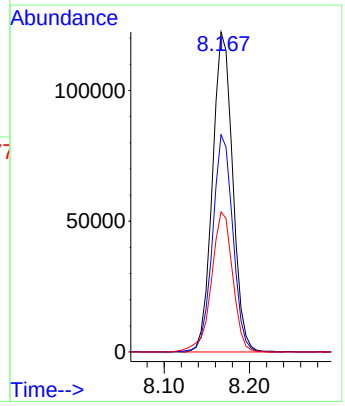


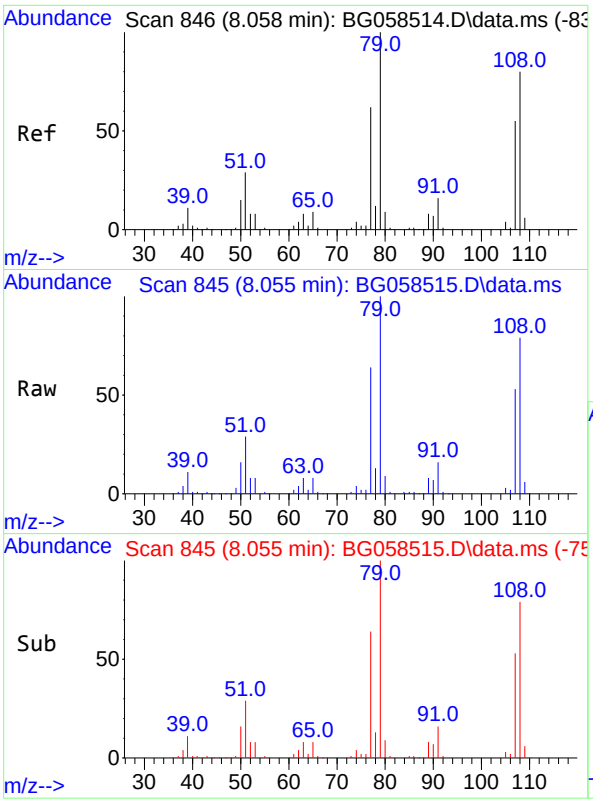


#14
1,2-Dichlorobenzene
Concen: 46.686 ng
RT: 8.167 min Scan# 864
Delta R.T. -0.003 min
Lab File: BG058515.D
Acq: 28 Jul 2023 12:46

Tgt Ion:146 Resp: 201331

Ion	Ratio	Lower	Upper
146	100		
148	67.8	53.4	80.2
111	43.7	34.2	51.2



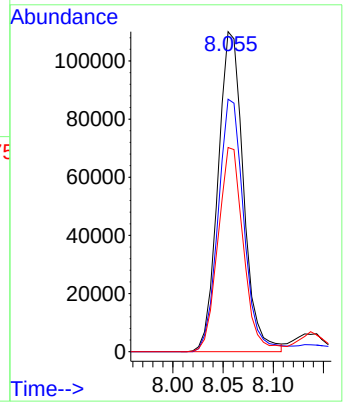


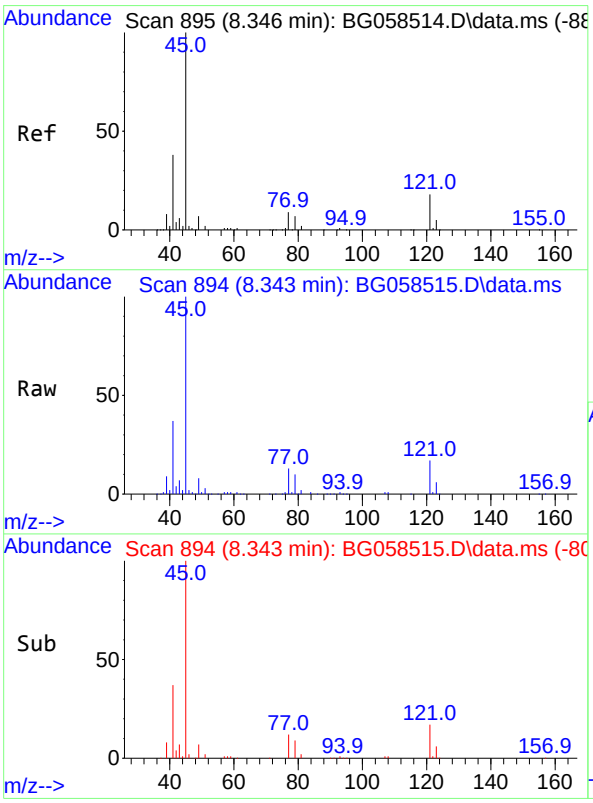
#15
Benzyl Alcohol
Concen: 51.172 ng
RT: 8.055 min Scan# 84
Delta R.T. -0.003 min
Lab File: BG058515.D
Acq: 28 Jul 2023 12:46

Instrument :
BNA_G
ClientSampleId :
SSTDICC050

Tgt Ion: 79 Resp: 193643

Ion	Ratio	Lower	Upper
79	100		
108	78.9	63.8	95.6
77	63.8	49.8	74.6

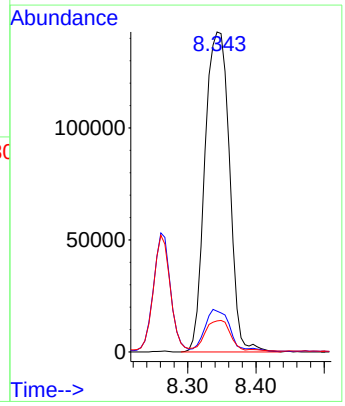


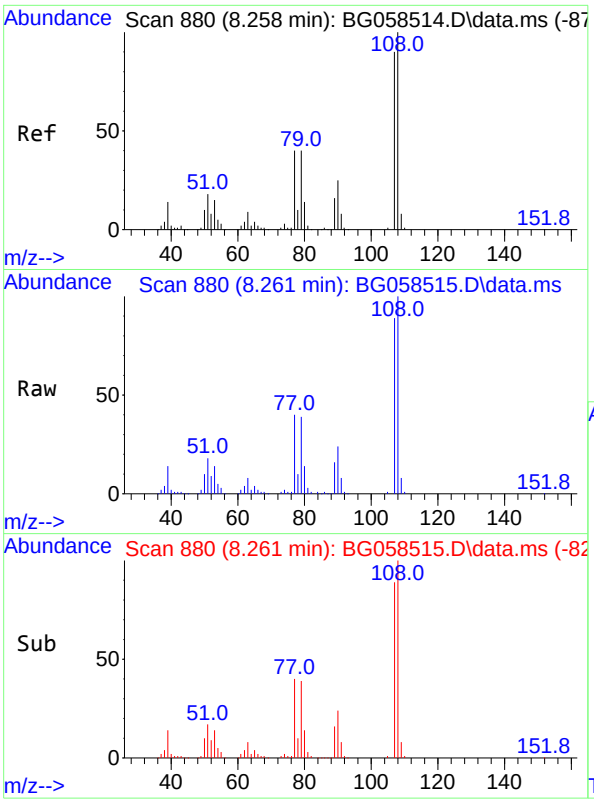


#16
2,2'-oxybis(1-Chloropropane)
Concen: 47.817 ng
RT: 8.343 min Scan# 894
Delta R.T. -0.003 min
Lab File: BG058515.D
Acq: 28 Jul 2023 12:46

Tgt Ion: 45 Resp: 356928

Ion	Ratio	Lower	Upper
45	100		
77	12.8	0.0	32.6
79	9.7	0.0	30.2



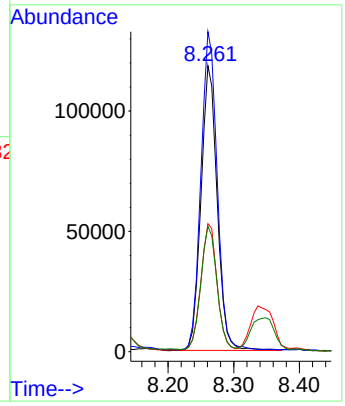


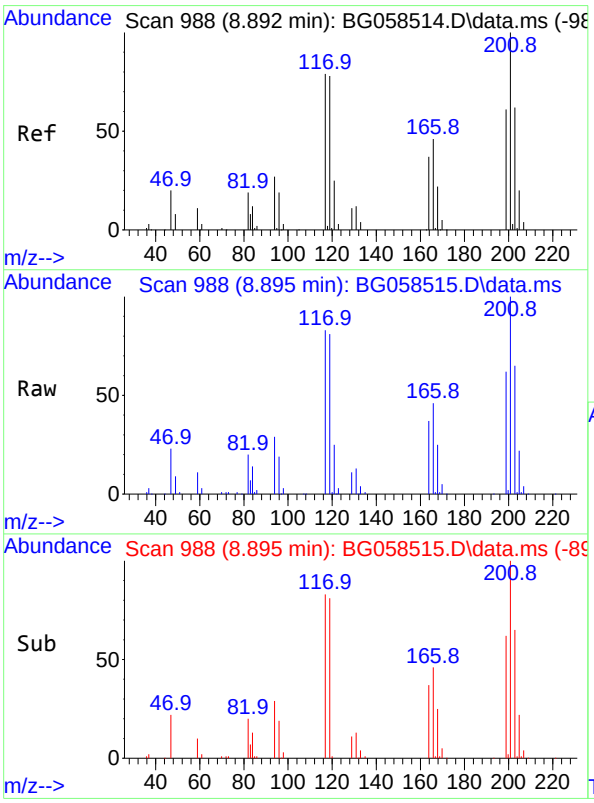
#17
2-Methylphenol
Concen: 47.608 ng
RT: 8.261 min Scan# 8
Delta R.T. 0.003 min
Lab File: BG058515.D
Acq: 28 Jul 2023 12:46

Instrument :
BNA_G
ClientSampleId :
SSTDICC050

Tgt Ion:107 Resp: 202903

Ion	Ratio	Lower	Upper
107	100		
108	111.9	89.1	133.7
77	44.8	36.2	54.4
79	43.8	36.1	54.1

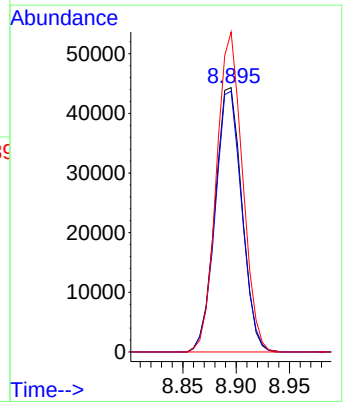


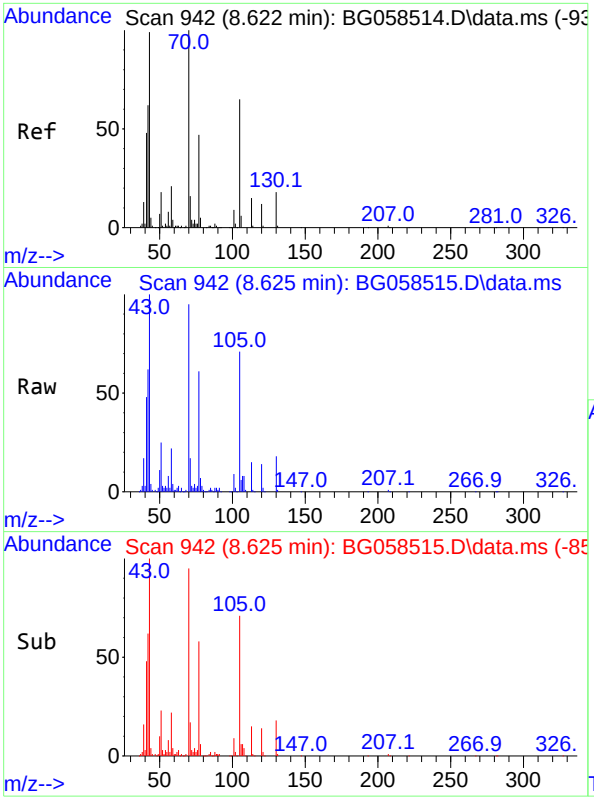


#18
Hexachloroethane
Concen: 47.389 ng
RT: 8.895 min Scan# 988
Delta R.T. 0.003 min
Lab File: BG058515.D
Acq: 28 Jul 2023 12:46

Tgt Ion:117 Resp: 77691

Ion	Ratio	Lower	Upper
117	100		
119	98.7	78.6	117.8
201	121.1	101.4	152.0



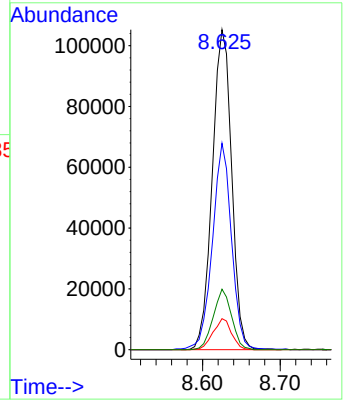


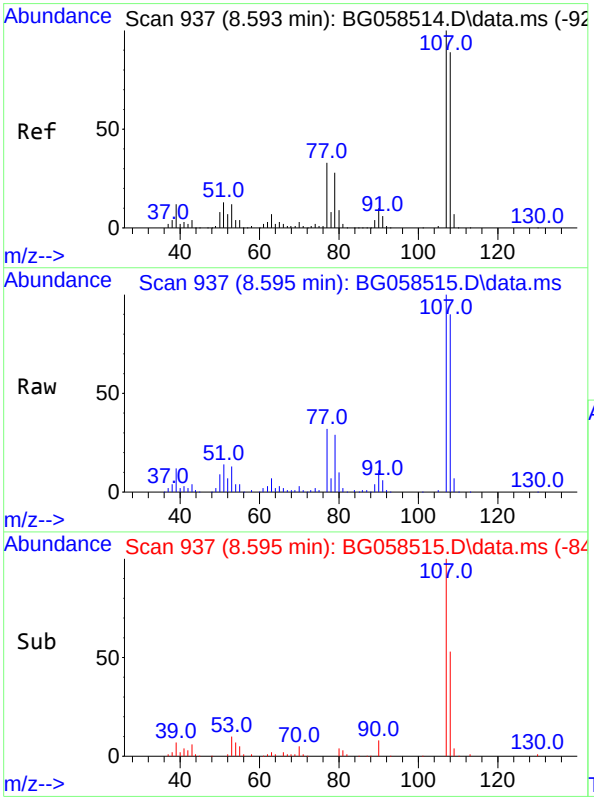
#19
n-Nitroso-di-n-propylamine
Concen: 47.325 ng
RT: 8.625 min Scan# 94
Delta R.T. 0.003 min
Lab File: BG058515.D
Acq: 28 Jul 2023 12:46

Instrument :
BNA_G
ClientSampleId :
SSTDICC050

Tgt Ion: 70 Resp: 182403

Ion	Ratio	Lower	Upper
70	100		
42	64.5	49.7	74.5
101	9.7	7.0	10.4
130	18.9	14.3	21.5

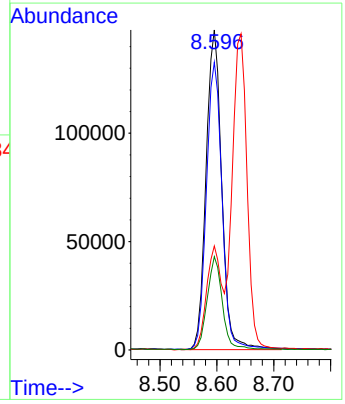


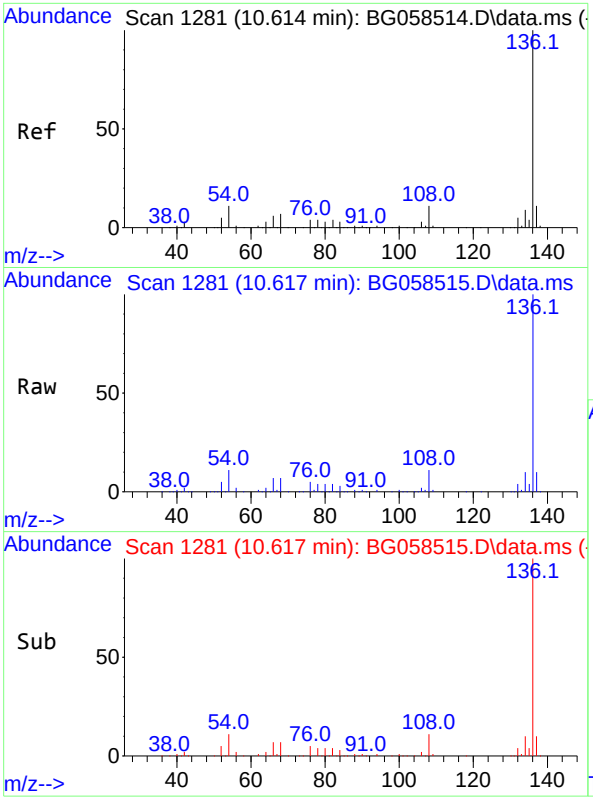


#20
3+4-Methylphenols
Concen: 48.916 ng
RT: 8.595 min Scan# 937
Delta R.T. 0.003 min
Lab File: BG058515.D
Acq: 28 Jul 2023 12:46

Tgt Ion:107 Resp: 281995

Ion	Ratio	Lower	Upper
107	100		
108	89.9	69.4	109.4
77	32.5	13.0	53.0
79	29.2	8.0	48.0



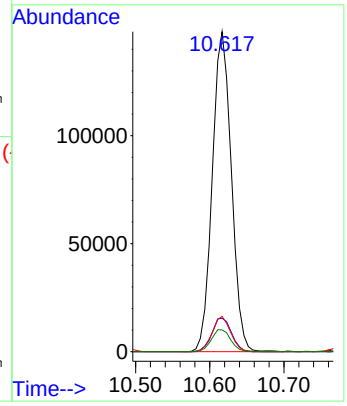


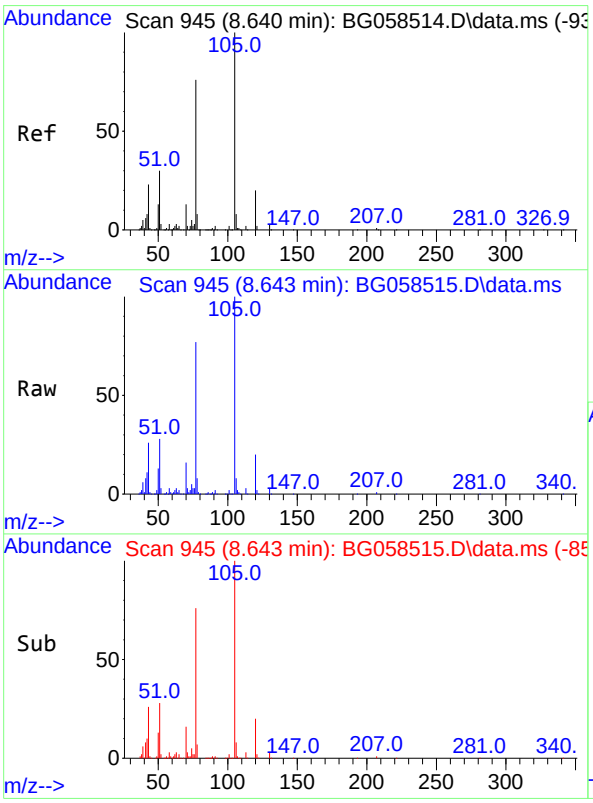
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.617 min Scan# 1
Delta R.T. 0.003 min
Lab File: BG058515.D
Acq: 28 Jul 2023 12:46

Instrument :
BNA_G
ClientSampleId :
SSTDICC050

Tgt Ion:136 Resp: 264257

Ion	Ratio	Lower	Upper
136	100		
137	10.4	8.6	13.0
54	11.0	8.9	13.3
68	6.8	5.6	8.4

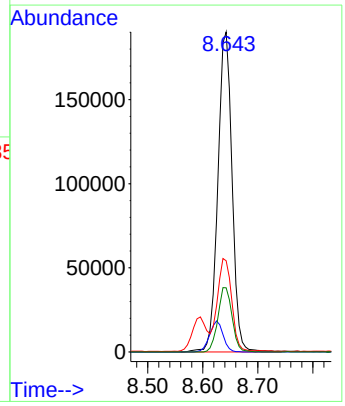


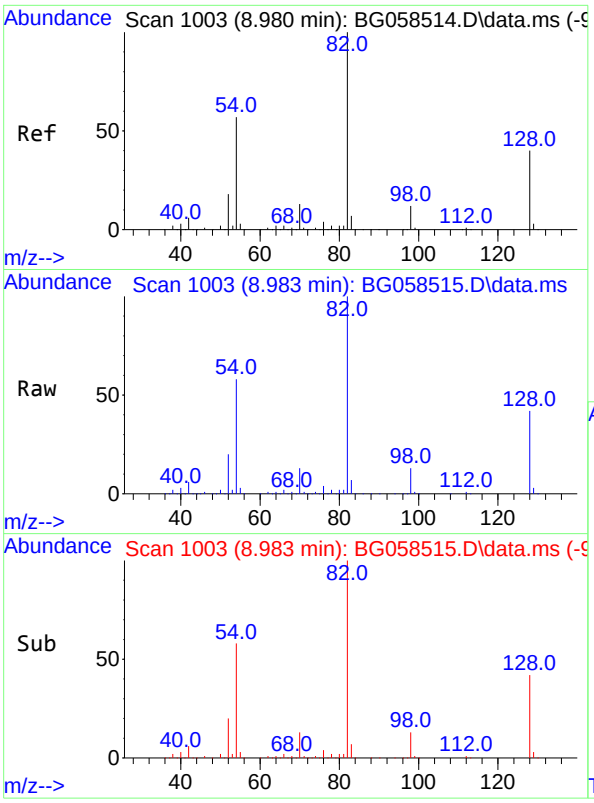


#22
Acetophenone
Concen: 48.254 ng
RT: 8.643 min Scan# 945
Delta R.T. 0.003 min
Lab File: BG058515.D
Acq: 28 Jul 2023 12:46

Tgt Ion:105 Resp: 341437

Ion	Ratio	Lower	Upper
105	100		
71	2.6	1.8	2.6
51	28.5	24.2	36.2
120	20.0	16.2	24.4



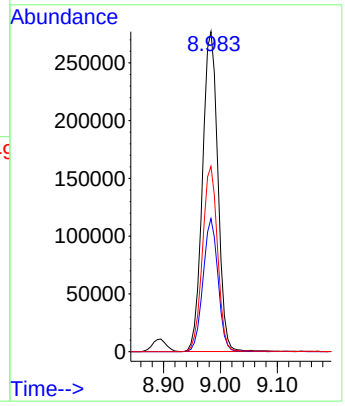


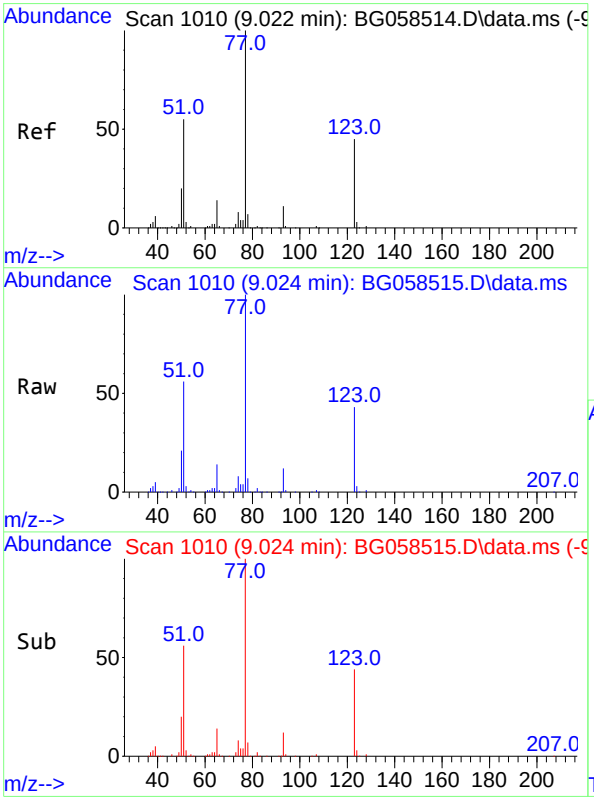
#23
Nitrobenzene-d5
Concen: 96.500 ng
RT: 8.983 min Scan# 1
Delta R.T. 0.003 min
Lab File: BG058515.D
Acq: 28 Jul 2023 12:46

Instrument :
BNA_G
ClientSampleId :
SSTDICC050

Tgt Ion: 82 Resp: 519099

Ion	Ratio	Lower	Upper
82	100		
128	41.6	32.2	48.2
54	57.9	46.0	69.0

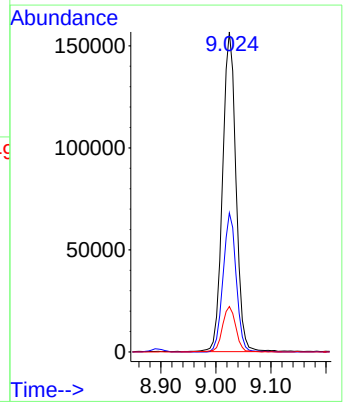


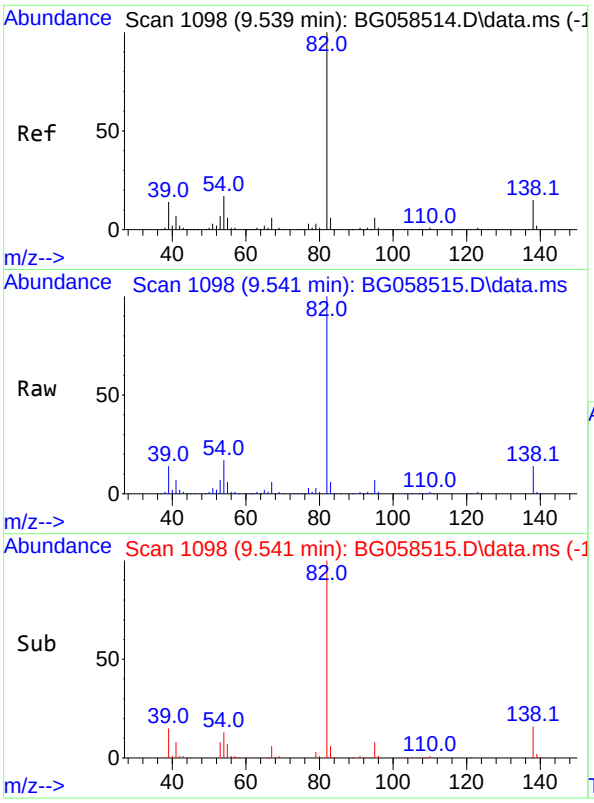


#24
Nitrobenzene
Concen: 48.474 ng
RT: 9.024 min Scan# 1010
Delta R.T. 0.003 min
Lab File: BG058515.D
Acq: 28 Jul 2023 12:46

Tgt Ion: 77 Resp: 265090

Ion	Ratio	Lower	Upper
77	100		
123	43.5	35.6	53.4
65	14.2	11.4	17.0



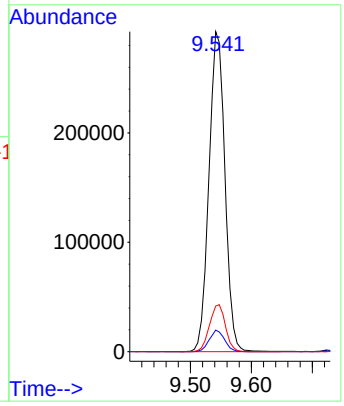


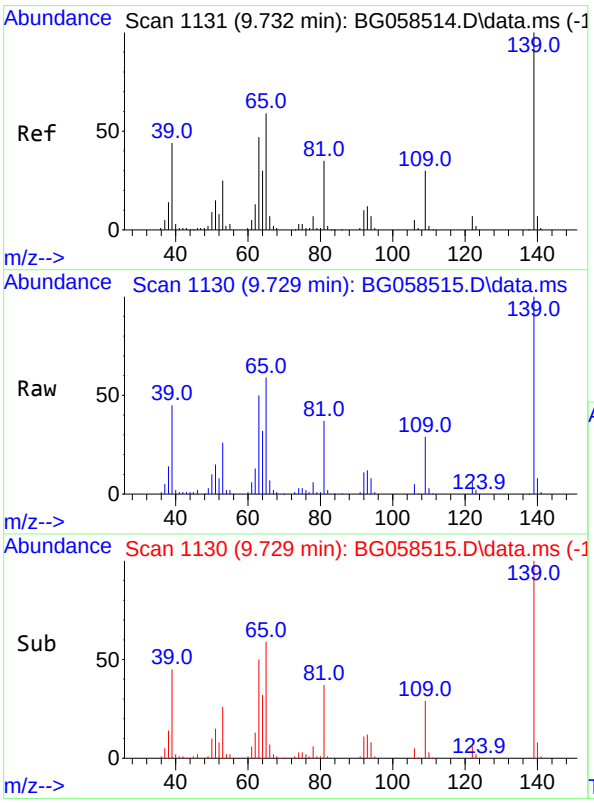
#25
Isophorone
Concen: 48.036 ng
RT: 9.541 min Scan# 1
Delta R.T. 0.003 min
Lab File: BG058515.D
Acq: 28 Jul 2023 12:46

Instrument :
BNA_G
ClientSampleId :
SSTDICC050

Tgt Ion: 82 Resp: 533891

Ion	Ratio	Lower	Upper
82	100		
95	6.8	5.1	7.7
138	14.3	11.9	17.9

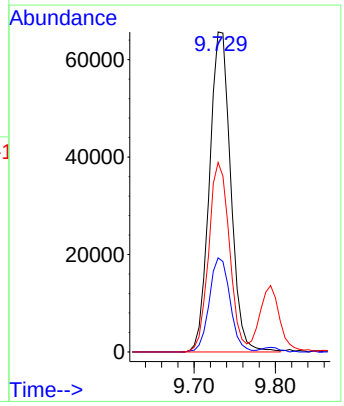


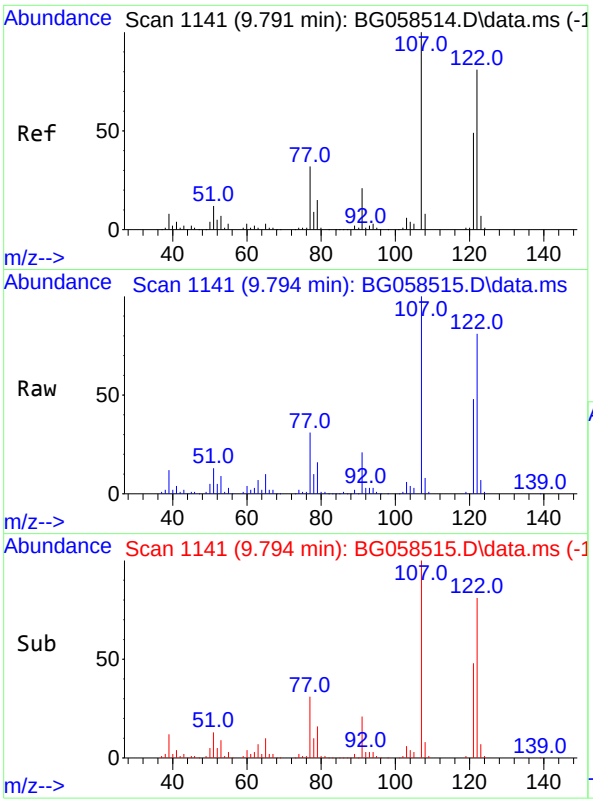


#26
2-Nitrophenol
Concen: 50.163 ng
RT: 9.729 min Scan# 1130
Delta R.T. -0.003 min
Lab File: BG058515.D
Acq: 28 Jul 2023 12:46

Tgt Ion:139 Resp: 119415

Ion	Ratio	Lower	Upper
139	100		
109	29.4	24.2	36.2
65	59.2	47.0	70.4



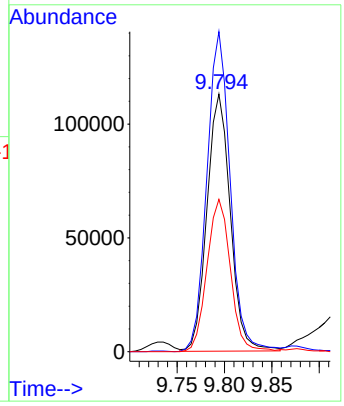


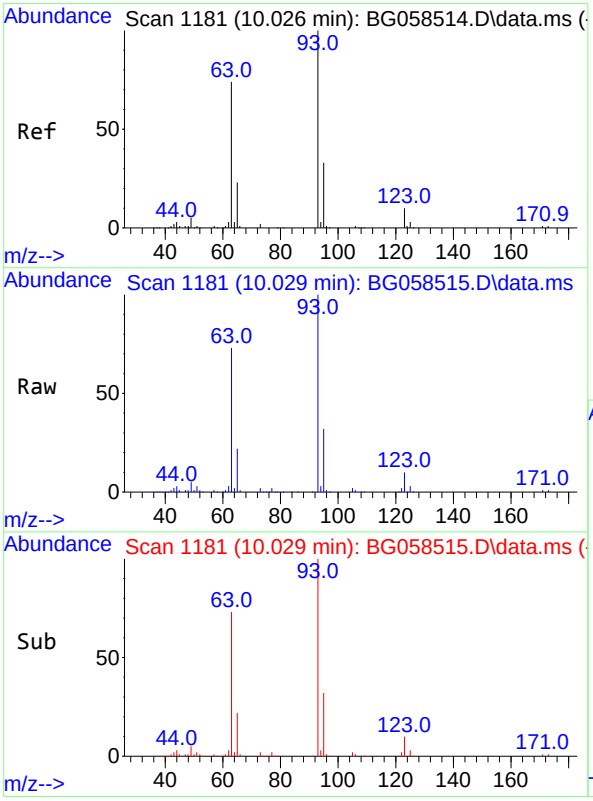
#27
2,4-Dimethylphenol
Concen: 49.101 ng
RT: 9.794 min Scan# 11
Delta R.T. 0.003 min
Lab File: BG058515.D
Acq: 28 Jul 2023 12:46

Instrument :
BNA_G
ClientSampleId :
SSTDICC050

Tgt Ion:122 Resp: 193882

Ion	Ratio	Lower	Upper
122	100		
107	124.2	98.0	147.0
121	59.1	47.8	71.6

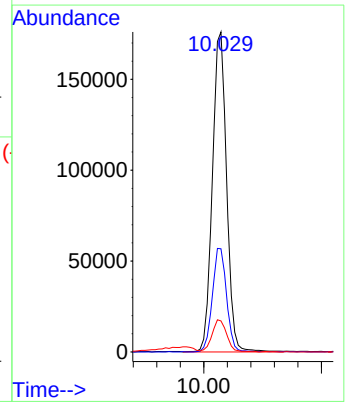


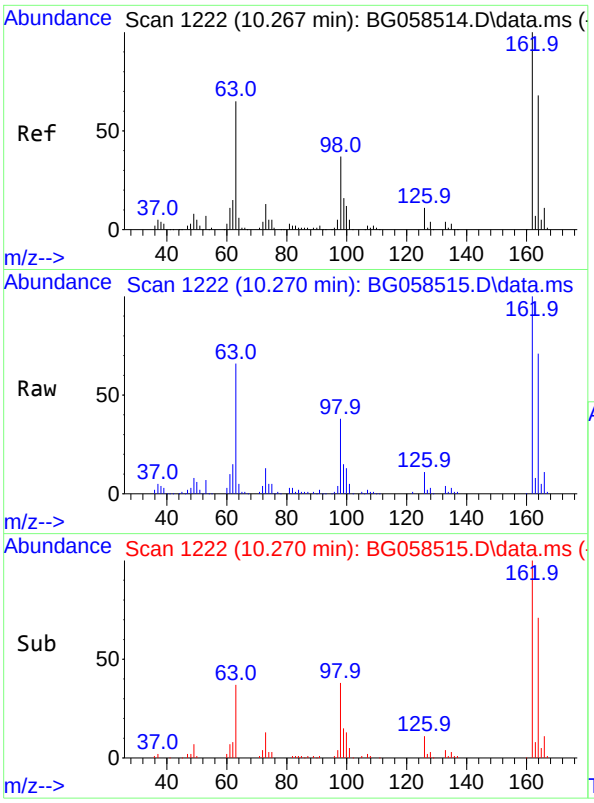


#28
bis(2-Chloroethoxy)methane
Concen: 48.764 ng
RT: 10.029 min Scan# 1181
Delta R.T. 0.003 min
Lab File: BG058515.D
Acq: 28 Jul 2023 12:46

Tgt Ion: 93 Resp: 294954

Ion	Ratio	Lower	Upper
93	100		
95	32.2	26.0	39.0
123	9.7	7.8	11.8



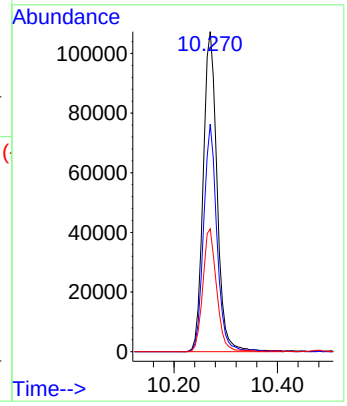


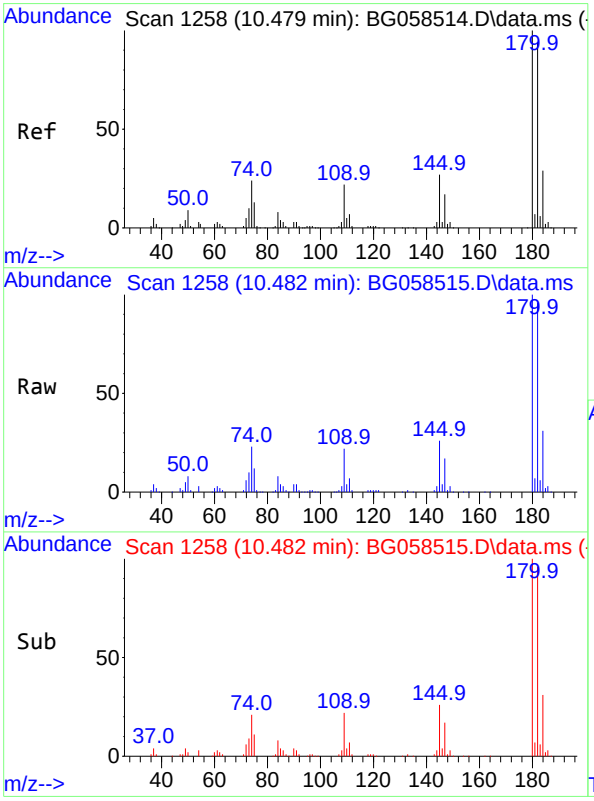
#29
2,4-Dichlorophenol
Concen: 48.604 ng
RT: 10.270 min Scan# 1
Delta R.T. 0.003 min
Lab File: BG058515.D
Acq: 28 Jul 2023 12:46

Instrument :
BNA_G
ClientSampleId :
SSTDICC050

Tgt Ion:162 Resp: 199270

Ion	Ratio	Lower	Upper
162	100		
164	71.1	47.6	87.6
98	38.4	17.1	57.1

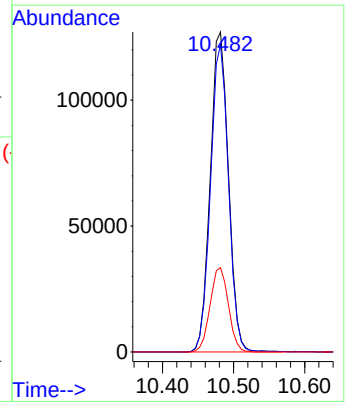


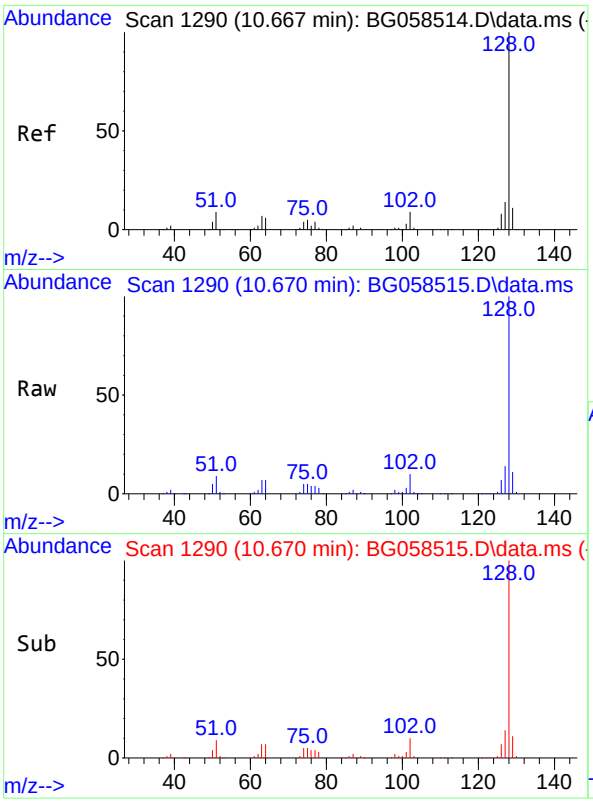


#30
1,2,4-Trichlorobenzene
Concen: 47.912 ng
RT: 10.482 min Scan# 1258
Delta R.T. 0.003 min
Lab File: BG058515.D
Acq: 28 Jul 2023 12:46

Tgt Ion:180 Resp: 226534

Ion	Ratio	Lower	Upper
180	100		
182	96.1	75.0	112.4
145	26.3	21.9	32.9



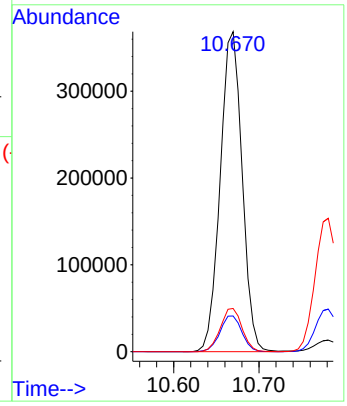


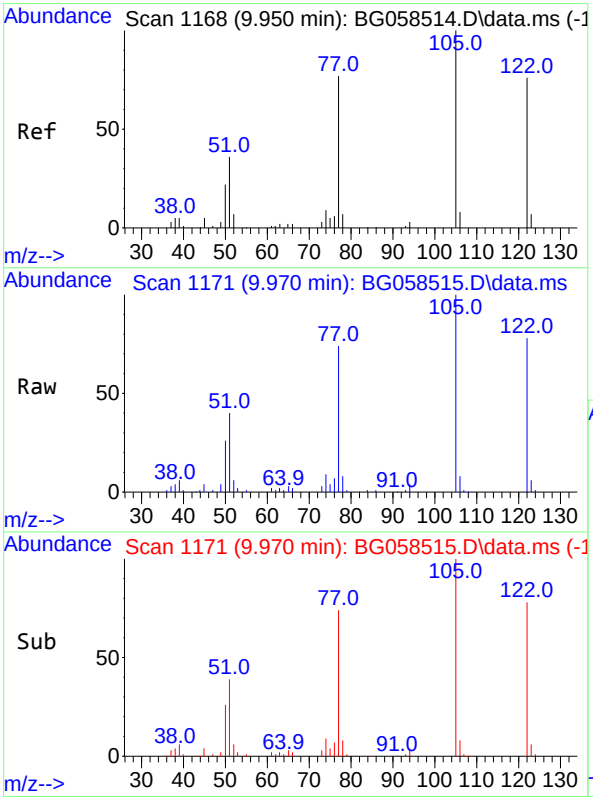
#31
Naphthalene
Concen: 47.278 ng
RT: 10.670 min Scan# 1
Delta R.T. 0.003 min
Lab File: BG058515.D
Acq: 28 Jul 2023 12:46

Instrument :
BNA_G
ClientSampleId :
SSTDICC050

Tgt Ion:128 Resp: 658489

Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.8	13.2
127	13.5	10.9	16.3

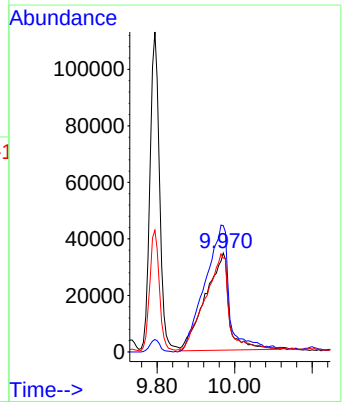


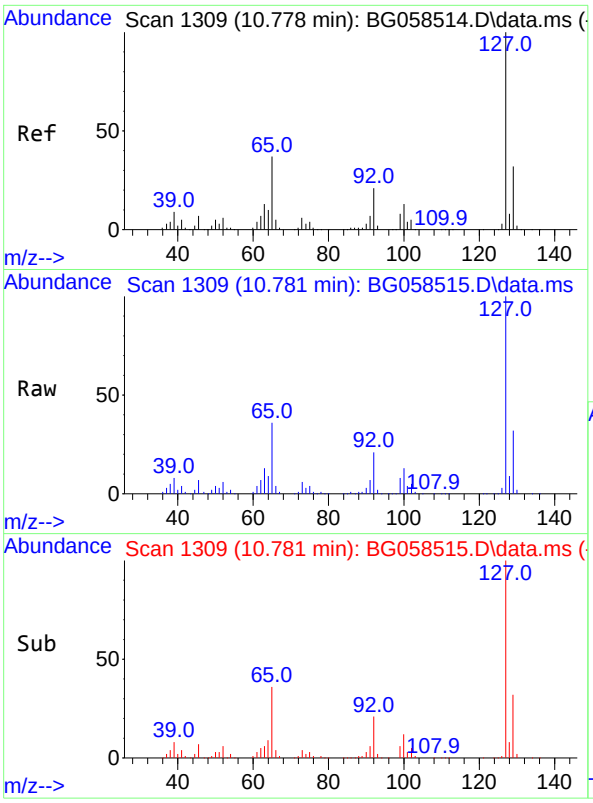


#32
Benzoic acid
Concen: 48.875 ng
RT: 9.970 min Scan# 1171
Delta R.T. 0.020 min
Lab File: BG058515.D
Acq: 28 Jul 2023 12:46

Tgt Ion:122 Resp: 148070

Ion	Ratio	Lower	Upper
122	100		
105	127.9	106.5	146.5
77	95.0	78.1	118.1



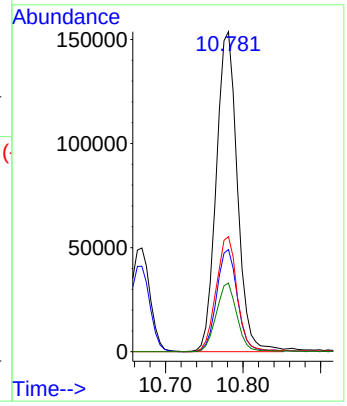


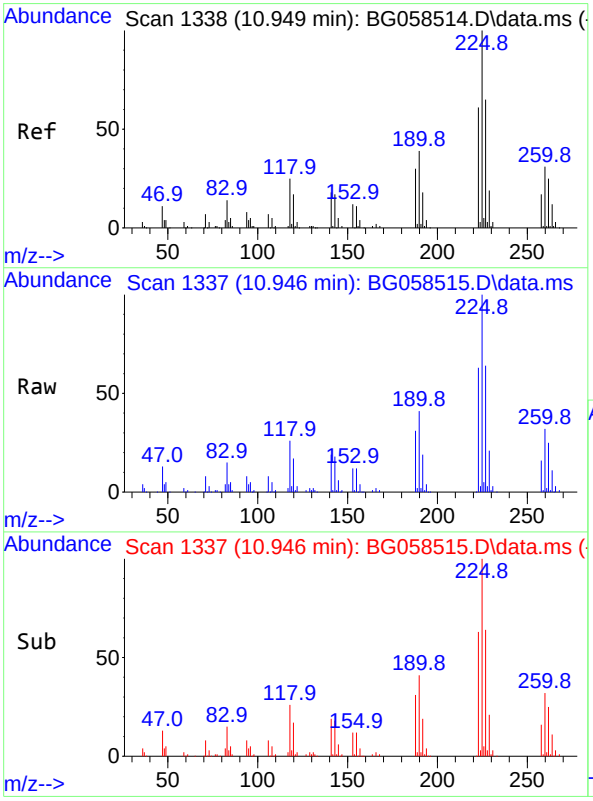
#33
4-Chloroaniline
Concen: 49.486 ng
RT: 10.781 min Scan# 1
Delta R.T. 0.003 min
Lab File: BG058515.D
Acq: 28 Jul 2023 12:46

Instrument :
BNA_G
ClientSampleId :
SSTDICC050

Tgt Ion:127 Resp: 291207

Ion	Ratio	Lower	Upper
127	100		
129	31.9	25.4	38.2
65	35.9	29.5	44.3
92	21.5	16.6	24.8

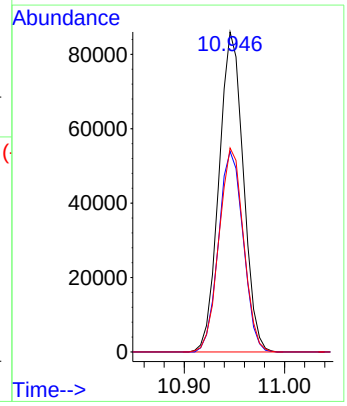


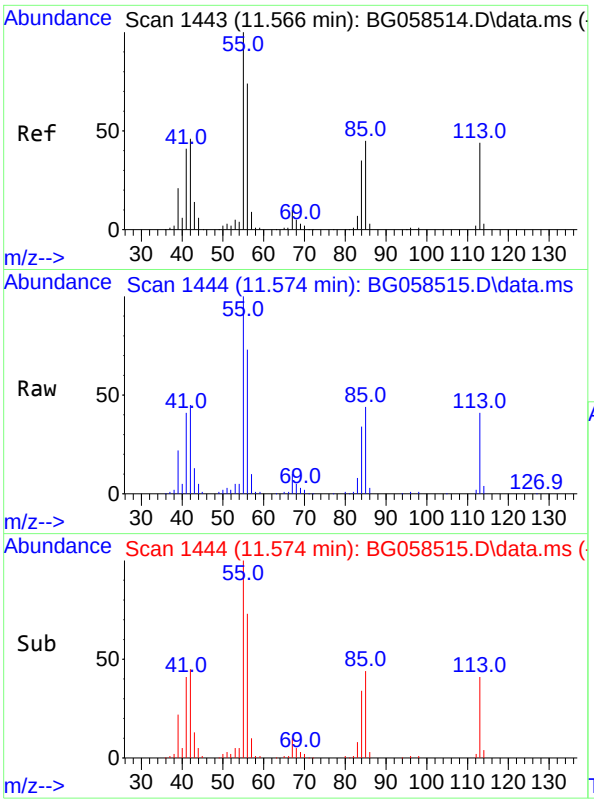


#34
Hexachlorobutadiene
Concen: 47.538 ng
RT: 10.946 min Scan# 1337
Delta R.T. -0.003 min
Lab File: BG058515.D
Acq: 28 Jul 2023 12:46

Tgt Ion:225 Resp: 144749

Ion	Ratio	Lower	Upper
225	100		
223	62.7	49.0	73.6
227	63.8	51.7	77.5



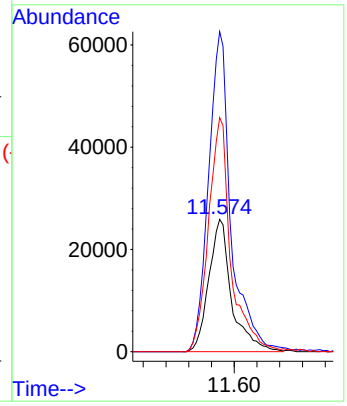


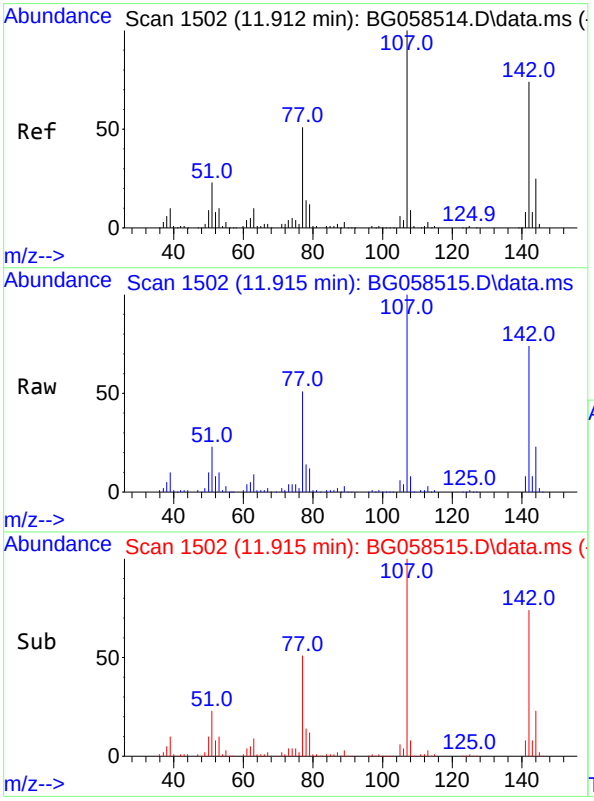
#35
Caprolactam
Concen: 47.573 ng
RT: 11.574 min Scan# 14
Delta R.T. 0.009 min
Lab File: BG058515.D
Acq: 28 Jul 2023 12:46

Instrument :
BNA_G
ClientSampleId :
SSTDICC050

Tgt Ion:113 Resp: 72024

Ion	Ratio	Lower	Upper
113	100		
55	241.8	208.0	248.0
56	176.8	148.6	188.6

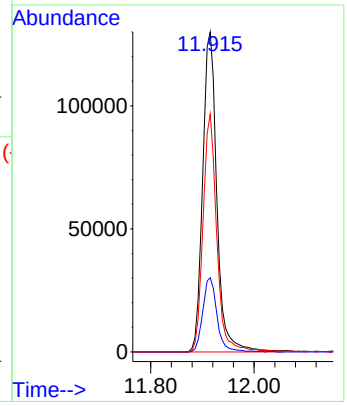


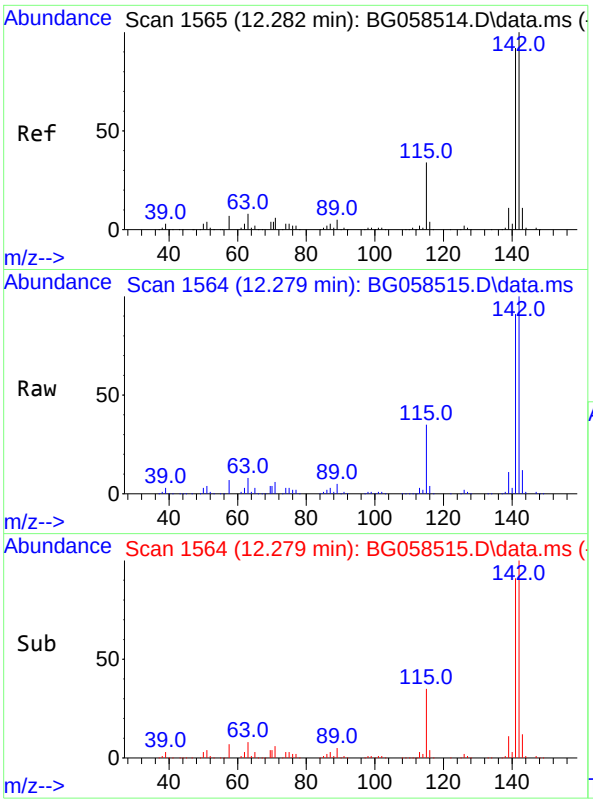


#36
4-Chloro-3-methylphenol
Concen: 48.807 ng
RT: 11.915 min Scan# 1502
Delta R.T. 0.003 min
Lab File: BG058515.D
Acq: 28 Jul 2023 12:46

Tgt Ion:107 Resp: 247534

Ion	Ratio	Lower	Upper
107	100		
144	23.2	19.6	29.4
142	74.3	59.3	88.9



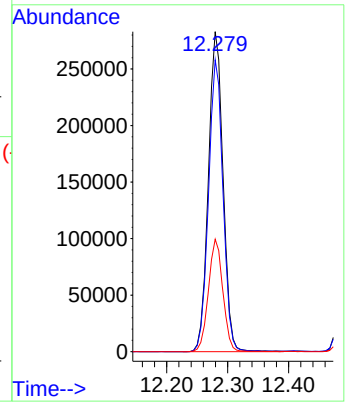


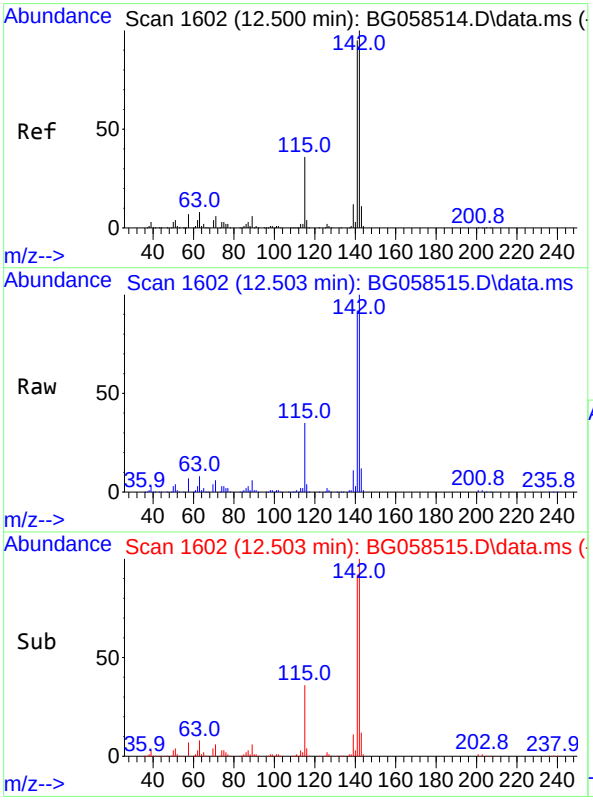
#37
2-Methylnaphthalene
Concen: 47.527 ng
RT: 12.279 min Scan# 1
Delta R.T. -0.003 min
Lab File: BG058515.D
Acq: 28 Jul 2023 12:46

Instrument :
BNA_G
ClientSampleId :
SSTDICC050

Tgt Ion:142 Resp: 473504

Ion	Ratio	Lower	Upper
142	100		
141	91.2	73.5	110.3
115	35.2	27.4	41.0

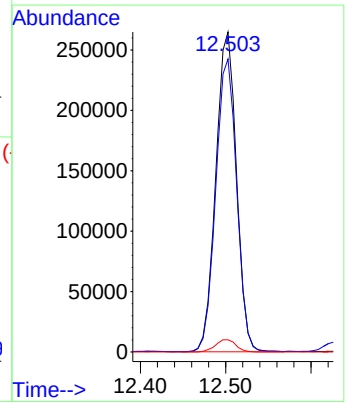


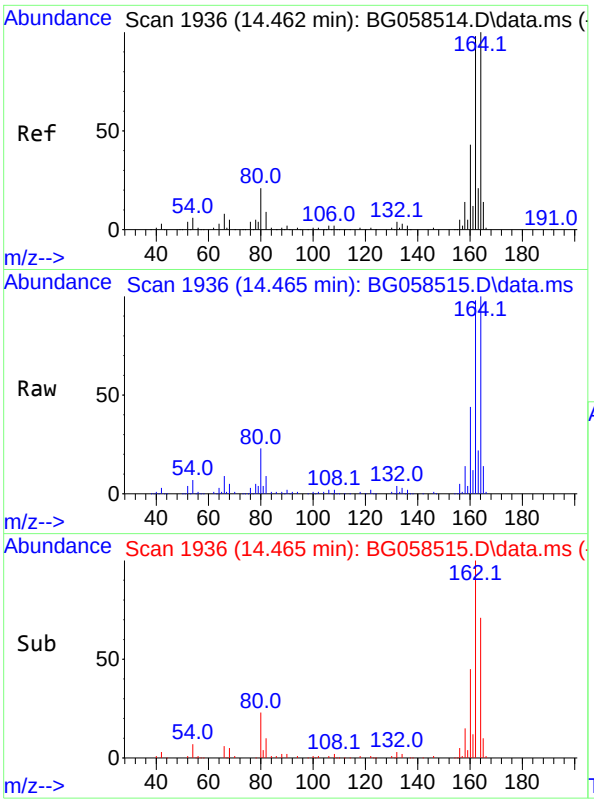


#38
1-Methylnaphthalene
Concen: 46.908 ng
RT: 12.503 min Scan# 1602
Delta R.T. 0.003 min
Lab File: BG058515.D
Acq: 28 Jul 2023 12:46

Tgt Ion:142 Resp: 444245

Ion	Ratio	Lower	Upper
142	100		
141	91.6	75.7	113.5
116	3.8	3.2	4.8



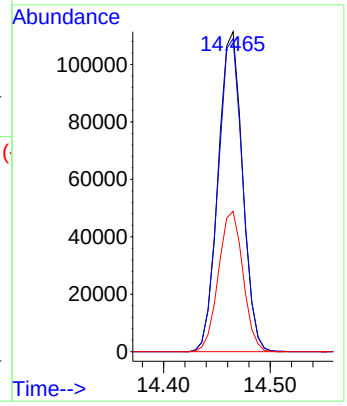


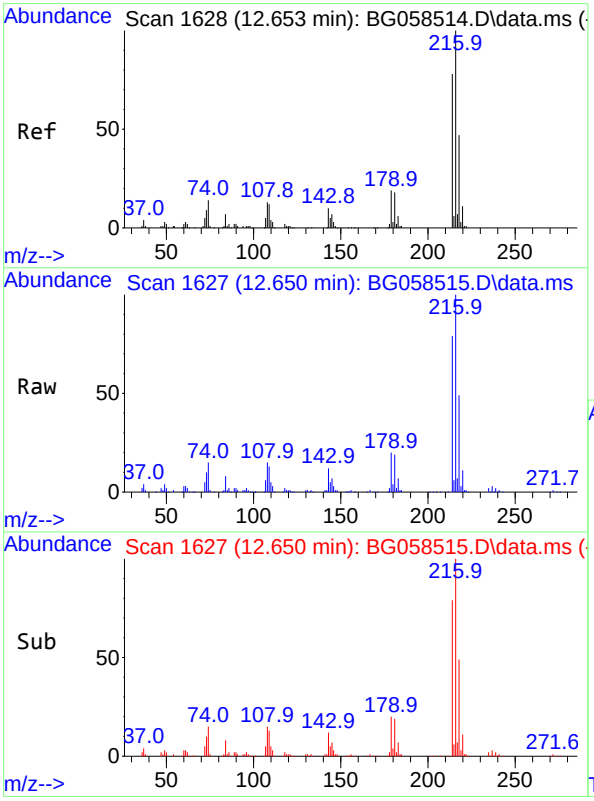
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.465 min Scan# 1
Delta R.T. 0.003 min
Lab File: BG058515.D
Acq: 28 Jul 2023 12:46

Instrument :
BNA_G
ClientSampleId :
SSTDICC050

Tgt Ion:164 Resp: 176654

Ion	Ratio	Lower	Upper
164	100		
162	97.8	78.3	117.5
160	43.8	34.1	51.1

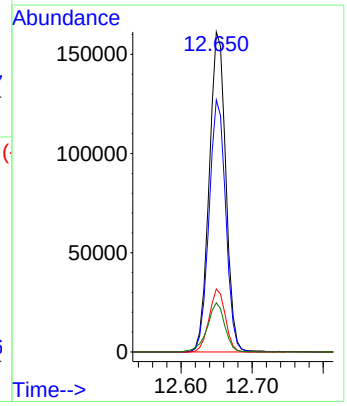


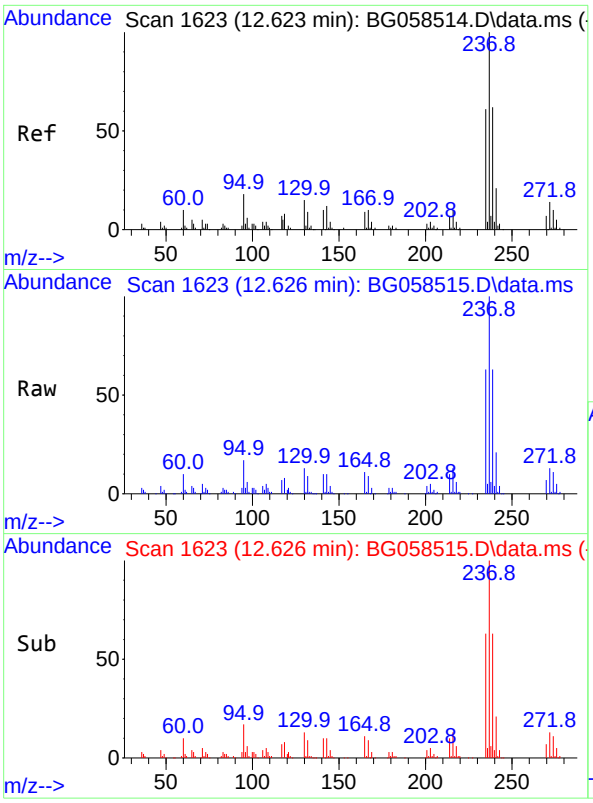


#40
1,2,4,5-Tetrachlorobenzene
Concen: 48.337 ng
RT: 12.650 min Scan# 1627
Delta R.T. -0.003 min
Lab File: BG058515.D
Acq: 28 Jul 2023 12:46

Tgt Ion:216 Resp: 262155

Ion	Ratio	Lower	Upper
216	100		
214	79.0	63.1	94.7
179	19.1	15.6	23.4
108	16.2	12.7	19.1



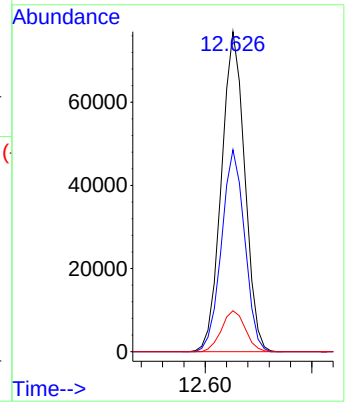


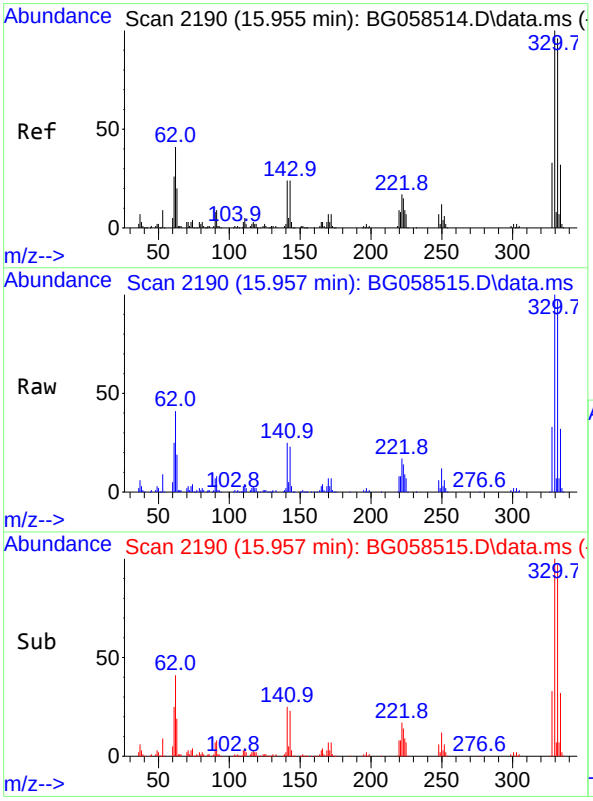
#41
Hexachlorocyclopentadiene
Concen: 49.133 ng
RT: 12.626 min Scan# 1
Delta R.T. 0.003 min
Lab File: BG058515.D
Acq: 28 Jul 2023 12:46

Instrument :
BNA_G
ClientSampleId :
SSTDICC050

Tgt Ion:237 Resp: 116530

Ion	Ratio	Lower	Upper
237	100		
235	63.1	41.0	81.0
272	12.8	0.0	33.6

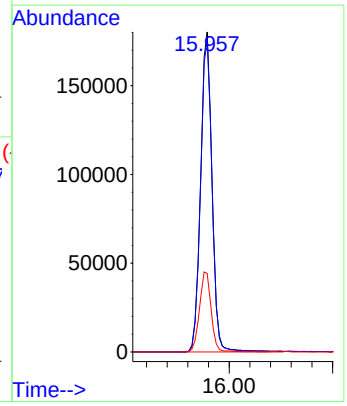


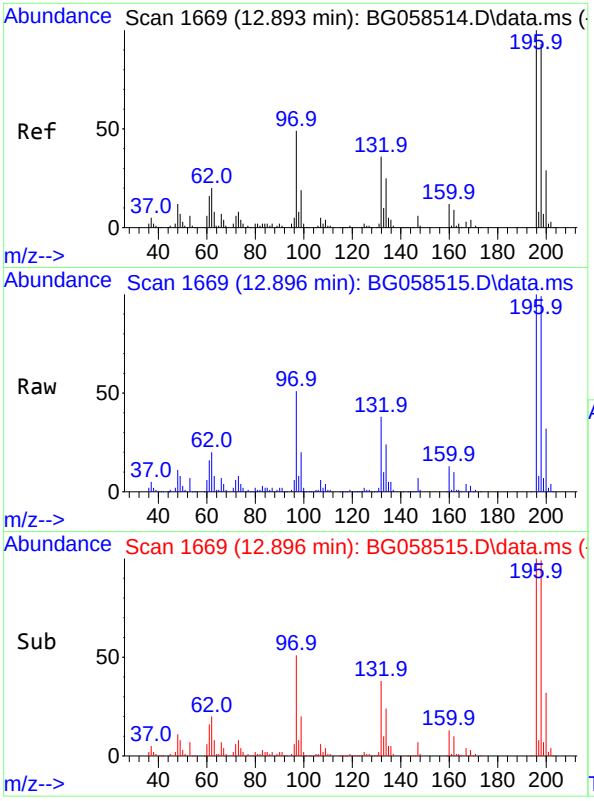


#42
2,4,6-Tribromophenol
Concen: 95.561 ng
RT: 15.957 min Scan# 2190
Delta R.T. 0.003 min
Lab File: BG058515.D
Acq: 28 Jul 2023 12:46

Tgt Ion:330 Resp: 276695

Ion	Ratio	Lower	Upper
330	100		
332	97.4	77.5	116.3
141	25.4	20.7	31.1



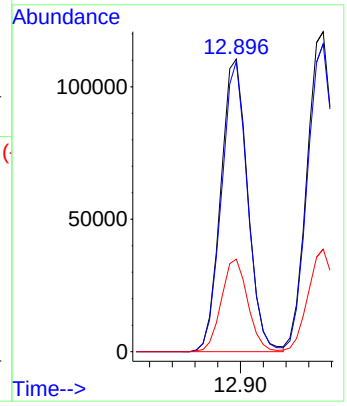


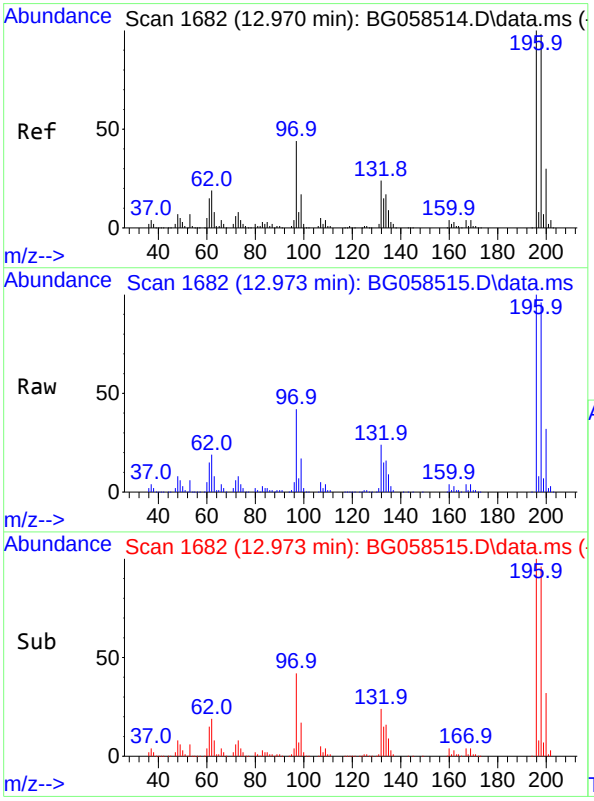
#43
2,4,6-Trichlorophenol
Concen: 48.745 ng
RT: 12.896 min Scan# 1
Delta R.T. 0.003 min
Lab File: BG058515.D
Acq: 28 Jul 2023 12:46

Instrument :
BNA_G
ClientSampleId :
SSTDICC050

Tgt Ion:196 Resp: 181834

Ion	Ratio	Lower	Upper
196	100		
198	99.3	74.2	111.4
200	31.6	22.9	34.3

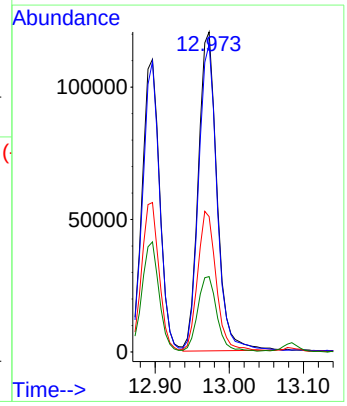


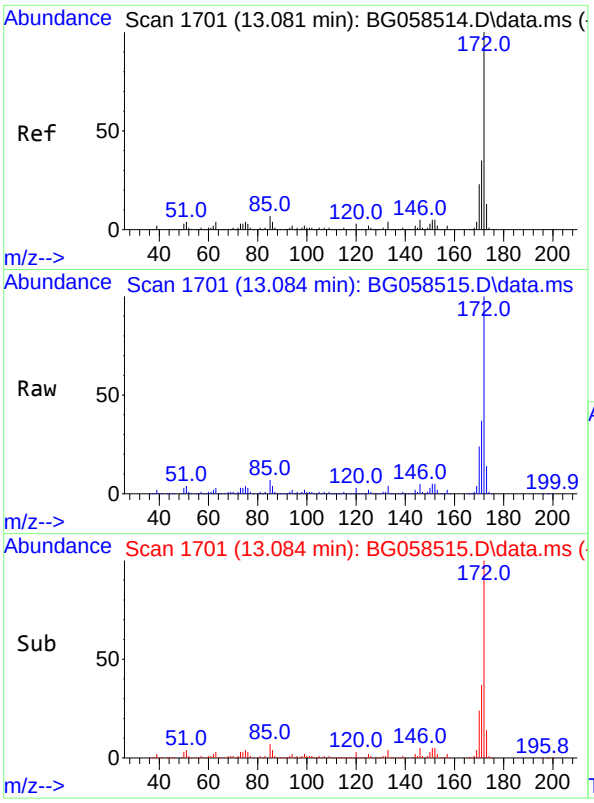


#44
2,4,5-Trichlorophenol
Concen: 48.066 ng
RT: 12.973 min Scan# 1682
Delta R.T. 0.003 min
Lab File: BG058515.D
Acq: 28 Jul 2023 12:46

Tgt Ion:196 Resp: 211191

Ion	Ratio	Lower	Upper
196	100		
198	96.2	78.3	117.5
97	42.3	35.2	52.8
132	23.5	19.4	29.0



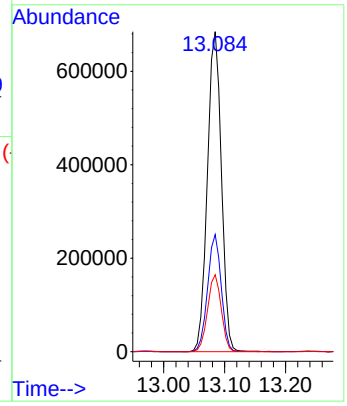


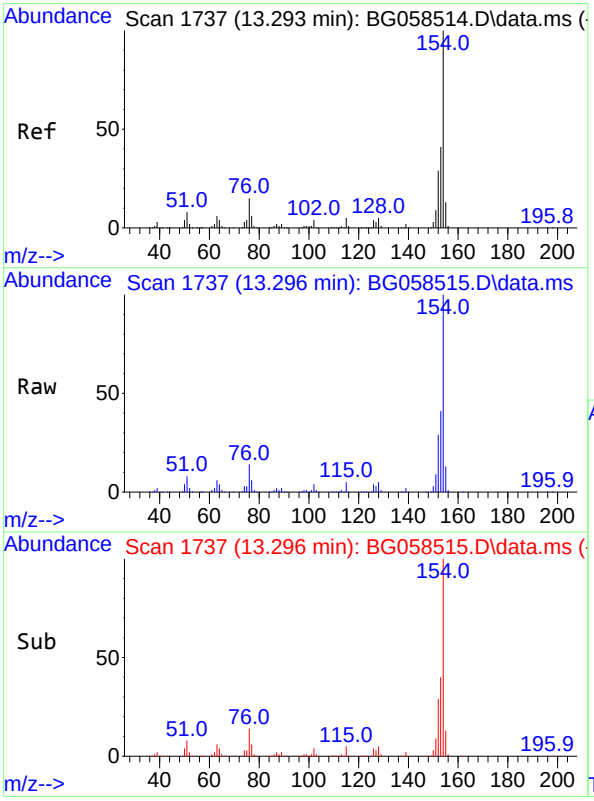
#45
2-Fluorobiphenyl
Concen: 92.894 ng
RT: 13.084 min Scan# 1
Delta R.T. 0.003 min
Lab File: BG058515.D
Acq: 28 Jul 2023 12:46

Instrument :
BNA_G
ClientSampleId :
SSTDICC050

Tgt Ion:172 Resp: 1095034

Ion	Ratio	Lower	Upper
172	100		
171	36.6	28.0	42.0
170	24.1	18.4	27.6

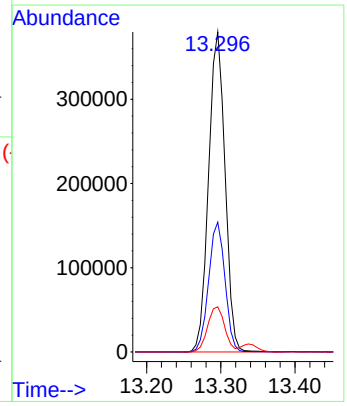


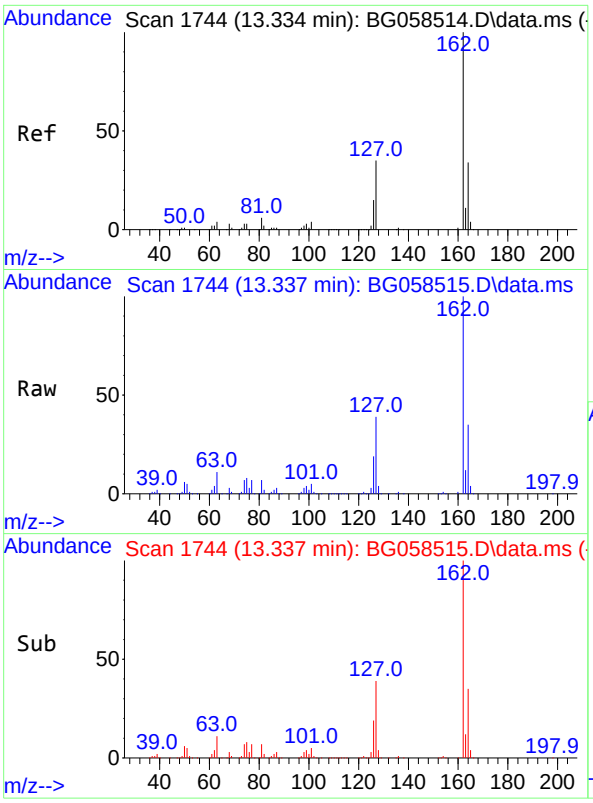


#46
1,1'-Biphenyl
Concen: 48.357 ng
RT: 13.296 min Scan# 1737
Delta R.T. 0.003 min
Lab File: BG058515.D
Acq: 28 Jul 2023 12:46

Tgt Ion:154 Resp: 586658

Ion	Ratio	Lower	Upper
154	100		
153	40.6	21.2	61.2
76	14.1	0.0	34.7



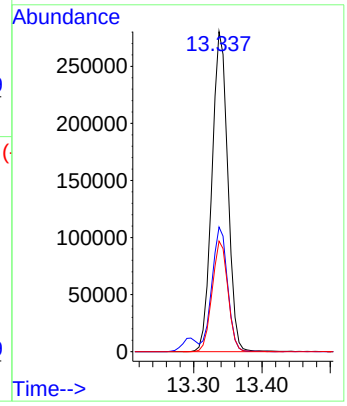


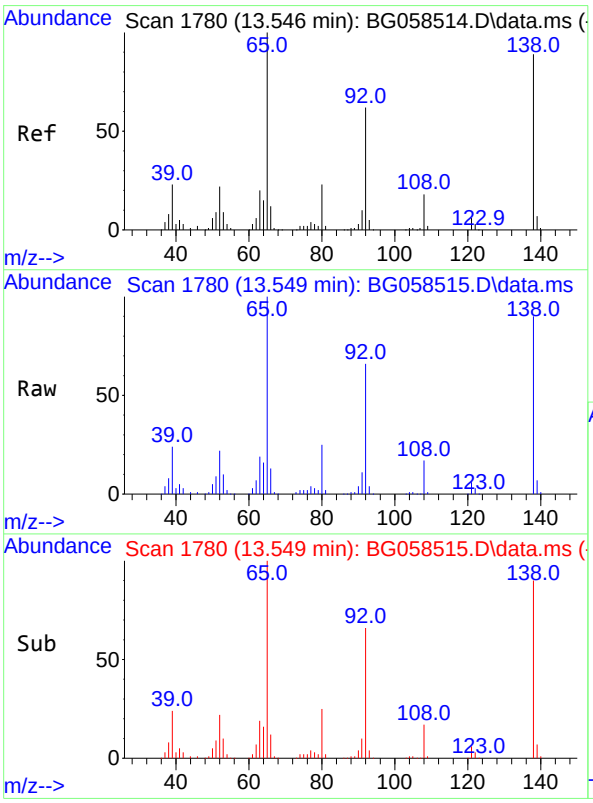
#47
2-Chloronaphthalene
Concen: 47.893 ng
RT: 13.337 min Scan# 1
Delta R.T. 0.003 min
Lab File: BG058515.D
Acq: 28 Jul 2023 12:46

Instrument :
BNA_G
ClientSampleId :
SSTDICC050

Tgt Ion:162 Resp: 453033

Ion	Ratio	Lower	Upper
162	100		
127	38.9	30.9	46.3
164	34.6	27.2	40.8

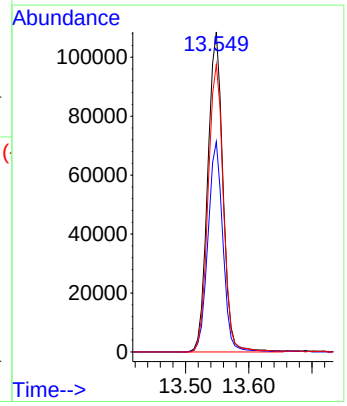


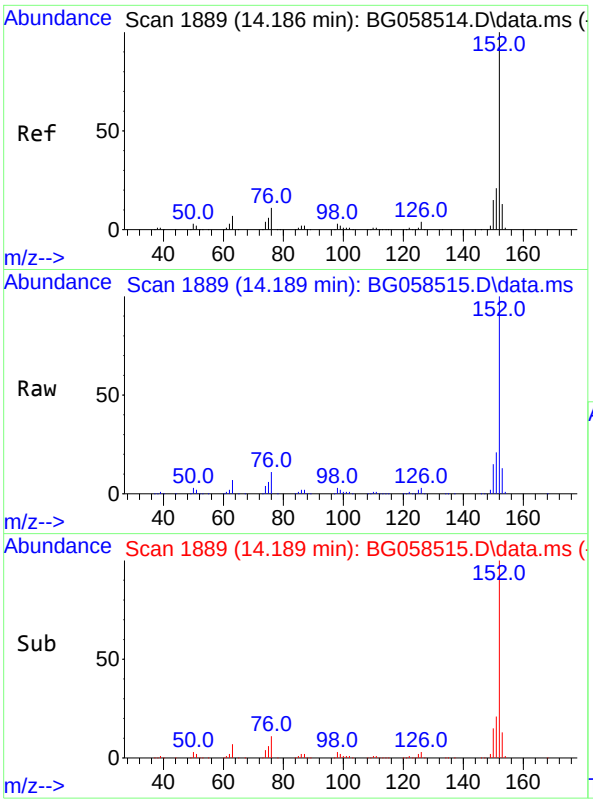


#48
2-Nitroaniline
Concen: 50.389 ng
RT: 13.549 min Scan# 1780
Delta R.T. 0.003 min
Lab File: BG058515.D
Acq: 28 Jul 2023 12:46

Tgt Ion: 65 Resp: 181927

Ion	Ratio	Lower	Upper
65	100		
92	65.7	49.2	73.8
138	89.9	71.5	107.3



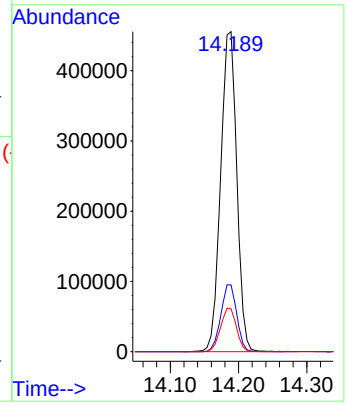


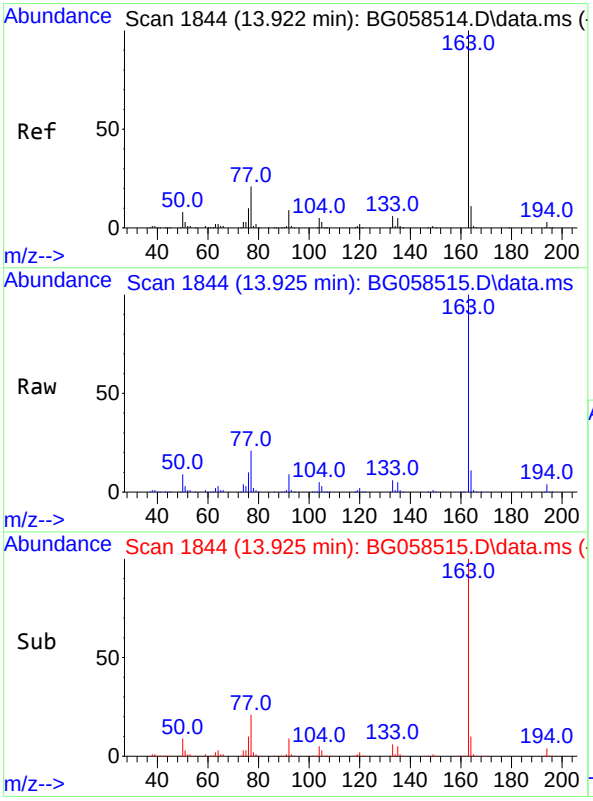
#49
Acenaphthylene
Concen: 47.318 ng
RT: 14.189 min Scan# 1
Delta R.T. 0.003 min
Lab File: BG058515.D
Acq: 28 Jul 2023 12:46

Instrument :
BNA_G
ClientSampleId :
SSTDICC050

Tgt Ion:152 Resp: 749368

Ion	Ratio	Lower	Upper
152	100		
151	20.8	16.5	24.7
153	13.4	10.7	16.1

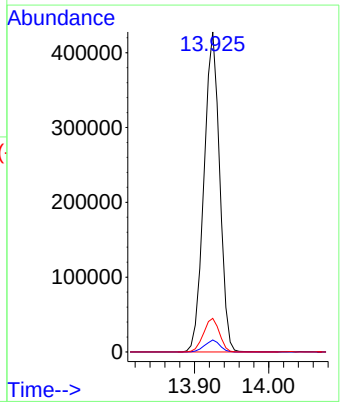


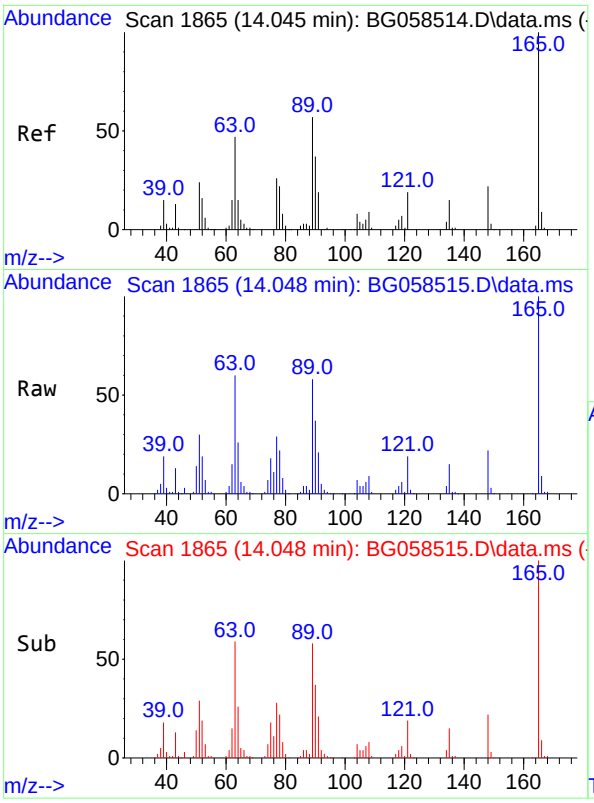


#50
Dimethylphthalate
Concen: 47.307 ng
RT: 13.925 min Scan# 1844
Delta R.T. 0.003 min
Lab File: BG058515.D
Acq: 28 Jul 2023 12:46

Tgt Ion:163 Resp: 627634

Ion	Ratio	Lower	Upper
163	100		
194	3.8	2.7	4.1
164	10.5	8.6	12.8



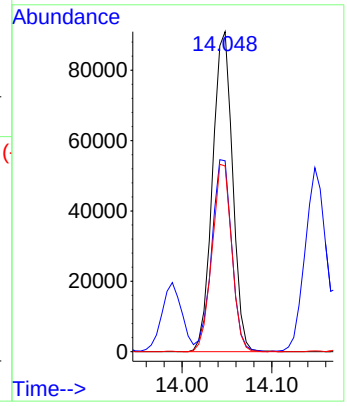


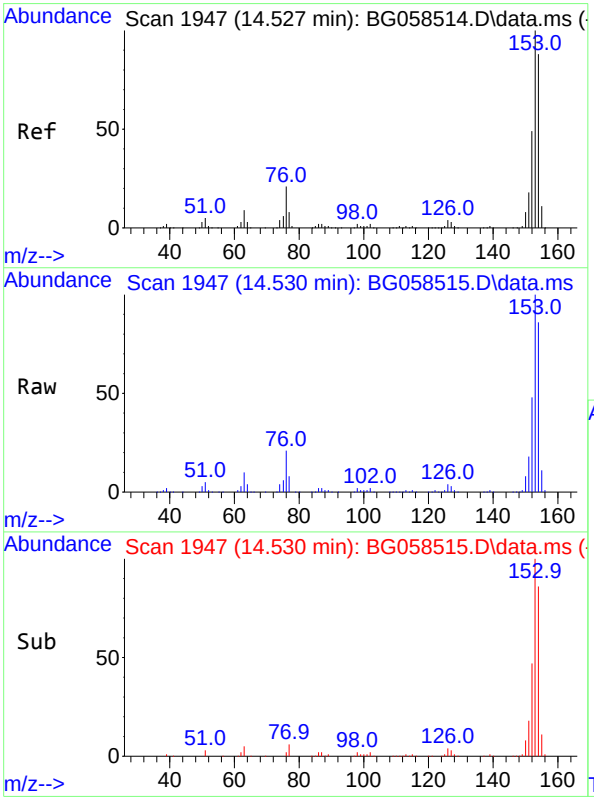
#51
2,6-Dinitrotoluene
Concen: 48.411 ng
RT: 14.048 min Scan# 1
Delta R.T. 0.003 min
Lab File: BG058515.D
Acq: 28 Jul 2023 12:46

Instrument :
BNA_G
ClientSampleId :
SSTDICC050

Tgt Ion:165 Resp: 140926

Ion	Ratio	Lower	Upper
165	100		
63	59.6	46.4	69.6
89	58.1	45.3	67.9

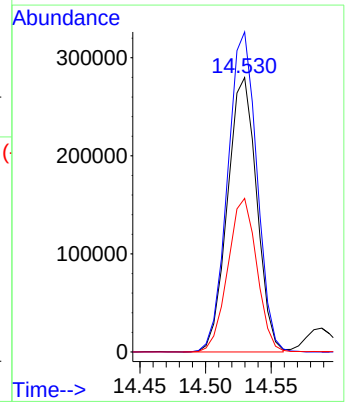


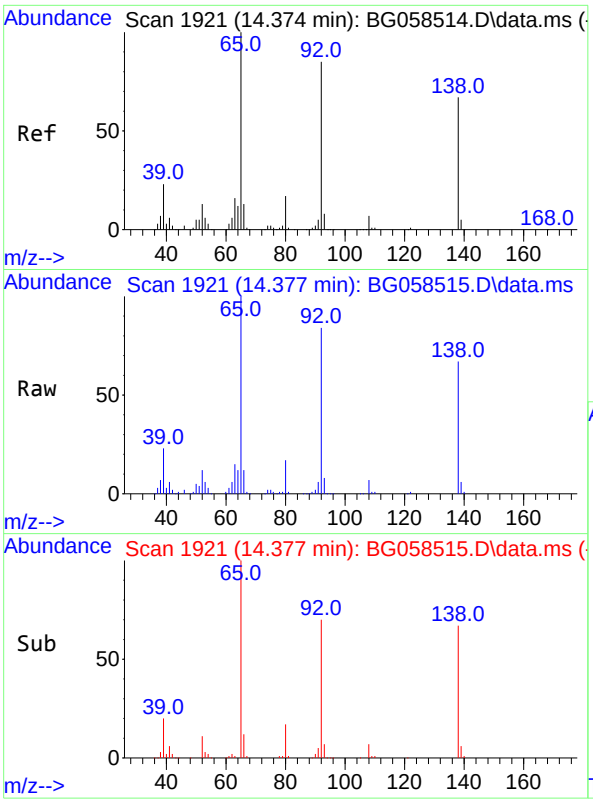


#52
Acenaphthene
Concen: 47.338 ng
RT: 14.530 min Scan# 1947
Delta R.T. 0.003 min
Lab File: BG058515.D
Acq: 28 Jul 2023 12:46

Tgt Ion:154 Resp: 433181

Ion	Ratio	Lower	Upper
154	100		
153	116.6	91.1	136.7
152	56.0	44.6	66.8



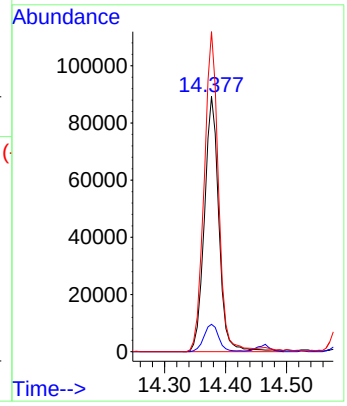


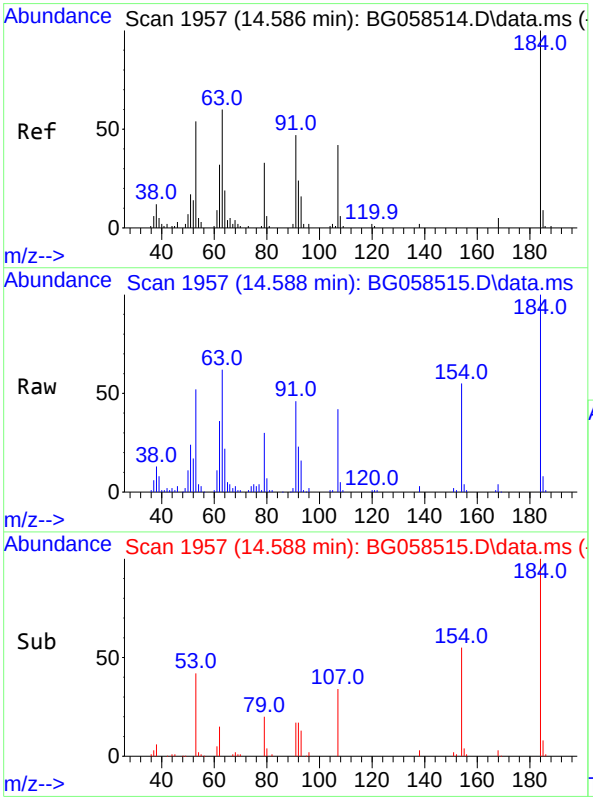
#53
3-Nitroaniline
Concen: 50.473 ng
RT: 14.377 min Scan# 1
Delta R.T. 0.003 min
Lab File: BG058515.D
Acq: 28 Jul 2023 12:46

Instrument :
BNA_G
ClientSampleId :
SSTDICC050

Tgt Ion:138 Resp: 147003

Ion	Ratio	Lower	Upper
138	100		
108	10.7	8.3	12.5
92	125.4	101.1	151.7

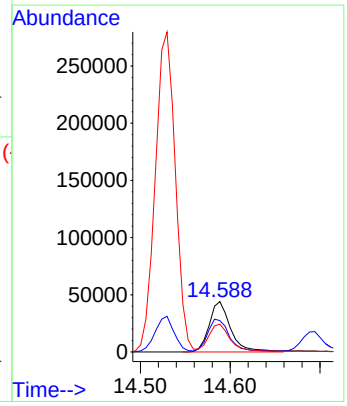


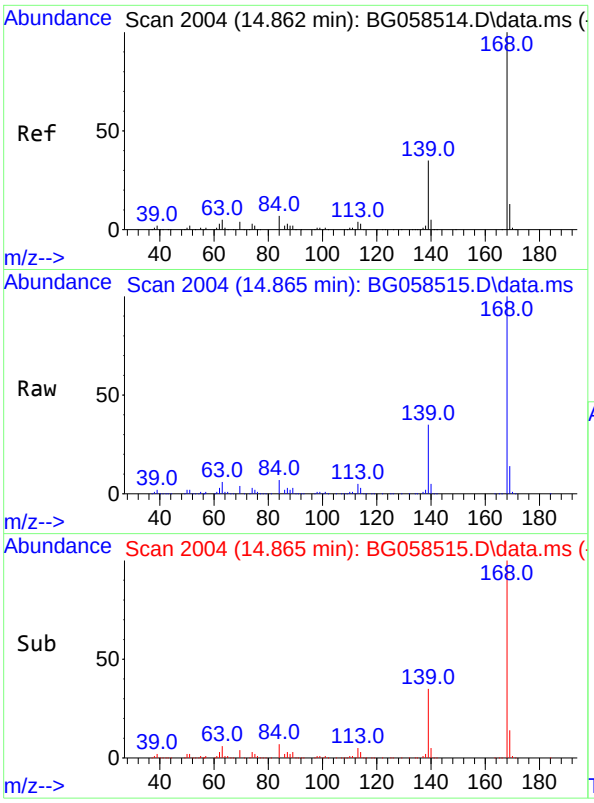


#54
2,4-Dinitrophenol
Concen: 47.935 ng
RT: 14.588 min Scan# 1957
Delta R.T. 0.002 min
Lab File: BG058515.D
Acq: 28 Jul 2023 12:46

Tgt Ion:184 Resp: 73231

Ion	Ratio	Lower	Upper
184	100		
63	62.0	56.7	85.1
154	55.3	46.1	69.1



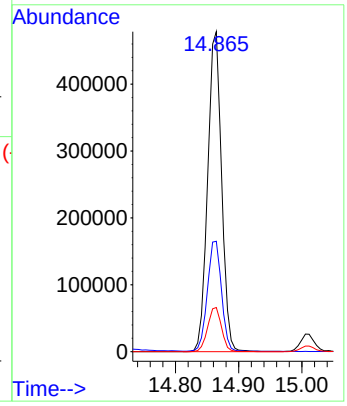


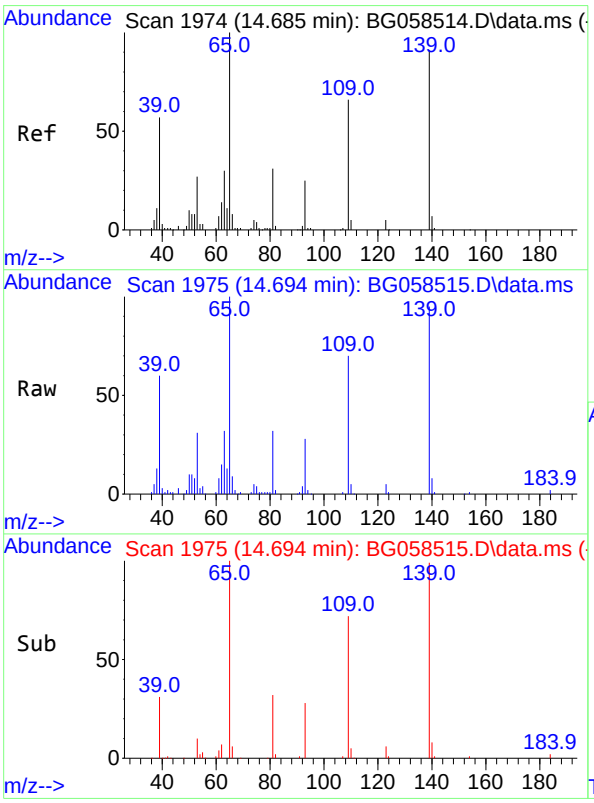
#55
Dibenzofuran
Concen: 46.641 ng
RT: 14.865 min Scan# 2
Delta R.T. 0.003 min
Lab File: BG058515.D
Acq: 28 Jul 2023 12:46

Instrument :
BNA_G
ClientSampleId :
SSTDICC050

Tgt Ion:168 Resp: 733381

Ion	Ratio	Lower	Upper
168	100		
139	34.5	27.8	41.8
169	13.8	10.6	16.0

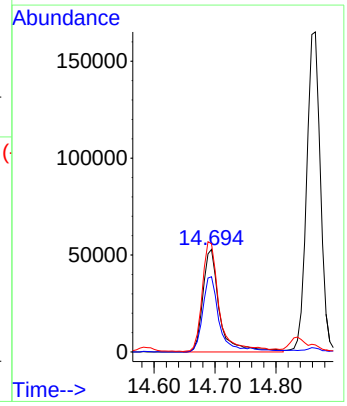


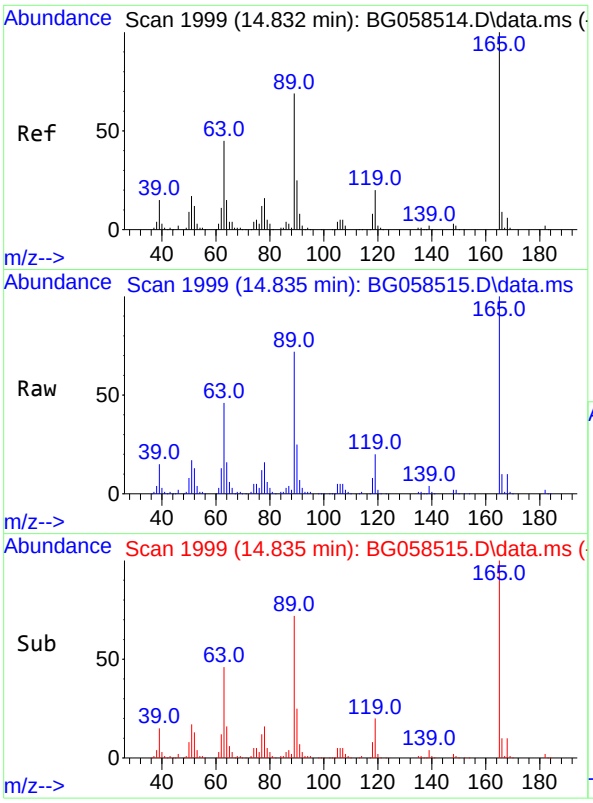


#56
4-Nitrophenol
Concen: 48.166 ng
RT: 14.694 min Scan# 1975
Delta R.T. 0.009 min
Lab File: BG058515.D
Acq: 28 Jul 2023 12:46

Tgt Ion:139 Resp: 100774

Ion	Ratio	Lower	Upper
139	100		
109	73.4	52.5	92.5
65	105.5	90.5	130.5



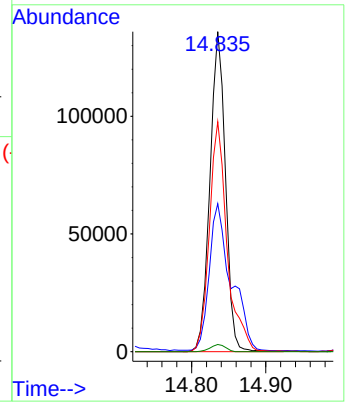


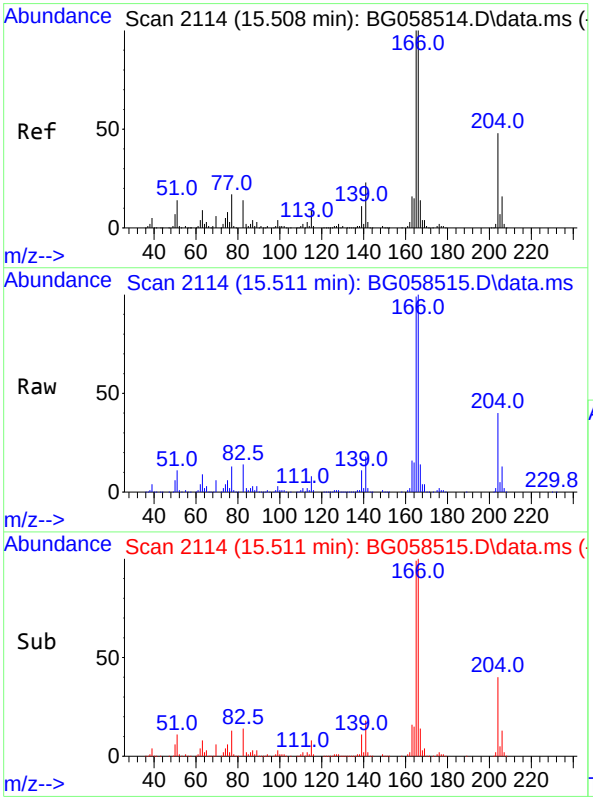
#57
2,4-Dinitrotoluene
Concen: 49.024 ng
RT: 14.835 min Scan# 1
Delta R.T. 0.003 min
Lab File: BG058515.D
Acq: 28 Jul 2023 12:46

Instrument :
BNA_G
ClientSampleId :
SSTDICC050

Tgt Ion:165 Resp: 197851

Ion	Ratio	Lower	Upper
165	100		
63	46.3	36.6	54.8
89	71.8	55.4	83.0
182	2.2	1.8	2.6

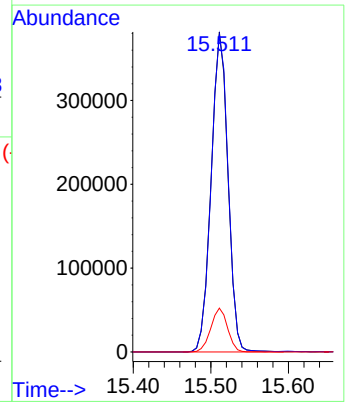


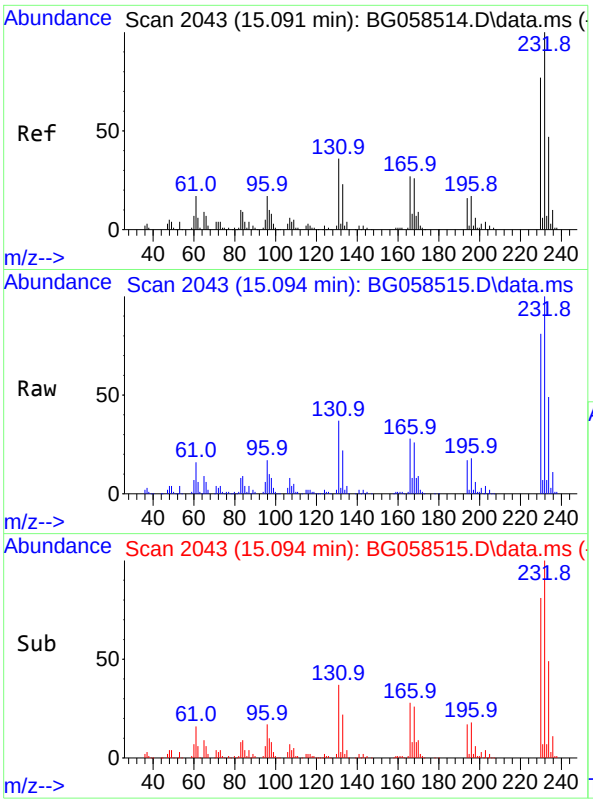


#58
Fluorene
Concen: 46.087 ng
RT: 15.511 min Scan# 2114
Delta R.T. 0.003 min
Lab File: BG058515.D
Acq: 28 Jul 2023 12:46

Tgt Ion:166 Resp: 575685

Ion	Ratio	Lower	Upper
166	100		
165	99.0	80.0	120.0
167	13.7	11.3	16.9



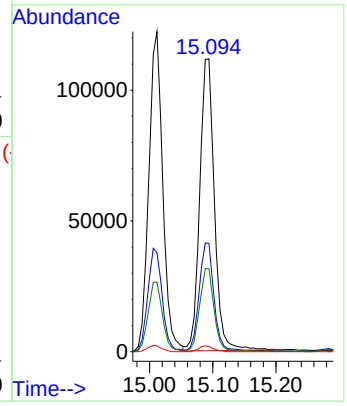


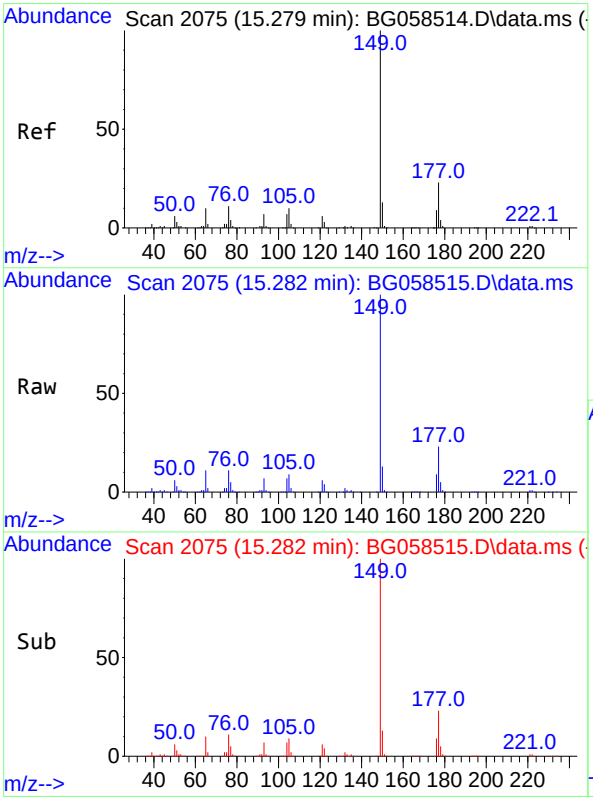
#59
2,3,4,6-Tetrachlorophenol
Concen: 48.024 ng
RT: 15.094 min Scan# 2
Delta R.T. 0.003 min
Lab File: BG058515.D
Acq: 28 Jul 2023 12:46

Instrument :
BNA_G
ClientSampleId :
SSTDICC050

Tgt Ion:232 Resp: 180056

Ion	Ratio	Lower	Upper
232	100		
131	36.8	30.0	45.0
130	1.9	1.5	2.3
166	27.4	22.8	34.2

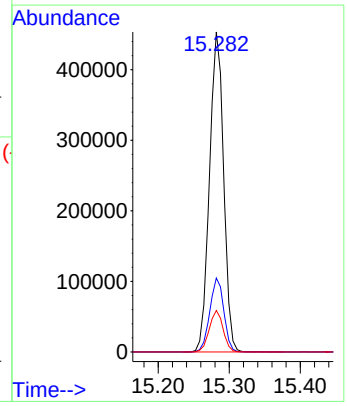


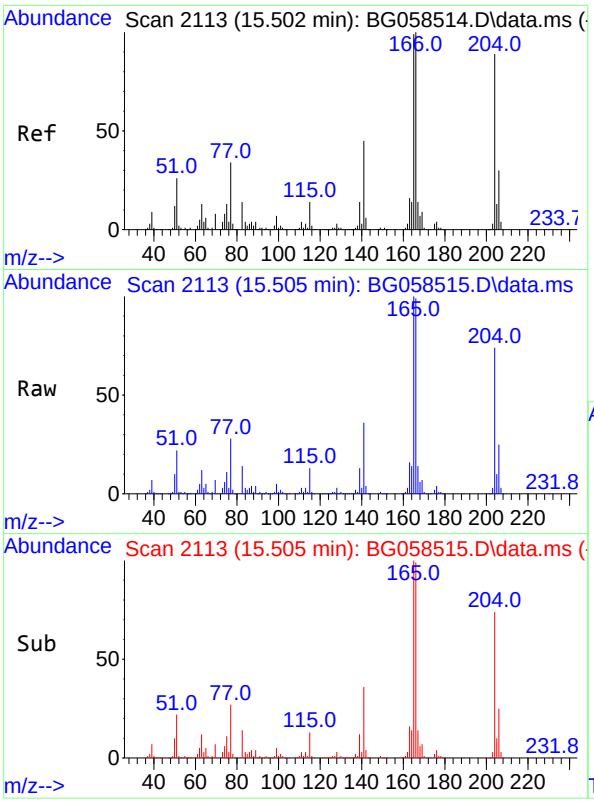


#60
Diethylphthalate
Concen: 46.476 ng
RT: 15.282 min Scan# 2075
Delta R.T. 0.003 min
Lab File: BG058515.D
Acq: 28 Jul 2023 12:46

Tgt Ion:149 Resp: 628171

Ion	Ratio	Lower	Upper
149	100		
177	23.1	18.2	27.4
150	13.0	10.2	15.4



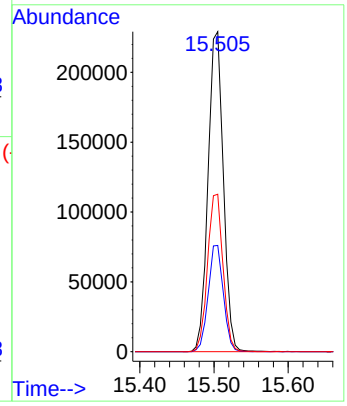


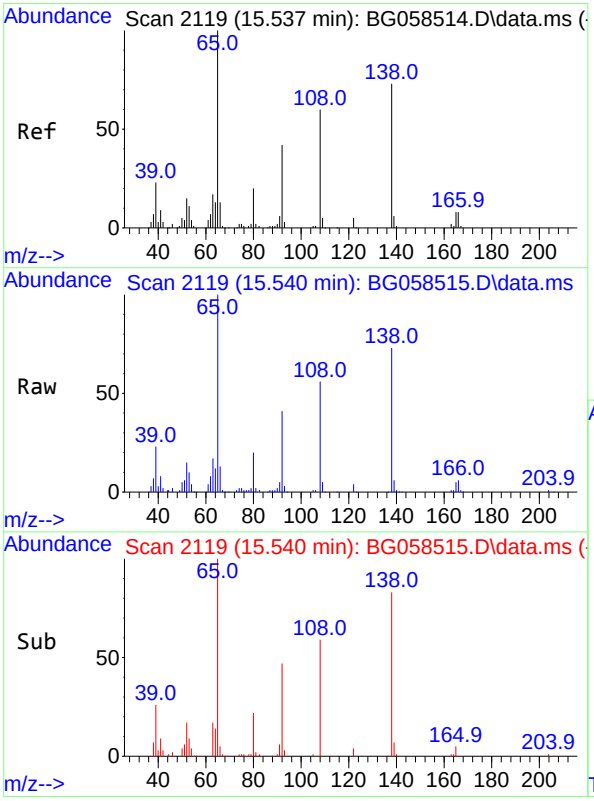
#61
4-Chlorophenyl-phenylether
Concen: 47.208 ng
RT: 15.505 min Scan# 21
Delta R.T. 0.003 min
Lab File: BG058515.D
Acq: 28 Jul 2023 12:46

Instrument :
BNA_G
ClientSampleId :
SSTDICC050

Tgt Ion:204 Resp: 328759

Ion	Ratio	Lower	Upper
204	100		
206	33.2	27.0	40.4
141	49.2	40.8	61.2

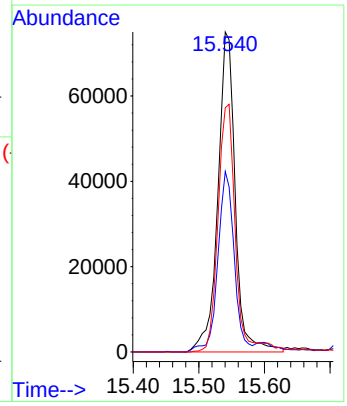


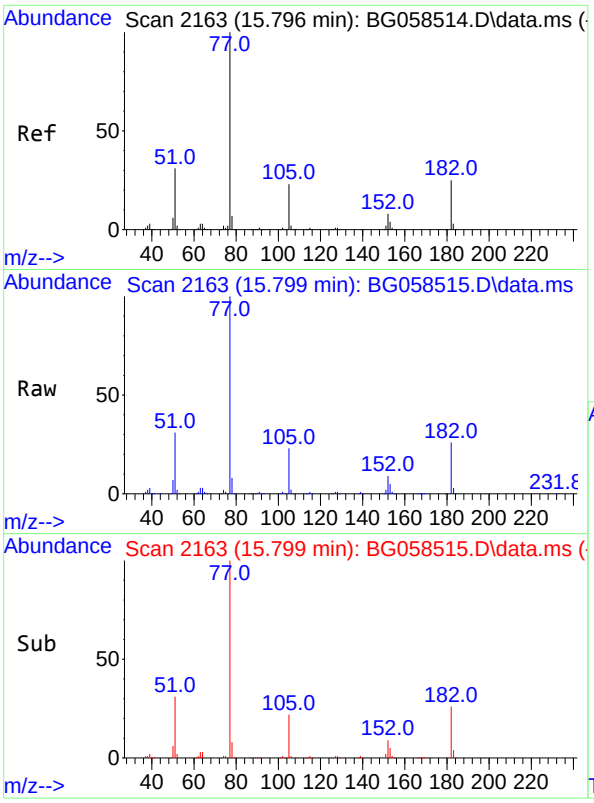


#62
4-Nitroaniline
Concen: 50.287 ng
RT: 15.540 min Scan# 2119
Delta R.T. 0.003 min
Lab File: BG058515.D
Acq: 28 Jul 2023 12:46

Tgt Ion:138 Resp: 137643

Ion	Ratio	Lower	Upper
138	100		
92	56.4	37.3	77.3
108	76.3	62.6	102.6



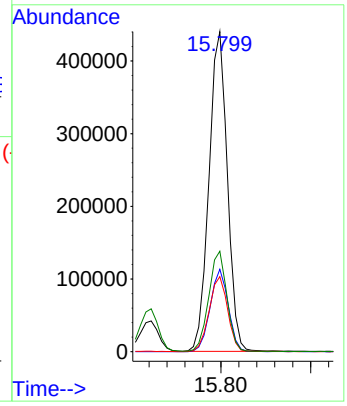


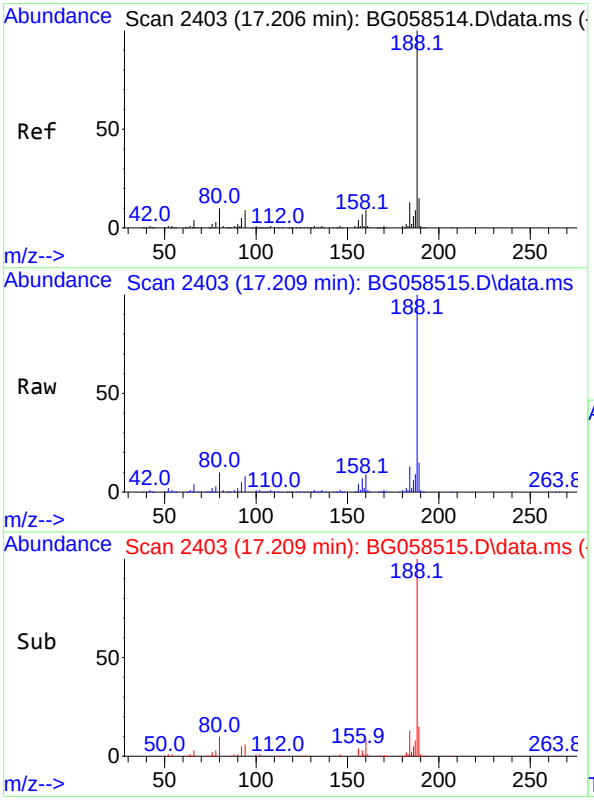
#63
Azobenzene
Concen: 46.959 ng
RT: 15.799 min Scan# 21
Delta R.T. 0.003 min
Lab File: BG058515.D
Acq: 28 Jul 2023 12:46

Instrument :
BNA_G
ClientSampleId :
SSTDICC050

Tgt Ion: 77 Resp: 625153

Ion	Ratio	Lower	Upper
77	100		
182	25.8	4.6	44.6
105	23.5	3.3	43.3
51	31.4	10.9	50.9

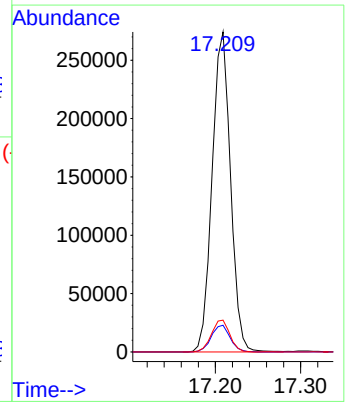


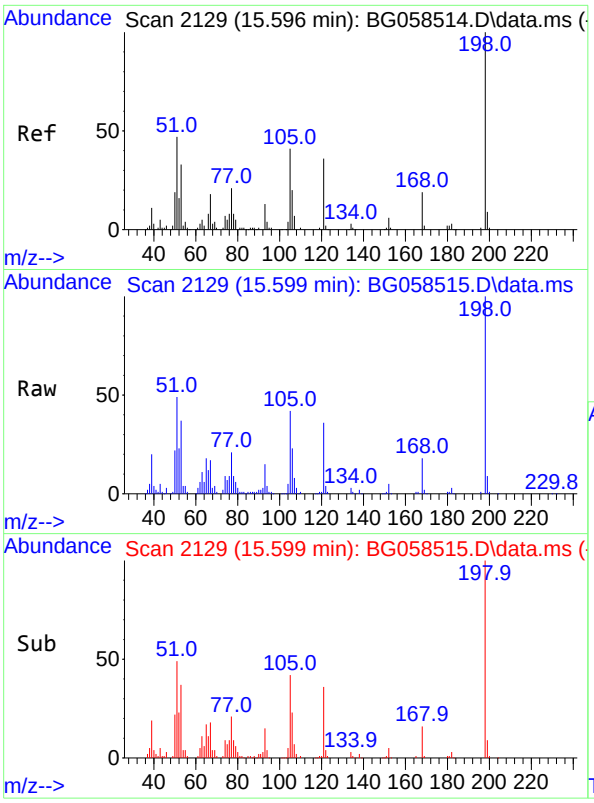


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.209 min Scan# 2403
Delta R.T. 0.003 min
Lab File: BG058515.D
Acq: 28 Jul 2023 12:46

Tgt Ion:188 Resp: 411690

Ion	Ratio	Lower	Upper
188	100		
94	8.4	7.0	10.6
80	10.0	8.1	12.1



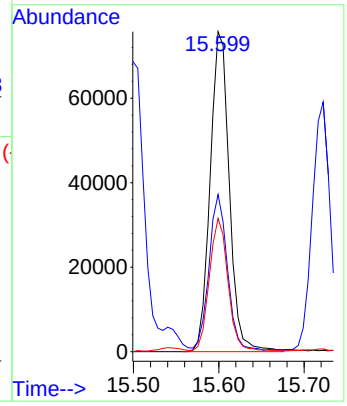


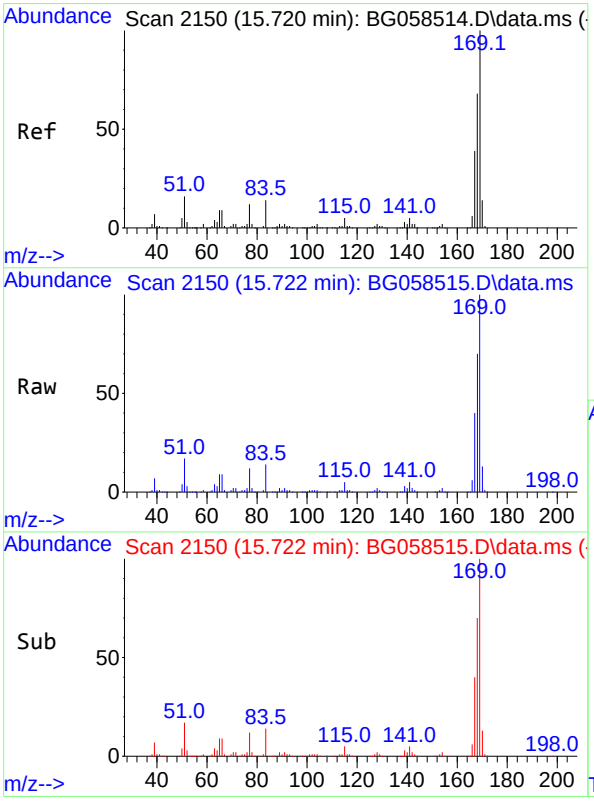
#65
4,6-Dinitro-2-methylphenol
Concen: 52.080 ng
RT: 15.599 min Scan# 21
Delta R.T. 0.003 min
Lab File: BG058515.D
Acq: 28 Jul 2023 12:46

Instrument :
BNA_G
ClientSampleId :
SSTDICC050

Tgt Ion:198 Resp: 118222

Ion	Ratio	Lower	Upper
198	100		
51	49.1	29.3	69.3
105	41.6	21.0	61.0

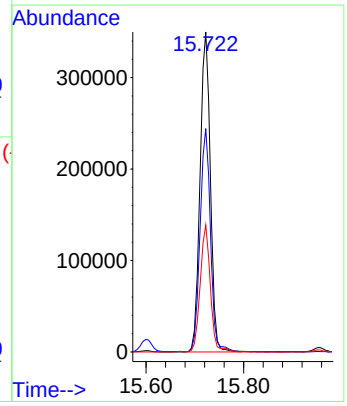


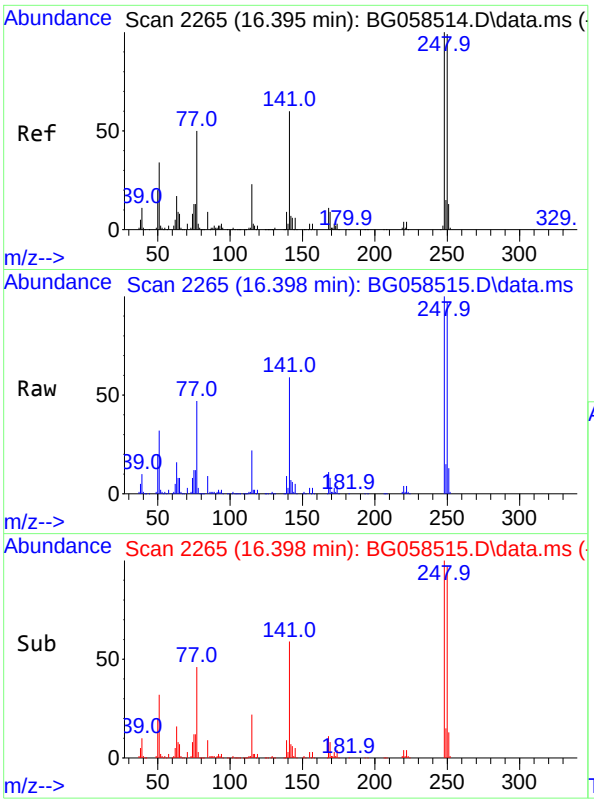


#66
n-Nitrosodiphenylamine
Concen: 48.239 ng
RT: 15.722 min Scan# 2150
Delta R.T. 0.003 min
Lab File: BG058515.D
Acq: 28 Jul 2023 12:46

Tgt Ion:169 Resp: 516889

Ion	Ratio	Lower	Upper
169	100		
168	69.8	54.6	82.0
167	39.7	31.3	46.9



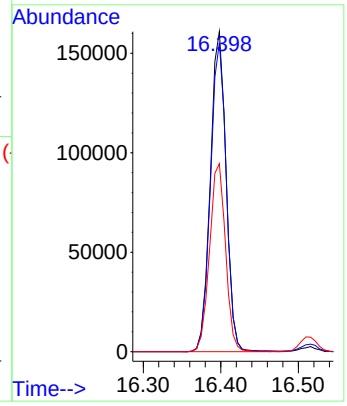


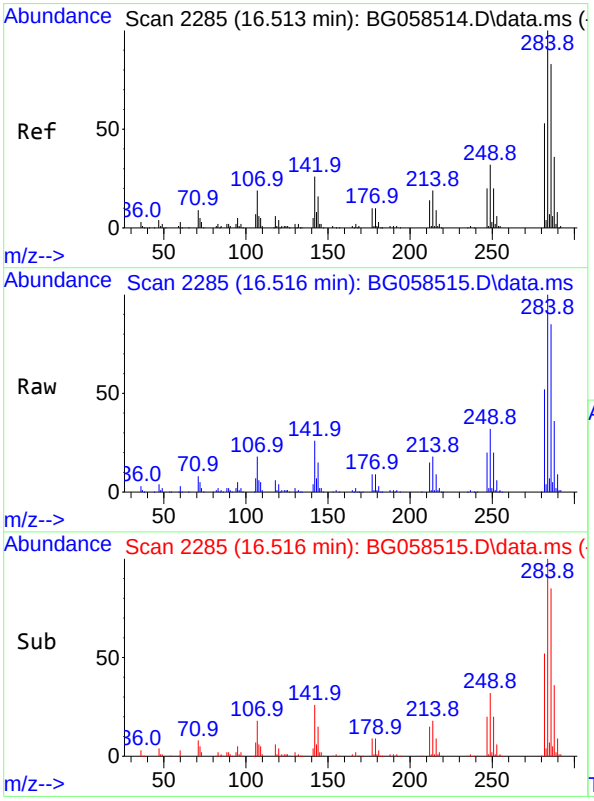
#67
4-Bromophenyl-phenylether
Concen: 48.530 ng
RT: 16.398 min Scan# 2
Delta R.T. 0.003 min
Lab File: BG058515.D
Acq: 28 Jul 2023 12:46

Instrument :
BNA_G
ClientSampleId :
SSTDICC050

Tgt Ion:248 Resp: 226607

Ion	Ratio	Lower	Upper
248	100		
250	96.5	79.5	119.3
141	58.8	48.2	72.2

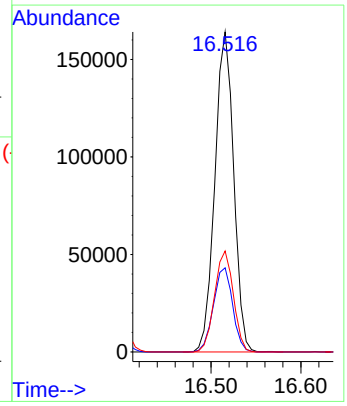


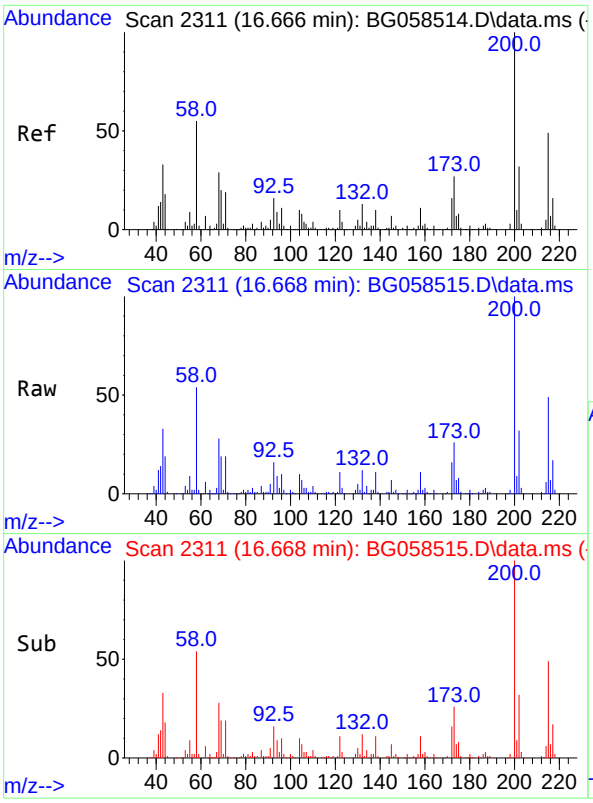


#68
Hexachlorobenzene
Concen: 48.176 ng
RT: 16.516 min Scan# 2285
Delta R.T. 0.003 min
Lab File: BG058515.D
Acq: 28 Jul 2023 12:46

Tgt Ion:284 Resp: 238376

Ion	Ratio	Lower	Upper
284	100		
142	26.3	21.0	31.4
249	31.5	25.5	38.3



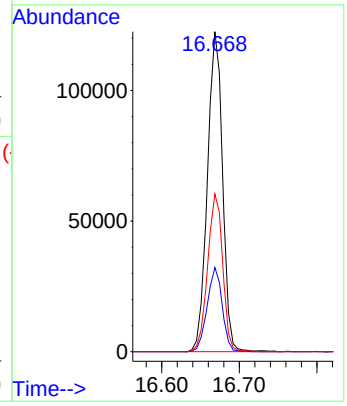


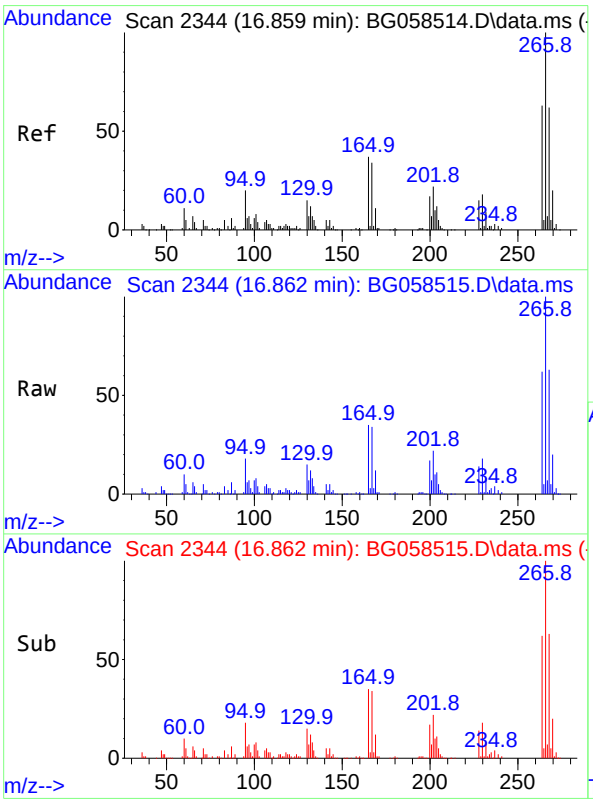
#69
Atrazine
Concen: 45.919 ng
RT: 16.668 min Scan# 2
Delta R.T. 0.003 min
Lab File: BG058515.D
Acq: 28 Jul 2023 12:46

Instrument :
BNA_G
ClientSampleId :
SSTDICC050

Tgt Ion:200 Resp: 166099

Ion	Ratio	Lower	Upper
200	100		
173	26.3	6.5	46.5
215	49.3	28.9	68.9

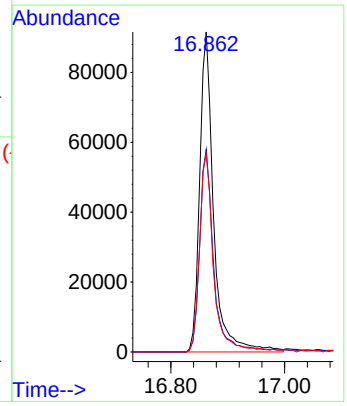


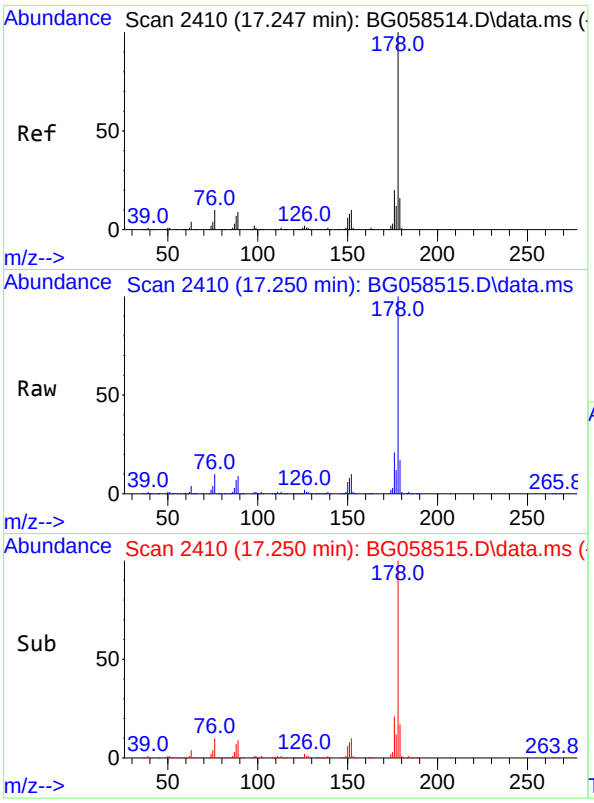


#70
Pentachlorophenol
Concen: 52.438 ng
RT: 16.862 min Scan# 2344
Delta R.T. 0.003 min
Lab File: BG058515.D
Acq: 28 Jul 2023 12:46

Tgt Ion:266 Resp: 156348

Ion	Ratio	Lower	Upper
266	100		
268	63.2	49.9	74.9
264	61.9	50.2	75.4



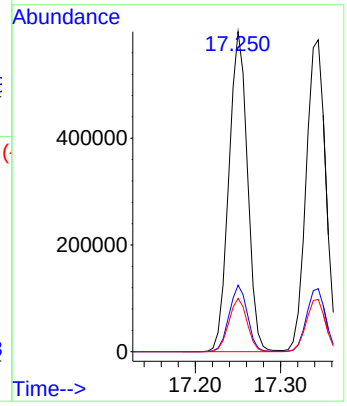


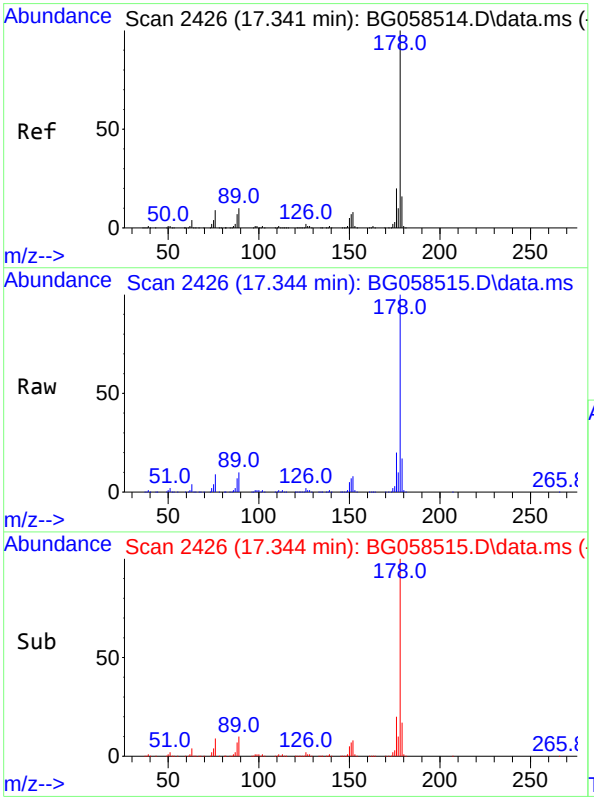
#71
Phenanthrene
Concen: 46.527 ng
RT: 17.250 min Scan# 24
Delta R.T. 0.003 min
Lab File: BG058515.D
Acq: 28 Jul 2023 12:46

Instrument :
BNA_G
ClientSampleId :
SSTDICC050

Tgt Ion:178 Resp: 908394

Ion	Ratio	Lower	Upper
178	100		
176	20.8	16.3	24.5
179	16.7	13.1	19.7

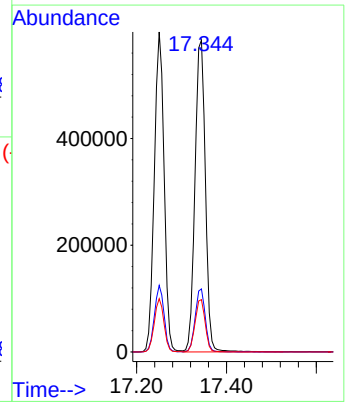


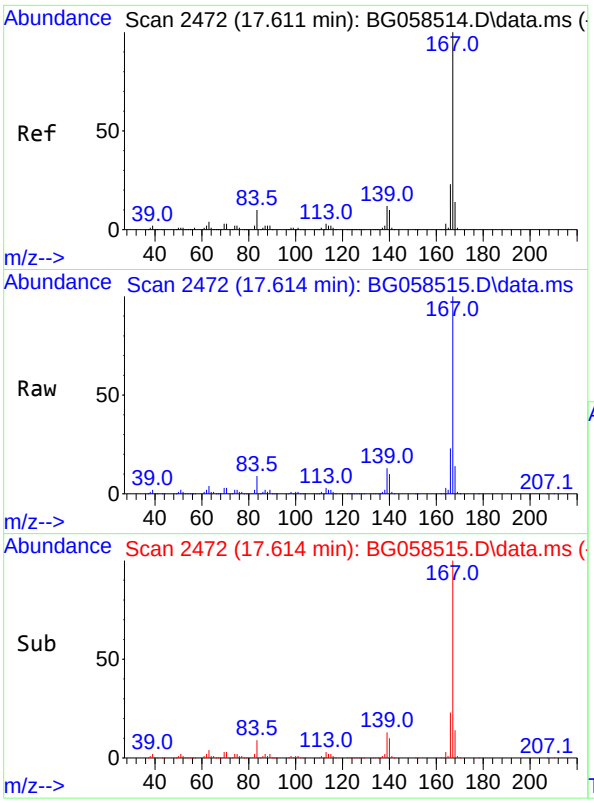


#72
Anthracene
Concen: 46.792 ng
RT: 17.344 min Scan# 2426
Delta R.T. 0.003 min
Lab File: BG058515.D
Acq: 28 Jul 2023 12:46

Tgt Ion:178 Resp: 937391

Ion	Ratio	Lower	Upper
178	100		
176	20.2	16.0	24.0
179	16.8	12.9	19.3



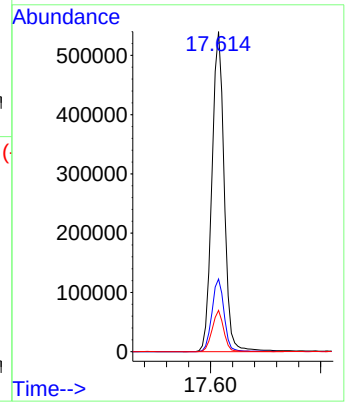


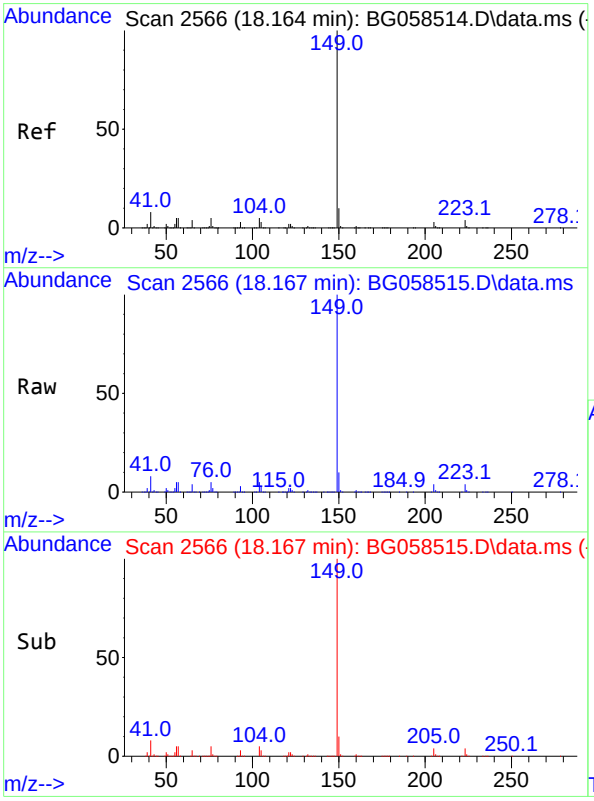
#73
Carbazole
Concen: 47.295 ng
RT: 17.614 min Scan# 24
Delta R.T. 0.003 min
Lab File: BG058515.D
Acq: 28 Jul 2023 12:46

Instrument :
BNA_G
ClientSampleId :
SSTDICC050

Tgt Ion:167 Resp: 835516

Ion	Ratio	Lower	Upper
167	100		
166	22.7	18.4	27.6
139	12.9	10.0	15.0

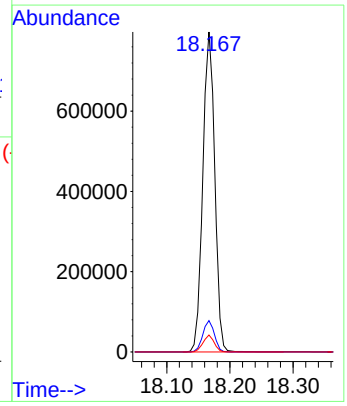


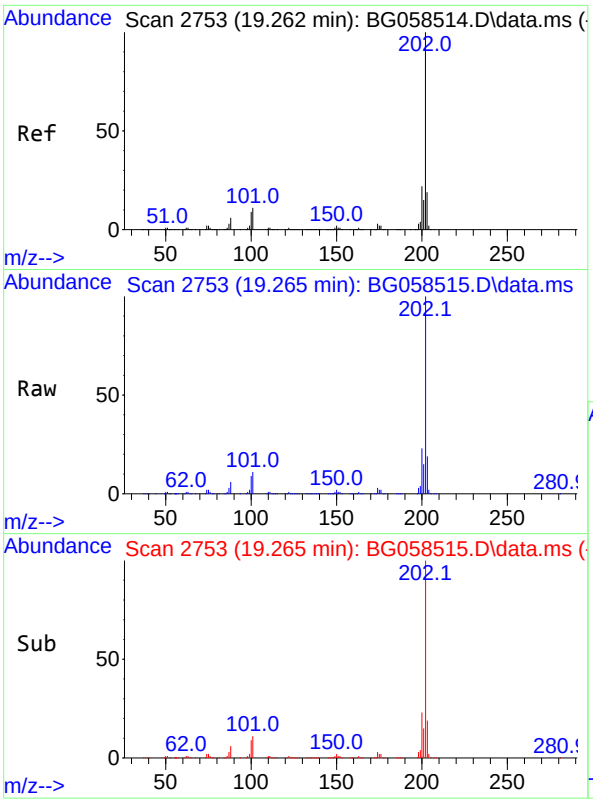


#74
Di-n-butylphthalate
Concen: 47.123 ng
RT: 18.167 min Scan# 2566
Delta R.T. 0.003 min
Lab File: BG058515.D
Acq: 28 Jul 2023 12:46

Tgt Ion:149 Resp: 1042716

Ion	Ratio	Lower	Upper
149	100		
150	9.8	7.8	11.6
104	5.3	4.0	6.0



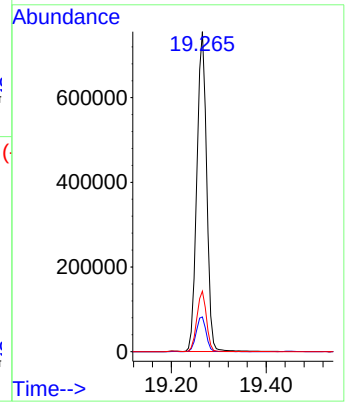


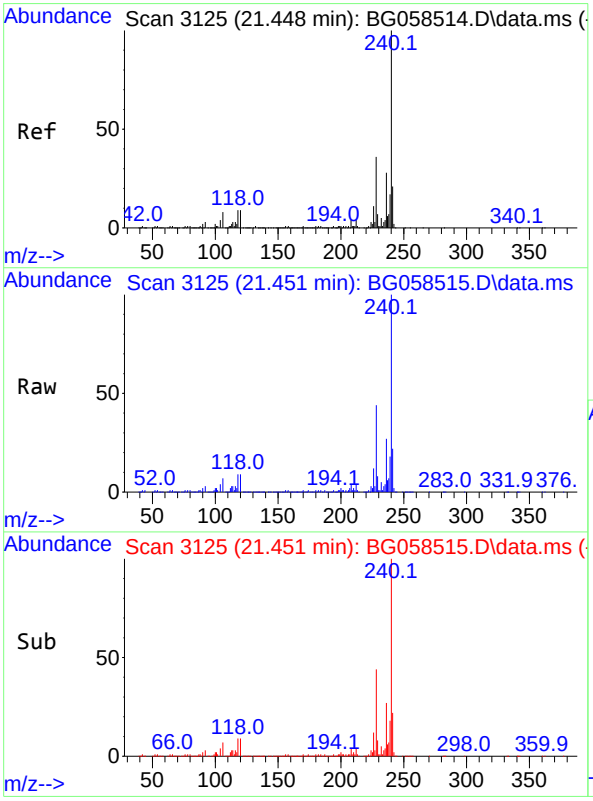
#75
Fluoranthene
Concen: 45.987 ng
RT: 19.265 min Scan# 2
Delta R.T. 0.003 min
Lab File: BG058515.D
Acq: 28 Jul 2023 12:46

Instrument :
BNA_G
ClientSampleId :
SSTDICC050

Tgt Ion:202 Resp: 1078526

Ion	Ratio	Lower	Upper
202	100		
101	10.8	0.0	31.4
203	18.9	0.0	39.0

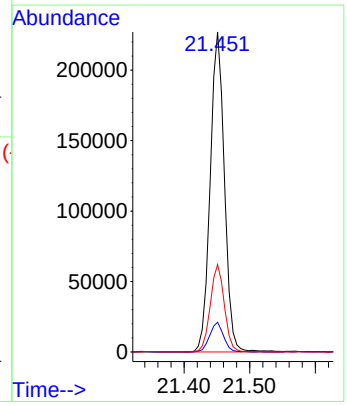


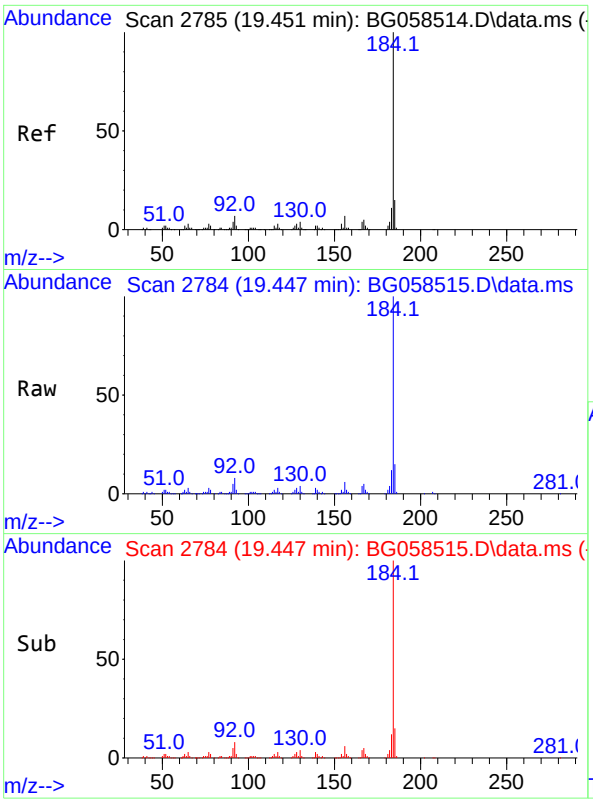


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.451 min Scan# 3125
Delta R.T. 0.003 min
Lab File: BG058515.D
Acq: 28 Jul 2023 12:46

Tgt Ion:240 Resp: 342944

Ion	Ratio	Lower	Upper
240	100		
120	9.3	7.4	11.0
236	27.3	22.2	33.4



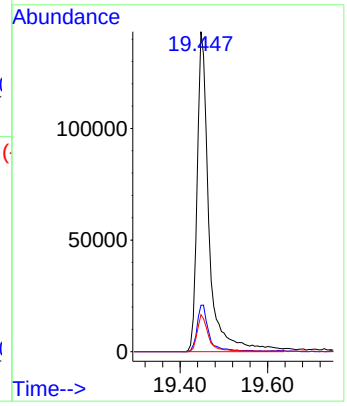


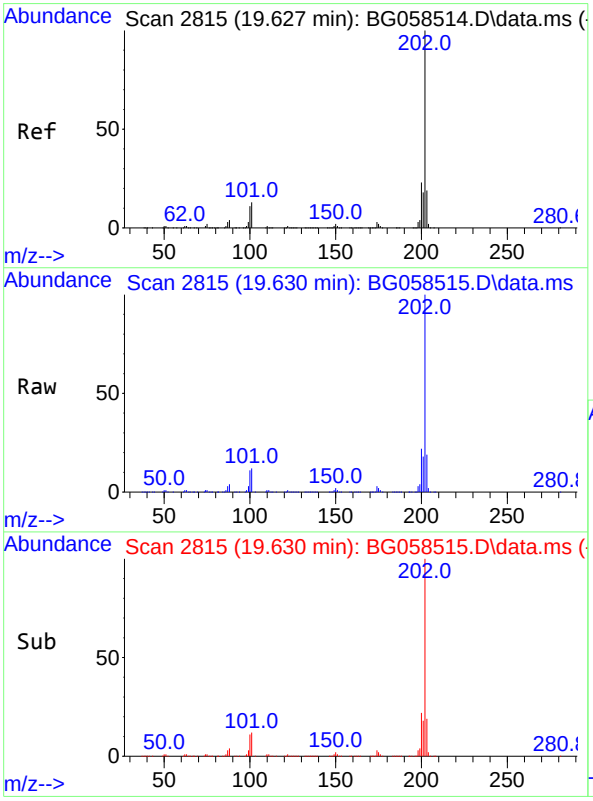
#77
Benzidine
Concen: 52.218 ng
RT: 19.447 min Scan# 2
Delta R.T. -0.003 min
Lab File: BG058515.D
Acq: 28 Jul 2023 12:46

Instrument :
BNA_G
ClientSampleId :
SSTDICC050

Tgt Ion:184 Resp: 271557

Ion	Ratio	Lower	Upper
184	100		
185	14.5	11.9	17.9
183	11.5	8.7	13.1

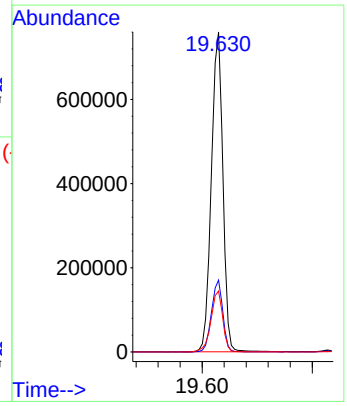


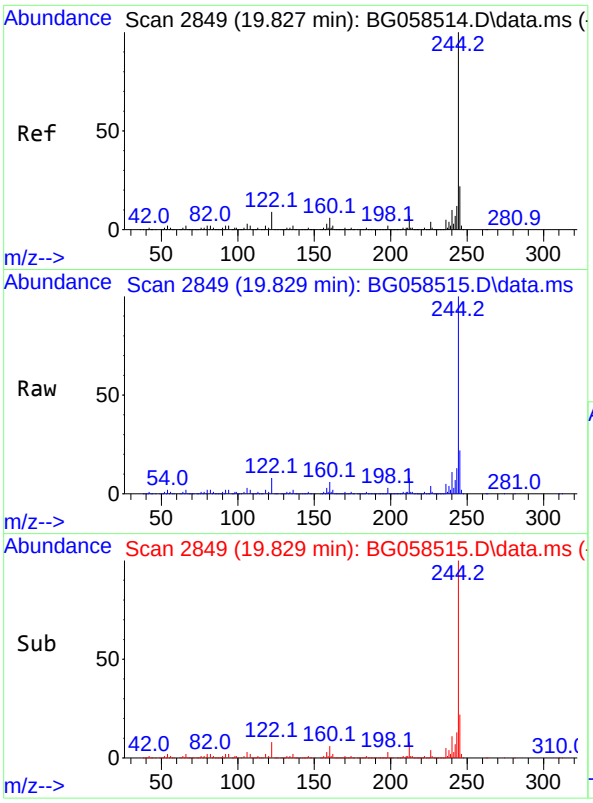


#78
Pyrene
Concen: 47.280 ng
RT: 19.630 min Scan# 2815
Delta R.T. 0.003 min
Lab File: BG058515.D
Acq: 28 Jul 2023 12:46

Tgt Ion:202 Resp: 1103481

Ion	Ratio	Lower	Upper
202	100		
200	22.4	18.2	27.2
203	19.1	15.1	22.7



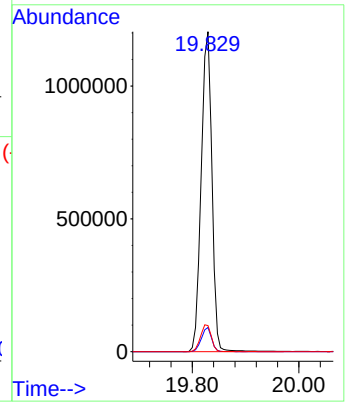


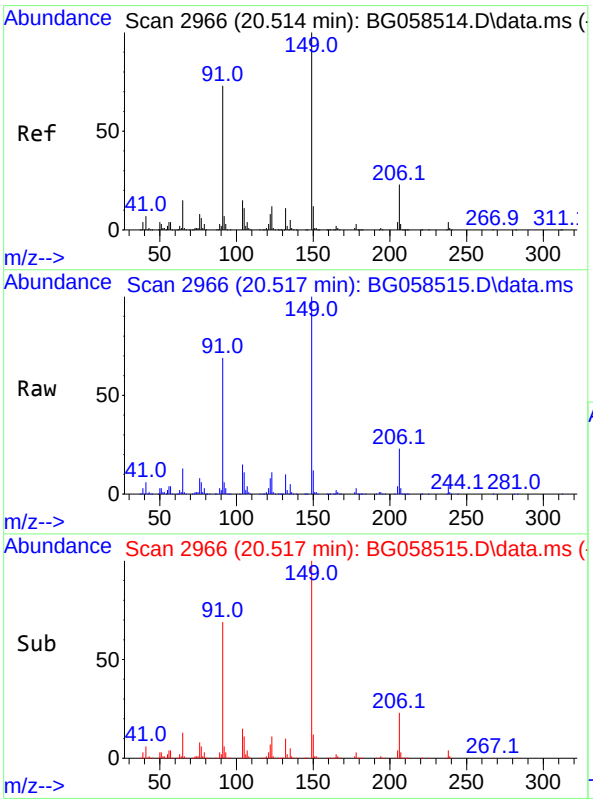
#79
Terphenyl-d14
Concen: 92.569 ng
RT: 19.829 min Scan# 2
Delta R.T. 0.003 min
Lab File: BG058515.D
Acq: 28 Jul 2023 12:46

Instrument :
BNA_G
ClientSampleId :
SSTDICC050

Tgt Ion:244 Resp: 1688146

Ion	Ratio	Lower	Upper
244	100		
212	7.6	5.9	8.9
122	8.2	6.8	10.2

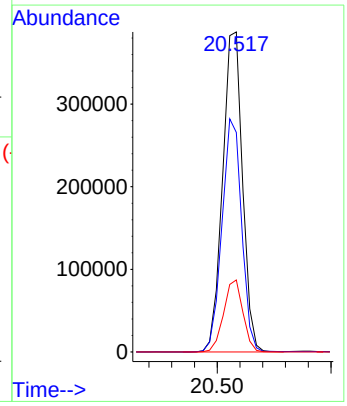


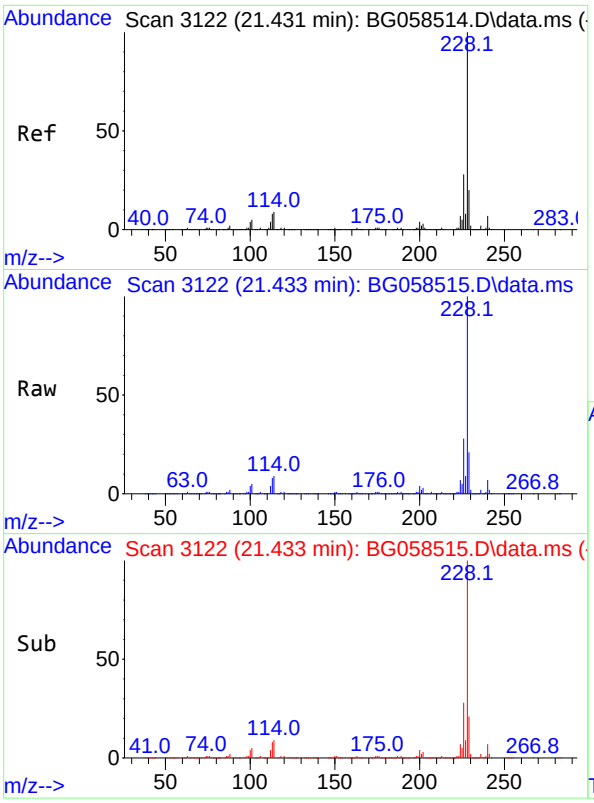


#80
Butylbenzylphthalate
Concen: 49.188 ng
RT: 20.517 min Scan# 2966
Delta R.T. 0.003 min
Lab File: BG058515.D
Acq: 28 Jul 2023 12:46

Tgt Ion:149 Resp: 471557

Ion	Ratio	Lower	Upper
149	100		
91	68.6	58.4	87.6
206	22.5	18.3	27.5



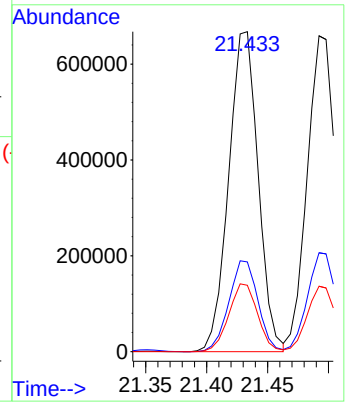


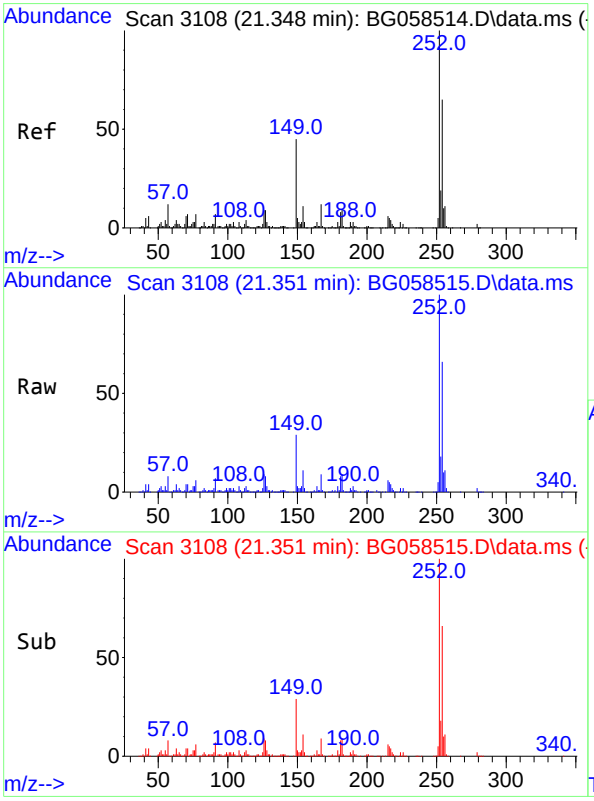
#81
Benzo(a)anthracene
Concen: 47.621 ng
RT: 21.433 min Scan# 3
Delta R.T. 0.003 min
Lab File: BG058515.D
Acq: 28 Jul 2023 12:46

Instrument :
BNA_G
ClientSampleId :
SSTDICC050

Tgt Ion:228 Resp: 1123919

Ion	Ratio	Lower	Upper
228	100		
226	28.0	22.6	33.8
229	20.8	16.3	24.5

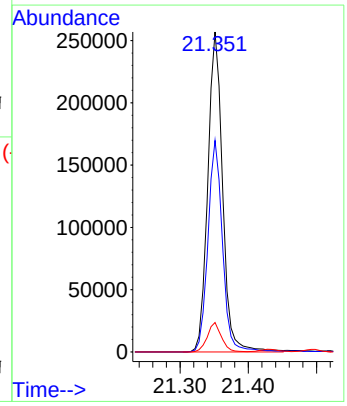


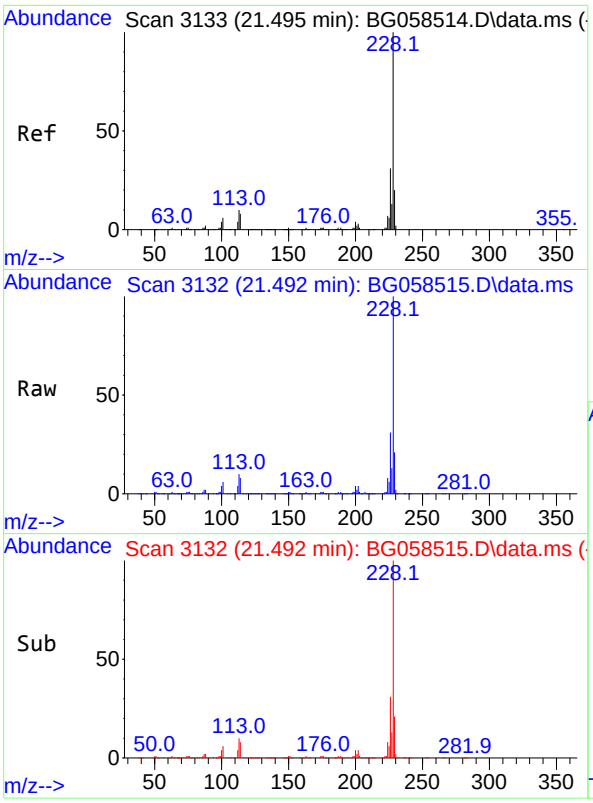


#82
3,3'-Dichlorobenzidine
Concen: 48.676 ng
RT: 21.351 min Scan# 3108
Delta R.T. 0.003 min
Lab File: BG058515.D
Acq: 28 Jul 2023 12:46

Tgt Ion:252 Resp: 388422

Ion	Ratio	Lower	Upper
252	100		
254	66.1	52.2	78.4
126	9.2	7.2	10.8



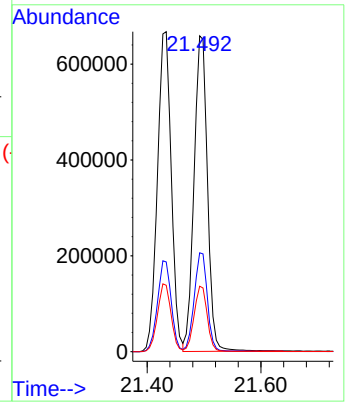


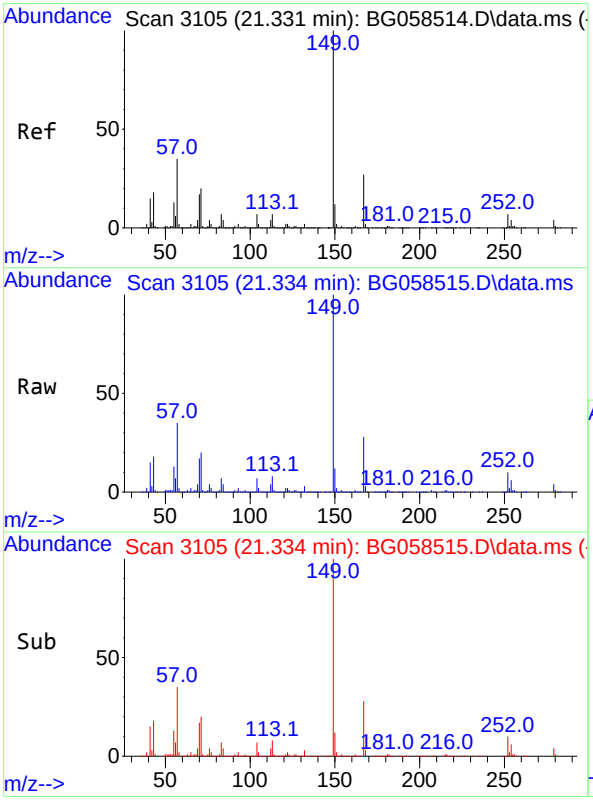
#83
Chrysene
Concen: 47.675 ng
RT: 21.492 min Scan# 3
Delta R.T. -0.003 min
Lab File: BG058515.D
Acq: 28 Jul 2023 12:46

Instrument :
BNA_G
ClientSampleId :
SSTDICC050

Tgt Ion:228 Resp: 1078823

Ion	Ratio	Lower	Upper
228	100		
226	31.3	25.0	37.6
229	20.7	16.3	24.5

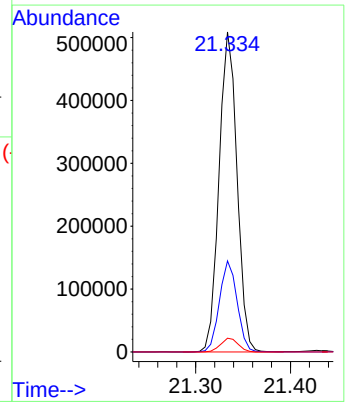


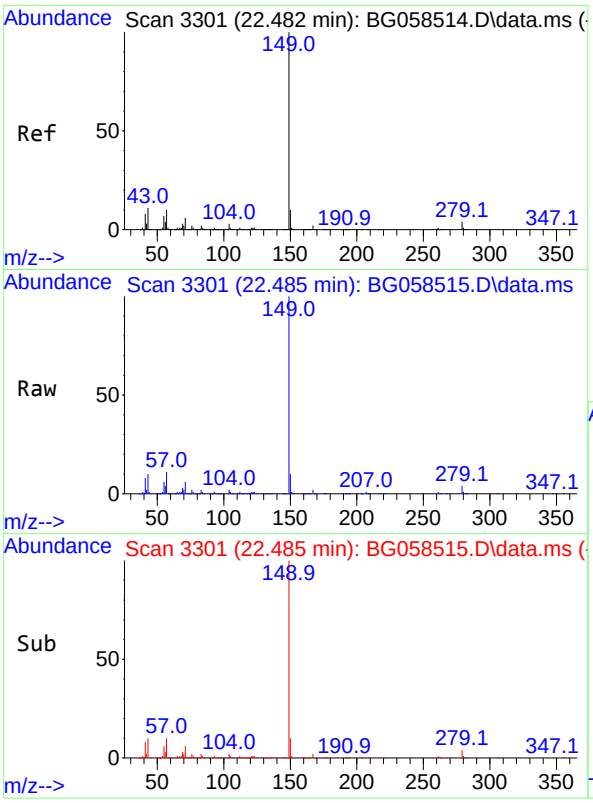


#84
Bis(2-ethylhexyl)phthalate
Concen: 47.918 ng
RT: 21.334 min Scan# 3105
Delta R.T. 0.003 min
Lab File: BG058515.D
Acq: 28 Jul 2023 12:46

Tgt Ion:149 Resp: 671314

Ion	Ratio	Lower	Upper
149	100		
167	28.4	21.8	32.8
279	4.3	2.9	4.3



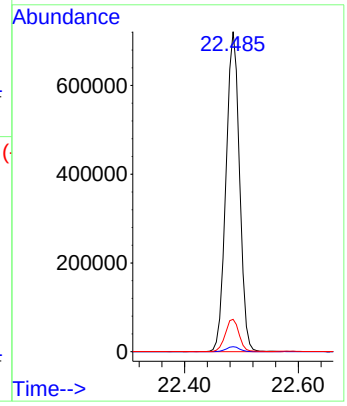


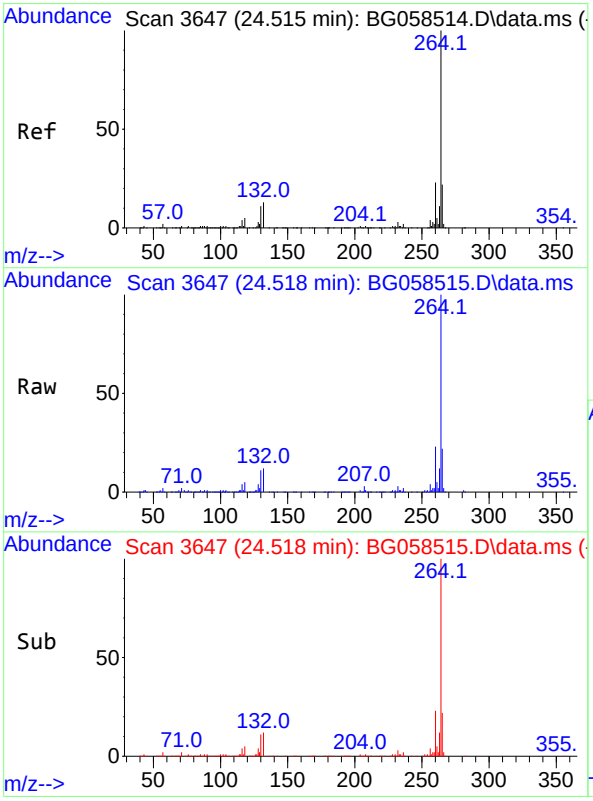
#85
Di-n-octyl phthalate
Concen: 48.489 ng
RT: 22.485 min Scan# 3
Delta R.T. 0.003 min
Lab File: BG058515.D
Acq: 28 Jul 2023 12:46

Instrument :
BNA_G
ClientSampleId :
SSTDICC050

Tgt Ion:149 Resp: 1194315

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	10.3	8.2	12.2

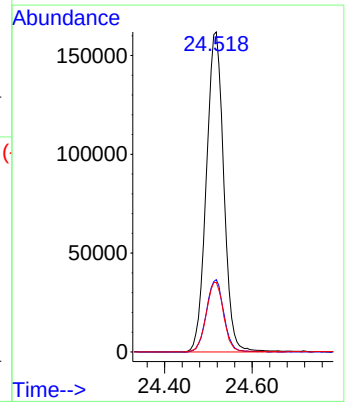


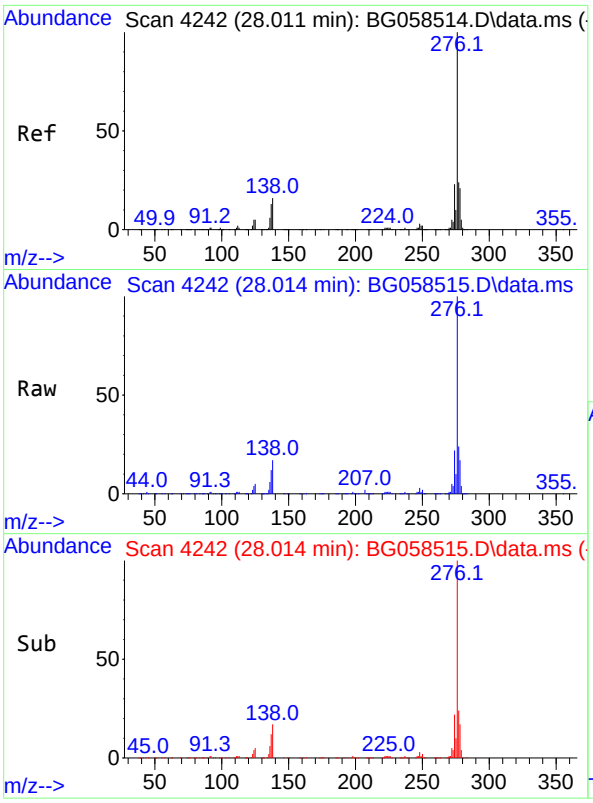


#86
Perylene-d12
Concen: 20.000 ng
RT: 24.518 min Scan# 3647
Delta R.T. 0.003 min
Lab File: BG058515.D
Acq: 28 Jul 2023 12:46

Tgt Ion:264 Resp: 448540

Ion	Ratio	Lower	Upper
264	100		
260	22.6	18.4	27.6
265	21.8	17.9	26.9



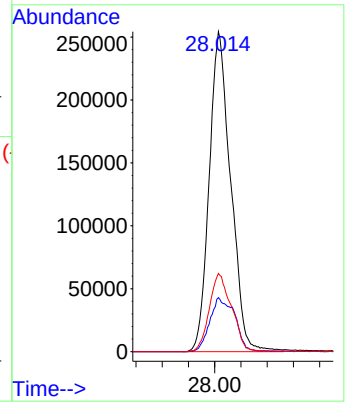


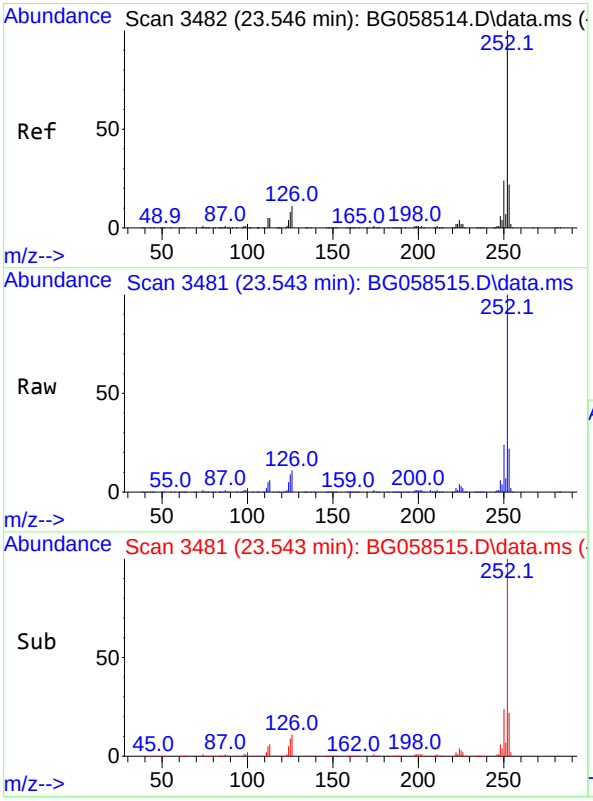
#87
Indeno(1,2,3-cd)pyrene
Concen: 48.394 ng
RT: 28.014 min Scan# 4
Delta R.T. 0.003 min
Lab File: BG058515.D
Acq: 28 Jul 2023 12:46

Instrument :
BNA_G
ClientSampleId :
SSTDICC050

Tgt Ion:276 Resp: 1444076

Ion	Ratio	Lower	Upper
276	100		
138	19.7	16.0	24.0
277	25.4	20.4	30.6

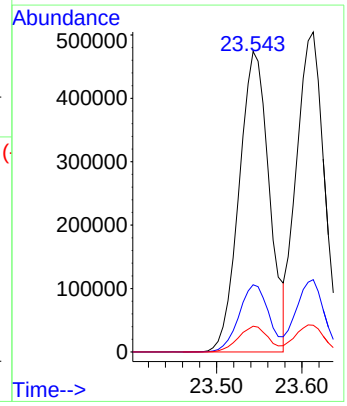


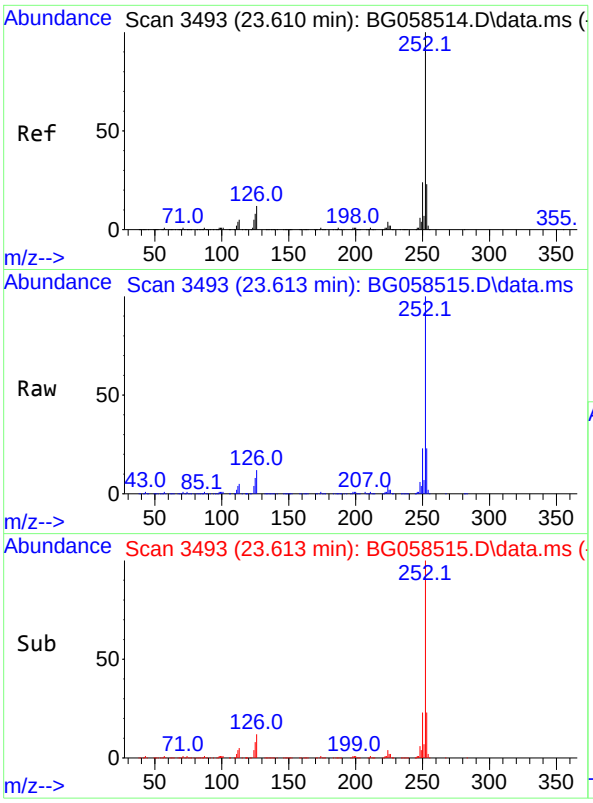


#88
Benzo(b)fluoranthene
Concen: 47.991 ng
RT: 23.543 min Scan# 3481
Delta R.T. -0.003 min
Lab File: BG058515.D
Acq: 28 Jul 2023 12:46

Tgt Ion:252 Resp: 1167516

Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.8	26.8
125	8.6	6.6	9.8



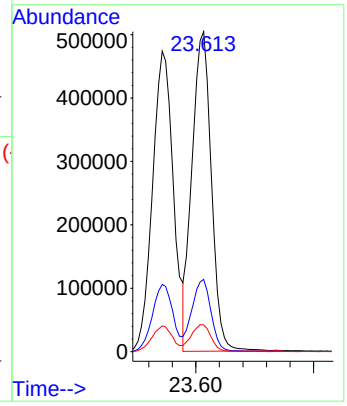


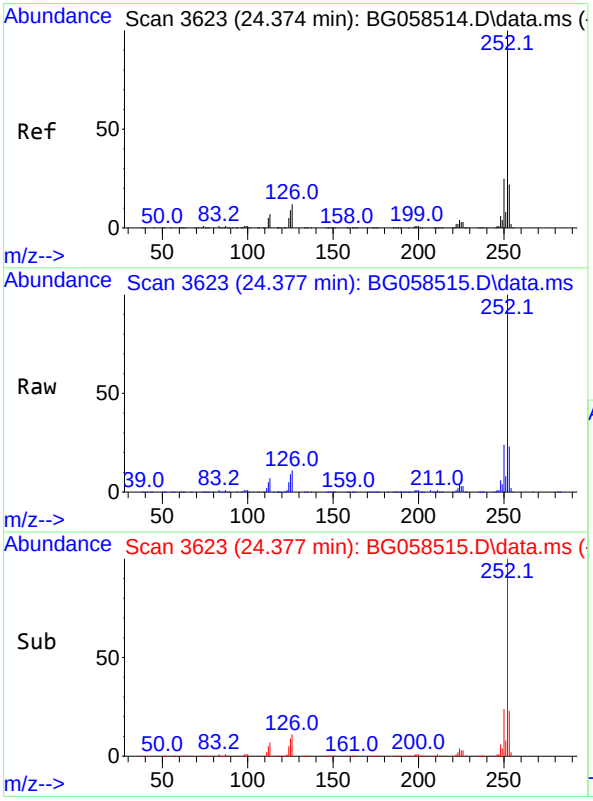
#89
Benzo(k)fluoranthene
Concen: 46.948 ng
RT: 23.613 min Scan# 3
Delta R.T. 0.003 min
Lab File: BG058515.D
Acq: 28 Jul 2023 12:46

Instrument :
BNA_G
ClientSampleId :
SSTDICC050

Tgt Ion:252 Resp: 1147386

Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.9	26.9
125	8.4	6.6	10.0

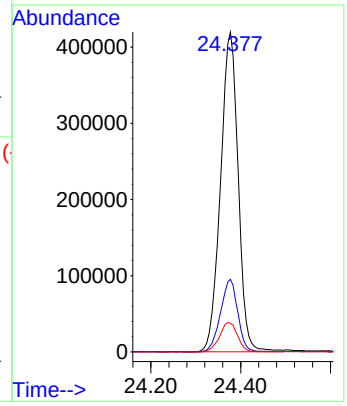


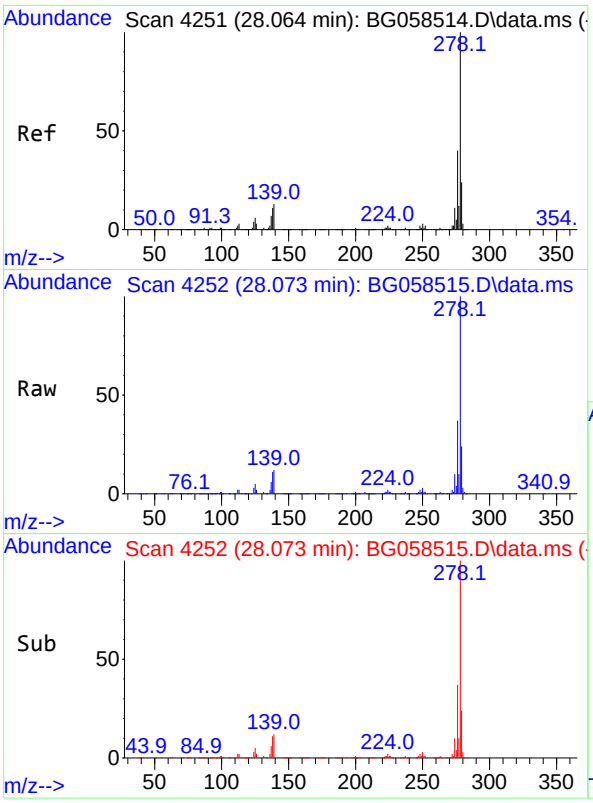


#90
Benzo(a)pyrene
Concen: 47.906 ng
RT: 24.377 min Scan# 3623
Delta R.T. 0.003 min
Lab File: BG058515.D
Acq: 28 Jul 2023 12:46

Tgt Ion:252 Resp: 1144556

Ion	Ratio	Lower	Upper
252	100		
253	22.7	17.5	26.3
125	8.9	7.4	11.2



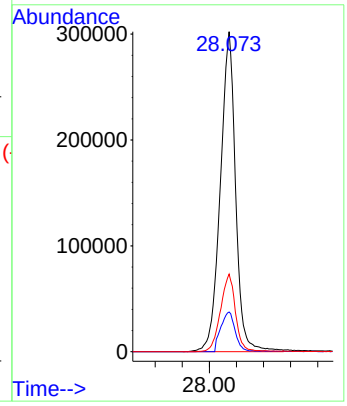


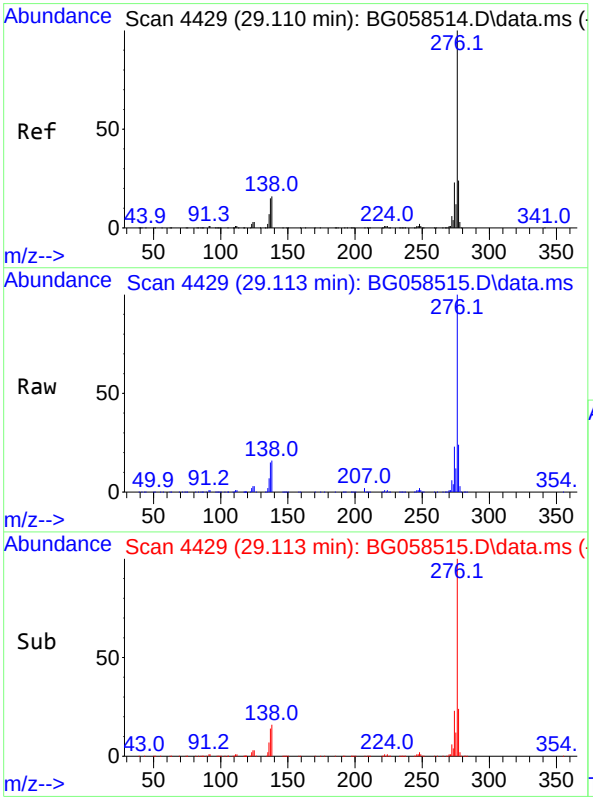
#91
Dibenzo(a,h)anthracene
Concen: 48.108 ng
RT: 28.073 min Scan# 4
Delta R.T. 0.009 min
Lab File: BG058515.D
Acq: 28 Jul 2023 12:46

Instrument :
BNA_G
ClientSampleId :
SSTDICC050

Tgt Ion:278 Resp: 1186991

Ion	Ratio	Lower	Upper
278	100		
139	12.4	10.4	15.6
279	24.3	19.0	28.6

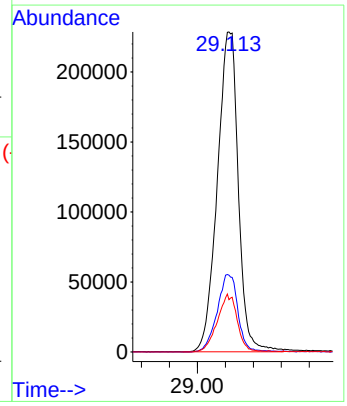




#92
Benzo(g,h,i)perylene
Concen: 48.057 ng
RT: 29.113 min Scan# 4429
Delta R.T. 0.003 min
Lab File: BG058515.D
Acq: 28 Jul 2023 12:46

Tgt Ion:276 Resp: 1188984

Ion	Ratio	Lower	Upper
276	100		
277	24.0	18.9	28.3
138	16.4	13.0	19.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG072823\
Data File : BG058516.D
Acq On : 28 Jul 2023 13:27
Operator : MA/JU
Sample : SSTDICC060
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 28 16:58:34 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 28 16:53:40 2023
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.814	152	62101	20.000	ng		0.00
21) Naphthalene-d8	10.617	136	245645	20.000	ng		0.00
39) Acenaphthene-d10	14.465	164	163230	20.000	ng		0.00
64) Phenanthrene-d10	17.209	188	383574	20.000	ng		0.00
76) Chrysene-d12	21.451	240	324888	20.000	ng		0.00
86) Perylene-d12	24.518	264	422617	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.388	112	465583	114.591	ng		0.00
7) Phenol-d6	6.992	99	655566	115.956	ng		0.00
23) Nitrobenzene-d5	8.983	82	603219	120.635	ng		0.00
42) 2,4,6-Tribromophenol	15.958	330	319190	119.303	ng		0.00
45) 2-Fluorobiphenyl	13.084	172	1253097	115.045	ng		0.00
79) Terphenyl-d14	19.829	244	1951959	112.984	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.272	88	112527	57.155	ng		100
3) Pyridine	3.672	79	314910	58.668	ng		97
4) n-Nitrosodimethylamine	3.590	42	131681	57.900	ng		98
6) Aniline	7.144	93	408067	58.625	ng		99
8) 2-Chlorophenol	7.379	128	232230	58.263	ng		96
9) Benzaldehyde	6.956	77	159142	51.812	ng		96
10) Phenol	7.015	94	322249	58.350	ng		99
11) bis(2-Chloroethyl)ether	7.244	93	255920	58.780	ng		99
12) 1,3-Dichlorobenzene	7.702	146	243513	57.214	ng		99
13) 1,4-Dichlorobenzene	7.849	146	247380	57.886	ng		96
14) 1,2-Dichlorobenzene	8.167	146	232881	56.996	ng		97
15) Benzyl Alcohol	8.061	79	230028	64.158	ng		99
16) 2,2'-oxybis(1-Chloropr...	8.349	45	409577	57.912	ng		99
17) 2-Methylphenol	8.261	107	235010	58.199	ng		98
18) Hexachloroethane	8.895	117	90099	58.004	ng		97
19) n-Nitroso-di-n-propyla...	8.625	70	211344	57.874	ng		98
20) 3+4-Methylphenols	8.596	107	326399	59.757	ng		98
22) Acetophenone	8.643	105	387745	58.951	ng	#	99
24) Nitrobenzene	9.024	77	305793	60.154	ng		97
25) Isophorone	9.547	82	611973	59.233	ng		99
26) 2-Nitrophenol	9.735	139	139571	63.073	ng		99
27) 2,4-Dimethylphenol	9.794	122	219243	59.731	ng		99
28) bis(2-Chloroethoxy)met...	10.029	93	340570	60.572	ng		98
29) 2,4-Dichlorophenol	10.270	162	232478	61.000	ng		100
30) 1,2,4-Trichlorobenzene	10.482	180	259724	59.094	ng		99
31) Naphthalene	10.670	128	755660	58.366	ng		99
32) Benzoic acid	9.982	122	177803	62.009	ng		95
33) 4-Chloroaniline	10.781	127	341396	62.411	ng		99
34) Hexachlorobutadiene	10.946	225	168950	59.690	ng		98
35) Caprolactam	11.586	113	82937m	58.932	ng		
36) 4-Chloro-3-methylphenol	11.915	107	282831	59.993	ng		98
37) 2-Methylnaphthalene	12.280	142	540350	58.346	ng		98
38) 1-Methylnaphthalene	12.503	142	510462	57.984	ng		98
40) 1,2,4,5-Tetrachloroben...	12.650	216	301065	60.077	ng		100
41) Hexachlorocyclopentadiene	12.626	237	135895	60.225	ng		96
43) 2,4,6-Trichlorophenol	12.896	196	212256	61.580	ng		97

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG072823\
Data File : BG058516.D
Acq On : 28 Jul 2023 13:27
Operator : MA/JU
Sample : SSTDICC060
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

Quant Time: Jul 28 16:58:34 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 28 16:53:40 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	12.973	196	247408	60.940	ng		98
46) 1,1'-Biphenyl	13.296	154	663497	59.189	ng		99
47) 2-Chloronaphthalene	13.337	162	521369	59.651	ng		99
48) 2-Nitroaniline	13.549	65	210278	63.031	ng		97
49) Acenaphthylene	14.189	152	857707	58.613	ng		99
50) Dimethylphthalate	13.925	163	718910	58.644	ng		100
51) 2,6-Dinitrotoluene	14.048	165	162479	60.405	ng		99
52) Acenaphthene	14.530	154	498407	58.945	ng		99
53) 3-Nitroaniline	14.377	138	171379	63.682	ng		99
54) 2,4-Dinitrophenol	14.589	184	91990	62.476	ng		100
55) Dibenzofuran	14.865	168	837621	57.651	ng		100
56) 4-Nitrophenol	14.694	139	123729	62.772	ng		98
57) 2,4-Dinitrotoluene	14.835	165	228342	61.232	ng		95
58) Fluorene	15.511	166	652730	56.552	ng		99
59) 2,3,4,6-Tetrachlorophenol	15.094	232	208520	60.190	ng		98
60) Diethylphthalate	15.282	149	719381	57.602	ng		100
61) 4-Chlorophenyl-phenyle...	15.505	204	373211	57.998	ng		98
62) 4-Nitroaniline	15.546	138	164310	64.966	ng		96
63) Azobenzene	15.799	77	712776	57.944	ng		99
65) 4,6-Dinitro-2-methylph...	15.605	198	141886	67.086	ng		96
66) n-Nitrosodiphenylamine	15.723	169	584069	58.504	ng		99
67) 4-Bromophenyl-phenylether	16.398	248	262010	60.225	ng		97
68) Hexachlorobenzene	16.516	284	274751	59.598	ng		100
69) Atrazine	16.668	200	182651	54.197	ng		99
70) Pentachlorophenol	16.862	266	185459	66.760	ng		98
71) Phenanthrene	17.250	178	1046737	57.542	ng		99
72) Anthracene	17.344	178	1078160	57.763	ng		98
73) Carbazole	17.614	167	976627	59.335	ng		99
74) Di-n-butylphthalate	18.167	149	1208036	58.596	ng		99
75) Fluoranthene	19.265	202	1264613	57.874	ng		99
77) Benzidine	19.453	184	290447	58.955	ng		99
78) Pyrene	19.630	202	1286752	58.197	ng		99
80) Butylbenzylphthalate	20.517	149	546736	60.199	ng		98
81) Benzo(a)anthracene	21.433	228	1327542	59.375	ng		99
82) 3,3'-Dichlorobenzidine	21.351	252	460119	60.866	ng		97
83) Chrysene	21.498	228	1258763	58.719	ng		99
84) Bis(2-ethylhexyl)phtha...	21.334	149	788612	59.420	ng		98
85) Di-n-octyl phthalate	22.485	149	1406083	60.260	ng		99
87) Indeno(1,2,3-cd)pyrene	28.020	276	1705786	60.671	ng	#	53
88) Benzo(b)fluoranthene	23.549	252	1353132	59.033	ng		99
89) Benzo(k)fluoranthene	23.613	252	1363271	59.203	ng		99
90) Benzo(a)pyrene	24.377	252	1350429	59.991	ng		98
91) Dibenzo(a,h)anthracene	28.079	278	1412442	60.757	ng		99
92) Benzo(g,h,i)perylene	29.124	276	1410975	60.527	ng		97

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

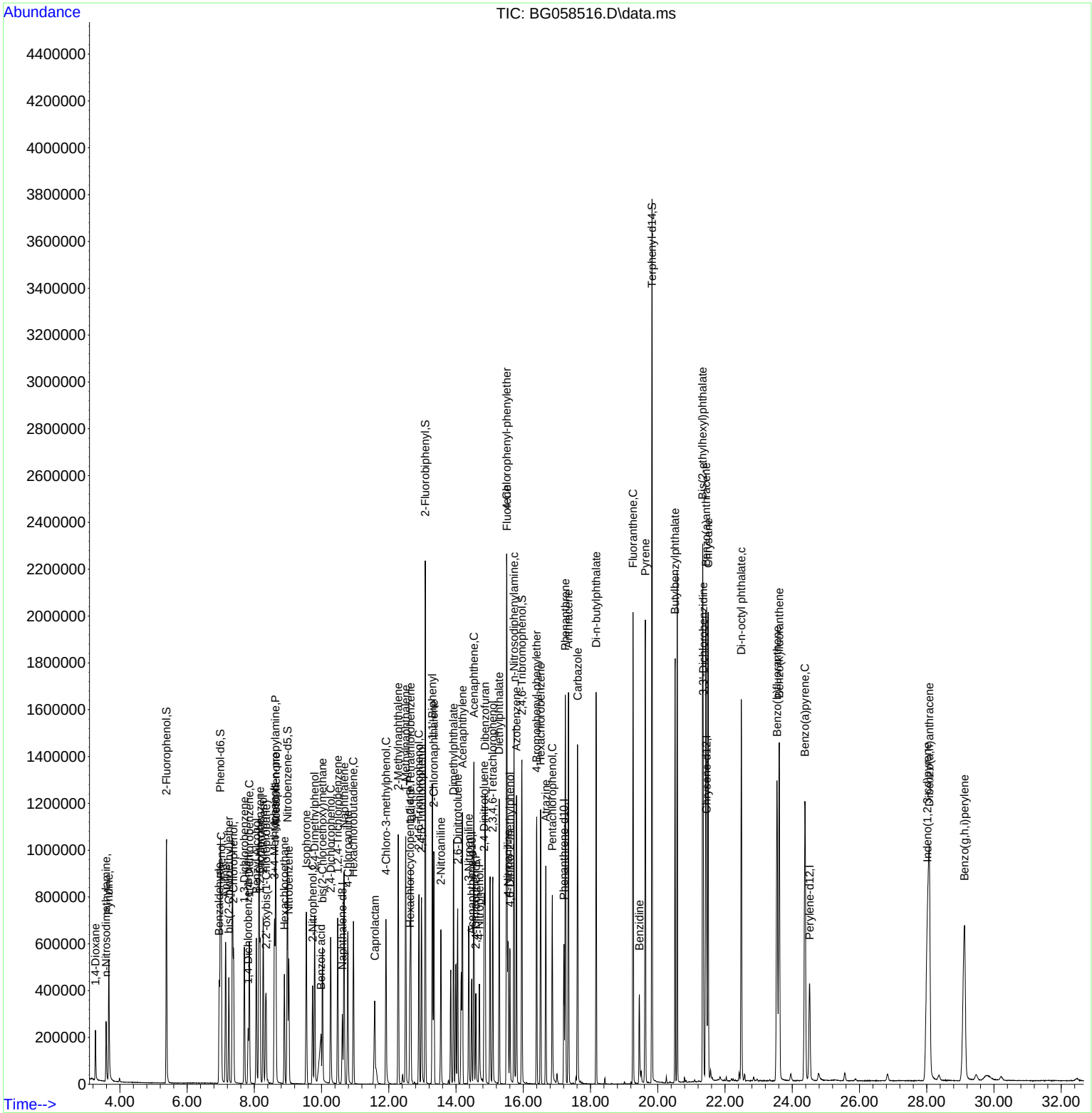
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG072823\
Data File : BG058516.D
Acq On : 28 Jul 2023 13:27
Operator : MA/JU
Sample : SSTDICC060
Misc :
ALS Vial : 8 Sample Multiplier: 1

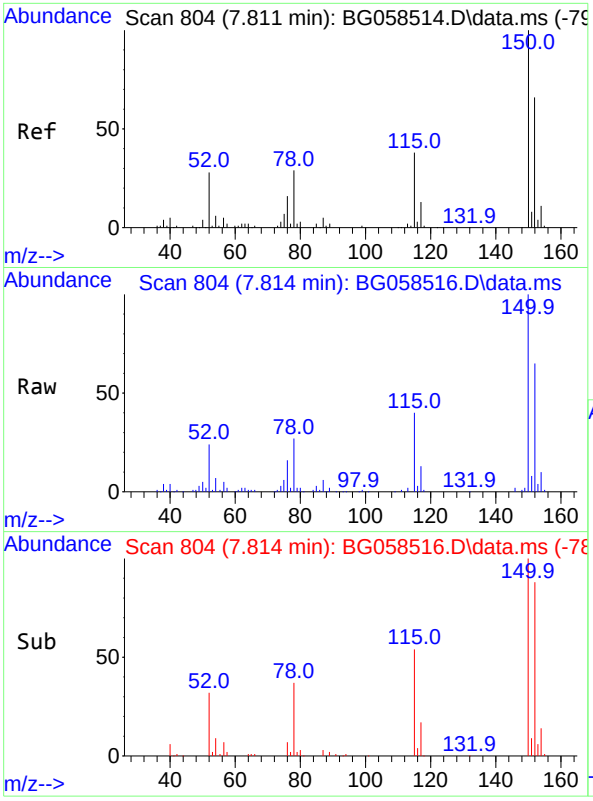
Quant Time: Jul 28 16:58:34 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 28 16:53:40 2023
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

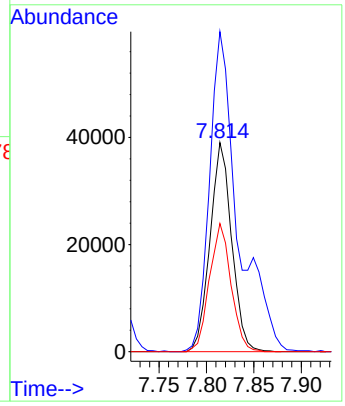




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.814 min Scan# 8
Delta R.T. 0.003 min
Lab File: BG058516.D
Acq: 28 Jul 2023 13:27

Tgt Ion:152 Resp: 6210

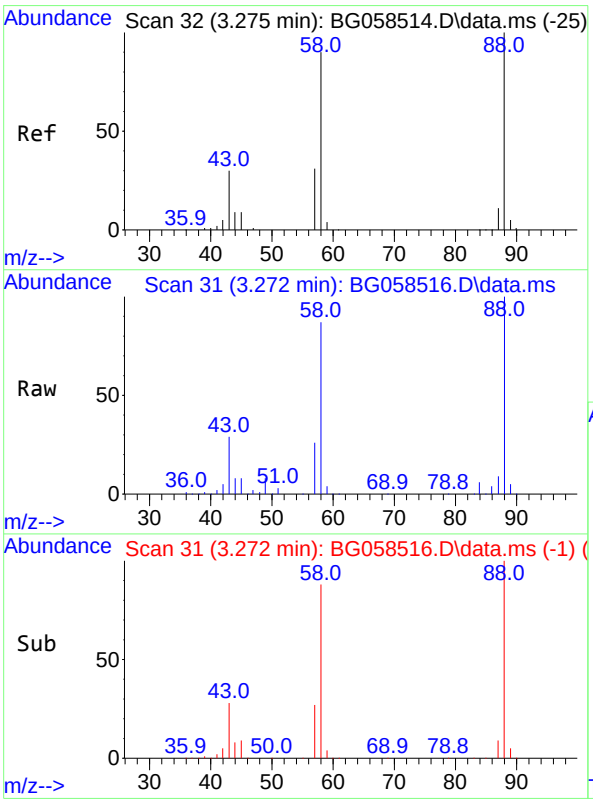
Ion	Ratio	Lower	Upper
152	100		
150	153.1	120.5	180.7
115	61.3	45.9	68.9



Instrument :
BNA_G
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

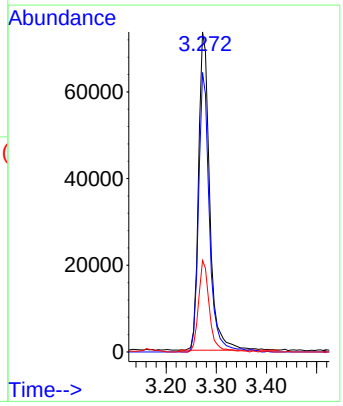
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

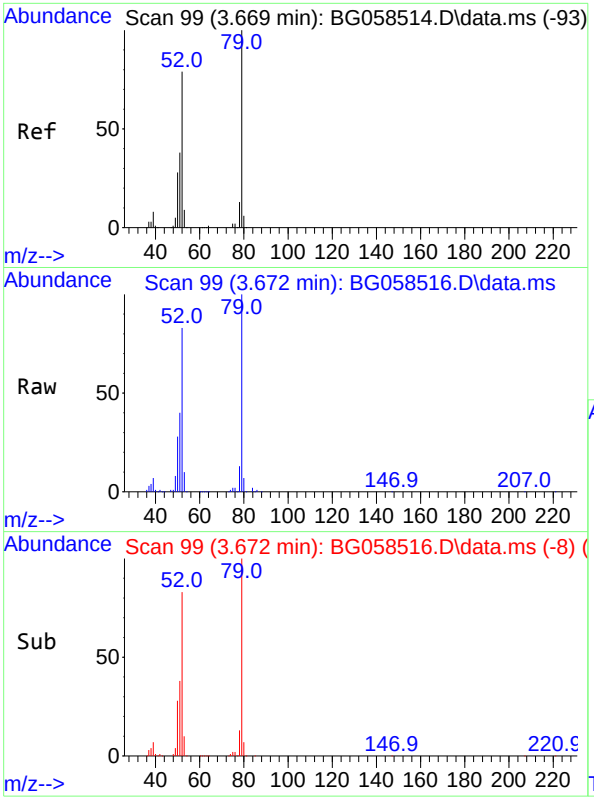


#2
1,4-Dioxane
Concen: 57.155 ng
RT: 3.272 min Scan# 31
Delta R.T. -0.003 min
Lab File: BG058516.D
Acq: 28 Jul 2023 13:27

Tgt Ion: 88 Resp: 112527

Ion	Ratio	Lower	Upper
88	100		
58	86.0	68.9	103.3
43	28.3	22.9	34.3

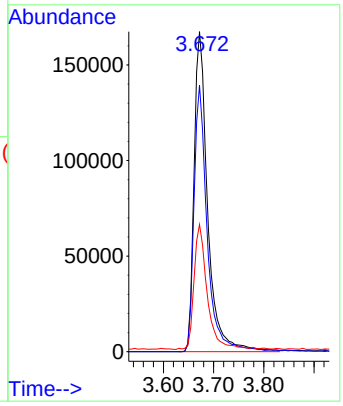




#3
Pyridine
Concen: 58.668 ng
RT: 3.672 min Scan# 9
Delta R.T. 0.003 min
Lab File: BG058516.D
Acq: 28 Jul 2023 13:27

Tgt Ion: 79 Resp: 31491

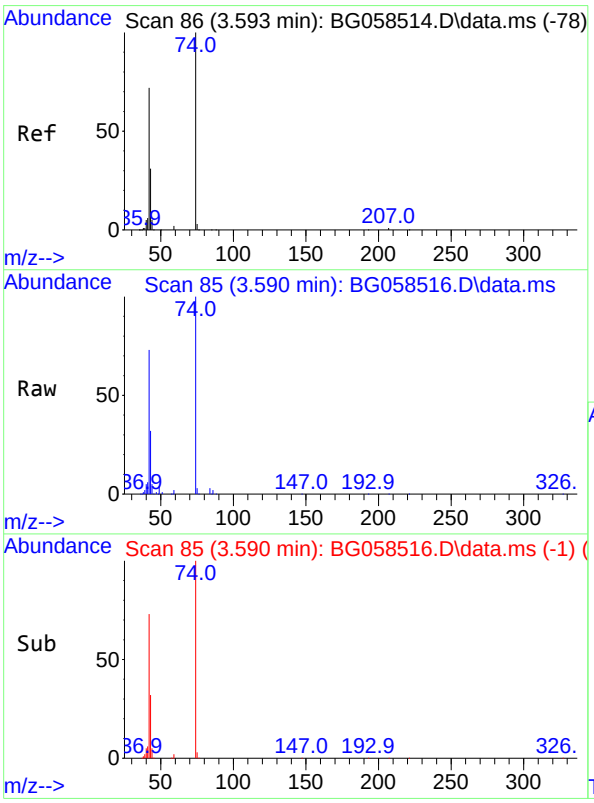
Ion	Ratio	Lower	Upper
79	100		
52	83.3	63.2	94.8
51	39.8	31.9	47.9



Instrument :
BNA_G
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

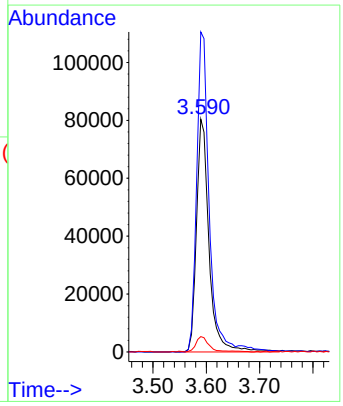
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

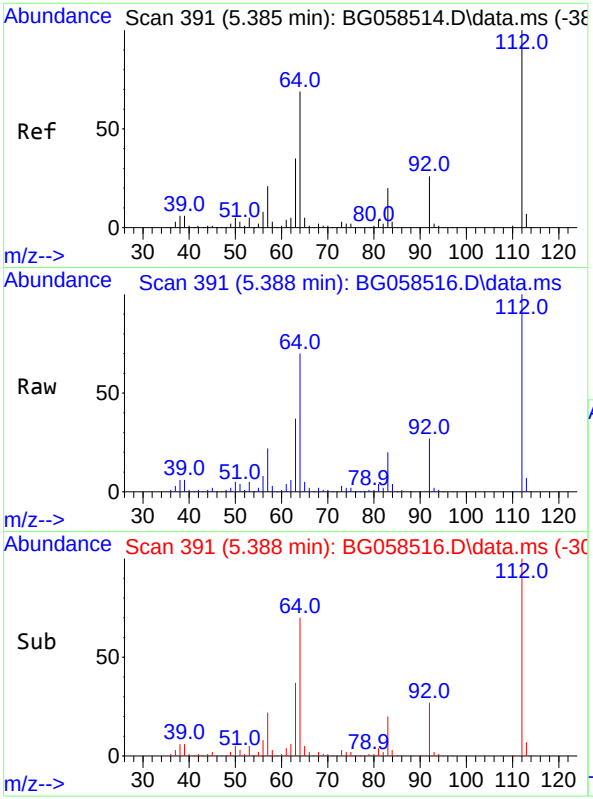


#4
n-Nitrosodimethylamine
Concen: 57.900 ng
RT: 3.590 min Scan# 85
Delta R.T. -0.003 min
Lab File: BG058516.D
Acq: 28 Jul 2023 13:27

Tgt Ion: 42 Resp: 131681

Ion	Ratio	Lower	Upper
42	100		
74	137.5	111.5	167.3
44	6.6	5.4	8.2

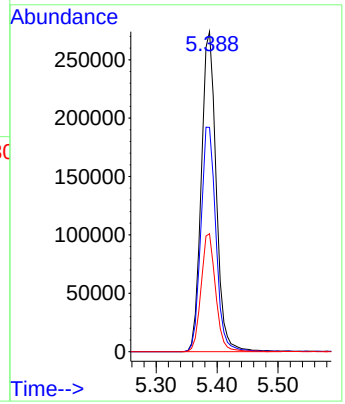




#5
2-Fluorophenol
Concen: 114.591 ng
RT: 5.388 min Scan# 3
Delta R.T. 0.003 min
Lab File: BG058516.D
Acq: 28 Jul 2023 13:27

Tgt Ion:112 Resp: 46558

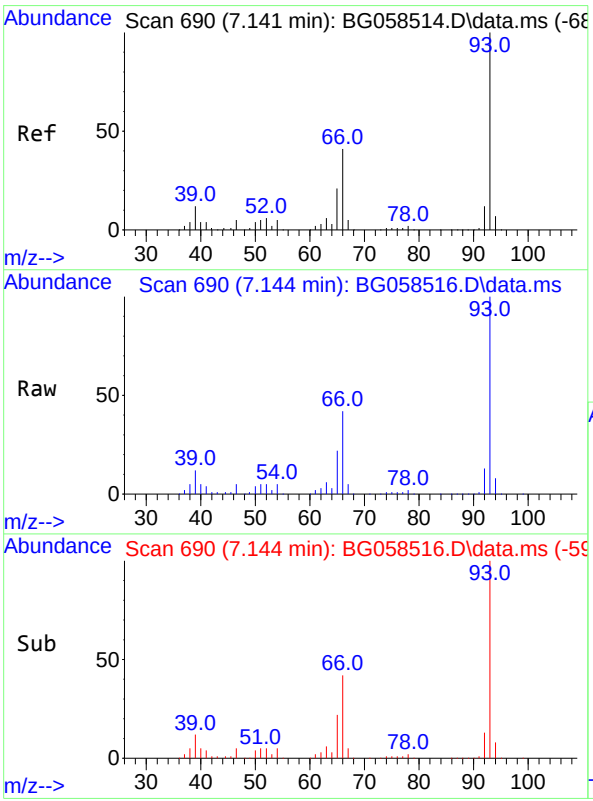
Ion	Ratio	Lower	Upper
112	100		
64	70.1	55.3	82.9
63	36.8	28.3	42.5



Instrument :
BNA_G
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

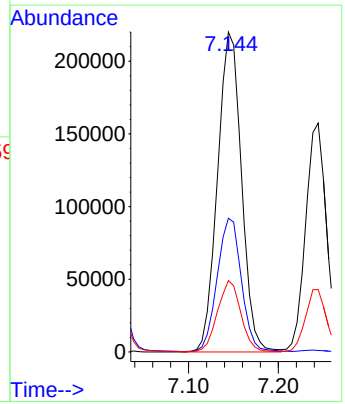
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

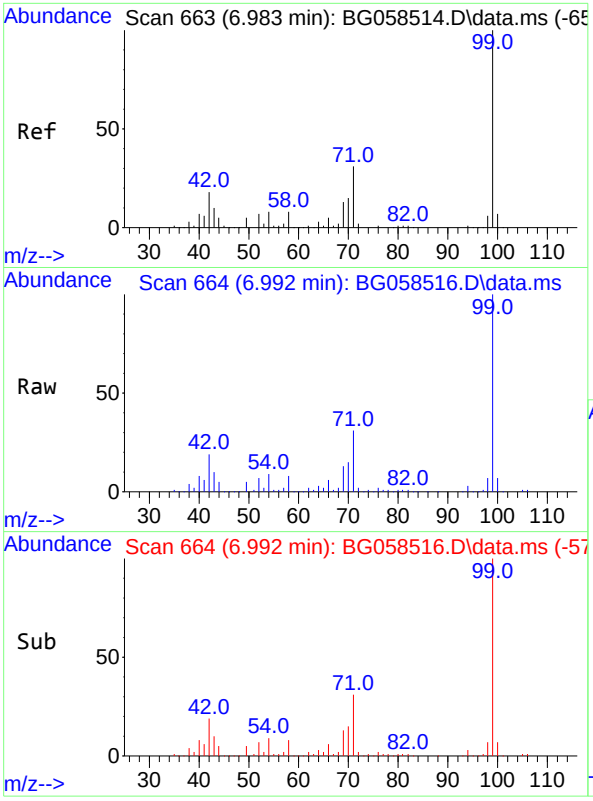


#6
Aniline
Concen: 58.625 ng
RT: 7.144 min Scan# 690
Delta R.T. 0.003 min
Lab File: BG058516.D
Acq: 28 Jul 2023 13:27

Tgt Ion: 93 Resp: 408067

Ion	Ratio	Lower	Upper
93	100		
66	41.8	33.1	49.7
65	22.3	17.0	25.4

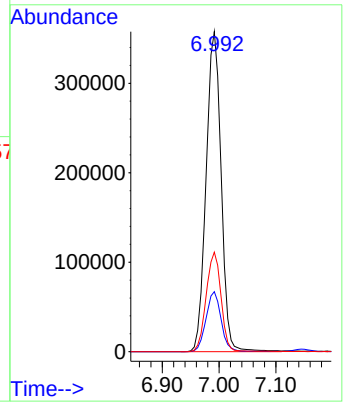




#7
Phenol-d6
Concen: 115.956 ng
RT: 6.992 min Scan# 6
Delta R.T. 0.009 min
Lab File: BG058516.D
Acq: 28 Jul 2023 13:27

Tgt Ion: 99 Resp: 65556

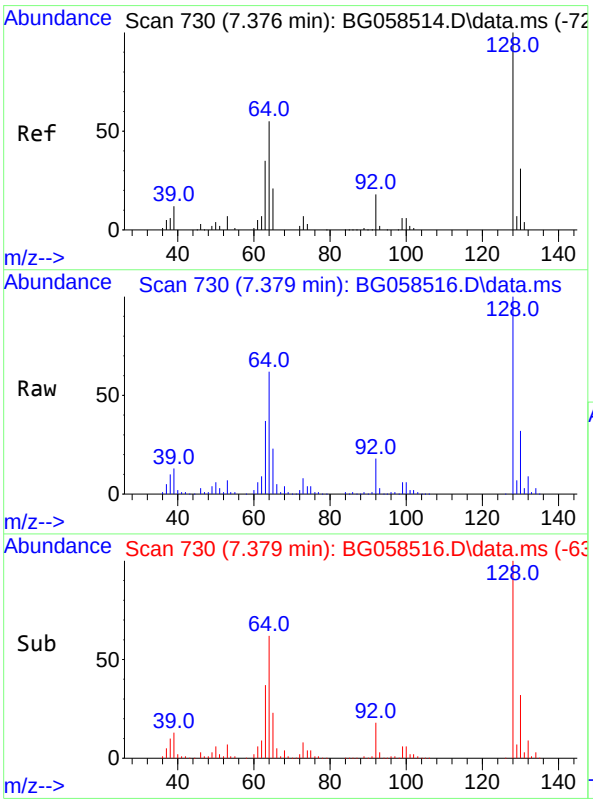
Ion	Ratio	Lower	Upper
99	100		
42	18.7	14.6	21.8
71	31.1	25.0	37.4



Instrument :
BNA_G
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

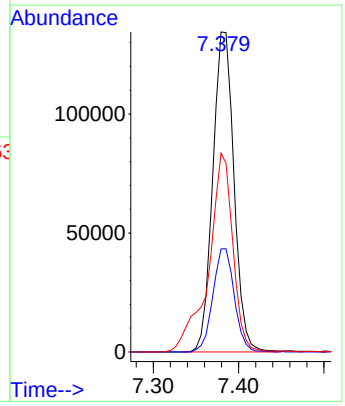
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

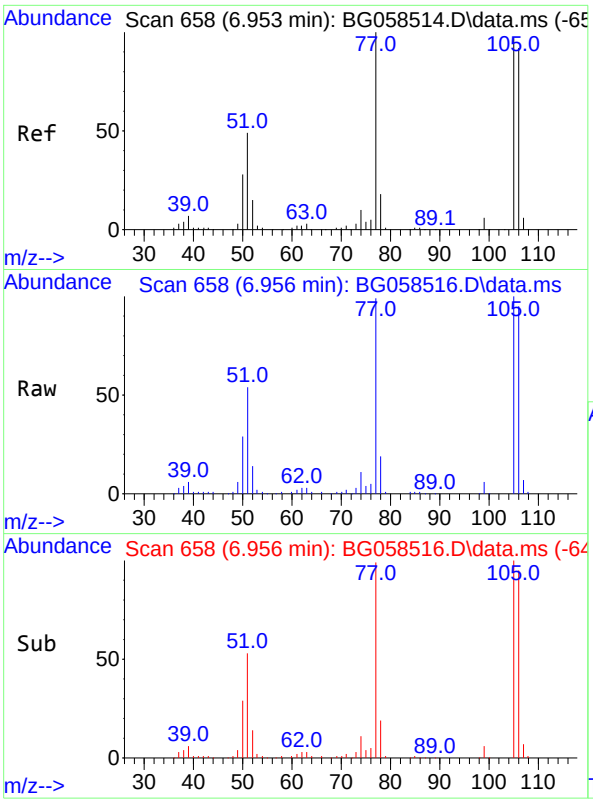


#8
2-Chlorophenol
Concen: 58.263 ng
RT: 7.379 min Scan# 730
Delta R.T. 0.003 min
Lab File: BG058516.D
Acq: 28 Jul 2023 13:27

Tgt Ion:128 Resp: 232230

Ion	Ratio	Lower	Upper
128	100		
130	32.2	10.9	50.9
64	62.1	39.0	79.0

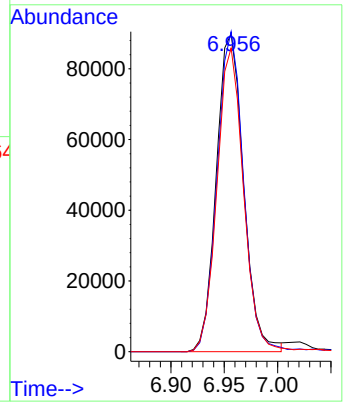




#9
Benzaldehyde
Concen: 51.812 ng
RT: 6.956 min Scan# 6
Delta R.T. 0.003 min
Lab File: BG058516.D
Acq: 28 Jul 2023 13:27

Tgt Ion: 77 Resp: 15914

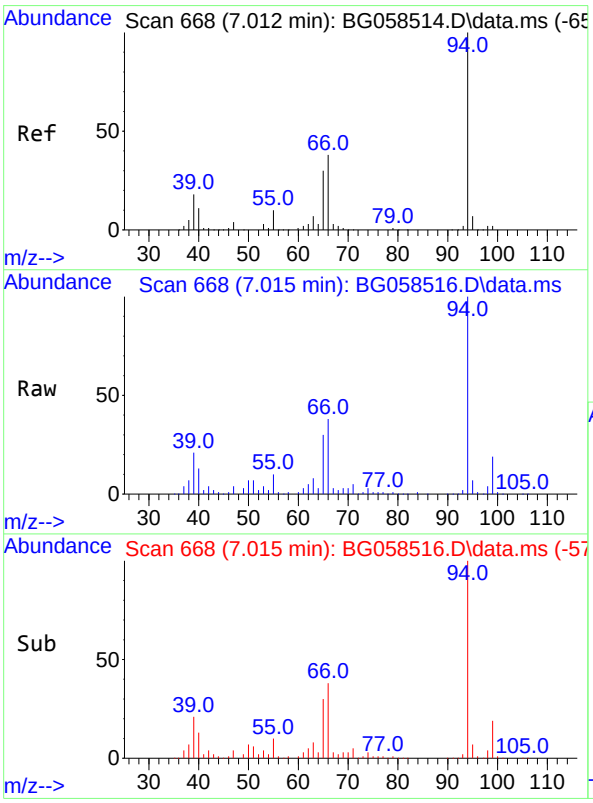
Ion	Ratio	Lower	Upper
77	100		
105	100.7	77.1	117.1
106	95.5	71.6	111.6



Instrument :
BNA_G
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

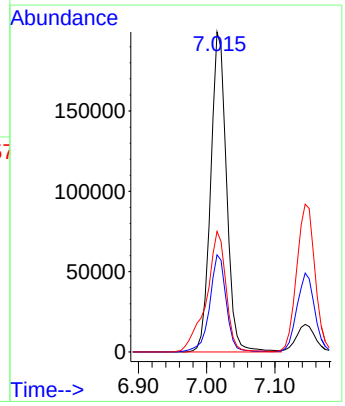
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

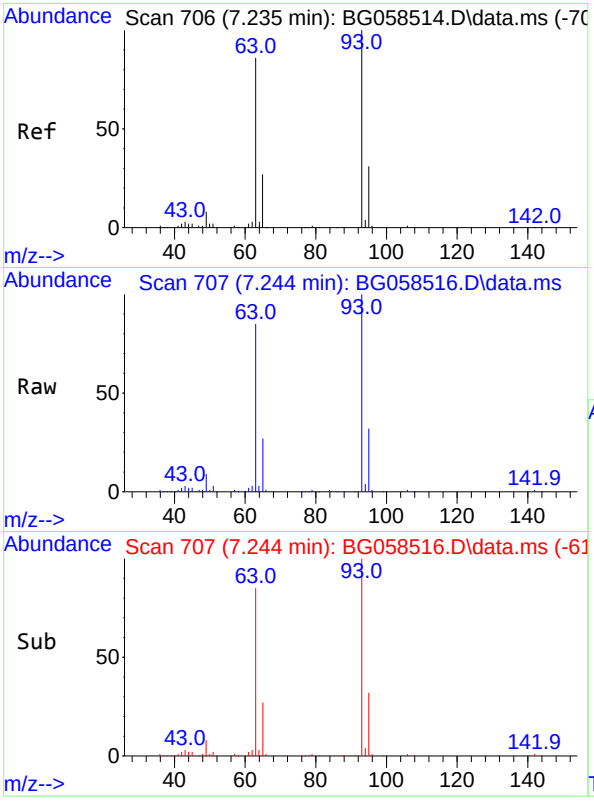


#10
Phenol
Concen: 58.350 ng
RT: 7.015 min Scan# 668
Delta R.T. 0.003 min
Lab File: BG058516.D
Acq: 28 Jul 2023 13:27

Tgt Ion: 94 Resp: 322249

Ion	Ratio	Lower	Upper
94	100		
65	30.4	10.4	50.4
66	37.6	18.7	58.7

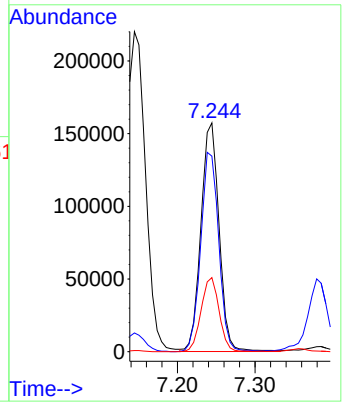




#11
bis(2-Chloroethyl)ether
Concen: 58.780 ng
RT: 7.244 min Scan# 7(
Delta R.T. 0.009 min
Lab File: BG058516.D
Acq: 28 Jul 2023 13:27

Tgt Ion: 93 Resp: 25592(

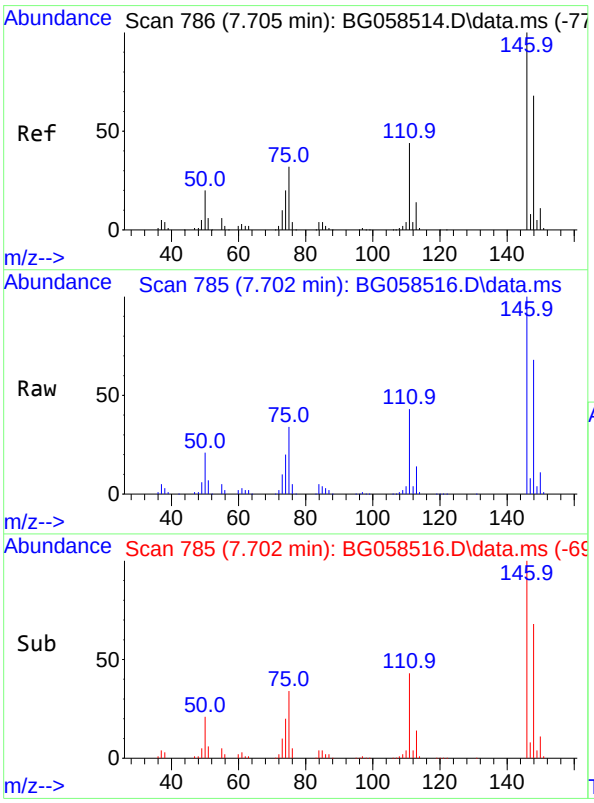
Ion	Ratio	Lower	Upper
93	100		
63	85.5	65.5	105.5
95	32.4	11.2	51.2



Instrument :
BNA_G
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

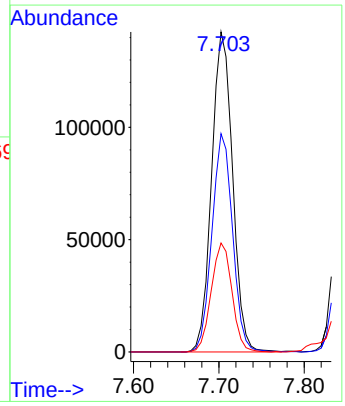
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

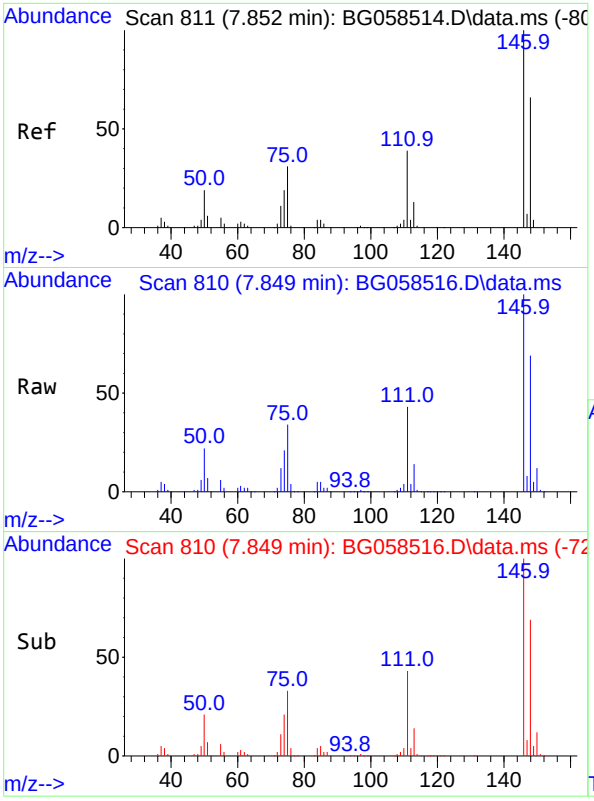


#12
1,3-Dichlorobenzene
Concen: 57.214 ng
RT: 7.702 min Scan# 785
Delta R.T. -0.003 min
Lab File: BG058516.D
Acq: 28 Jul 2023 13:27

Tgt Ion:146 Resp: 243513

Ion	Ratio	Lower	Upper
146	100		
148	68.2	54.7	82.1
75	34.0	25.8	38.8

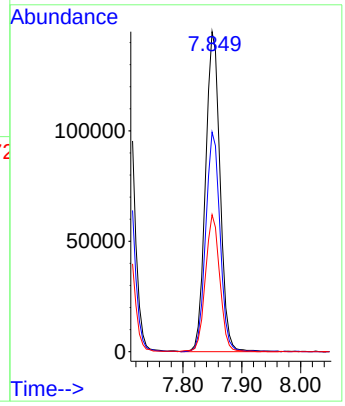




#13
1,4-Dichlorobenzene
Concen: 57.886 ng
RT: 7.849 min Scan# 81
Delta R.T. -0.003 min
Lab File: BG058516.D
Acq: 28 Jul 2023 13:27

Tgt Ion:146 Resp: 24738

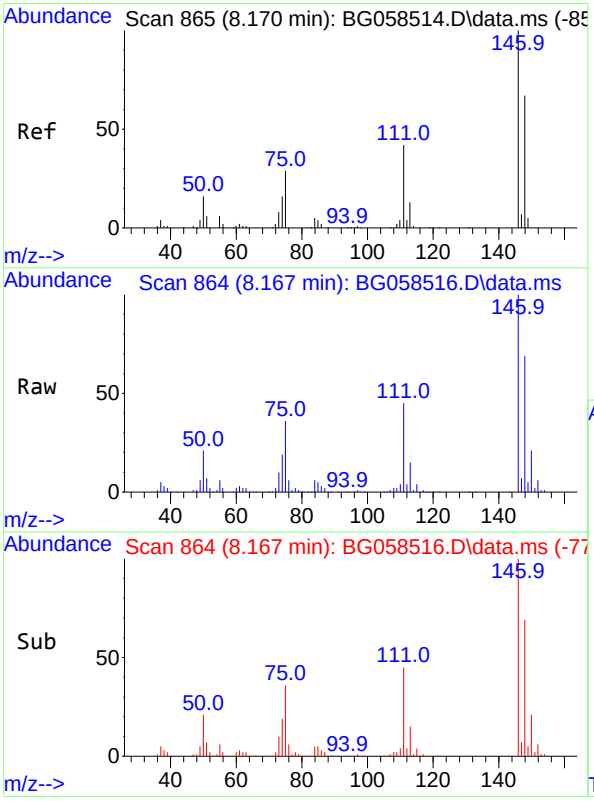
Ion	Ratio	Lower	Upper
146	100		
148	68.6	52.8	79.2
111	42.8	31.7	47.5



Instrument :
BNA_G
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

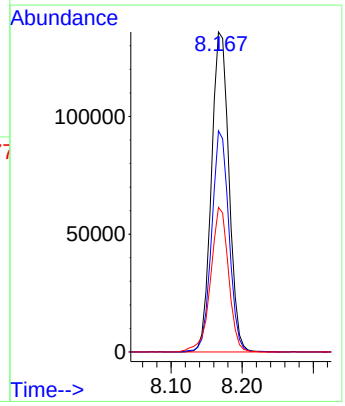
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

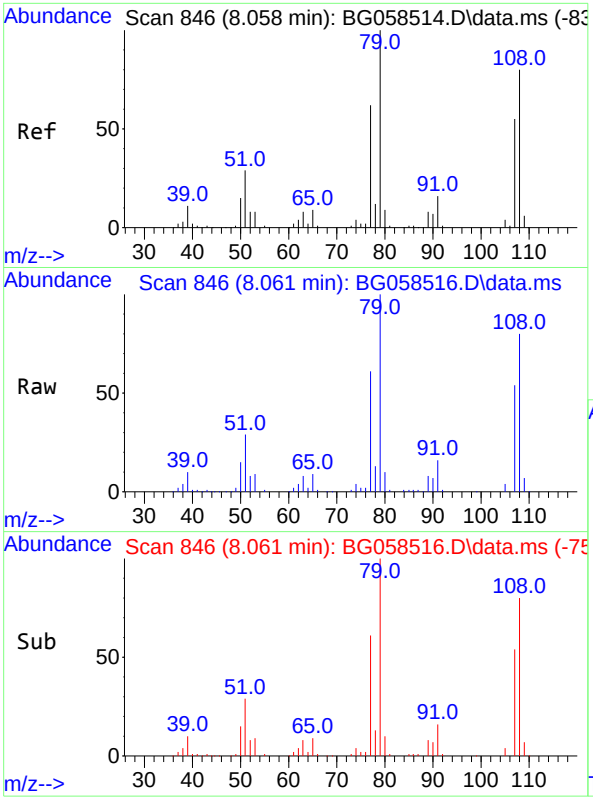


#14
1,2-Dichlorobenzene
Concen: 56.996 ng
RT: 8.167 min Scan# 864
Delta R.T. -0.003 min
Lab File: BG058516.D
Acq: 28 Jul 2023 13:27

Tgt Ion:146 Resp: 232881

Ion	Ratio	Lower	Upper
146	100		
148	69.1	53.4	80.2
111	45.2	34.2	51.2





#15
Benzyl Alcohol
Concen: 64.158 ng
RT: 8.061 min Scan# 84
Delta R.T. 0.003 min
Lab File: BG058516.D
Acq: 28 Jul 2023 13:27

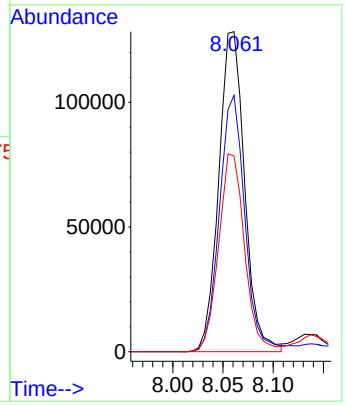
Tgt Ion: 79 Resp: 23002

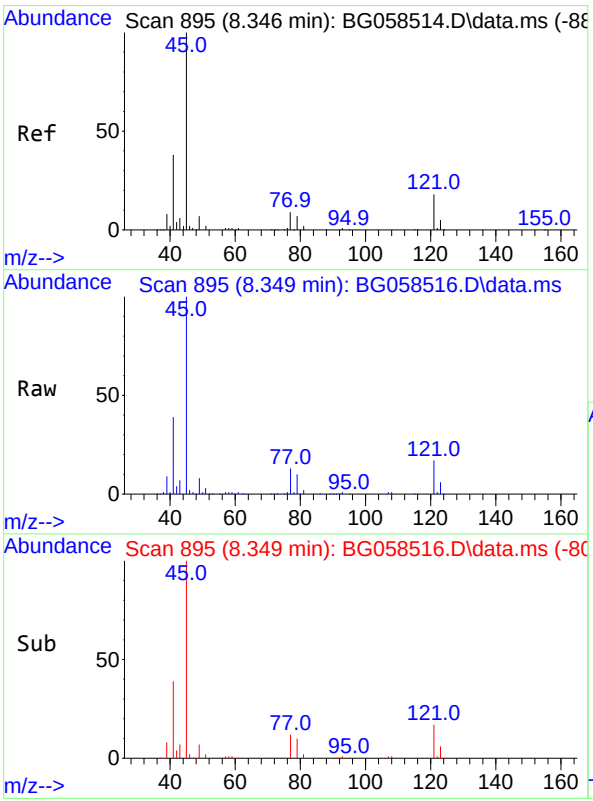
Ion	Ratio	Lower	Upper
79	100		
108	80.1	63.8	95.6
77	61.2	49.8	74.6

Instrument :
BNA_G
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

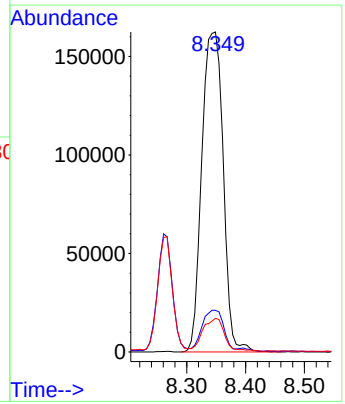


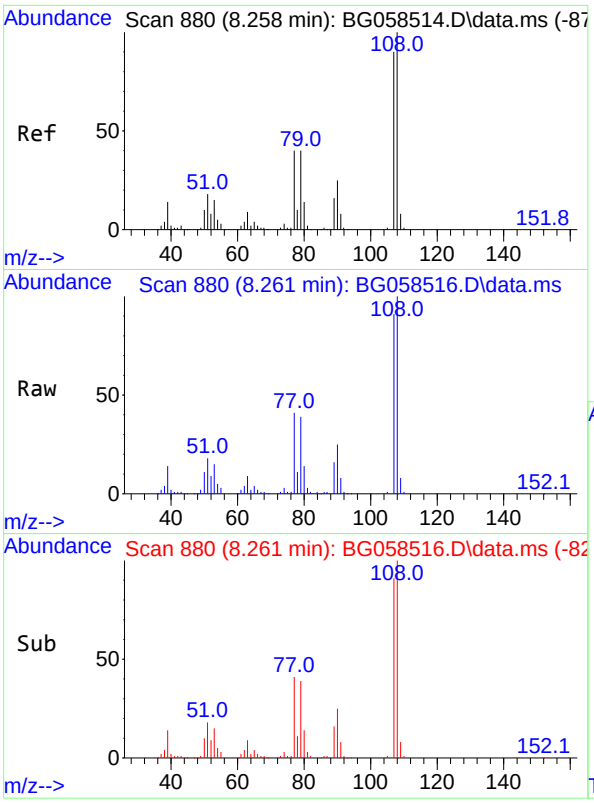


#16
2,2'-oxybis(1-Chloropropane)
Concen: 57.912 ng
RT: 8.349 min Scan# 895
Delta R.T. 0.003 min
Lab File: BG058516.D
Acq: 28 Jul 2023 13:27

Tgt Ion: 45 Resp: 409577

Ion	Ratio	Lower	Upper
45	100		
77	13.0	0.0	32.6
79	10.5	0.0	30.2

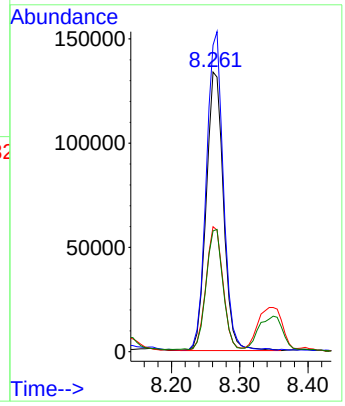




#17
2-Methylphenol
Concen: 58.199 ng
RT: 8.261 min Scan# 8
Delta R.T. 0.003 min
Lab File: BG058516.D
Acq: 28 Jul 2023 13:27

Tgt Ion:107 Resp: 23501

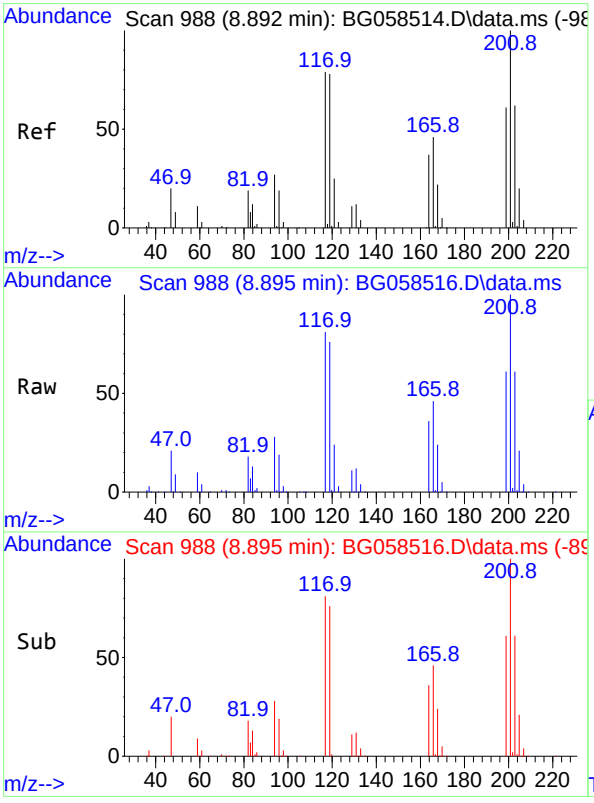
Ion	Ratio	Lower	Upper
107	100		
108	109.6	89.1	133.7
77	44.7	36.2	54.4
79	43.2	36.1	54.1



Instrument :
BNA_G
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

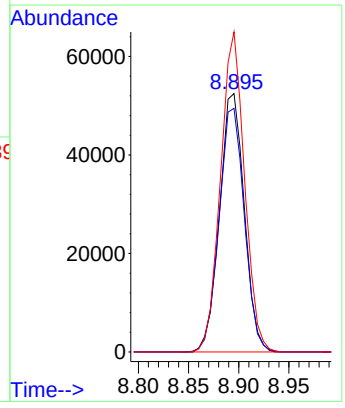
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

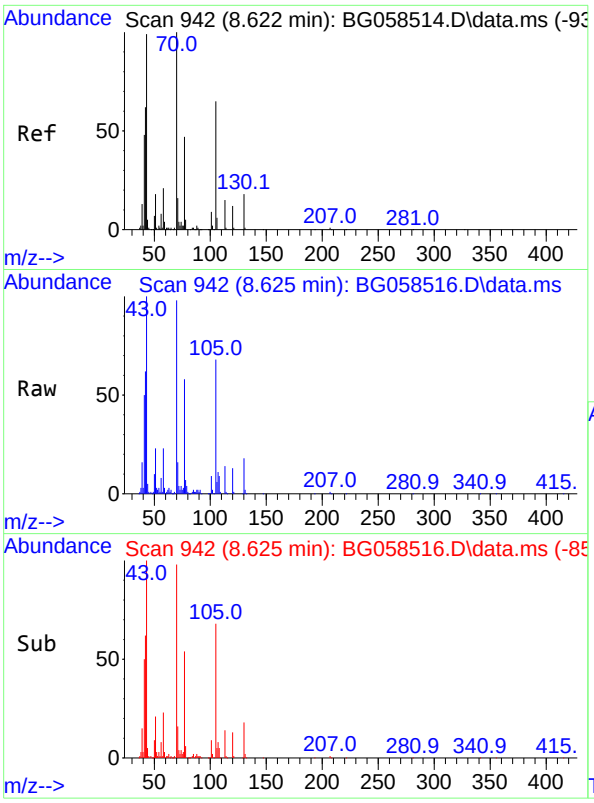


#18
Hexachloroethane
Concen: 58.004 ng
RT: 8.895 min Scan# 988
Delta R.T. 0.003 min
Lab File: BG058516.D
Acq: 28 Jul 2023 13:27

Tgt Ion:117 Resp: 90099

Ion	Ratio	Lower	Upper
117	100		
119	94.3	78.6	117.8
201	123.8	101.4	152.0

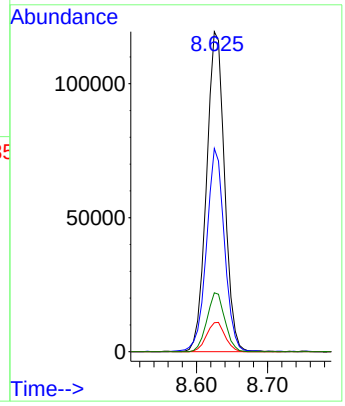




#19
n-Nitroso-di-n-propylamine
Concen: 57.874 ng
RT: 8.625 min Scan# 94
Delta R.T. 0.003 min
Lab File: BG058516.D
Acq: 28 Jul 2023 13:27

Tgt Ion: 70 Resp: 21134

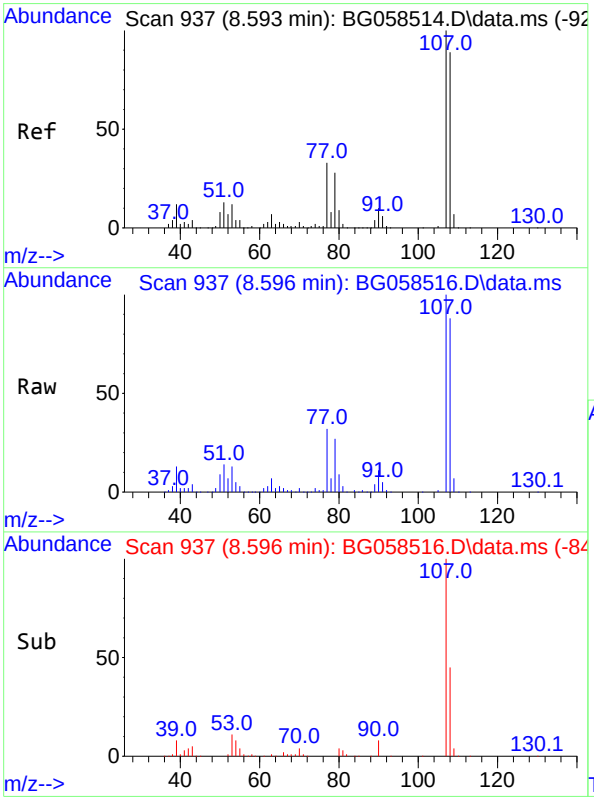
Ion	Ratio	Lower	Upper
70	100		
42	63.5	49.7	74.5
101	9.1	7.0	10.4
130	18.4	14.3	21.5



Instrument :
BNA_G
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

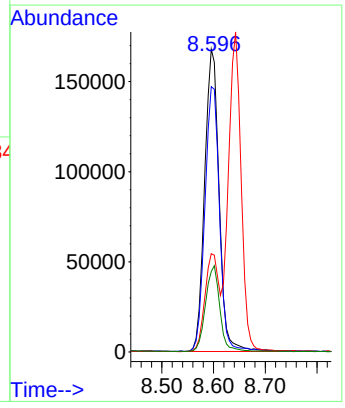
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

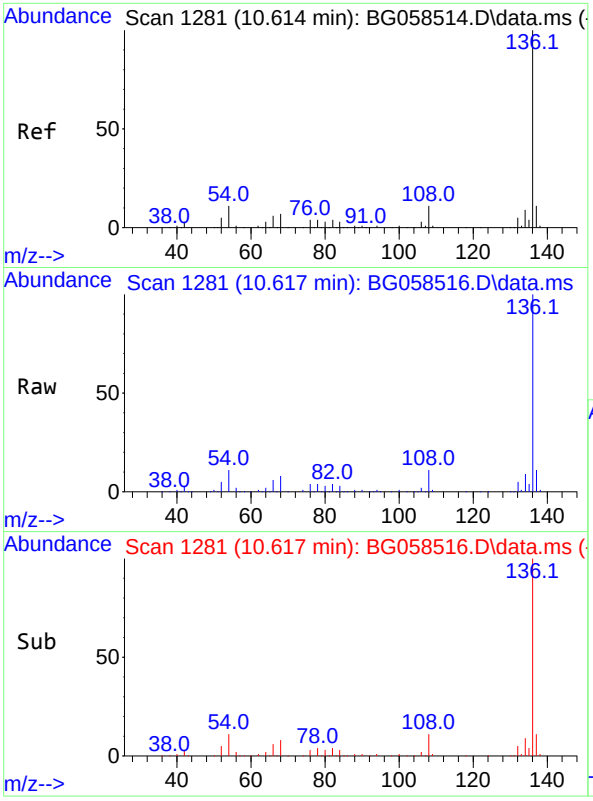


#20
3+4-Methylphenols
Concen: 59.757 ng
RT: 8.596 min Scan# 937
Delta R.T. 0.003 min
Lab File: BG058516.D
Acq: 28 Jul 2023 13:27

Tgt Ion:107 Resp: 326399

Ion	Ratio	Lower	Upper
107	100		
108	87.6	69.4	109.4
77	32.5	13.0	53.0
79	26.6	8.0	48.0

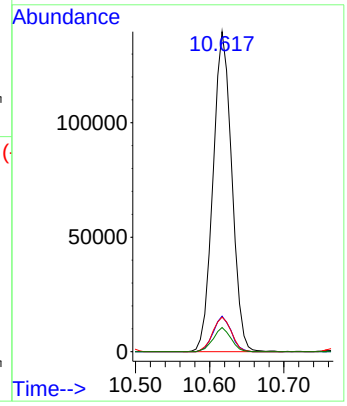




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.617 min Scan# 1
Delta R.T. 0.003 min
Lab File: BG058516.D
Acq: 28 Jul 2023 13:27

Tgt Ion:136 Resp: 24564

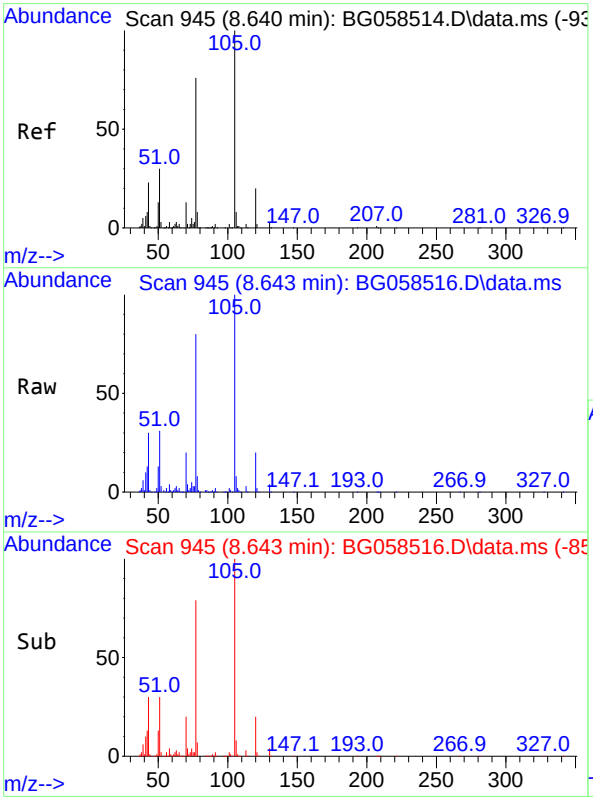
Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.6	13.0
54	10.8	8.9	13.3
68	7.5	5.6	8.4



Instrument :
BNA_G
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

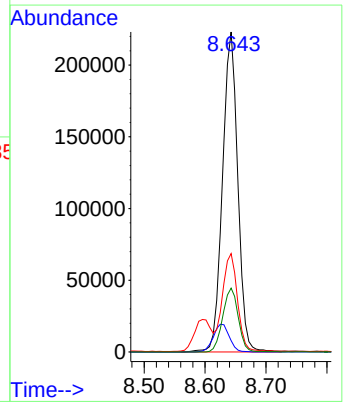
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

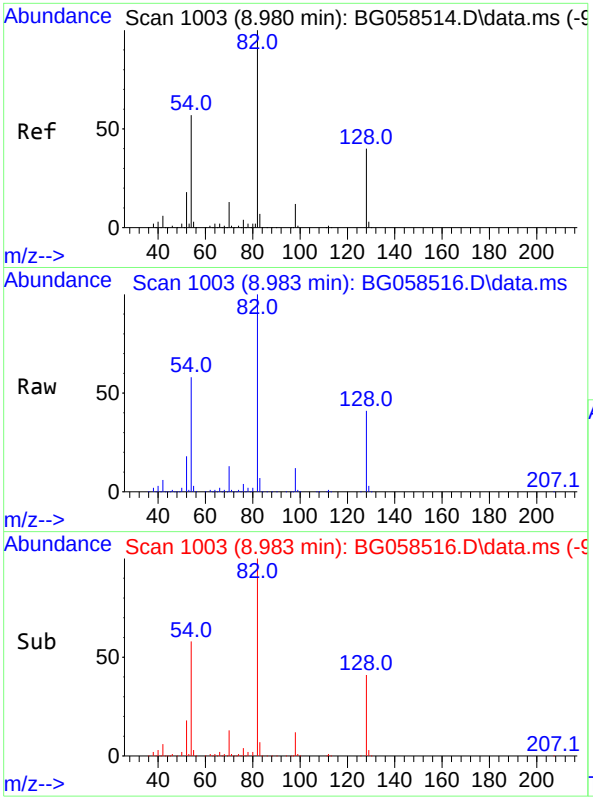


#22
Acetophenone
Concen: 58.951 ng
RT: 8.643 min Scan# 945
Delta R.T. 0.003 min
Lab File: BG058516.D
Acq: 28 Jul 2023 13:27

Tgt Ion:105 Resp: 387745

Ion	Ratio	Lower	Upper
105	100		
71	3.5	1.8	2.6#
51	30.7	24.2	36.2
120	20.0	16.2	24.4

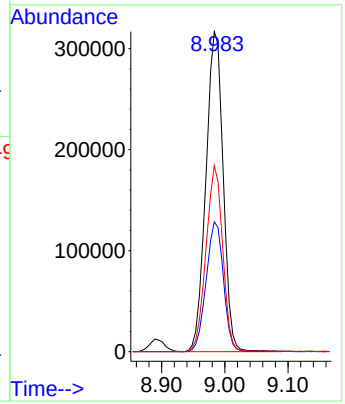




#23
Nitrobenzene-d5
Concen: 120.635 ng
RT: 8.983 min Scan# 1
Delta R.T. 0.003 min
Lab File: BG058516.D
Acq: 28 Jul 2023 13:27

Tgt Ion: 82 Resp: 60321

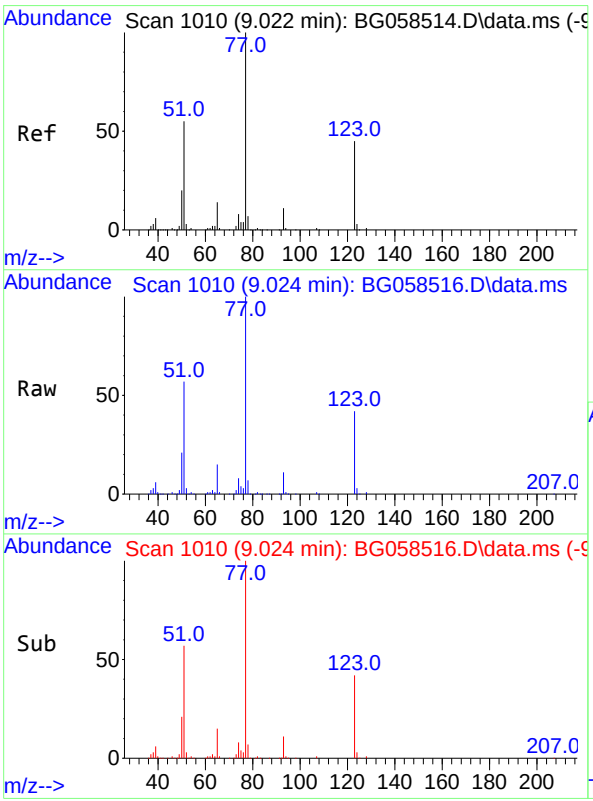
Ion	Ratio	Lower	Upper
82	100		
128	40.6	32.2	48.2
54	58.1	46.0	69.0



Instrument :
BNA_G
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

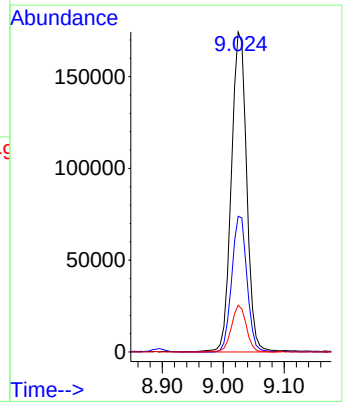
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

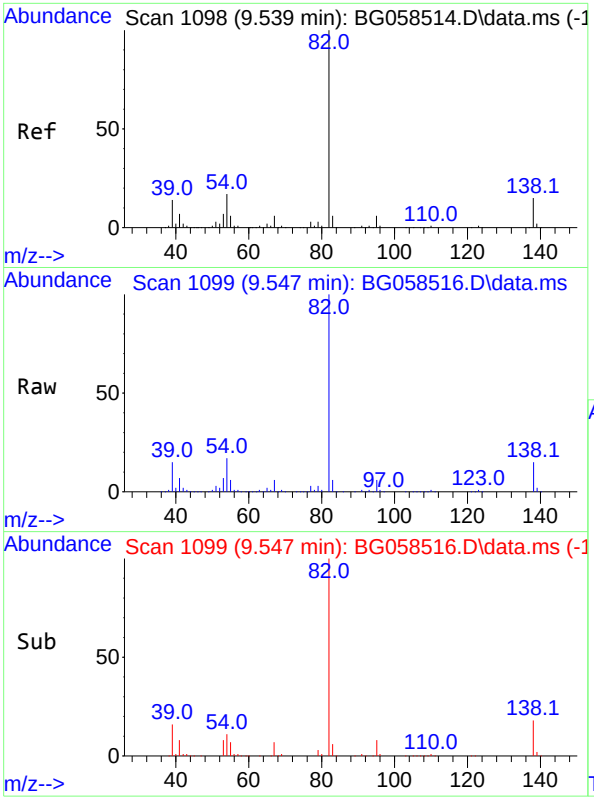


#24
Nitrobenzene
Concen: 60.154 ng
RT: 9.024 min Scan# 1010
Delta R.T. 0.003 min
Lab File: BG058516.D
Acq: 28 Jul 2023 13:27

Tgt Ion: 77 Resp: 305793

Ion	Ratio	Lower	Upper
77	100		
123	42.4	35.6	53.4
65	14.6	11.4	17.0

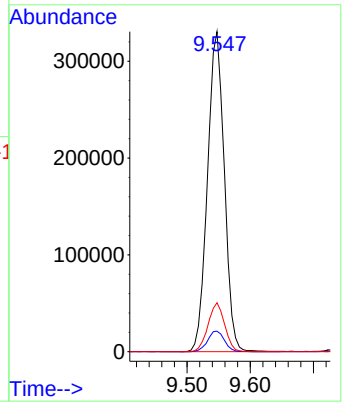




#25
Isophorone
Concen: 59.233 ng
RT: 9.547 min Scan# 1
Delta R.T. 0.009 min
Lab File: BG058516.D
Acq: 28 Jul 2023 13:27

Tgt Ion: 82 Resp: 61197

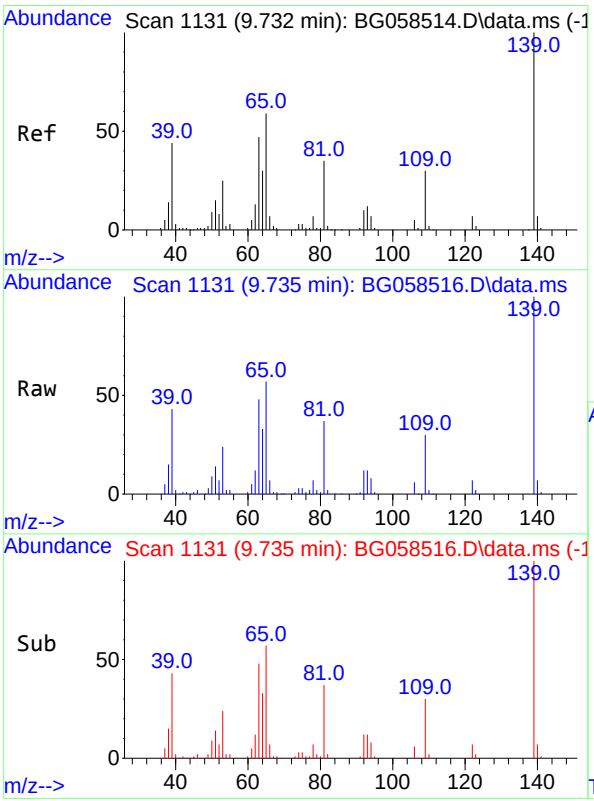
Ion	Ratio	Lower	Upper
82	100		
95	6.4	5.1	7.7
138	15.3	11.9	17.9



Instrument :
BNA_G
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

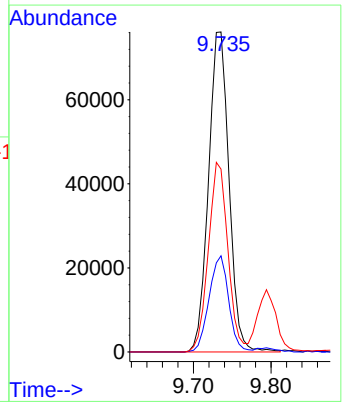
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

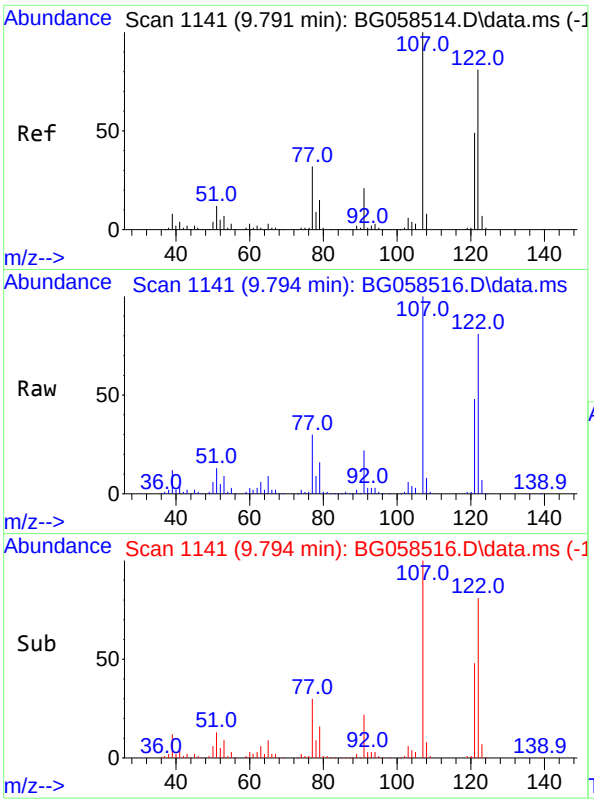


#26
2-Nitrophenol
Concen: 63.073 ng
RT: 9.735 min Scan# 1131
Delta R.T. 0.003 min
Lab File: BG058516.D
Acq: 28 Jul 2023 13:27

Tgt Ion:139 Resp: 139571

Ion	Ratio	Lower	Upper
139	100		
109	30.0	24.2	36.2
65	57.1	47.0	70.4

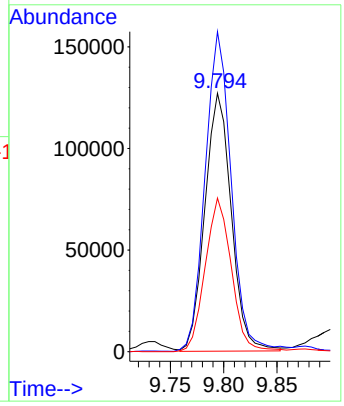




#27
2,4-Dimethylphenol
Concen: 59.731 ng
RT: 9.794 min Scan# 11
Delta R.T. 0.003 min
Lab File: BG058516.D
Acq: 28 Jul 2023 13:27

Tgt Ion:122 Resp: 21924

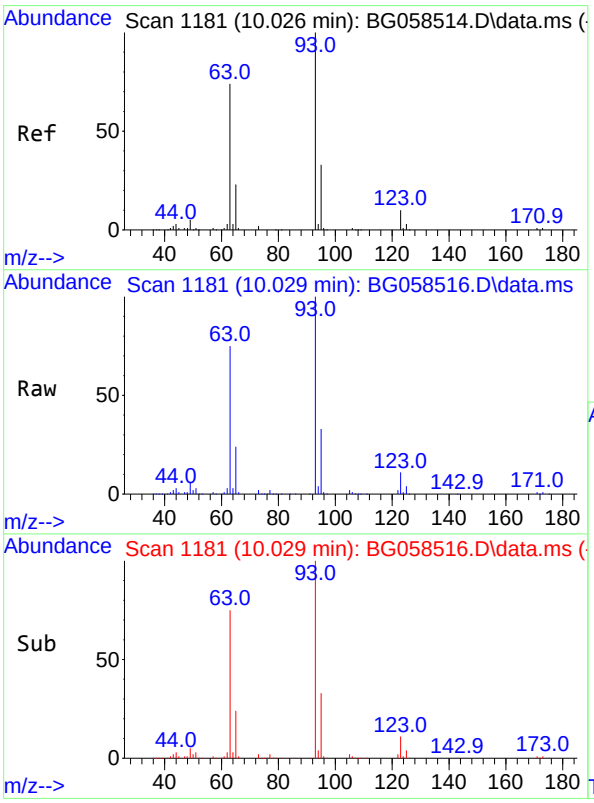
Ion	Ratio	Lower	Upper
122	100		
107	123.9	98.0	147.0
121	59.4	47.8	71.6



Instrument :
BNA_G
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

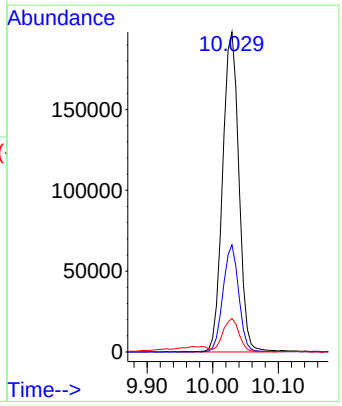
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

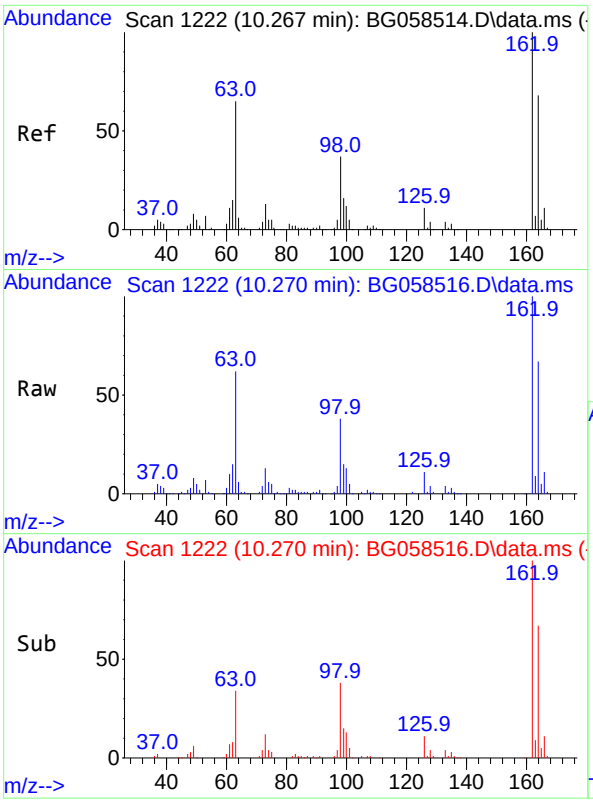


#28
bis(2-Chloroethoxy)methane
Concen: 60.572 ng
RT: 10.029 min Scan# 1181
Delta R.T. 0.003 min
Lab File: BG058516.D
Acq: 28 Jul 2023 13:27

Tgt Ion: 93 Resp: 340570

Ion	Ratio	Lower	Upper
93	100		
95	33.5	26.0	39.0
123	10.5	7.8	11.8

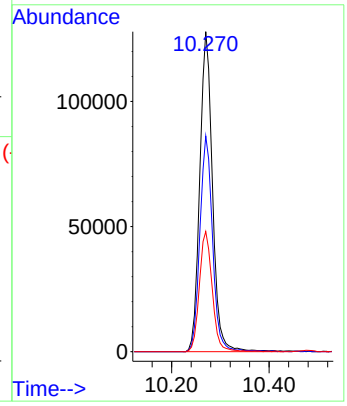




#29
2,4-Dichlorophenol
Concen: 61.000 ng
RT: 10.270 min Scan# 1
Delta R.T. 0.003 min
Lab File: BG058516.D
Acq: 28 Jul 2023 13:27

Tgt Ion:162 Resp: 23247

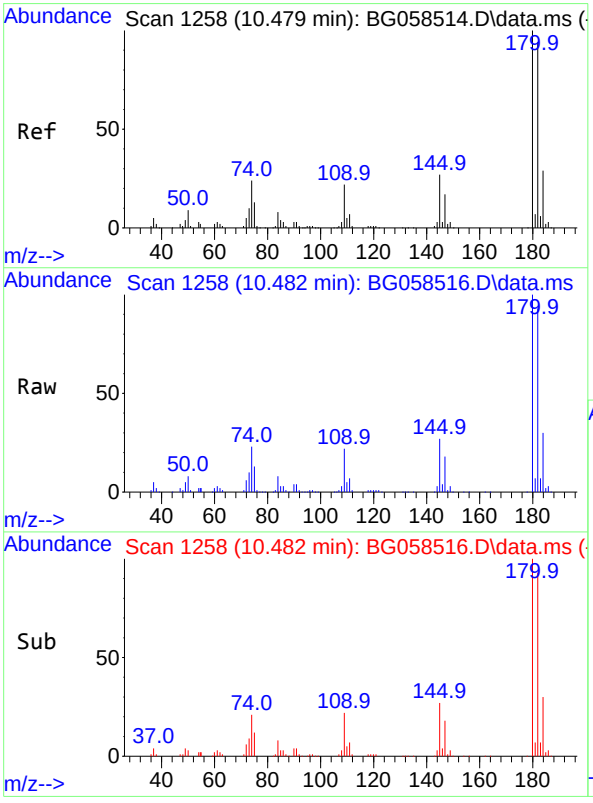
Ion	Ratio	Lower	Upper
162	100		
164	67.4	47.6	87.6
98	37.5	17.1	57.1



Instrument :
BNA_G
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

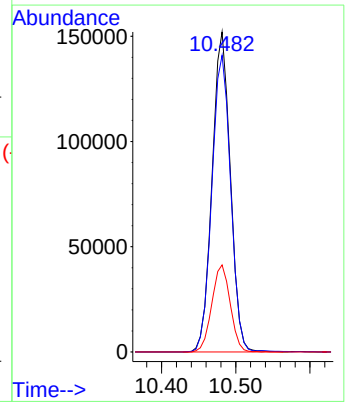
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

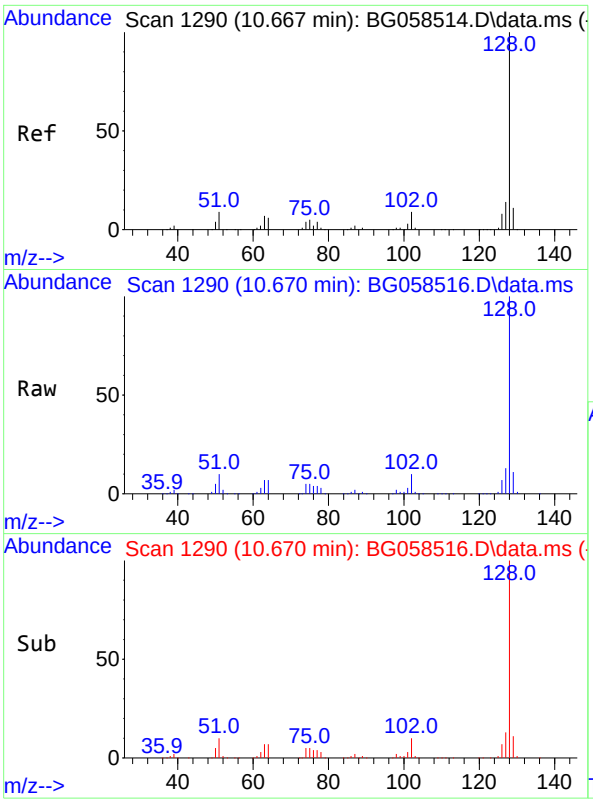


#30
1,2,4-Trichlorobenzene
Concen: 59.094 ng
RT: 10.482 min Scan# 1258
Delta R.T. 0.003 min
Lab File: BG058516.D
Acq: 28 Jul 2023 13:27

Tgt Ion:180 Resp: 259724

Ion	Ratio	Lower	Upper
180	100		
182	92.7	75.0	112.4
145	27.2	21.9	32.9

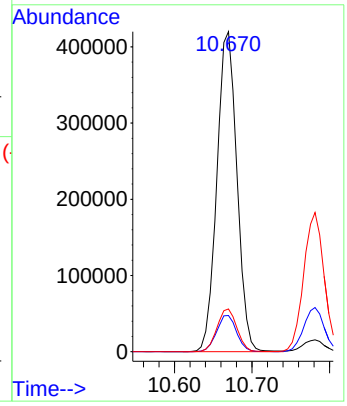




#31
Naphthalene
Concen: 58.366 ng
RT: 10.670 min Scan# 1
Delta R.T. 0.003 min
Lab File: BG058516.D
Acq: 28 Jul 2023 13:27

Tgt Ion:128 Resp: 75566

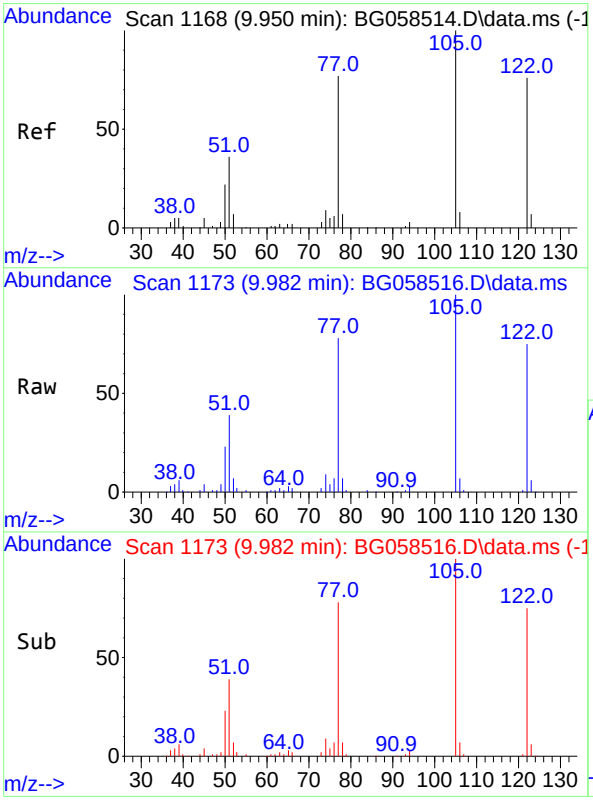
Ion	Ratio	Lower	Upper
128	100		
129	11.3	8.8	13.2
127	13.4	10.9	16.3



Instrument :
BNA_G
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

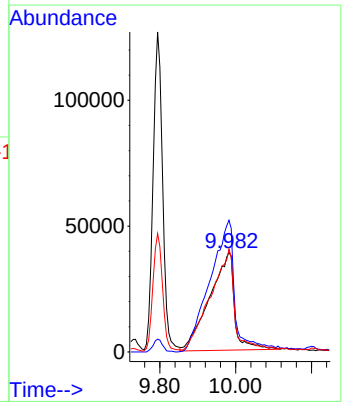
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

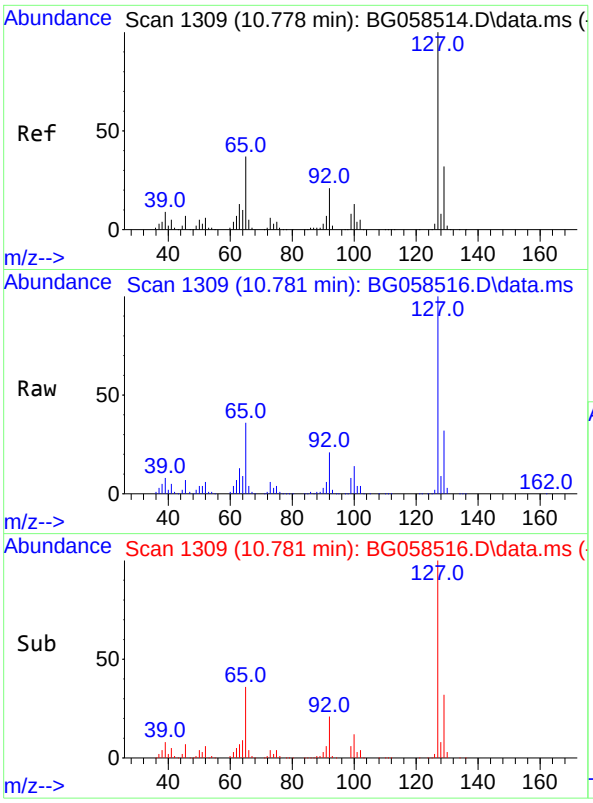


#32
Benzoic acid
Concen: 62.009 ng
RT: 9.982 min Scan# 1173
Delta R.T. 0.032 min
Lab File: BG058516.D
Acq: 28 Jul 2023 13:27

Tgt Ion:122 Resp: 177803

Ion	Ratio	Lower	Upper
122	100		
105	132.5	106.5	146.5
77	103.4	78.1	118.1

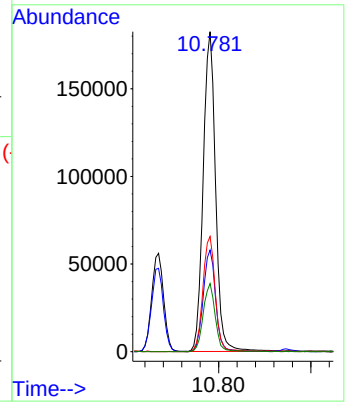




#33
4-Chloroaniline
Concen: 62.411 ng
RT: 10.781 min Scan# 1
Delta R.T. 0.003 min
Lab File: BG058516.D
Acq: 28 Jul 2023 13:27

Tgt Ion:127 Resp: 34139

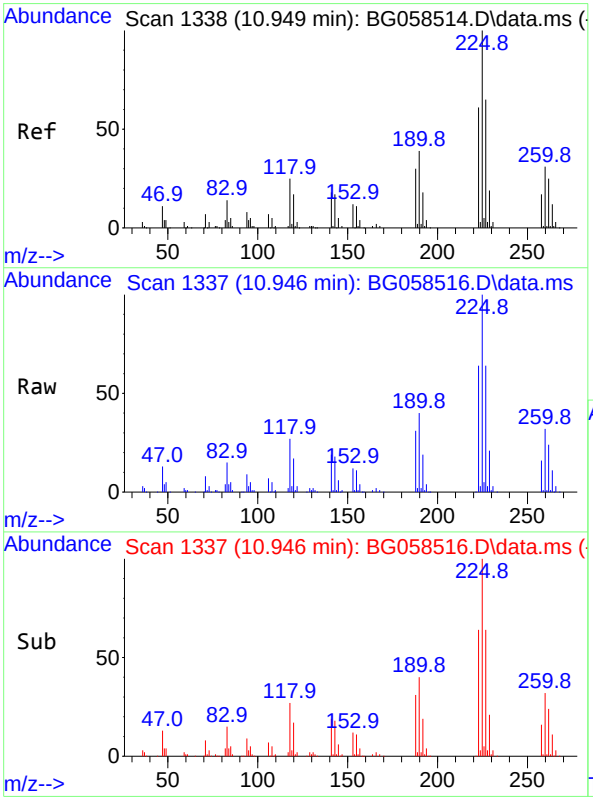
Ion	Ratio	Lower	Upper
127	100		
129	31.8	25.4	38.2
65	36.0	29.5	44.3
92	21.3	16.6	24.8



Instrument :
BNA_G
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

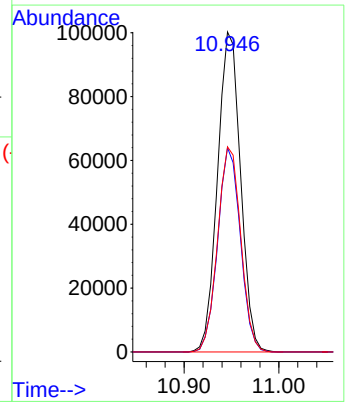
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

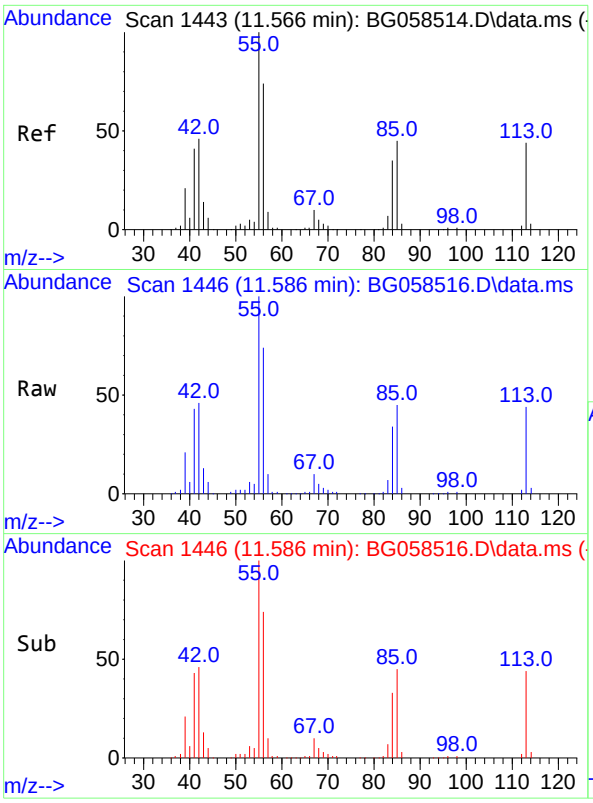


#34
Hexachlorobutadiene
Concen: 59.690 ng
RT: 10.946 min Scan# 1337
Delta R.T. -0.003 min
Lab File: BG058516.D
Acq: 28 Jul 2023 13:27

Tgt Ion:225 Resp: 168950

Ion	Ratio	Lower	Upper
225	100		
223	63.8	49.0	73.6
227	64.1	51.7	77.5

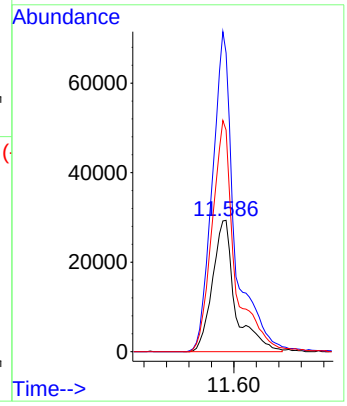




#35
Caprolactam
Concen: 58.932 ng m
RT: 11.586 min Scan# 14
Delta R.T. 0.021 min
Lab File: BG058516.D
Acq: 28 Jul 2023 13:27

Tgt Ion:113 Resp: 8293

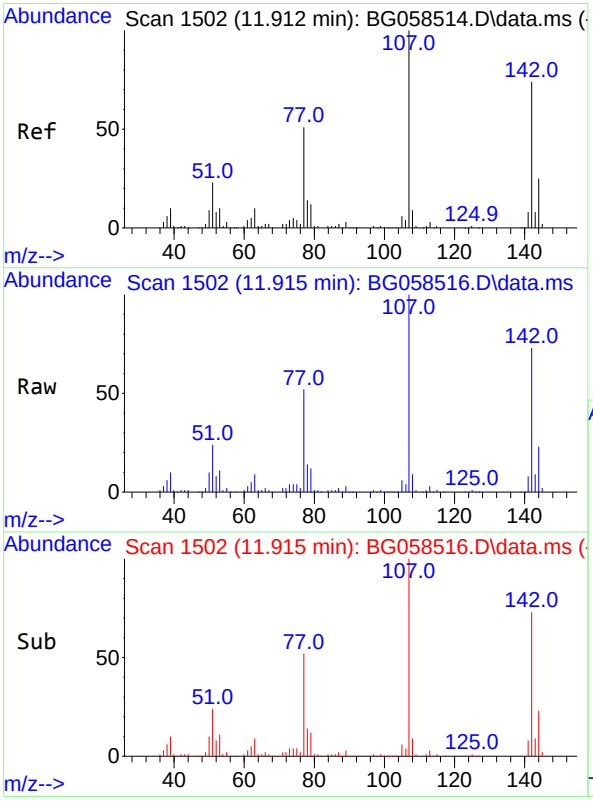
Ion	Ratio	Lower	Upper
113	100		
55	227.5	208.0	248.0
56	168.7	148.6	188.6



Instrument :
BNA_G
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

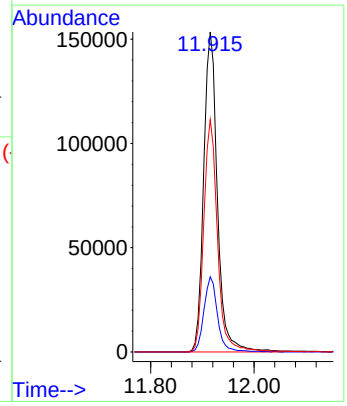
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

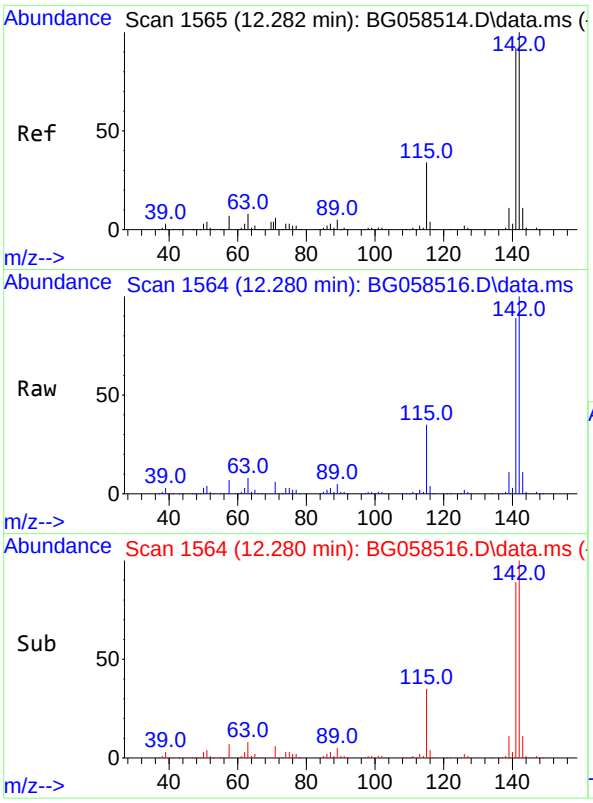


#36
4-Chloro-3-methylphenol
Concen: 59.993 ng
RT: 11.915 min Scan# 1502
Delta R.T. 0.003 min
Lab File: BG058516.D
Acq: 28 Jul 2023 13:27

Tgt Ion:107 Resp: 282831

Ion	Ratio	Lower	Upper
107	100		
144	23.5	19.6	29.4
142	72.6	59.3	88.9

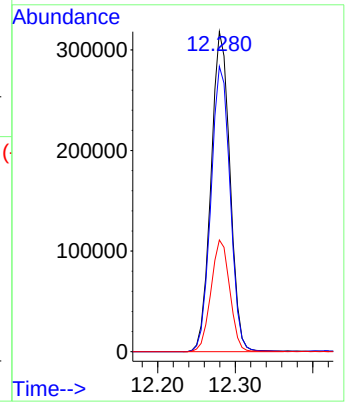




#37
2-Methylnaphthalene
Concen: 58.346 ng
RT: 12.280 min Scan# 1
Delta R.T. -0.003 min
Lab File: BG058516.D
Acq: 28 Jul 2023 13:27

Tgt Ion:142 Resp: 54035

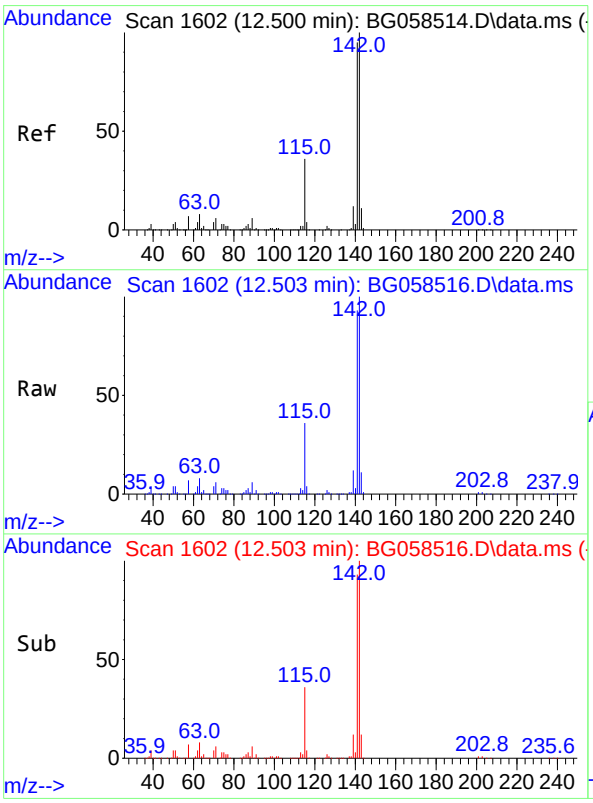
Ion	Ratio	Lower	Upper
142	100		
141	89.2	73.5	110.3
115	34.9	27.4	41.0



Instrument :
BNA_G
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

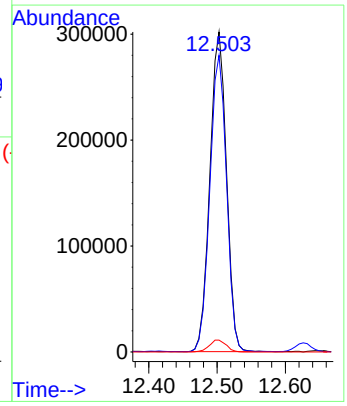
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

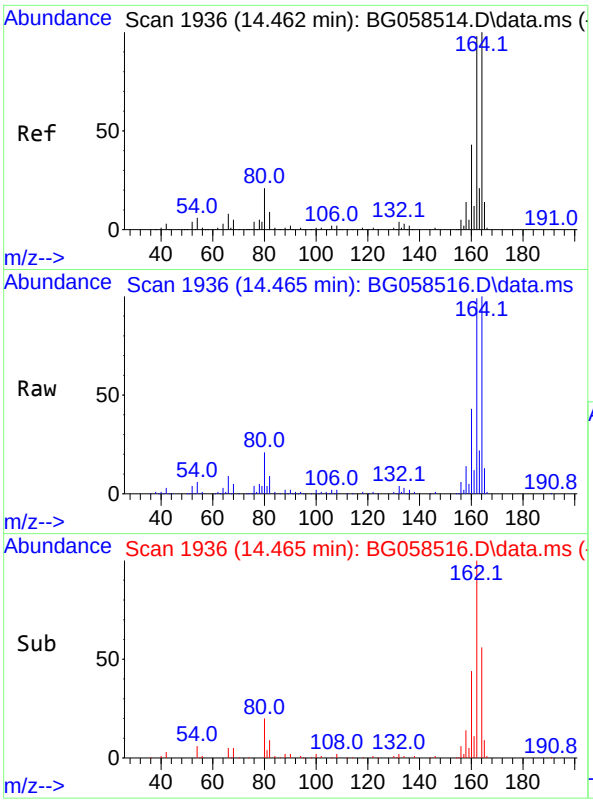


#38
1-Methylnaphthalene
Concen: 57.984 ng
RT: 12.503 min Scan# 1602
Delta R.T. 0.003 min
Lab File: BG058516.D
Acq: 28 Jul 2023 13:27

Tgt Ion:142 Resp: 510462

Ion	Ratio	Lower	Upper
142	100		
141	92.7	75.7	113.5
116	3.7	3.2	4.8

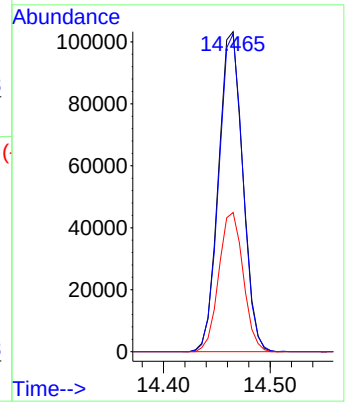




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.465 min Scan# 1
Delta R.T. 0.003 min
Lab File: BG058516.D
Acq: 28 Jul 2023 13:27

Tgt Ion:164 Resp: 16323

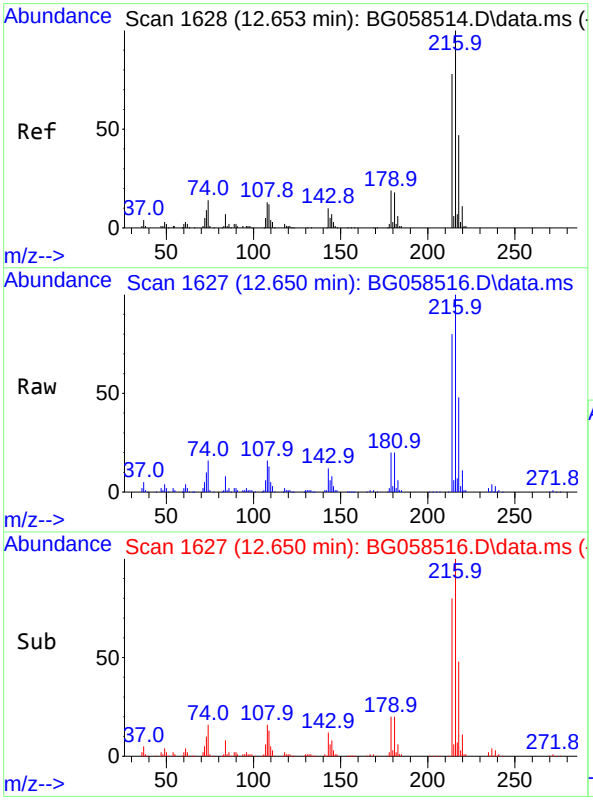
Ion	Ratio	Lower	Upper
164	100		
162	99.2	78.3	117.5
160	43.5	34.1	51.1



Instrument :
BNA_G
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

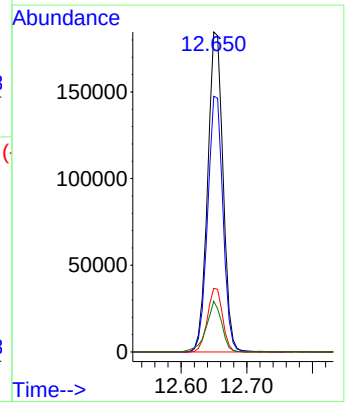
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

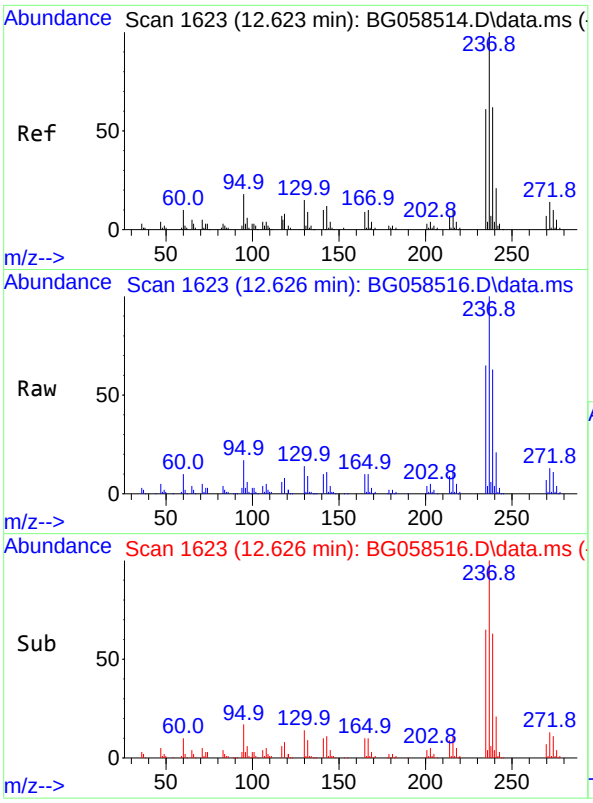


#40
1,2,4,5-Tetrachlorobenzene
Concen: 60.077 ng
RT: 12.650 min Scan# 1627
Delta R.T. -0.003 min
Lab File: BG058516.D
Acq: 28 Jul 2023 13:27

Tgt Ion:216 Resp: 301065

Ion	Ratio	Lower	Upper
216	100		
214	79.4	63.1	94.7
179	19.6	15.6	23.4
108	15.9	12.7	19.1

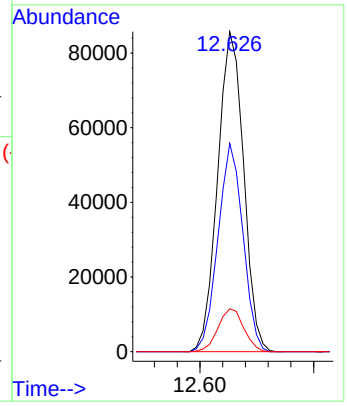




#41
Hexachlorocyclopentadiene
Concen: 60.225 ng
RT: 12.626 min Scan# 1
Delta R.T. 0.003 min
Lab File: BG058516.D
Acq: 28 Jul 2023 13:27

Tgt Ion:237 Resp: 13589

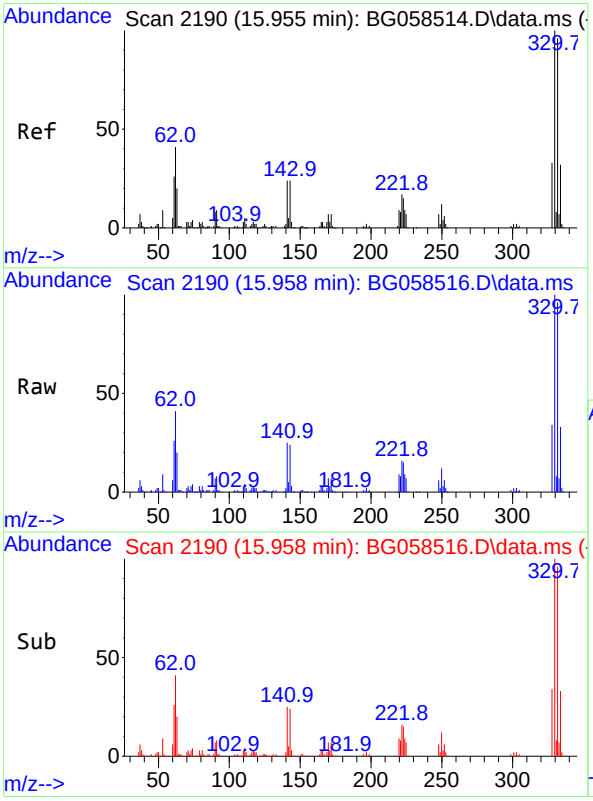
Ion	Ratio	Lower	Upper
237	100		
235	65.0	41.0	81.0
272	13.4	0.0	33.6



Instrument :
BNA_G
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

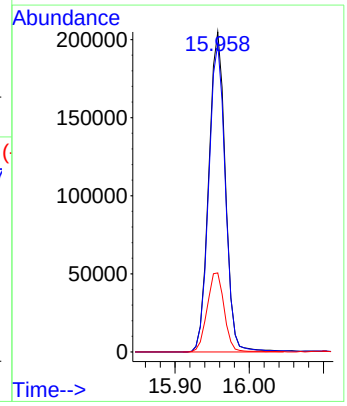
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

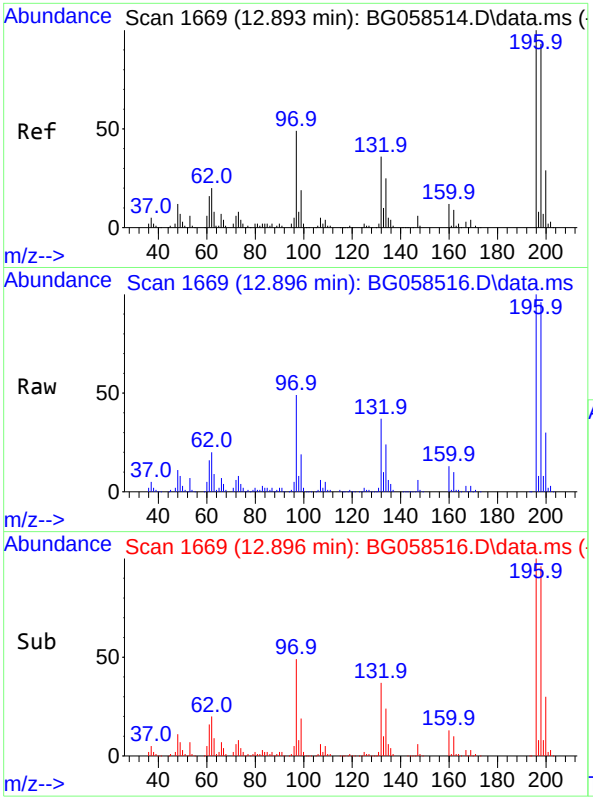


#42
2,4,6-Tribromophenol
Concen: 119.303 ng
RT: 15.958 min Scan# 2190
Delta R.T. 0.003 min
Lab File: BG058516.D
Acq: 28 Jul 2023 13:27

Tgt Ion:330 Resp: 319190

Ion	Ratio	Lower	Upper
330	100		
332	96.5	77.5	116.3
141	25.6	20.7	31.1

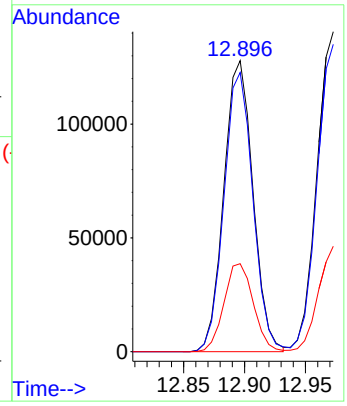




#43
2,4,6-Trichlorophenol
Concen: 61.580 ng
RT: 12.896 min Scan# 1
Delta R.T. 0.003 min
Lab File: BG058516.D
Acq: 28 Jul 2023 13:27

Tgt Ion:196 Resp: 21225

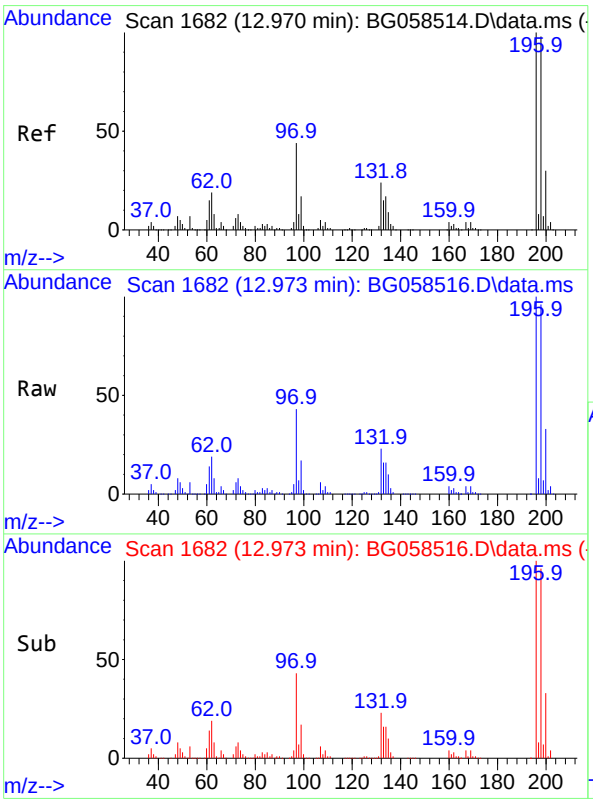
Ion	Ratio	Lower	Upper
196	100		
198	95.9	74.2	111.4
200	30.2	22.9	34.3



Instrument :
BNA_G
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

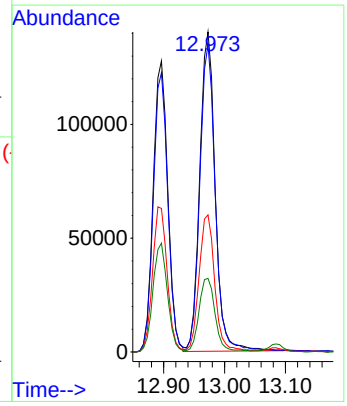
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

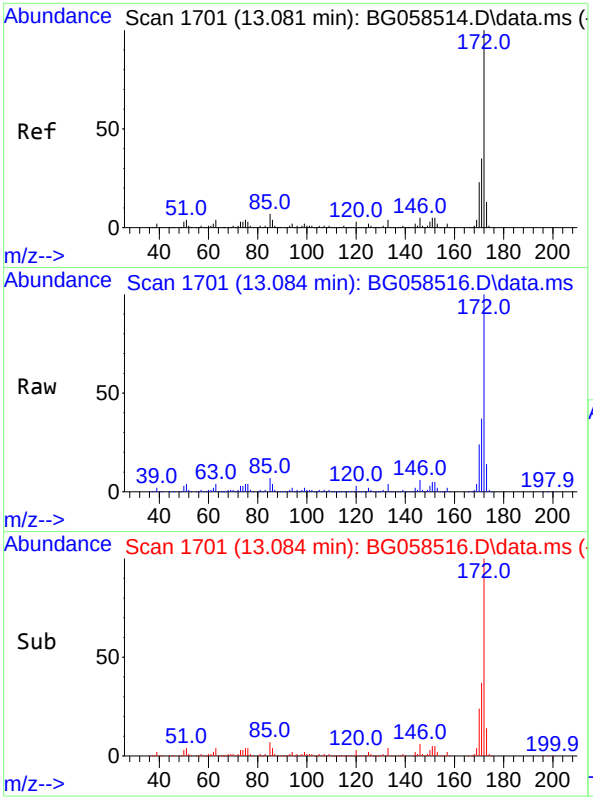


#44
2,4,5-Trichlorophenol
Concen: 60.940 ng
RT: 12.973 min Scan# 1682
Delta R.T. 0.003 min
Lab File: BG058516.D
Acq: 28 Jul 2023 13:27

Tgt Ion:196 Resp: 247408

Ion	Ratio	Lower	Upper
196	100		
198	96.0	78.3	117.5
97	42.9	35.2	52.8
132	23.0	19.4	29.0

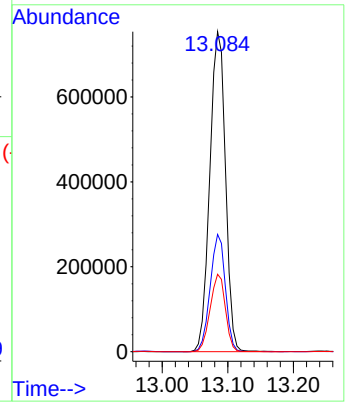




#45
2-Fluorobiphenyl
Concen: 115.045 ng
RT: 13.084 min Scan# 1
Delta R.T. 0.003 min
Lab File: BG058516.D
Acq: 28 Jul 2023 13:27

Tgt Ion:172 Resp: 125309

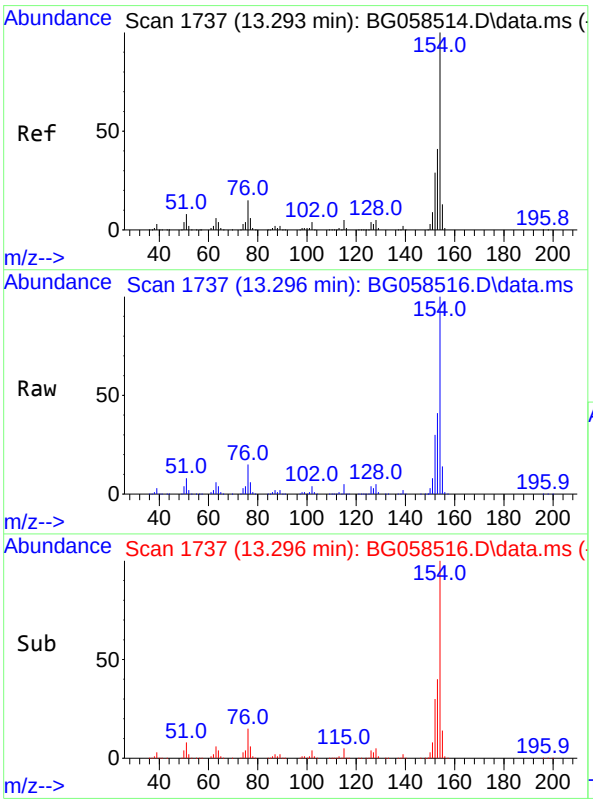
Ion	Ratio	Lower	Upper
172	100		
171	36.6	28.0	42.0
170	24.2	18.4	27.6



Instrument :
BNA_G
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

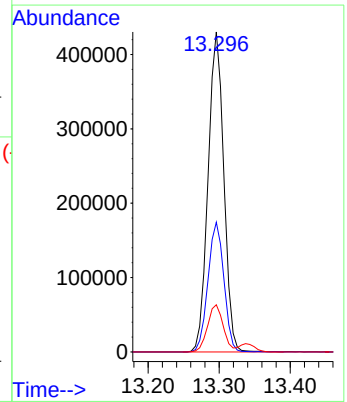
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

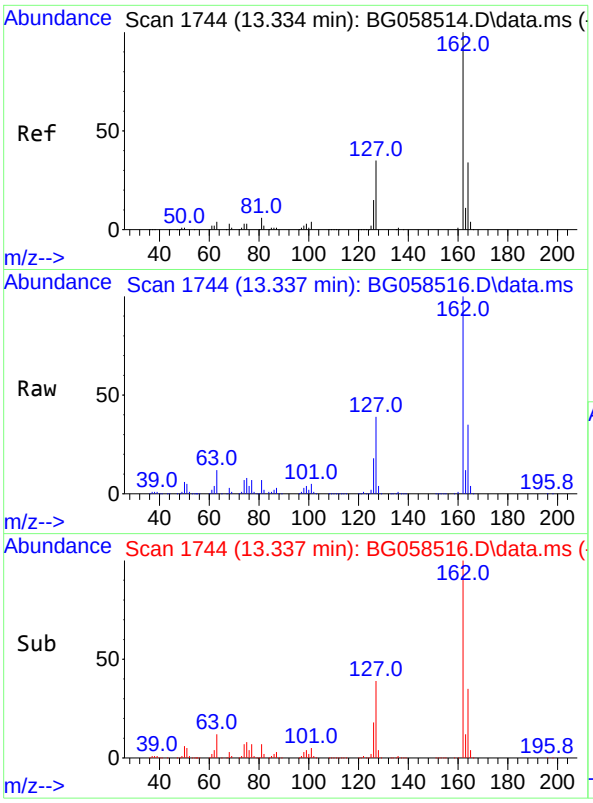


#46
1,1'-Biphenyl
Concen: 59.189 ng
RT: 13.296 min Scan# 1737
Delta R.T. 0.003 min
Lab File: BG058516.D
Acq: 28 Jul 2023 13:27

Tgt Ion:154 Resp: 663497

Ion	Ratio	Lower	Upper
154	100		
153	40.6	21.2	61.2
76	14.7	0.0	34.7

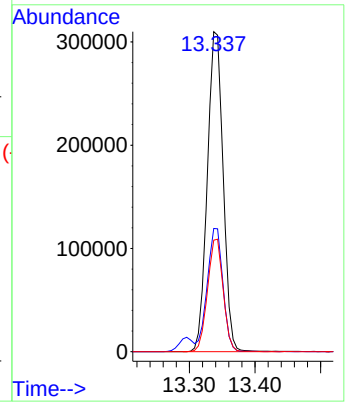




#47
2-Chloronaphthalene
Concen: 59.651 ng
RT: 13.337 min Scan# 1
Delta R.T. 0.003 min
Lab File: BG058516.D
Acq: 28 Jul 2023 13:27

Tgt Ion:162 Resp: 52136

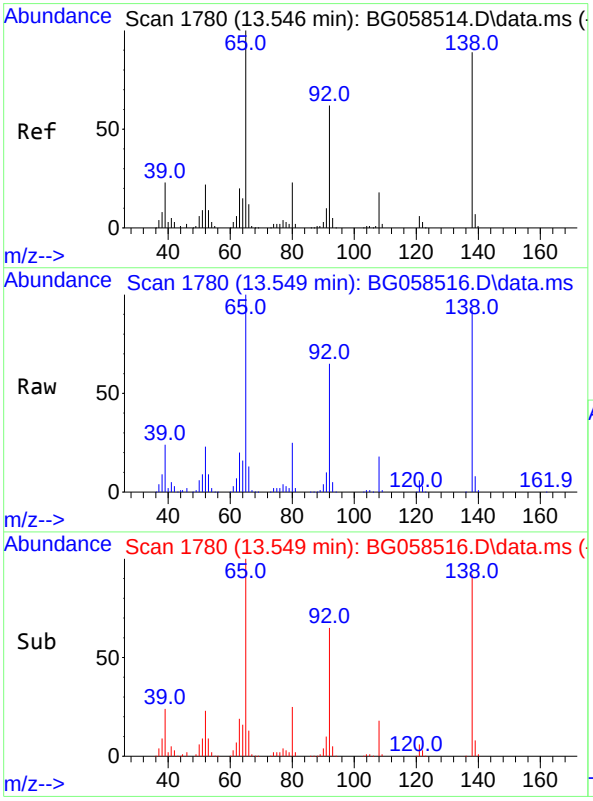
Ion	Ratio	Lower	Upper
162	100		
127	38.5	30.9	46.3
164	34.8	27.2	40.8



Instrument :
BNA_G
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

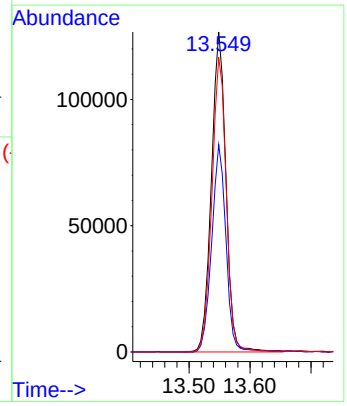
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

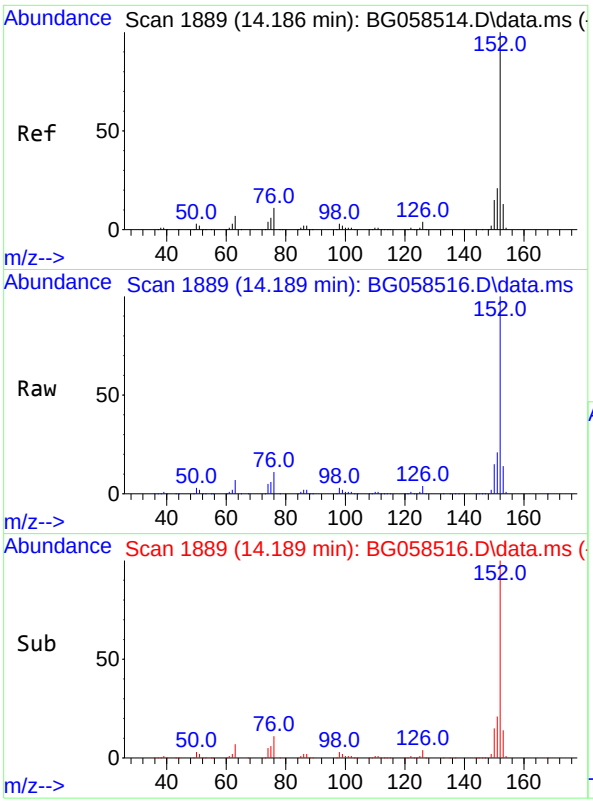


#48
2-Nitroaniline
Concen: 63.031 ng
RT: 13.549 min Scan# 1780
Delta R.T. 0.003 min
Lab File: BG058516.D
Acq: 28 Jul 2023 13:27

Tgt Ion: 65 Resp: 210278

Ion	Ratio	Lower	Upper
65	100		
92	64.8	49.2	73.8
138	92.0	71.5	107.3

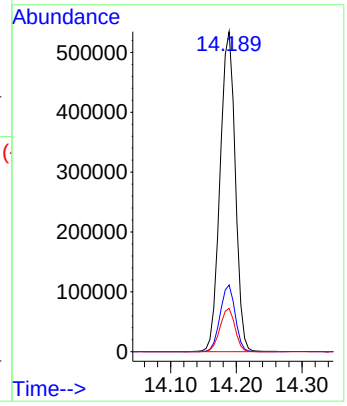




#49
Acenaphthylene
Concen: 58.613 ng
RT: 14.189 min Scan# 1
Delta R.T. 0.003 min
Lab File: BG058516.D
Acq: 28 Jul 2023 13:27

Tgt Ion:152 Resp: 85770

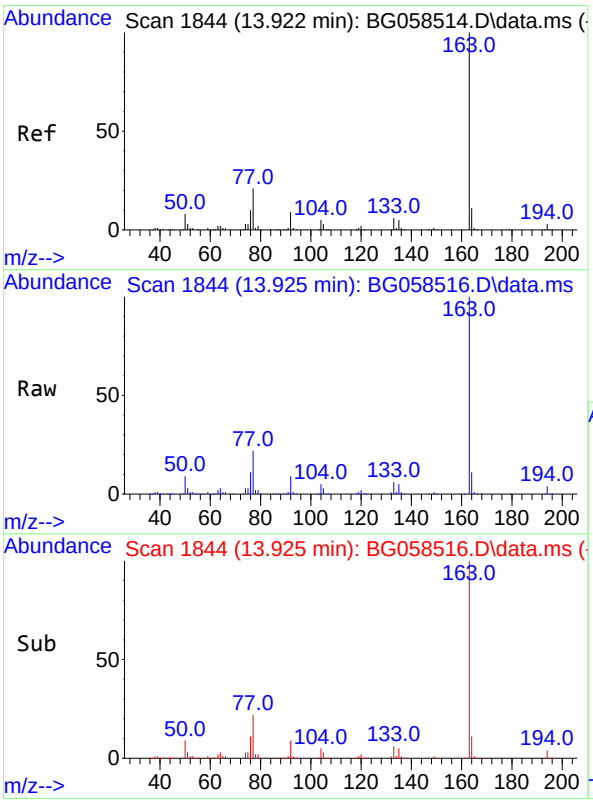
Ion	Ratio	Lower	Upper
152	100		
151	20.9	16.5	24.7
153	13.6	10.7	16.1



Instrument :
BNA_G
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

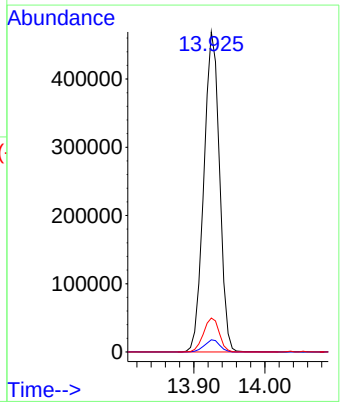
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

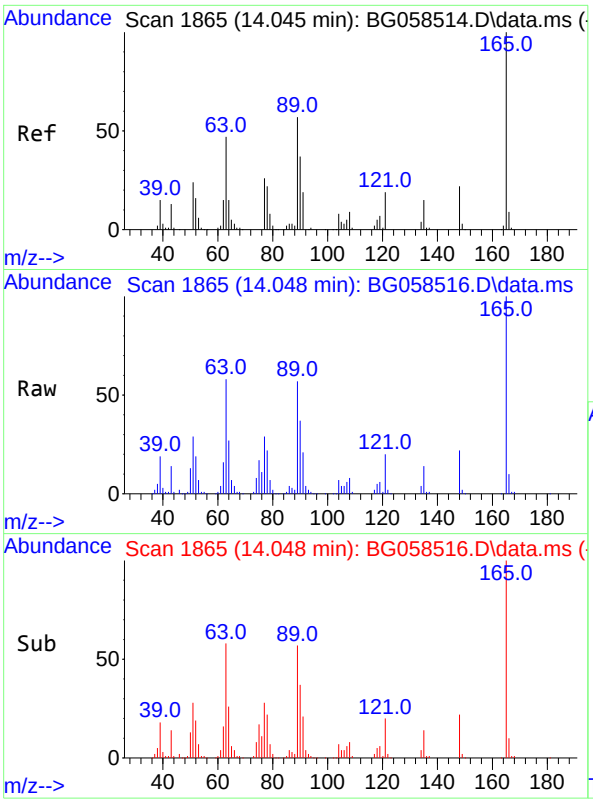


#50
Dimethylphthalate
Concen: 58.644 ng
RT: 13.925 min Scan# 1844
Delta R.T. 0.003 min
Lab File: BG058516.D
Acq: 28 Jul 2023 13:27

Tgt Ion:163 Resp: 718910

Ion	Ratio	Lower	Upper
163	100		
194	3.8	2.7	4.1
164	10.6	8.6	12.8

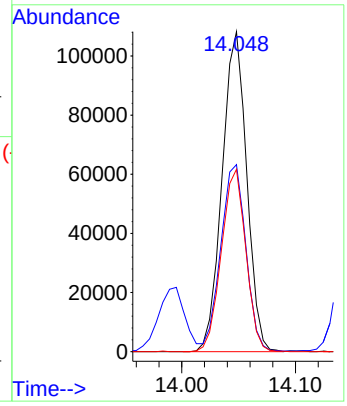




#51
2,6-Dinitrotoluene
Concen: 60.405 ng
RT: 14.048 min Scan# 1
Delta R.T. 0.003 min
Lab File: BG058516.D
Acq: 28 Jul 2023 13:27

Tgt Ion:165 Resp: 16247

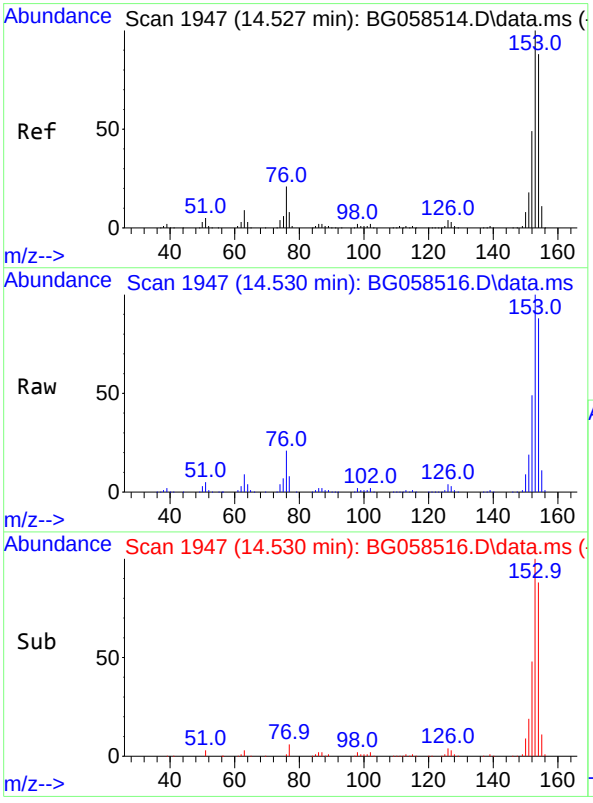
Ion	Ratio	Lower	Upper
165	100		
63	58.4	46.4	69.6
89	57.0	45.3	67.9



Instrument :
BNA_G
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

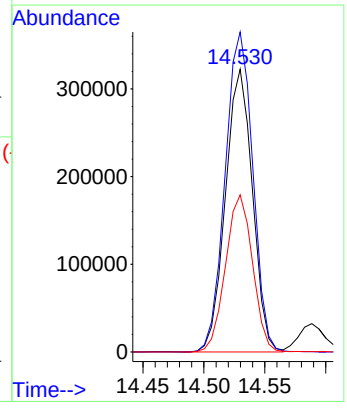
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

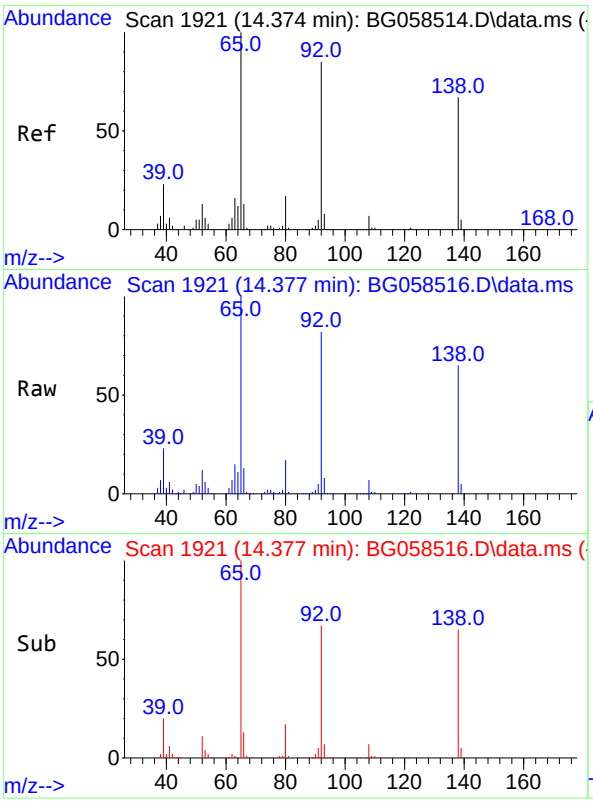


#52
Acenaphthene
Concen: 58.945 ng
RT: 14.530 min Scan# 1947
Delta R.T. 0.003 min
Lab File: BG058516.D
Acq: 28 Jul 2023 13:27

Tgt Ion:154 Resp: 498407

Ion	Ratio	Lower	Upper
154	100		
153	113.2	91.1	136.7
152	55.6	44.6	66.8

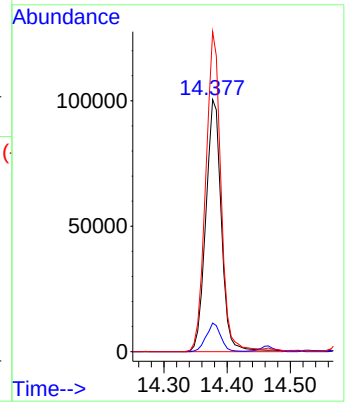




#53
3-Nitroaniline
Concen: 63.682 ng
RT: 14.377 min Scan# 1
Delta R.T. 0.003 min
Lab File: BG058516.D
Acq: 28 Jul 2023 13:27

Tgt Ion:138 Resp: 171379

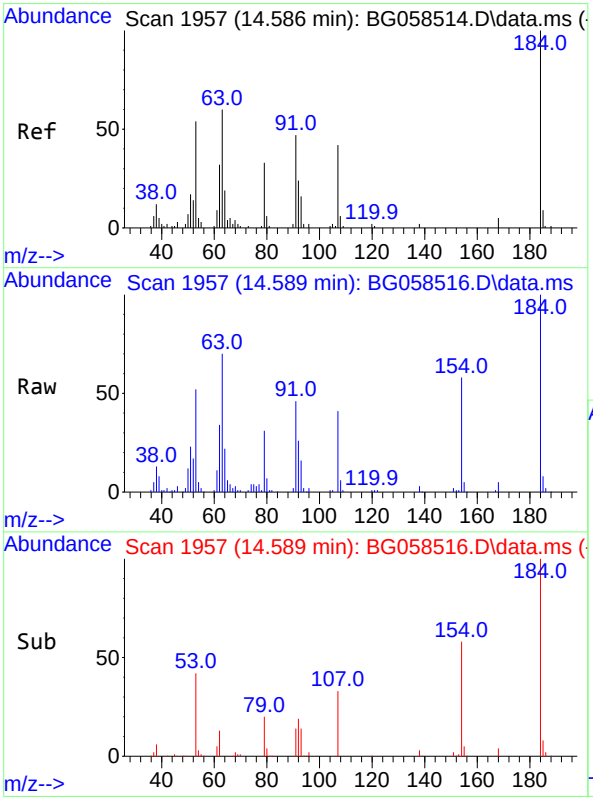
Ion	Ratio	Lower	Upper
138	100		
108	11.3	8.3	12.5
92	126.9	101.1	151.7



Instrument :
BNA_G
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

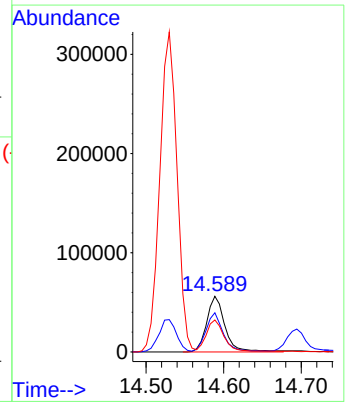
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

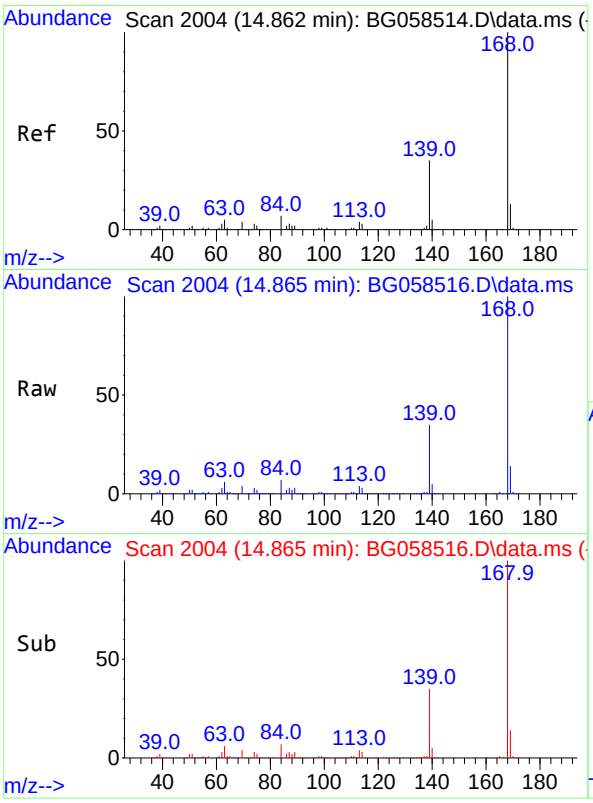


#54
2,4-Dinitrophenol
Concen: 62.476 ng
RT: 14.589 min Scan# 1957
Delta R.T. 0.003 min
Lab File: BG058516.D
Acq: 28 Jul 2023 13:27

Tgt Ion:184 Resp: 91990

Ion	Ratio	Lower	Upper
184	100		
63	70.3	56.7	85.1
154	57.6	46.1	69.1

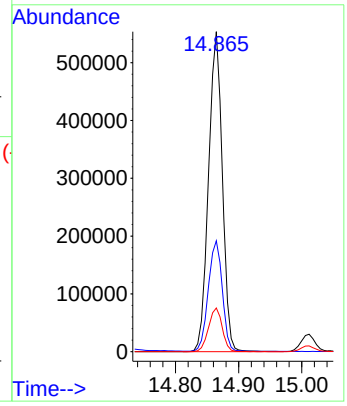




#55
Dibenzofuran
Concen: 57.651 ng
RT: 14.865 min Scan# 2
Delta R.T. 0.003 min
Lab File: BG058516.D
Acq: 28 Jul 2023 13:27

Tgt Ion:168 Resp: 83762

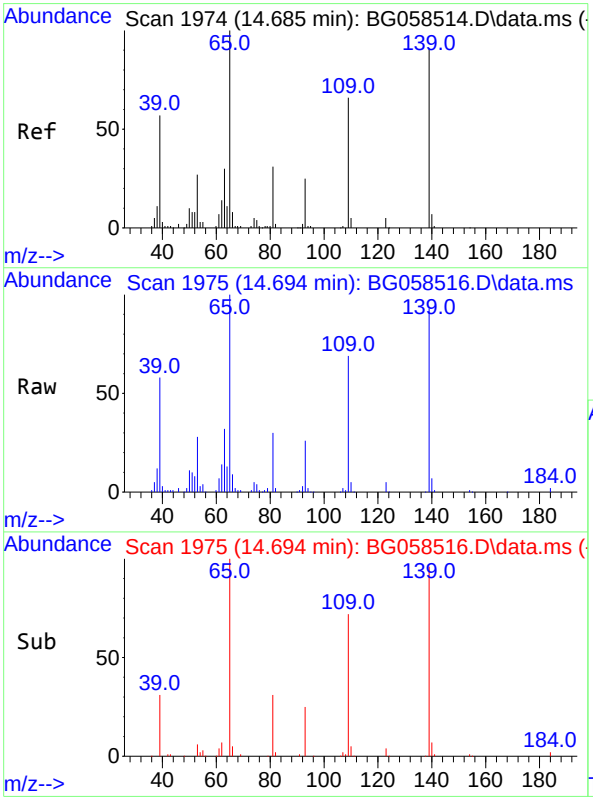
Ion	Ratio	Lower	Upper
168	100		
139	34.6	27.8	41.8
169	13.7	10.6	16.0



Instrument :
BNA_G
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

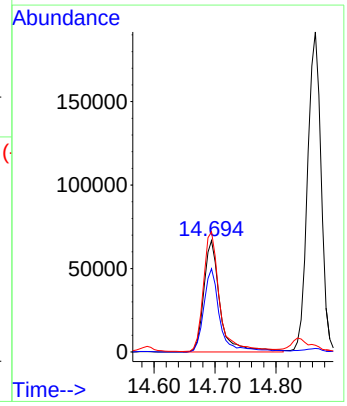
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

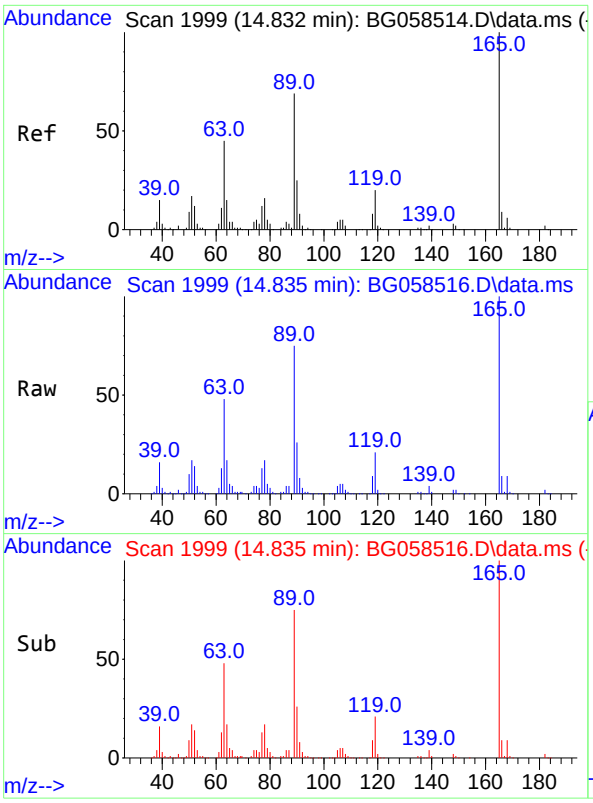


#56
4-Nitrophenol
Concen: 62.772 ng
RT: 14.694 min Scan# 1975
Delta R.T. 0.009 min
Lab File: BG058516.D
Acq: 28 Jul 2023 13:27

Tgt Ion:139 Resp: 123729

Ion	Ratio	Lower	Upper
139	100		
109	74.7	52.5	92.5
65	107.9	90.5	130.5

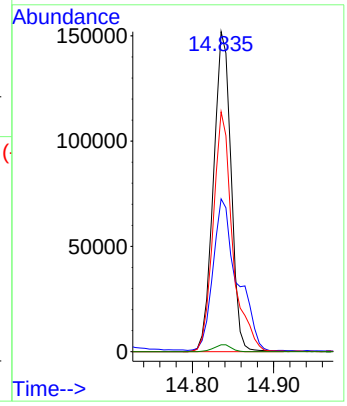




#57
2,4-Dinitrotoluene
Concen: 61.232 ng
RT: 14.835 min Scan# 1
Delta R.T. 0.003 min
Lab File: BG058516.D
Acq: 28 Jul 2023 13:27

Tgt Ion:165 Resp: 22834

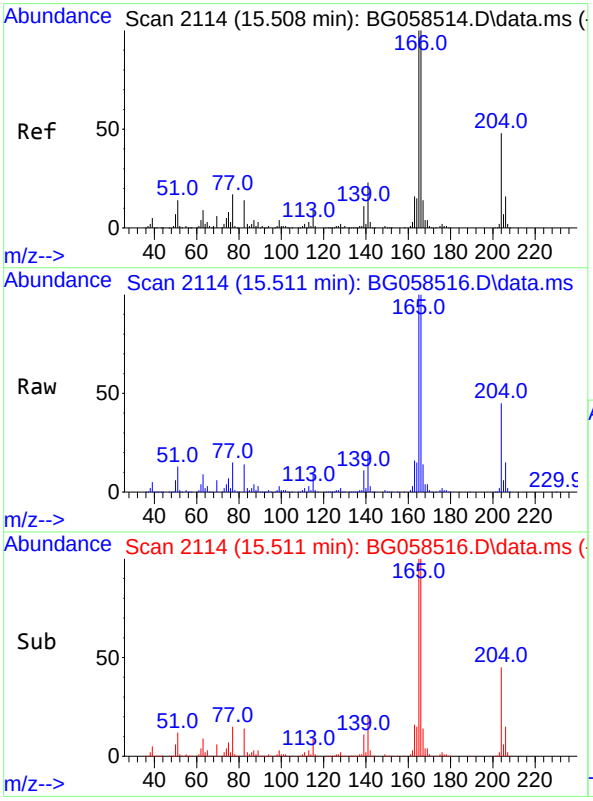
Ion	Ratio	Lower	Upper
165	100		
63	47.7	36.6	54.8
89	74.9	55.4	83.0
182	2.1	1.8	2.6



Instrument :
BNA_G
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

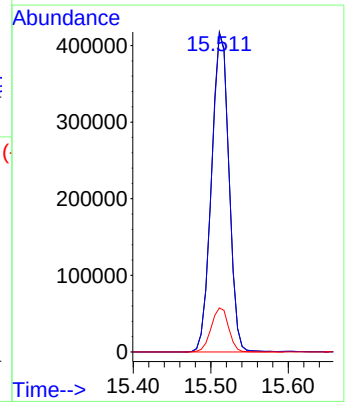
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

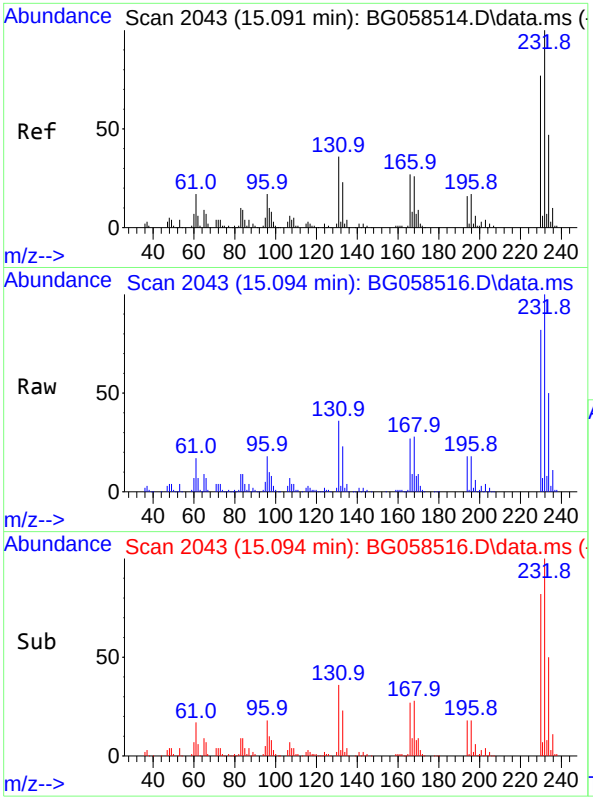


#58
Fluorene
Concen: 56.552 ng
RT: 15.511 min Scan# 2114
Delta R.T. 0.003 min
Lab File: BG058516.D
Acq: 28 Jul 2023 13:27

Tgt Ion:166 Resp: 652730

Ion	Ratio	Lower	Upper
166	100		
165	99.5	80.0	120.0
167	13.7	11.3	16.9

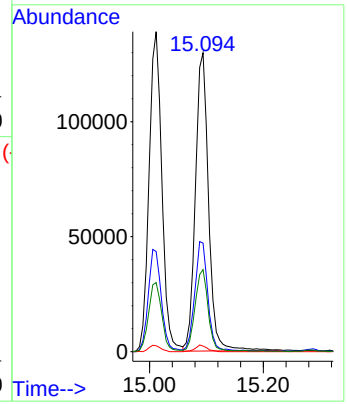




#59
2,3,4,6-Tetrachlorophenol
Concen: 60.190 ng
RT: 15.094 min Scan# 2
Delta R.T. 0.003 min
Lab File: BG058516.D
Acq: 28 Jul 2023 13:27

Tgt Ion:232 Resp: 20852

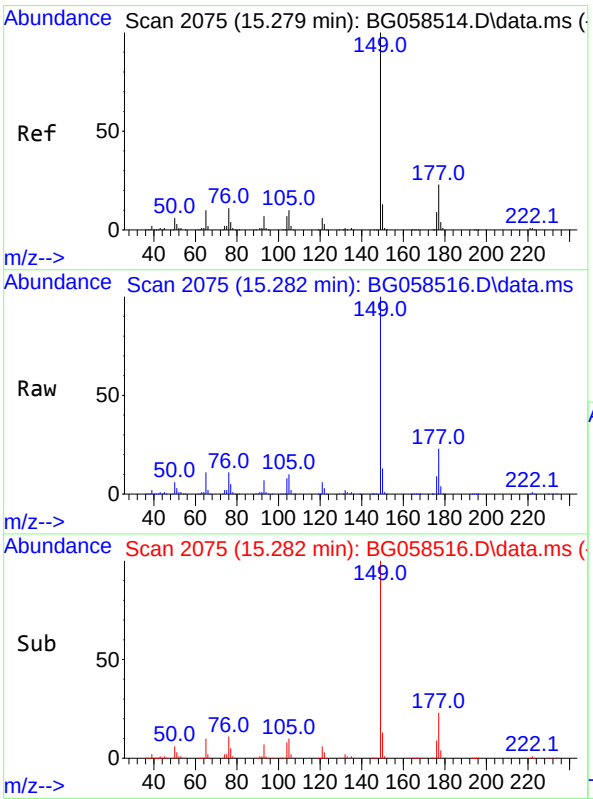
Ion	Ratio	Lower	Upper
232	100		
131	36.7	30.0	45.0
130	2.0	1.5	2.3
166	26.6	22.8	34.2



Instrument :
BNA_G
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

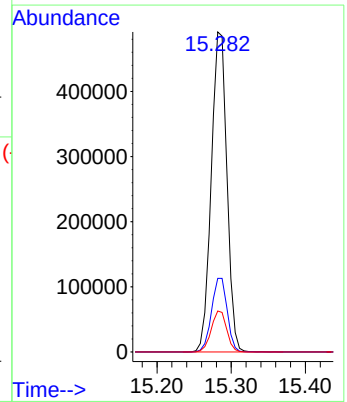
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

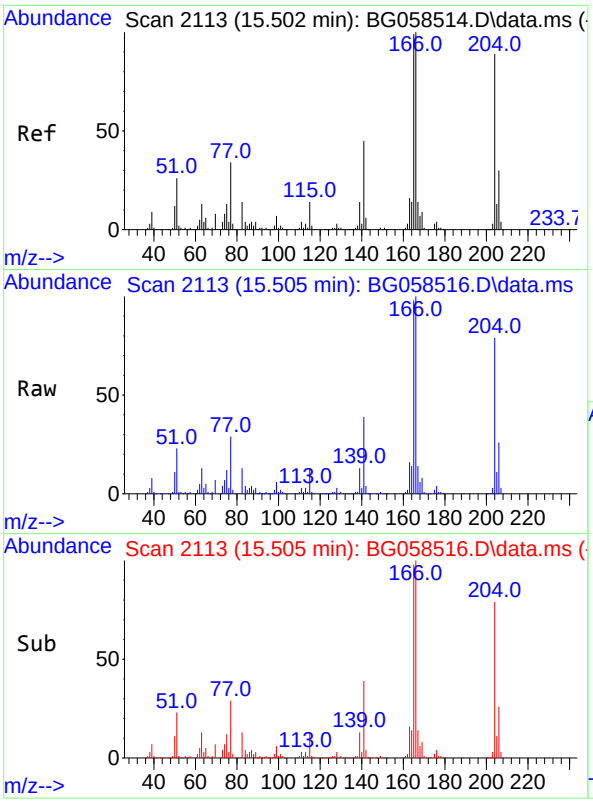


#60
Diethylphthalate
Concen: 57.602 ng
RT: 15.282 min Scan# 2075
Delta R.T. 0.003 min
Lab File: BG058516.D
Acq: 28 Jul 2023 13:27

Tgt Ion:149 Resp: 719381

Ion	Ratio	Lower	Upper
149	100		
177	23.0	18.2	27.4
150	12.8	10.2	15.4

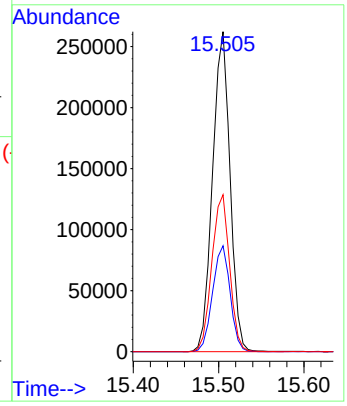




#61
4-Chlorophenyl-phenylether
Concen: 57.998 ng
RT: 15.505 min Scan# 21
Delta R.T. 0.003 min
Lab File: BG058516.D
Acq: 28 Jul 2023 13:27

Tgt Ion:204 Resp: 37321

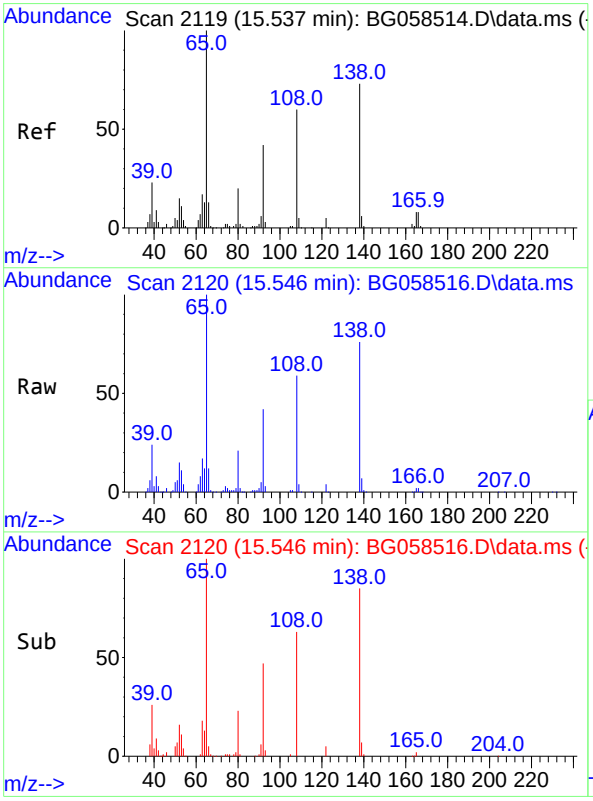
Ion	Ratio	Lower	Upper
204	100		
206	33.1	27.0	40.4
141	49.1	40.8	61.2



Instrument :
BNA_G
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

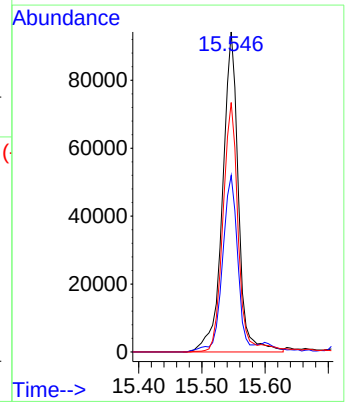
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

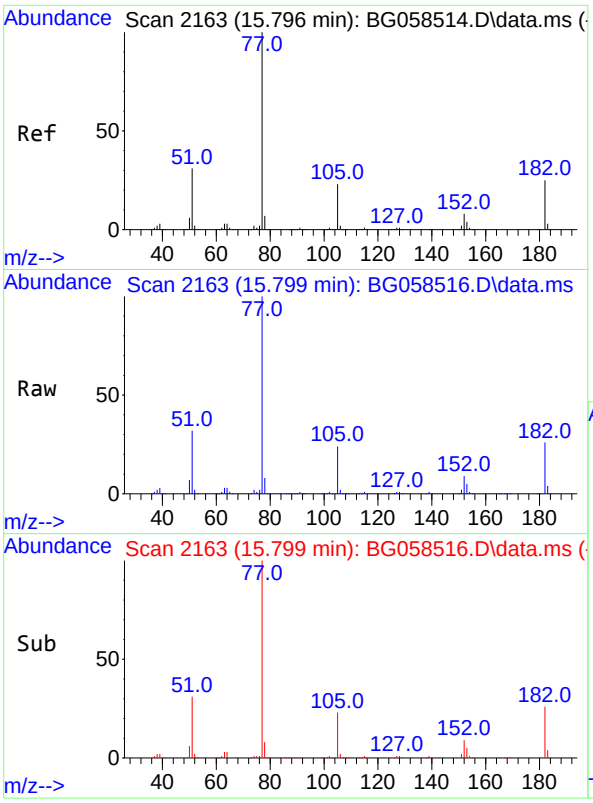


#62
4-Nitroaniline
Concen: 64.966 ng
RT: 15.546 min Scan# 2120
Delta R.T. 0.009 min
Lab File: BG058516.D
Acq: 28 Jul 2023 13:27

Tgt Ion:138 Resp: 164310

Ion	Ratio	Lower	Upper
138	100		
92	55.1	37.3	77.3
108	78.0	62.6	102.6

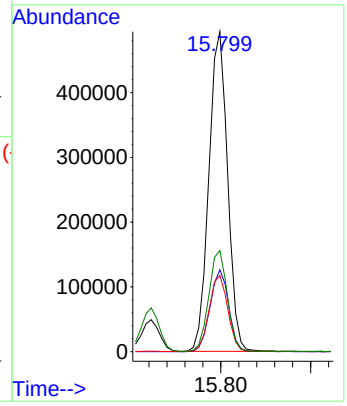




#63
Azobenzene
Concen: 57.944 ng
RT: 15.799 min Scan# 21
Delta R.T. 0.003 min
Lab File: BG058516.D
Acq: 28 Jul 2023 13:27

Tgt Ion: 77 Resp: 71277

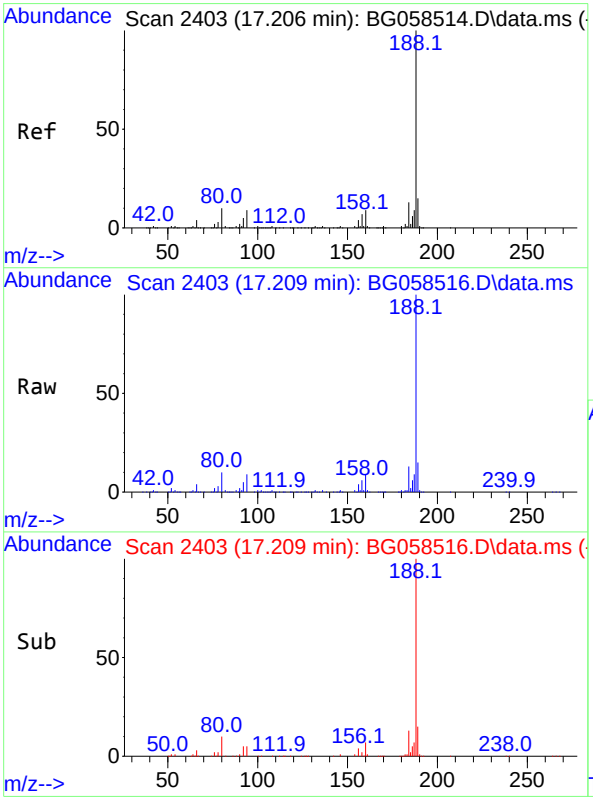
Ion	Ratio	Lower	Upper
77	100		
182	25.6	4.6	44.6
105	23.8	3.3	43.3
51	31.6	10.9	50.9



Instrument :
BNA_G
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

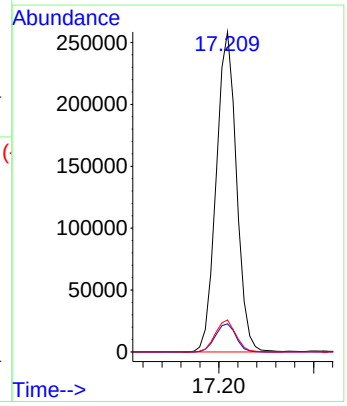
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

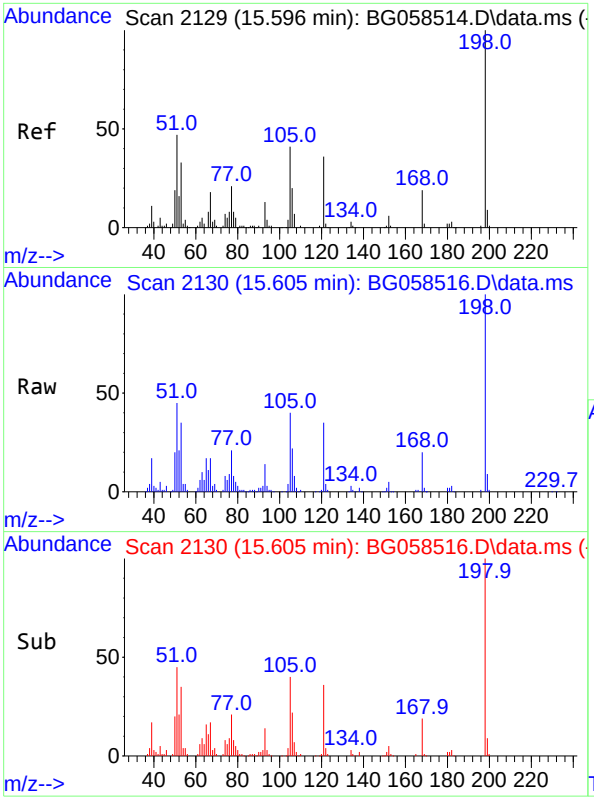


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.209 min Scan# 2403
Delta R.T. 0.003 min
Lab File: BG058516.D
Acq: 28 Jul 2023 13:27

Tgt Ion:188 Resp: 383574

Ion	Ratio	Lower	Upper
188	100		
94	8.8	7.0	10.6
80	10.0	8.1	12.1

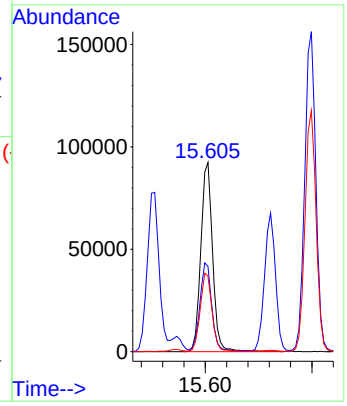




#65
4,6-Dinitro-2-methylphenol
Concen: 67.086 ng
RT: 15.605 min Scan# 21
Delta R.T. 0.009 min
Lab File: BG058516.D
Acq: 28 Jul 2023 13:27

Tgt Ion:198 Resp: 14188

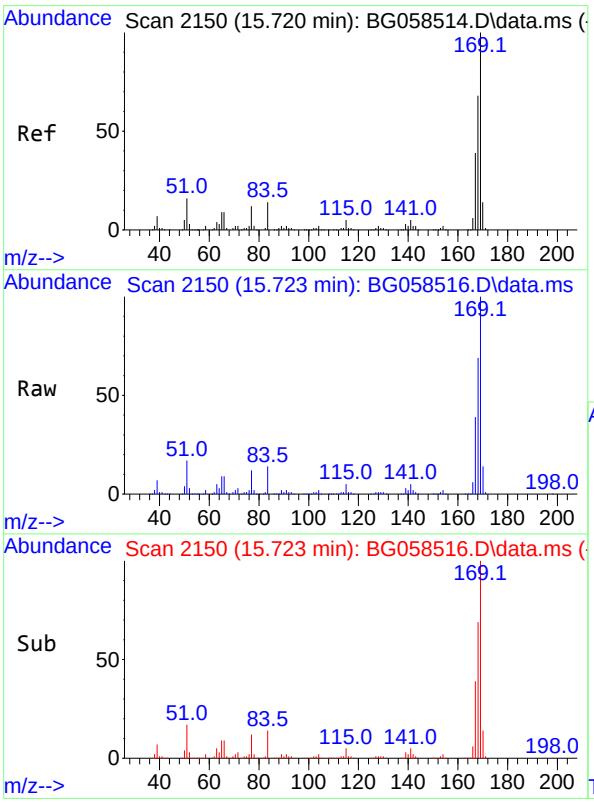
Ion	Ratio	Lower	Upper
198	100		
51	45.0	29.3	69.3
105	39.9	21.0	61.0



Instrument :
BNA_G
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

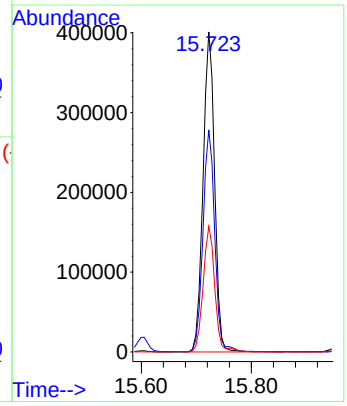
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

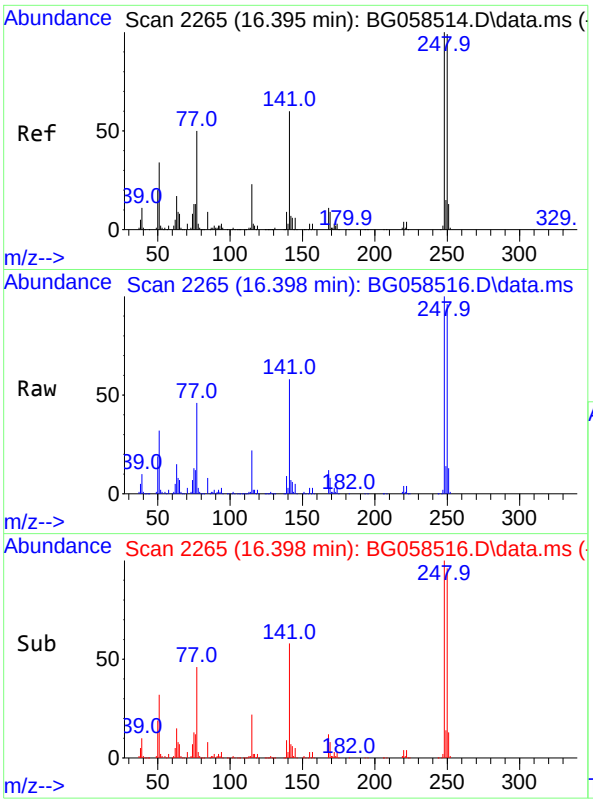


#66
n-Nitrosodiphenylamine
Concen: 58.504 ng
RT: 15.723 min Scan# 2150
Delta R.T. 0.003 min
Lab File: BG058516.D
Acq: 28 Jul 2023 13:27

Tgt Ion:169 Resp: 584069

Ion	Ratio	Lower	Upper
169	100		
168	69.4	54.6	82.0
167	39.2	31.3	46.9

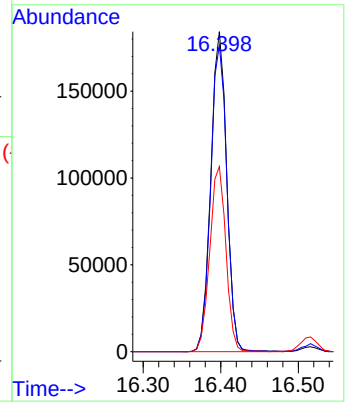




#67
4-Bromophenyl-phenylether
Concen: 60.225 ng
RT: 16.398 min Scan# 2
Delta R.T. 0.003 min
Lab File: BG058516.D
Acq: 28 Jul 2023 13:27

Tgt Ion:248 Resp: 26201

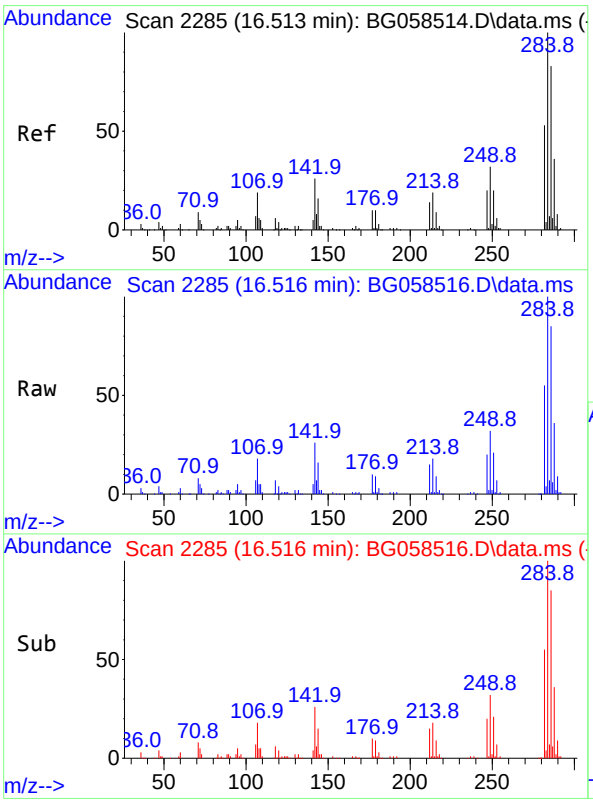
Ion	Ratio	Lower	Upper
248	100		
250	95.8	79.5	119.3
141	57.8	48.2	72.2



Instrument :
BNA_G
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

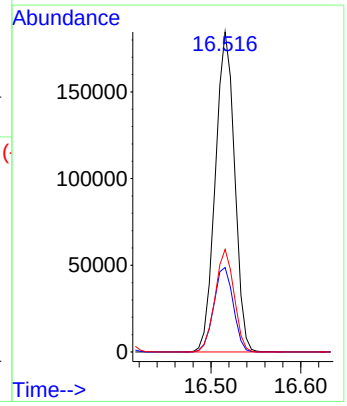
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

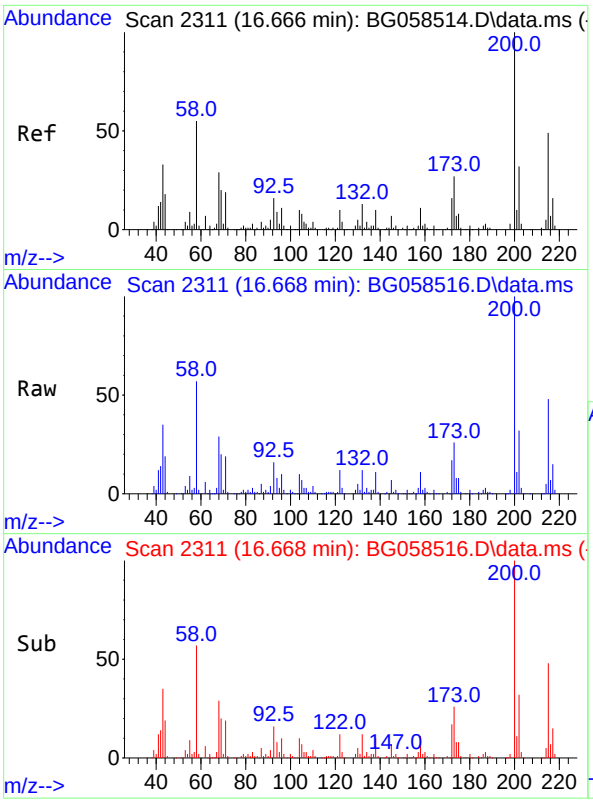


#68
Hexachlorobenzene
Concen: 59.598 ng
RT: 16.516 min Scan# 2285
Delta R.T. 0.003 min
Lab File: BG058516.D
Acq: 28 Jul 2023 13:27

Tgt Ion:284 Resp: 274751

Ion	Ratio	Lower	Upper
284	100		
142	26.4	21.0	31.4
249	32.0	25.5	38.3

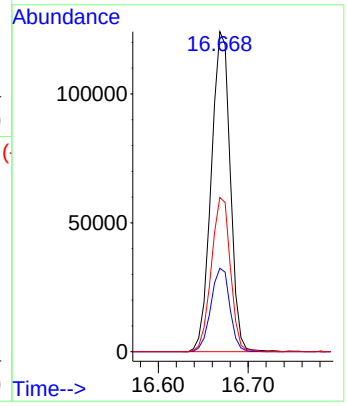




#69
Atrazine
Concen: 54.197 ng
RT: 16.668 min Scan# 2
Delta R.T. 0.003 min
Lab File: BG058516.D
Acq: 28 Jul 2023 13:27

Tgt Ion:200 Resp: 18265

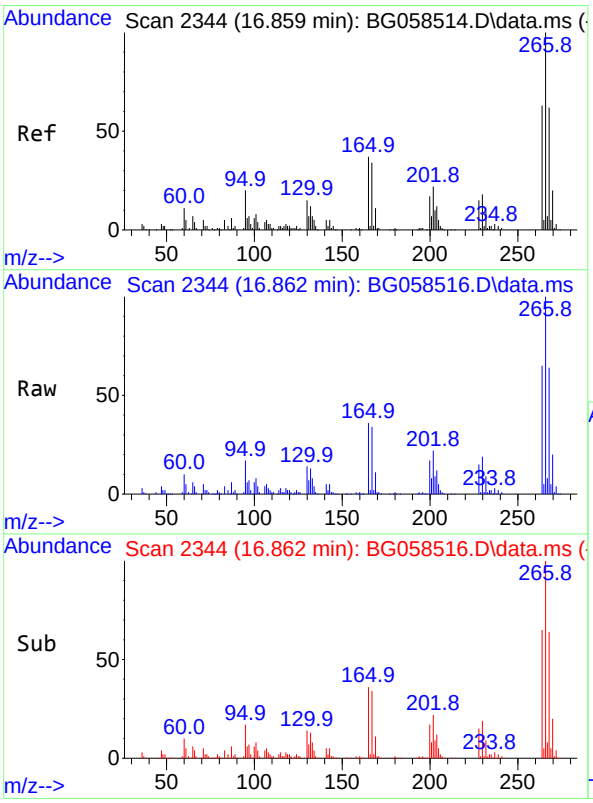
Ion	Ratio	Lower	Upper
200	100		
173	26.0	6.5	46.5
215	48.2	28.9	68.9



Instrument :
BNA_G
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

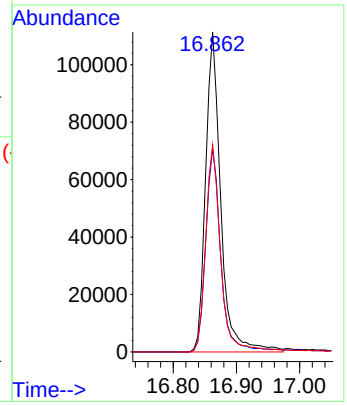
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

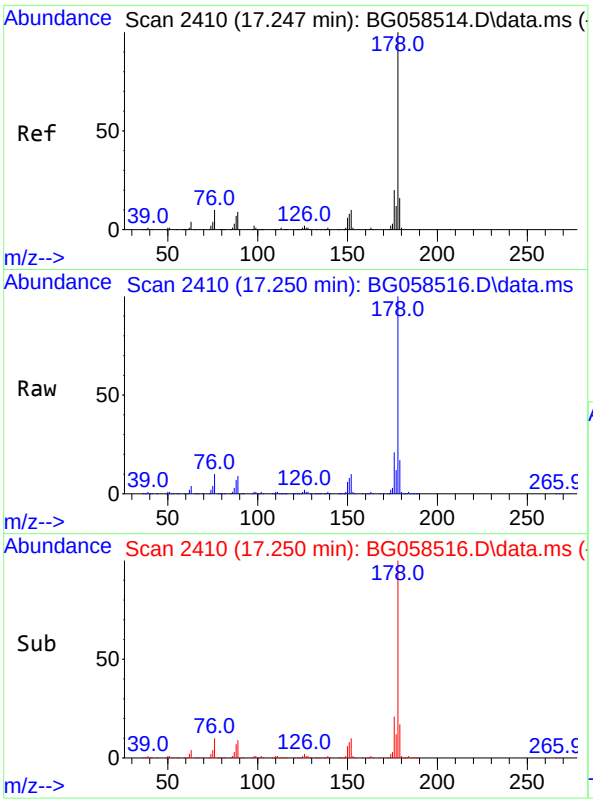


#70
Pentachlorophenol
Concen: 66.760 ng
RT: 16.862 min Scan# 2344
Delta R.T. 0.003 min
Lab File: BG058516.D
Acq: 28 Jul 2023 13:27

Tgt Ion:266 Resp: 185459

Ion	Ratio	Lower	Upper
266	100		
268	63.6	49.9	74.9
264	64.8	50.2	75.4

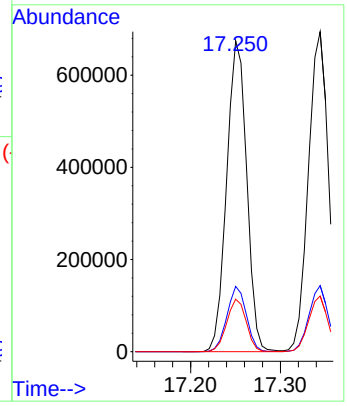




#71
Phenanthrene
Concen: 57.542 ng
RT: 17.250 min Scan# 24
Delta R.T. 0.003 min
Lab File: BG058516.D
Acq: 28 Jul 2023 13:27

Tgt Ion:178 Resp: 104673

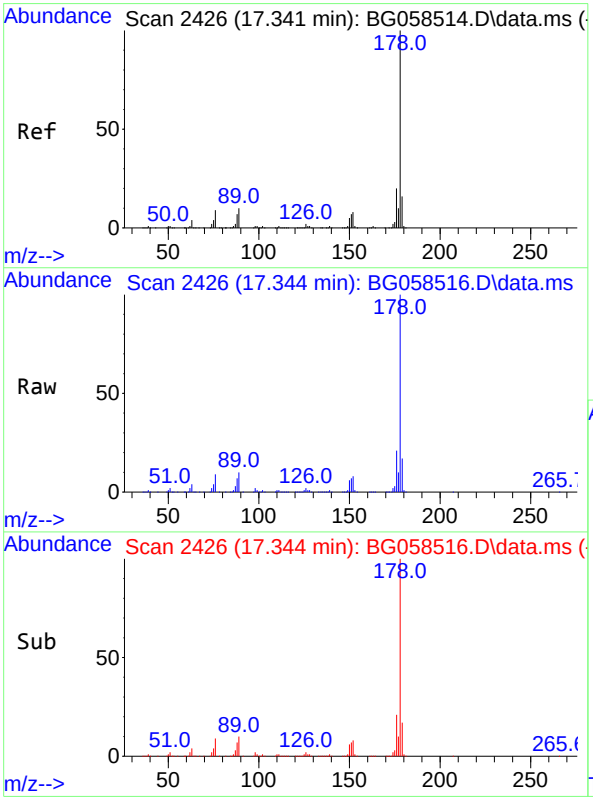
Ion	Ratio	Lower	Upper
178	100		
176	21.0	16.3	24.5
179	16.9	13.1	19.7



Instrument :
BNA_G
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

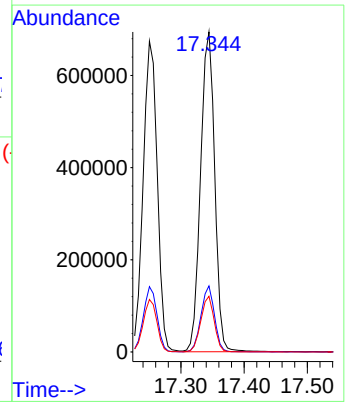
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

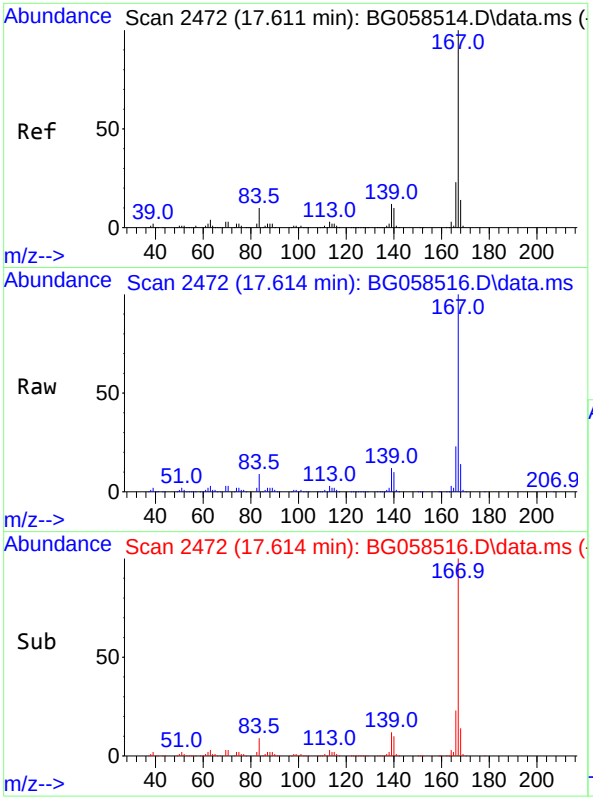


#72
Anthracene
Concen: 57.763 ng
RT: 17.344 min Scan# 2426
Delta R.T. 0.003 min
Lab File: BG058516.D
Acq: 28 Jul 2023 13:27

Tgt Ion:178 Resp: 1078160

Ion	Ratio	Lower	Upper
178	100		
176	20.7	16.0	24.0
179	17.4	12.9	19.3

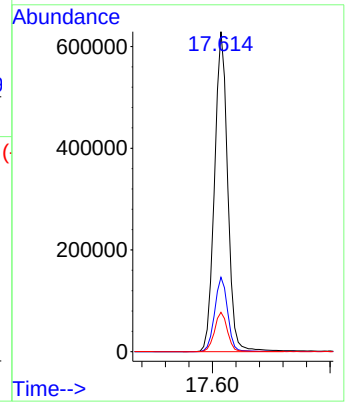




#73
Carbazole
Concen: 59.335 ng
RT: 17.614 min Scan# 24
Delta R.T. 0.003 min
Lab File: BG058516.D
Acq: 28 Jul 2023 13:27

Tgt Ion:167 Resp: 97662

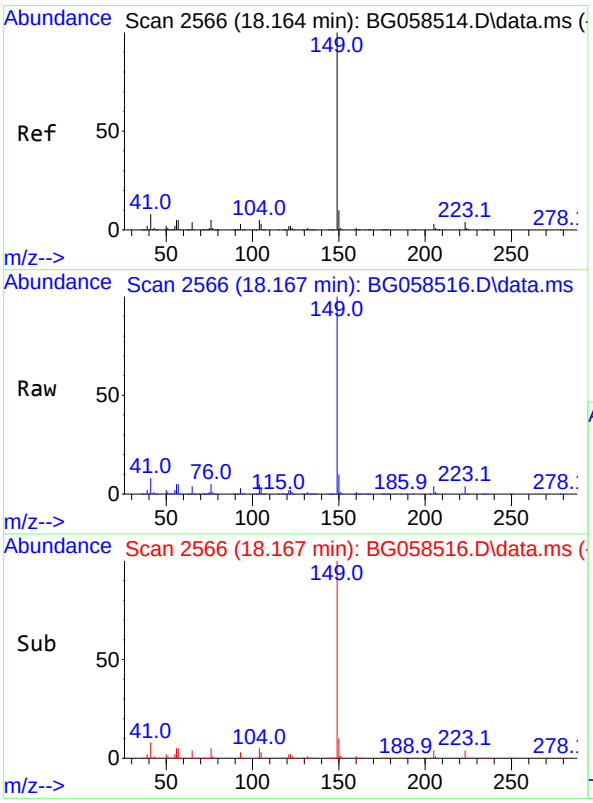
Ion	Ratio	Lower	Upper
167	100		
166	23.3	18.4	27.6
139	12.3	10.0	15.0



Instrument :
BNA_G
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

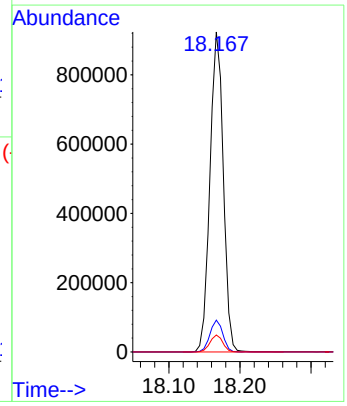
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

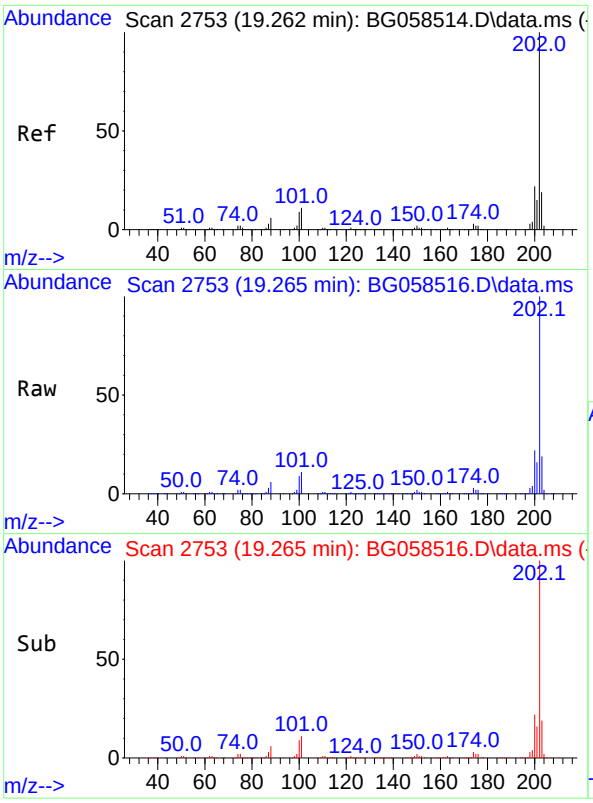


#74
Di-n-butylphthalate
Concen: 58.596 ng
RT: 18.167 min Scan# 2566
Delta R.T. 0.003 min
Lab File: BG058516.D
Acq: 28 Jul 2023 13:27

Tgt Ion:149 Resp: 1208036

Ion	Ratio	Lower	Upper
149	100		
150	10.0	7.8	11.6
104	5.3	4.0	6.0

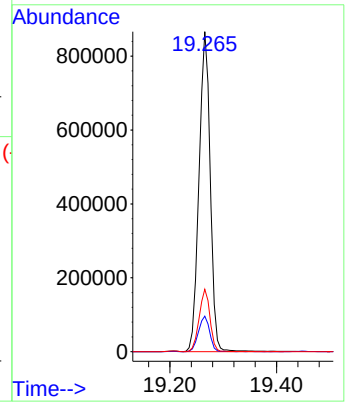




#75
Fluoranthene
Concen: 57.874 ng
RT: 19.265 min Scan# 2
Delta R.T. 0.003 min
Lab File: BG058516.D
Acq: 28 Jul 2023 13:27

Tgt Ion:202 Resp: 126461

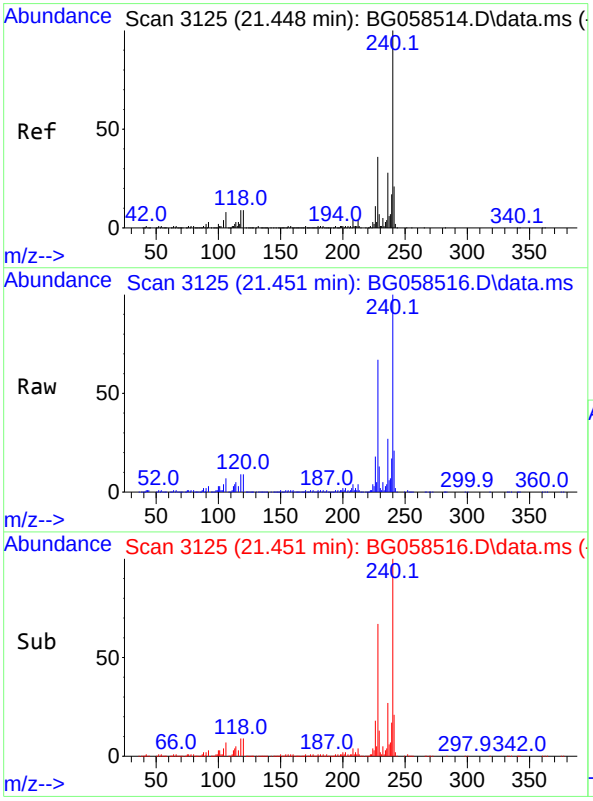
Ion	Ratio	Lower	Upper
202	100		
101	11.1	0.0	31.4
203	19.5	0.0	39.0



Instrument :
BNA_G
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

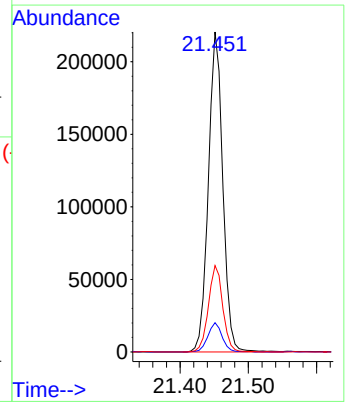
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

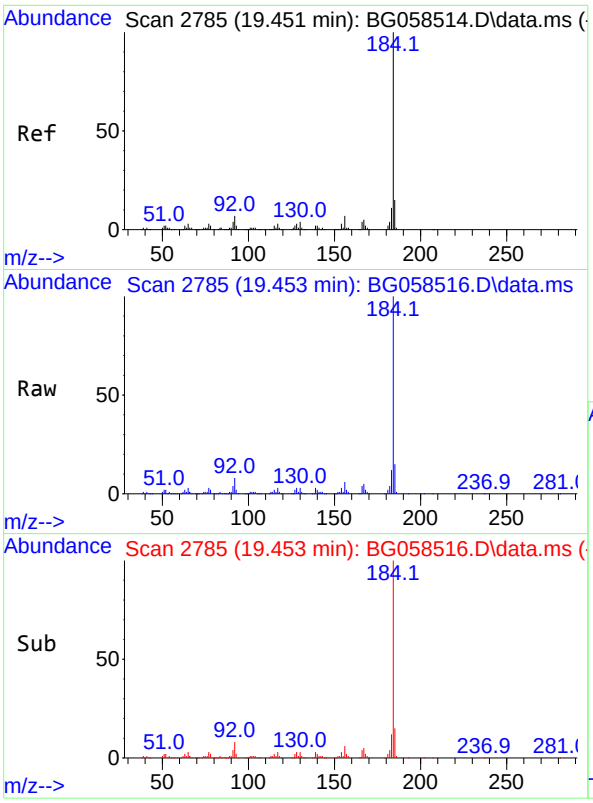


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.451 min Scan# 3125
Delta R.T. 0.003 min
Lab File: BG058516.D
Acq: 28 Jul 2023 13:27

Tgt Ion:240 Resp: 324888

Ion	Ratio	Lower	Upper
240	100		
120	9.1	7.4	11.0
236	27.0	22.2	33.4

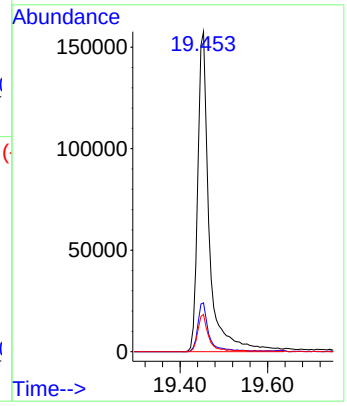




#77
Benzidine
Concen: 58.955 ng
RT: 19.453 min Scan# 2
Delta R.T. 0.003 min
Lab File: BG058516.D
Acq: 28 Jul 2023 13:27

Tgt Ion:184 Resp: 29044

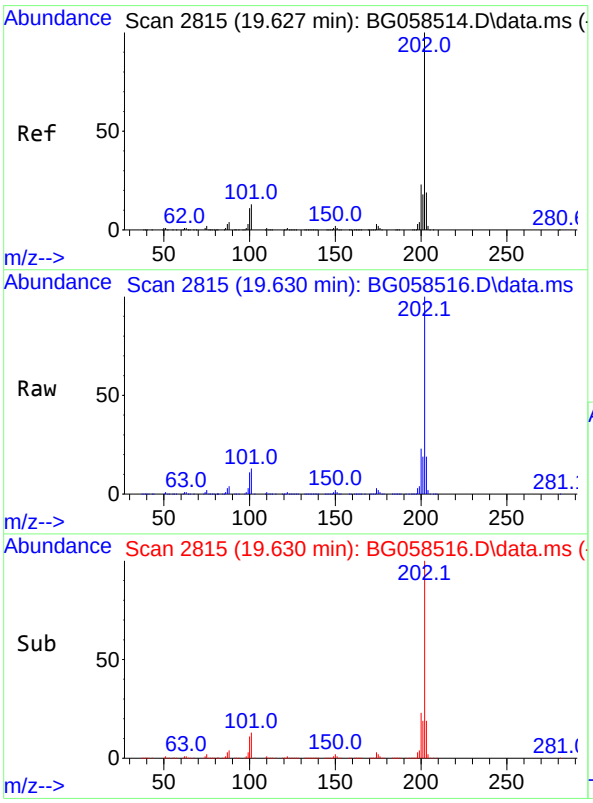
Ion	Ratio	Lower	Upper
184	100		
185	15.3	11.9	17.9
183	11.6	8.7	13.1



Instrument :
BNA_G
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

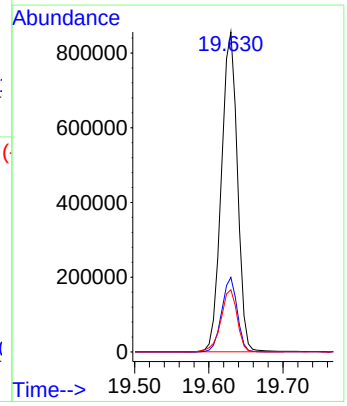
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

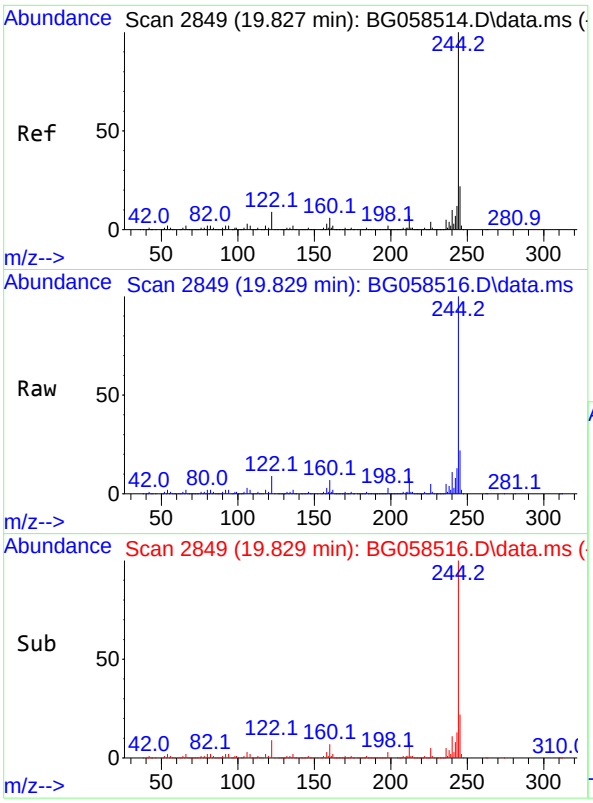


#78
Pyrene
Concen: 58.197 ng
RT: 19.630 min Scan# 2815
Delta R.T. 0.003 min
Lab File: BG058516.D
Acq: 28 Jul 2023 13:27

Tgt Ion:202 Resp: 1286752

Ion	Ratio	Lower	Upper
202	100		
200	23.3	18.2	27.2
203	19.5	15.1	22.7

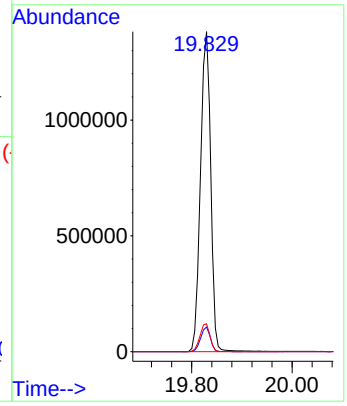




#79
Terphenyl-d14
Concen: 112.984 ng
RT: 19.829 min Scan# 2
Delta R.T. 0.003 min
Lab File: BG058516.D
Acq: 28 Jul 2023 13:27

Tgt Ion:244 Resp: 195195

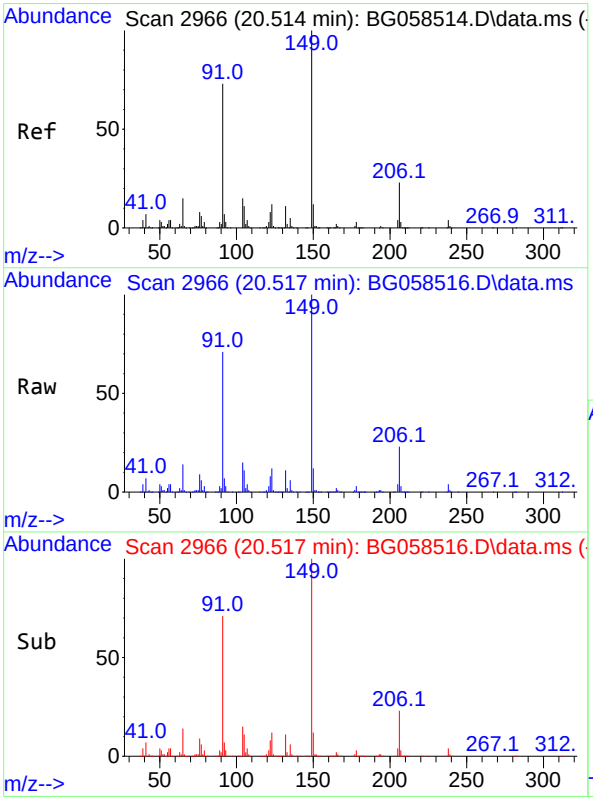
Ion	Ratio	Lower	Upper
244	100		
212	7.7	5.9	8.9
122	8.7	6.8	10.2



Instrument :
BNA_G
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

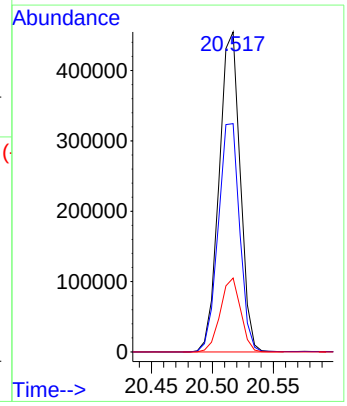
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

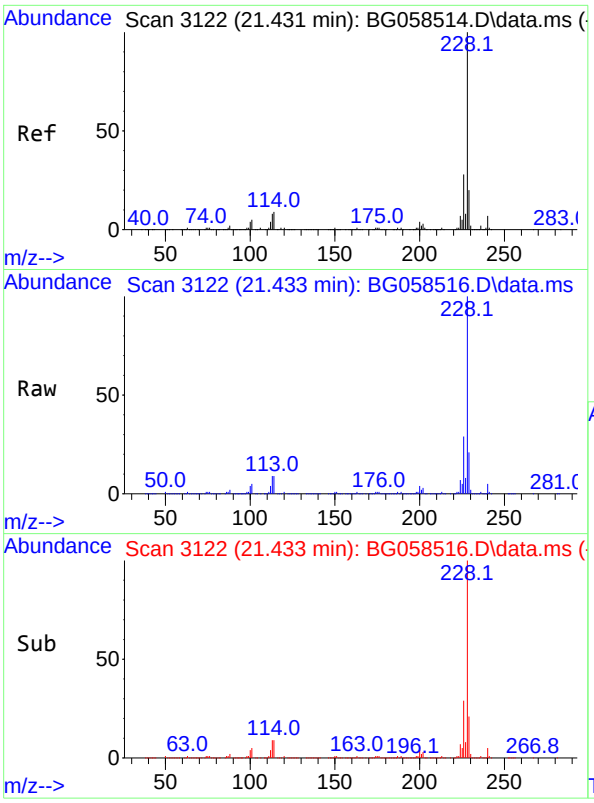


#80
Butylbenzylphthalate
Concen: 60.199 ng
RT: 20.517 min Scan# 2966
Delta R.T. 0.003 min
Lab File: BG058516.D
Acq: 28 Jul 2023 13:27

Tgt Ion:149 Resp: 546736

Ion	Ratio	Lower	Upper
149	100		
91	71.4	58.4	87.6
206	23.1	18.3	27.5

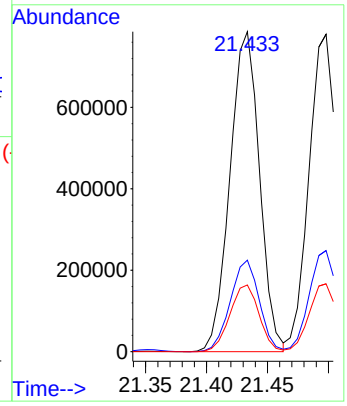




#81
Benzo(a)anthracene
Concen: 59.375 ng
RT: 21.433 min Scan# 3
Delta R.T. 0.003 min
Lab File: BG058516.D
Acq: 28 Jul 2023 13:27

Tgt Ion:228 Resp: 132754

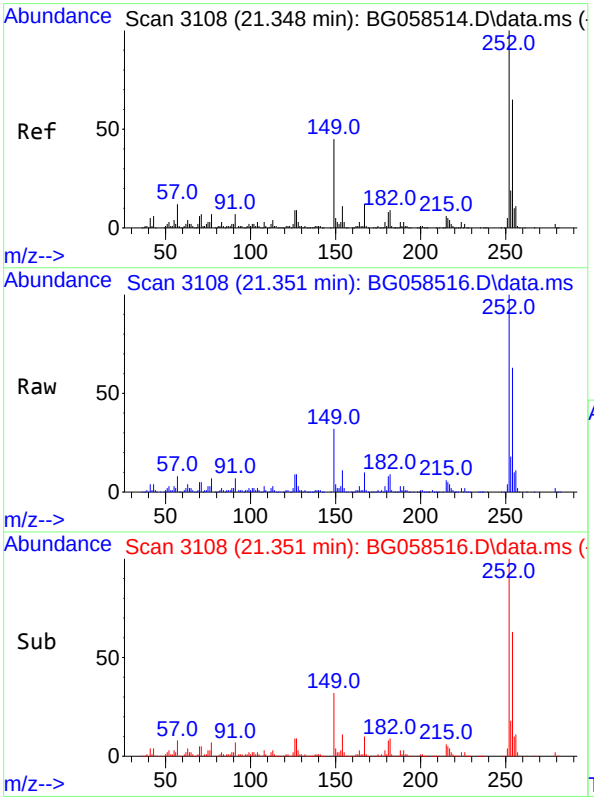
Ion	Ratio	Lower	Upper
228	100		
226	28.6	22.6	33.8
229	20.9	16.3	24.5



Instrument :
BNA_G
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

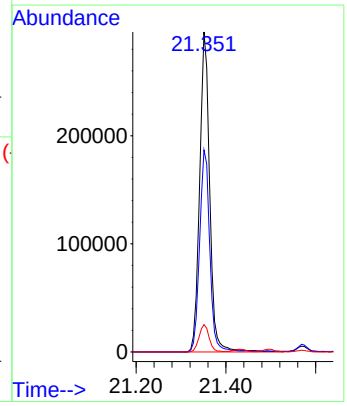
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

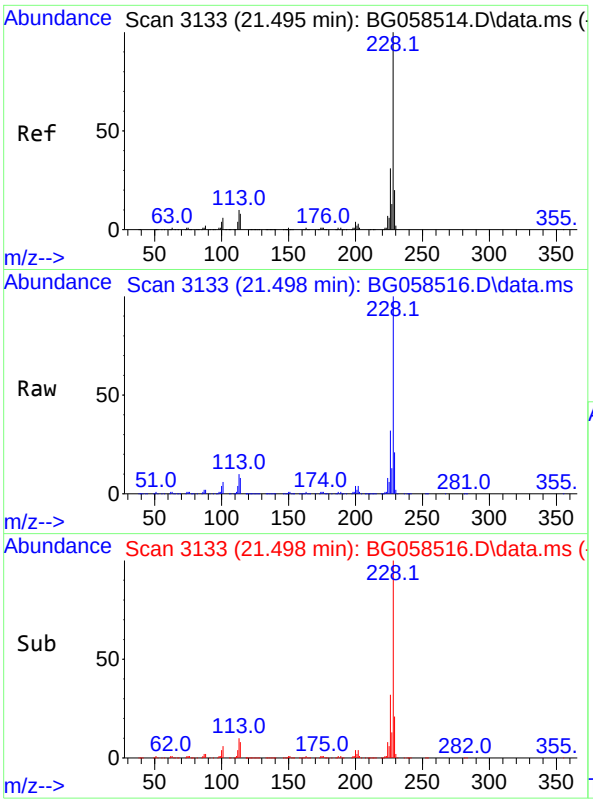


#82
3,3'-Dichlorobenzidine
Concen: 60.866 ng
RT: 21.351 min Scan# 3108
Delta R.T. 0.003 min
Lab File: BG058516.D
Acq: 28 Jul 2023 13:27

Tgt Ion:252 Resp: 460119

Ion	Ratio	Lower	Upper
252	100		
254	63.1	52.2	78.4
126	8.5	7.2	10.8

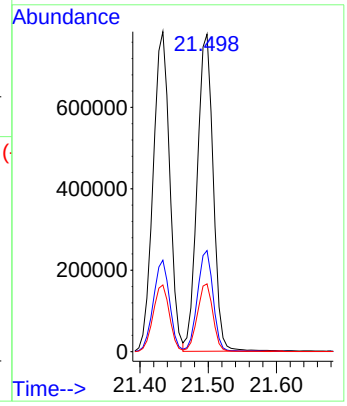




#83
Chrysene
Concen: 58.719 ng
RT: 21.498 min Scan# 3
Delta R.T. 0.003 min
Lab File: BG058516.D
Acq: 28 Jul 2023 13:27

Tgt Ion:228 Resp: 125876

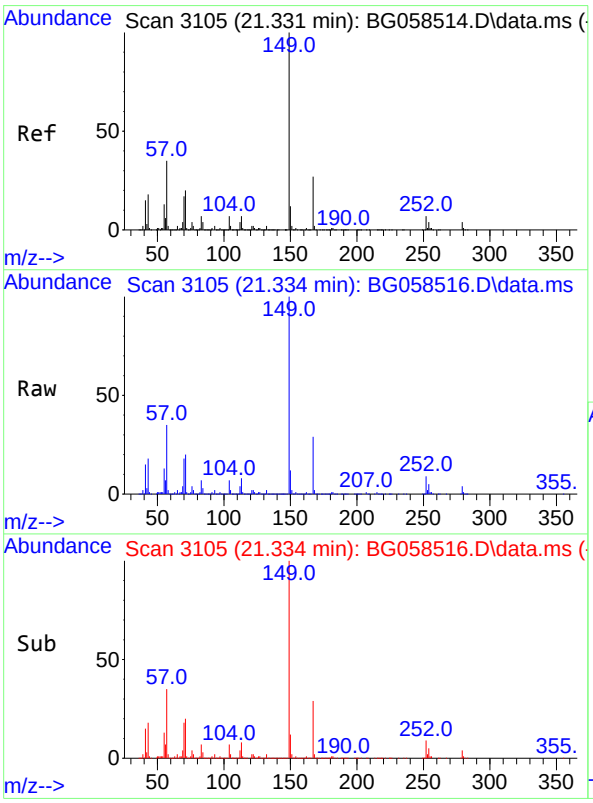
Ion	Ratio	Lower	Upper
228	100		
226	31.9	25.0	37.6
229	21.4	16.3	24.5



Instrument :
BNA_G
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

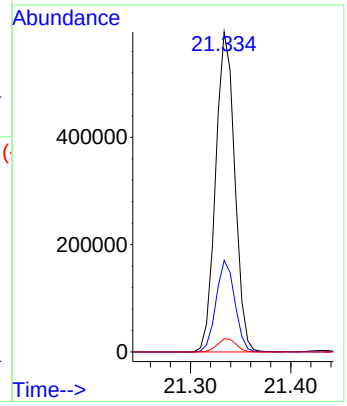
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

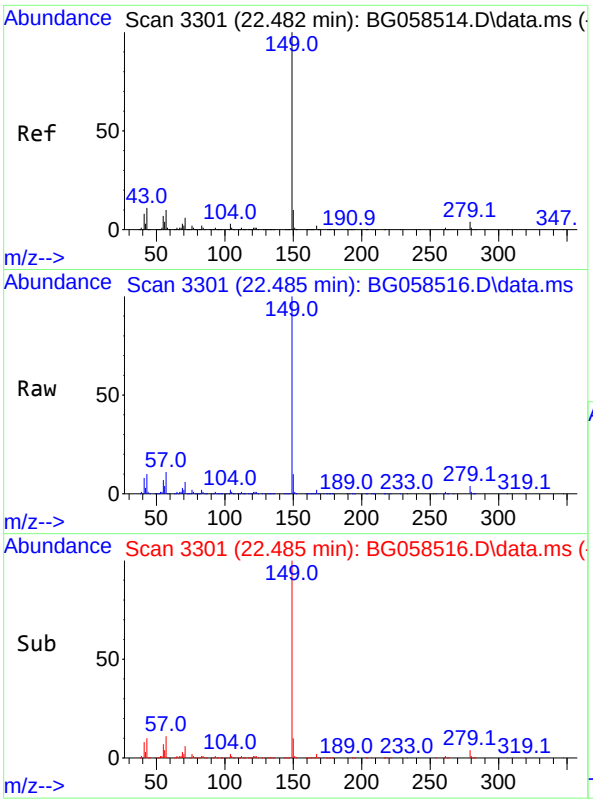


#84
Bis(2-ethylhexyl)phthalate
Concen: 59.420 ng
RT: 21.334 min Scan# 3105
Delta R.T. 0.003 min
Lab File: BG058516.D
Acq: 28 Jul 2023 13:27

Tgt Ion:149 Resp: 788612

Ion	Ratio	Lower	Upper
149	100		
167	28.6	21.8	32.8
279	4.1	2.9	4.3

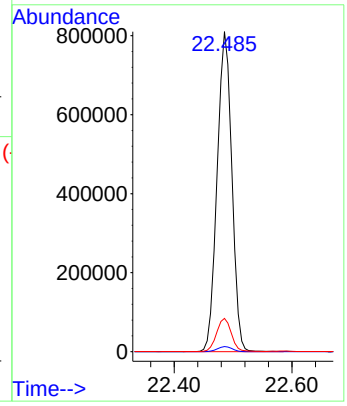




#85
Di-n-octyl phthalate
Concen: 60.260 ng
RT: 22.485 min Scan# 3
Delta R.T. 0.003 min
Lab File: BG058516.D
Acq: 28 Jul 2023 13:27

Tgt Ion:149 Resp: 140608

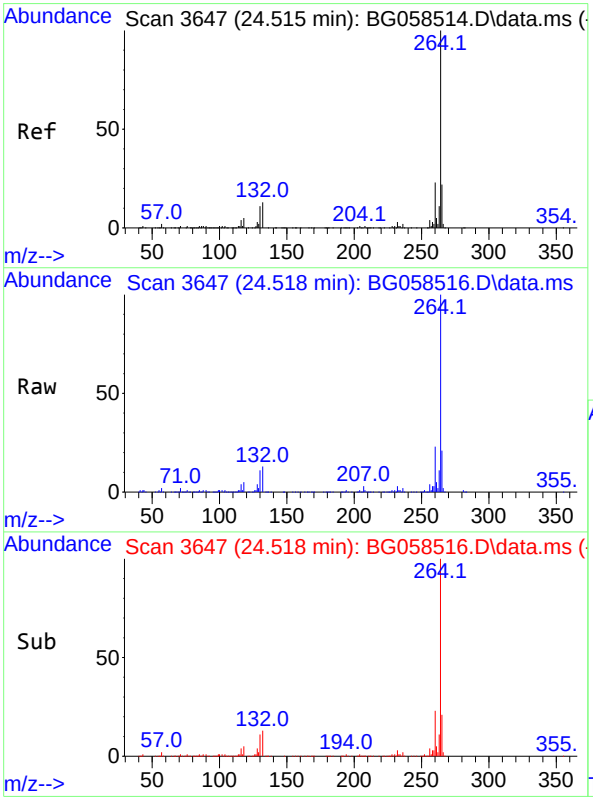
Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	10.4	8.2	12.2



Instrument :
BNA_G
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

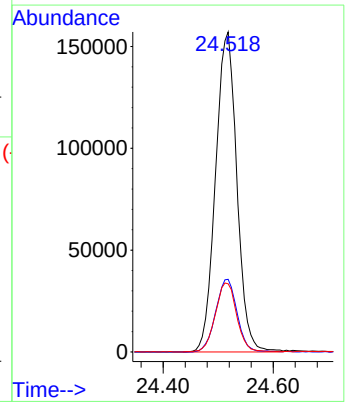
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

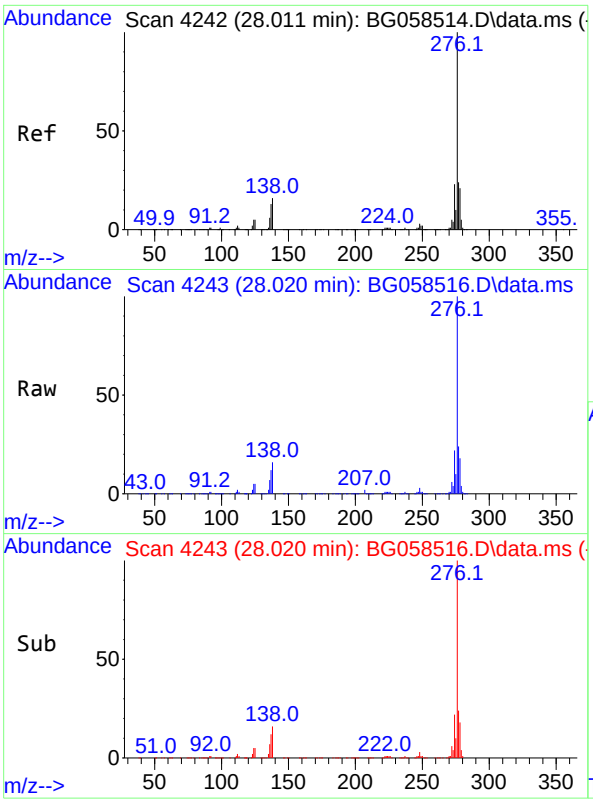


#86
Perylene-d12
Concen: 20.000 ng
RT: 24.518 min Scan# 3647
Delta R.T. 0.003 min
Lab File: BG058516.D
Acq: 28 Jul 2023 13:27

Tgt Ion:264 Resp: 422617

Ion	Ratio	Lower	Upper
264	100		
260	22.7	18.4	27.6
265	21.3	17.9	26.9

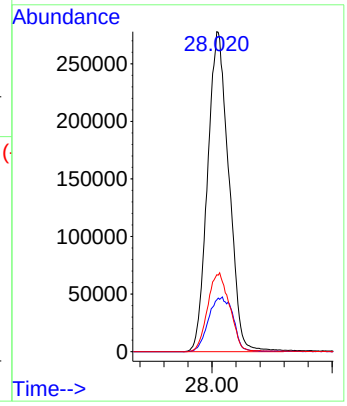




#87
Indeno(1,2,3-cd)pyrene
Concen: 60.671 ng
RT: 28.020 min Scan# 4
Delta R.T. 0.009 min
Lab File: BG058516.D
Acq: 28 Jul 2023 13:27

Tgt Ion:276 Resp: 170578

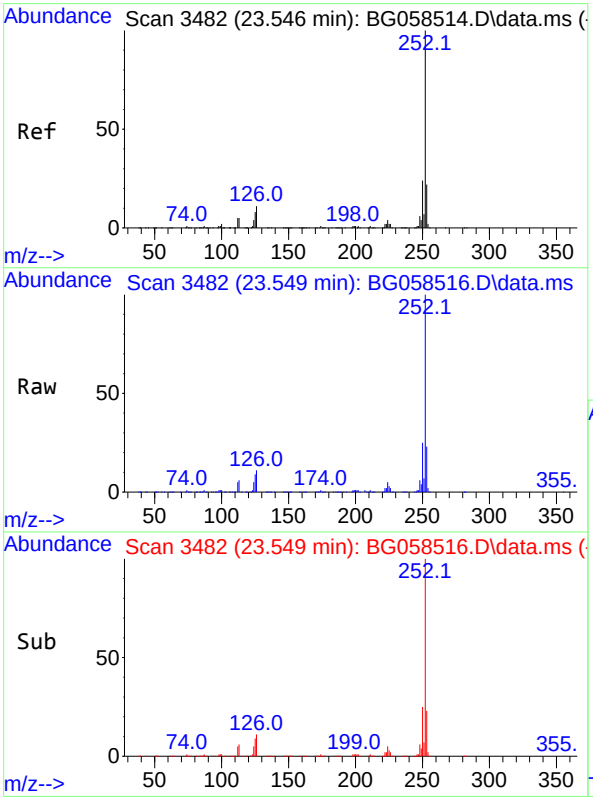
Ion	Ratio	Lower	Upper
276	100		
138	0.0	16.0	24.0#
277	0.0	20.4	30.6#



Instrument :
BNA_G
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

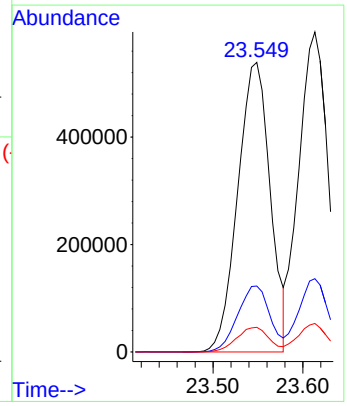
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

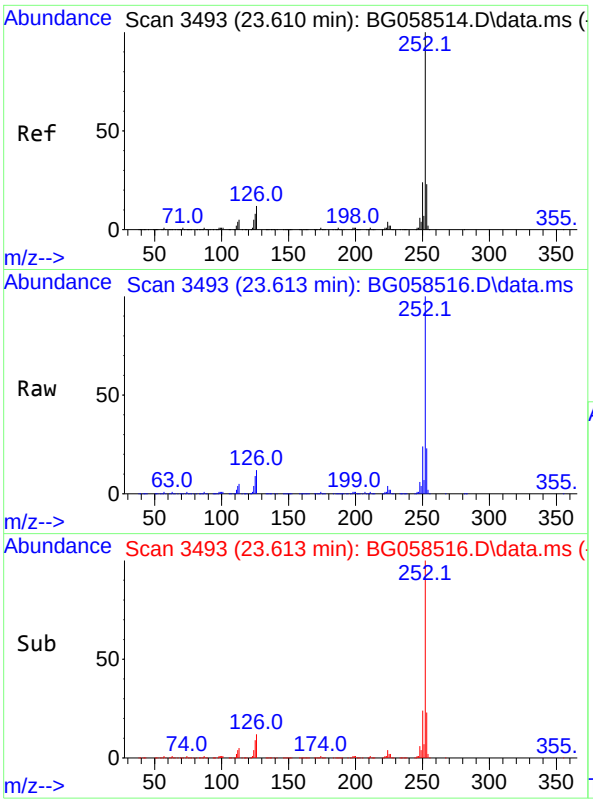


#88
Benzo(b)fluoranthene
Concen: 59.033 ng
RT: 23.549 min Scan# 3482
Delta R.T. 0.003 min
Lab File: BG058516.D
Acq: 28 Jul 2023 13:27

Tgt Ion:252 Resp: 1353132

Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.8	26.8
125	8.5	6.6	9.8

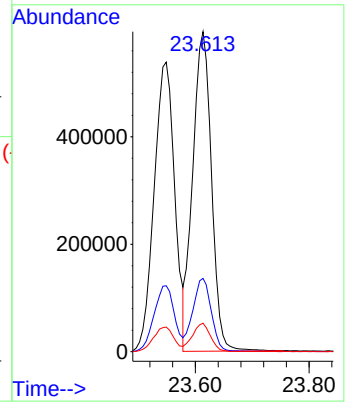




#89
Benzo(k)fluoranthene
Concen: 59.203 ng
RT: 23.613 min Scan# 34
Delta R.T. 0.003 min
Lab File: BG058516.D
Acq: 28 Jul 2023 13:27

Tgt Ion:252 Resp: 136327

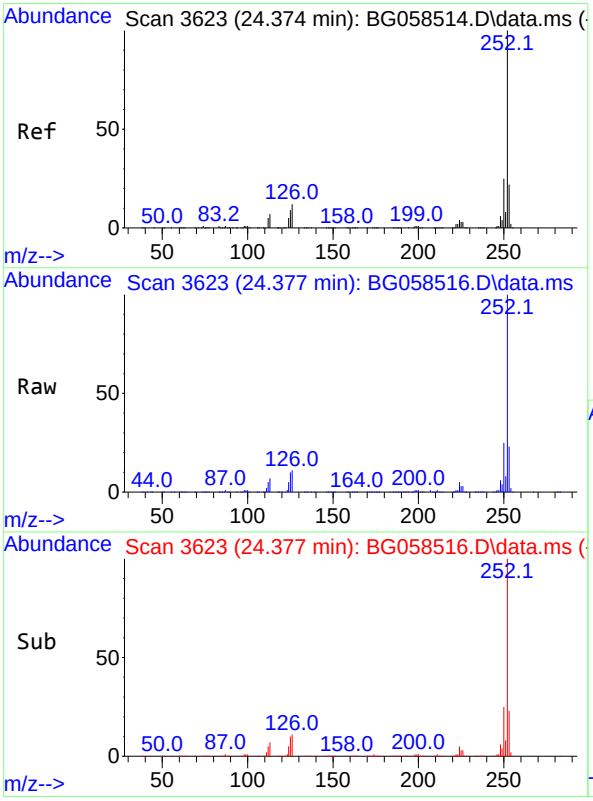
Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.9	26.9
125	8.9	6.6	10.0



Instrument :
BNA_G
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

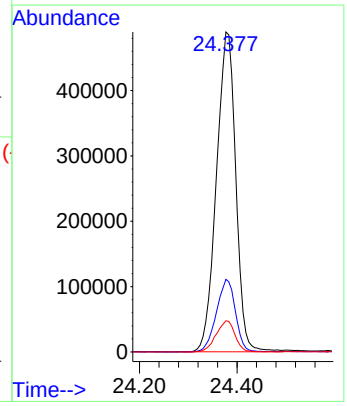
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

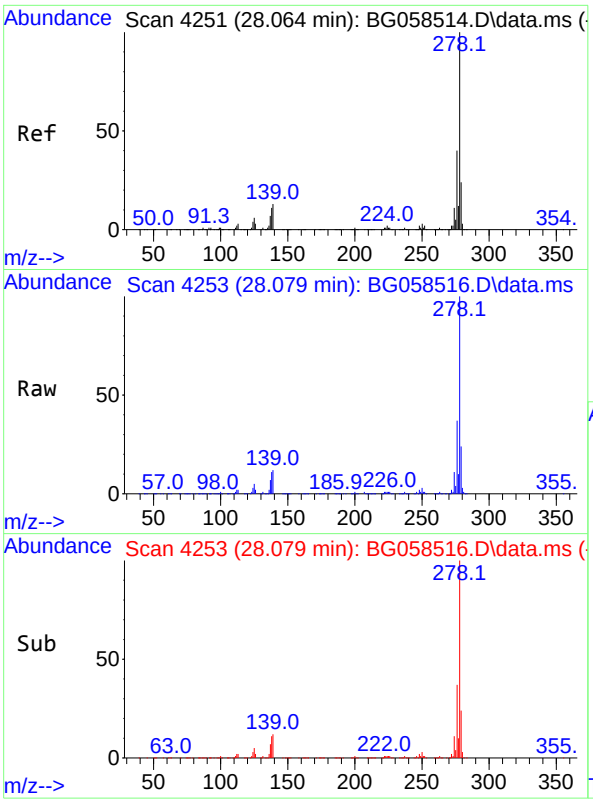


#90
Benzo(a)pyrene
Concen: 59.991 ng
RT: 24.377 min Scan# 3623
Delta R.T. 0.003 min
Lab File: BG058516.D
Acq: 28 Jul 2023 13:27

Tgt Ion:252 Resp: 1350429

Ion	Ratio	Lower	Upper
252	100		
253	22.7	17.5	26.3
125	9.8	7.4	11.2

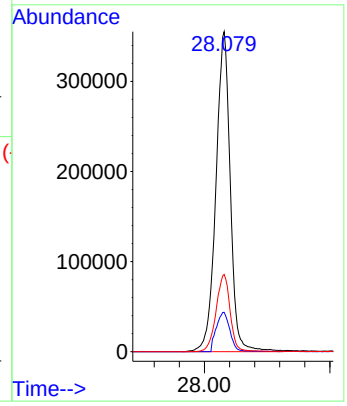




#91
Dibenzo(a,h)anthracene
Concen: 60.757 ng
RT: 28.079 min Scan# 4
Delta R.T. 0.015 min
Lab File: BG058516.D
Acq: 28 Jul 2023 13:27

Tgt Ion:278 Resp: 141244

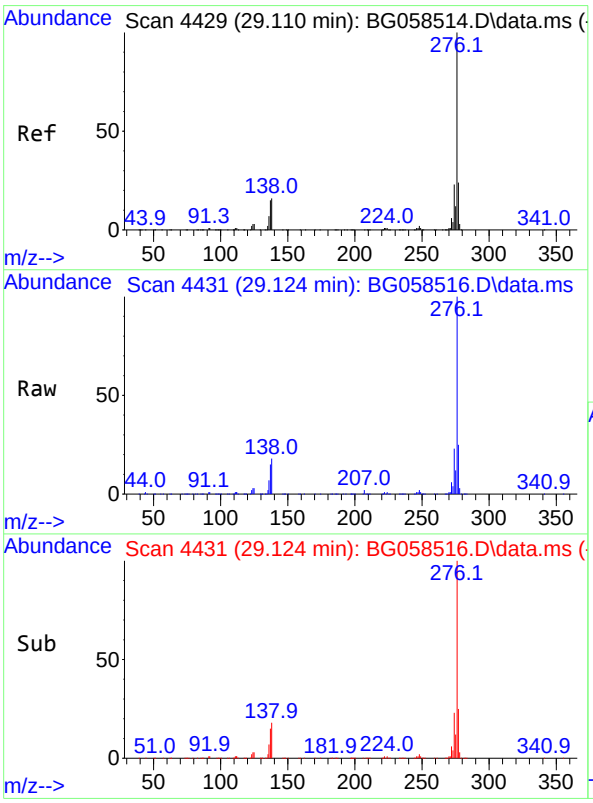
Ion	Ratio	Lower	Upper
278	100		
139	12.3	10.4	15.6
279	24.1	19.0	28.6



Instrument :
BNA_G
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

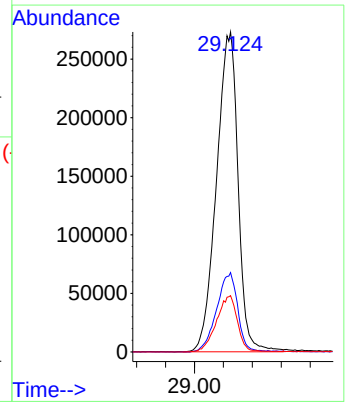
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023



#92
Benzo(g,h,i)perylene
Concen: 60.527 ng
RT: 29.124 min Scan# 4431
Delta R.T. 0.015 min
Lab File: BG058516.D
Acq: 28 Jul 2023 13:27

Tgt Ion:276 Resp: 1410975

Ion	Ratio	Lower	Upper
276	100		
277	24.8	18.9	28.3
138	17.6	13.0	19.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG072823\
Data File : BG058517.D
Acq On : 28 Jul 2023 14:09
Operator : MA/JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 28 16:58:38 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 28 16:53:40 2023
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.815	152	65766	20.000	ng		0.00
21) Naphthalene-d8	10.617	136	255400	20.000	ng		0.00
39) Acenaphthene-d10	14.466	164	171964	20.000	ng		0.00
64) Phenanthrene-d10	17.210	188	399841	20.000	ng		0.00
76) Chrysene-d12	21.452	240	331544	20.000	ng		0.00
86) Perylene-d12	24.519	264	435415	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.388	112	609931	141.753	ng		0.00
7) Phenol-d6	6.998	99	862443	144.047	ng		0.02
23) Nitrobenzene-d5	8.990	82	795322	152.977	ng		0.00
42) 2,4,6-Tribromophenol	15.958	330	420917	149.335	ng		0.00
45) 2-Fluorobiphenyl	13.085	172	1600047	139.437	ng		0.00
79) Terphenyl-d14	19.830	244	2405763	136.456	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.273	88	146345	70.190	ng		99
3) Pyridine	3.672	79	415655	73.121	ng		98
4) n-Nitrosodimethylamine	3.590	42	174276	72.358	ng		99
6) Aniline	7.151	93	546131	74.087	ng		97
8) 2-Chlorophenol	7.386	128	305212	72.306	ng		99
10) Phenol	7.022	94	422370	72.217	ng		100
11) bis(2-Chloroethyl)ether	7.245	93	330300	71.636	ng		97
12) 1,3-Dichlorobenzene	7.703	146	319850	70.961	ng		98
13) 1,4-Dichlorobenzene	7.850	146	319554	70.607	ng		96
14) 1,2-Dichlorobenzene	8.173	146	303886	70.230	ng		99
15) Benzyl Alcohol	8.061	79	309303	81.461	ng		99
16) 2,2'-oxybis(1-Chloropr...	8.344	45	546423	72.956	ng		100
17) 2-Methylphenol	8.267	107	312904	73.171	ng		99
18) Hexachloroethane	8.896	117	118255	71.888	ng		97
19) n-Nitroso-di-n-propyla...	8.631	70	278433	71.996	ng		99
20) 3+4-Methylphenols	8.602	107	430098	74.354	ng		98
22) Acetophenone	8.643	105	512838	74.991	ng	#	99
24) Nitrobenzene	9.031	77	404689	76.567	ng		99
25) Isophorone	9.554	82	818360	76.183	ng		99
26) 2-Nitrophenol	9.730	139	185451	80.605	ng		99
27) 2,4-Dimethylphenol	9.795	122	298126	78.119	ng		99
28) bis(2-Chloroethoxy)met...	10.030	93	445061	76.133	ng		98
29) 2,4-Dichlorophenol	10.271	162	313595	79.142	ng		99
30) 1,2,4-Trichlorobenzene	10.482	180	343909	75.259	ng		99
31) Naphthalene	10.670	128	980736	72.857	ng		99
32) Benzoic acid	10.006	122	237947	78.706	ng		99
33) 4-Chloroaniline	10.782	127	454439	79.903	ng		99
34) Hexachlorobutadiene	10.946	225	225208	76.527	ng		98
35) Caprolactam	11.599	113	112997m	77.224	ng		
36) 4-Chloro-3-methylphenol	11.922	107	376966	76.906	ng		99
37) 2-Methylnaphthalene	12.280	142	711277	73.869	ng		98
38) 1-Methylnaphthalene	12.503	142	663399	72.478	ng		99
40) 1,2,4,5-Tetrachloroben...	12.650	216	397160	75.227	ng		99
41) Hexachlorocyclopentadiene	12.627	237	198505	80.870	ng		96
43) 2,4,6-Trichlorophenol	12.897	196	281416	77.498	ng		98
44) 2,4,5-Trichlorophenol	12.973	196	329592	77.059	ng		97

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG072823\
Data File : BG058517.D
Acq On : 28 Jul 2023 14:09
Operator : MA/JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 28 16:58:38 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 28 16:53:40 2023
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) 1,1'-Biphenyl	13.297	154	865502	73.288	ng	99
47) 2-Chloronaphthalene	13.344	162	685458	74.441	ng	98
48) 2-Nitroaniline	13.549	65	282978	80.514	ng	97
49) Acenaphthylene	14.190	152	1110706	72.047	ng	99
50) Dimethylphthalate	13.931	163	936819	72.538	ng	99
51) 2,6-Dinitrotoluene	14.049	165	218333	77.047	ng	98
52) Acenaphthene	14.530	154	647903	72.734	ng	99
53) 3-Nitroaniline	14.383	138	227564	80.265	ng	100
54) 2,4-Dinitrophenol	14.589	184	127397	79.774	ng	98
55) Dibenzofuran	14.865	168	1084299	70.839	ng	99
56) 4-Nitrophenol	14.695	139	164636	78.301	ng	98
57) 2,4-Dinitrotoluene	14.842	165	301931	76.854	ng	99
58) Fluorene	15.517	166	844340	69.438	ng	99
59) 2,3,4,6-Tetrachlorophenol	15.094	232	280518	76.860	ng	98
60) Diethylphthalate	15.288	149	932047	70.840	ng	98
61) 4-Chlorophenyl-phenyle...	15.506	204	491182	72.455	ng	97
62) 4-Nitroaniline	15.553	138	218743	82.096	ng	98
63) Azobenzene	15.799	77	928700	71.663	ng	97
65) 4,6-Dinitro-2-methylph...	15.606	198	189948	86.157	ng	99
66) n-Nitrosodiphenylamine	15.729	169	768679	73.864	ng	99
67) 4-Bromophenyl-phenylether	16.399	248	347605	76.649	ng	97
68) Hexachlorobenzene	16.516	284	361217	75.166	ng	99
69) Atrazine	16.675	200	241816	68.833	ng	100
70) Pentachlorophenol	16.863	266	249812	86.267	ng	98
71) Phenanthrene	17.257	178	1339578	70.645	ng	98
72) Anthracene	17.345	178	1370976	70.463	ng	98
73) Carbazole	17.615	167	1240073	72.276	ng	99
74) Di-n-butylphthalate	18.167	149	1524191	70.924	ng	99
75) Fluoranthene	19.266	202	1593380	69.954	ng	98
77) Benzidine	19.448	184	416449	82.833	ng	97
78) Pyrene	19.630	202	1617096	71.669	ng	98
80) Butylbenzylphthalate	20.517	149	696732	75.175	ng	98
81) Benzo(a)anthracene	21.434	228	1680272	73.643	ng	97
82) 3,3'-Dichlorobenzidine	21.352	252	588200	76.246	ng	100
83) Chrysene	21.499	228	1606732	73.446	ng	98
84) Bis(2-ethylhexyl)phtha...	21.334	149	989050	73.026	ng	97
85) Di-n-octyl phthalate	22.486	149	1770513	74.355	ng	99
87) Indeno(1,2,3-cd)pyrene	28.032	276	2214422	76.447	ng	99
88) Benzo(b)fluoranthene	23.549	252	1729992	73.255	ng	98
89) Benzo(k)fluoranthene	23.620	252	1753689	73.919	ng	98
90) Benzo(a)pyrene	24.384	252	1748912	75.409	ng	99
91) Dibenzo(a,h)anthracene	28.091	278	1824567	76.178	ng	98
92) Benzo(g,h,i)perylene	29.137	276	1843565	76.760	ng	98

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

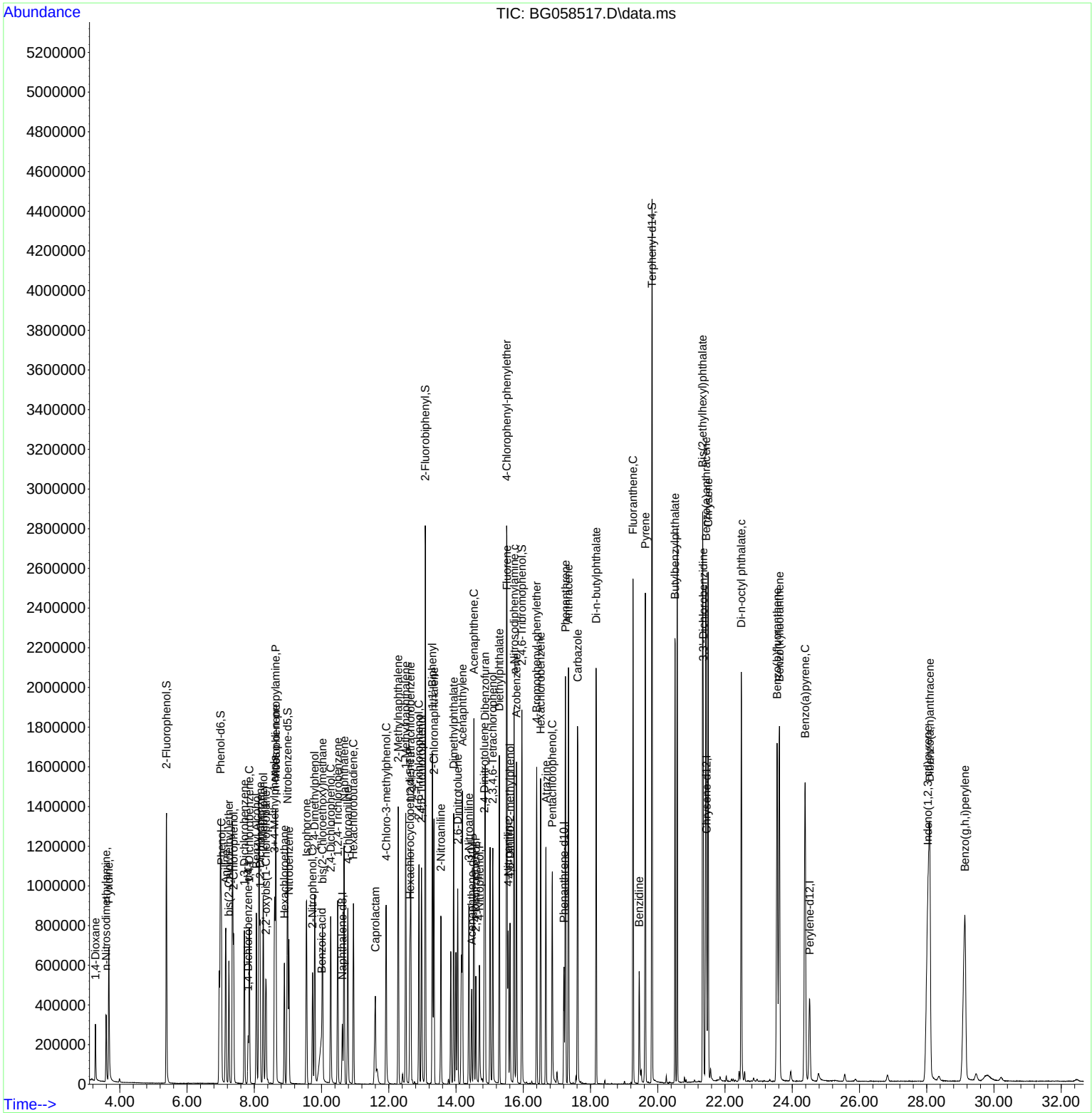
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG072823\
Data File : BG058517.D
Acq On : 28 Jul 2023 14:09
Operator : MA/JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

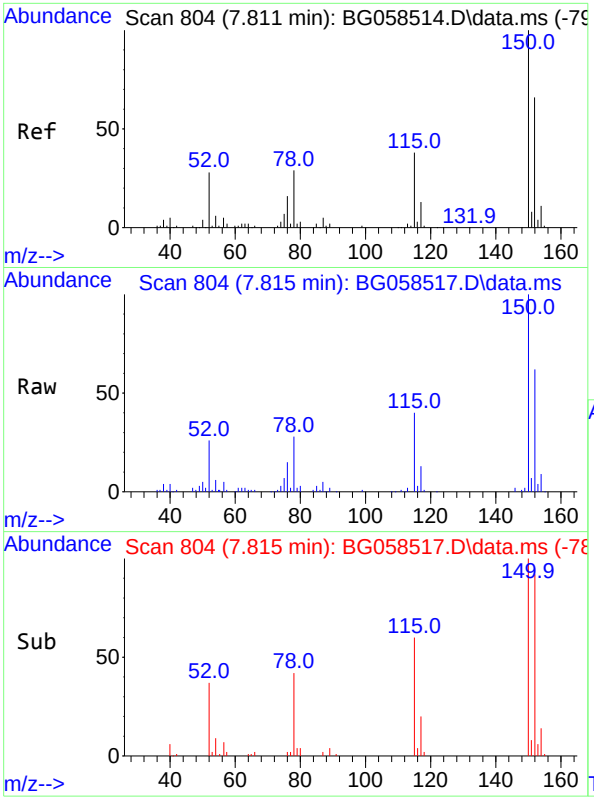
Quant Time: Jul 28 16:58:38 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 28 16:53:40 2023
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

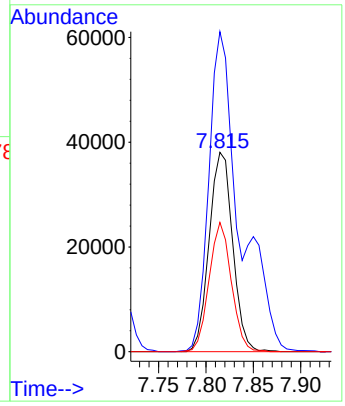




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.815 min Scan# 8(
Delta R.T. 0.004 min
Lab File: BG058517.D
Acq: 28 Jul 2023 14:09

Tgt Ion:152 Resp: 6576(

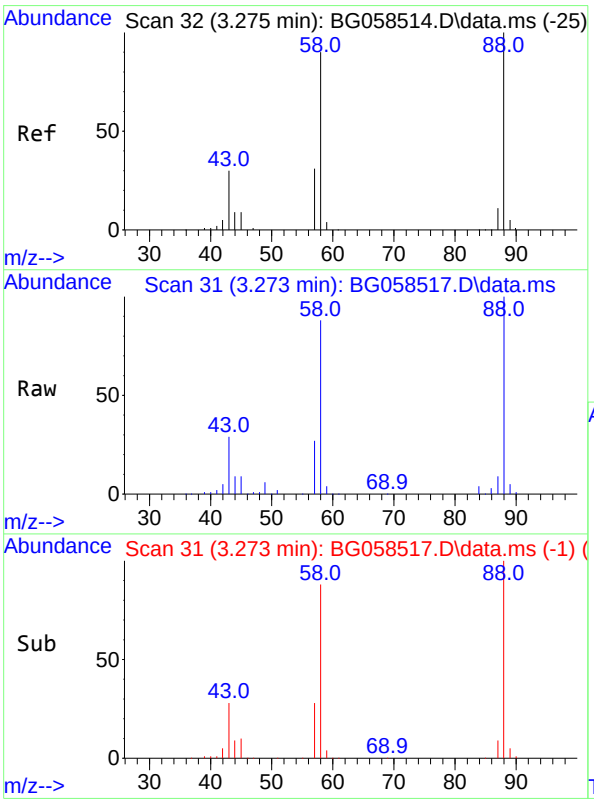
Ion	Ratio	Lower	Upper
152	100		
150	160.6	120.5	180.7
115	64.8	45.9	68.9



Instrument :
BNA_G
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

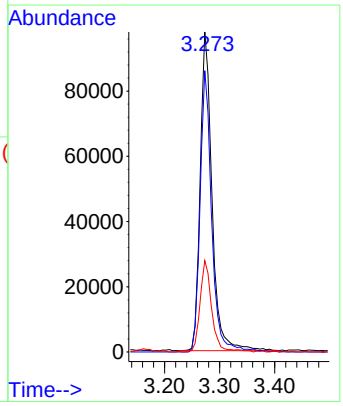
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

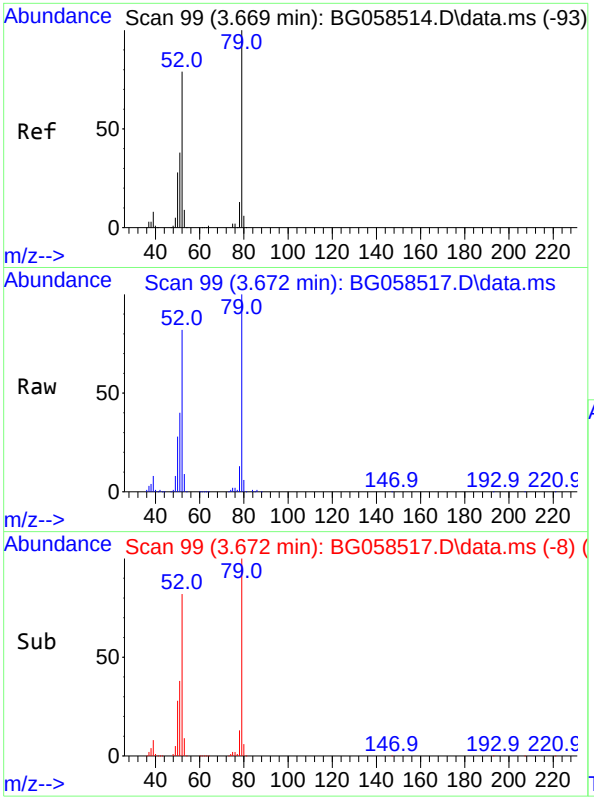


#2
1,4-Dioxane
Concen: 70.190 ng
RT: 3.273 min Scan# 31
Delta R.T. -0.002 min
Lab File: BG058517.D
Acq: 28 Jul 2023 14:09

Tgt Ion: 88 Resp: 146345

Ion	Ratio	Lower	Upper
88	100		
58	86.6	68.9	103.3
43	28.3	22.9	34.3

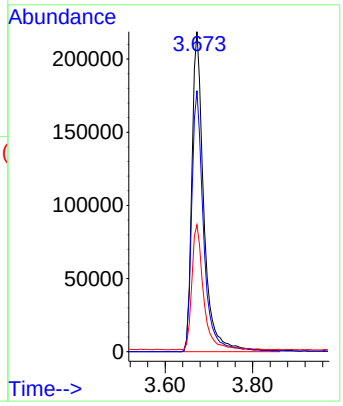




#3
Pyridine
Concen: 73.121 ng
RT: 3.672 min Scan# 9
Delta R.T. 0.003 min
Lab File: BG058517.D
Acq: 28 Jul 2023 14:09

Tgt Ion: 79 Resp: 41565

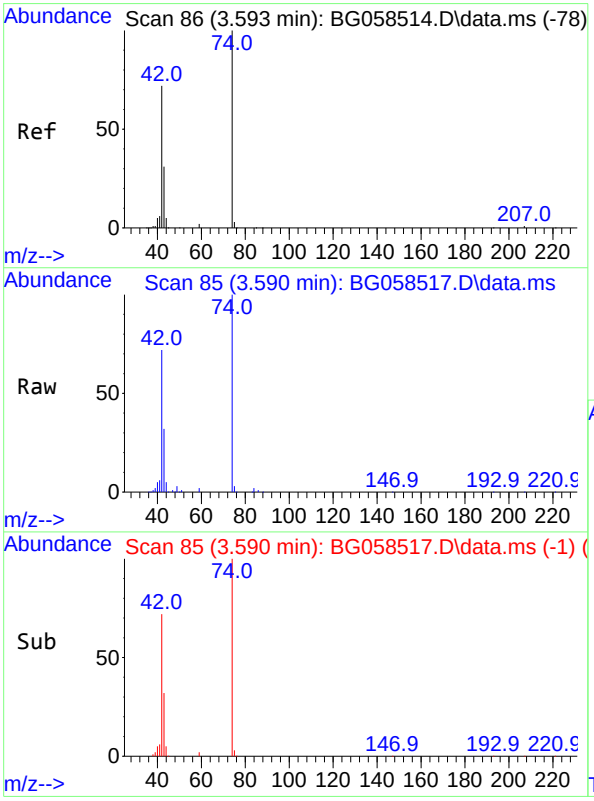
Ion	Ratio	Lower	Upper
79	100		
52	81.5	63.2	94.8
51	39.6	31.9	47.9



Instrument :
BNA_G
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

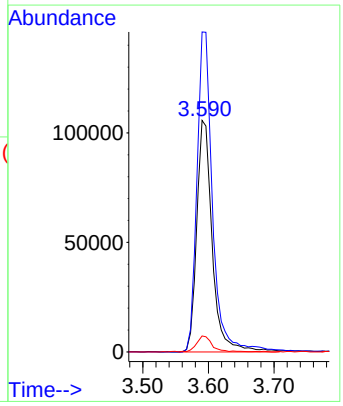
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

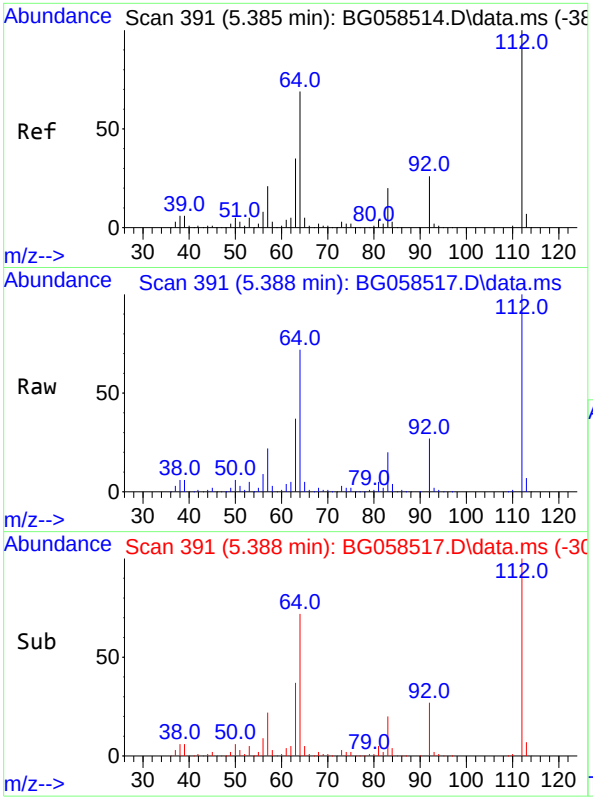


#4
n-Nitrosodimethylamine
Concen: 72.358 ng
RT: 3.590 min Scan# 85
Delta R.T. -0.002 min
Lab File: BG058517.D
Acq: 28 Jul 2023 14:09

Tgt Ion: 42 Resp: 174276

Ion	Ratio	Lower	Upper
42	100		
74	138.2	111.5	167.3
44	6.9	5.4	8.2

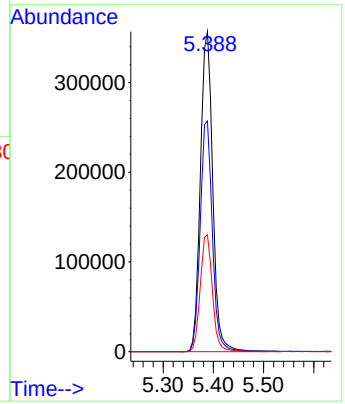




#5
2-Fluorophenol
Concen: 141.753 ng
RT: 5.388 min Scan# 3
Delta R.T. 0.003 min
Lab File: BG058517.D
Acq: 28 Jul 2023 14:09

Tgt Ion:112 Resp: 60993

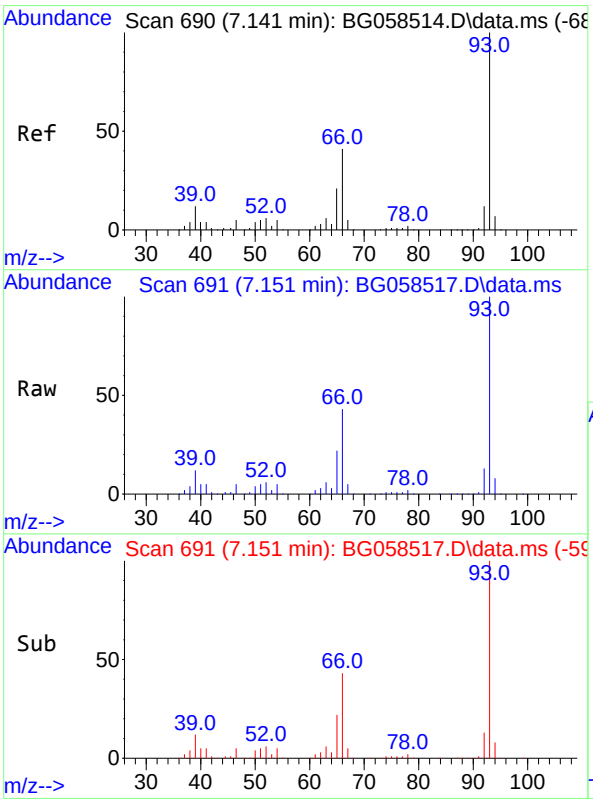
Ion	Ratio	Lower	Upper
112	100		
64	72.0	55.3	82.9
63	36.5	28.3	42.5



Instrument :
BNA_G
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

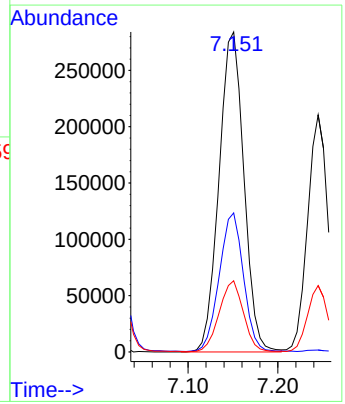
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

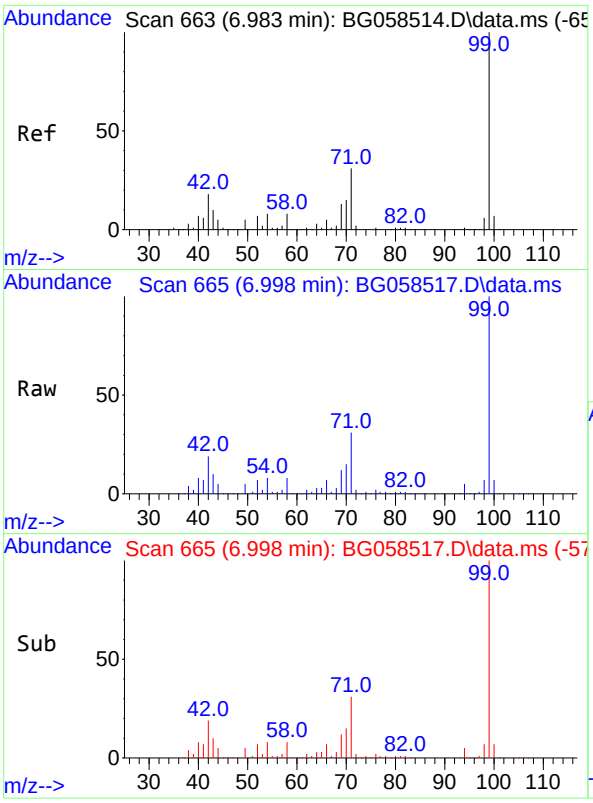


#6
Aniline
Concen: 74.087 ng
RT: 7.151 min Scan# 691
Delta R.T. 0.009 min
Lab File: BG058517.D
Acq: 28 Jul 2023 14:09

Tgt Ion: 93 Resp: 546131

Ion	Ratio	Lower	Upper
93	100		
66	43.4	33.1	49.7
65	22.2	17.0	25.4

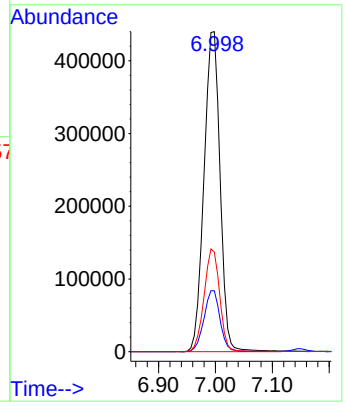




#7
Phenol-d6
Concen: 144.047 ng
RT: 6.998 min Scan# 6
Delta R.T. 0.015 min
Lab File: BG058517.D
Acq: 28 Jul 2023 14:09

Tgt Ion: 99 Resp: 86244

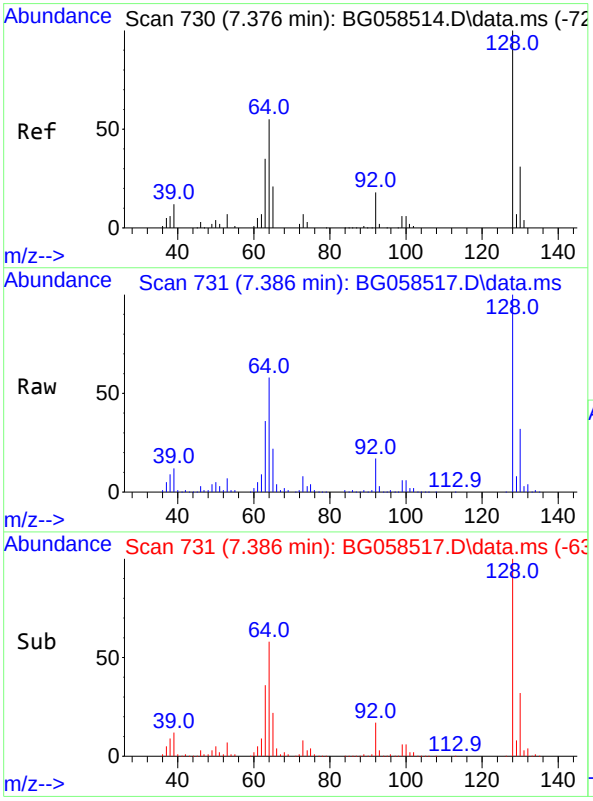
Ion	Ratio	Lower	Upper
99	100		
42	19.0	14.6	21.8
71	31.2	25.0	37.4



Instrument :
BNA_G
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

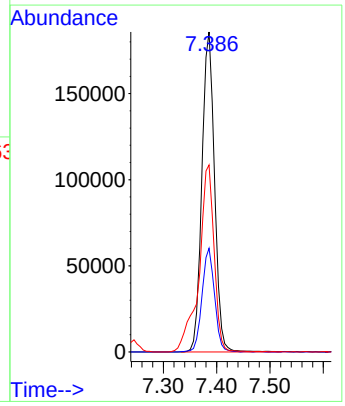
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

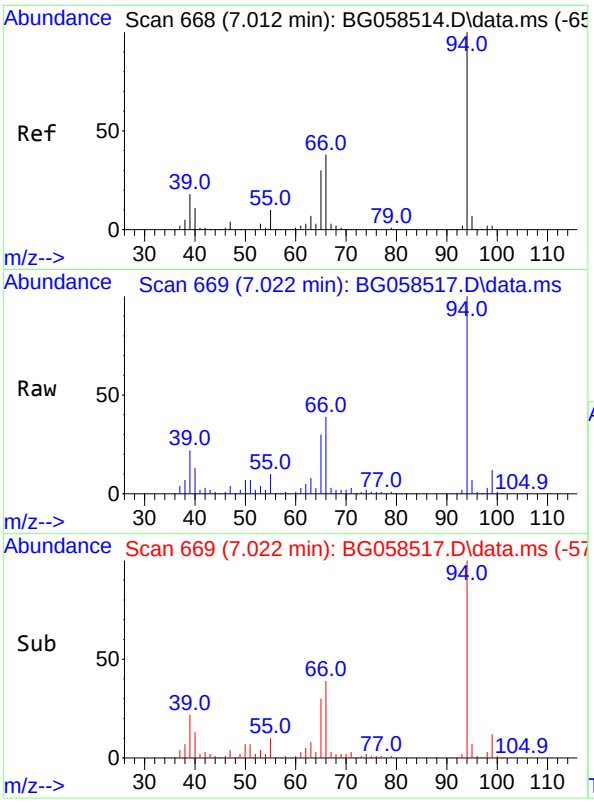


#8
2-Chlorophenol
Concen: 72.306 ng
RT: 7.386 min Scan# 731
Delta R.T. 0.009 min
Lab File: BG058517.D
Acq: 28 Jul 2023 14:09

Tgt Ion:128 Resp: 305212

Ion	Ratio	Lower	Upper
128	100		
130	32.4	10.9	50.9
64	58.5	39.0	79.0

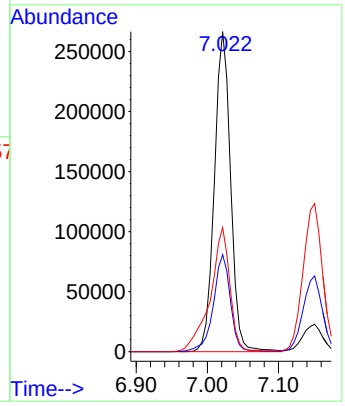




#10
Phenol
Concen: 72.217 ng
RT: 7.022 min Scan# 6
Delta R.T. 0.009 min
Lab File: BG058517.D
Acq: 28 Jul 2023 14:09

Tgt Ion: 94 Resp: 42237

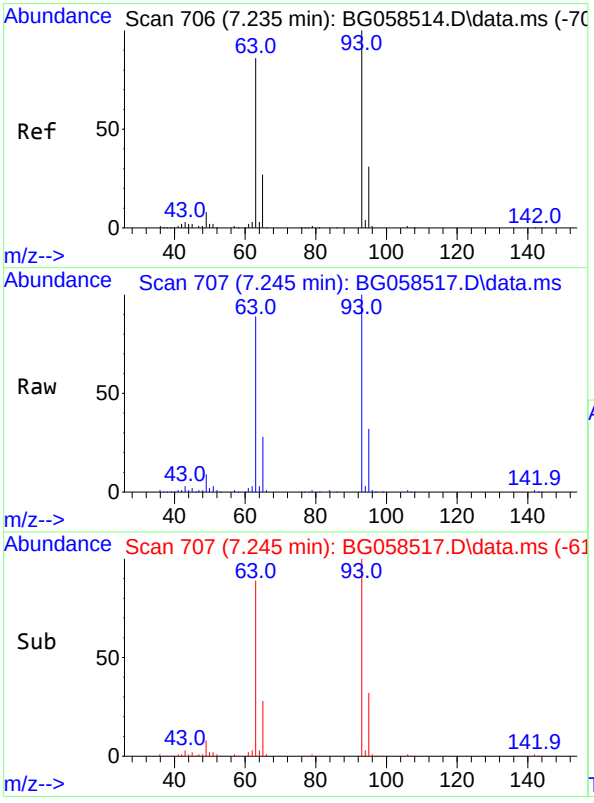
Ion	Ratio	Lower	Upper
94	100		
65	30.3	10.4	50.4
66	38.8	18.7	58.7



Instrument :
BNA_G
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

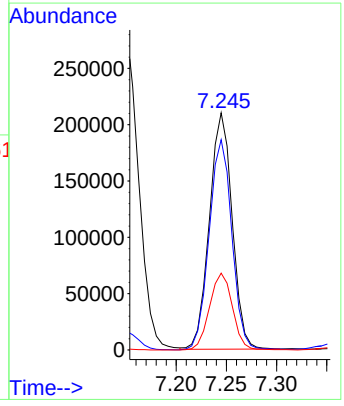
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

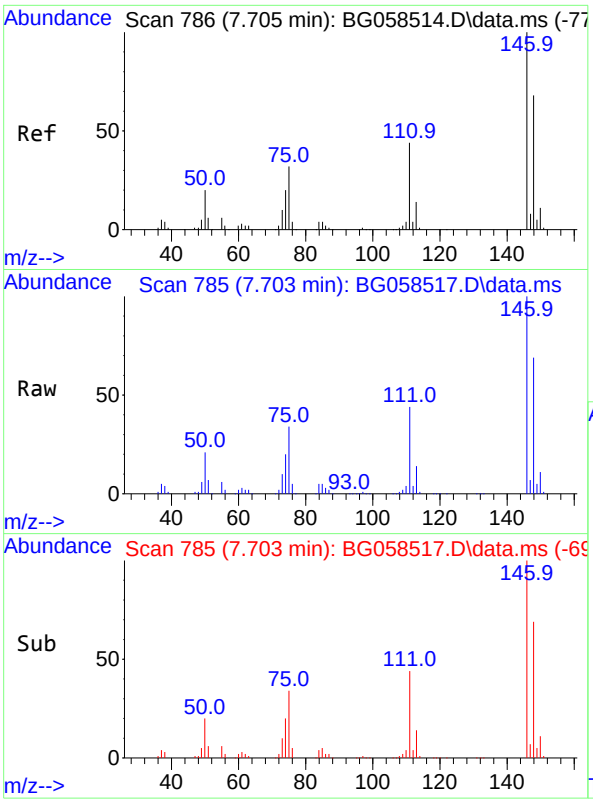


#11
bis(2-Chloroethyl)ether
Concen: 71.636 ng
RT: 7.245 min Scan# 707
Delta R.T. 0.009 min
Lab File: BG058517.D
Acq: 28 Jul 2023 14:09

Tgt Ion: 93 Resp: 330300

Ion	Ratio	Lower	Upper
93	100		
63	88.7	65.5	105.5
95	32.4	11.2	51.2

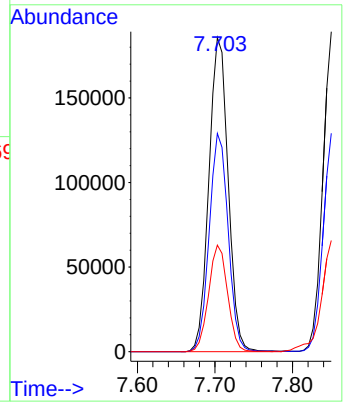




#12
1,3-Dichlorobenzene
Concen: 70.961 ng
RT: 7.703 min Scan# 7
Delta R.T. -0.002 min
Lab File: BG058517.D
Acq: 28 Jul 2023 14:09

Tgt Ion:146 Resp: 31985

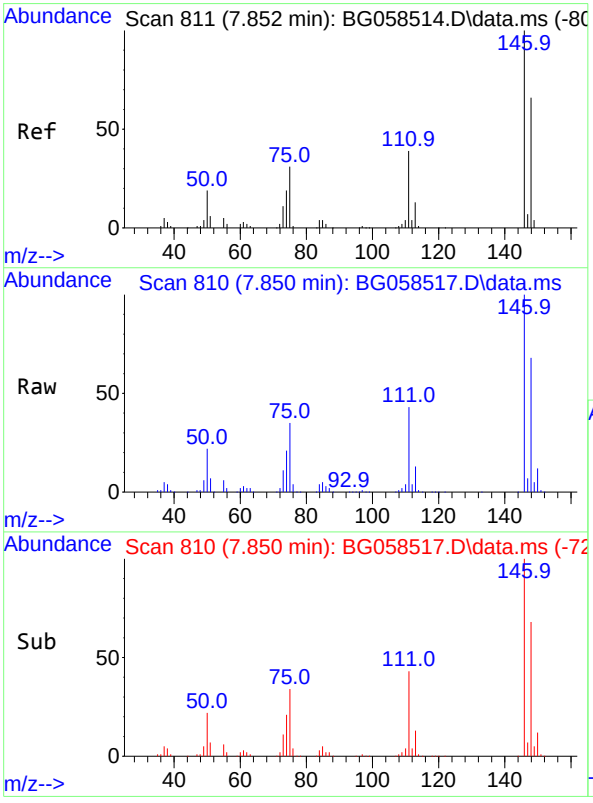
Ion	Ratio	Lower	Upper
146	100		
148	69.5	54.7	82.1
75	33.9	25.8	38.8



Instrument :
BNA_G
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

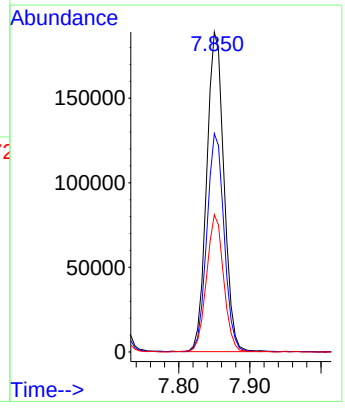
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

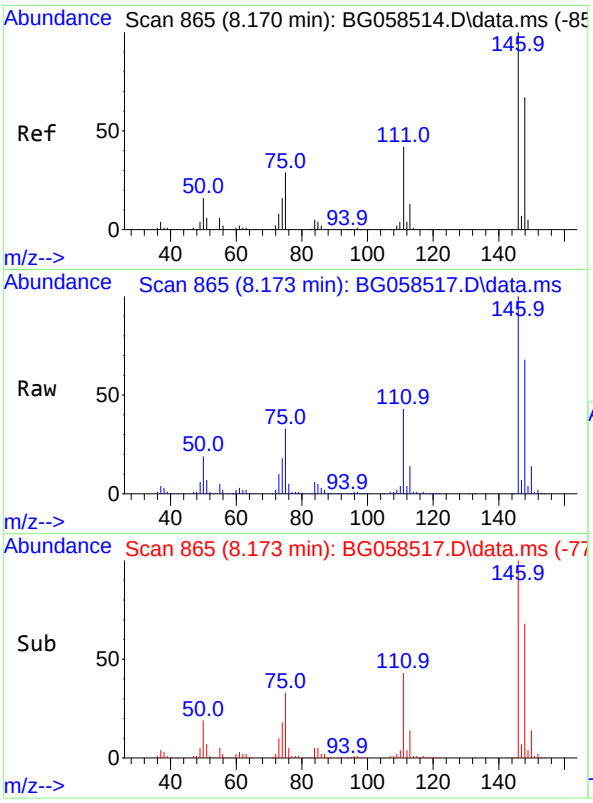


#13
1,4-Dichlorobenzene
Concen: 70.607 ng
RT: 7.850 min Scan# 810
Delta R.T. -0.002 min
Lab File: BG058517.D
Acq: 28 Jul 2023 14:09

Tgt Ion:146 Resp: 319554

Ion	Ratio	Lower	Upper
146	100		
148	68.2	52.8	79.2
111	42.9	31.7	47.5

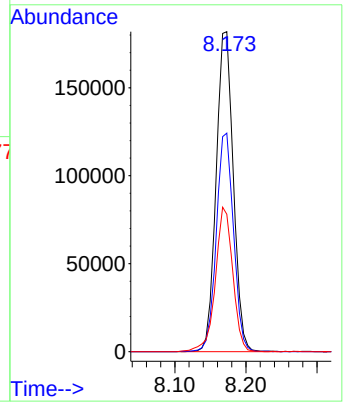




#14
1,2-Dichlorobenzene
Concen: 70.230 ng
RT: 8.173 min Scan# 8
Delta R.T. 0.003 min
Lab File: BG058517.D
Acq: 28 Jul 2023 14:09

Tgt Ion:146 Resp: 30388

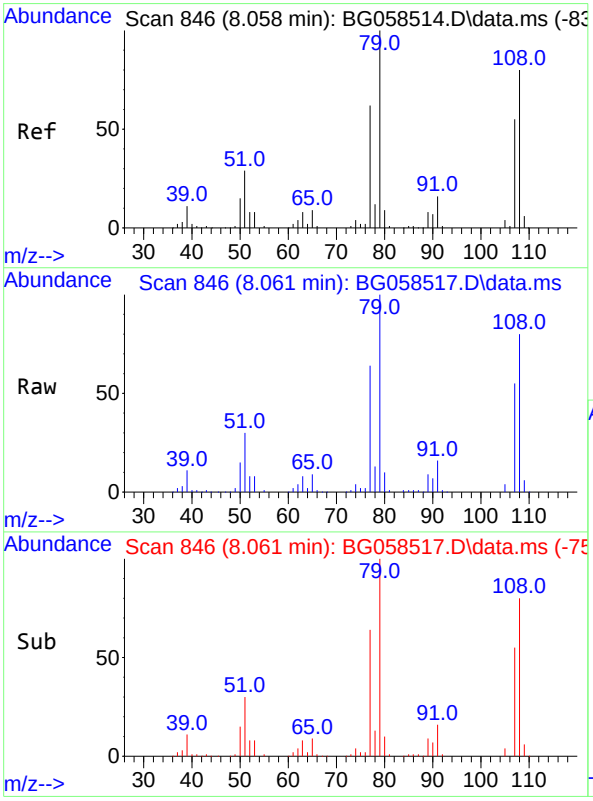
Ion	Ratio	Lower	Upper
146	100		
148	68.3	53.4	80.2
111	43.0	34.2	51.2



Instrument :
BNA_G
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

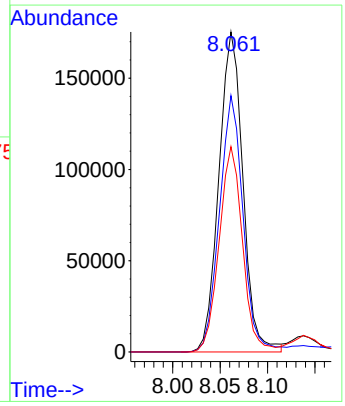
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

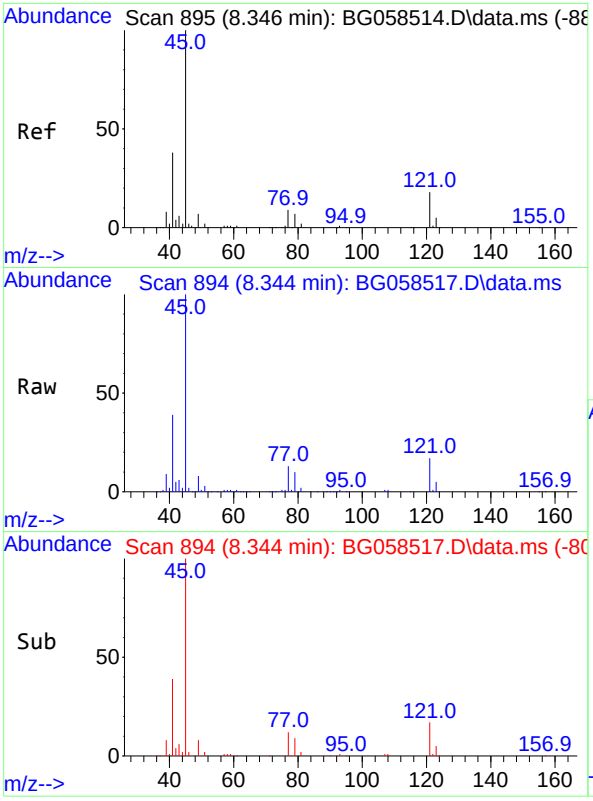


#15
Benzyl Alcohol
Concen: 81.461 ng
RT: 8.061 min Scan# 846
Delta R.T. 0.003 min
Lab File: BG058517.D
Acq: 28 Jul 2023 14:09

Tgt Ion: 79 Resp: 309303

Ion	Ratio	Lower	Upper
79	100		
108	80.1	63.8	95.6
77	64.1	49.8	74.6

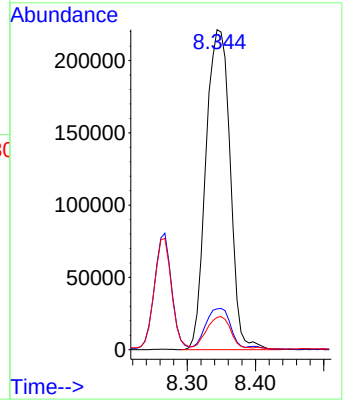




#16
2,2'-oxybis(1-Chloropropane)
Concen: 72.956 ng
RT: 8.344 min Scan# 8
Delta R.T. -0.002 min
Lab File: BG058517.D
Acq: 28 Jul 2023 14:09

Tgt Ion: 45 Resp: 54642

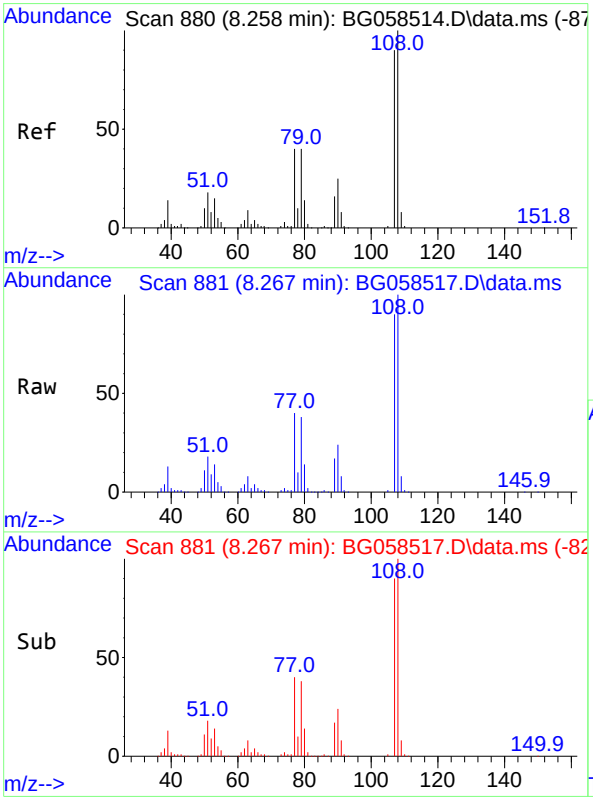
Ion	Ratio	Lower	Upper
45	100		
77	12.8	0.0	32.6
79	10.1	0.0	30.2



Instrument :
BNA_G
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

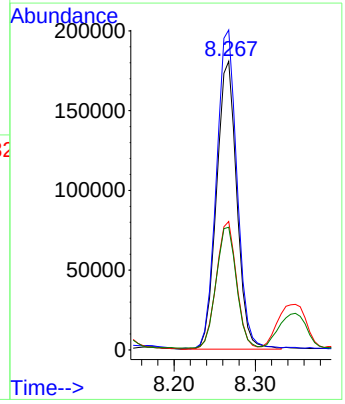
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

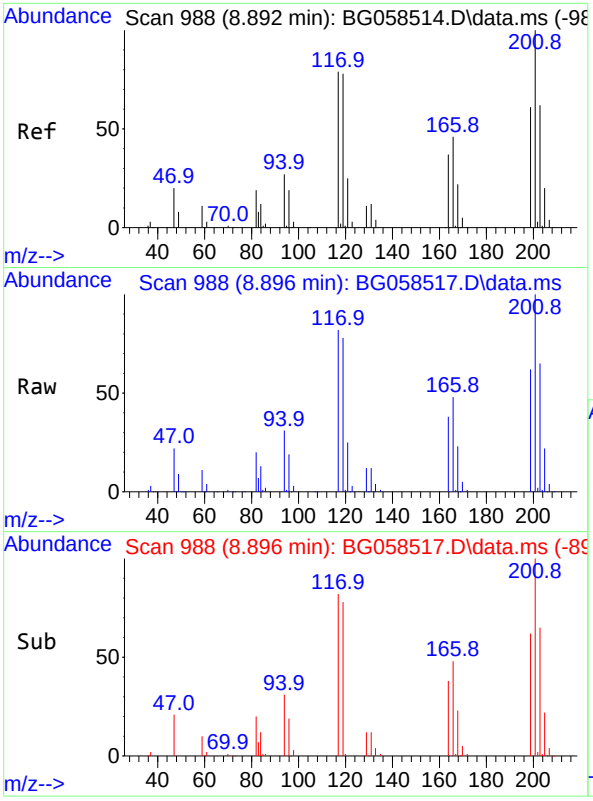


#17
2-Methylphenol
Concen: 73.171 ng
RT: 8.267 min Scan# 881
Delta R.T. 0.009 min
Lab File: BG058517.D
Acq: 28 Jul 2023 14:09

Tgt Ion:107 Resp: 312904

Ion	Ratio	Lower	Upper
107	100		
108	110.9	89.1	133.7
77	44.5	36.2	54.4
79	42.5	36.1	54.1

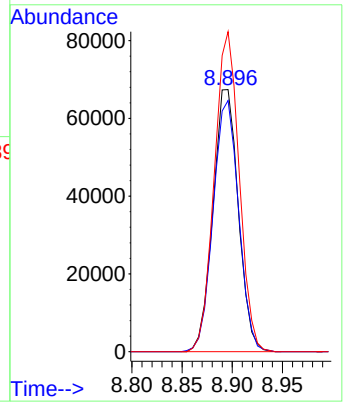




#18
Hexachloroethane
Concen: 71.888 ng
RT: 8.896 min Scan# 9
Delta R.T. 0.004 min
Lab File: BG058517.D
Acq: 28 Jul 2023 14:09

Tgt Ion:117 Resp: 11825

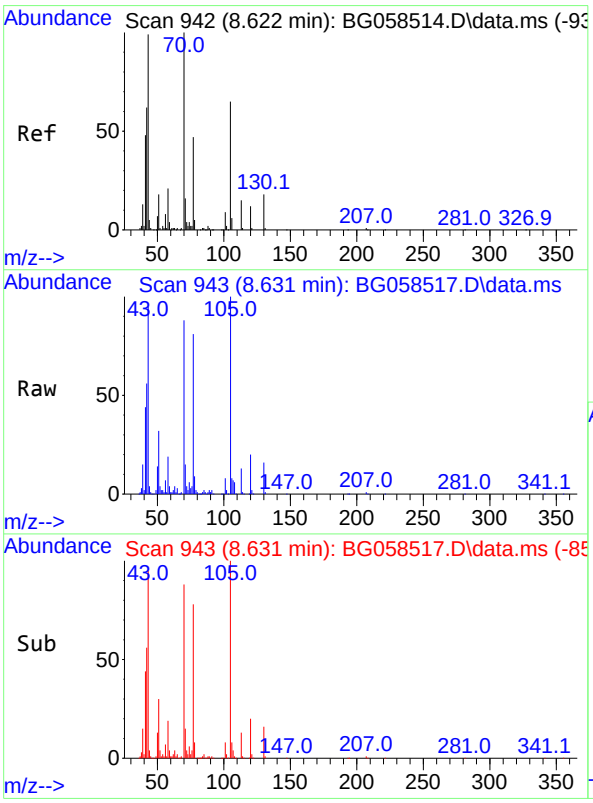
Ion	Ratio	Lower	Upper
117	100		
119	95.8	78.6	117.8
201	122.1	101.4	152.0



Instrument :
BNA_G
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

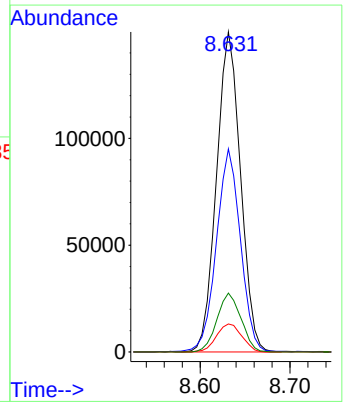
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

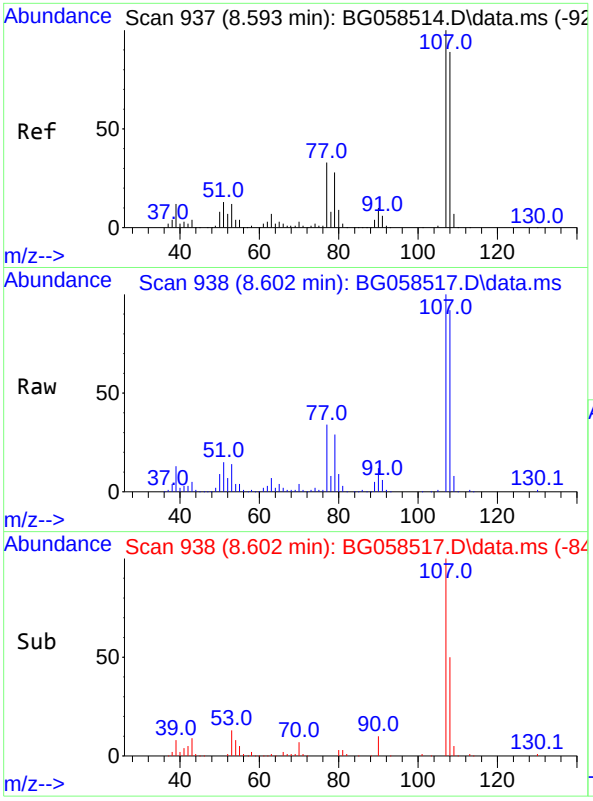


#19
n-Nitroso-di-n-propylamine
Concen: 71.996 ng
RT: 8.631 min Scan# 943
Delta R.T. 0.009 min
Lab File: BG058517.D
Acq: 28 Jul 2023 14:09

Tgt Ion: 70 Resp: 278433

Ion	Ratio	Lower	Upper
70	100		
42	63.4	49.7	74.5
101	8.8	7.0	10.4
130	18.4	14.3	21.5

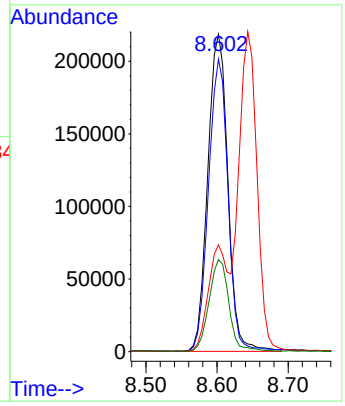




#20
3+4-Methylphenols
Concen: 74.354 ng
RT: 8.602 min Scan# 9
Delta R.T. 0.009 min
Lab File: BG058517.D
Acq: 28 Jul 2023 14:09

Tgt Ion:107 Resp: 43009

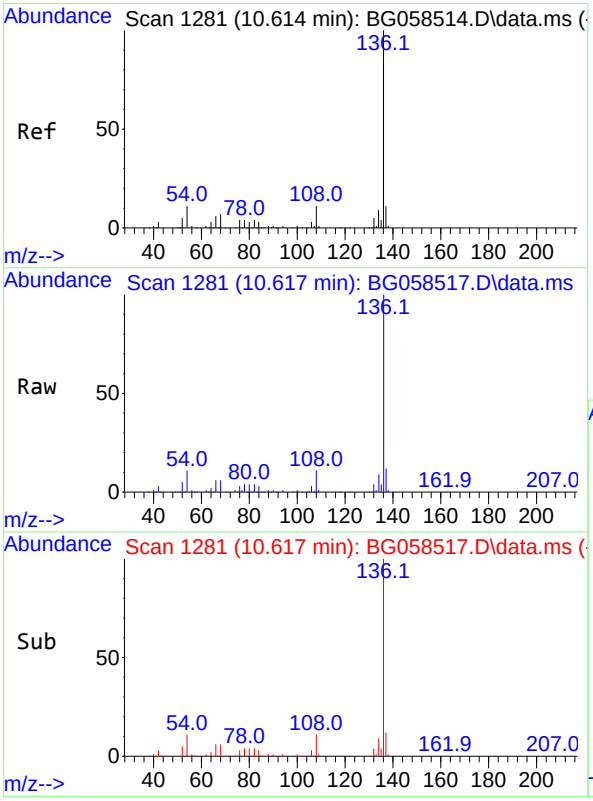
Ion	Ratio	Lower	Upper
107	100		
108	92.1	69.4	109.4
77	33.7	13.0	53.0
79	29.0	8.0	48.0



Instrument :
BNA_G
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

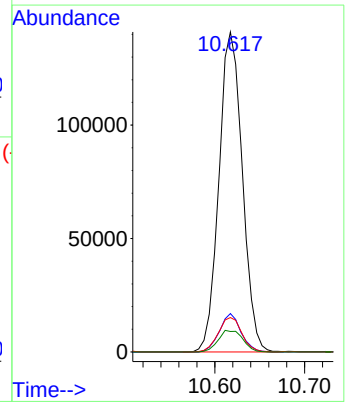
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

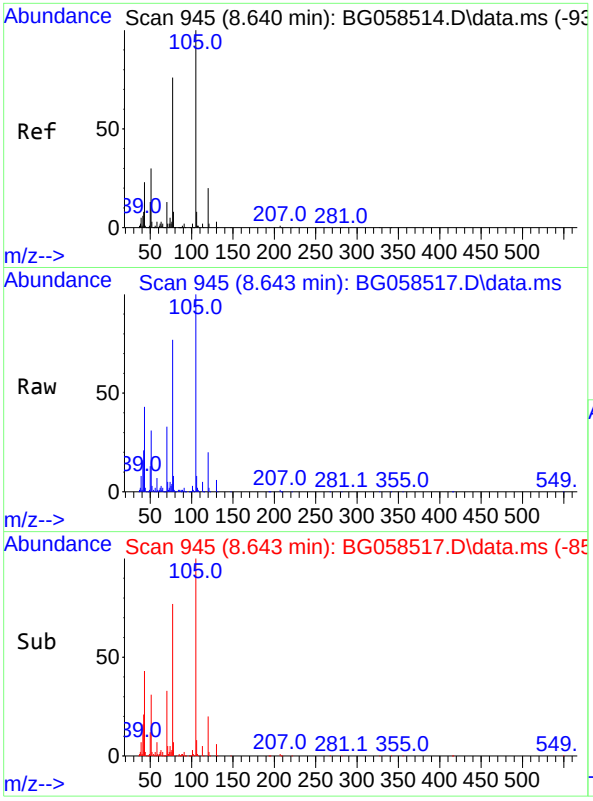


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.617 min Scan# 1281
Delta R.T. 0.004 min
Lab File: BG058517.D
Acq: 28 Jul 2023 14:09

Tgt Ion:136 Resp: 255400

Ion	Ratio	Lower	Upper
136	100		
137	12.0	8.6	13.0
54	10.8	8.9	13.3
68	6.4	5.6	8.4

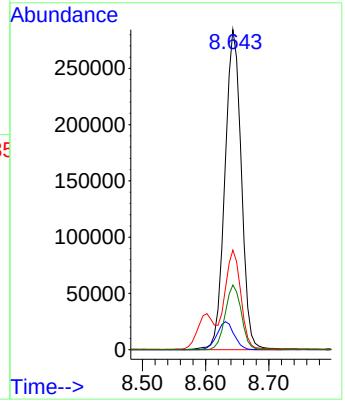




#22
Acetophenone
Concen: 74.991 ng
RT: 8.643 min Scan# 94
Delta R.T. 0.004 min
Lab File: BG058517.D
Acq: 28 Jul 2023 14:09

Tgt Ion:105 Resp: 51283

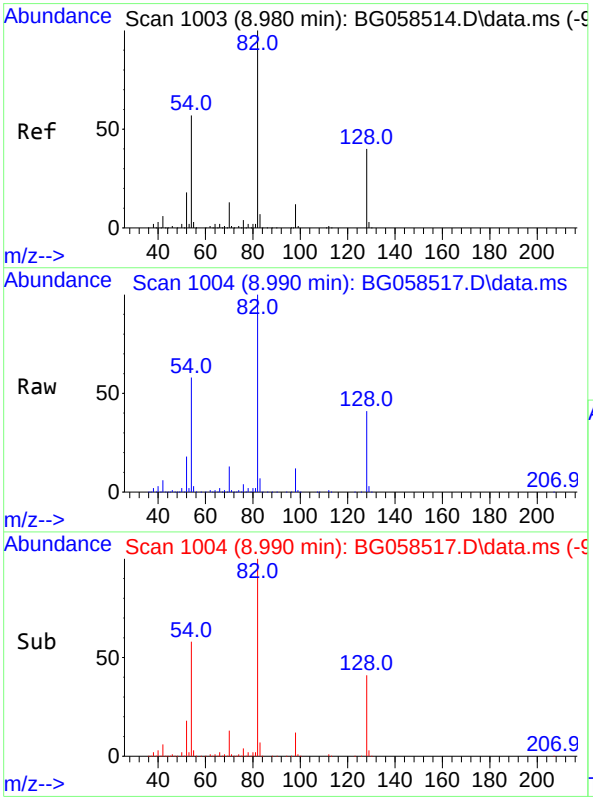
Ion	Ratio	Lower	Upper
105	100		
71	5.3	1.8	2.6
51	31.1	24.2	36.2
120	20.2	16.2	24.4



Instrument :
BNA_G
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

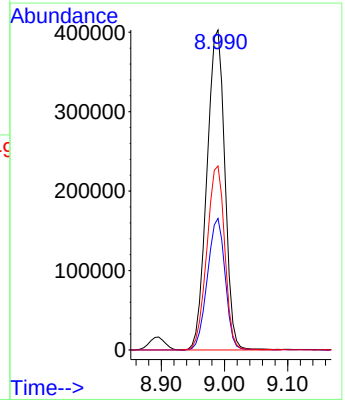
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

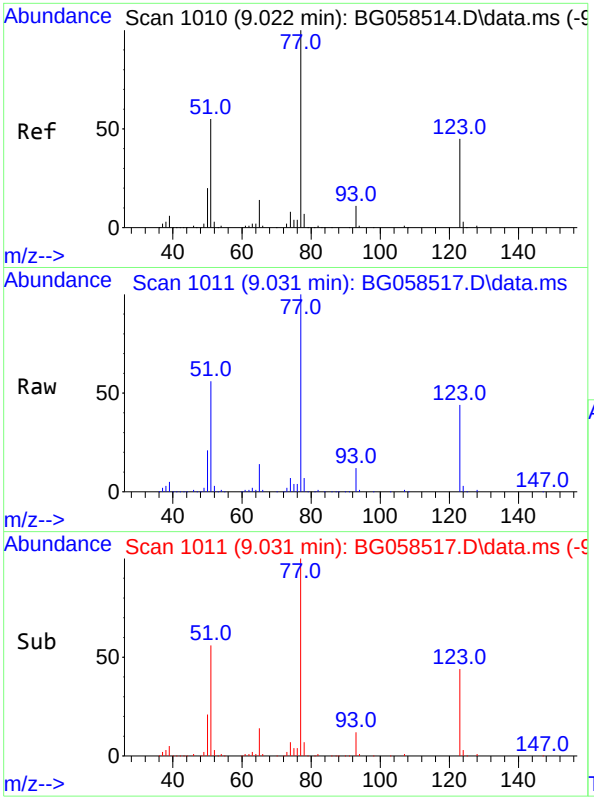


#23
Nitrobenzene-d5
Concen: 152.977 ng
RT: 8.990 min Scan# 1004
Delta R.T. 0.009 min
Lab File: BG058517.D
Acq: 28 Jul 2023 14:09

Tgt Ion: 82 Resp: 795322

Ion	Ratio	Lower	Upper
82	100		
128	41.1	32.2	48.2
54	57.5	46.0	69.0





#24
Nitrobenzene
Concen: 76.567 ng
RT: 9.031 min Scan# 1
Delta R.T. 0.009 min
Lab File: BG058517.D
Acq: 28 Jul 2023 14:09

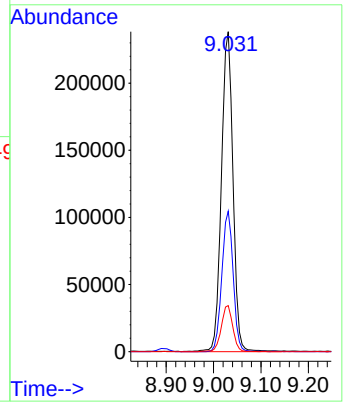
Tgt Ion: 77 Resp: 40468

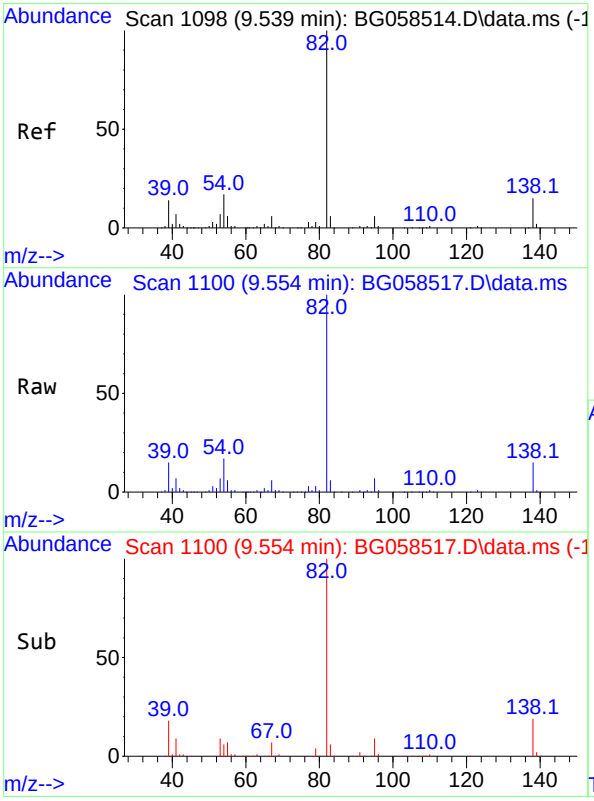
Ion	Ratio	Lower	Upper
77	100		
123	43.9	35.6	53.4
65	14.4	11.4	17.0

Instrument :
BNA_G
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

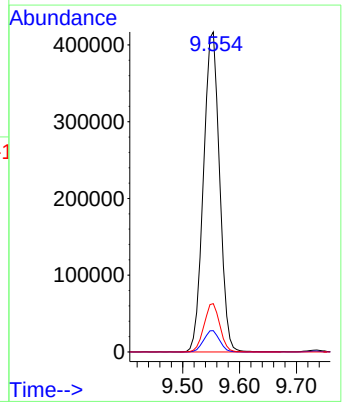


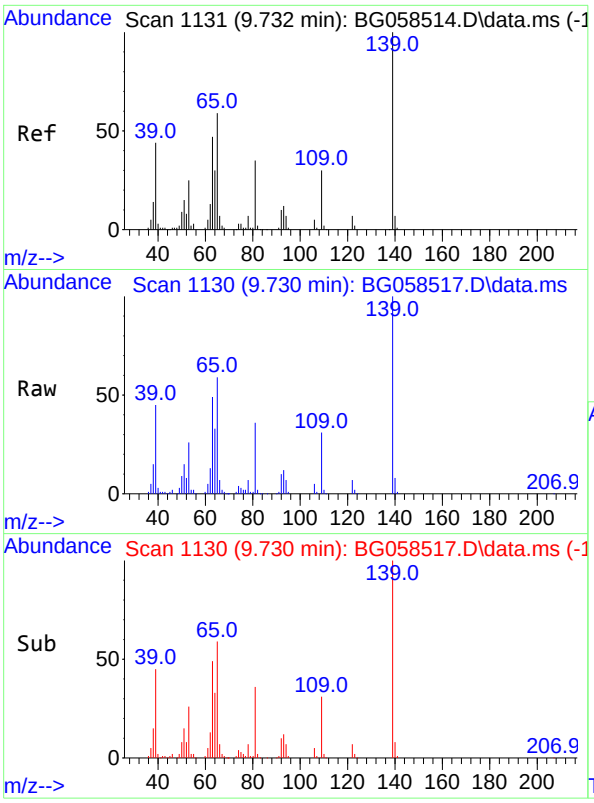


#25
Isophorone
Concen: 76.183 ng
RT: 9.554 min Scan# 1100
Delta R.T. 0.015 min
Lab File: BG058517.D
Acq: 28 Jul 2023 14:09

Tgt Ion: 82 Resp: 818360

Ion	Ratio	Lower	Upper
82	100		
95	6.6	5.1	7.7
138	15.1	11.9	17.9

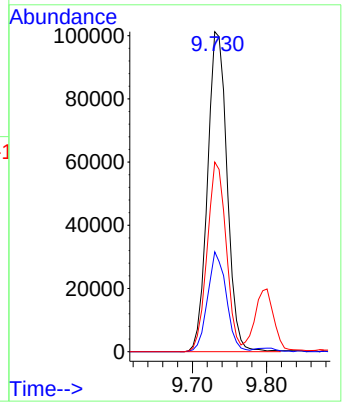




#26
2-Nitrophenol
Concen: 80.605 ng
RT: 9.730 min Scan# 1
Delta R.T. -0.002 min
Lab File: BG058517.D
Acq: 28 Jul 2023 14:09

Tgt Ion:139 Resp: 18545

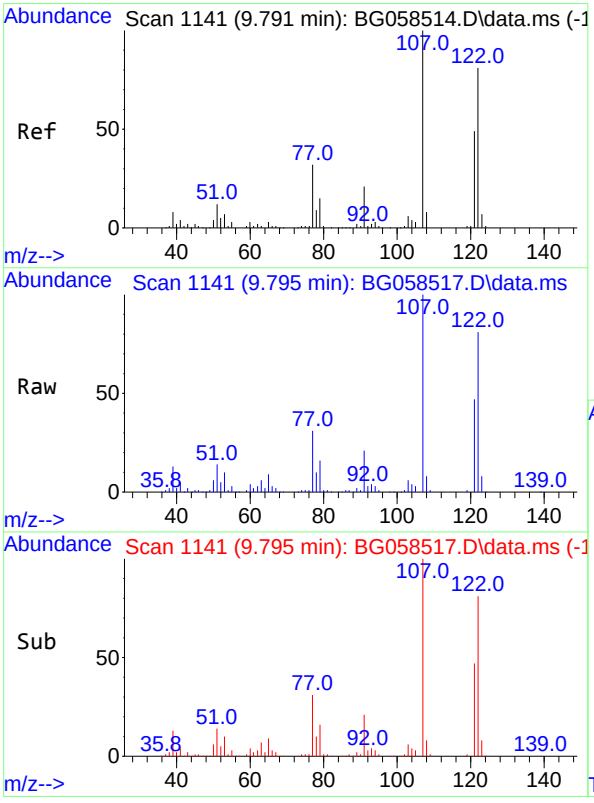
Ion	Ratio	Lower	Upper
139	100		
109	31.2	24.2	36.2
65	59.3	47.0	70.4



Instrument :
BNA_G
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

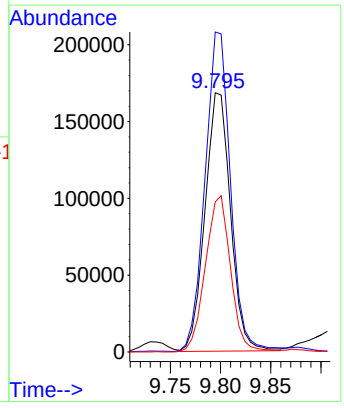
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

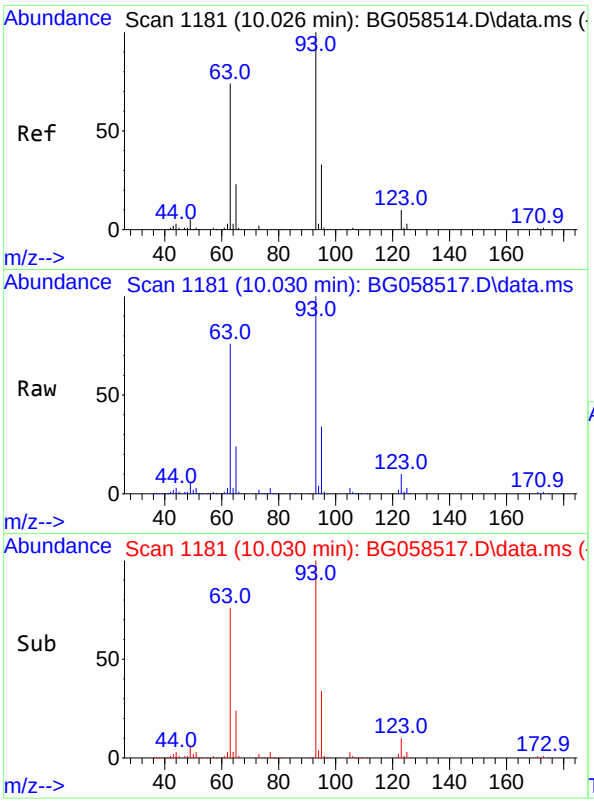


#27
2,4-Dimethylphenol
Concen: 78.119 ng
RT: 9.795 min Scan# 1141
Delta R.T. 0.004 min
Lab File: BG058517.D
Acq: 28 Jul 2023 14:09

Tgt Ion:122 Resp: 298126

Ion	Ratio	Lower	Upper
122	100		
107	123.4	98.0	147.0
121	57.9	47.8	71.6

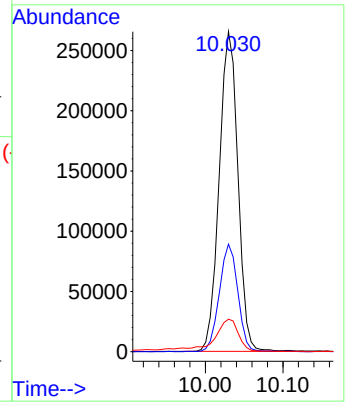




#28
bis(2-Chloroethoxy)methane
Concen: 76.133 ng
RT: 10.030 min Scan# 1
Delta R.T. 0.004 min
Lab File: BG058517.D
Acq: 28 Jul 2023 14:09

Tgt Ion: 93 Resp: 44506

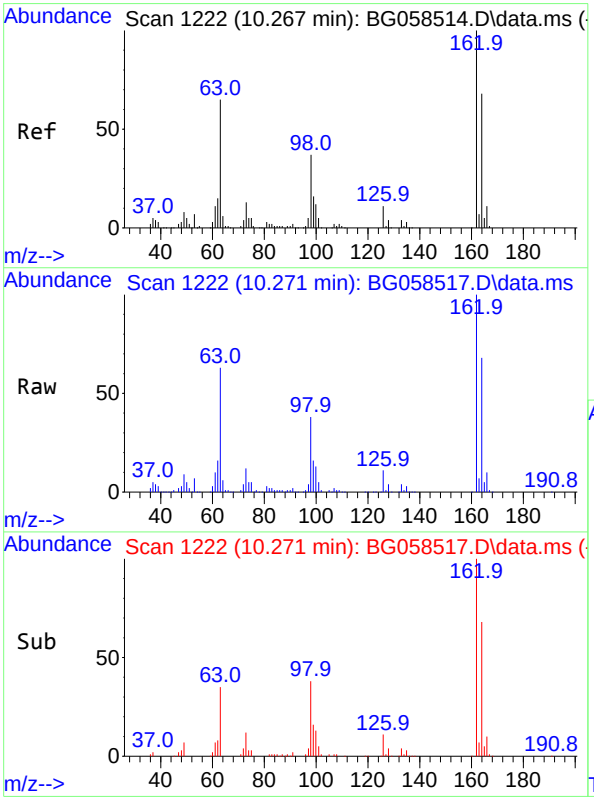
Ion	Ratio	Lower	Upper
93	100		
95	33.6	26.0	39.0
123	10.2	7.8	11.8



Instrument :
BNA_G
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

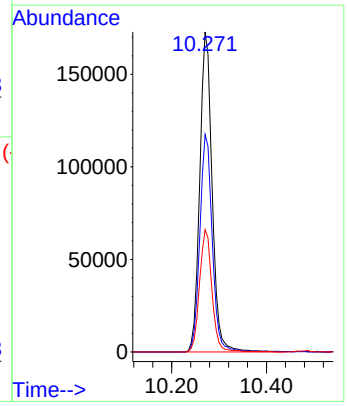
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

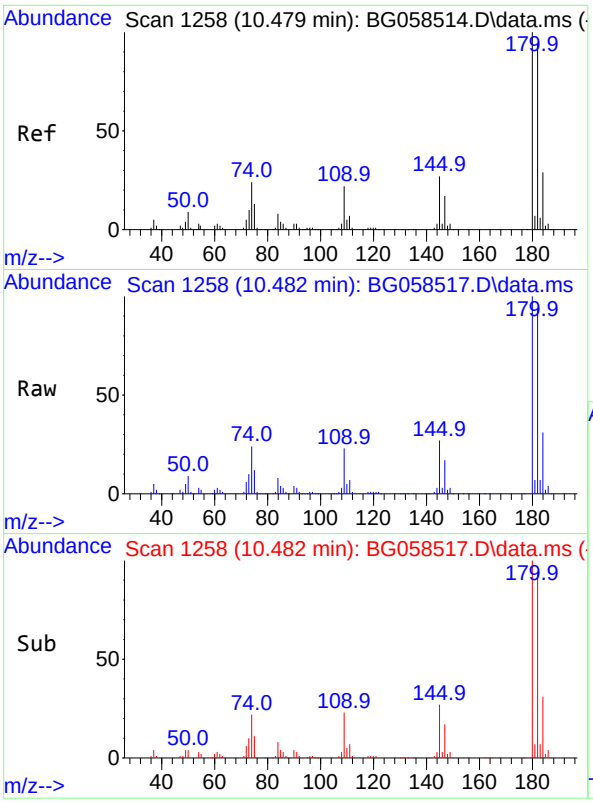


#29
2,4-Dichlorophenol
Concen: 79.142 ng
RT: 10.271 min Scan# 1222
Delta R.T. 0.003 min
Lab File: BG058517.D
Acq: 28 Jul 2023 14:09

Tgt Ion:162 Resp: 313595

Ion	Ratio	Lower	Upper
162	100		
164	68.0	47.6	87.6
98	38.2	17.1	57.1

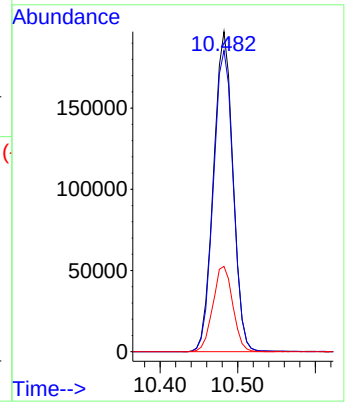




#30
1,2,4-Trichlorobenzene
Concen: 75.259 ng
RT: 10.482 min Scan# 1
Delta R.T. 0.003 min
Lab File: BG058517.D
Acq: 28 Jul 2023 14:09

Tgt Ion:180 Resp: 34390

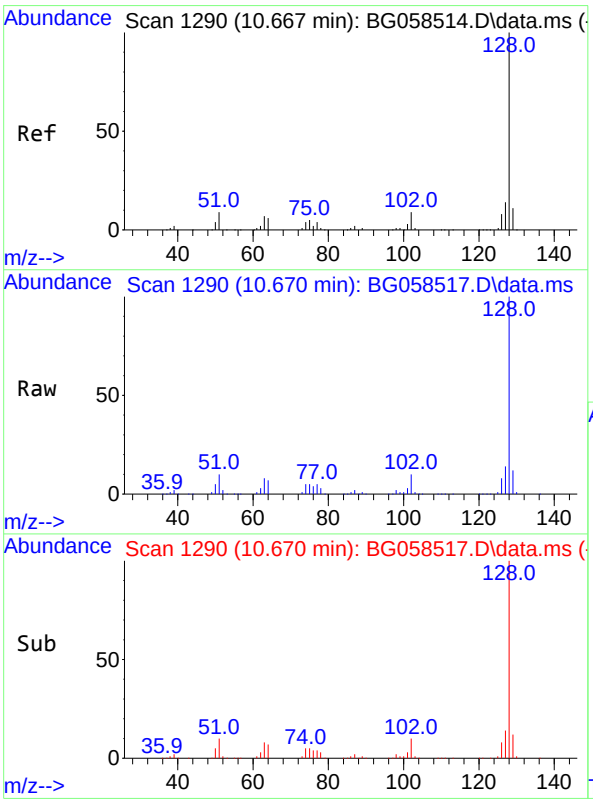
Ion	Ratio	Lower	Upper
180	100		
182	94.1	75.0	112.4
145	26.6	21.9	32.9



Instrument :
BNA_G
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

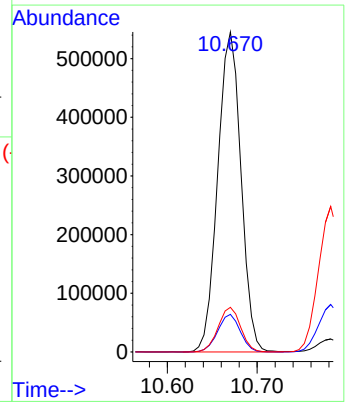
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

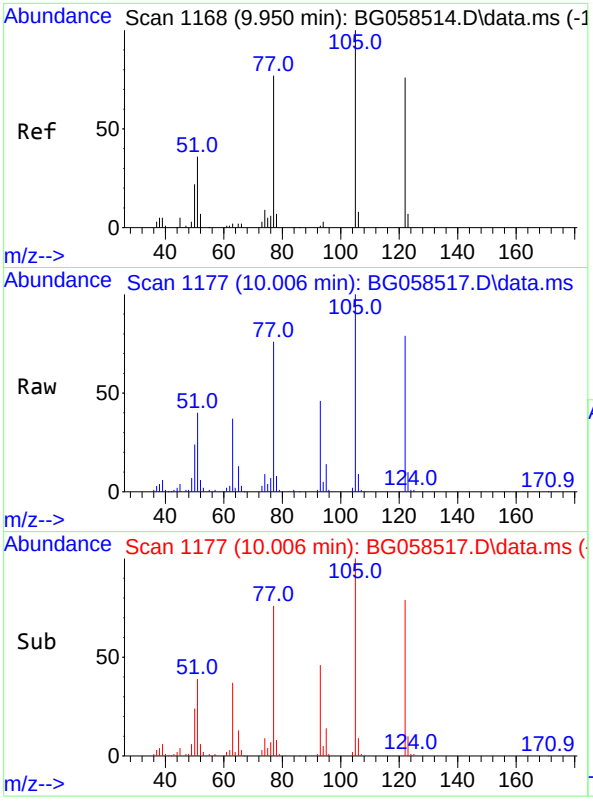


#31
Naphthalene
Concen: 72.857 ng
RT: 10.670 min Scan# 1290
Delta R.T. 0.004 min
Lab File: BG058517.D
Acq: 28 Jul 2023 14:09

Tgt Ion:128 Resp: 980736

Ion	Ratio	Lower	Upper
128	100		
129	11.7	8.8	13.2
127	13.9	10.9	16.3

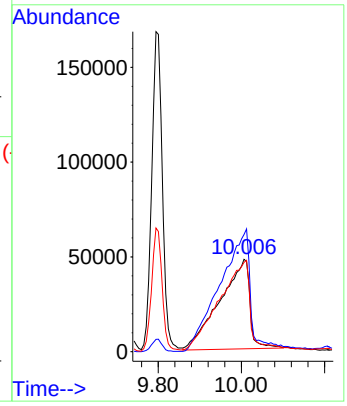




#32
Benzoic acid
Concen: 78.706 ng
RT: 10.006 min Scan# 11
Delta R.T. 0.056 min
Lab File: BG058517.D
Acq: 28 Jul 2023 14:09

Tgt Ion:122 Resp: 23794

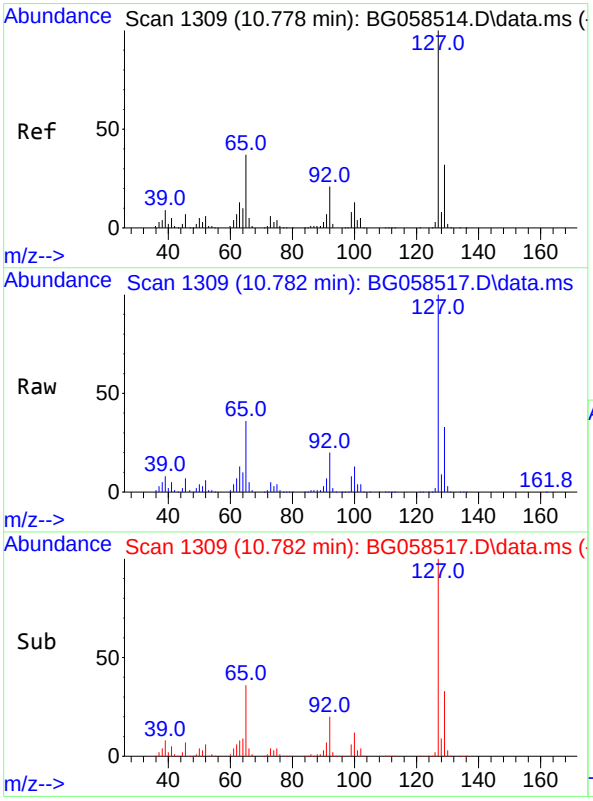
Ion	Ratio	Lower	Upper
122	100		
105	126.8	106.5	146.5
77	96.6	78.1	118.1



Instrument :
BNA_G
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

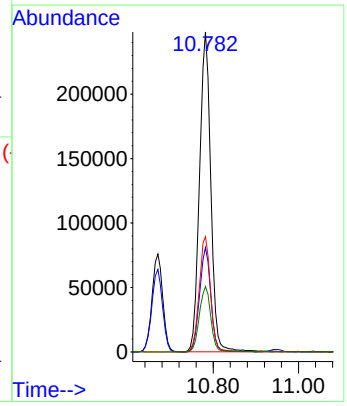
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

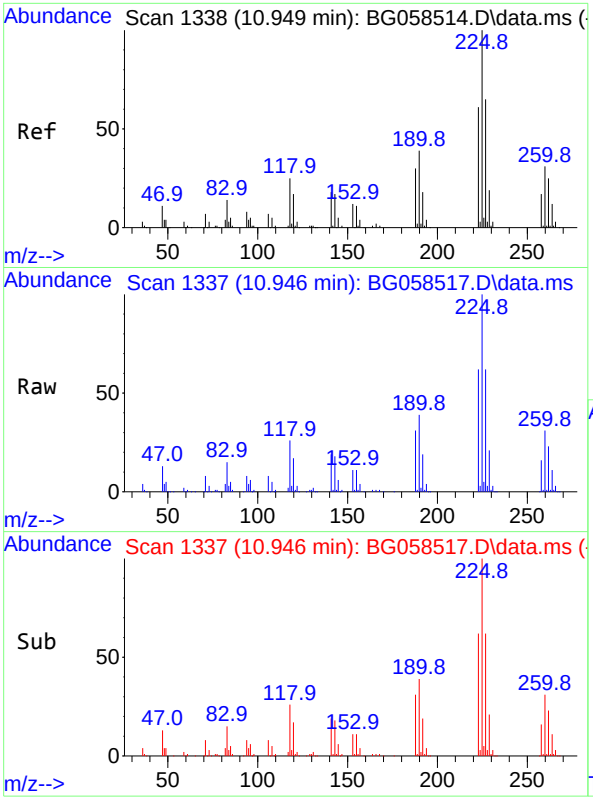


#33
4-Chloroaniline
Concen: 79.903 ng
RT: 10.782 min Scan# 1309
Delta R.T. 0.004 min
Lab File: BG058517.D
Acq: 28 Jul 2023 14:09

Tgt Ion:127 Resp: 454439

Ion	Ratio	Lower	Upper
127	100		
129	32.6	25.4	38.2
65	36.0	29.5	44.3
92	20.4	16.6	24.8

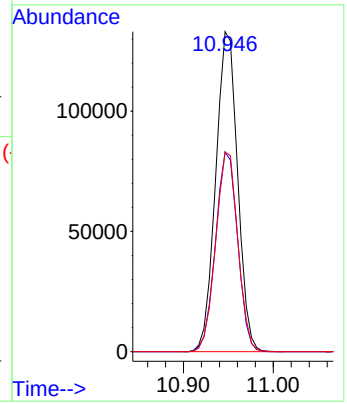




#34
Hexachlorobutadiene
Concen: 76.527 ng
RT: 10.946 min Scan# 1
Delta R.T. -0.002 min
Lab File: BG058517.D
Acq: 28 Jul 2023 14:09

Tgt Ion:225 Resp: 22520

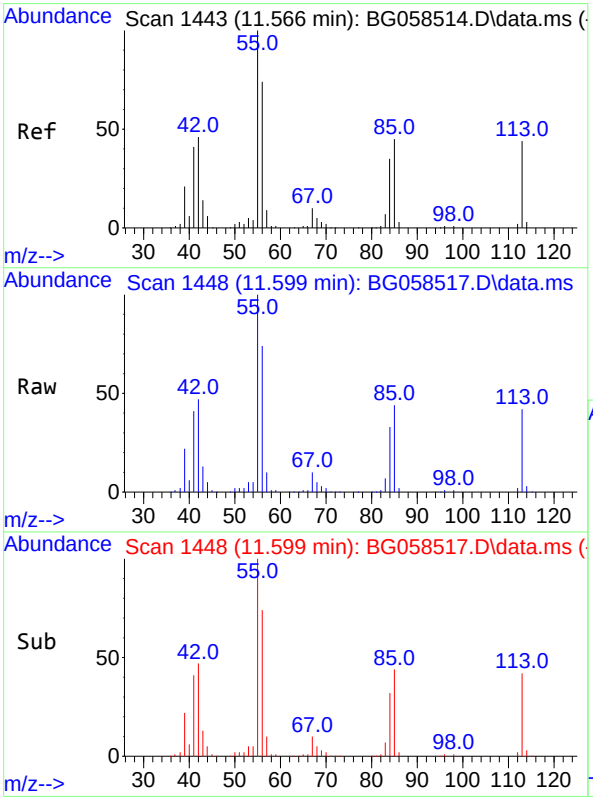
Ion	Ratio	Lower	Upper
225	100		
223	62.4	49.0	73.6
227	62.4	51.7	77.5



Instrument :
BNA_G
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

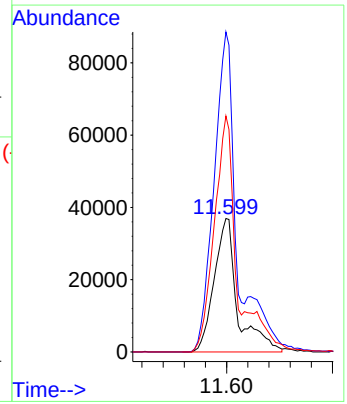
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

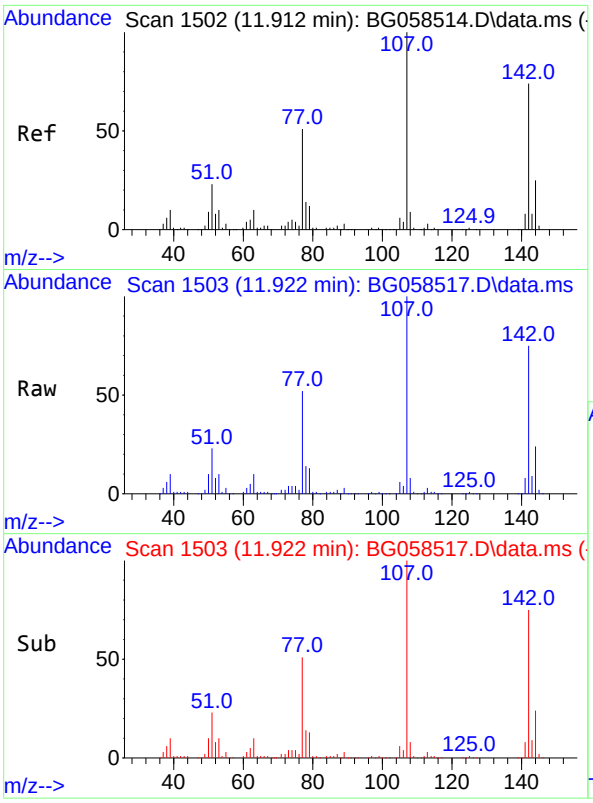


#35
Caprolactam
Concen: 77.224 ng m
RT: 11.599 min Scan# 1448
Delta R.T. 0.033 min
Lab File: BG058517.D
Acq: 28 Jul 2023 14:09

Tgt Ion:113 Resp: 112997

Ion	Ratio	Lower	Upper
113	100		
55	239.7	208.0	248.0
56	176.7	148.6	188.6

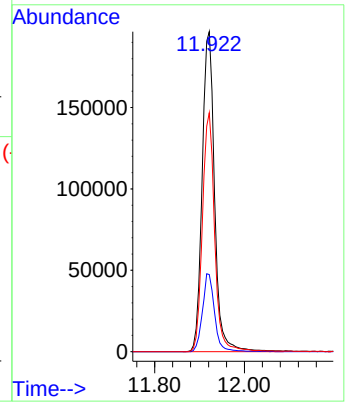




#36
4-Chloro-3-methylphenol
Concen: 76.906 ng
RT: 11.922 min Scan# 1
Delta R.T. 0.009 min
Lab File: BG058517.D
Acq: 28 Jul 2023 14:09

Tgt Ion:107 Resp: 37696

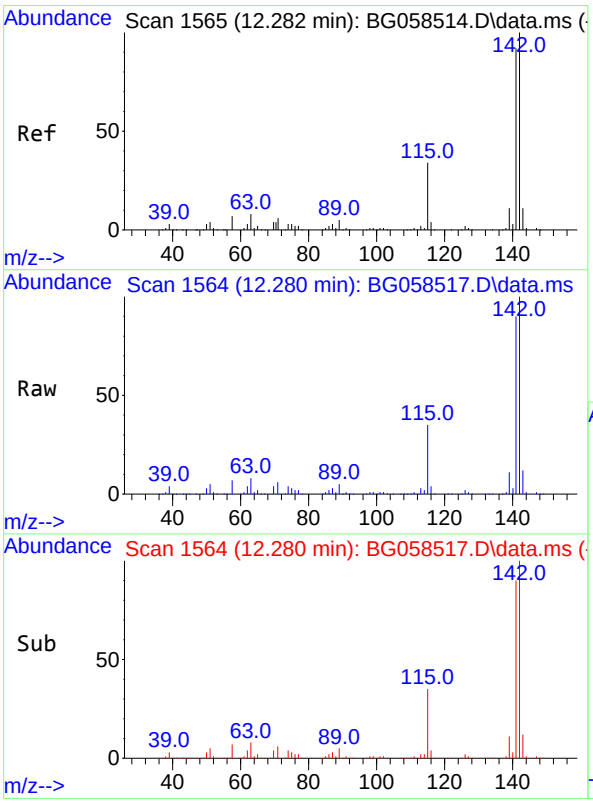
Ion	Ratio	Lower	Upper
107	100		
144	24.1	19.6	29.4
142	74.7	59.3	88.9



Instrument :
BNA_G
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

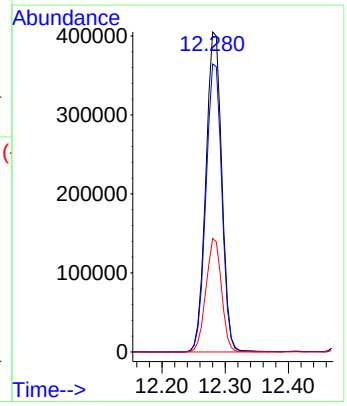
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

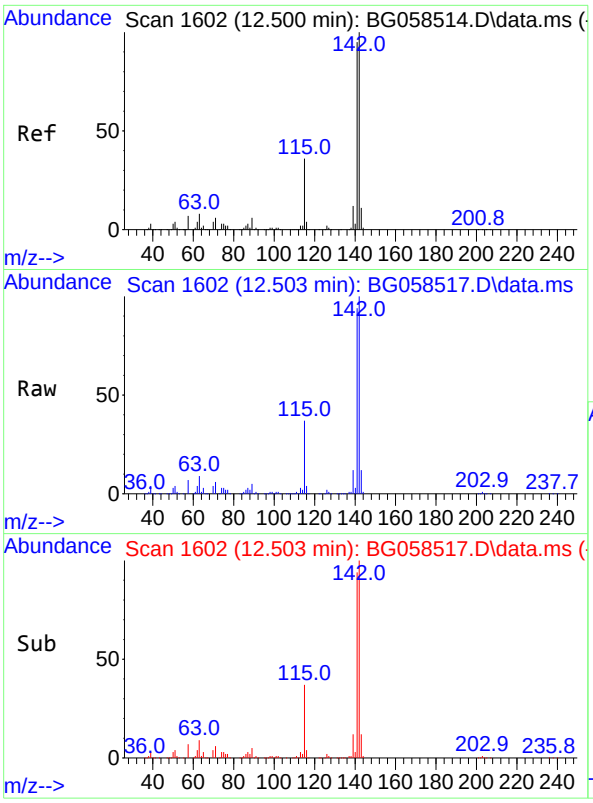


#37
2-Methylnaphthalene
Concen: 73.869 ng
RT: 12.280 min Scan# 1564
Delta R.T. -0.002 min
Lab File: BG058517.D
Acq: 28 Jul 2023 14:09

Tgt Ion:142 Resp: 711277

Ion	Ratio	Lower	Upper
142	100		
141	90.0	73.5	110.3
115	35.5	27.4	41.0

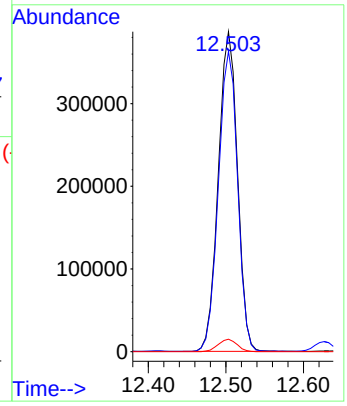




#38
1-Methylnaphthalene
Concen: 72.478 ng
RT: 12.503 min Scan# 1
Delta R.T. 0.004 min
Lab File: BG058517.D
Acq: 28 Jul 2023 14:09

Tgt Ion:142 Resp: 66339

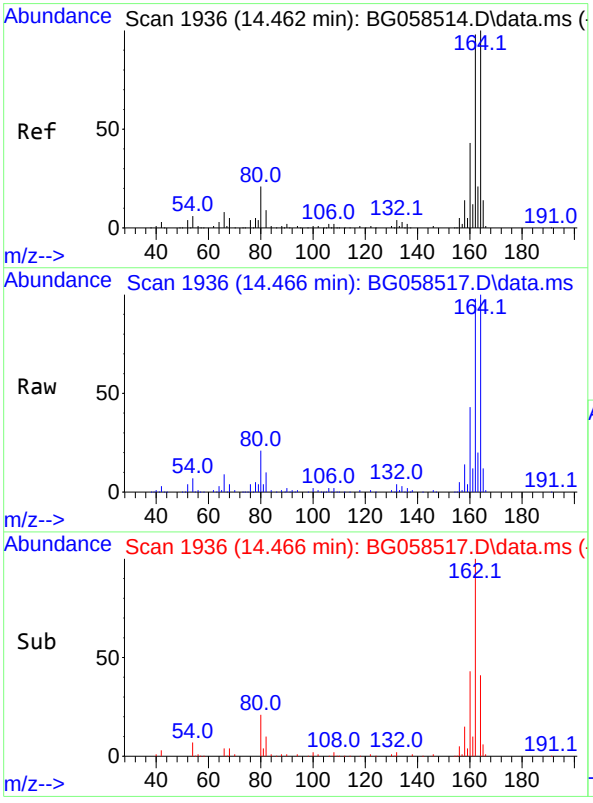
Ion	Ratio	Lower	Upper
142	100		
141	93.8	75.7	113.5
116	3.9	3.2	4.8



Instrument :
BNA_G
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

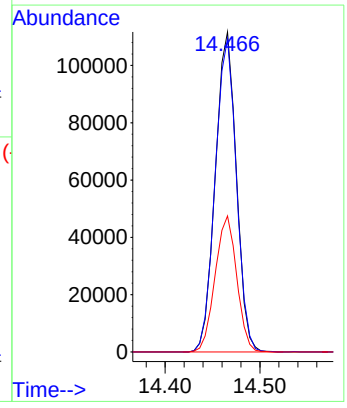
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

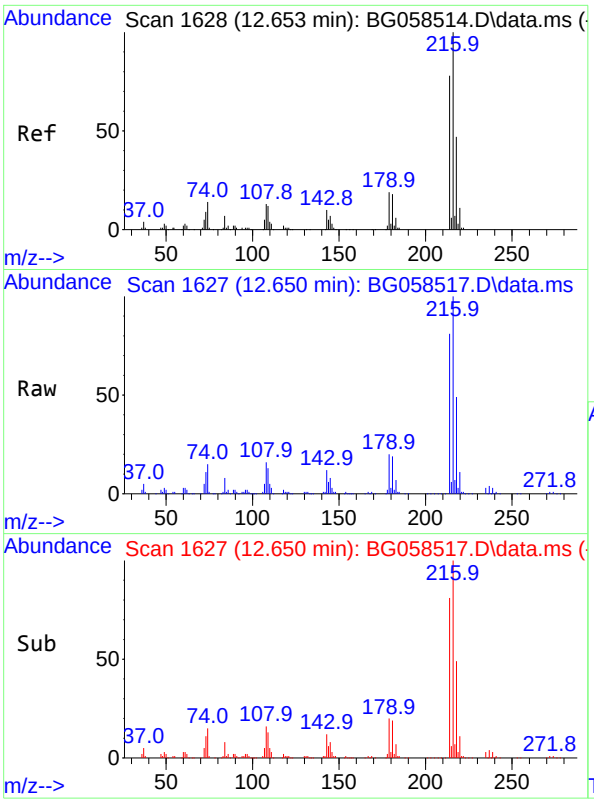


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.466 min Scan# 1936
Delta R.T. 0.003 min
Lab File: BG058517.D
Acq: 28 Jul 2023 14:09

Tgt Ion:164 Resp: 171964

Ion	Ratio	Lower	Upper
164	100		
162	97.9	78.3	117.5
160	42.5	34.1	51.1

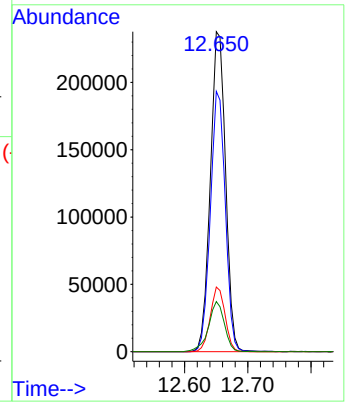




#40
1,2,4,5-Tetrachlorobenzene
Concen: 75.227 ng
RT: 12.650 min Scan# 1
Delta R.T. -0.002 min
Lab File: BG058517.D
Acq: 28 Jul 2023 14:09

Tgt Ion:216 Resp: 39716

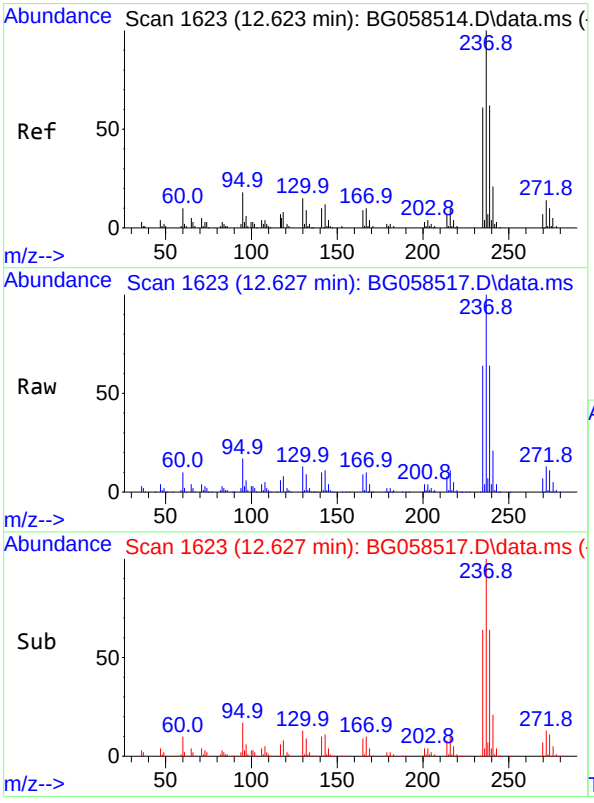
Ion	Ratio	Lower	Upper
216	100		
214	79.7	63.1	94.7
179	19.6	15.6	23.4
108	16.4	12.7	19.1



Instrument :
BNA_G
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

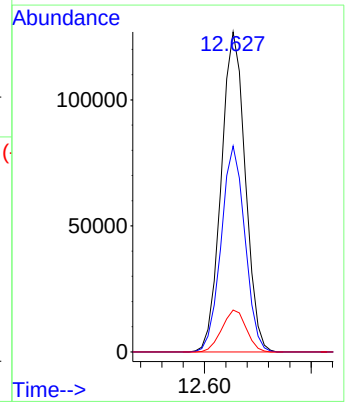
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

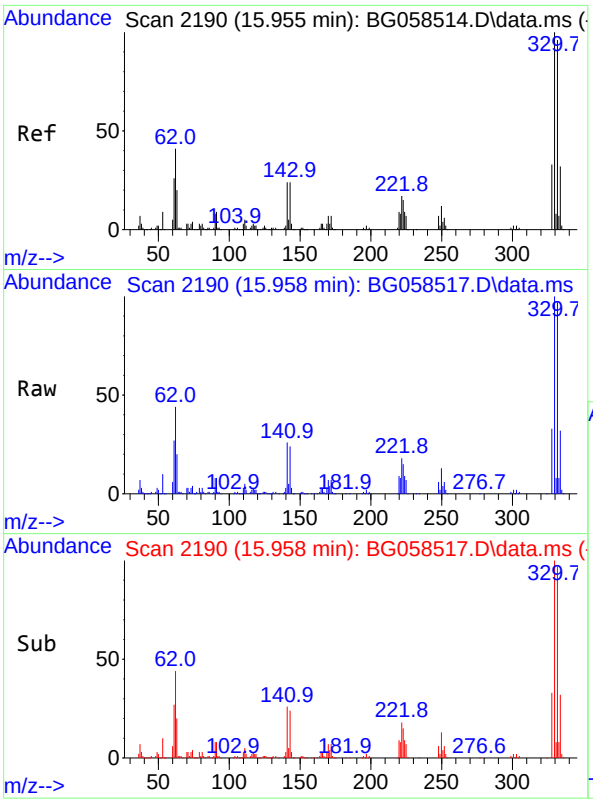


#41
Hexachlorocyclopentadiene
Concen: 80.870 ng
RT: 12.627 min Scan# 1623
Delta R.T. 0.004 min
Lab File: BG058517.D
Acq: 28 Jul 2023 14:09

Tgt Ion:237 Resp: 198505

Ion	Ratio	Lower	Upper
237	100		
235	64.4	41.0	81.0
272	13.1	0.0	33.6

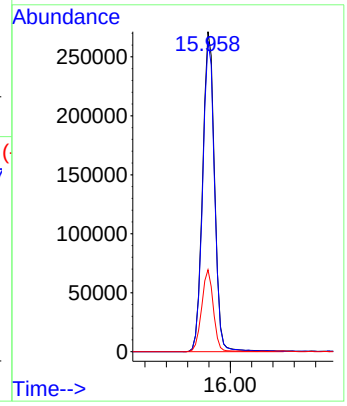




#42
2,4,6-Tribromophenol
Concen: 149.335 ng
RT: 15.958 min Scan# 21
Delta R.T. 0.004 min
Lab File: BG058517.D
Acq: 28 Jul 2023 14:09

Tgt Ion:330 Resp: 42091

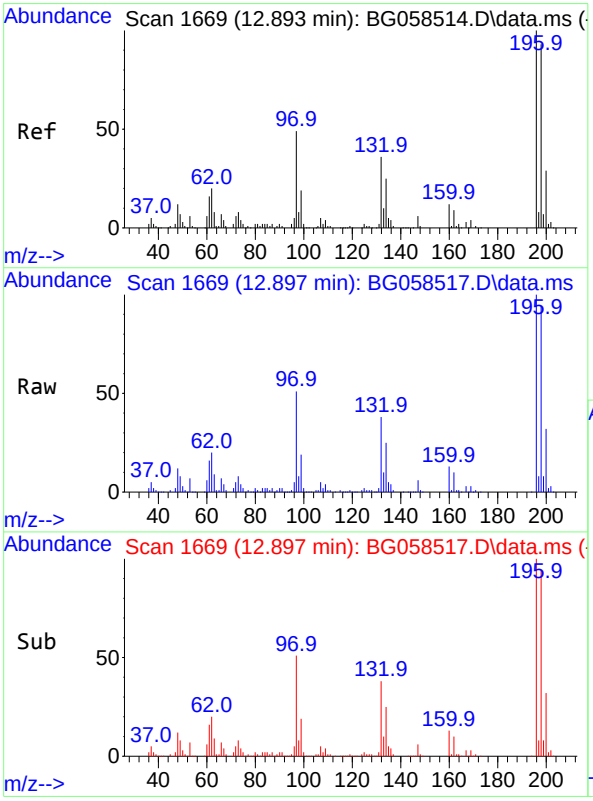
Ion	Ratio	Lower	Upper
330	100		
332	96.4	77.5	116.3
141	25.1	20.7	31.1



Instrument :
BNA_G
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

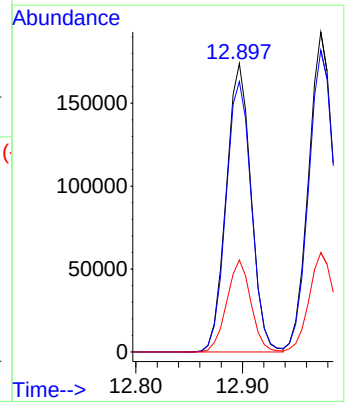
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

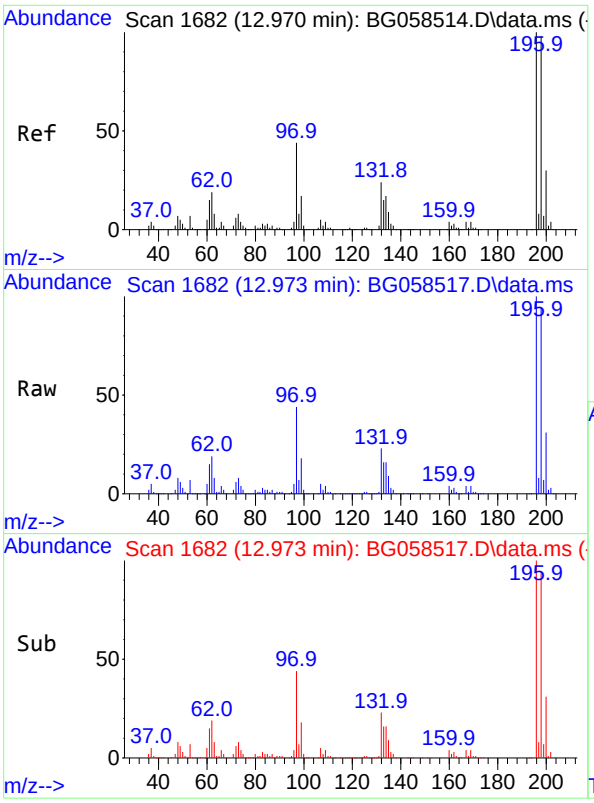


#43
2,4,6-Trichlorophenol
Concen: 77.498 ng
RT: 12.897 min Scan# 1669
Delta R.T. 0.004 min
Lab File: BG058517.D
Acq: 28 Jul 2023 14:09

Tgt Ion:196 Resp: 281416

Ion	Ratio	Lower	Upper
196	100		
198	93.7	74.2	111.4
200	31.9	22.9	34.3

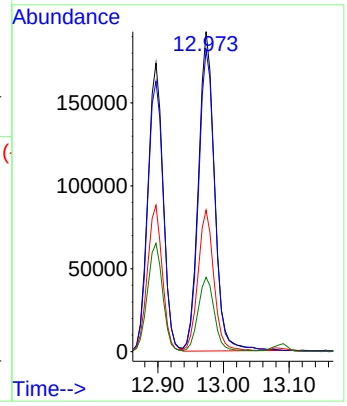




#44
2,4,5-Trichlorophenol
Concen: 77.059 ng
RT: 12.973 min Scan# 1
Delta R.T. 0.004 min
Lab File: BG058517.D
Acq: 28 Jul 2023 14:09

Tgt Ion:196 Resp: 32959

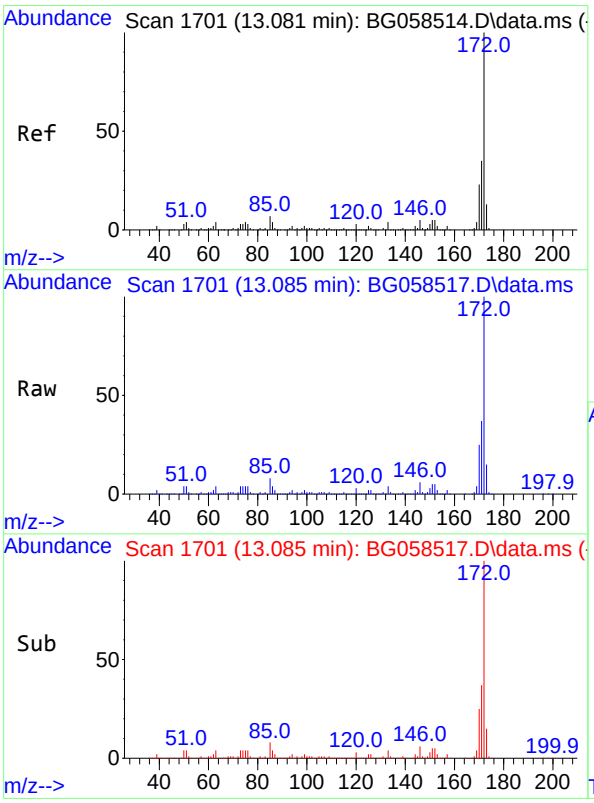
Ion	Ratio	Lower	Upper
196	100		
198	94.3	78.3	117.5
97	44.3	35.2	52.8
132	23.2	19.4	29.0



Instrument :
BNA_G
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

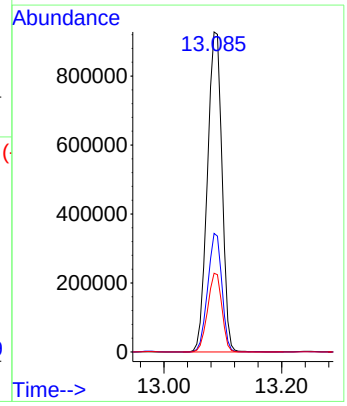
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

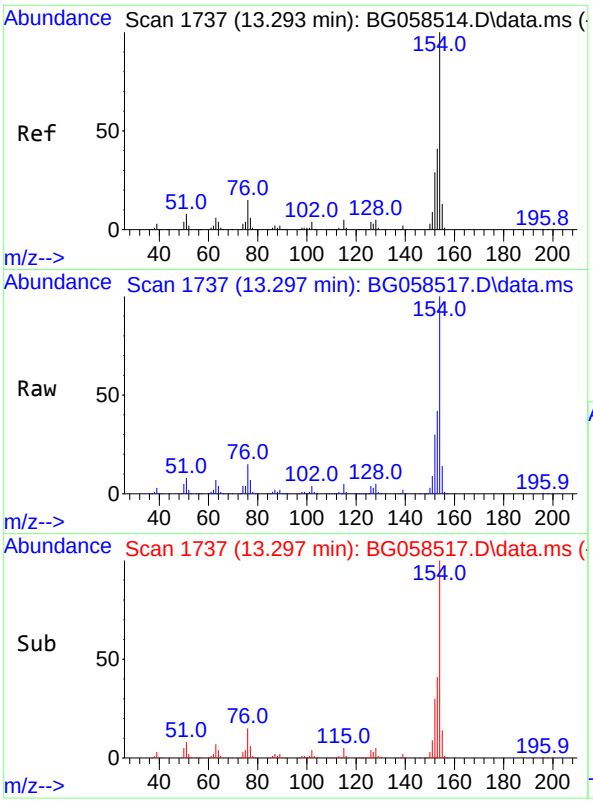


#45
2-Fluorobiphenyl
Concen: 139.437 ng
RT: 13.085 min Scan# 1701
Delta R.T. 0.004 min
Lab File: BG058517.D
Acq: 28 Jul 2023 14:09

Tgt Ion:172 Resp: 1600047

Ion	Ratio	Lower	Upper
172	100		
171	37.1	28.0	42.0
170	24.6	18.4	27.6

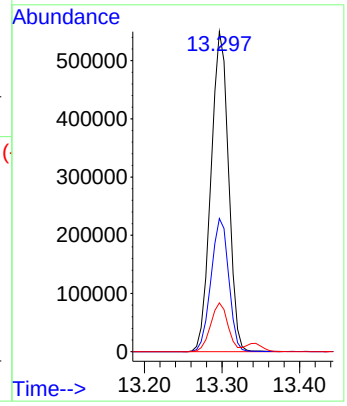




#46
1,1'-Biphenyl
Concen: 73.288 ng
RT: 13.297 min Scan# 1
Delta R.T. 0.004 min
Lab File: BG058517.D
Acq: 28 Jul 2023 14:09

Tgt Ion:154 Resp: 86550

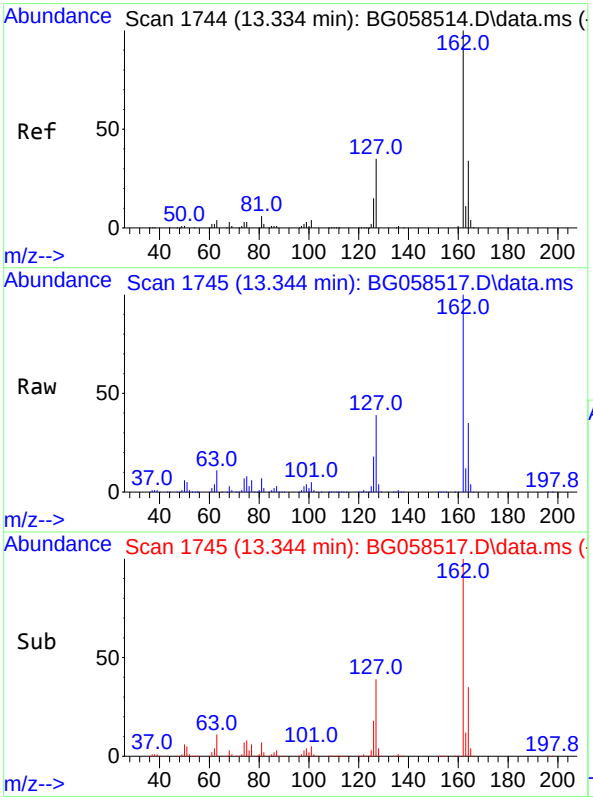
Ion	Ratio	Lower	Upper
154	100		
153	41.6	21.2	61.2
76	15.3	0.0	34.7



Instrument :
BNA_G
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

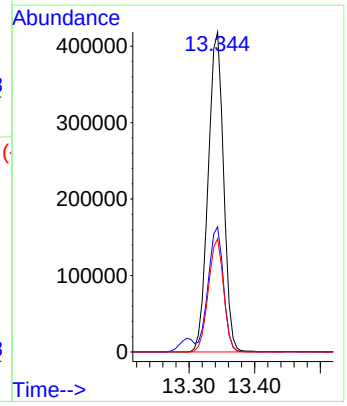
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

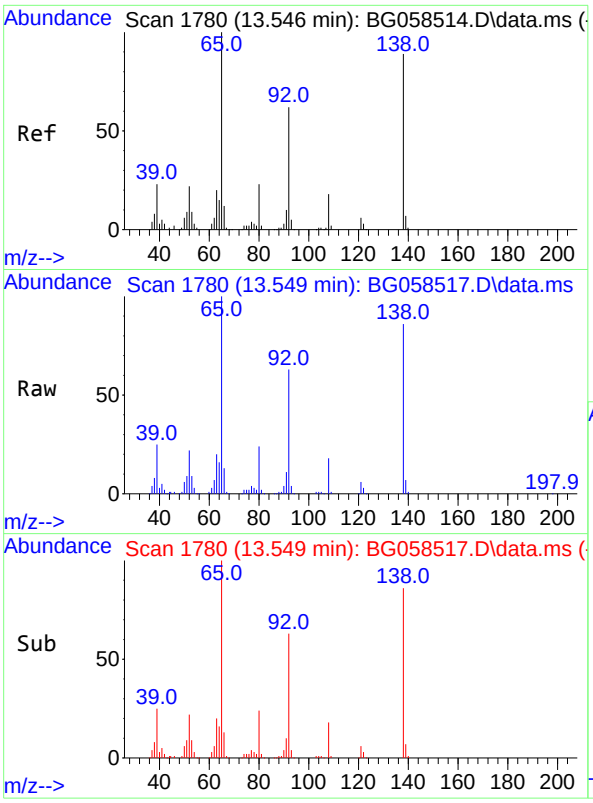


#47
2-Chloronaphthalene
Concen: 74.441 ng
RT: 13.344 min Scan# 1745
Delta R.T. 0.009 min
Lab File: BG058517.D
Acq: 28 Jul 2023 14:09

Tgt Ion:162 Resp: 685458

Ion	Ratio	Lower	Upper
162	100		
127	39.1	30.9	46.3
164	35.4	27.2	40.8

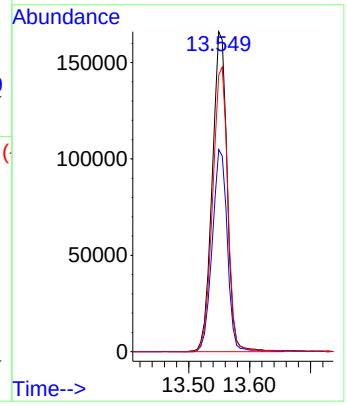




#48
2-Nitroaniline
Concen: 80.514 ng
RT: 13.549 min Scan# 1
Delta R.T. 0.004 min
Lab File: BG058517.D
Acq: 28 Jul 2023 14:09

Tgt Ion: 65 Resp: 28297

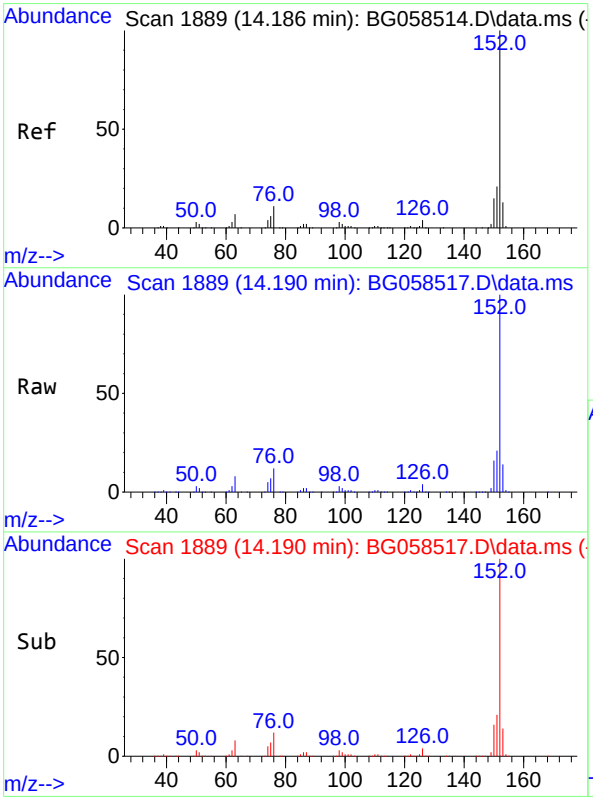
Ion	Ratio	Lower	Upper
65	100		
92	63.1	49.2	73.8
138	86.4	71.5	107.3



Instrument :
BNA_G
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

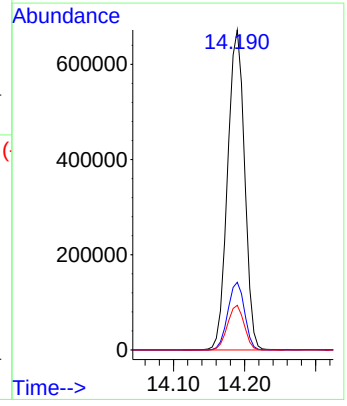
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

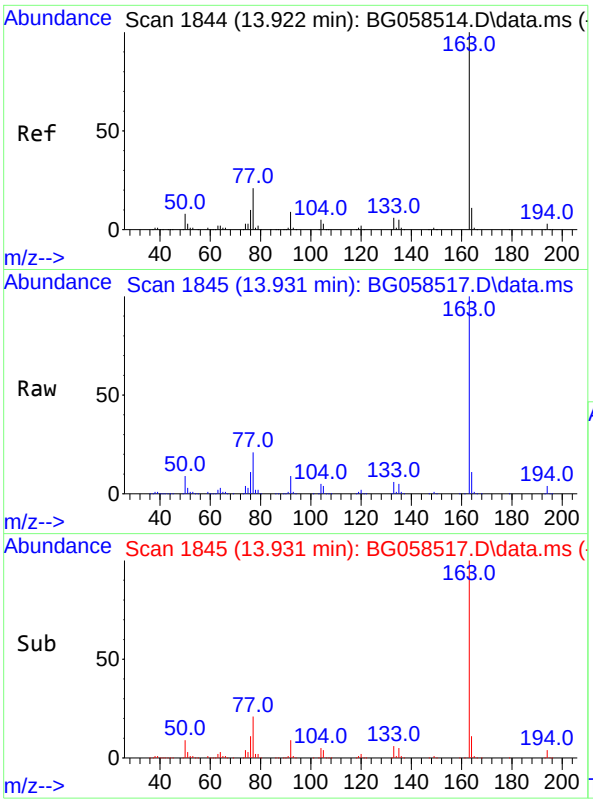


#49
Acenaphthylene
Concen: 72.047 ng
RT: 14.190 min Scan# 1889
Delta R.T. 0.004 min
Lab File: BG058517.D
Acq: 28 Jul 2023 14:09

Tgt Ion:152 Resp: 1110706

Ion	Ratio	Lower	Upper
152	100		
151	21.2	16.5	24.7
153	13.9	10.7	16.1

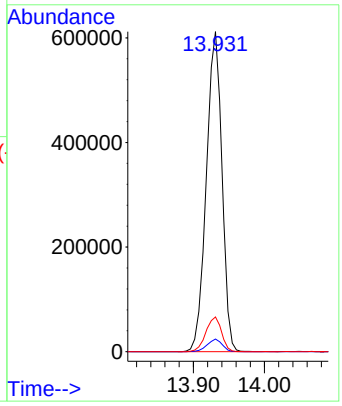




#50
Dimethylphthalate
Concen: 72.538 ng
RT: 13.931 min Scan# 1
Delta R.T. 0.009 min
Lab File: BG058517.D
Acq: 28 Jul 2023 14:09

Tgt Ion:163 Resp: 93681

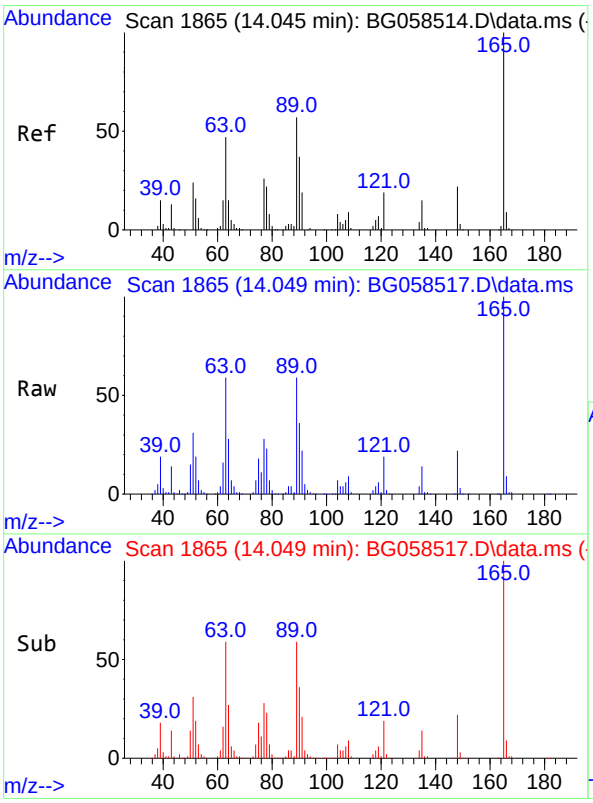
Ion	Ratio	Lower	Upper
163	100		
194	4.0	2.7	4.1
164	10.9	8.6	12.8



Instrument :
BNA_G
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

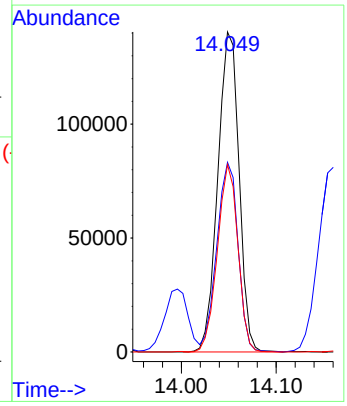
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

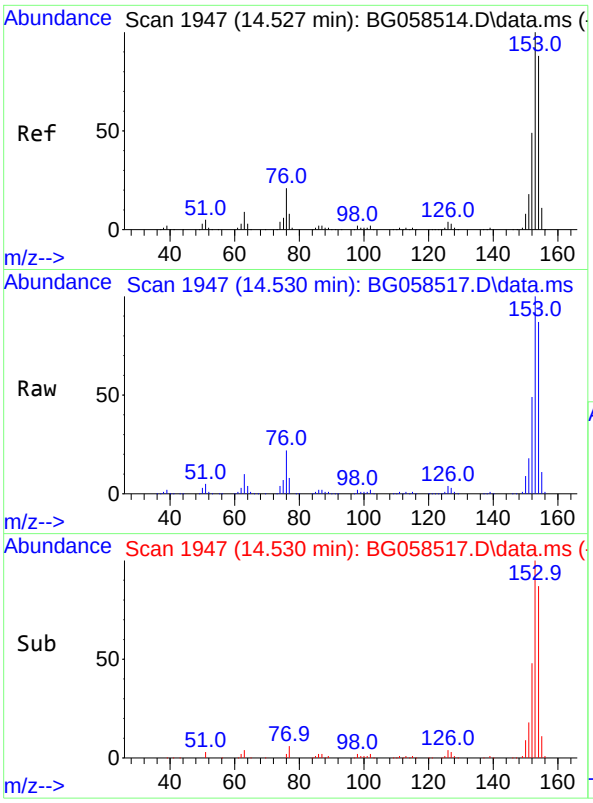


#51
2,6-Dinitrotoluene
Concen: 77.047 ng
RT: 14.049 min Scan# 1865
Delta R.T. 0.003 min
Lab File: BG058517.D
Acq: 28 Jul 2023 14:09

Tgt Ion:165 Resp: 218333

Ion	Ratio	Lower	Upper
165	100		
63	59.2	46.4	69.6
89	58.5	45.3	67.9

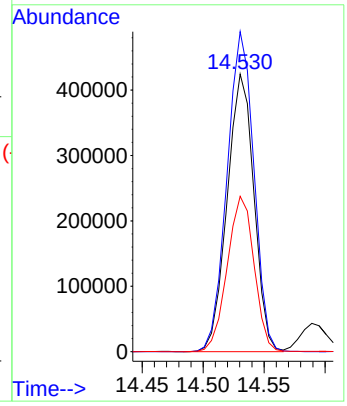




#52
Acenaphthene
Concen: 72.734 ng
RT: 14.530 min Scan# 1
Delta R.T. 0.004 min
Lab File: BG058517.D
Acq: 28 Jul 2023 14:09

Tgt Ion:154 Resp: 64790

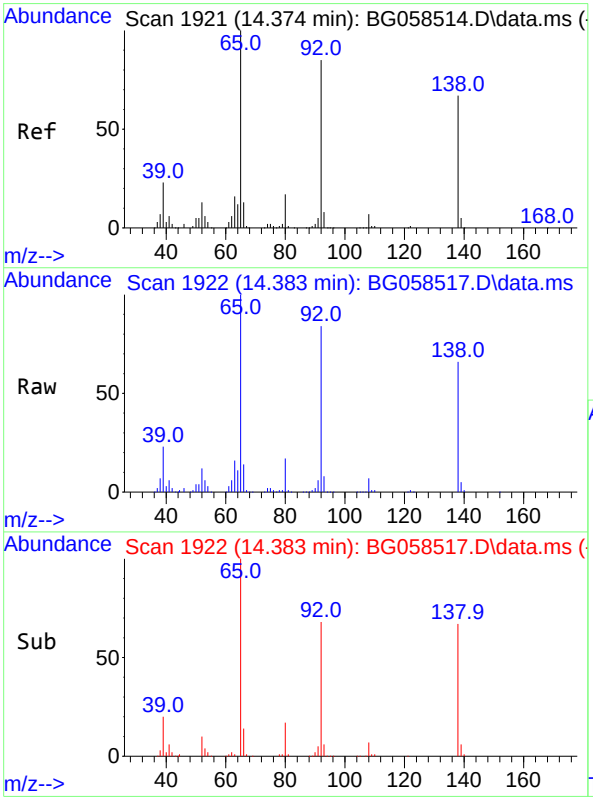
Ion	Ratio	Lower	Upper
154	100		
153	115.3	91.1	136.7
152	56.0	44.6	66.8



Instrument :
BNA_G
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

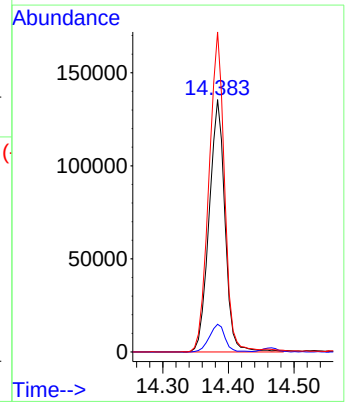
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

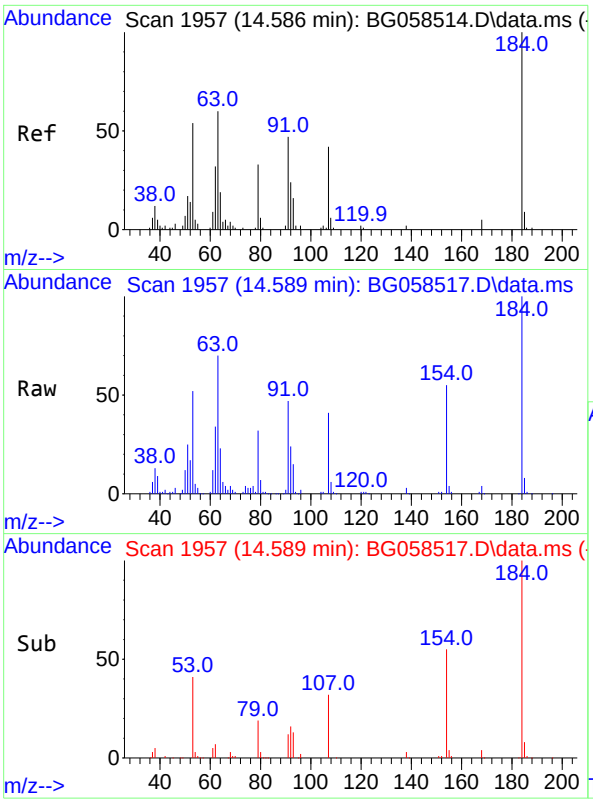


#53
3-Nitroaniline
Concen: 80.265 ng
RT: 14.383 min Scan# 1922
Delta R.T. 0.009 min
Lab File: BG058517.D
Acq: 28 Jul 2023 14:09

Tgt Ion:138 Resp: 227564

Ion	Ratio	Lower	Upper
138	100		
108	11.0	8.3	12.5
92	126.8	101.1	151.7

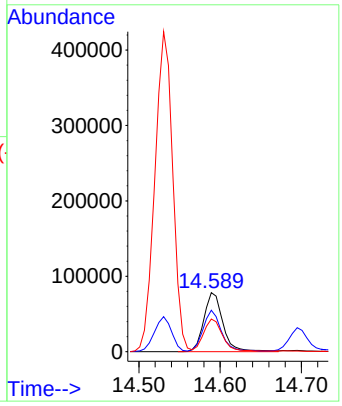




#54
2,4-Dinitrophenol
Concen: 79.774 ng
RT: 14.589 min Scan# 1
Delta R.T. 0.003 min
Lab File: BG058517.D
Acq: 28 Jul 2023 14:09

Tgt Ion:184 Resp: 12739

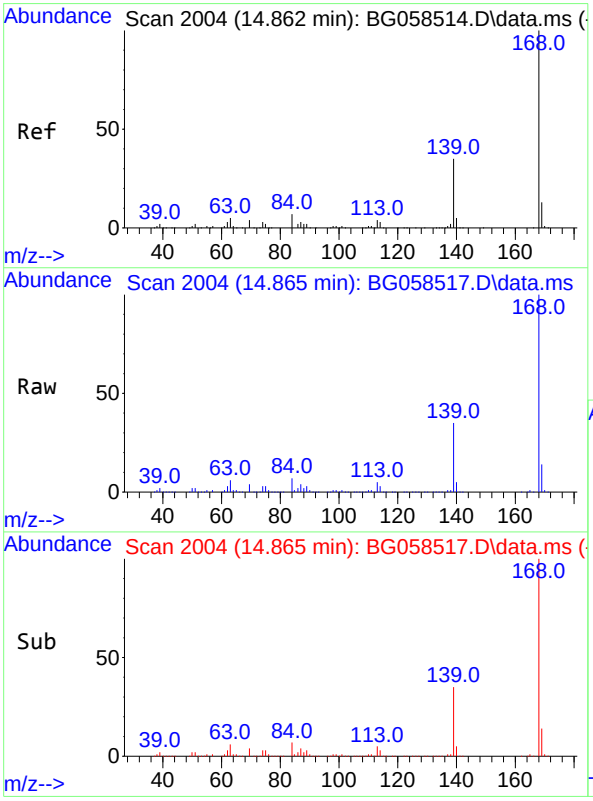
Ion	Ratio	Lower	Upper
184	100		
63	70.1	56.7	85.1
154	55.4	46.1	69.1



Instrument :
BNA_G
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

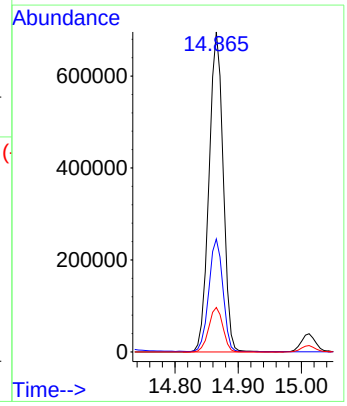
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

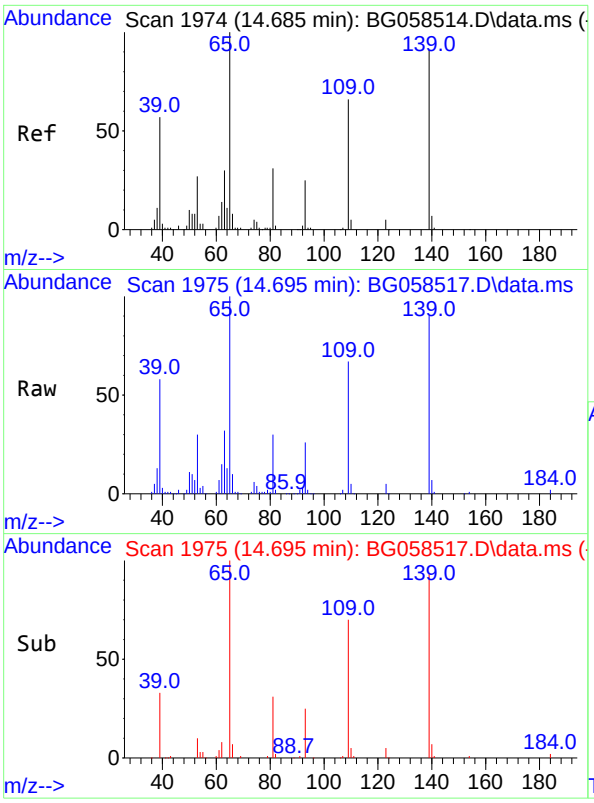


#55
Dibenzofuran
Concen: 70.839 ng
RT: 14.865 min Scan# 2004
Delta R.T. 0.004 min
Lab File: BG058517.D
Acq: 28 Jul 2023 14:09

Tgt Ion:168 Resp: 1084299

Ion	Ratio	Lower	Upper
168	100		
139	35.3	27.8	41.8
169	13.9	10.6	16.0

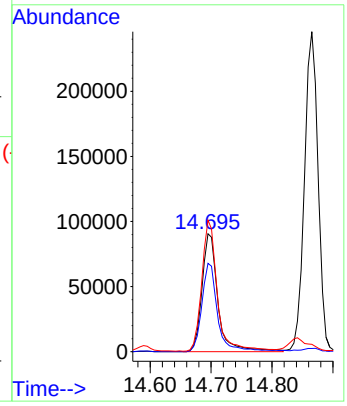




#56
4-Nitrophenol
Concen: 78.301 ng
RT: 14.695 min Scan# 1
Delta R.T. 0.010 min
Lab File: BG058517.D
Acq: 28 Jul 2023 14:09

Tgt Ion:139 Resp: 16463

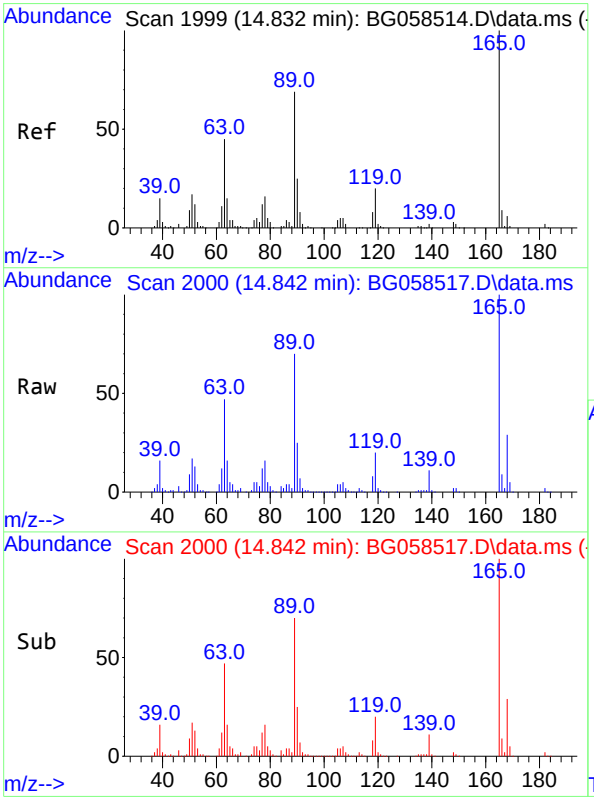
Ion	Ratio	Lower	Upper
139	100		
109	75.0	52.5	92.5
65	111.6	90.5	130.5



Instrument :
BNA_G
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

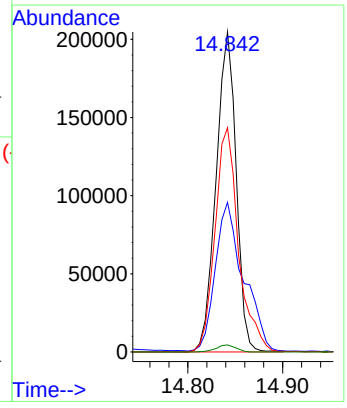
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

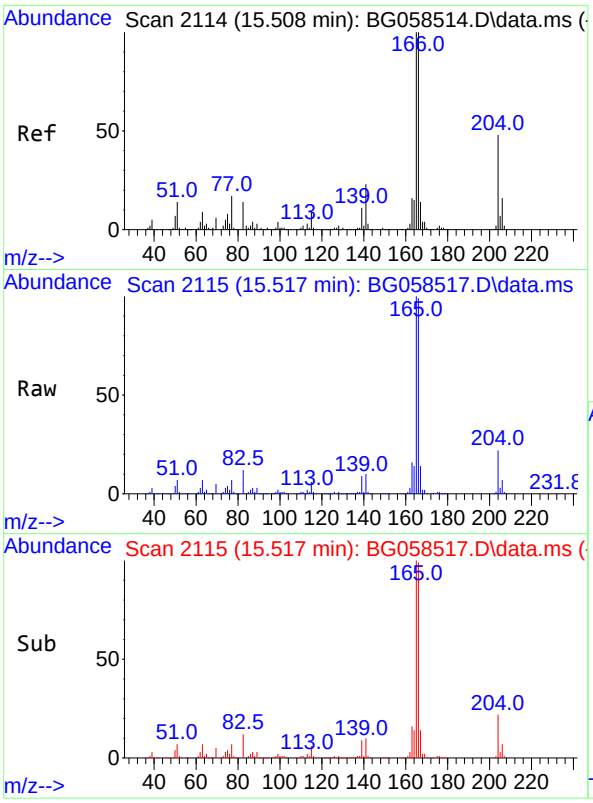


#57
2,4-Dinitrotoluene
Concen: 76.854 ng
RT: 14.842 min Scan# 2000
Delta R.T. 0.010 min
Lab File: BG058517.D
Acq: 28 Jul 2023 14:09

Tgt Ion:165 Resp: 301931

Ion	Ratio	Lower	Upper
165	100		
63	46.7	36.6	54.8
89	70.1	55.4	83.0
182	2.2	1.8	2.6

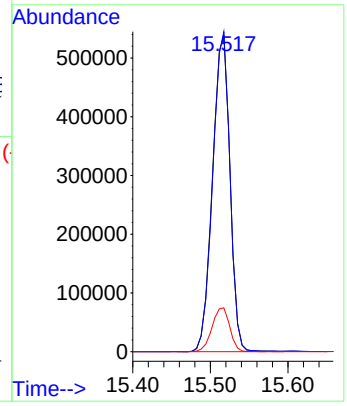




#58
Fluorene
Concen: 69.438 ng
RT: 15.517 min Scan# 2
Delta R.T. 0.009 min
Lab File: BG058517.D
Acq: 28 Jul 2023 14:09

Tgt Ion:166 Resp: 84434

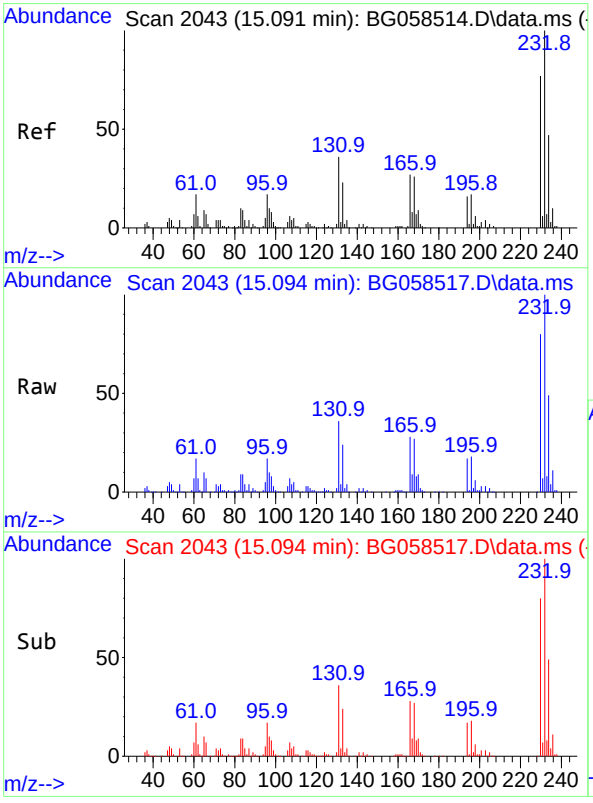
Ion	Ratio	Lower	Upper
166	100		
165	101.1	80.0	120.0
167	13.9	11.3	16.9



Instrument :
BNA_G
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

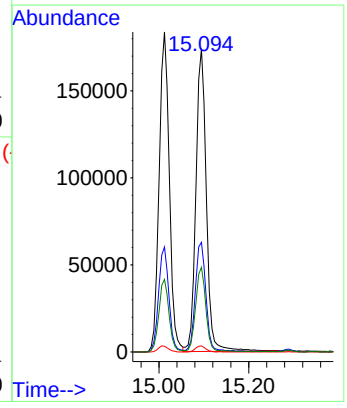
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

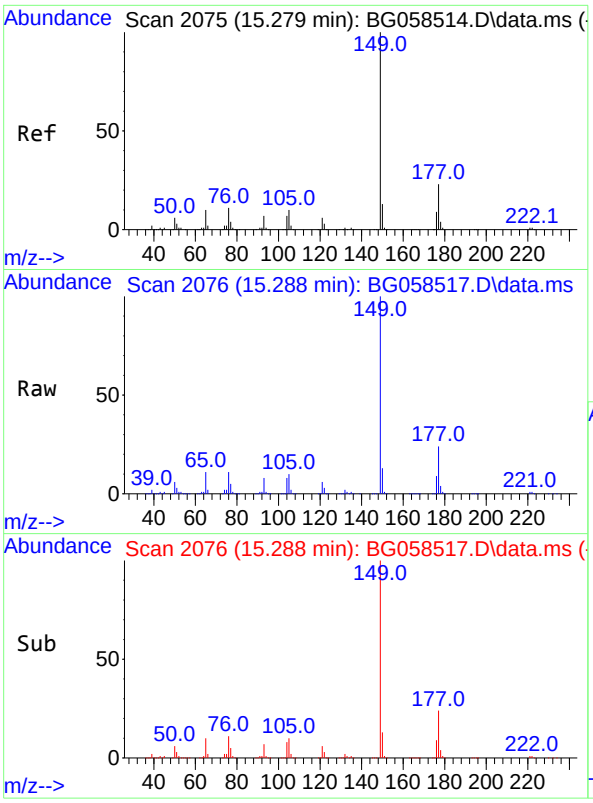


#59
2,3,4,6-Tetrachlorophenol
Concen: 76.860 ng
RT: 15.094 min Scan# 2043
Delta R.T. 0.004 min
Lab File: BG058517.D
Acq: 28 Jul 2023 14:09

Tgt Ion:232 Resp: 280518

Ion	Ratio	Lower	Upper
232	100		
131	36.0	30.0	45.0
130	1.9	1.5	2.3
166	27.2	22.8	34.2

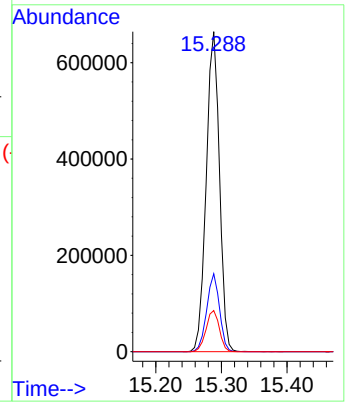




#60
Diethylphthalate
Concen: 70.840 ng
RT: 15.288 min Scan# 2
Delta R.T. 0.009 min
Lab File: BG058517.D
Acq: 28 Jul 2023 14:09

Tgt Ion:149 Resp: 93204

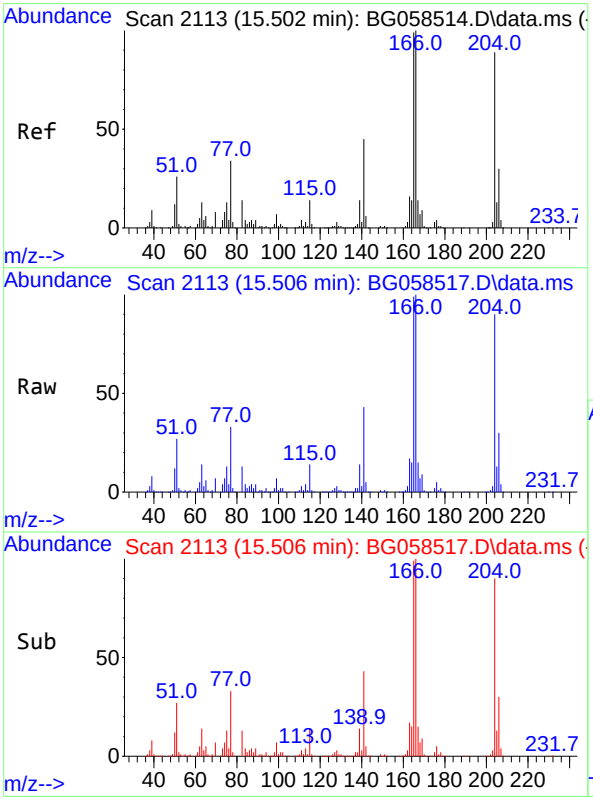
Ion	Ratio	Lower	Upper
149	100		
177	24.3	18.2	27.4
150	12.9	10.2	15.4



Instrument :
BNA_G
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

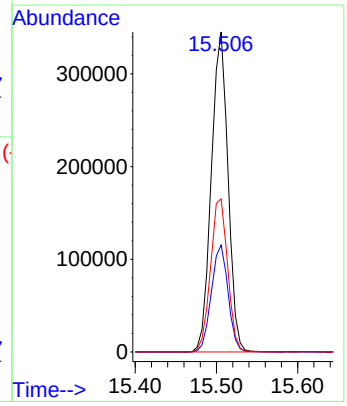
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

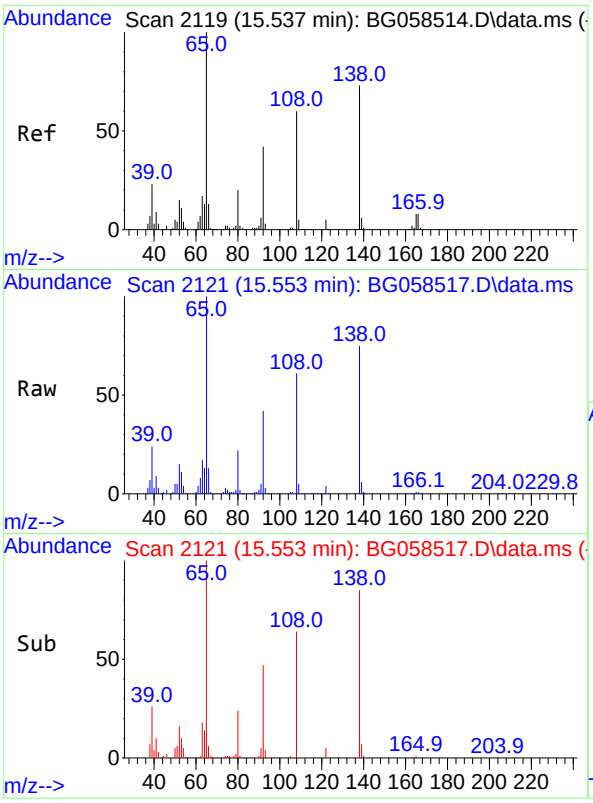


#61
4-Chlorophenyl-phenylether
Concen: 72.455 ng
RT: 15.506 min Scan# 2113
Delta R.T. 0.004 min
Lab File: BG058517.D
Acq: 28 Jul 2023 14:09

Tgt Ion:204 Resp: 491182

Ion	Ratio	Lower	Upper
204	100		
206	33.4	27.0	40.4
141	47.9	40.8	61.2

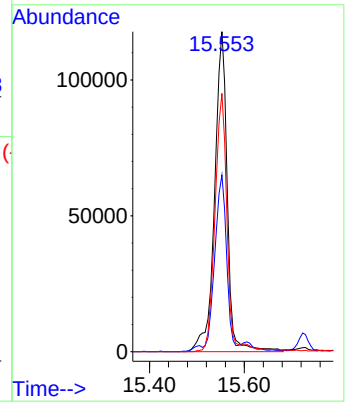




#62
4-Nitroaniline
Concen: 82.096 ng
RT: 15.553 min Scan# 2
Delta R.T. 0.015 min
Lab File: BG058517.D
Acq: 28 Jul 2023 14:09

Tgt Ion:138 Resp: 21874

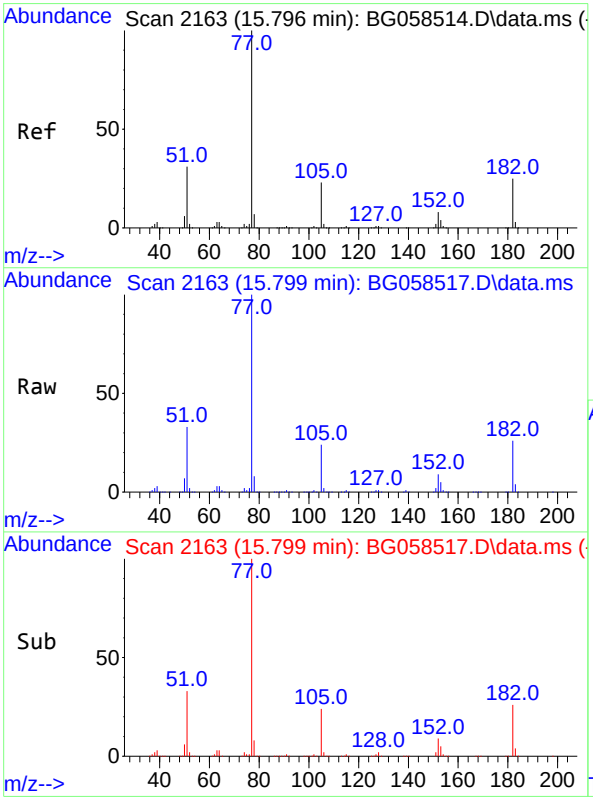
Ion	Ratio	Lower	Upper
138	100		
92	55.2	37.3	77.3
108	80.7	62.6	102.6



Instrument :
BNA_G
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

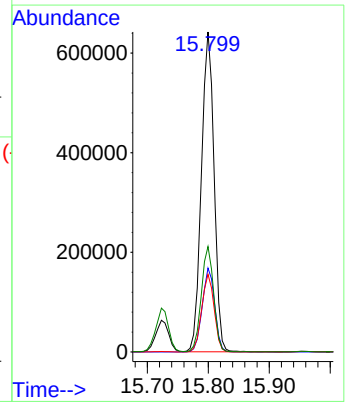
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

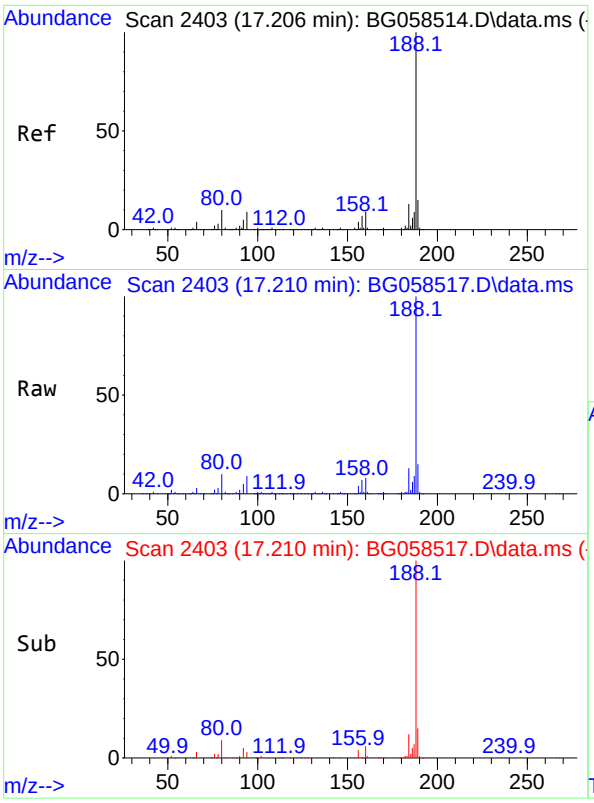


#63
Azobenzene
Concen: 71.663 ng
RT: 15.799 min Scan# 2163
Delta R.T. 0.004 min
Lab File: BG058517.D
Acq: 28 Jul 2023 14:09

Tgt Ion: 77 Resp: 928700

Ion	Ratio	Lower	Upper
77	100		
182	26.2	4.6	44.6
105	24.3	3.3	43.3
51	32.9	10.9	50.9





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.210 min Scan# 24
Delta R.T. 0.004 min
Lab File: BG058517.D
Acq: 28 Jul 2023 14:09

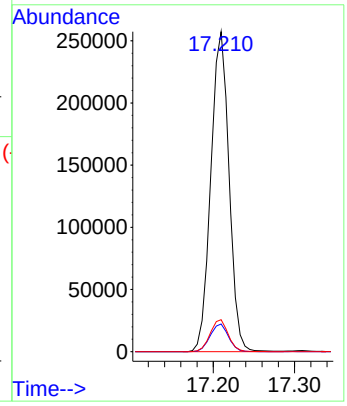
Tgt Ion:188 Resp: 39984

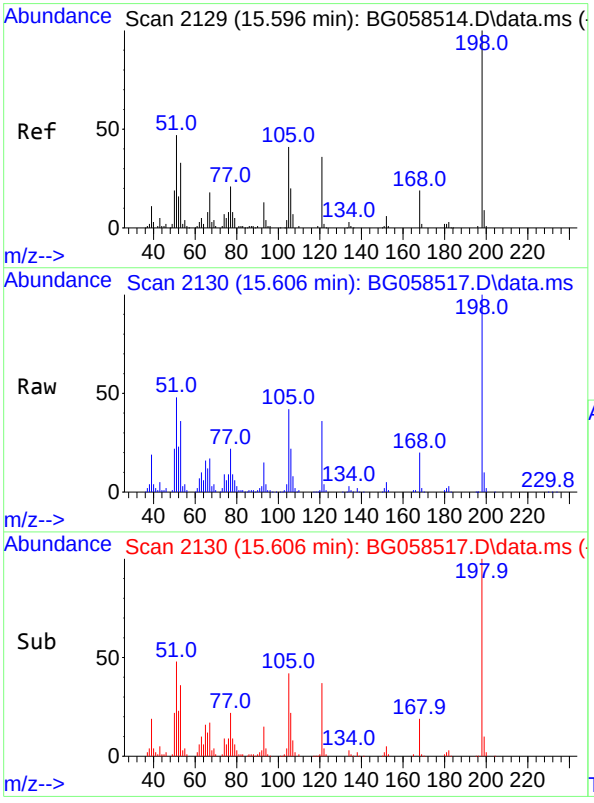
Ion	Ratio	Lower	Upper
188	100		
94	8.6	7.0	10.6
80	10.0	8.1	12.1

Instrument :
BNA_G
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

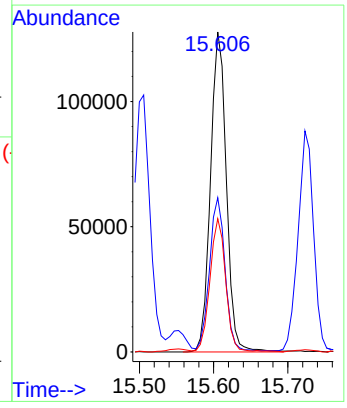


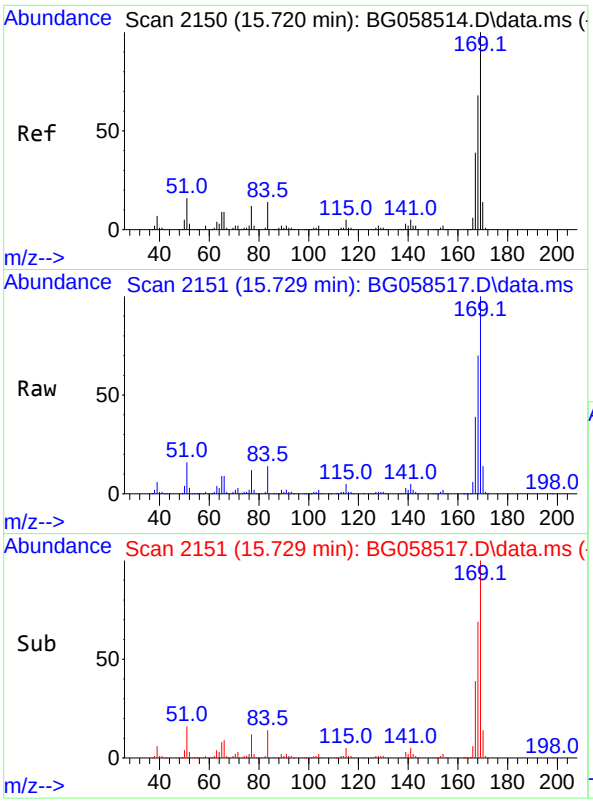


#65
4,6-Dinitro-2-methylphenol
Concen: 86.157 ng
RT: 15.606 min Scan# 2130
Delta R.T. 0.010 min
Lab File: BG058517.D
Acq: 28 Jul 2023 14:09

Tgt Ion:198 Resp: 189948

Ion	Ratio	Lower	Upper
198	100		
51	48.2	29.3	69.3
105	41.6	21.0	61.0

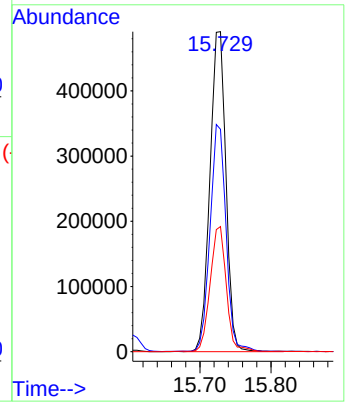




#66
n-Nitrosodiphenylamine
Concen: 73.864 ng
RT: 15.729 min Scan# 2
Delta R.T. 0.009 min
Lab File: BG058517.D
Acq: 28 Jul 2023 14:09

Tgt Ion:169 Resp: 76867

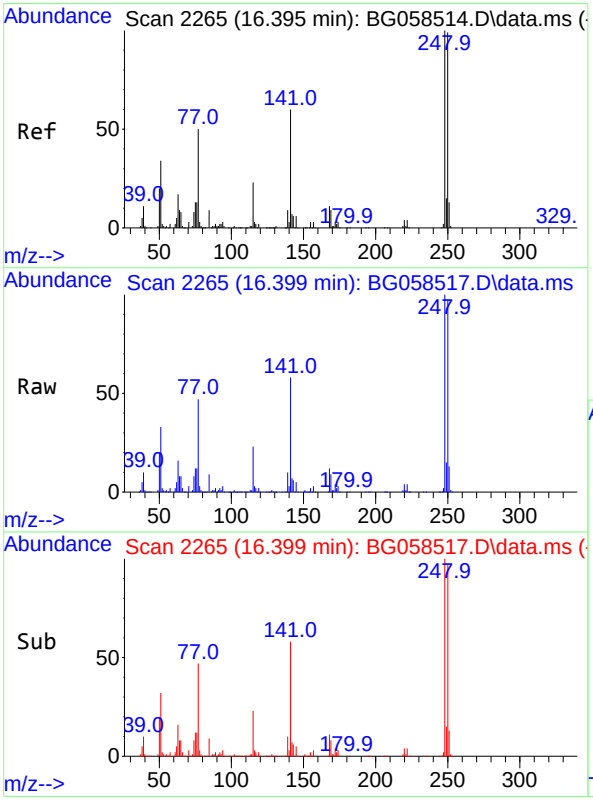
Ion	Ratio	Lower	Upper
169	100		
168	69.5	54.6	82.0
167	39.1	31.3	46.9



Instrument :
BNA_G
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

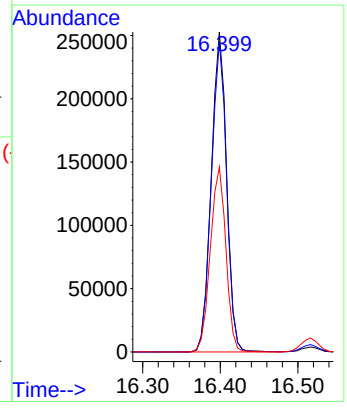
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

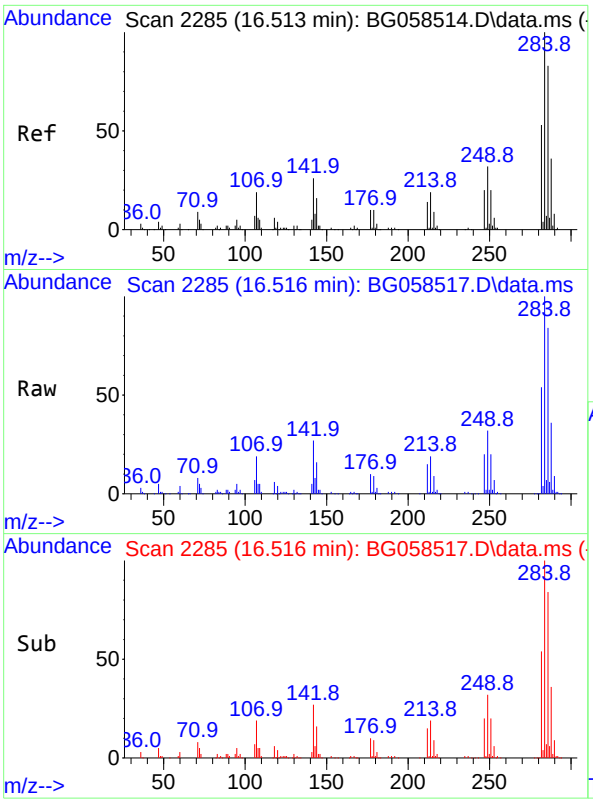


#67
4-Bromophenyl-phenylether
Concen: 76.649 ng
RT: 16.399 min Scan# 2265
Delta R.T. 0.004 min
Lab File: BG058517.D
Acq: 28 Jul 2023 14:09

Tgt Ion:248 Resp: 347605

Ion	Ratio	Lower	Upper
248	100		
250	97.1	79.5	119.3
141	57.8	48.2	72.2

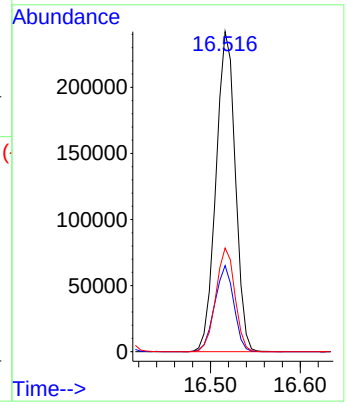




#68
Hexachlorobenzene
Concen: 75.166 ng
RT: 16.516 min Scan# 2
Delta R.T. 0.003 min
Lab File: BG058517.D
Acq: 28 Jul 2023 14:09

Tgt Ion:284 Resp: 36121

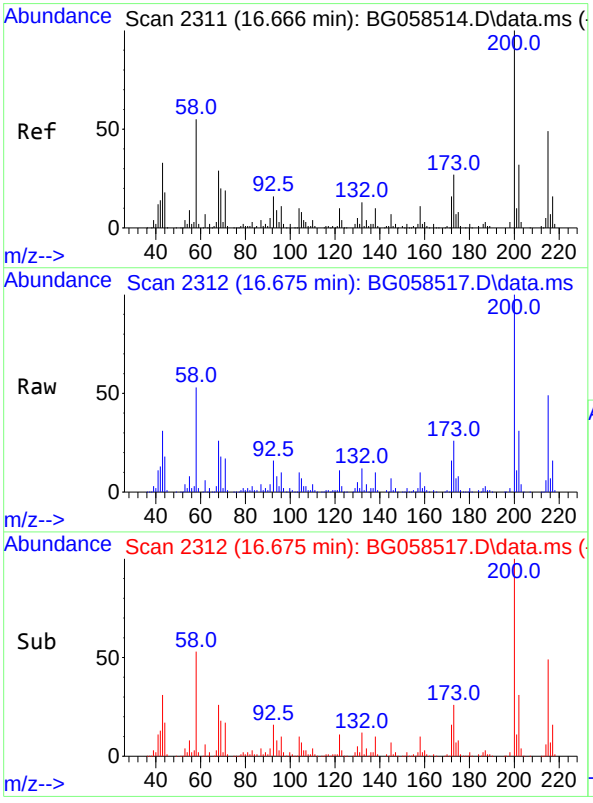
Ion	Ratio	Lower	Upper
284	100		
142	26.9	21.0	31.4
249	32.4	25.5	38.3



Instrument :
BNA_G
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

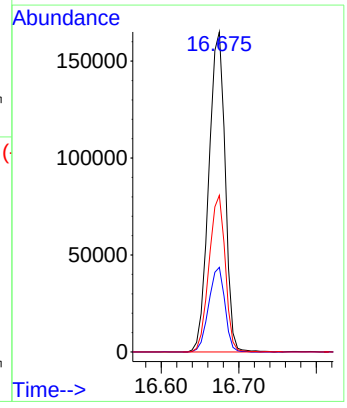
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

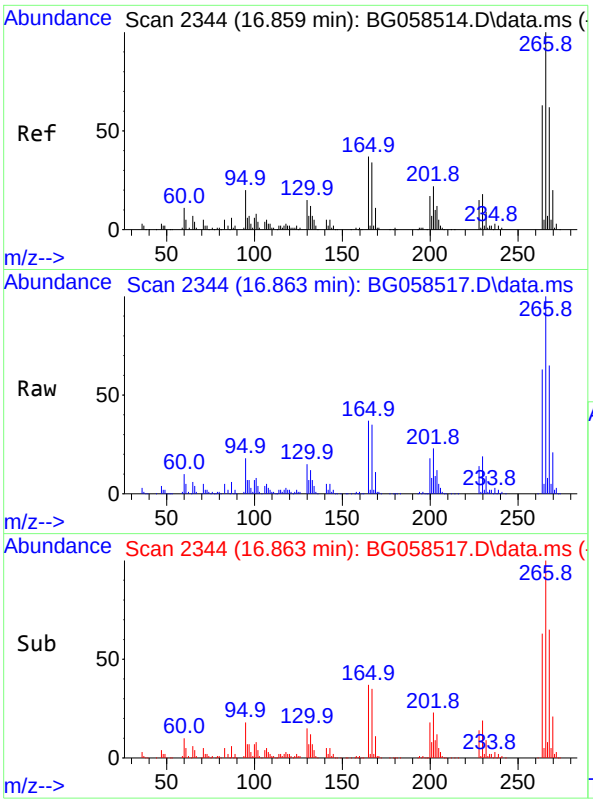


#69
Atrazine
Concen: 68.833 ng
RT: 16.675 min Scan# 2312
Delta R.T. 0.009 min
Lab File: BG058517.D
Acq: 28 Jul 2023 14:09

Tgt Ion:200 Resp: 241816

Ion	Ratio	Lower	Upper
200	100		
173	26.4	6.5	46.5
215	49.0	28.9	68.9

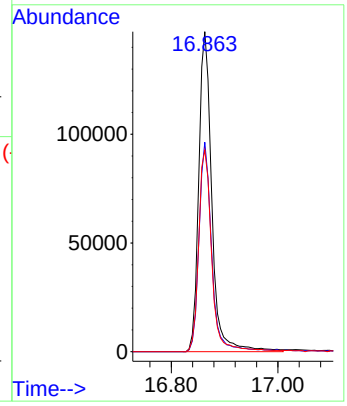




#70
Pentachlorophenol
Concen: 86.267 ng
RT: 16.863 min Scan# 2
Delta R.T. 0.004 min
Lab File: BG058517.D
Acq: 28 Jul 2023 14:09

Tgt Ion:266 Resp: 24981

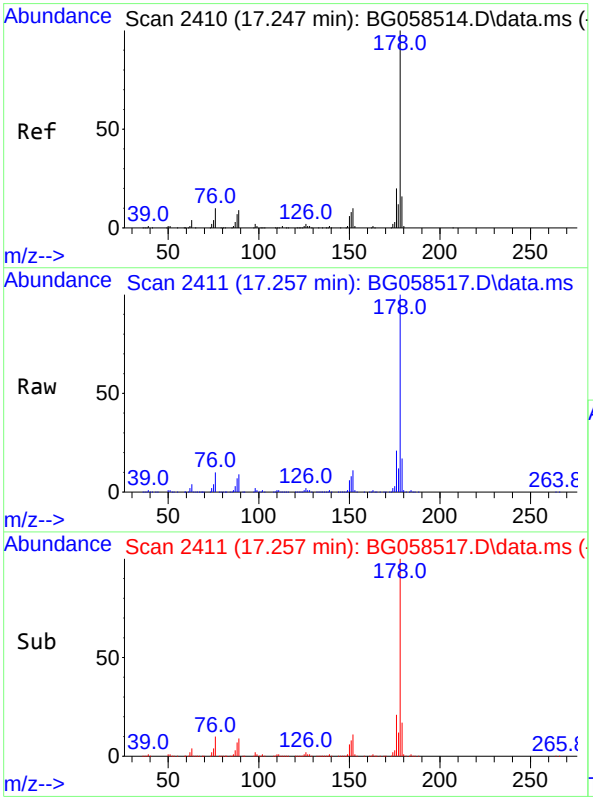
Ion	Ratio	Lower	Upper
266	100		
268	65.5	49.9	74.9
264	63.0	50.2	75.4



Instrument :
BNA_G
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

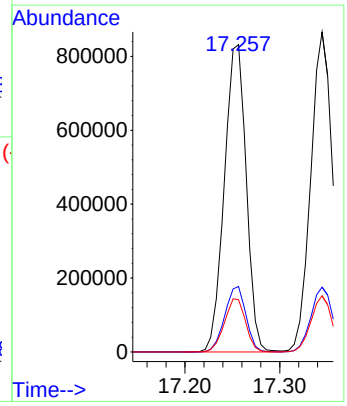
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

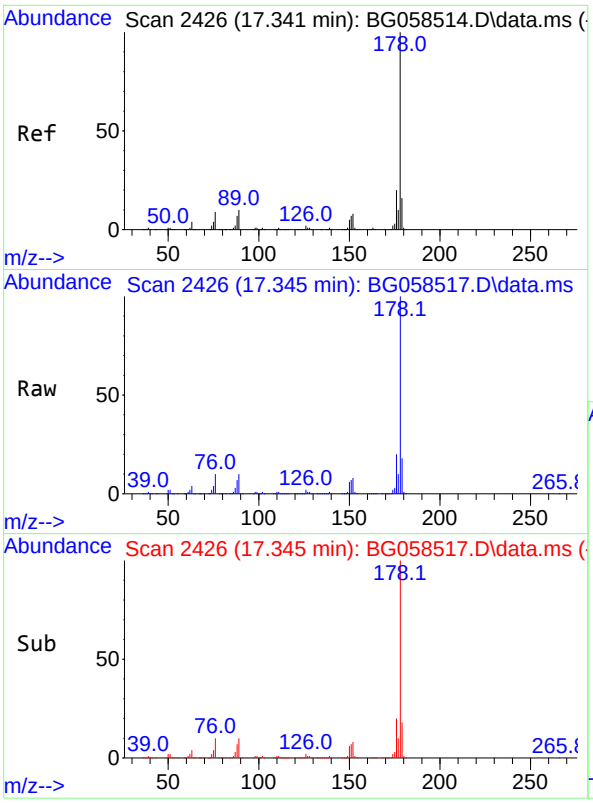


#71
Phenanthrene
Concen: 70.645 ng
RT: 17.257 min Scan# 2411
Delta R.T. 0.009 min
Lab File: BG058517.D
Acq: 28 Jul 2023 14:09

Tgt Ion:178 Resp: 1339578

Ion	Ratio	Lower	Upper
178	100		
176	21.3	16.3	24.5
179	17.0	13.1	19.7

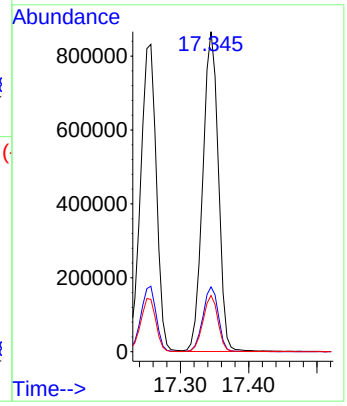




#72
Anthracene
Concen: 70.463 ng
RT: 17.345 min Scan# 24
Delta R.T. 0.004 min
Lab File: BG058517.D
Acq: 28 Jul 2023 14:09

Tgt Ion:178 Resp: 137097

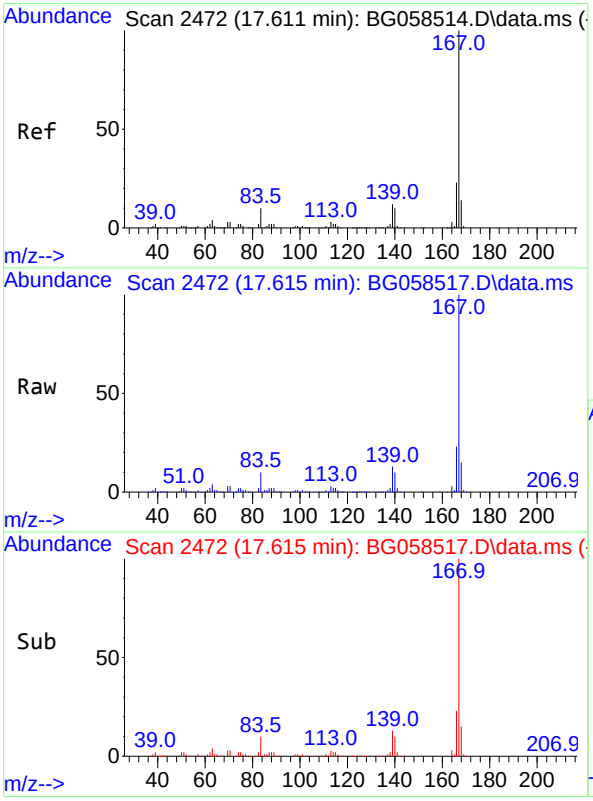
Ion	Ratio	Lower	Upper
178	100		
176	20.2	16.0	24.0
179	17.5	12.9	19.3



Instrument :
BNA_G
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

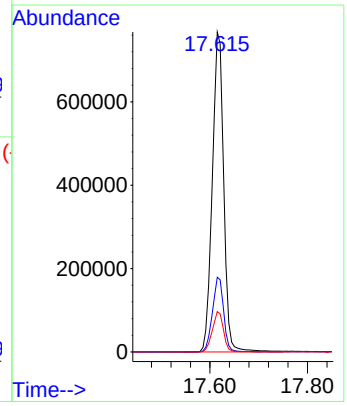
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

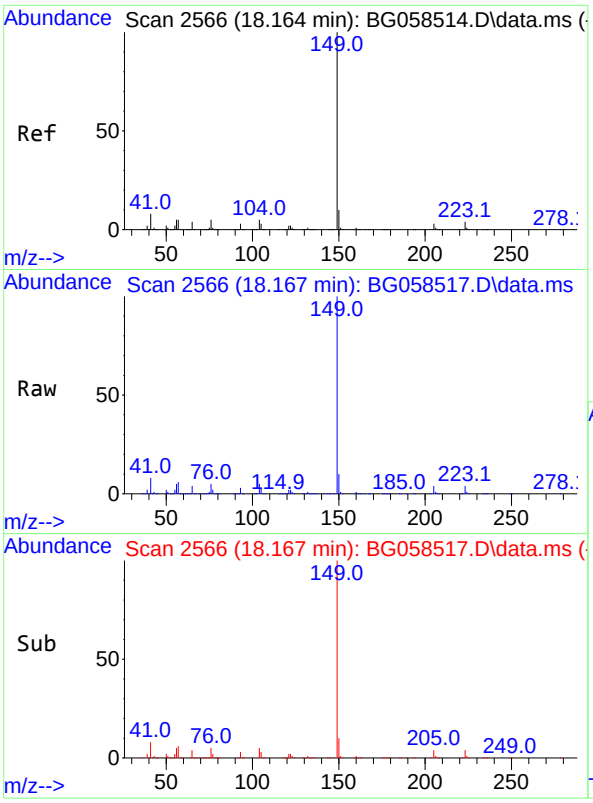


#73
Carbazole
Concen: 72.276 ng
RT: 17.615 min Scan# 2472
Delta R.T. 0.004 min
Lab File: BG058517.D
Acq: 28 Jul 2023 14:09

Tgt Ion:167 Resp: 1240073

Ion	Ratio	Lower	Upper
167	100		
166	23.4	18.4	27.6
139	12.6	10.0	15.0

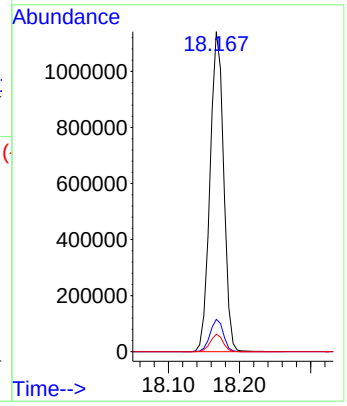




#74
Di-n-butylphthalate
Concen: 70.924 ng
RT: 18.167 min Scan# 2
Delta R.T. 0.004 min
Lab File: BG058517.D
Acq: 28 Jul 2023 14:09

Tgt Ion:149 Resp: 152419

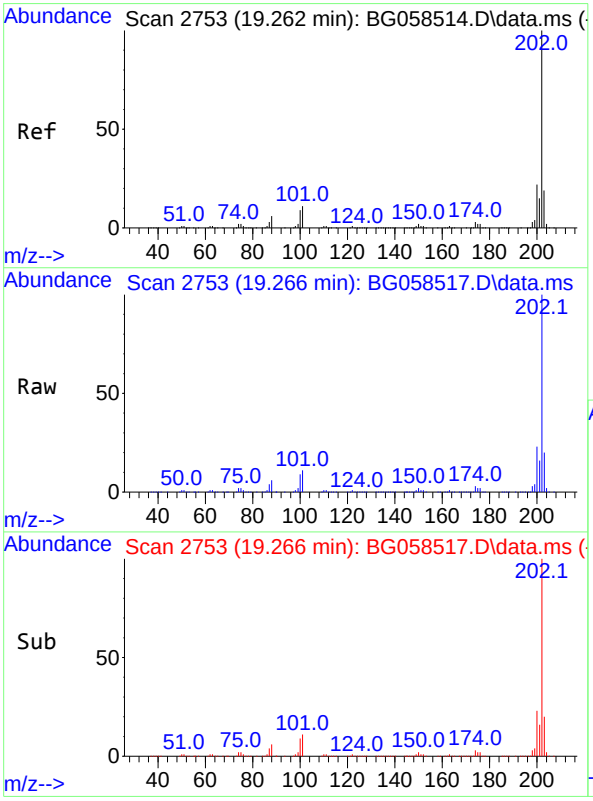
Ion	Ratio	Lower	Upper
149	100		
150	10.1	7.8	11.6
104	5.5	4.0	6.0



Instrument :
BNA_G
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

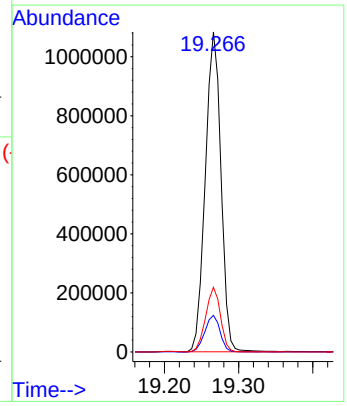
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

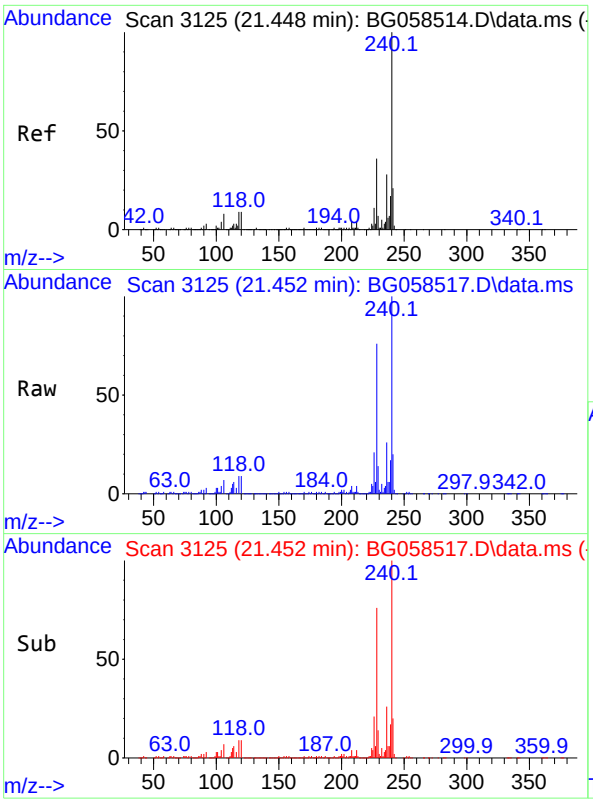


#75
Fluoranthene
Concen: 69.954 ng
RT: 19.266 min Scan# 2753
Delta R.T. 0.004 min
Lab File: BG058517.D
Acq: 28 Jul 2023 14:09

Tgt Ion:202 Resp: 1593380

Ion	Ratio	Lower	Upper
202	100		
101	11.4	0.0	31.4
203	20.2	0.0	39.0

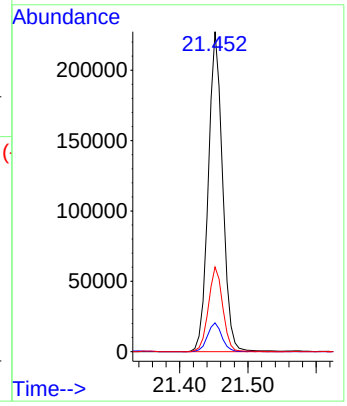




#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.452 min Scan# 3
Delta R.T. 0.004 min
Lab File: BG058517.D
Acq: 28 Jul 2023 14:09

Tgt Ion:240 Resp: 33154

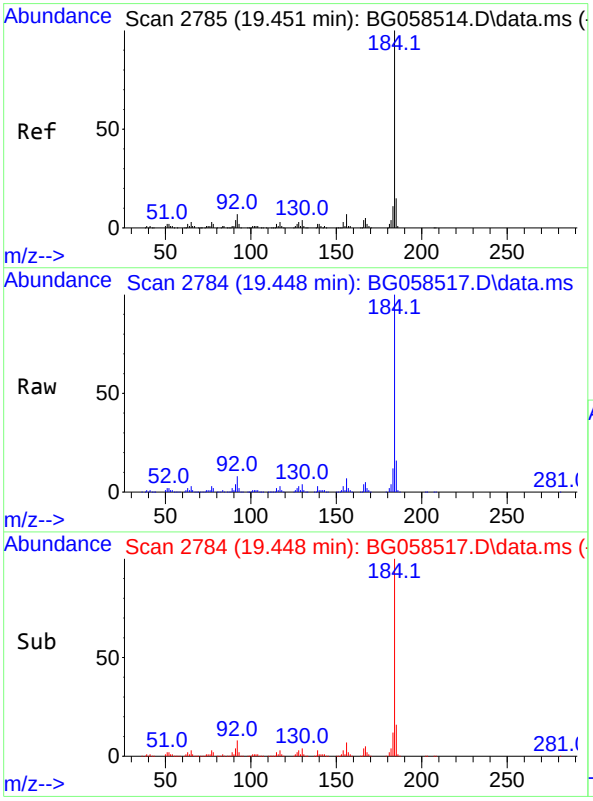
Ion	Ratio	Lower	Upper
240	100		
120	9.0	7.4	11.0
236	26.5	22.2	33.4



Instrument :
BNA_G
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

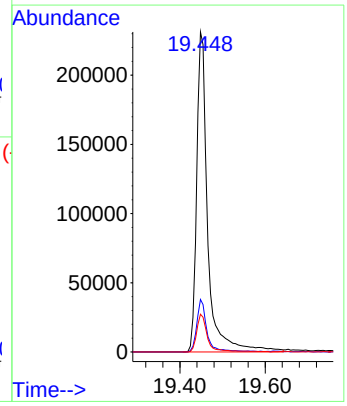
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

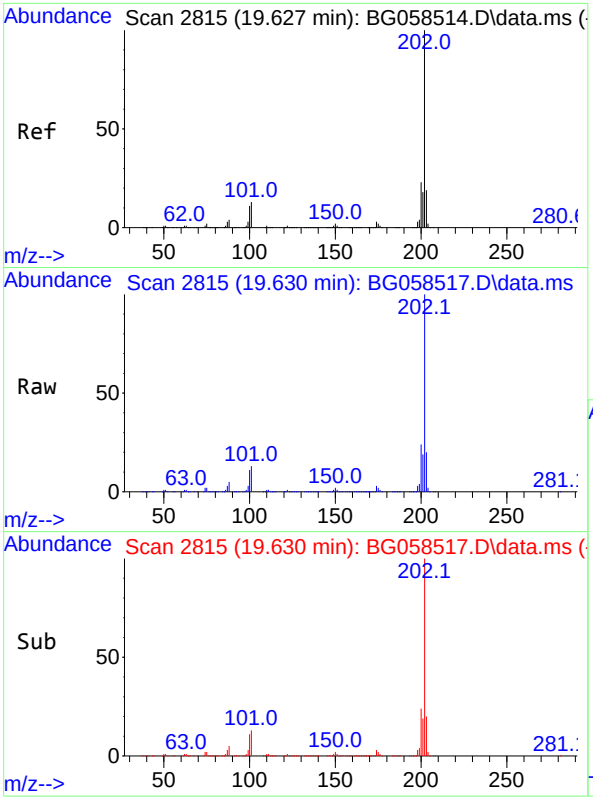


#77
Benzidine
Concen: 82.833 ng
RT: 19.448 min Scan# 2784
Delta R.T. -0.002 min
Lab File: BG058517.D
Acq: 28 Jul 2023 14:09

Tgt Ion:184 Resp: 416449

Ion	Ratio	Lower	Upper
184	100		
185	16.4	11.9	17.9
183	11.8	8.7	13.1

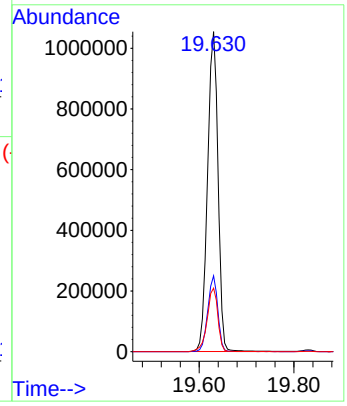




#78
Pyrene
Concen: 71.669 ng
RT: 19.630 min Scan# 2
Delta R.T. 0.004 min
Lab File: BG058517.D
Acq: 28 Jul 2023 14:09

Tgt Ion:202 Resp: 161709

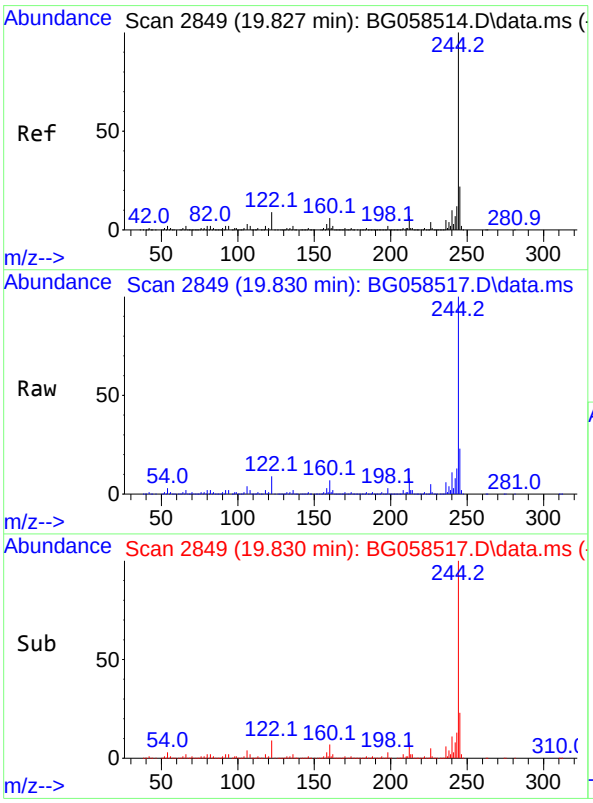
Ion	Ratio	Lower	Upper
202	100		
200	23.7	18.2	27.2
203	19.8	15.1	22.7



Instrument :
BNA_G
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

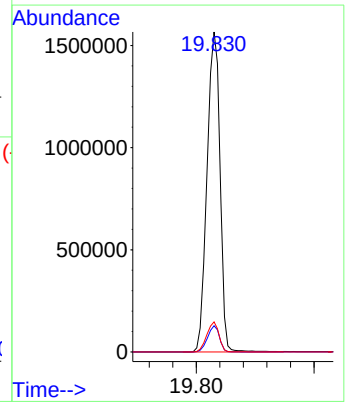
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

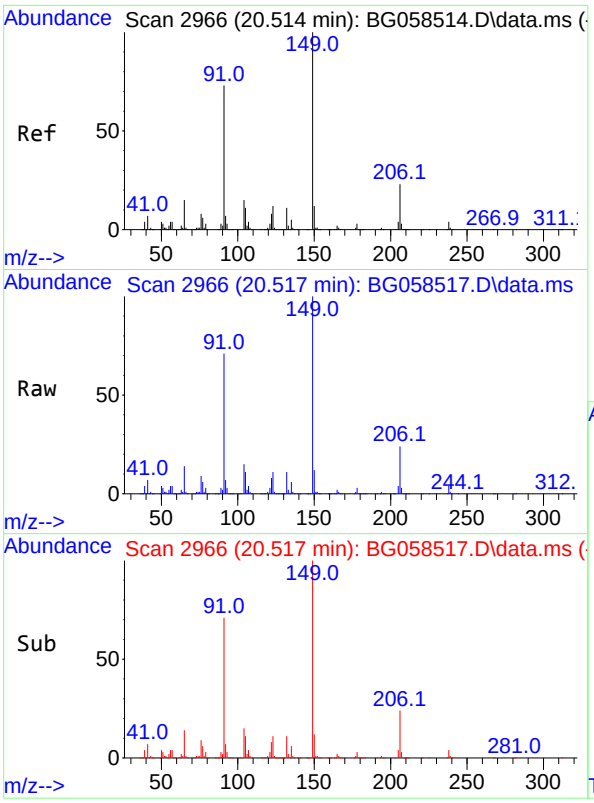


#79
Terphenyl-d14
Concen: 136.456 ng
RT: 19.830 min Scan# 2849
Delta R.T. 0.003 min
Lab File: BG058517.D
Acq: 28 Jul 2023 14:09

Tgt Ion:244 Resp: 2405763

Ion	Ratio	Lower	Upper
244	100		
212	8.2	5.9	8.9
122	9.4	6.8	10.2

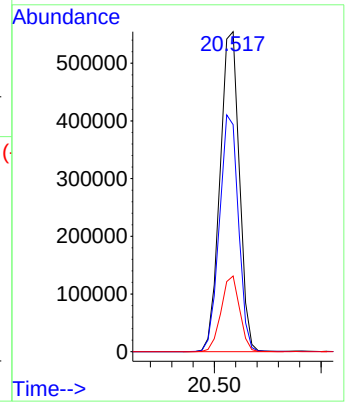




#80
Butylbenzylphthalate
Concen: 75.175 ng
RT: 20.517 min Scan# 2
Delta R.T. 0.004 min
Lab File: BG058517.D
Acq: 28 Jul 2023 14:09

Tgt Ion:149 Resp: 69673

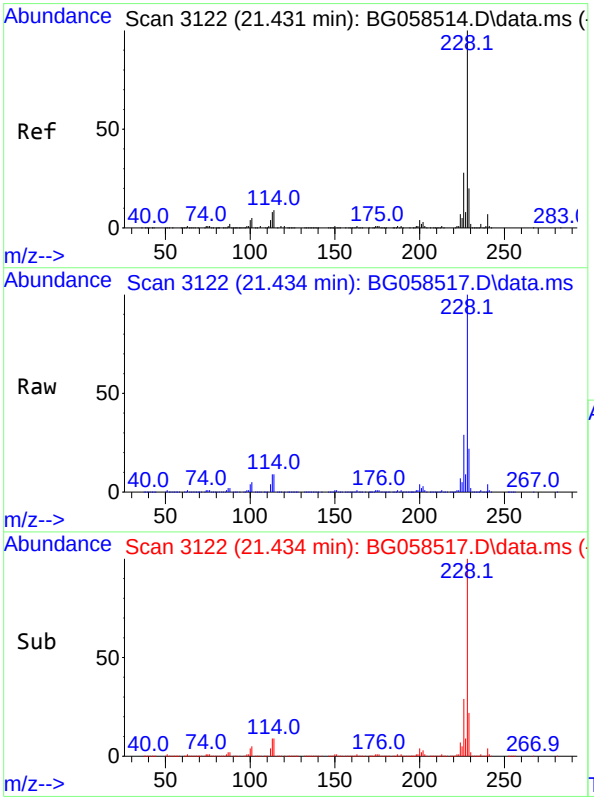
Ion	Ratio	Lower	Upper
149	100		
91	70.9	58.4	87.6
206	23.7	18.3	27.5



Instrument :
BNA_G
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

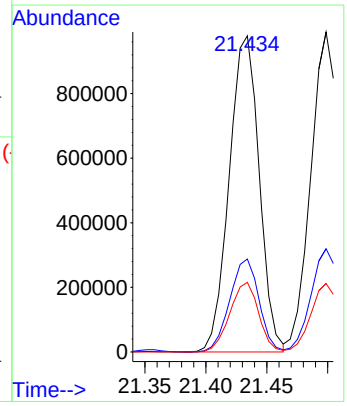
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

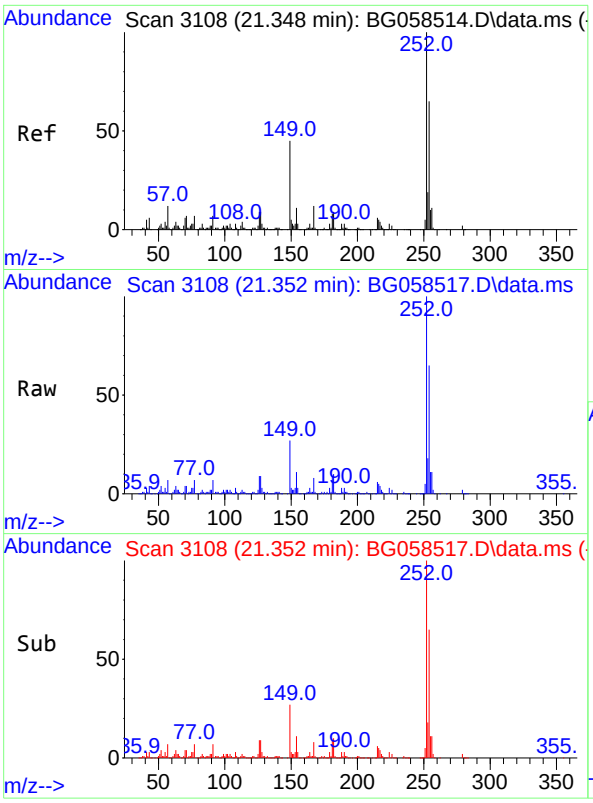


#81
Benzo(a)anthracene
Concen: 73.643 ng
RT: 21.434 min Scan# 3122
Delta R.T. 0.003 min
Lab File: BG058517.D
Acq: 28 Jul 2023 14:09

Tgt Ion:228 Resp: 1680272

Ion	Ratio	Lower	Upper
228	100		
226	29.4	22.6	33.8
229	22.0	16.3	24.5

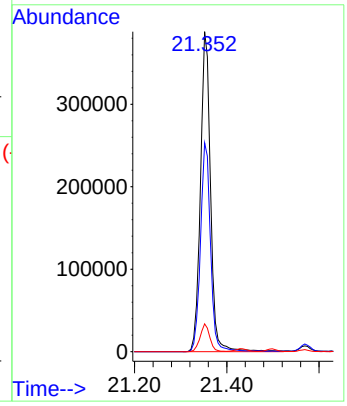




#82
3,3'-Dichlorobenzidine
Concen: 76.246 ng
RT: 21.352 min Scan# 3
Delta R.T. 0.004 min
Lab File: BG058517.D
Acq: 28 Jul 2023 14:09

Tgt Ion:252 Resp: 58820

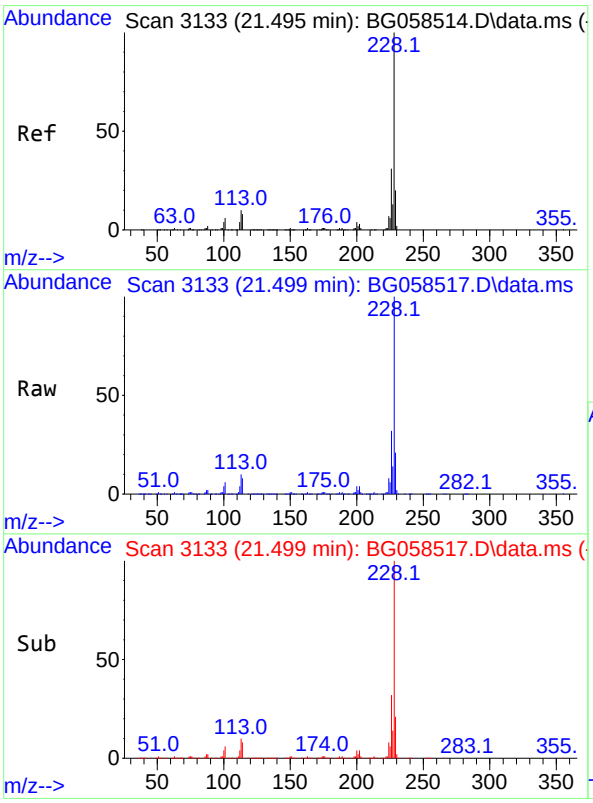
Ion	Ratio	Lower	Upper
252	100		
254	65.2	52.2	78.4
126	8.7	7.2	10.8



Instrument :
BNA_G
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

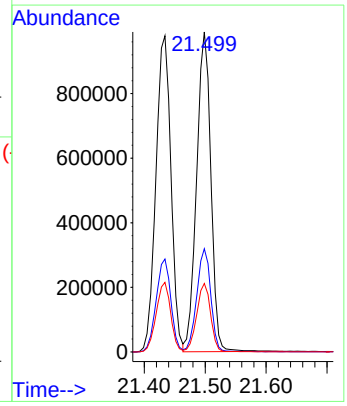
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

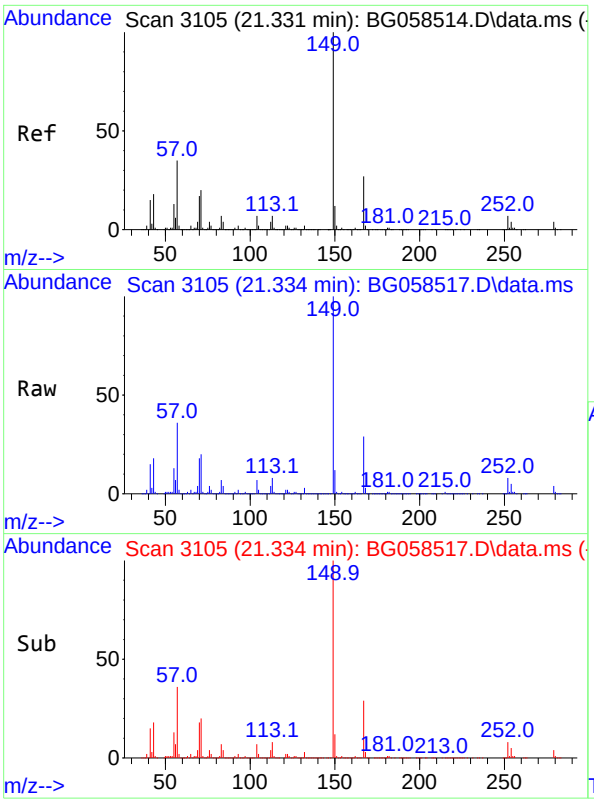


#83
Chrysene
Concen: 73.446 ng
RT: 21.499 min Scan# 3133
Delta R.T. 0.003 min
Lab File: BG058517.D
Acq: 28 Jul 2023 14:09

Tgt Ion:228 Resp: 1606732

Ion	Ratio	Lower	Upper
228	100		
226	32.3	25.0	37.6
229	21.4	16.3	24.5

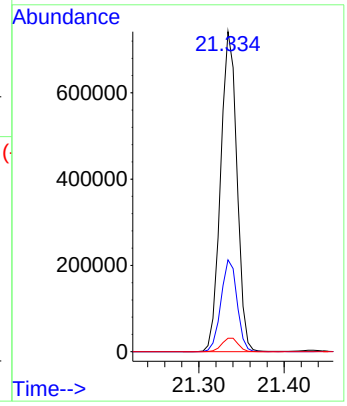




#84
Bis(2-ethylhexyl)phthalate
Concen: 73.026 ng
RT: 21.334 min Scan# 3
Delta R.T. 0.004 min
Lab File: BG058517.D
Acq: 28 Jul 2023 14:09

Tgt Ion:149 Resp: 98905

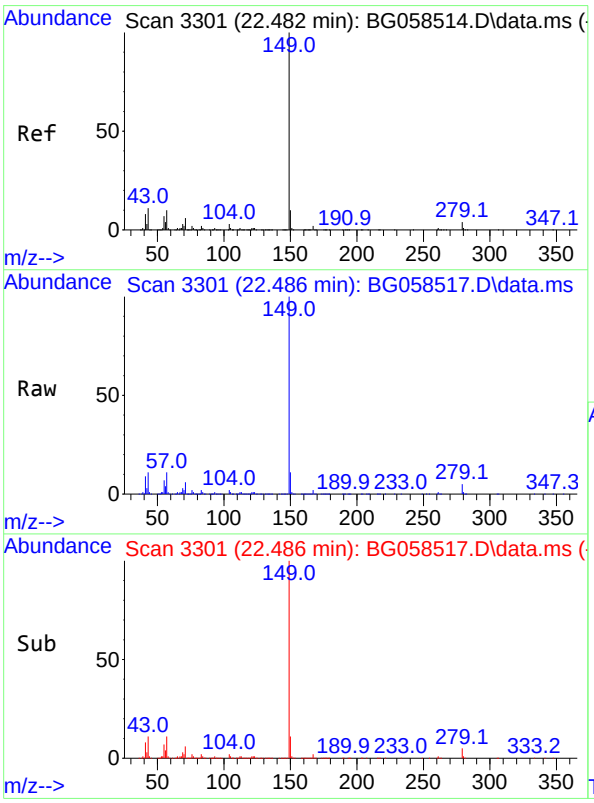
Ion	Ratio	Lower	Upper
149	100		
167	28.7	21.8	32.8
279	4.2	2.9	4.3



Instrument :
BNA_G
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

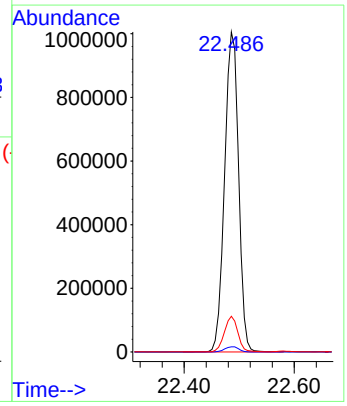
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

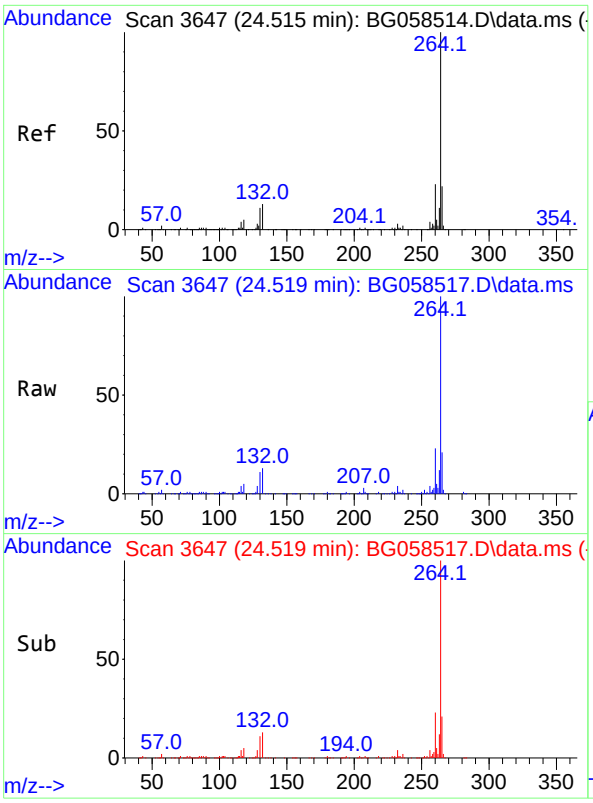


#85
Di-n-octyl phthalate
Concen: 74.355 ng
RT: 22.486 min Scan# 3301
Delta R.T. 0.004 min
Lab File: BG058517.D
Acq: 28 Jul 2023 14:09

Tgt Ion:149 Resp: 1770513

Ion	Ratio	Lower	Upper
149	100		
167	1.7	1.3	1.9
43	10.7	8.2	12.2

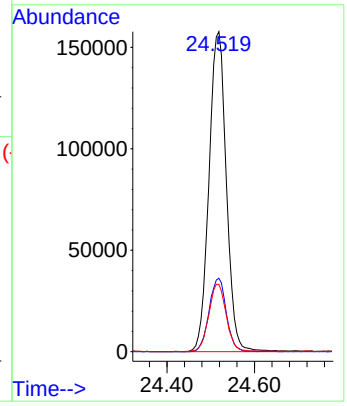




#86
Perylene-d12
Concen: 20.000 ng
RT: 24.519 min Scan# 3
Delta R.T. 0.004 min
Lab File: BG058517.D
Acq: 28 Jul 2023 14:09

Tgt Ion:264 Resp: 43541

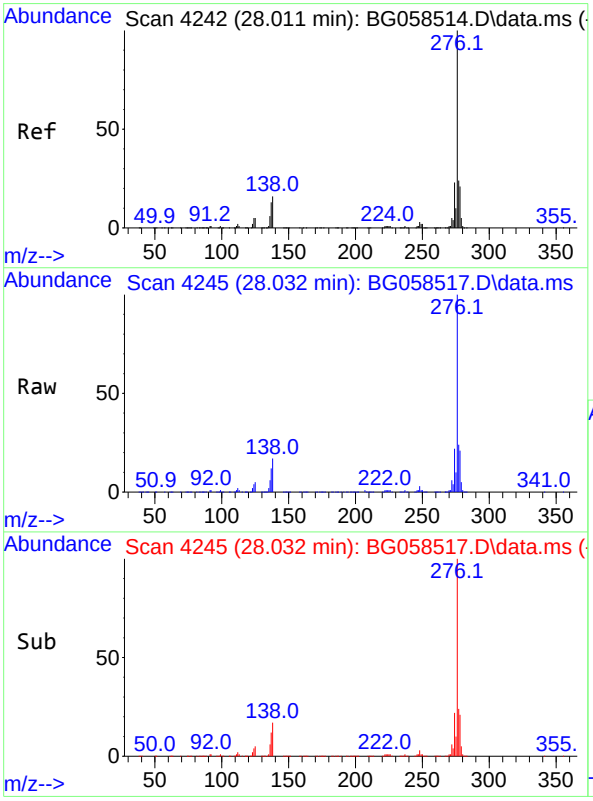
Ion	Ratio	Lower	Upper
264	100		
260	23.0	18.4	27.6
265	21.0	17.9	26.9



Instrument :
BNA_G
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

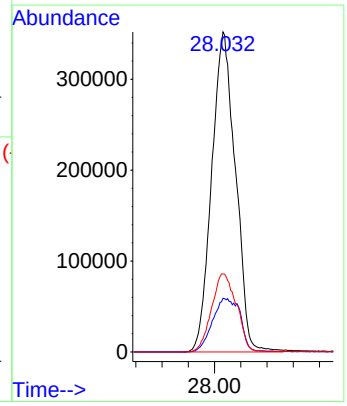
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

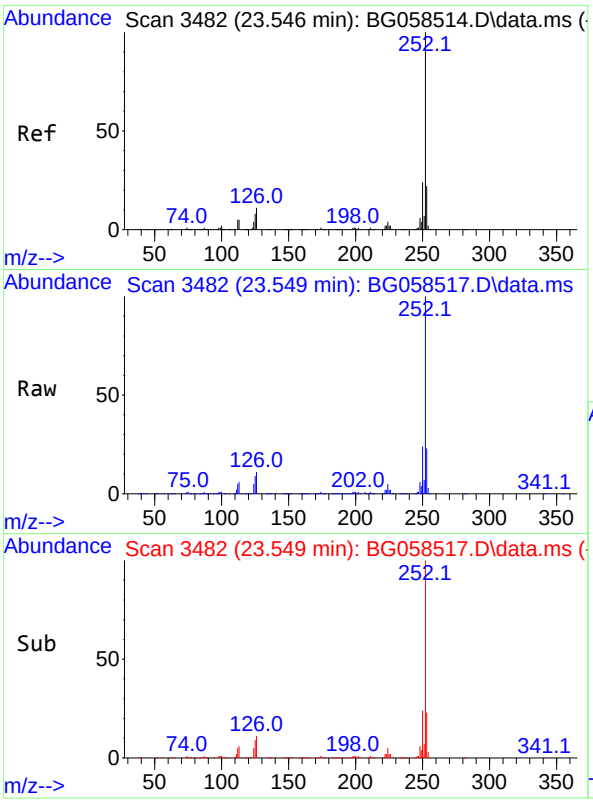


#87
Indeno(1,2,3-cd)pyrene
Concen: 76.447 ng
RT: 28.032 min Scan# 4245
Delta R.T. 0.021 min
Lab File: BG058517.D
Acq: 28 Jul 2023 14:09

Tgt Ion:276 Resp: 2214422

Ion	Ratio	Lower	Upper
276	100		
138	19.6	16.0	24.0
277	25.7	20.4	30.6

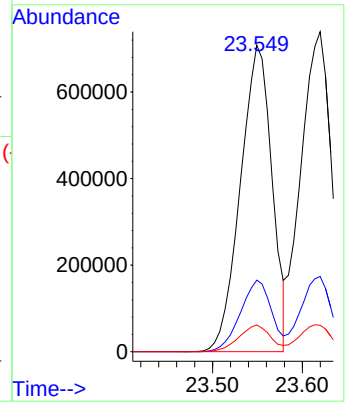




#88
Benzo(b)fluoranthene
Concen: 73.255 ng
RT: 23.549 min Scan# 34
Delta R.T. 0.003 min
Lab File: BG058517.D
Acq: 28 Jul 2023 14:09

Tgt Ion:252 Resp: 172999

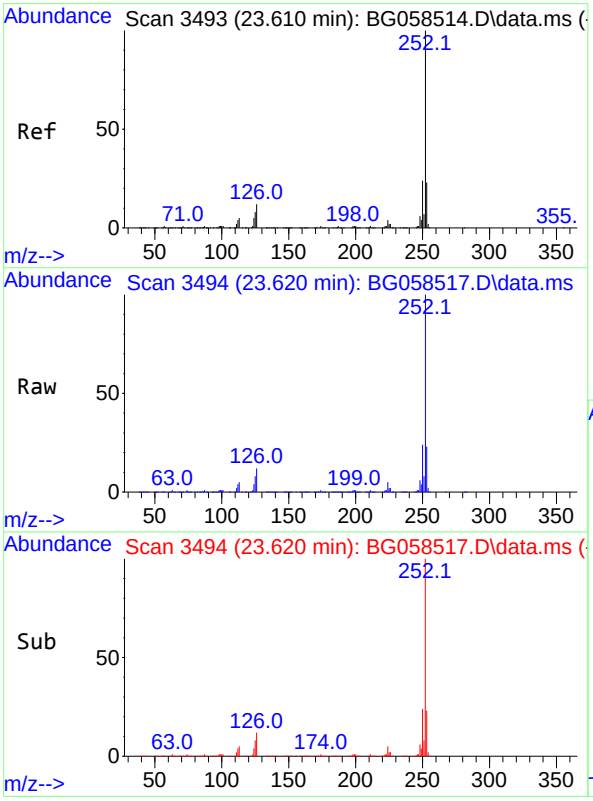
Ion	Ratio	Lower	Upper
252	100		
253	23.3	17.8	26.8
125	8.7	6.6	9.8



Instrument :
BNA_G
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

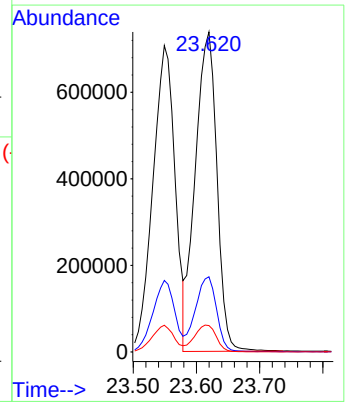
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

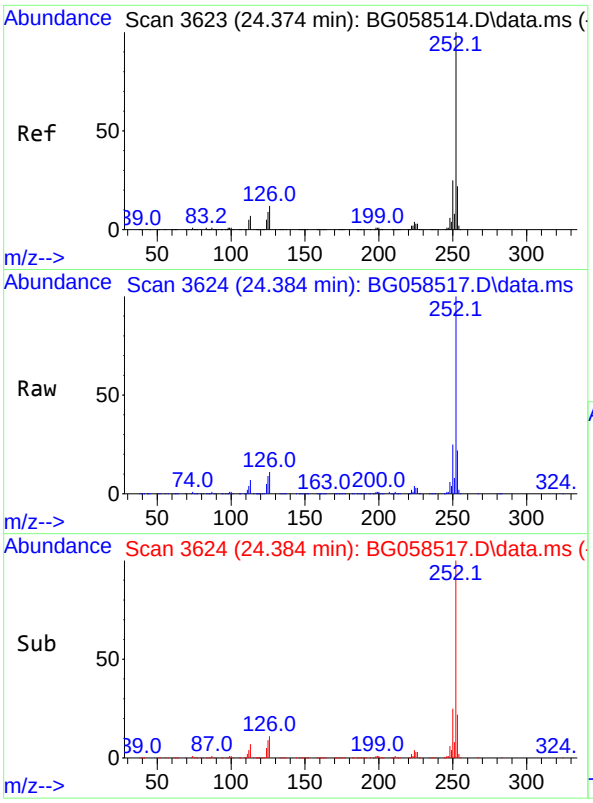


#89
Benzo(k)fluoranthene
Concen: 73.919 ng
RT: 23.620 min Scan# 3494
Delta R.T. 0.009 min
Lab File: BG058517.D
Acq: 28 Jul 2023 14:09

Tgt Ion:252 Resp: 1753689

Ion	Ratio	Lower	Upper
252	100		
253	23.5	17.9	26.9
125	8.3	6.6	10.0

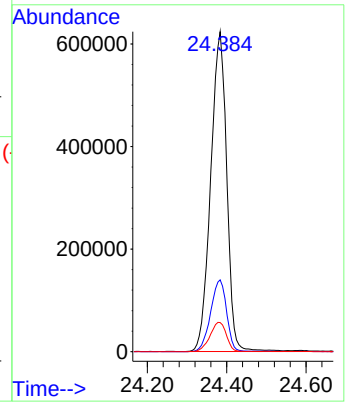




#90
Benzo(a)pyrene
Concen: 75.409 ng
RT: 24.384 min Scan# 3
Delta R.T. 0.009 min
Lab File: BG058517.D
Acq: 28 Jul 2023 14:09

Tgt Ion:252 Resp: 174891

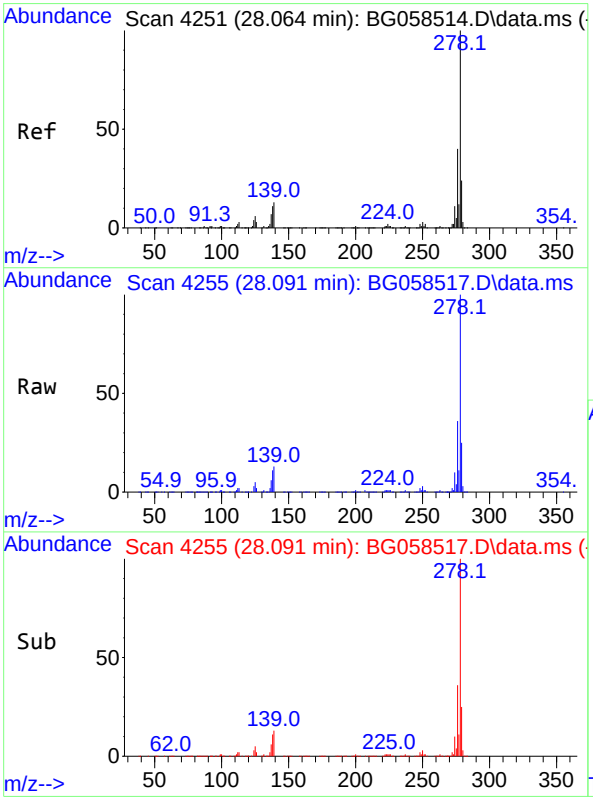
Ion	Ratio	Lower	Upper
252	100		
253	22.5	17.5	26.3
125	9.1	7.4	11.2



Instrument :
BNA_G
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

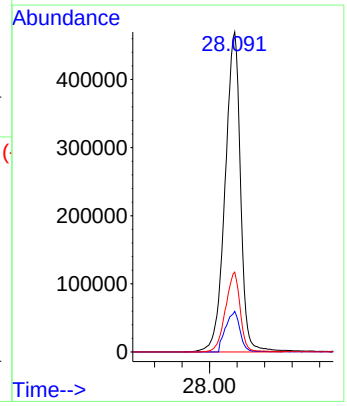
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

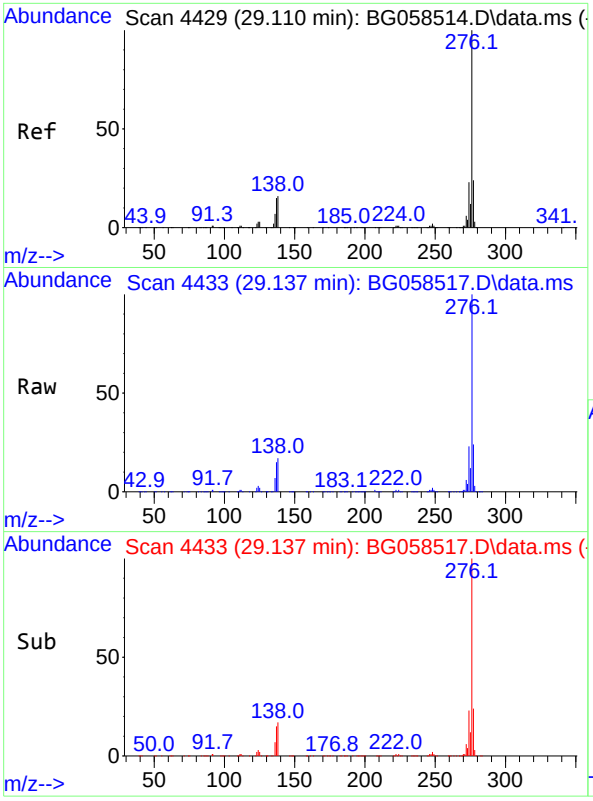


#91
Dibenzo(a,h)anthracene
Concen: 76.178 ng
RT: 28.091 min Scan# 4255
Delta R.T. 0.027 min
Lab File: BG058517.D
Acq: 28 Jul 2023 14:09

Tgt Ion:278 Resp: 1824567

Ion	Ratio	Lower	Upper
278	100		
139	12.7	10.4	15.6
279	25.0	19.0	28.6

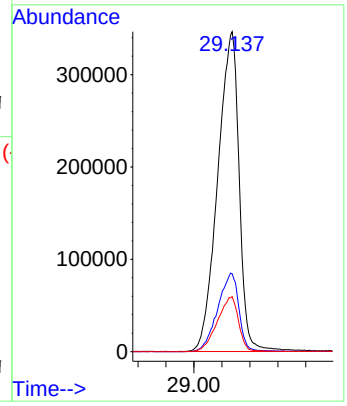




#92
Benzo(g,h,i)perylene
Concen: 76.760 ng
RT: 29.137 min Scan# 4
Delta R.T. 0.027 min
Lab File: BG058517.D
Acq: 28 Jul 2023 14:09

Tgt Ion:276 Resp: 184356

Ion	Ratio	Lower	Upper
276	100		
277	24.4	18.9	28.3
138	17.2	13.0	19.4



Instrument :
BNA_G
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG072823\
Data File : BG058518.D
Acq On : 28 Jul 2023 14:51
Operator : MA/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
ICVBG072823

Quant Time: Jul 28 22:35:56 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 28 22:29:07 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.812	152	51745	20.000	ng	0.00
21) Naphthalene-d8	10.615	136	215971	20.000	ng	0.00
39) Acenaphthene-d10	14.463	164	153165	20.000	ng	0.00
64) Phenanthrene-d10	17.207	188	377754	20.000	ng	0.00
76) Chrysene-d12	21.449	240	333556	20.000	ng	0.00
86) Perylene-d12	24.516	264	424117	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.385	112	273586	80.813	ng	0.00
7) Phenol-d6	6.984	99	390901	82.980	ng	0.00
23) Nitrobenzene-d5	8.981	82	361909	82.321	ng	0.00
42) 2,4,6-Tribromophenol	15.955	330	213691	85.119	ng	0.00
45) 2-Fluorobiphenyl	13.082	172	803056	78.572	ng	0.00
79) Terphenyl-d14	19.827	244	1402241	79.056	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.276	88	64970	39.604	ng	100
3) Pyridine	3.670	79	182655	40.839	ng	97
4) n-Nitrosodimethylamine	3.588	42	75471	39.826	ng	98
6) Aniline	7.142	93	243262	41.942	ng	99
8) 2-Chlorophenol	7.383	128	135913	40.923	ng	96
9) Benzaldehyde	6.954	77	101249	39.560	ng	95
10) Phenol	7.013	94	189762	41.237	ng	99
11) bis(2-Chloroethyl)ether	7.236	93	147268	40.594	ng	96
12) 1,3-Dichlorobenzene	7.700	146	141873	40.004	ng	98
13) 1,4-Dichlorobenzene	7.853	146	144758	40.652	ng	98
14) 1,2-Dichlorobenzene	8.170	146	138646	40.724	ng	98
15) Benzyl Alcohol	8.059	79	130252	43.600	ng	98
16) 2,2'-oxybis(1-Chloropr...	8.347	45	239237	40.597	ng	100
17) 2-Methylphenol	8.259	107	139269	41.392	ng	98
18) Hexachloroethane	8.893	117	52692	40.711	ng	93
19) n-Nitroso-di-n-propyla...	8.623	70	129384	42.521	ng	100
20) 3+4-Methylphenols	8.593	107	193978	42.621	ng	99
22) Acetophenone	8.640	105	237766	41.116	ng	99
24) Nitrobenzene	9.022	77	181903	40.699	ng	94
25) Isophorone	9.539	82	371016	40.845	ng	99
26) 2-Nitrophenol	9.733	139	80419	41.335	ng	96
27) 2,4-Dimethylphenol	9.792	122	134763	41.759	ng	99
28) bis(2-Chloroethoxy)met...	10.027	93	203661	41.199	ng	98
29) 2,4-Dichlorophenol	10.268	162	137620	41.072	ng	98
30) 1,2,4-Trichlorobenzene	10.479	180	154658	40.023	ng	99
31) Naphthalene	10.668	128	457459	40.188	ng	100
32) Benzoic acid	9.951	122	99762	41.207	ng	98
33) 4-Chloroaniline	10.779	127	205191	42.665	ng	97
34) Hexachlorobutadiene	10.950	225	99417	39.950	ng	97
35) Caprolactam	11.561	113	53292	43.070	ng	98
36) 4-Chloro-3-methylphenol	11.913	107	174615	42.127	ng	97
37) 2-Methylnaphthalene	12.283	142	329875	40.513	ng	98
38) 1-Methylnaphthalene	12.501	142	314371	40.616	ng	100
40) 1,2,4,5-Tetrachloroben...	12.648	216	186011	39.557	ng	99
41) Hexachlorocyclopentadiene	12.624	237	76190	38.726	ng	96
43) 2,4,6-Trichlorophenol	12.894	196	128998	39.884	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG072823\
Data File : BG058518.D
Acq On : 28 Jul 2023 14:51
Operator : MA/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
ICVBG072823

Quant Time: Jul 28 22:35:56 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 28 22:29:07 2023
Response via : Initial Calibration

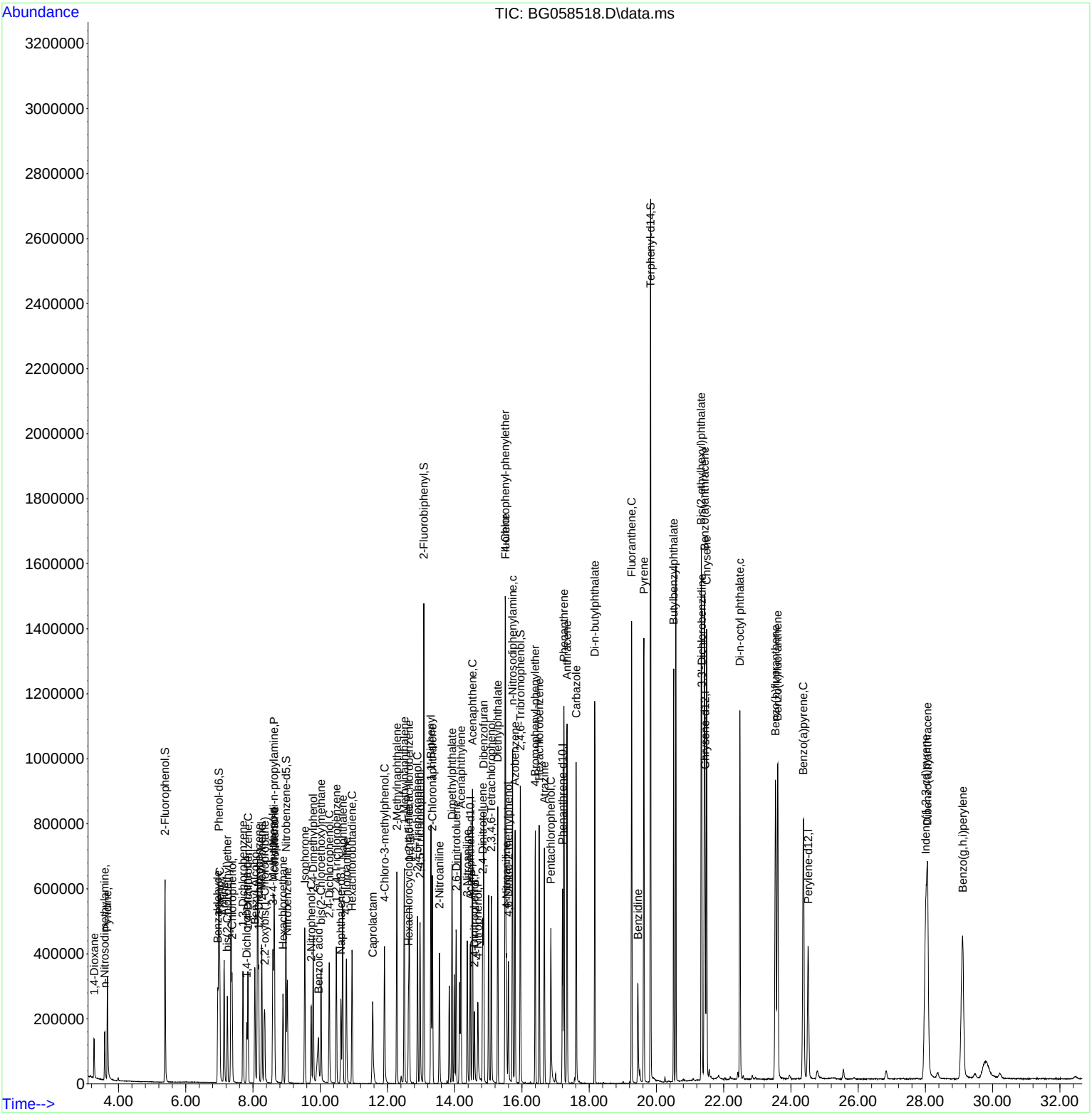
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.971	196	155986	40.946	ng	96
46) 1,1'-Biphenyl	13.294	154	416925	39.637	ng	98
47) 2-Chloronaphthalene	13.335	162	323358	39.427	ng	99
48) 2-Nitroaniline	13.546	65	131430	41.985	ng	97
49) Acenaphthylene	14.187	152	545029	39.693	ng	99
50) Dimethylphthalate	13.923	163	465059	40.429	ng	99
51) 2,6-Dinitrotoluene	14.046	165	104577	41.433	ng	97
52) Acenaphthene	14.528	154	317685	40.041	ng	98
53) 3-Nitroaniline	14.375	138	109717	43.448	ng	98
54) 2,4-Dinitrophenol	14.586	184	53962	41.862	ng	94
55) Dibenzofuran	14.863	168	543117	39.837	ng	99
56) 4-Nitrophenol	14.692	139	77239	42.888	ng	97
57) 2,4-Dinitrotoluene	14.833	165	149382	42.691	ng	100
58) Fluorene	15.509	166	436173	40.273	ng	99
59) 2,3,4,6-Tetrachlorophenol	15.092	232	136458	41.977	ng	97
60) Diethylphthalate	15.280	149	474951	40.529	ng	99
61) 4-Chlorophenyl-phenyle...	15.503	204	244857	40.552	ng	98
62) 4-Nitroaniline	15.538	138	109247	45.669	ng	99
63) Azobenzene	15.797	77	467366	40.491	ng	99
65) 4,6-Dinitro-2-methylph...	15.597	198	91038	43.707	ng	98
66) n-Nitrosodiphenylamine	15.720	169	389148	39.580	ng	100
67) 4-Bromophenyl-phenylether	16.396	248	169275	39.508	ng	97
68) Hexachlorobenzene	16.514	284	181293	39.931	ng	99
69) Atrazine	16.666	200	134203	40.435	ng	96
70) Pentachlorophenol	16.860	266	119936	43.644	ng	97
71) Phenanthrene	17.248	178	714124	39.862	ng	100
72) Anthracene	17.342	178	733497	39.903	ng	99
73) Carbazole	17.612	167	670087	41.339	ng	99
74) Di-n-butylphthalate	18.165	149	836547	41.202	ng	100
75) Fluoranthene	19.263	202	880393	40.912	ng	99
77) Benzidine	19.451	184	248020	49.035	ng	98
78) Pyrene	19.628	202	896169	39.478	ng	99
80) Butylbenzylphthalate	20.515	149	380963	40.857	ng	97
81) Benzo(a)anthracene	21.431	228	916382	39.921	ng	100
82) 3,3'-Dichlorobenzidine	21.349	252	314941	40.578	ng	98
83) Chrysene	21.490	228	878906	39.934	ng	99
84) Bis(2-ethylhexyl)phtha...	21.331	149	552161	40.523	ng	100
85) Di-n-octyl phthalate	22.483	149	966716	40.353	ng	100
87) Indeno(1,2,3-cd)pyrene	28.012	276	1145148	40.586	ng	100
88) Benzo(b)fluoranthene	23.541	252	939594	40.846	ng	99
89) Benzo(k)fluoranthene	23.605	252	924415	40.002	ng	100
90) Benzo(a)pyrene	24.369	252	914794	40.494	ng	100
91) Dibenzo(a,h)anthracene	28.065	278	956720	41.008	ng	99
92) Benzo(g,h,i)perylene	29.111	276	963936	41.204	ng	98

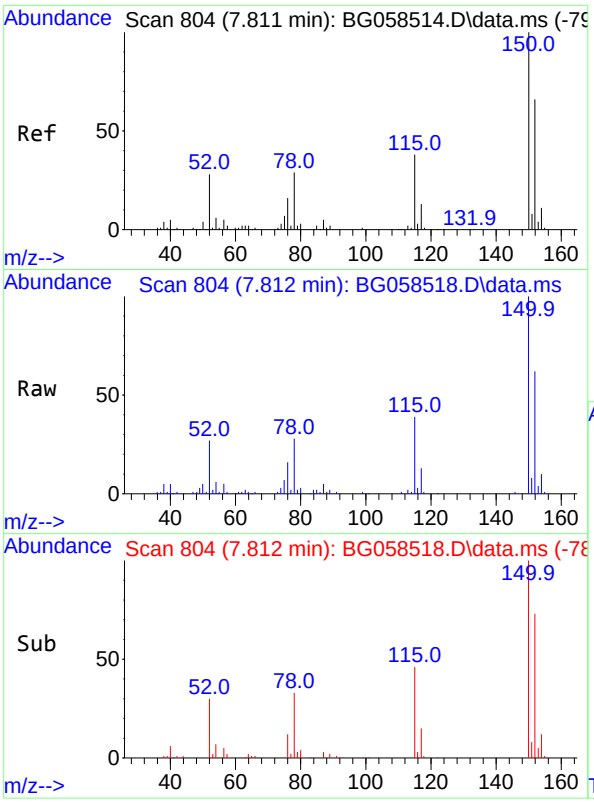
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG072823\
Data File : BG058518.D
Acq On : 28 Jul 2023 14:51
Operator : MA/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
ICVBG072823

Quant Time: Jul 28 22:35:56 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 28 22:29:07 2023
Response via : Initial Calibration



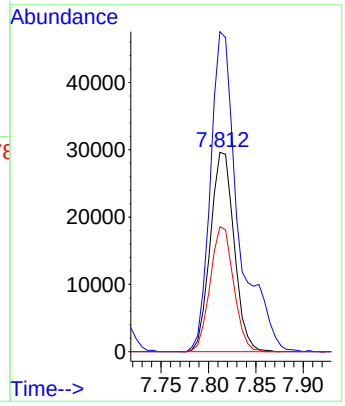


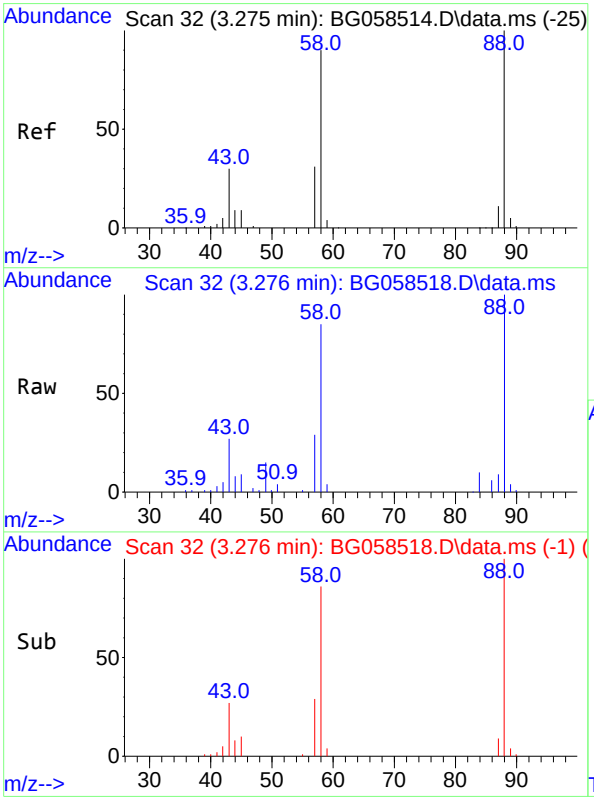
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.812 min Scan# 8
Delta R.T. 0.001 min
Lab File: BG058518.D
Acq: 28 Jul 2023 14:51

Instrument :
BNA_G
ClientSampleId :
ICVBG072823

Tgt Ion:152 Resp: 51745

Ion	Ratio	Lower	Upper
152	100		
150	160.5	120.5	180.7
115	62.7	45.9	68.9

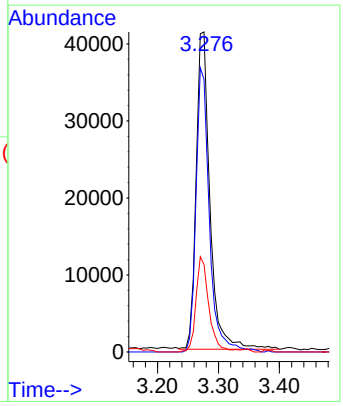


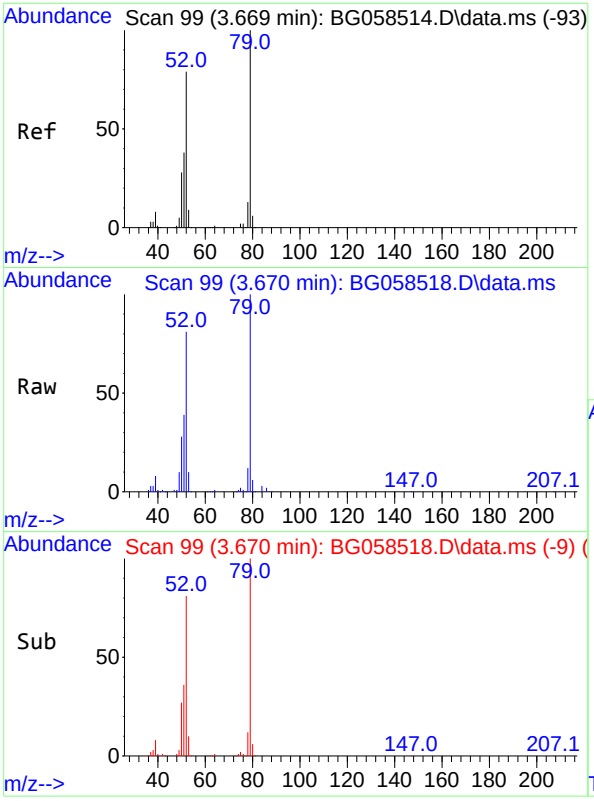


#2
1,4-Dioxane
Concen: 39.604 ng
RT: 3.276 min Scan# 32
Delta R.T. 0.001 min
Lab File: BG058518.D
Acq: 28 Jul 2023 14:51

Tgt Ion: 88 Resp: 64970

Ion	Ratio	Lower	Upper
88	100		
58	86.2	68.9	103.3
43	27.9	22.9	34.3



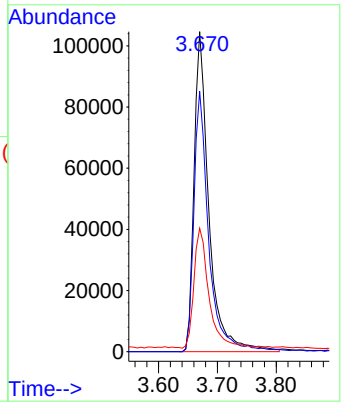


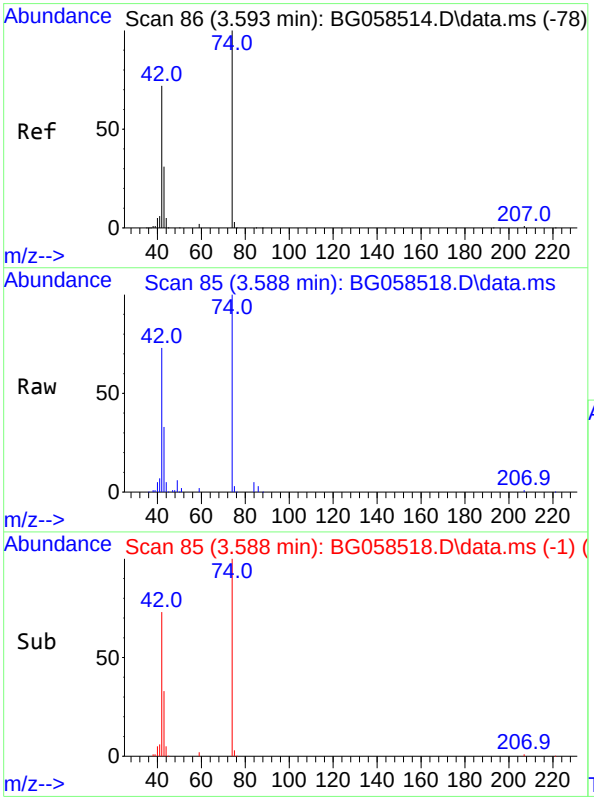
#3
Pyridine
Concen: 40.839 ng
RT: 3.670 min Scan# 9
Delta R.T. 0.001 min
Lab File: BG058518.D
Acq: 28 Jul 2023 14:51

Instrument :
BNA_G
ClientSampleId :
ICVBG072823

Tgt Ion: 79 Resp: 182655

Ion	Ratio	Lower	Upper
79	100		
52	81.4	63.2	94.8
51	38.6	31.9	47.9

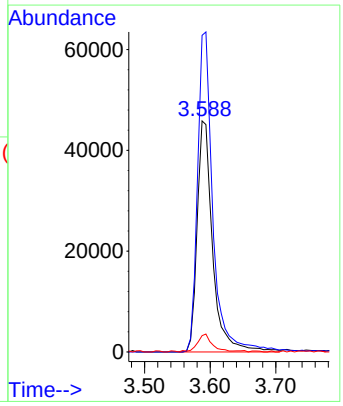


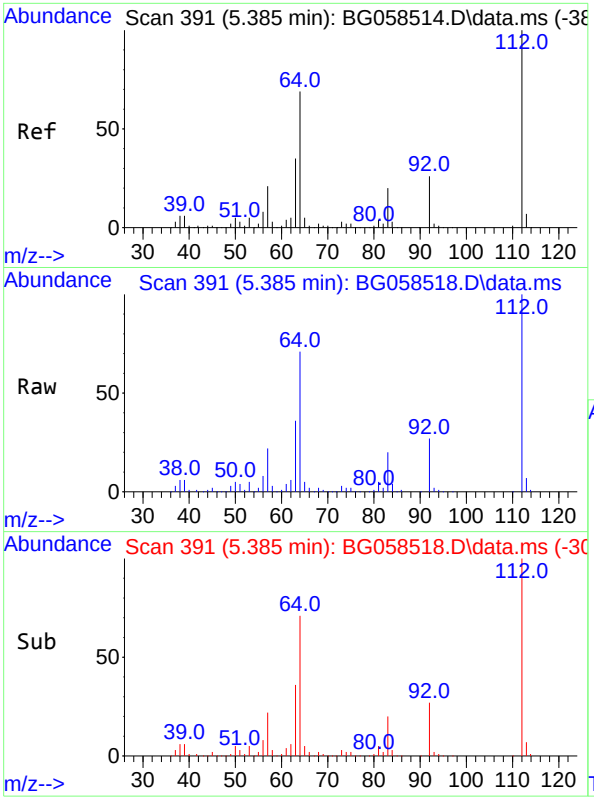


#4
n-Nitrosodimethylamine
Concen: 39.826 ng
RT: 3.588 min Scan# 85
Delta R.T. -0.005 min
Lab File: BG058518.D
Acq: 28 Jul 2023 14:51

Tgt Ion: 42 Resp: 75471

Ion	Ratio	Lower	Upper
42	100		
74	137.0	111.5	167.3
44	7.1	5.4	8.2



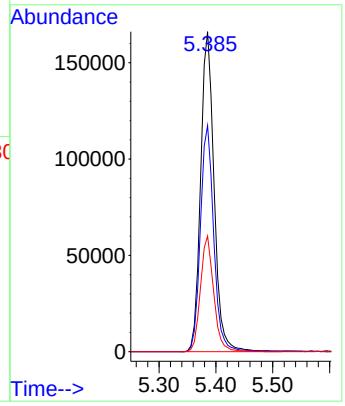


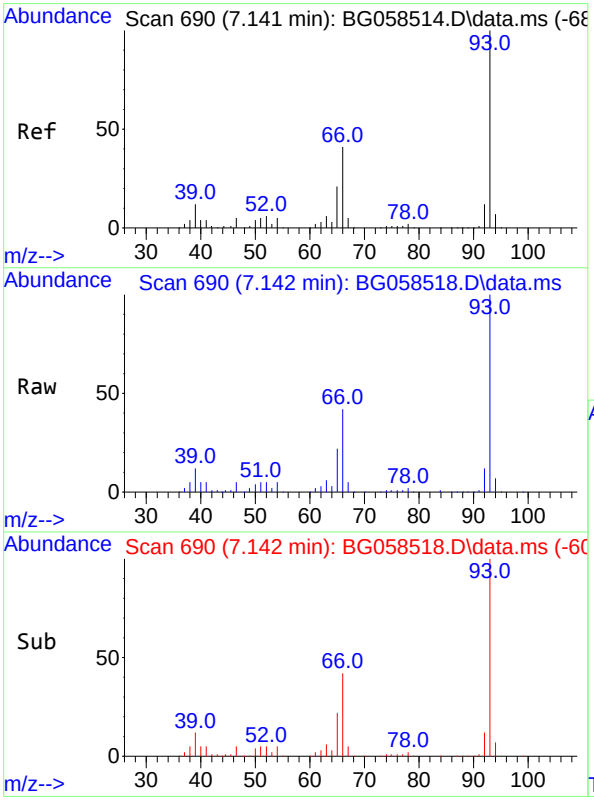
#5
2-Fluorophenol
Concen: 80.813 ng
RT: 5.385 min Scan# 3
Delta R.T. 0.001 min
Lab File: BG058518.D
Acq: 28 Jul 2023 14:51

Instrument :
BNA_G
ClientSampleId :
ICVBG072823

Tgt Ion:112 Resp: 273586

Ion	Ratio	Lower	Upper
112	100		
64	70.7	55.3	82.9
63	36.2	28.3	42.5

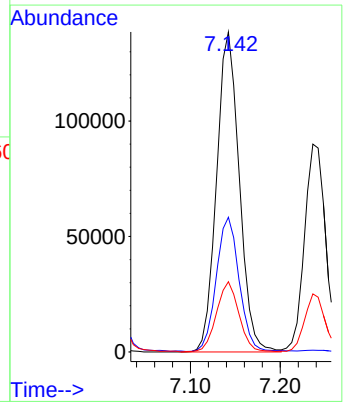


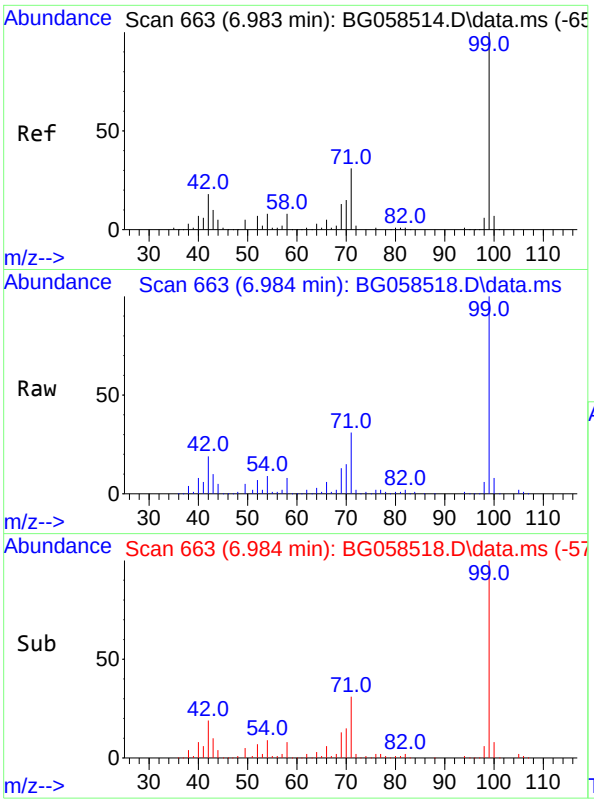


#6
Aniline
Concen: 41.942 ng
RT: 7.142 min Scan# 690
Delta R.T. 0.001 min
Lab File: BG058518.D
Acq: 28 Jul 2023 14:51

Tgt Ion: 93 Resp: 243262

Ion	Ratio	Lower	Upper
93	100		
66	42.1	33.1	49.7
65	22.0	17.0	25.4



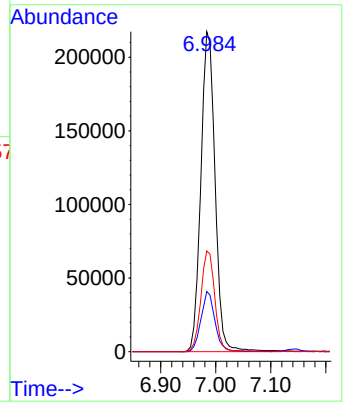


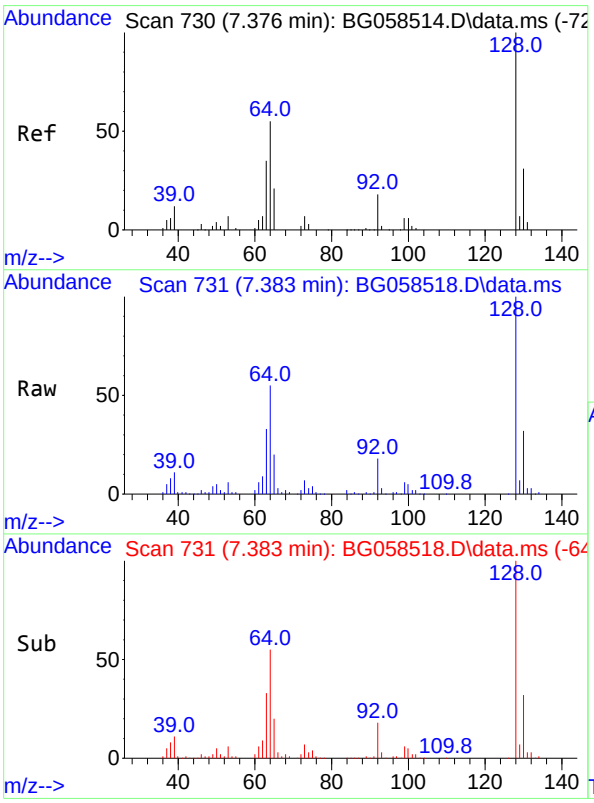
#7
Phenol-d6
Concen: 82.980 ng
RT: 6.984 min Scan# 6
Delta R.T. 0.001 min
Lab File: BG058518.D
Acq: 28 Jul 2023 14:51

Instrument :
BNA_G
ClientSampleId :
ICVBG072823

Tgt Ion: 99 Resp: 390901

Ion	Ratio	Lower	Upper
99	100		
42	18.8	14.6	21.8
71	31.4	25.0	37.4

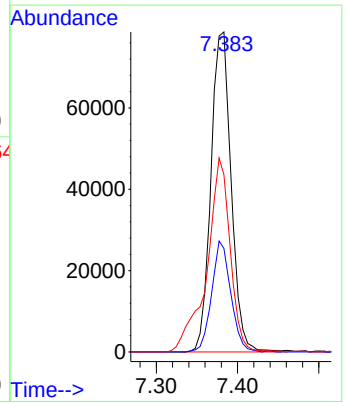


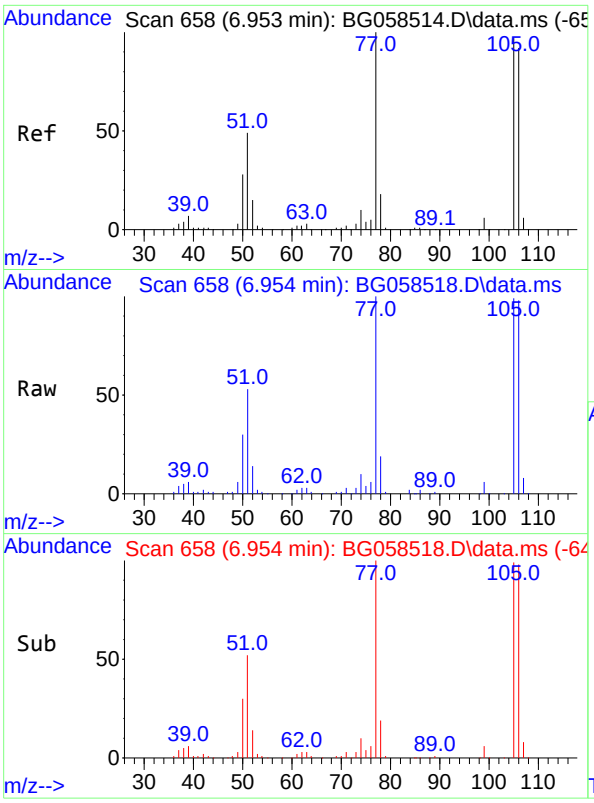


#8
2-Chlorophenol
Concen: 40.923 ng
RT: 7.383 min Scan# 731
Delta R.T. 0.007 min
Lab File: BG058518.D
Acq: 28 Jul 2023 14:51

Tgt Ion:128 Resp: 135913

Ion	Ratio	Lower	Upper
128	100		
130	32.4	10.9	50.9
64	55.4	39.0	79.0



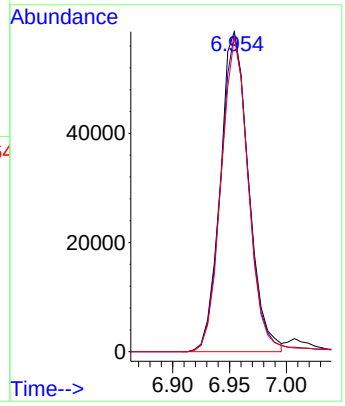


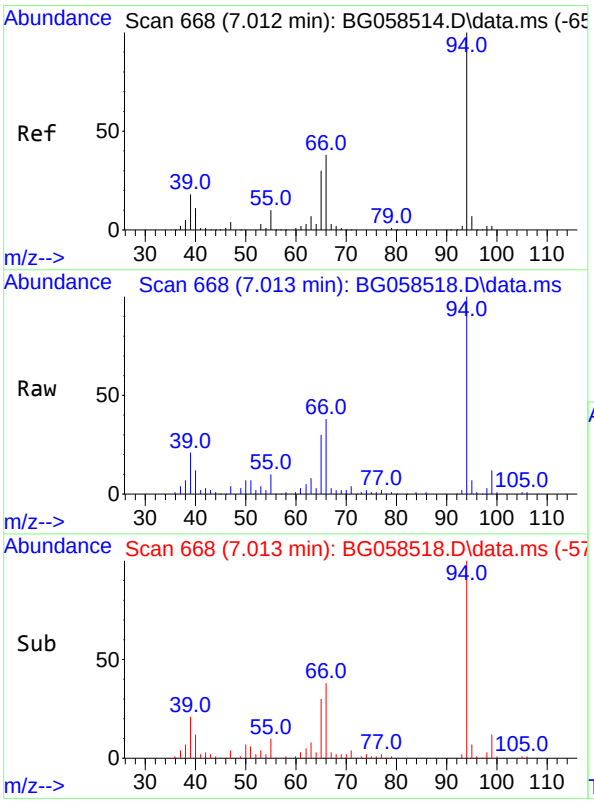
#9
Benzaldehyde
Concen: 39.560 ng
RT: 6.954 min Scan# 6
Delta R.T. 0.001 min
Lab File: BG058518.D
Acq: 28 Jul 2023 14:51

Instrument :
BNA_G
ClientSampleId :
ICVBG072823

Tgt Ion: 77 Resp: 101249

Ion	Ratio	Lower	Upper
77	100		
105	99.4	77.1	117.1
106	98.2	71.6	111.6

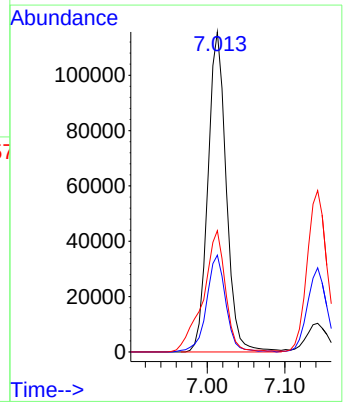


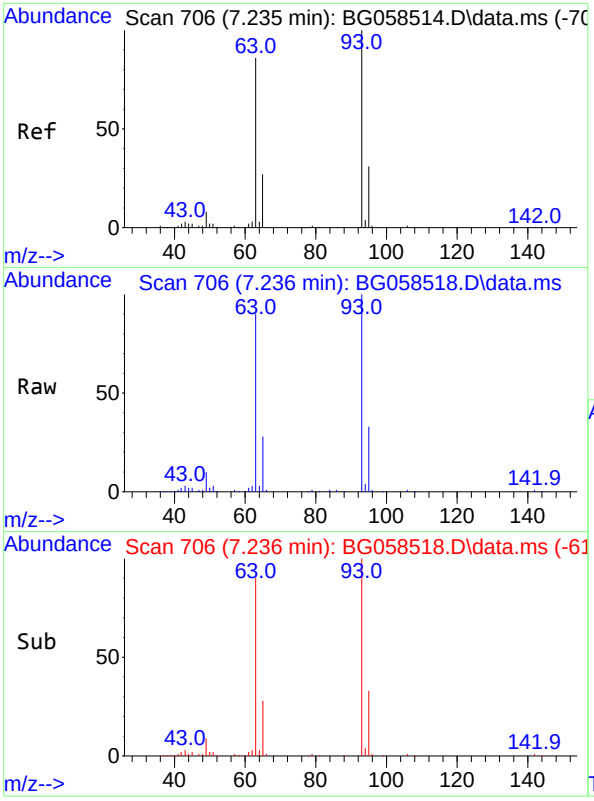


#10
Phenol
Concen: 41.237 ng
RT: 7.013 min Scan# 668
Delta R.T. 0.001 min
Lab File: BG058518.D
Acq: 28 Jul 2023 14:51

Tgt Ion: 94 Resp: 189762

Ion	Ratio	Lower	Upper
94	100		
65	30.3	10.4	50.4
66	37.9	18.7	58.7



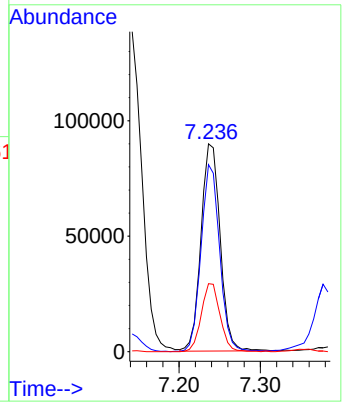


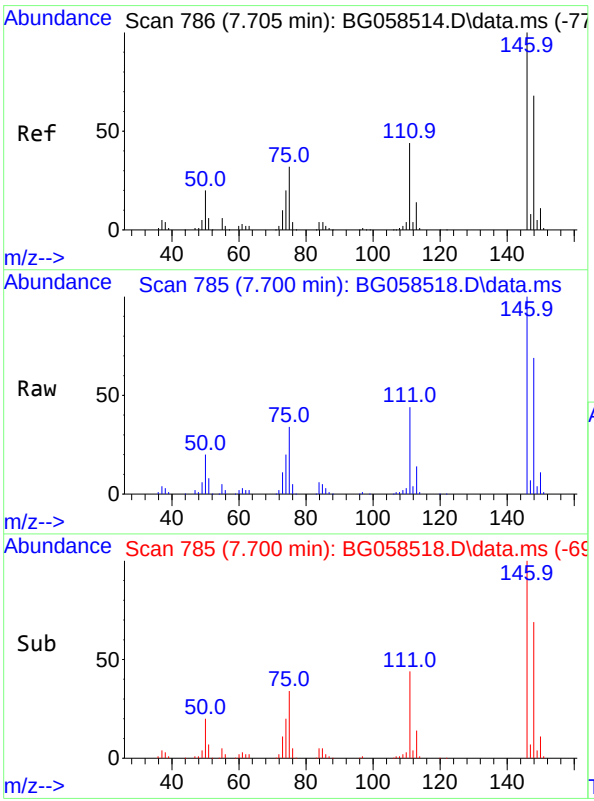
#11
bis(2-Chloroethyl)ether
Concen: 40.594 ng
RT: 7.236 min Scan# 7
Delta R.T. 0.001 min
Lab File: BG058518.D
Acq: 28 Jul 2023 14:51

Instrument :
BNA_G
ClientSampleId :
ICVBG072823

Tgt Ion: 93 Resp: 147268

Ion	Ratio	Lower	Upper
93	100		
63	89.9	65.5	105.5
95	32.7	11.2	51.2

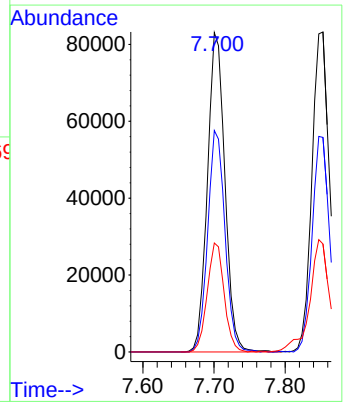


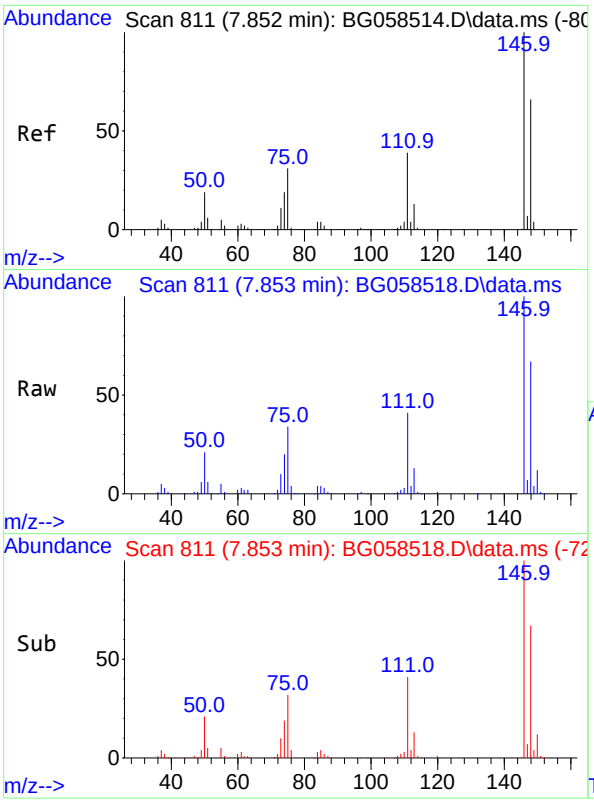


#12
1,3-Dichlorobenzene
Concen: 40.004 ng
RT: 7.700 min Scan# 785
Delta R.T. -0.005 min
Lab File: BG058518.D
Acq: 28 Jul 2023 14:51

Tgt Ion:146 Resp: 141873

Ion	Ratio	Lower	Upper
146	100		
148	69.3	54.7	82.1
75	34.1	25.8	38.8



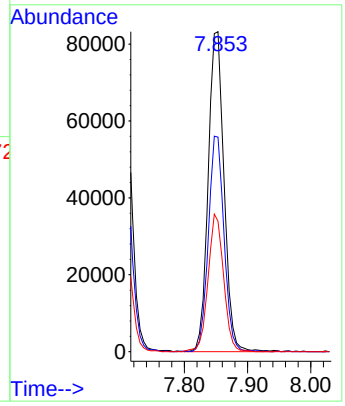


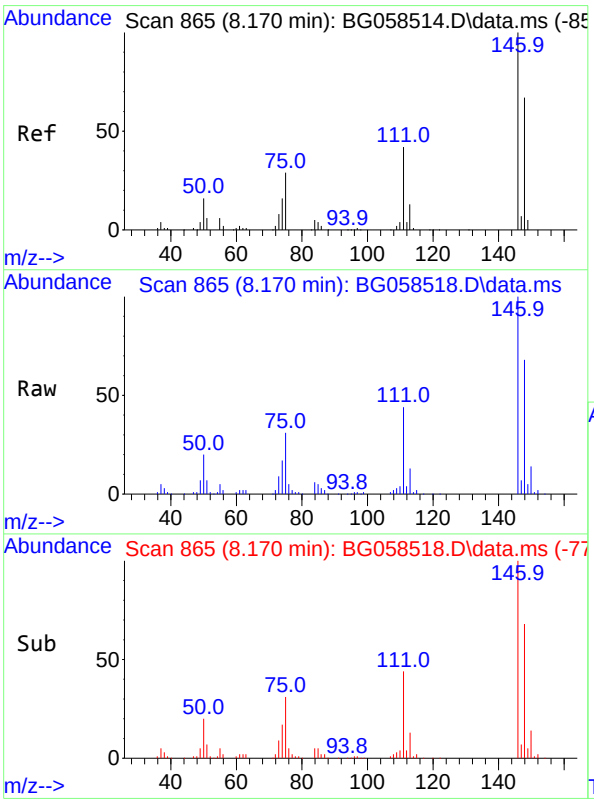
#13
1,4-Dichlorobenzene
Concen: 40.652 ng
RT: 7.853 min Scan# 81
Delta R.T. 0.001 min
Lab File: BG058518.D
Acq: 28 Jul 2023 14:51

Instrument :
BNA_G
ClientSampleId :
ICVBG072823

Tgt Ion:146 Resp: 144758

Ion	Ratio	Lower	Upper
146	100		
148	67.1	52.8	79.2
111	40.7	31.7	47.5

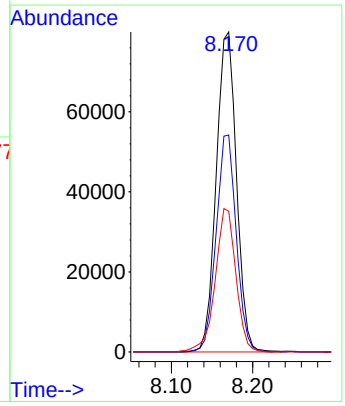


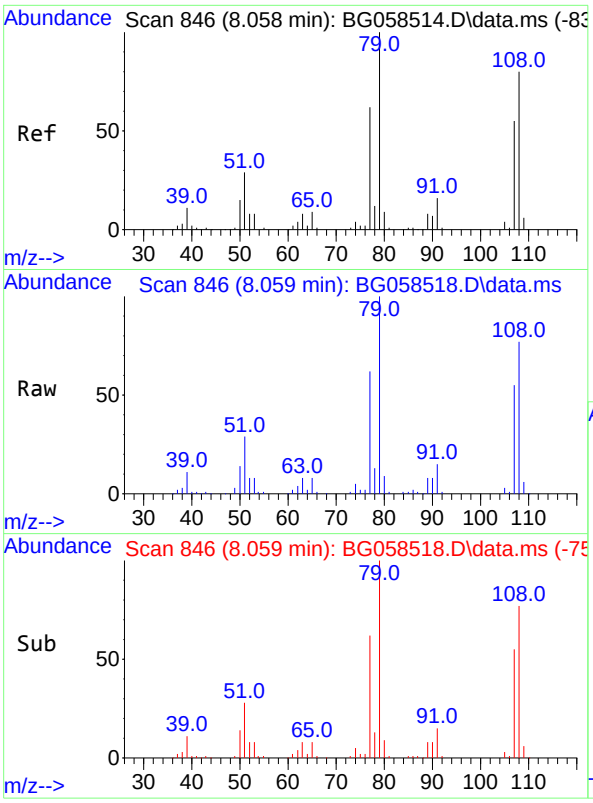


#14
1,2-Dichlorobenzene
Concen: 40.724 ng
RT: 8.170 min Scan# 865
Delta R.T. 0.001 min
Lab File: BG058518.D
Acq: 28 Jul 2023 14:51

Tgt Ion:146 Resp: 138646

Ion	Ratio	Lower	Upper
146	100		
148	67.8	53.4	80.2
111	44.0	34.2	51.2



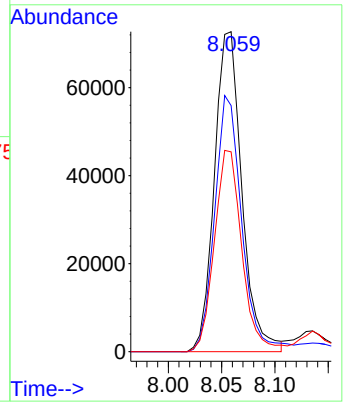


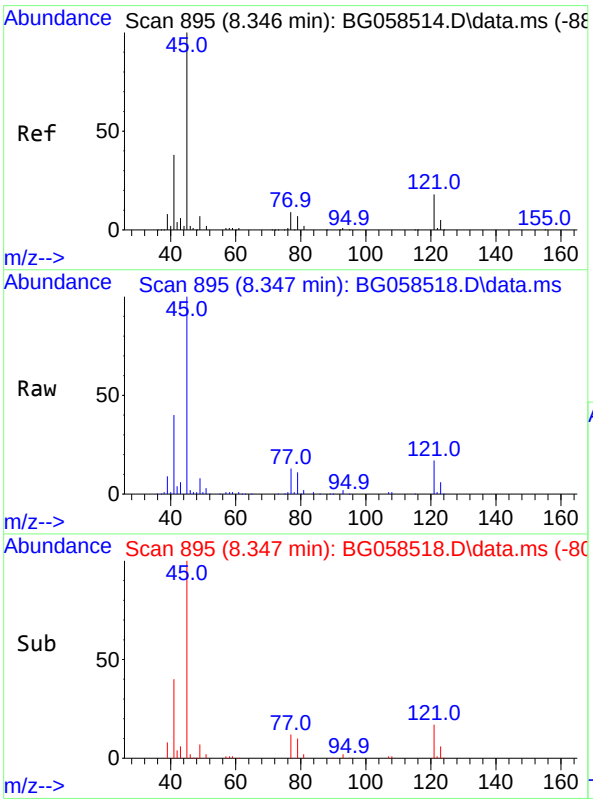
#15
Benzyl Alcohol
Concen: 43.600 ng
RT: 8.059 min Scan# 84
Delta R.T. 0.001 min
Lab File: BG058518.D
Acq: 28 Jul 2023 14:51

Instrument :
BNA_G
ClientSampleId :
ICVBG072823

Tgt Ion: 79 Resp: 130252

Ion	Ratio	Lower	Upper
79	100		
108	76.9	63.8	95.6
77	62.4	49.8	74.6

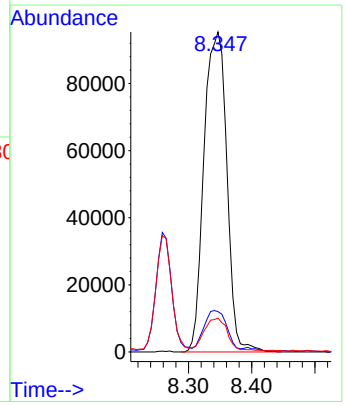


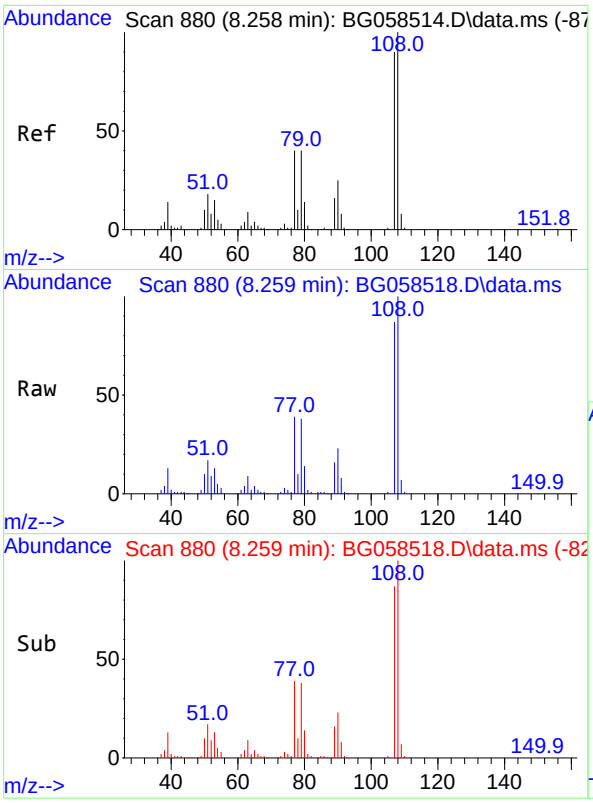


#16
2,2'-oxybis(1-Chloropropane)
Concen: 40.597 ng
RT: 8.347 min Scan# 895
Delta R.T. 0.001 min
Lab File: BG058518.D
Acq: 28 Jul 2023 14:51

Tgt Ion: 45 Resp: 239237

Ion	Ratio	Lower	Upper
45	100		
77	12.6	0.0	32.6
79	10.6	0.0	30.2



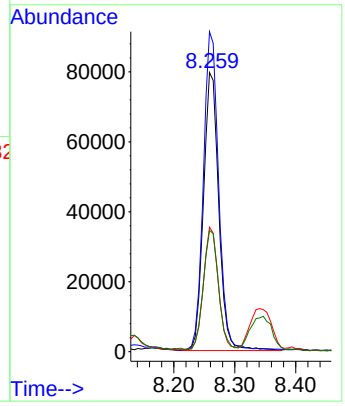


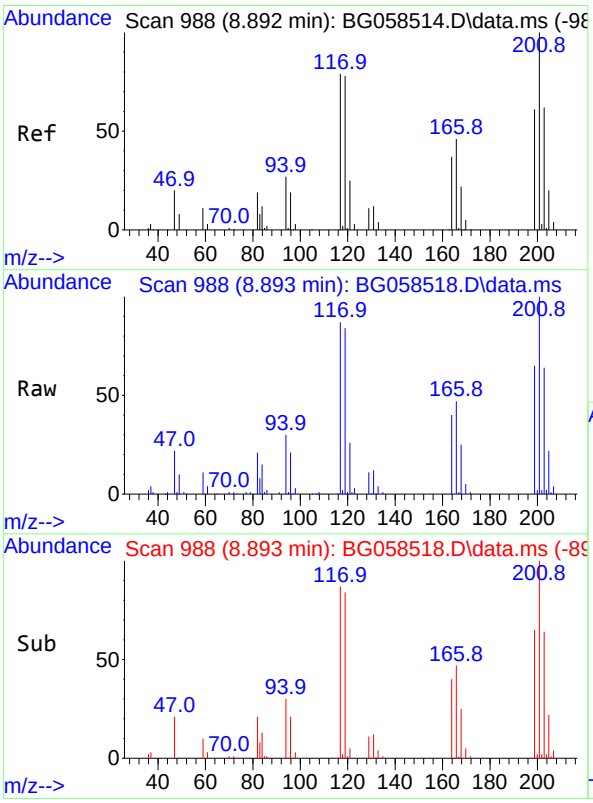
#17
2-Methylphenol
Concen: 41.392 ng
RT: 8.259 min Scan# 8
Delta R.T. 0.001 min
Lab File: BG058518.D
Acq: 28 Jul 2023 14:51

Instrument :
BNA_G
ClientSampleId :
ICVBG072823

Tgt Ion:107 Resp: 139269

Ion	Ratio	Lower	Upper
107	100		
108	114.6	89.1	133.7
77	44.6	36.2	54.4
79	43.4	36.1	54.1

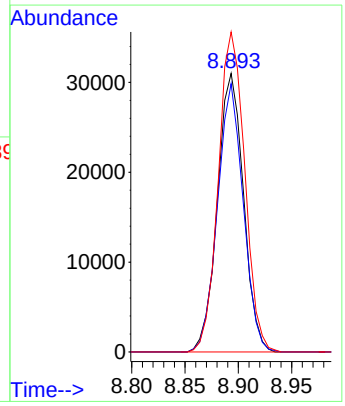


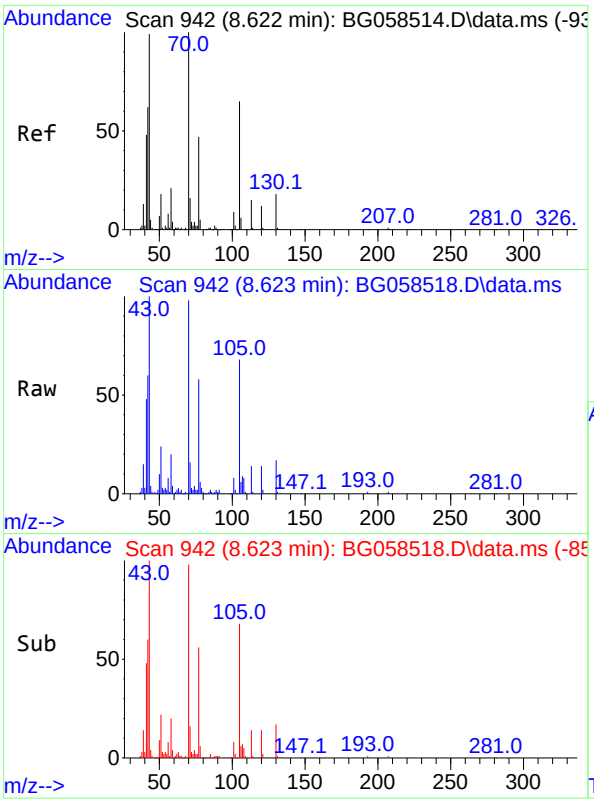


#18
Hexachloroethane
Concen: 40.711 ng
RT: 8.893 min Scan# 988
Delta R.T. 0.001 min
Lab File: BG058518.D
Acq: 28 Jul 2023 14:51

Tgt Ion:117 Resp: 52692

Ion	Ratio	Lower	Upper
117	100		
119	96.3	78.6	117.8
201	114.9	101.4	152.0



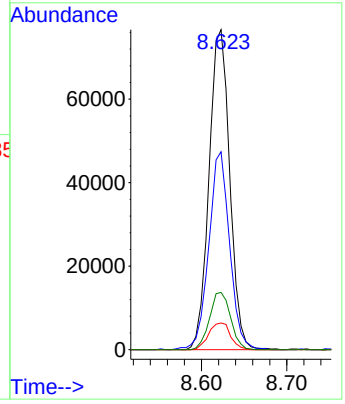


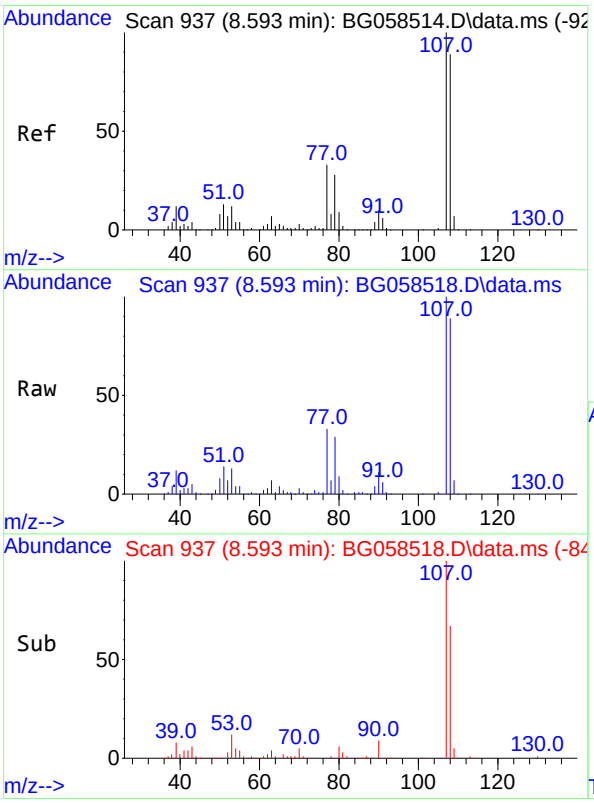
#19
n-Nitroso-di-n-propylamine
Concen: 42.521 ng
RT: 8.623 min Scan# 94
Delta R.T. 0.001 min
Lab File: BG058518.D
Acq: 28 Jul 2023 14:51

Instrument :
BNA_G
ClientSampleId :
ICVBG072823

Tgt Ion: 70 Resp: 129384

Ion	Ratio	Lower	Upper
70	100		
42	61.9	49.7	74.5
101	8.4	7.0	10.4
130	17.9	14.3	21.5

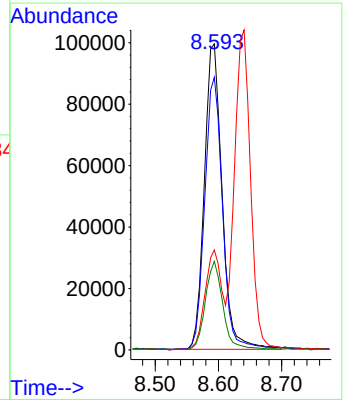


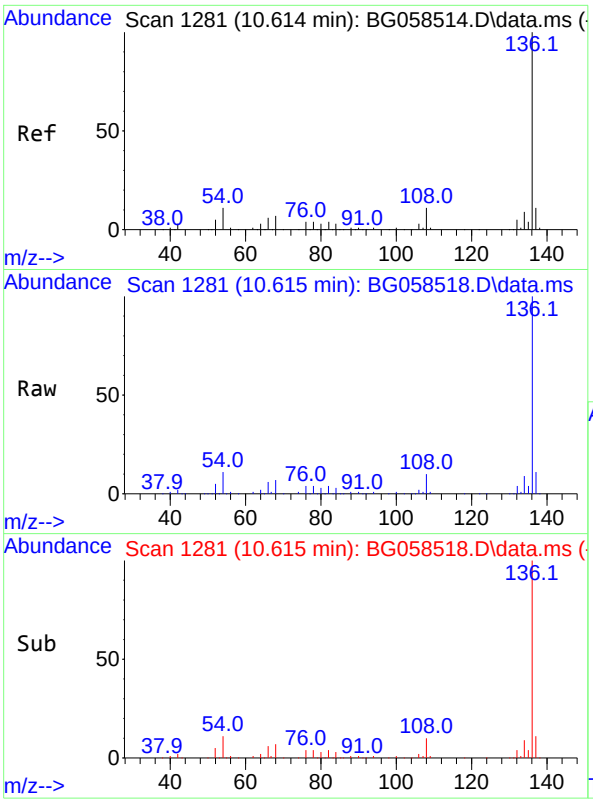


#20
3+4-Methylphenols
Concen: 42.621 ng
RT: 8.593 min Scan# 937
Delta R.T. 0.001 min
Lab File: BG058518.D
Acq: 28 Jul 2023 14:51

Tgt Ion:107 Resp: 193978

Ion	Ratio	Lower	Upper
107	100		
108	89.1	69.4	109.4
77	32.7	13.0	53.0
79	29.0	8.0	48.0



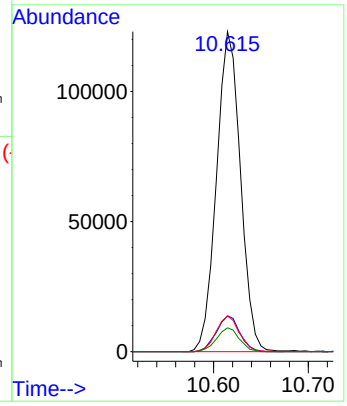


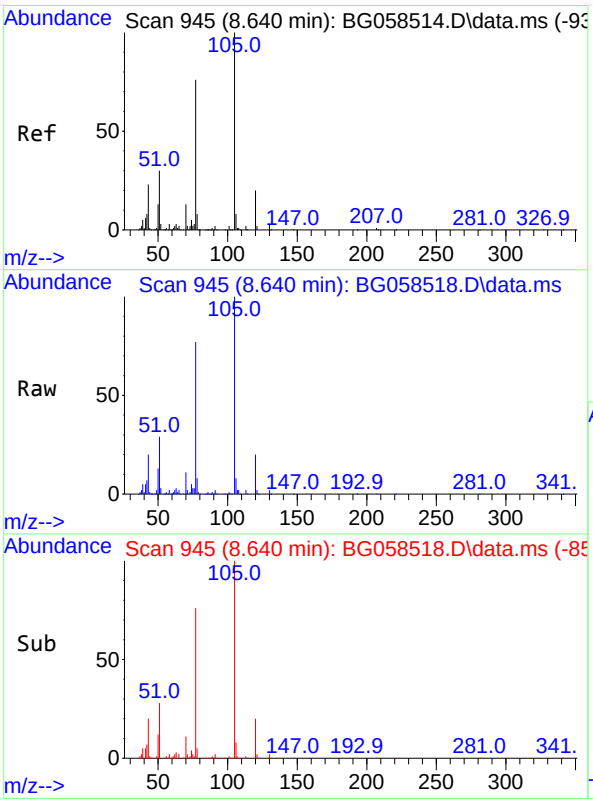
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.615 min Scan# 1
Delta R.T. 0.001 min
Lab File: BG058518.D
Acq: 28 Jul 2023 14:51

Instrument :
BNA_G
ClientSampleId :
ICVBG072823

Tgt Ion:136 Resp: 215971

Ion	Ratio	Lower	Upper
136	100		
137	11.2	8.6	13.0
54	11.2	8.9	13.3
68	7.5	5.6	8.4

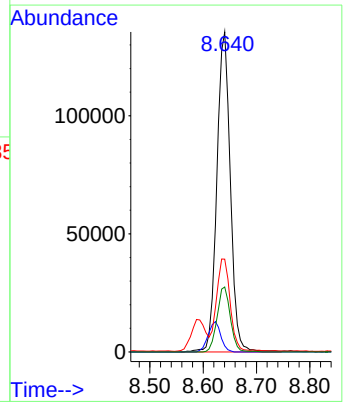


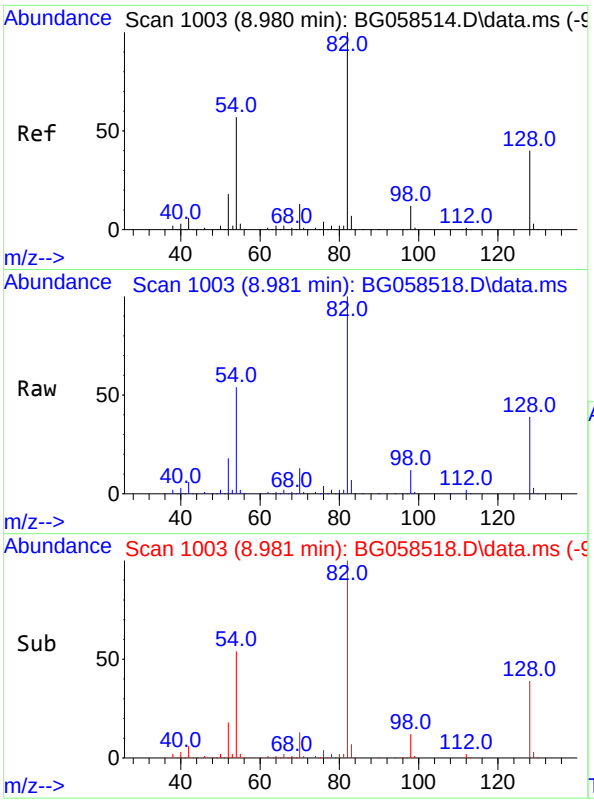


#22
Acetophenone
Concen: 41.116 ng
RT: 8.640 min Scan# 945
Delta R.T. 0.001 min
Lab File: BG058518.D
Acq: 28 Jul 2023 14:51

Tgt Ion:105 Resp: 237766

Ion	Ratio	Lower	Upper
105	100		
71	1.9	1.8	2.6
51	29.0	24.2	36.2
120	20.3	16.2	24.4



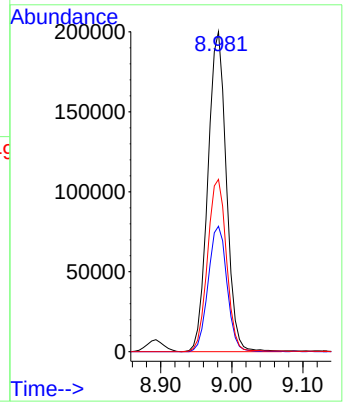


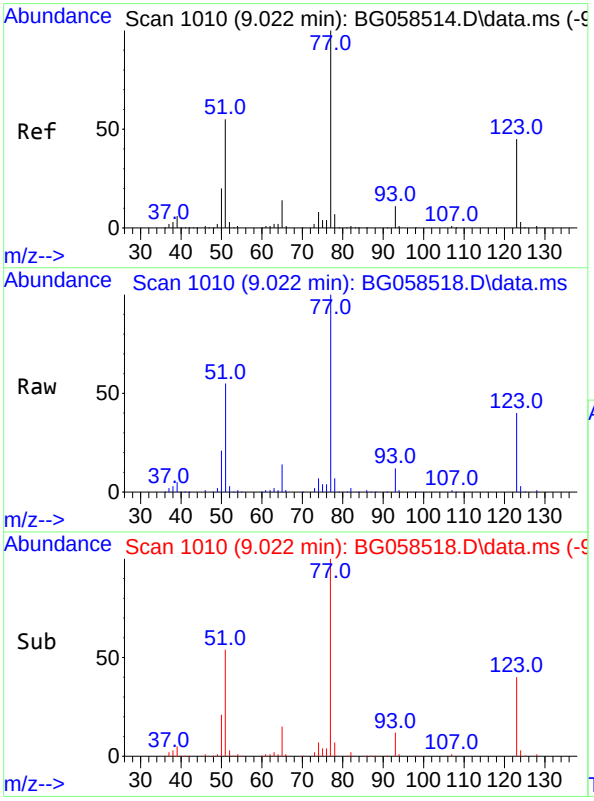
#23
Nitrobenzene-d5
Concen: 82.321 ng
RT: 8.981 min Scan# 1
Delta R.T. 0.001 min
Lab File: BG058518.D
Acq: 28 Jul 2023 14:51

Instrument :
BNA_G
ClientSampleId :
ICVBG072823

Tgt Ion: 82 Resp: 361909

Ion	Ratio	Lower	Upper
82	100		
128	39.2	32.2	48.2
54	53.8	46.0	69.0

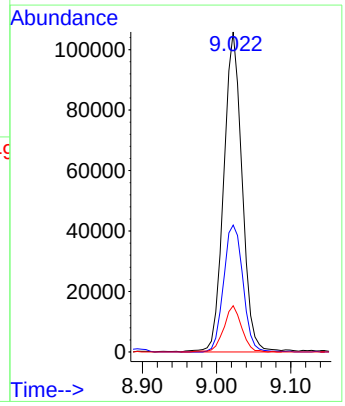


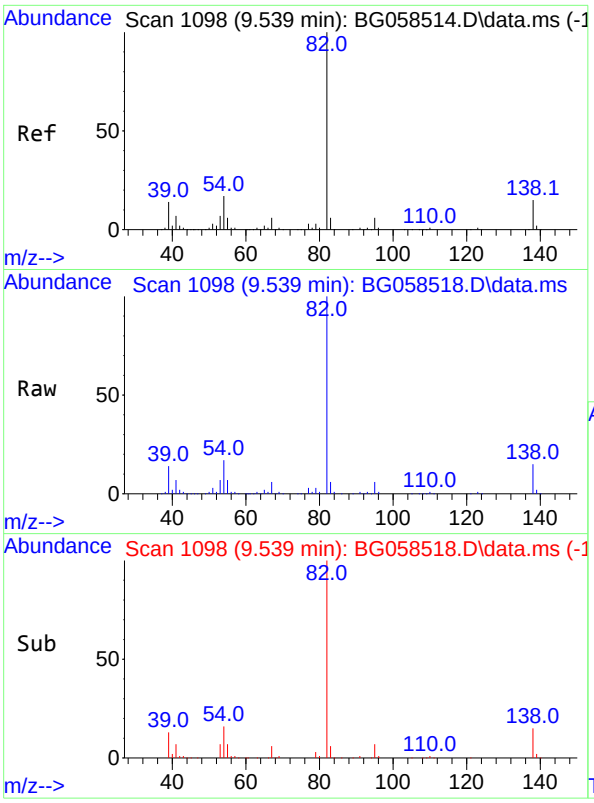


#24
Nitrobenzene
Concen: 40.699 ng
RT: 9.022 min Scan# 1010
Delta R.T. 0.001 min
Lab File: BG058518.D
Acq: 28 Jul 2023 14:51

Tgt Ion: 77 Resp: 181903

Ion	Ratio	Lower	Upper
77	100		
123	39.7	35.6	53.4
65	14.5	11.4	17.0



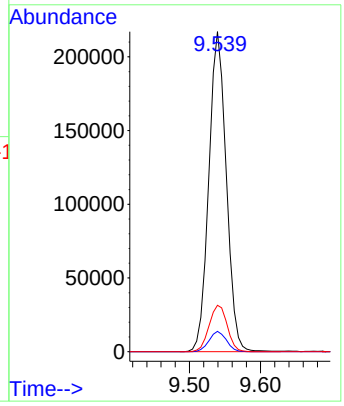


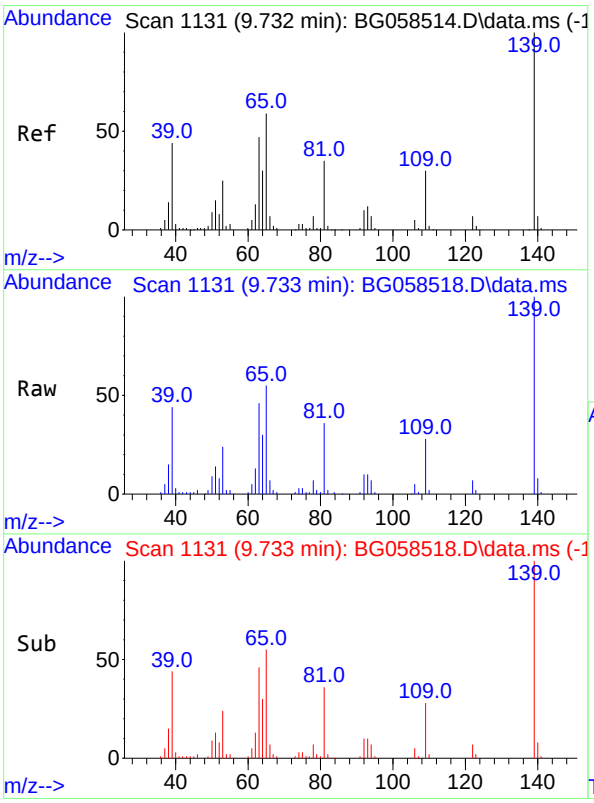
#25
Isophorone
Concen: 40.845 ng
RT: 9.539 min Scan# 1
Delta R.T. 0.001 min
Lab File: BG058518.D
Acq: 28 Jul 2023 14:51

Instrument :
BNA_G
ClientSampleId :
ICVBG072823

Tgt Ion: 82 Resp: 371016

Ion	Ratio	Lower	Upper
82	100		
95	6.3	5.1	7.7
138	14.5	11.9	17.9

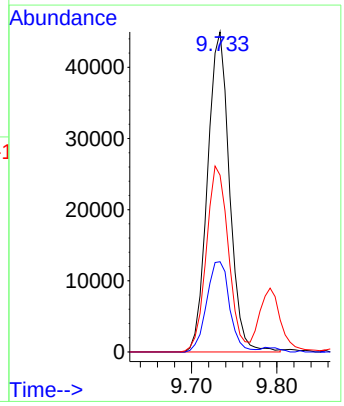


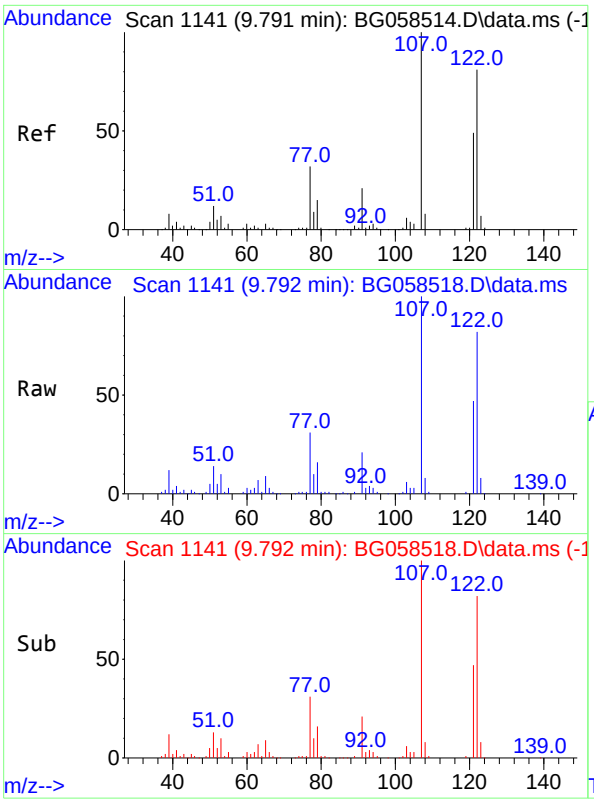


#26
2-Nitrophenol
Concen: 41.335 ng
RT: 9.733 min Scan# 1131
Delta R.T. 0.001 min
Lab File: BG058518.D
Acq: 28 Jul 2023 14:51

Tgt Ion:139 Resp: 80419

Ion	Ratio	Lower	Upper
139	100		
109	28.2	24.2	36.2
65	55.3	47.0	70.4



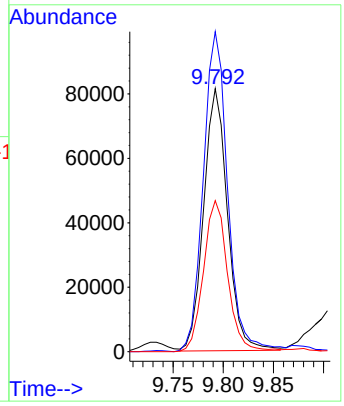


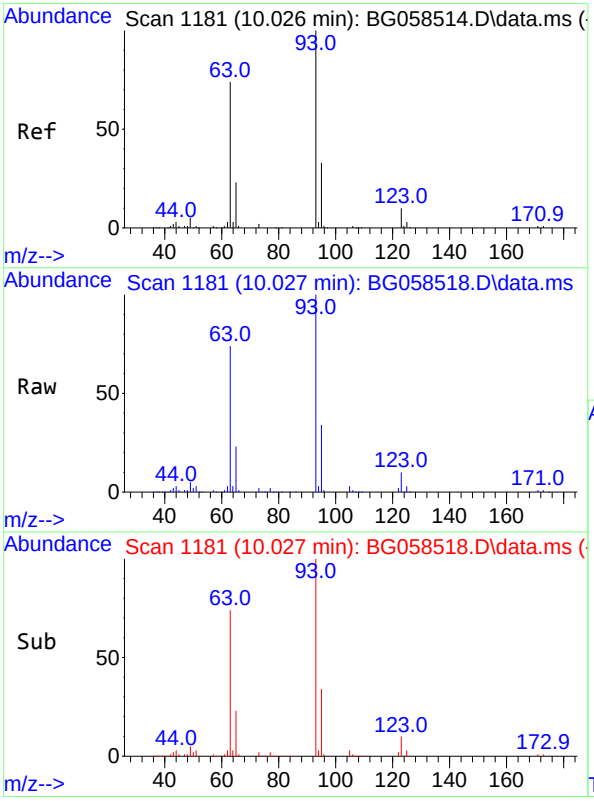
#27
2,4-Dimethylphenol
Concen: 41.759 ng
RT: 9.792 min Scan# 11
Delta R.T. 0.001 min
Lab File: BG058518.D
Acq: 28 Jul 2023 14:51

Instrument :
BNA_G
ClientSampleId :
ICVBG072823

Tgt Ion:122 Resp: 134763

Ion	Ratio	Lower	Upper
122	100		
107	121.7	98.0	147.0
121	57.4	47.8	71.6

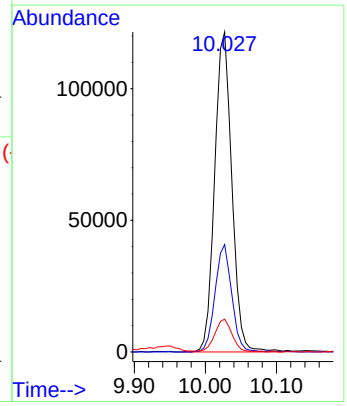


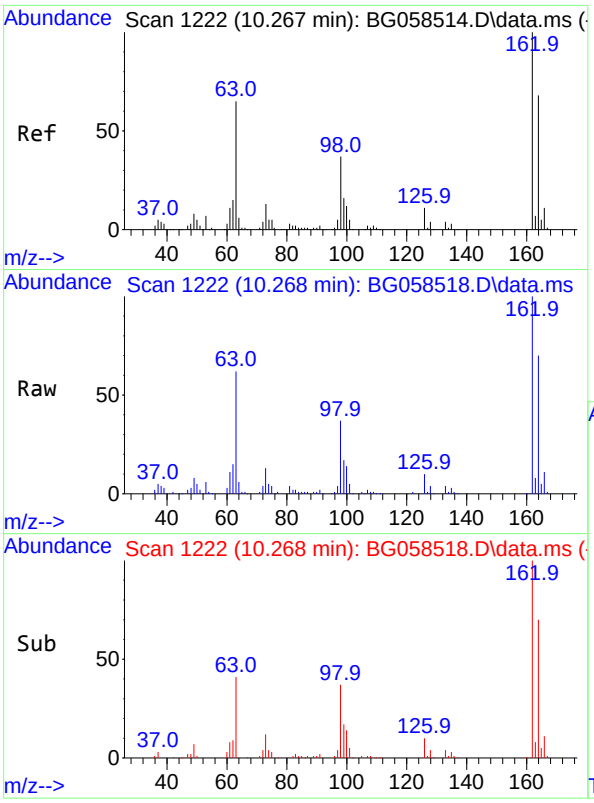


#28
bis(2-Chloroethoxy)methane
Concen: 41.199 ng
RT: 10.027 min Scan# 1181
Delta R.T. 0.001 min
Lab File: BG058518.D
Acq: 28 Jul 2023 14:51

Tgt Ion: 93 Resp: 203661

Ion	Ratio	Lower	Upper
93	100		
95	33.6	26.0	39.0
123	10.3	7.8	11.8



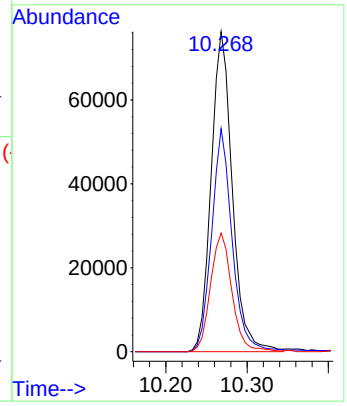


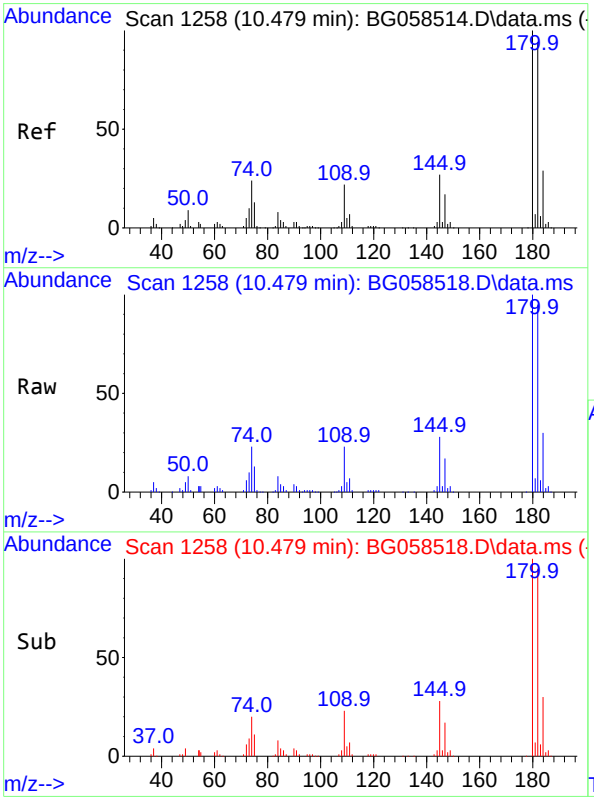
#29
2,4-Dichlorophenol
Concen: 41.072 ng
RT: 10.268 min Scan# 1
Delta R.T. 0.001 min
Lab File: BG058518.D
Acq: 28 Jul 2023 14:51

Instrument :
BNA_G
ClientSampleId :
ICVBG072823

Tgt Ion:162 Resp: 137620

Ion	Ratio	Lower	Upper
162	100		
164	69.7	47.6	87.6
98	37.1	17.1	57.1

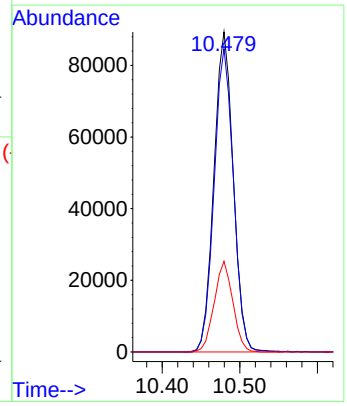


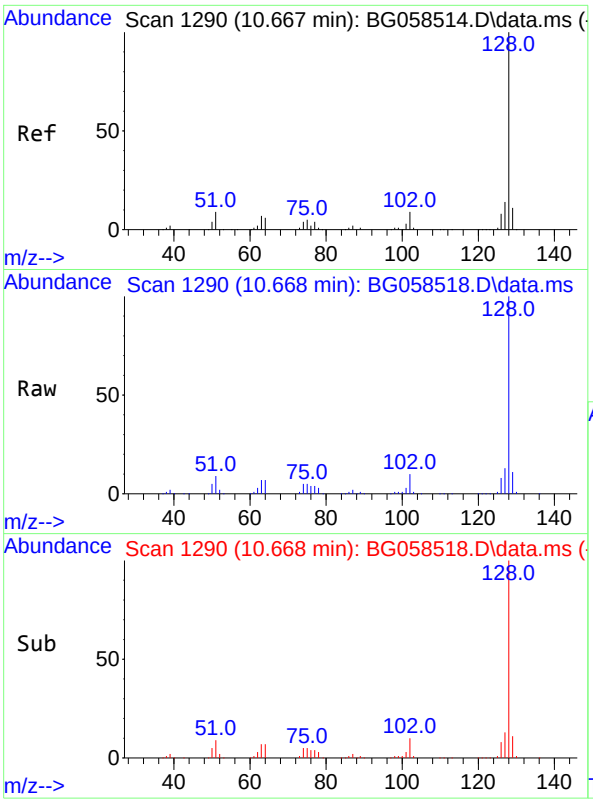


#30
1,2,4-Trichlorobenzene
Concen: 40.023 ng
RT: 10.479 min Scan# 1258
Delta R.T. 0.001 min
Lab File: BG058518.D
Acq: 28 Jul 2023 14:51

Tgt Ion:180 Resp: 154658

Ion	Ratio	Lower	Upper
180	100		
182	94.8	75.0	112.4
145	28.3	21.9	32.9



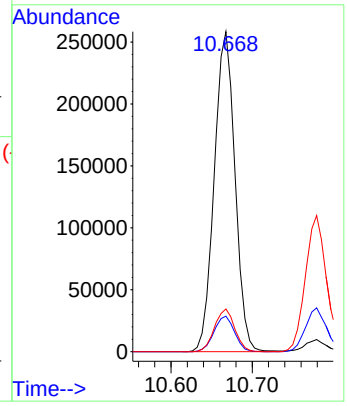


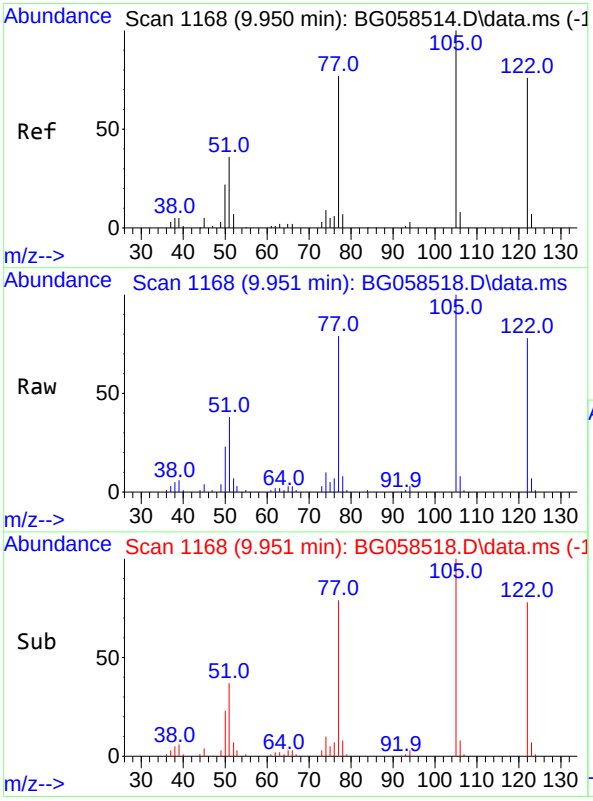
#31
Naphthalene
Concen: 40.188 ng
RT: 10.668 min Scan# 1
Delta R.T. 0.001 min
Lab File: BG058518.D
Acq: 28 Jul 2023 14:51

Instrument :
BNA_G
ClientSampleId :
ICVBG072823

Tgt Ion:128 Resp: 457459

Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.8	13.2
127	13.4	10.9	16.3

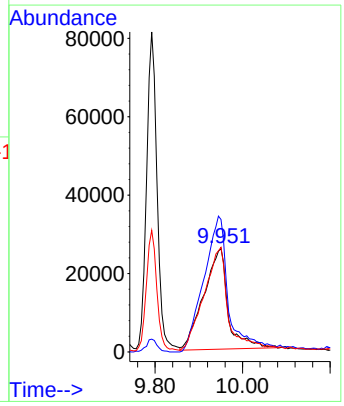


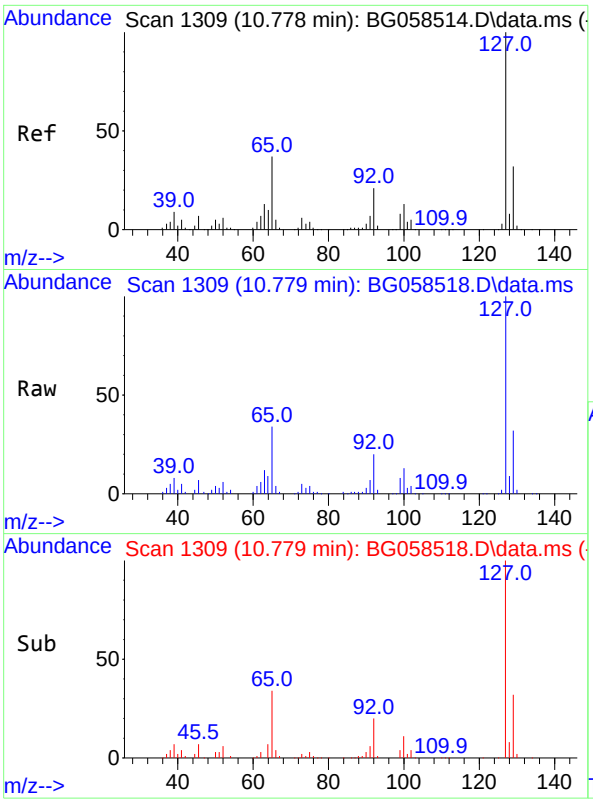


#32
Benzoic acid
Concen: 41.207 ng
RT: 9.951 min Scan# 1168
Delta R.T. 0.001 min
Lab File: BG058518.D
Acq: 28 Jul 2023 14:51

Tgt Ion:122 Resp: 99762

Ion	Ratio	Lower	Upper
122	100		
105	127.9	106.5	146.5
77	101.1	78.1	118.1



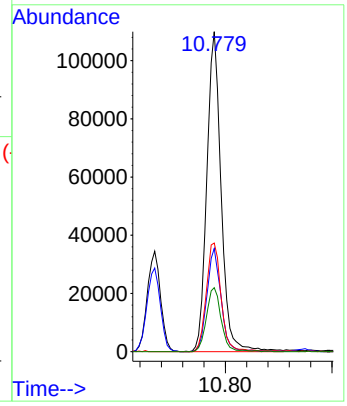


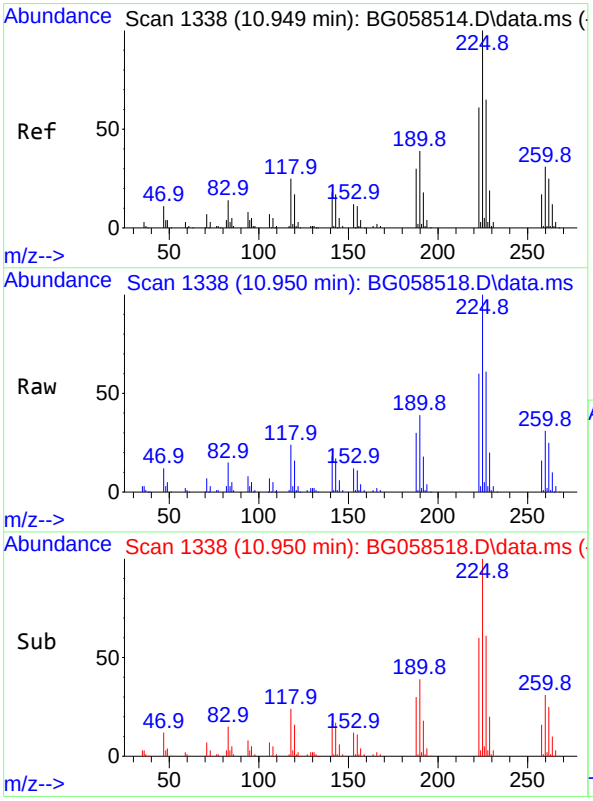
#33
4-Chloroaniline
Concen: 42.665 ng
RT: 10.779 min Scan# 1
Delta R.T. 0.001 min
Lab File: BG058518.D
Acq: 28 Jul 2023 14:51

Instrument :
BNA_G
ClientSampleId :
ICVBG072823

Tgt Ion:127 Resp: 205191

Ion	Ratio	Lower	Upper
127	100		
129	32.2	25.4	38.2
65	33.9	29.5	44.3
92	20.0	16.6	24.8

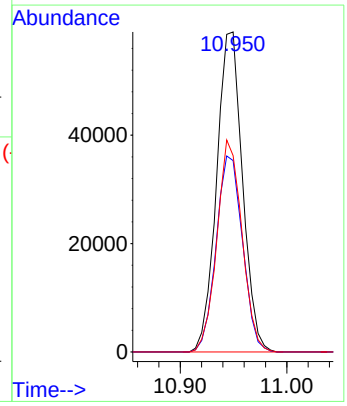


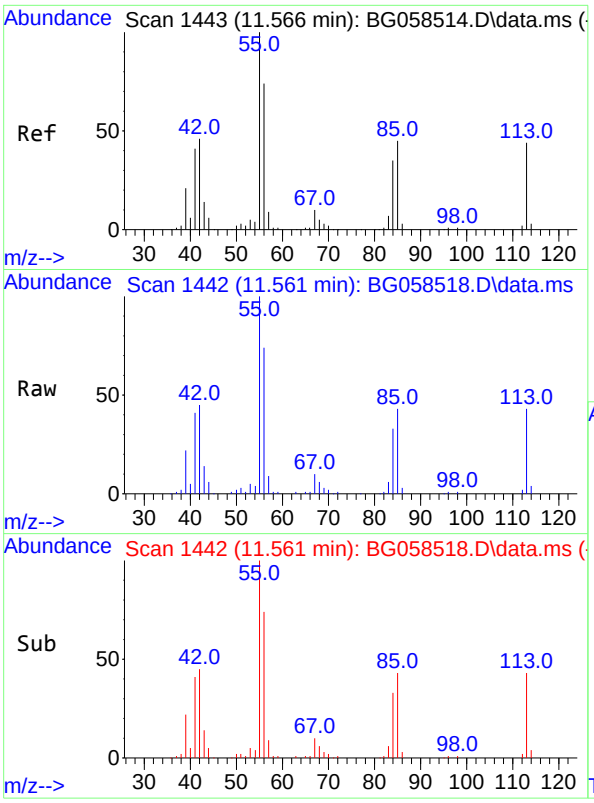


#34
Hexachlorobutadiene
Concen: 39.950 ng
RT: 10.950 min Scan# 1338
Delta R.T. 0.001 min
Lab File: BG058518.D
Acq: 28 Jul 2023 14:51

Tgt Ion:225 Resp: 99417

Ion	Ratio	Lower	Upper
225	100		
223	59.8	49.0	73.6
227	61.4	51.7	77.5



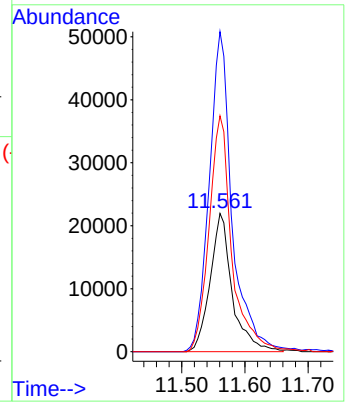


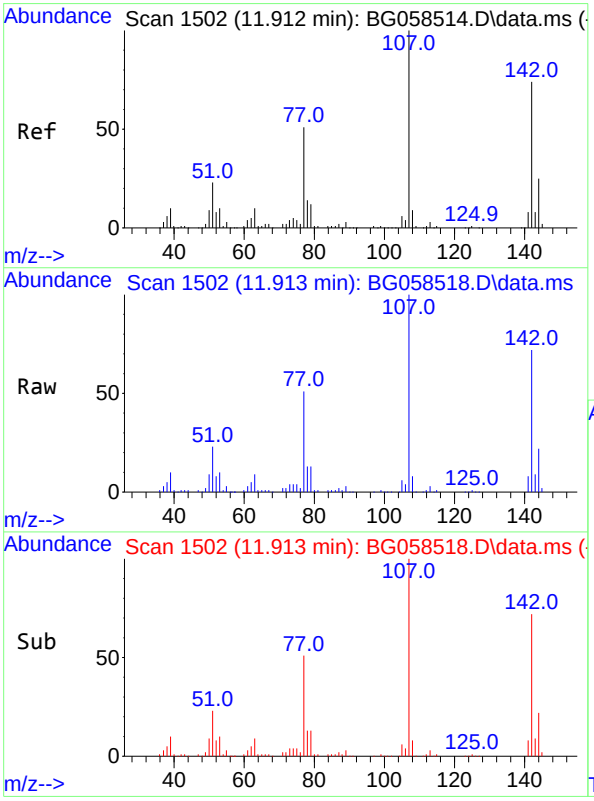
#35
Caprolactam
Concen: 43.070 ng
RT: 11.561 min Scan# 14
Delta R.T. -0.005 min
Lab File: BG058518.D
Acq: 28 Jul 2023 14:51

Instrument :
BNA_G
ClientSampleId :
ICVBG072823

Tgt Ion:113 Resp: 53292

Ion	Ratio	Lower	Upper
113	100		
55	231.4	208.0	248.0
56	170.5	148.6	188.6

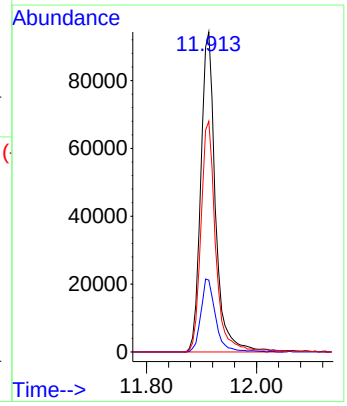


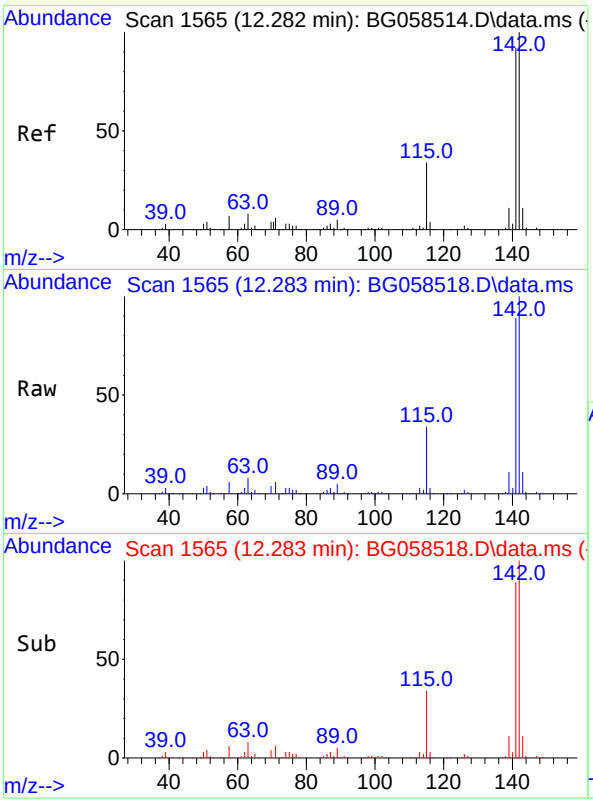


#36
4-Chloro-3-methylphenol
Concen: 42.127 ng
RT: 11.913 min Scan# 1502
Delta R.T. 0.001 min
Lab File: BG058518.D
Acq: 28 Jul 2023 14:51

Tgt Ion:107 Resp: 174615

Ion	Ratio	Lower	Upper
107	100		
144	22.5	19.6	29.4
142	72.1	59.3	88.9



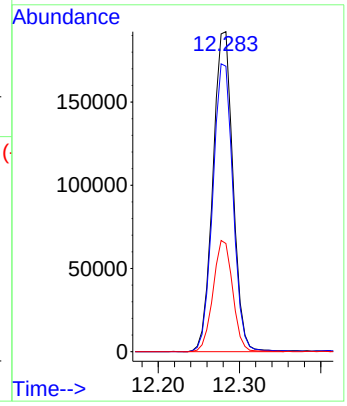


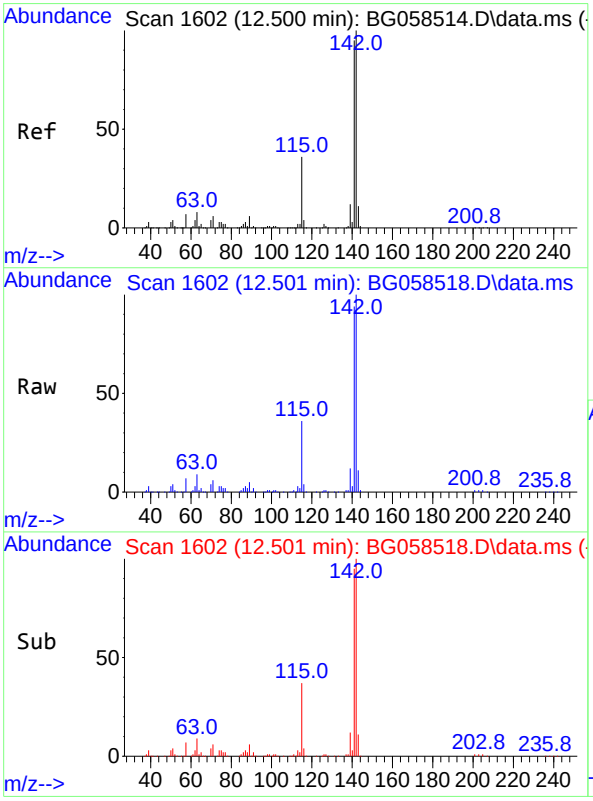
#37
2-Methylnaphthalene
Concen: 40.513 ng
RT: 12.283 min Scan# 1
Delta R.T. 0.001 min
Lab File: BG058518.D
Acq: 28 Jul 2023 14:51

Instrument :
BNA_G
ClientSampleId :
ICVBG072823

Tgt Ion:142 Resp: 329875

Ion	Ratio	Lower	Upper
142	100		
141	89.2	73.5	110.3
115	33.8	27.4	41.0

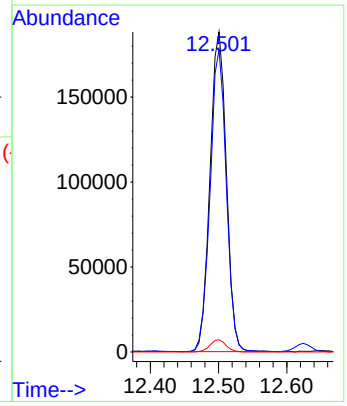


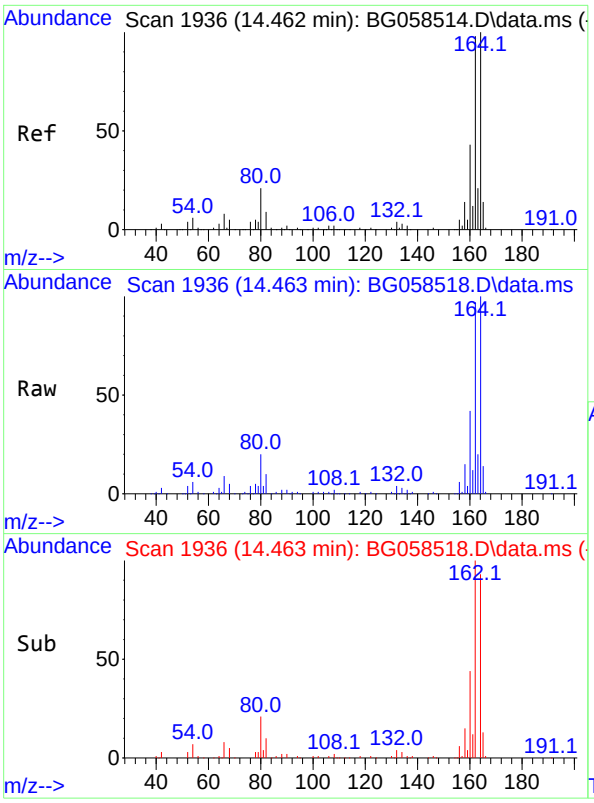


#38
1-Methylnaphthalene
Concen: 40.616 ng
RT: 12.501 min Scan# 1602
Delta R.T. 0.001 min
Lab File: BG058518.D
Acq: 28 Jul 2023 14:51

Tgt Ion:142 Resp: 314371

Ion	Ratio	Lower	Upper
142	100		
141	94.5	75.7	113.5
116	3.8	3.2	4.8



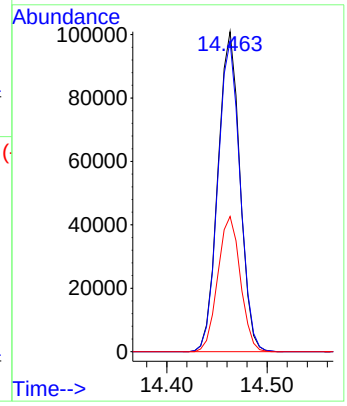


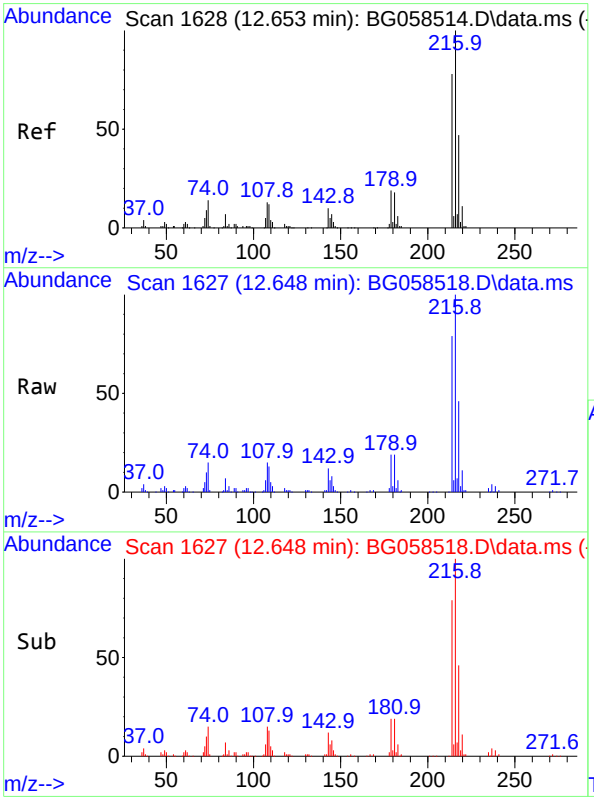
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.463 min Scan# 1
Delta R.T. 0.001 min
Lab File: BG058518.D
Acq: 28 Jul 2023 14:51

Instrument :
BNA_G
ClientSampleId :
ICVBG072823

Tgt Ion:164 Resp: 153165

Ion	Ratio	Lower	Upper
164	100		
162	97.0	78.3	117.5
160	42.2	34.1	51.1

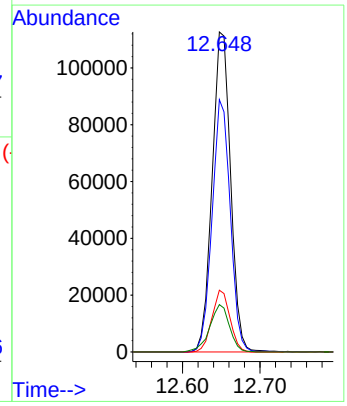


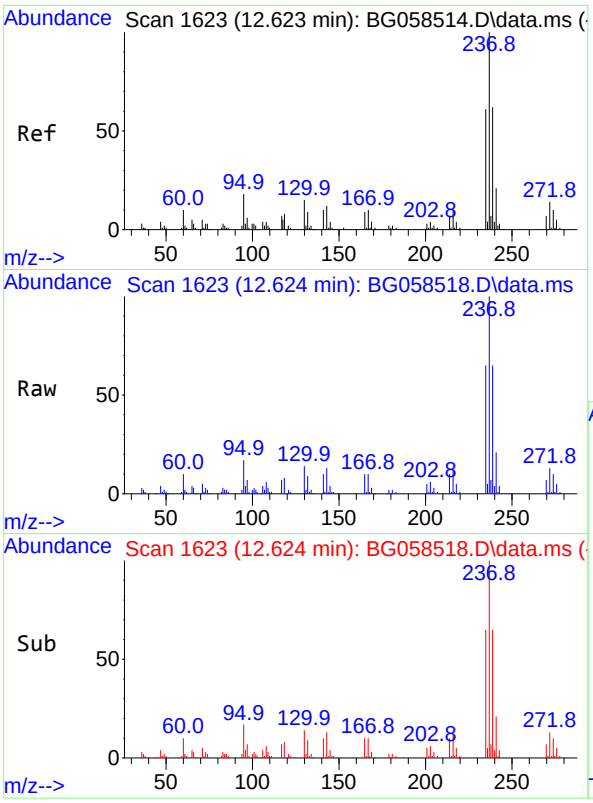


#40
1,2,4,5-Tetrachlorobenzene
Concen: 39.557 ng
RT: 12.648 min Scan# 1627
Delta R.T. -0.005 min
Lab File: BG058518.D
Acq: 28 Jul 2023 14:51

Tgt Ion:216 Resp: 186011

Ion	Ratio	Lower	Upper
216	100		
214	77.7	63.1	94.7
179	18.8	15.6	23.4
108	15.9	12.7	19.1



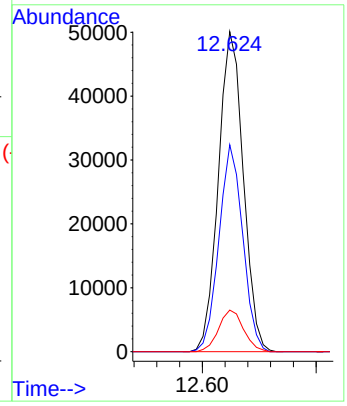


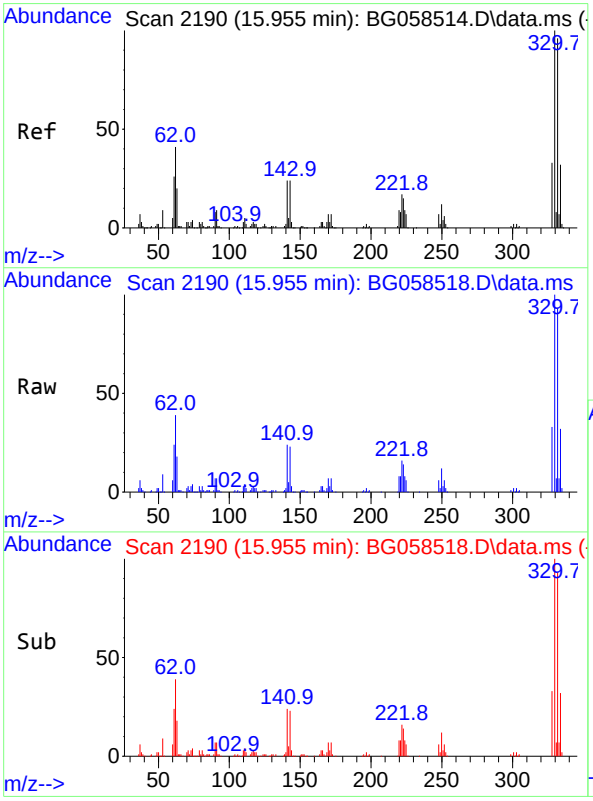
#41
Hexachlorocyclopentadiene
Concen: 38.726 ng
RT: 12.624 min Scan# 1
Delta R.T. 0.001 min
Lab File: BG058518.D
Acq: 28 Jul 2023 14:51

Instrument :
BNA_G
ClientSampleId :
ICVBG072823

Tgt Ion:237 Resp: 76190

Ion	Ratio	Lower	Upper
237	100		
235	64.7	41.0	81.0
272	13.0	0.0	33.6

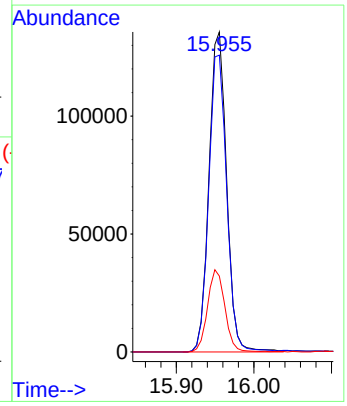


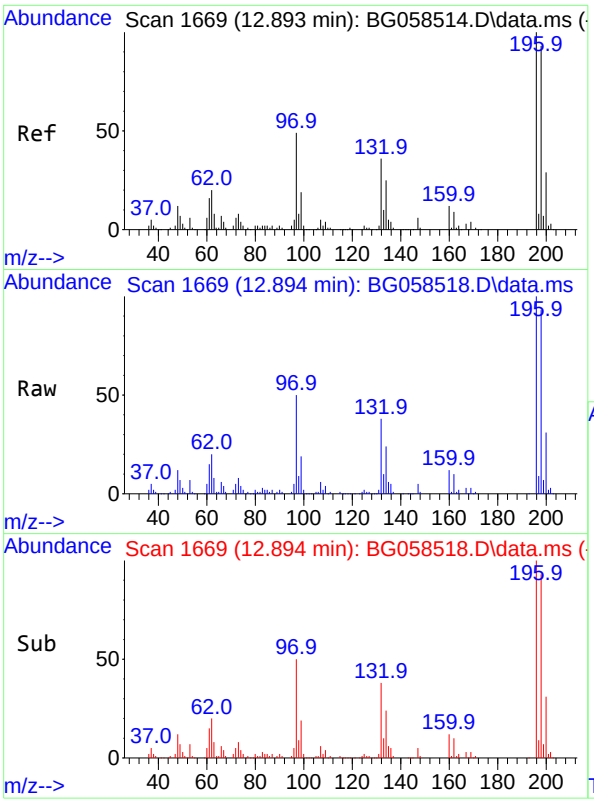


#42
2,4,6-Tribromophenol
Concen: 85.119 ng
RT: 15.955 min Scan# 2190
Delta R.T. 0.001 min
Lab File: BG058518.D
Acq: 28 Jul 2023 14:51

Tgt Ion:330 Resp: 213691

Ion	Ratio	Lower	Upper
330	100		
332	94.7	77.5	116.3
141	25.5	20.7	31.1



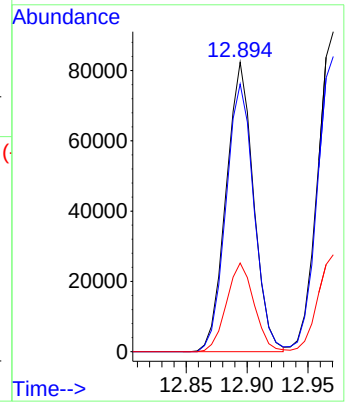


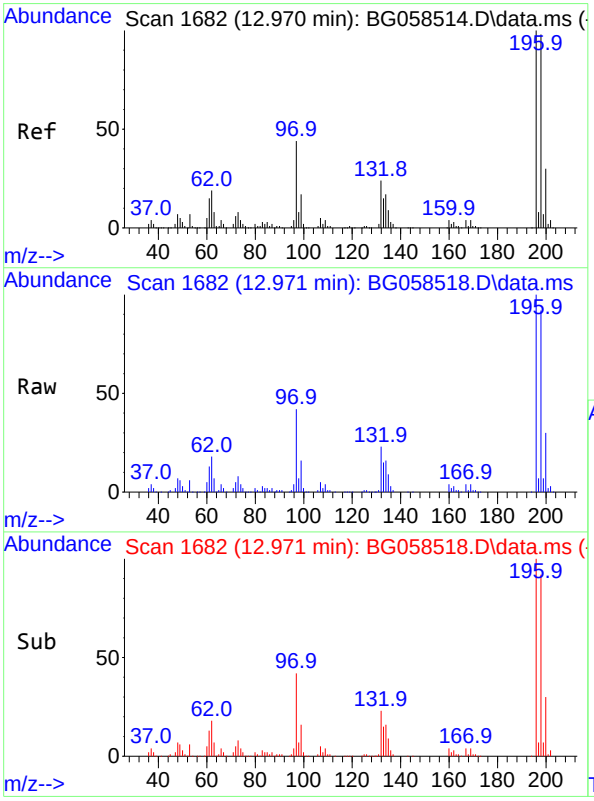
#43
2,4,6-Trichlorophenol
Concen: 39.884 ng
RT: 12.894 min Scan# 1
Delta R.T. 0.001 min
Lab File: BG058518.D
Acq: 28 Jul 2023 14:51

Instrument :
BNA_G
ClientSampleId :
ICVBG072823

Tgt Ion:196 Resp: 128998

Ion	Ratio	Lower	Upper
196	100		
198	92.5	74.2	111.4
200	30.6	22.9	34.3

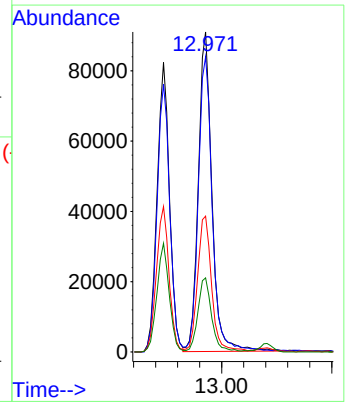


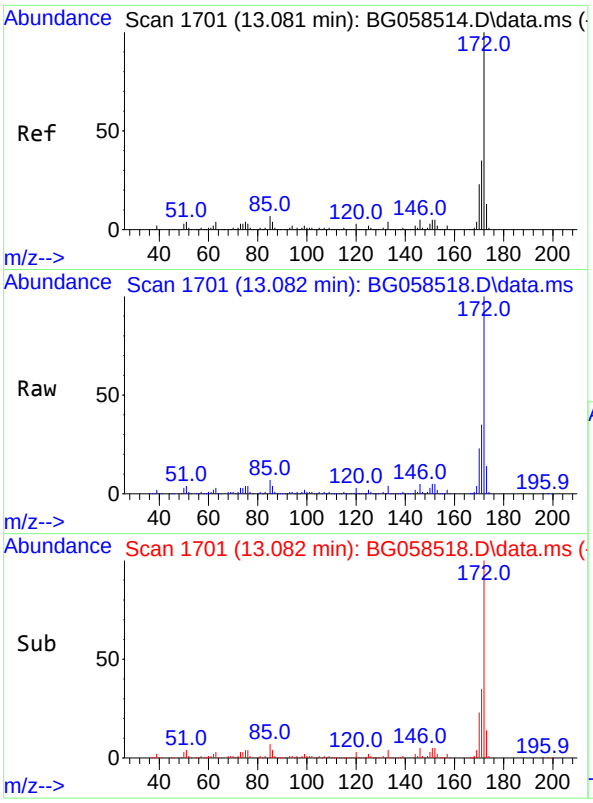


#44
2,4,5-Trichlorophenol
Concen: 40.946 ng
RT: 12.971 min Scan# 1682
Delta R.T. 0.001 min
Lab File: BG058518.D
Acq: 28 Jul 2023 14:51

Tgt Ion:196 Resp: 155986

Ion	Ratio	Lower	Upper
196	100		
198	92.3	78.3	117.5
97	42.4	35.2	52.8
132	23.2	19.4	29.0



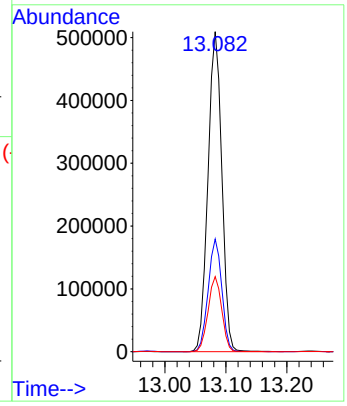


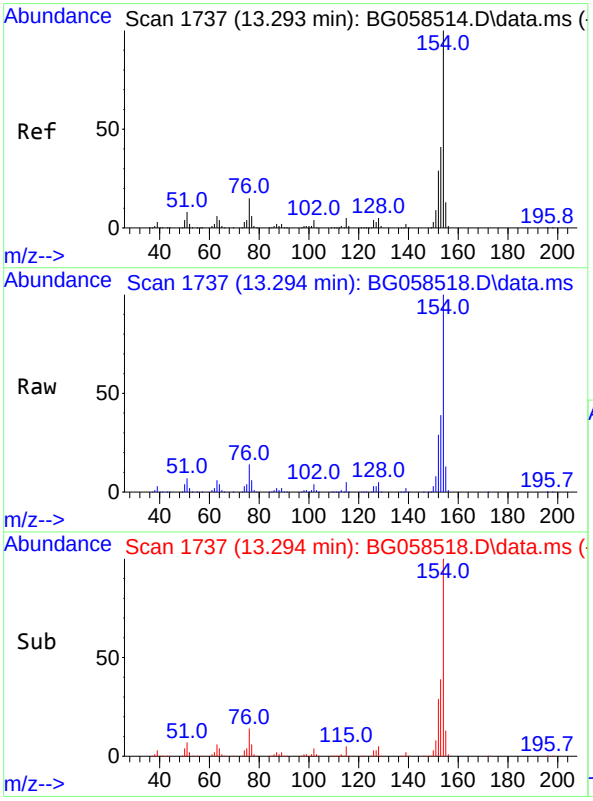
#45
2-Fluorobiphenyl
Concen: 78.572 ng
RT: 13.082 min Scan# 1
Delta R.T. 0.001 min
Lab File: BG058518.D
Acq: 28 Jul 2023 14:51

Instrument :
BNA_G
ClientSampleId :
ICVBG072823

Tgt Ion:172 Resp: 803056

Ion	Ratio	Lower	Upper
172	100		
171	35.2	28.0	42.0
170	23.5	18.4	27.6

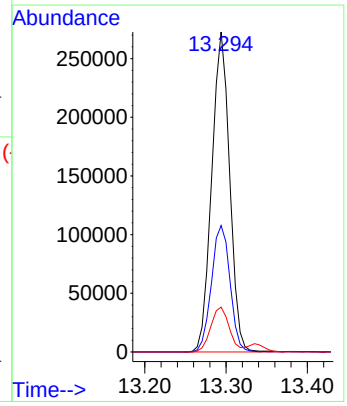


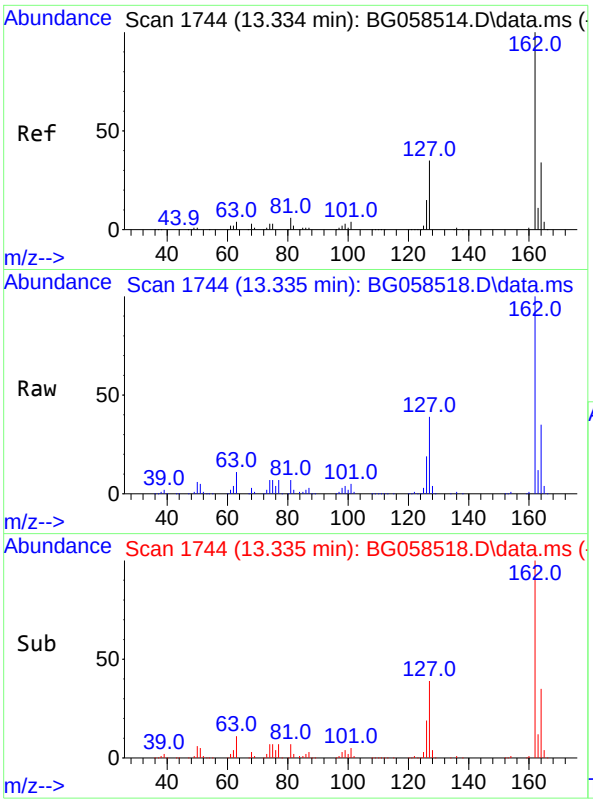


#46
1,1'-Biphenyl
Concen: 39.637 ng
RT: 13.294 min Scan# 1737
Delta R.T. 0.001 min
Lab File: BG058518.D
Acq: 28 Jul 2023 14:51

Tgt Ion:154 Resp: 416925

Ion	Ratio	Lower	Upper
154	100		
153	39.5	21.2	61.2
76	14.0	0.0	34.7



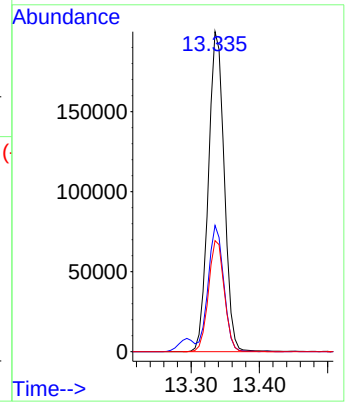


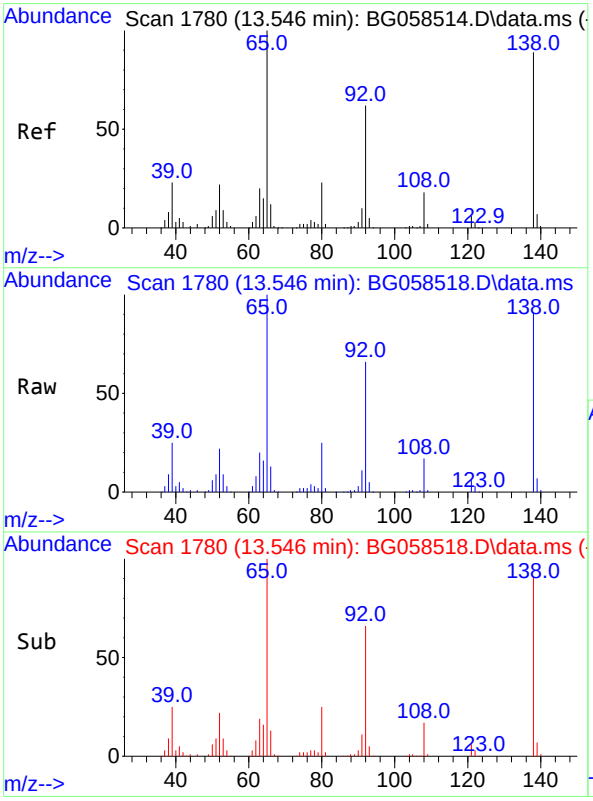
#47
2-Chloronaphthalene
Concen: 39.427 ng
RT: 13.335 min Scan# 1
Delta R.T. 0.001 min
Lab File: BG058518.D
Acq: 28 Jul 2023 14:51

Instrument :
BNA_G
ClientSampleId :
ICVBG072823

Tgt Ion:162 Resp: 323358

Ion	Ratio	Lower	Upper
162	100		
127	39.4	30.9	46.3
164	34.7	27.2	40.8

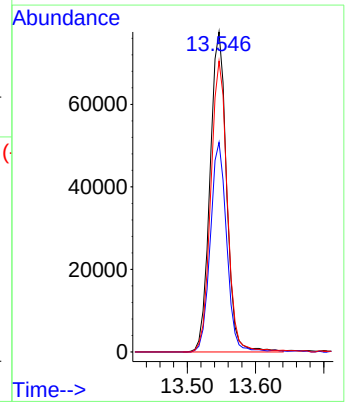


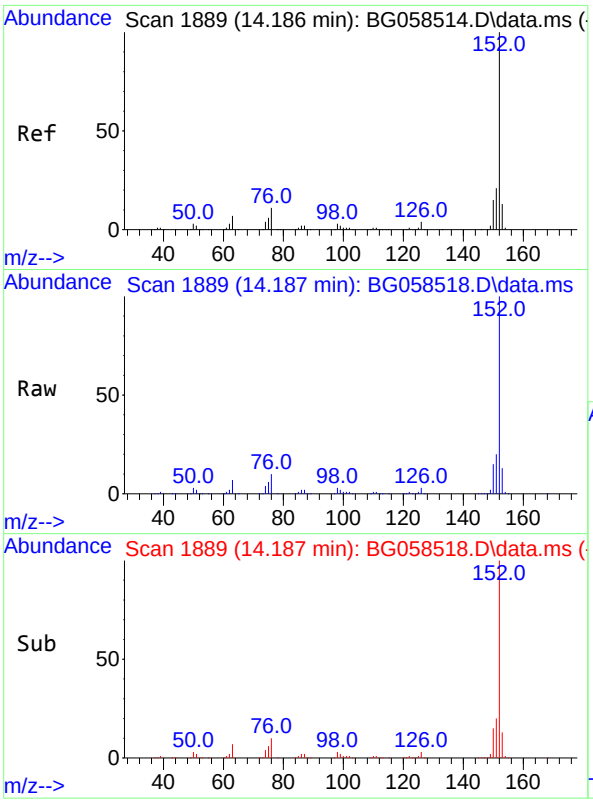


#48
2-Nitroaniline
Concen: 41.985 ng
RT: 13.546 min Scan# 1780
Delta R.T. 0.001 min
Lab File: BG058518.D
Acq: 28 Jul 2023 14:51

Tgt Ion: 65 Resp: 131430

Ion	Ratio	Lower	Upper
65	100		
92	65.5	49.2	73.8
138	90.9	71.5	107.3



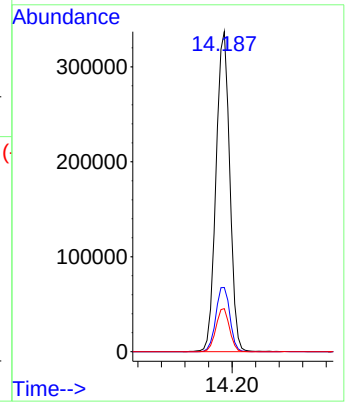


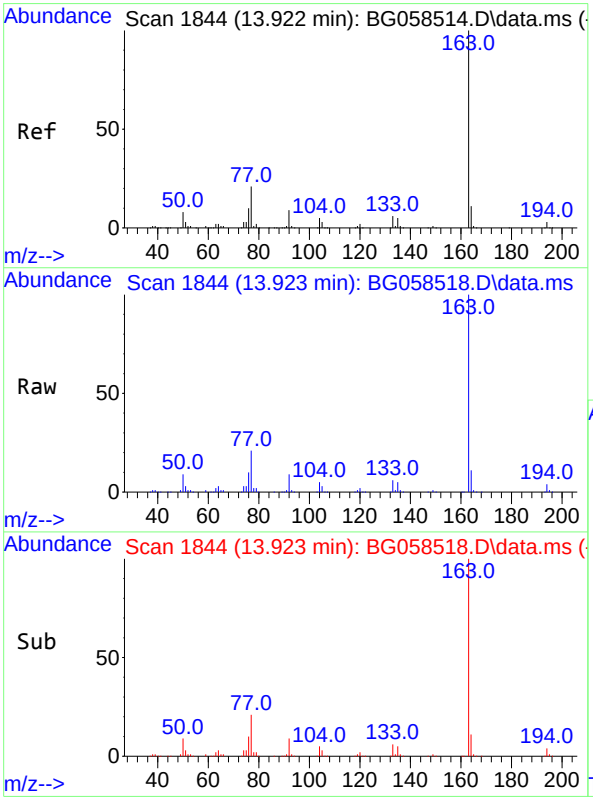
#49
Acenaphthylene
Concen: 39.693 ng
RT: 14.187 min Scan# 1
Delta R.T. 0.001 min
Lab File: BG058518.D
Acq: 28 Jul 2023 14:51

Instrument :
BNA_G
ClientSampleId :
ICVBG072823

Tgt Ion:152 Resp: 545029

Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.5	24.7
153	13.4	10.7	16.1

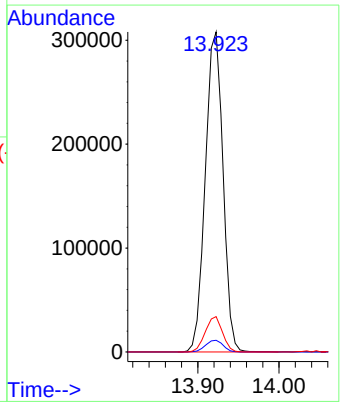


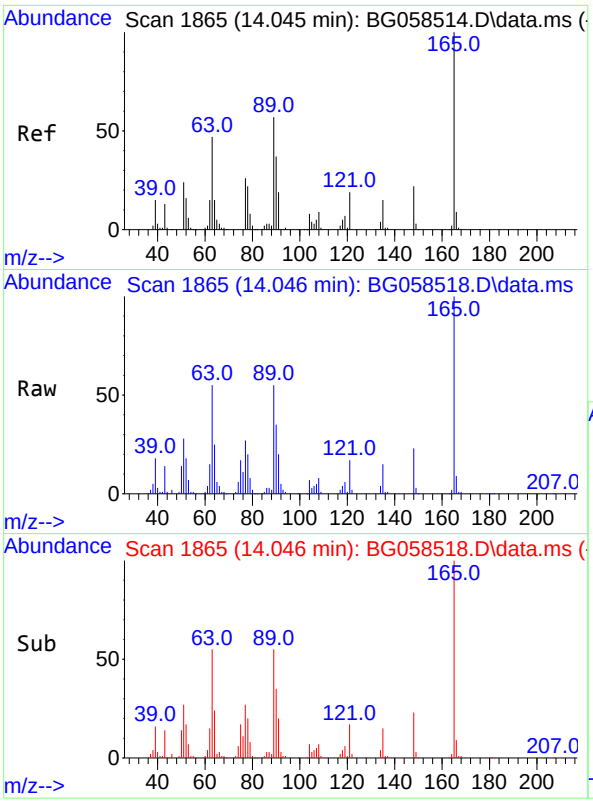


#50
Dimethylphthalate
Concen: 40.429 ng
RT: 13.923 min Scan# 1844
Delta R.T. 0.001 min
Lab File: BG058518.D
Acq: 28 Jul 2023 14:51

Tgt Ion:163 Resp: 465059

Ion	Ratio	Lower	Upper
163	100		
194	3.6	2.7	4.1
164	11.1	8.6	12.8



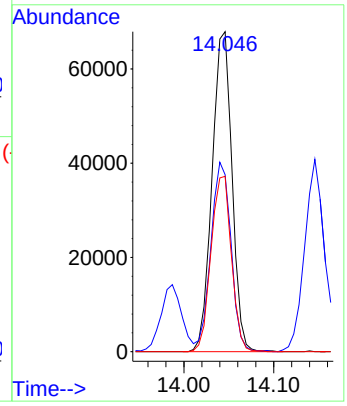


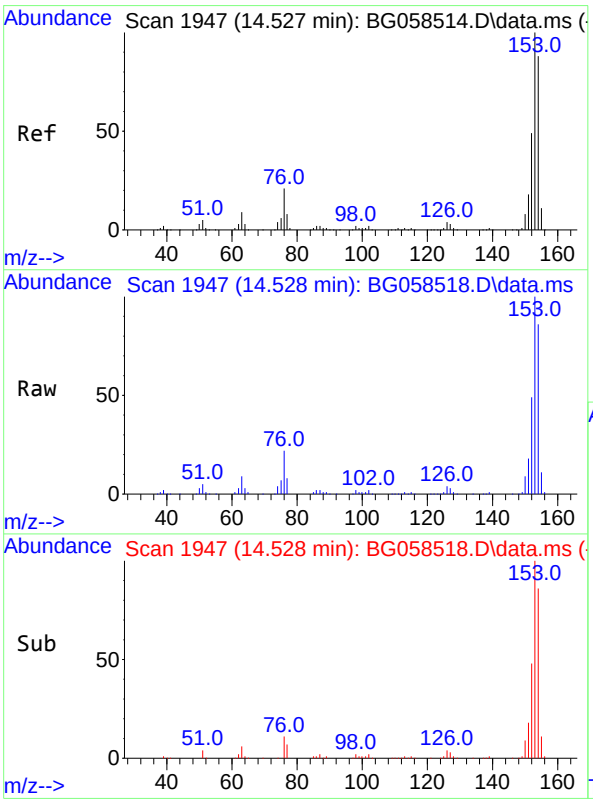
#51
2,6-Dinitrotoluene
Concen: 41.433 ng
RT: 14.046 min Scan# 1
Delta R.T. 0.001 min
Lab File: BG058518.D
Acq: 28 Jul 2023 14:51

Instrument :
BNA_G
ClientSampleId :
ICVBG072823

Tgt Ion:165 Resp: 104577

Ion	Ratio	Lower	Upper
165	100		
63	55.3	46.4	69.6
89	54.8	45.3	67.9

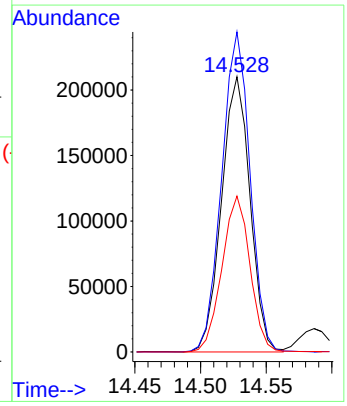


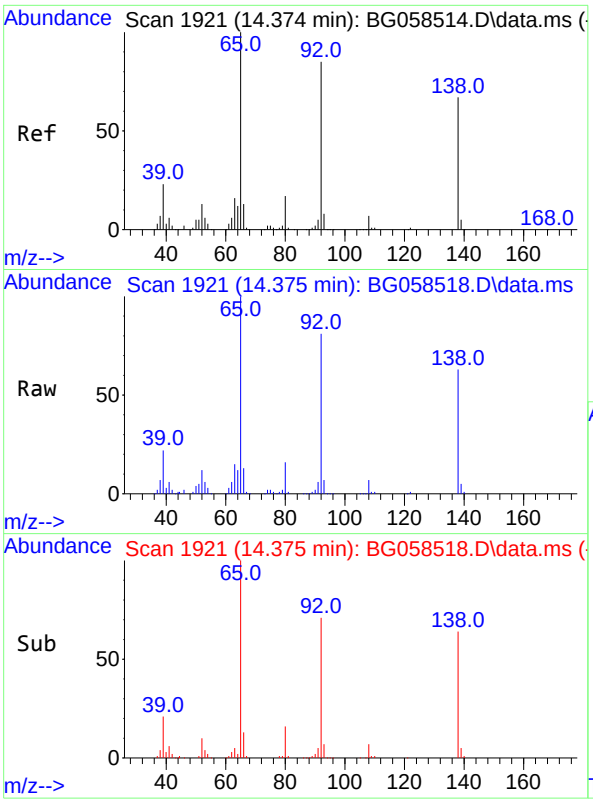


#52
Acenaphthene
Concen: 40.041 ng
RT: 14.528 min Scan# 1947
Delta R.T. 0.001 min
Lab File: BG058518.D
Acq: 28 Jul 2023 14:51

Tgt Ion:154 Resp: 317685

Ion	Ratio	Lower	Upper
154	100		
153	116.3	91.1	136.7
152	56.6	44.6	66.8



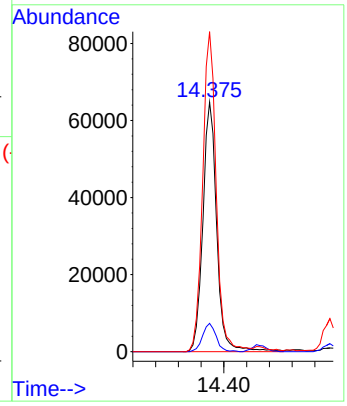


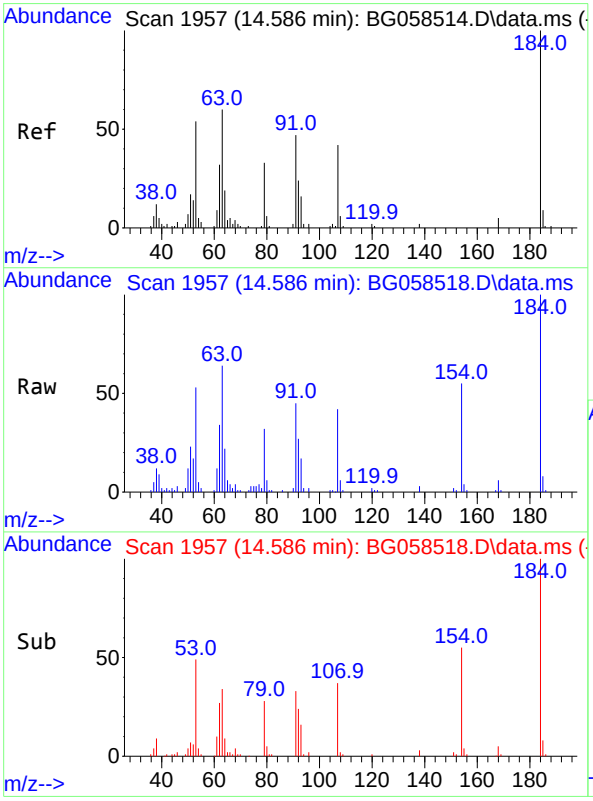
#53
3-Nitroaniline
Concen: 43.448 ng
RT: 14.375 min Scan# 1
Delta R.T. 0.001 min
Lab File: BG058518.D
Acq: 28 Jul 2023 14:51

Instrument :
BNA_G
ClientSampleId :
ICVBG072823

Tgt Ion:138 Resp: 109717

Ion	Ratio	Lower	Upper
138	100		
108	11.4	8.3	12.5
92	128.2	101.1	151.7

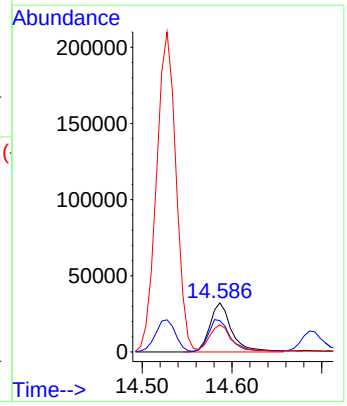


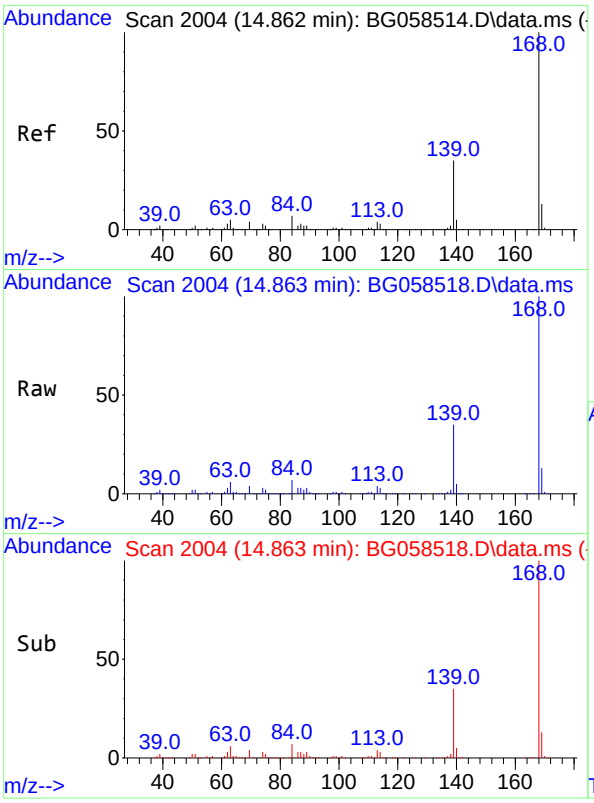


#54
2,4-Dinitrophenol
Concen: 41.862 ng
RT: 14.586 min Scan# 1957
Delta R.T. 0.000 min
Lab File: BG058518.D
Acq: 28 Jul 2023 14:51

Tgt Ion:184 Resp: 53962

Ion	Ratio	Lower	Upper
184	100		
63	64.0	56.7	85.1
154	55.3	46.1	69.1



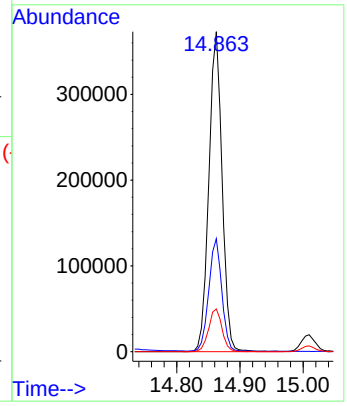


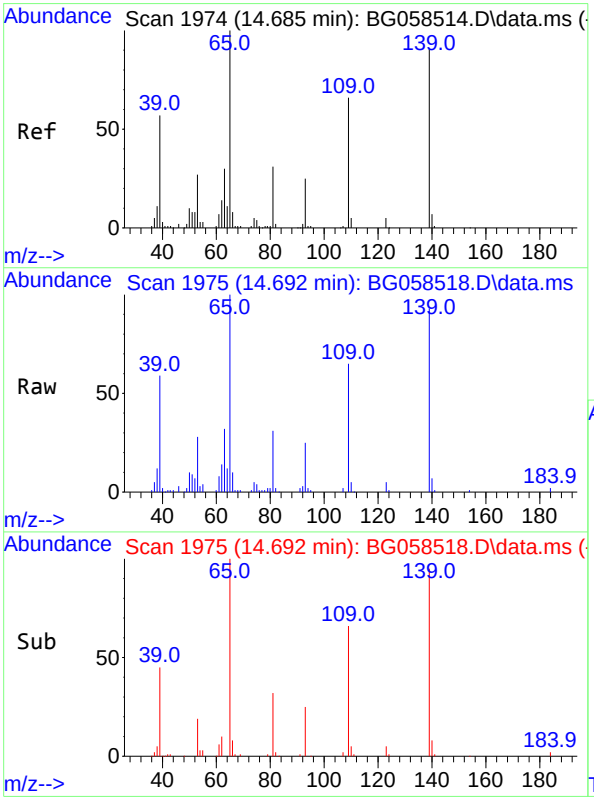
#55
Dibenzofuran
Concen: 39.837 ng
RT: 14.863 min Scan# 2
Delta R.T. 0.001 min
Lab File: BG058518.D
Acq: 28 Jul 2023 14:51

Instrument :
BNA_G
ClientSampleId :
ICVBG072823

Tgt Ion:168 Resp: 543117

Ion	Ratio	Lower	Upper
168	100		
139	35.3	27.8	41.8
169	13.3	10.6	16.0

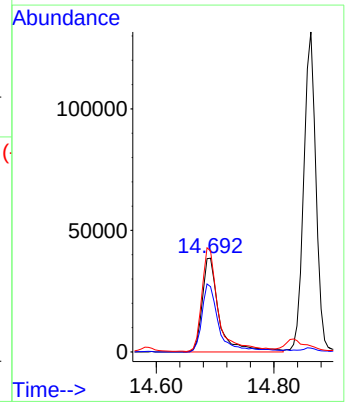


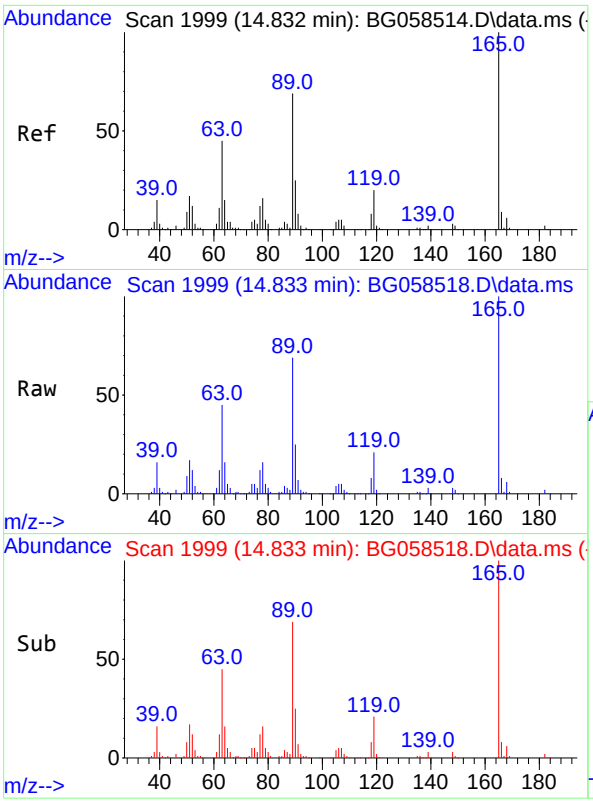


#56
4-Nitrophenol
Concen: 42.888 ng
RT: 14.692 min Scan# 1975
Delta R.T. 0.007 min
Lab File: BG058518.D
Acq: 28 Jul 2023 14:51

Tgt Ion:139 Resp: 77239

Ion	Ratio	Lower	Upper
139	100		
109	69.6	52.5	92.5
65	107.8	90.5	130.5



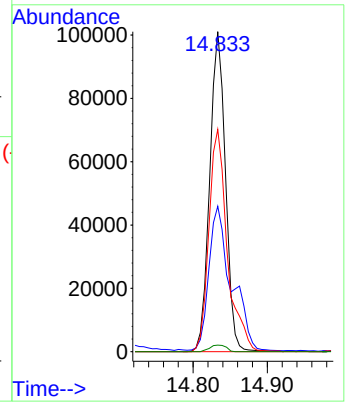


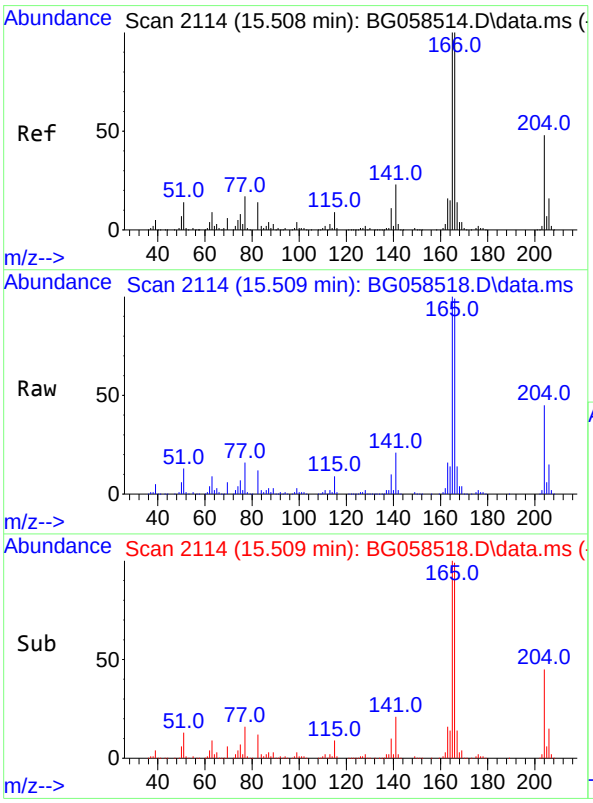
#57
2,4-Dinitrotoluene
Concen: 42.691 ng
RT: 14.833 min Scan# 1
Delta R.T. 0.001 min
Lab File: BG058518.D
Acq: 28 Jul 2023 14:51

Instrument :
BNA_G
ClientSampleId :
ICVBG072823

Tgt Ion:165 Resp: 149382

Ion	Ratio	Lower	Upper
165	100		
63	45.4	36.6	54.8
89	69.4	55.4	83.0
182	2.1	1.8	2.6

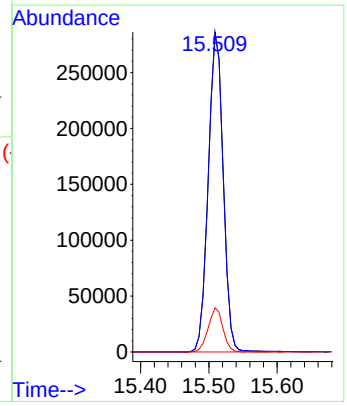


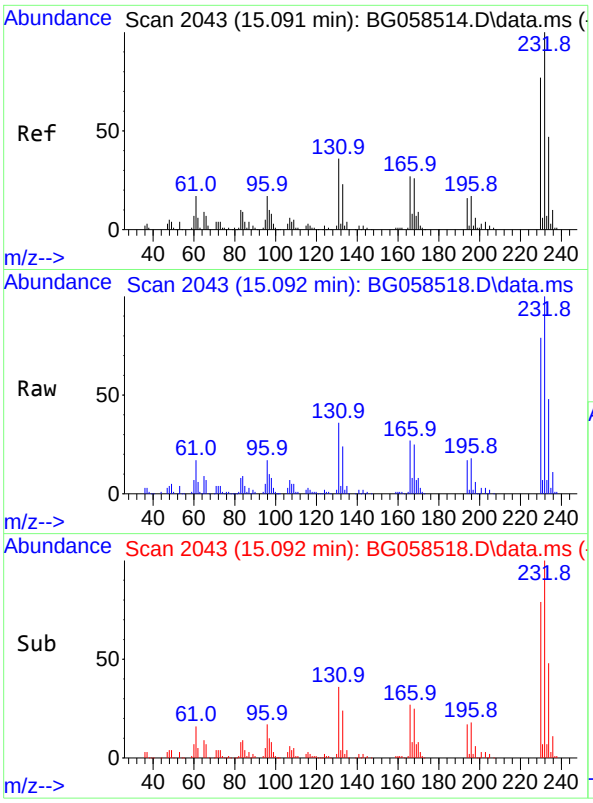


#58
Fluorene
Concen: 40.273 ng
RT: 15.509 min Scan# 2114
Delta R.T. 0.001 min
Lab File: BG058518.D
Acq: 28 Jul 2023 14:51

Tgt Ion:166 Resp: 436173

Ion	Ratio	Lower	Upper
166	100		
165	100.6	80.0	120.0
167	13.9	11.3	16.9



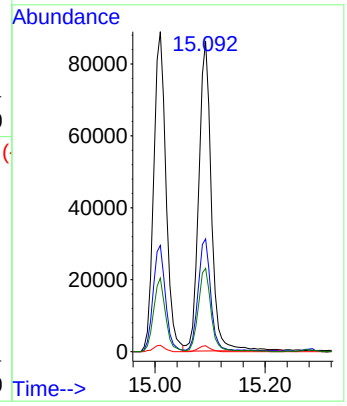


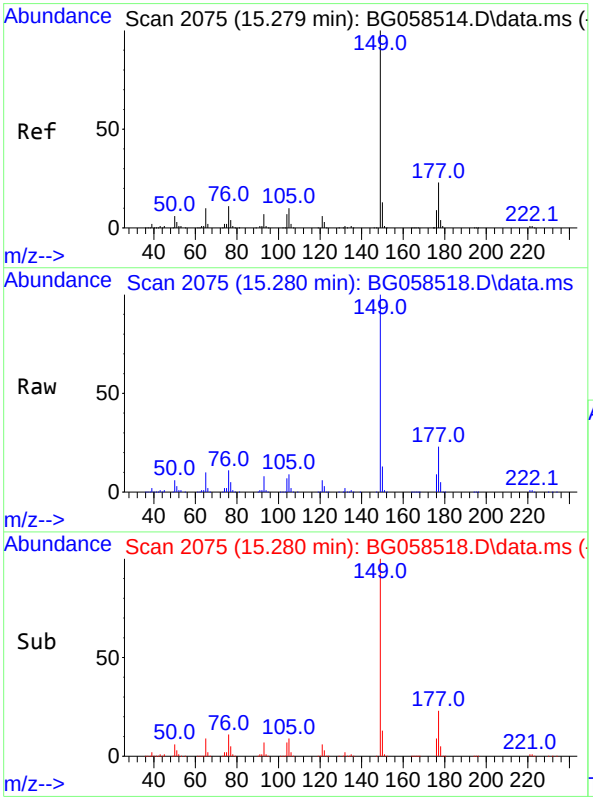
#59
2,3,4,6-Tetrachlorophenol
Concen: 41.977 ng
RT: 15.092 min Scan# 2
Delta R.T. 0.001 min
Lab File: BG058518.D
Acq: 28 Jul 2023 14:51

Instrument :
BNA_G
ClientSampleId :
ICVBG072823

Tgt Ion:232 Resp: 136458

Ion	Ratio	Lower	Upper
232	100		
131	36.5	30.0	45.0
130	1.8	1.5	2.3
166	26.4	22.8	34.2

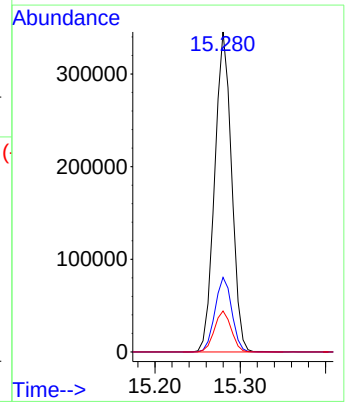


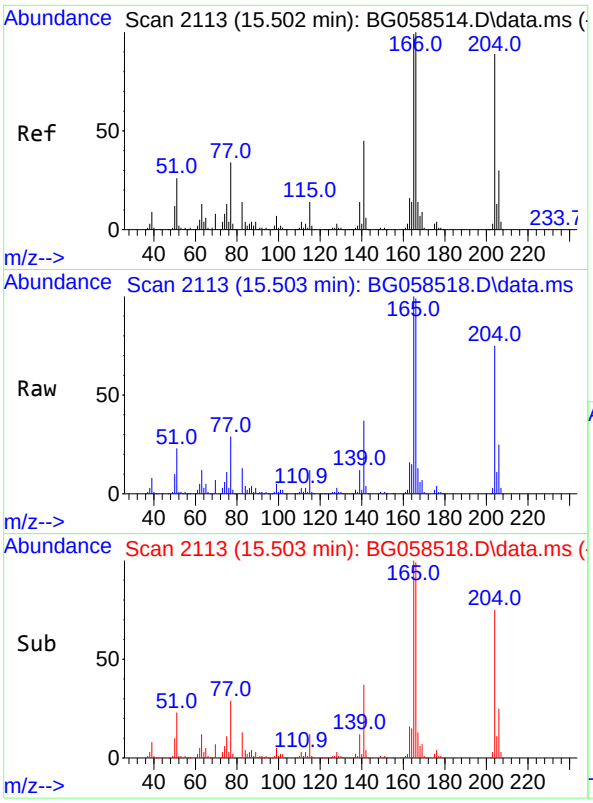


#60
Diethylphthalate
Concen: 40.529 ng
RT: 15.280 min Scan# 2075
Delta R.T. 0.001 min
Lab File: BG058518.D
Acq: 28 Jul 2023 14:51

Tgt Ion:149 Resp: 474951

Ion	Ratio	Lower	Upper
149	100		
177	23.3	18.2	27.4
150	12.8	10.2	15.4



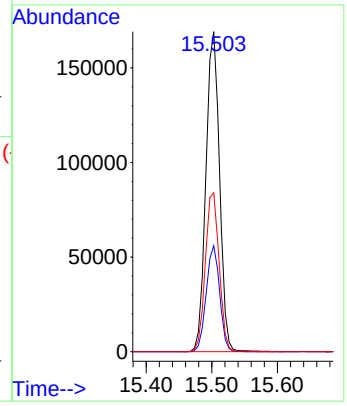


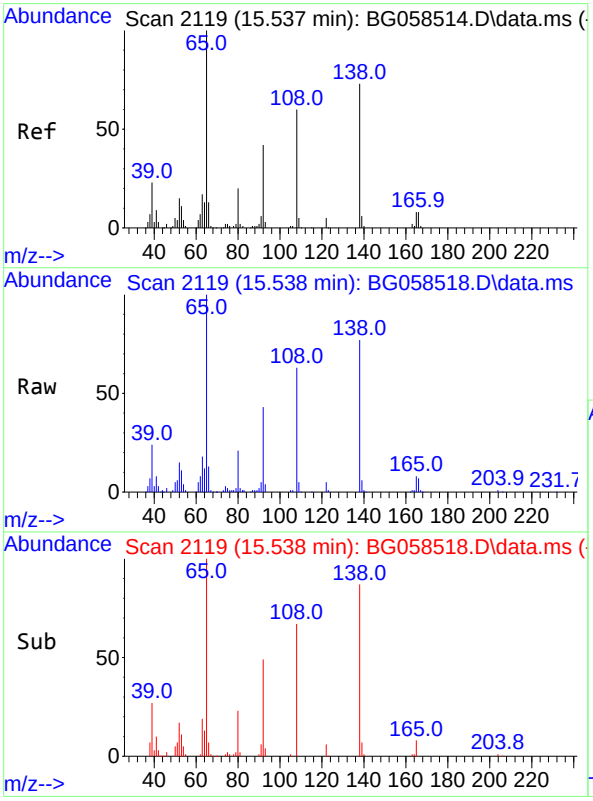
#61
4-Chlorophenyl-phenylether
Concen: 40.552 ng
RT: 15.503 min Scan# 21
Delta R.T. 0.001 min
Lab File: BG058518.D
Acq: 28 Jul 2023 14:51

Instrument :
BNA_G
ClientSampleId :
ICVBG072823

Tgt Ion:204 Resp: 244857

Ion	Ratio	Lower	Upper
204	100		
206	33.1	27.0	40.4
141	49.7	40.8	61.2

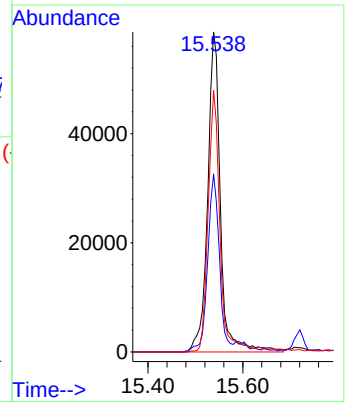


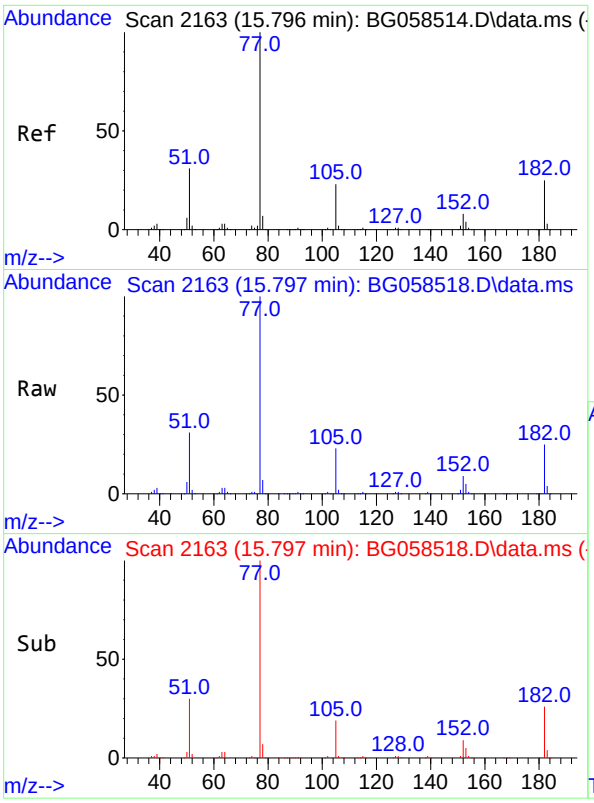


#62
4-Nitroaniline
Concen: 45.669 ng
RT: 15.538 min Scan# 2119
Delta R.T. 0.001 min
Lab File: BG058518.D
Acq: 28 Jul 2023 14:51

Tgt Ion:138 Resp: 109247

Ion	Ratio	Lower	Upper
138	100		
92	55.6	37.3	77.3
108	81.8	62.6	102.6



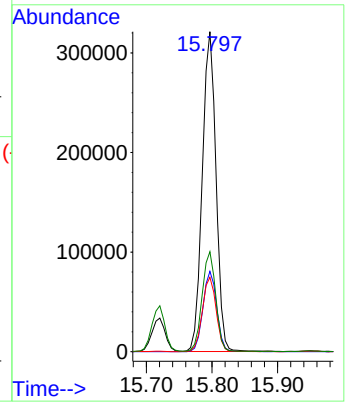


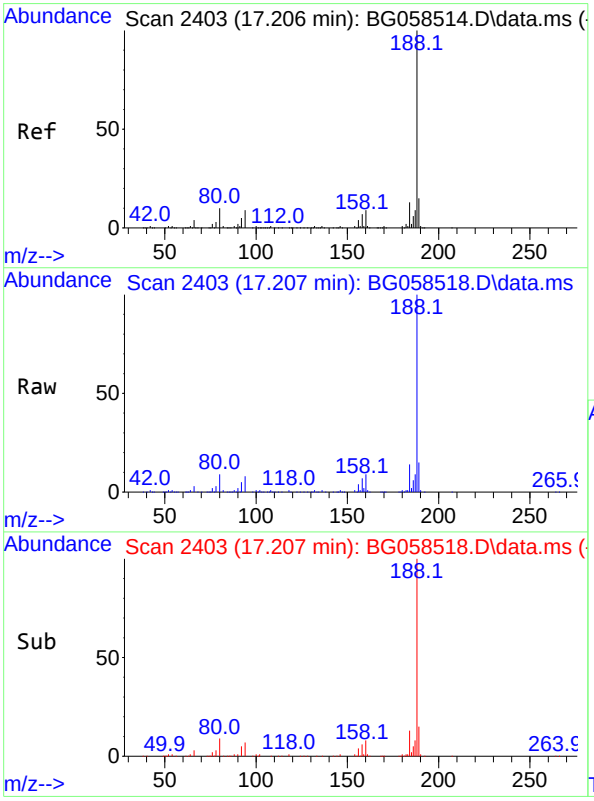
#63
Azobenzene
Concen: 40.491 ng
RT: 15.797 min Scan# 21
Delta R.T. 0.001 min
Lab File: BG058518.D
Acq: 28 Jul 2023 14:51

Instrument :
BNA_G
ClientSampleId :
ICVBG072823

Tgt Ion: 77 Resp: 467366

Ion	Ratio	Lower	Upper
77	100		
182	25.1	4.6	44.6
105	23.3	3.3	43.3
51	31.2	10.9	50.9

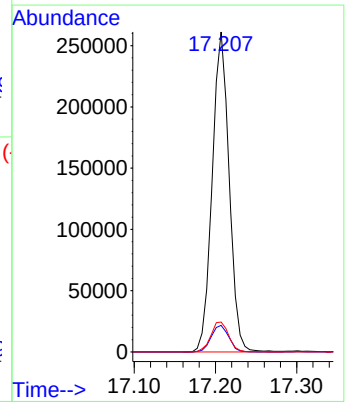


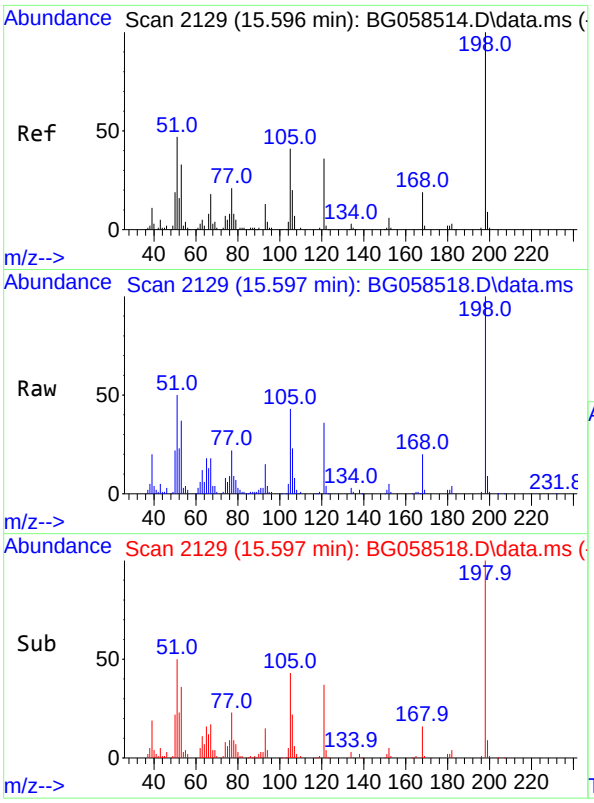


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.207 min Scan# 2403
Delta R.T. 0.001 min
Lab File: BG058518.D
Acq: 28 Jul 2023 14:51

Tgt Ion:188 Resp: 377754

Ion	Ratio	Lower	Upper
188	100		
94	8.3	7.0	10.6
80	9.3	8.1	12.1



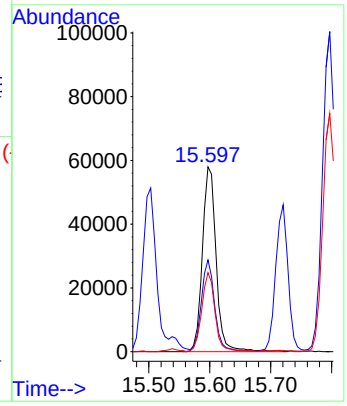


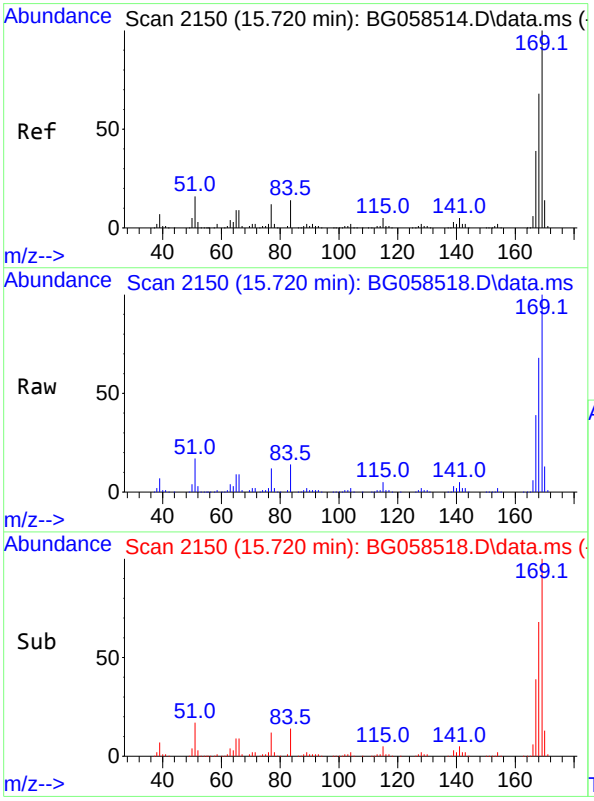
#65
4,6-Dinitro-2-methylphenol
Concen: 43.707 ng
RT: 15.597 min Scan# 21
Delta R.T. 0.001 min
Lab File: BG058518.D
Acq: 28 Jul 2023 14:51

Instrument :
BNA_G
ClientSampleId :
ICVBG072823

Tgt Ion:198 Resp: 91038

Ion	Ratio	Lower	Upper
198	100		
51	49.6	29.3	69.3
105	42.8	21.0	61.0

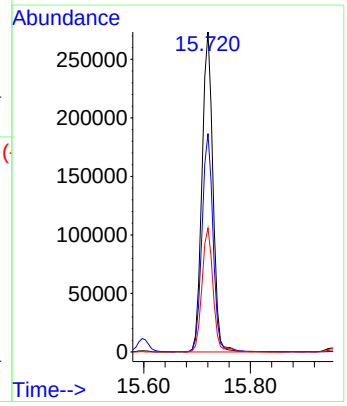


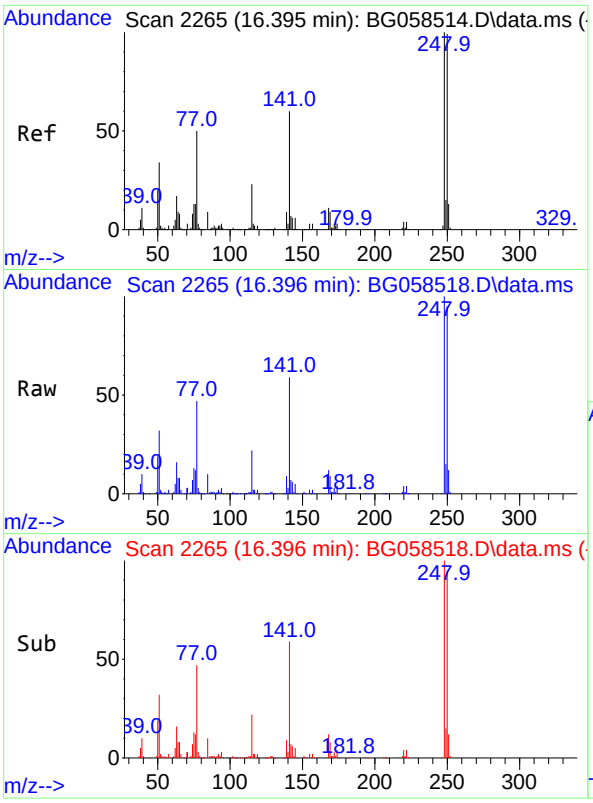


#66
n-Nitrosodiphenylamine
Concen: 39.580 ng
RT: 15.720 min Scan# 2150
Delta R.T. 0.001 min
Lab File: BG058518.D
Acq: 28 Jul 2023 14:51

Tgt Ion:169 Resp: 389148

Ion	Ratio	Lower	Upper
169	100		
168	68.2	54.6	82.0
167	38.7	31.3	46.9



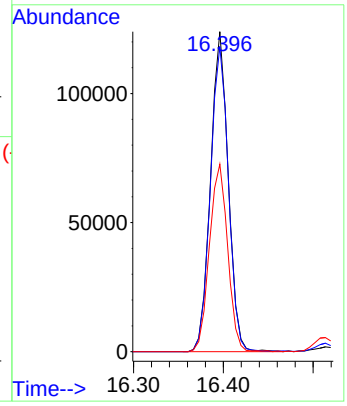


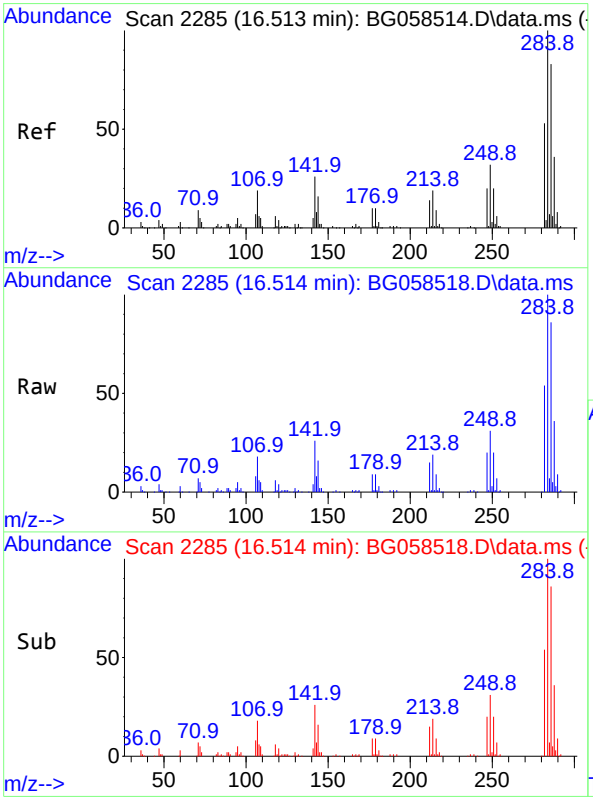
#67
4-Bromophenyl-phenylether
Concen: 39.508 ng
RT: 16.396 min Scan# 2
Delta R.T. 0.001 min
Lab File: BG058518.D
Acq: 28 Jul 2023 14:51

Instrument :
BNA_G
ClientSampleId :
ICVBG072823

Tgt Ion:248 Resp: 169275

Ion	Ratio	Lower	Upper
248	100		
250	95.4	79.5	119.3
141	58.6	48.2	72.2

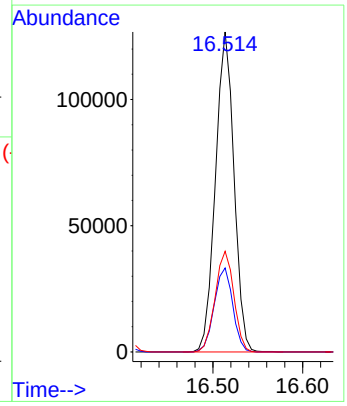


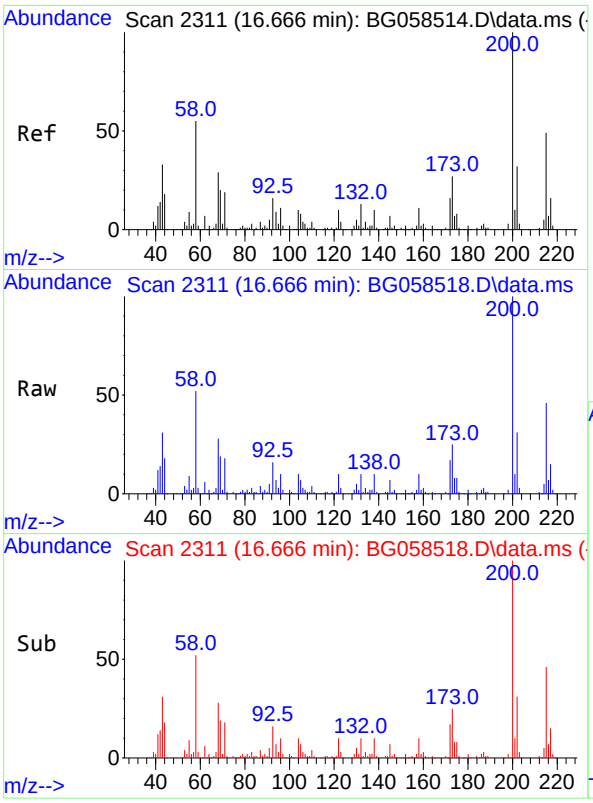


#68
Hexachlorobenzene
Concen: 39.931 ng
RT: 16.514 min Scan# 2285
Delta R.T. 0.001 min
Lab File: BG058518.D
Acq: 28 Jul 2023 14:51

Tgt Ion:284 Resp: 181293

Ion	Ratio	Lower	Upper
284	100		
142	26.2	21.0	31.4
249	31.4	25.5	38.3



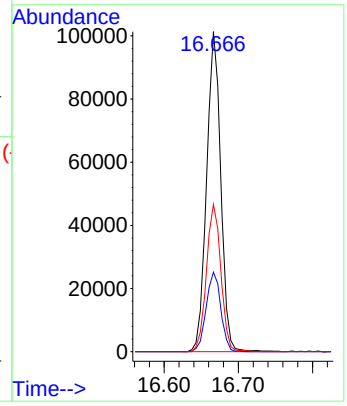


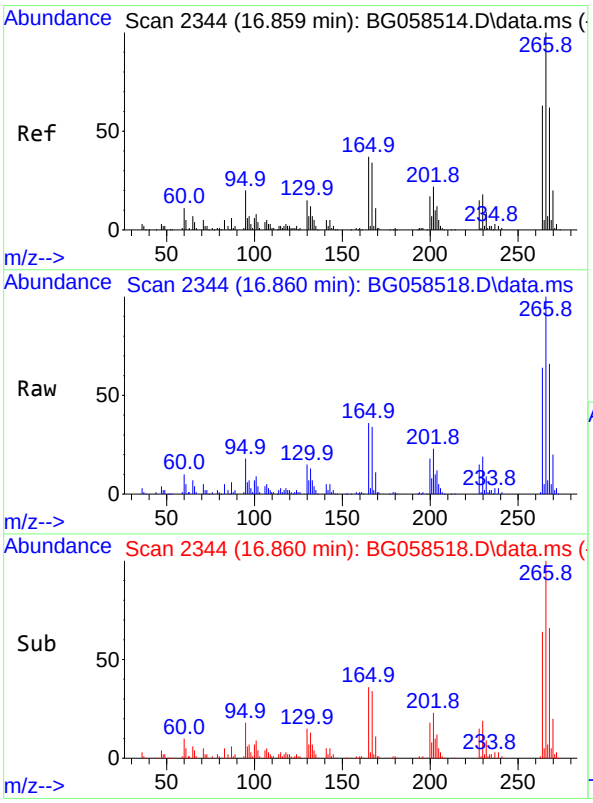
#69
Atrazine
Concen: 40.435 ng
RT: 16.666 min Scan# 2
Delta R.T. 0.001 min
Lab File: BG058518.D
Acq: 28 Jul 2023 14:51

Instrument :
BNA_G
ClientSampleId :
ICVBG072823

Tgt Ion:200 Resp: 134203

Ion	Ratio	Lower	Upper
200	100		
173	24.9	6.5	46.5
215	46.1	28.9	68.9

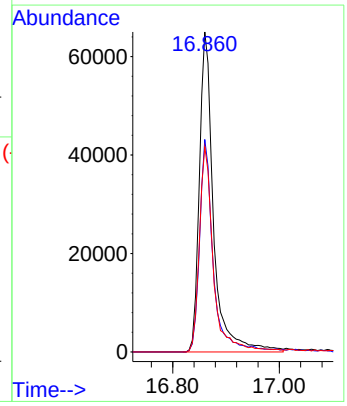


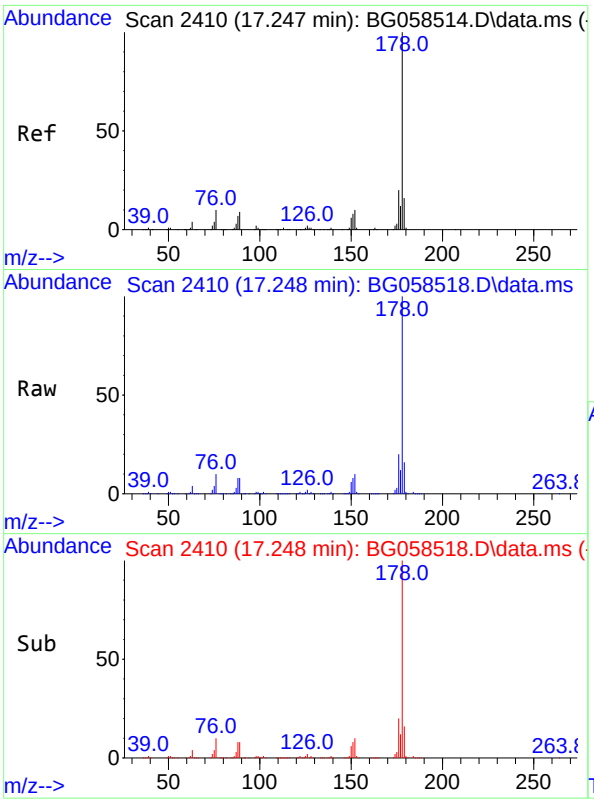


#70
Pentachlorophenol
Concen: 43.644 ng
RT: 16.860 min Scan# 2344
Delta R.T. 0.001 min
Lab File: BG058518.D
Acq: 28 Jul 2023 14:51

Tgt Ion:266 Resp: 119936

Ion	Ratio	Lower	Upper
266	100		
268	66.4	49.9	74.9
264	64.1	50.2	75.4



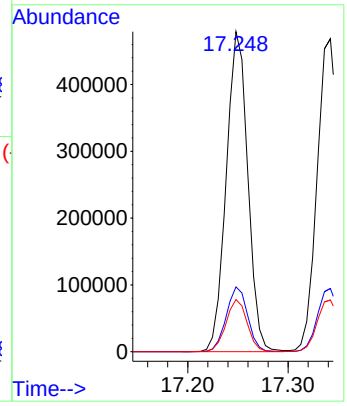


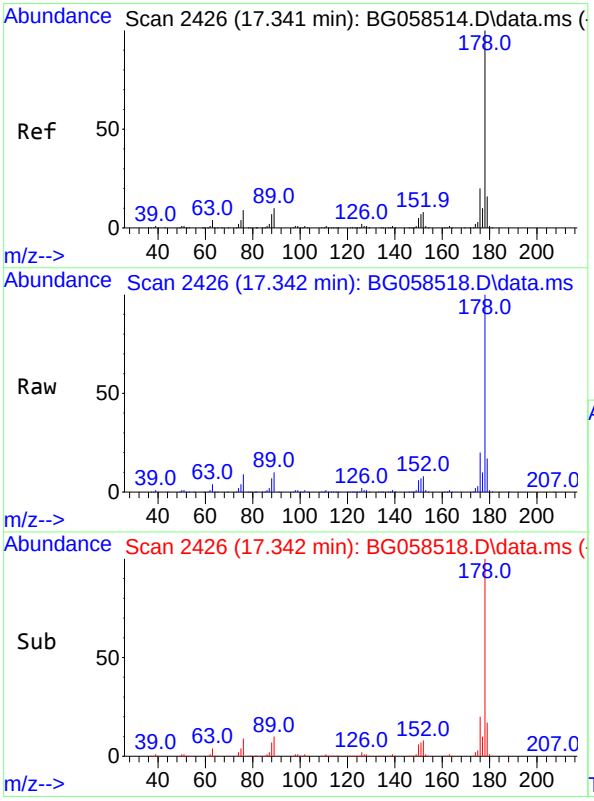
#71
Phenanthrene
Concen: 39.862 ng
RT: 17.248 min Scan# 24
Delta R.T. 0.001 min
Lab File: BG058518.D
Acq: 28 Jul 2023 14:51

Instrument :
BNA_G
ClientSampleId :
ICVBG072823

Tgt Ion:178 Resp: 714124

Ion	Ratio	Lower	Upper
178	100		
176	20.3	16.3	24.5
179	16.3	13.1	19.7

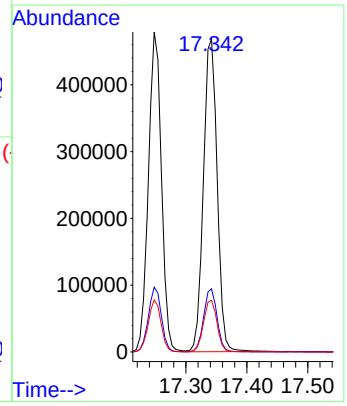


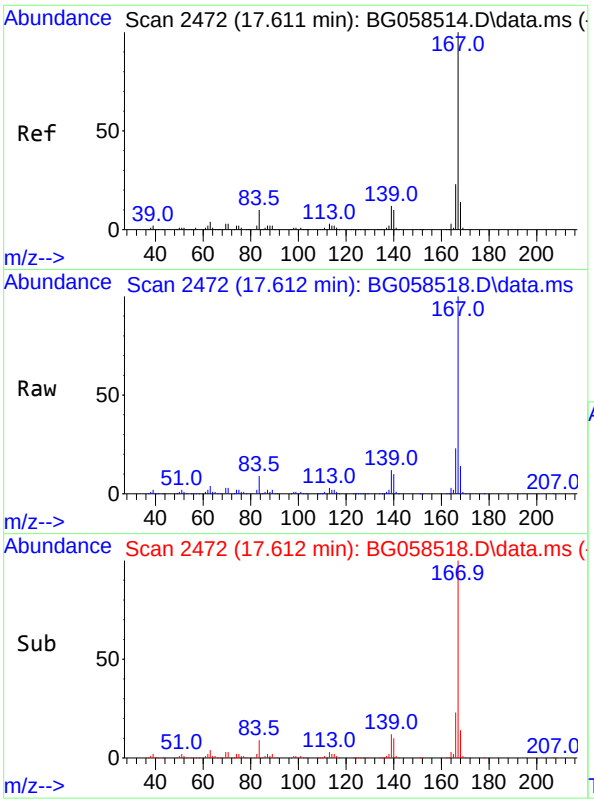


#72
Anthracene
Concen: 39.903 ng
RT: 17.342 min Scan# 2426
Delta R.T. 0.001 min
Lab File: BG058518.D
Acq: 28 Jul 2023 14:51

Tgt Ion:178 Resp: 733497

Ion	Ratio	Lower	Upper
178	100		
176	20.2	16.0	24.0
179	16.5	12.9	19.3



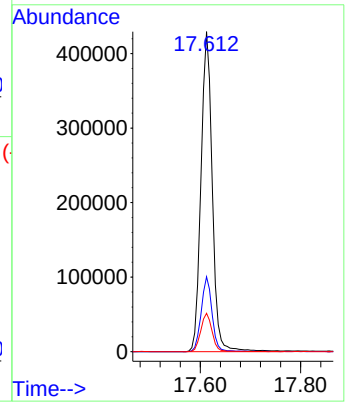


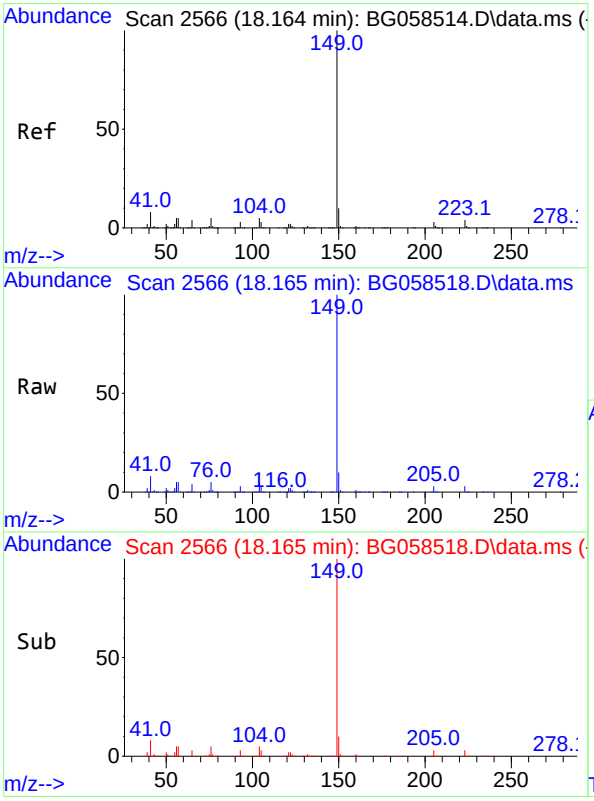
#73
Carbazole
Concen: 41.339 ng
RT: 17.612 min Scan# 24
Delta R.T. 0.001 min
Lab File: BG058518.D
Acq: 28 Jul 2023 14:51

Instrument :
BNA_G
ClientSampleId :
ICVBG072823

Tgt Ion:167 Resp: 670087

Ion	Ratio	Lower	Upper
167	100		
166	23.4	18.4	27.6
139	12.0	10.0	15.0

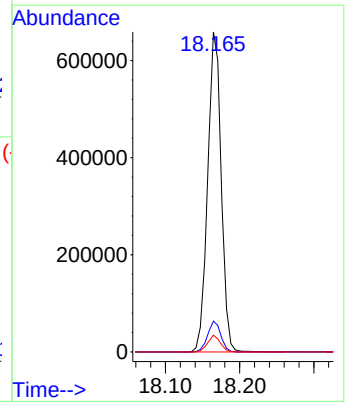


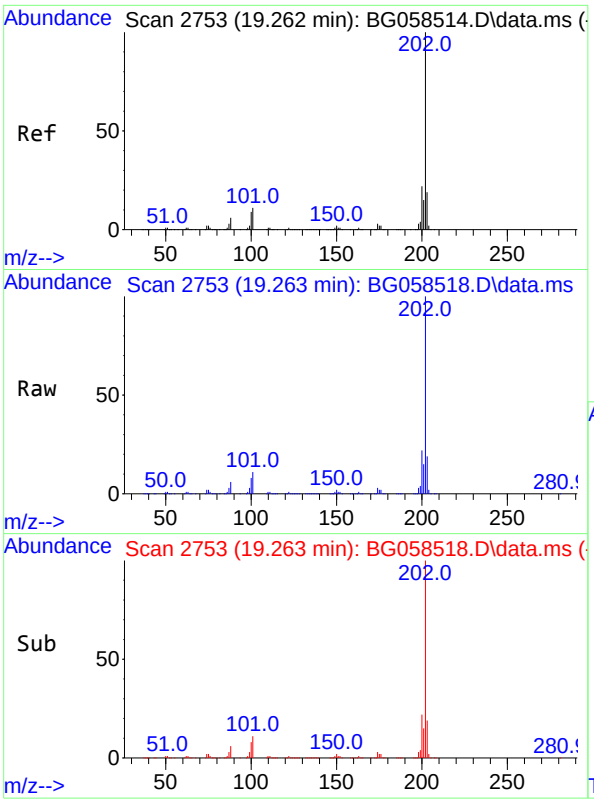


#74
Di-n-butylphthalate
Concen: 41.202 ng
RT: 18.165 min Scan# 2566
Delta R.T. 0.001 min
Lab File: BG058518.D
Acq: 28 Jul 2023 14:51

Tgt Ion:149 Resp: 836547

Ion	Ratio	Lower	Upper
149	100		
150	9.7	7.8	11.6
104	5.3	4.0	6.0



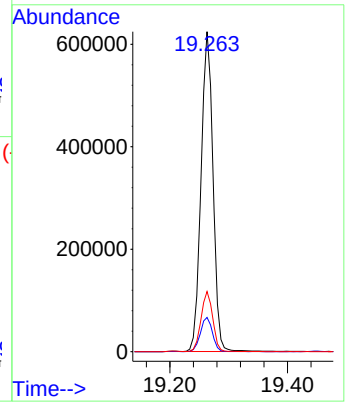


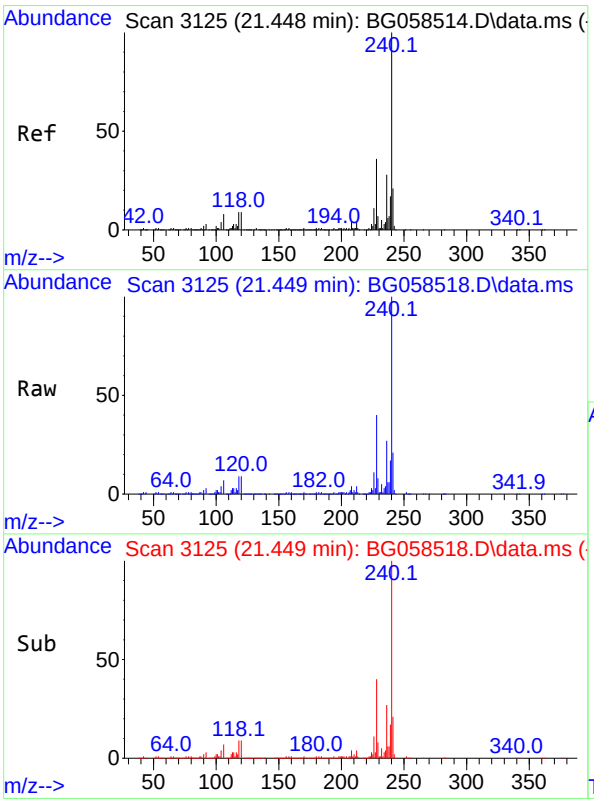
#75
Fluoranthene
Concen: 40.912 ng
RT: 19.263 min Scan# 2
Delta R.T. 0.001 min
Lab File: BG058518.D
Acq: 28 Jul 2023 14:51

Instrument :
BNA_G
ClientSampleId :
ICVBG072823

Tgt Ion:202 Resp: 880393

Ion	Ratio	Lower	Upper
202	100		
101	10.7	0.0	31.4
203	18.8	0.0	39.0

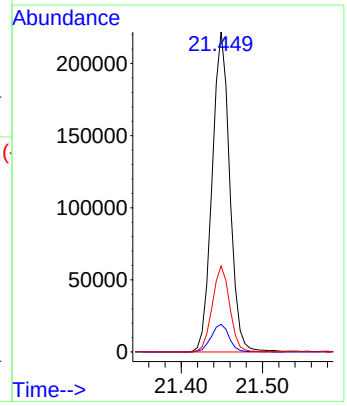


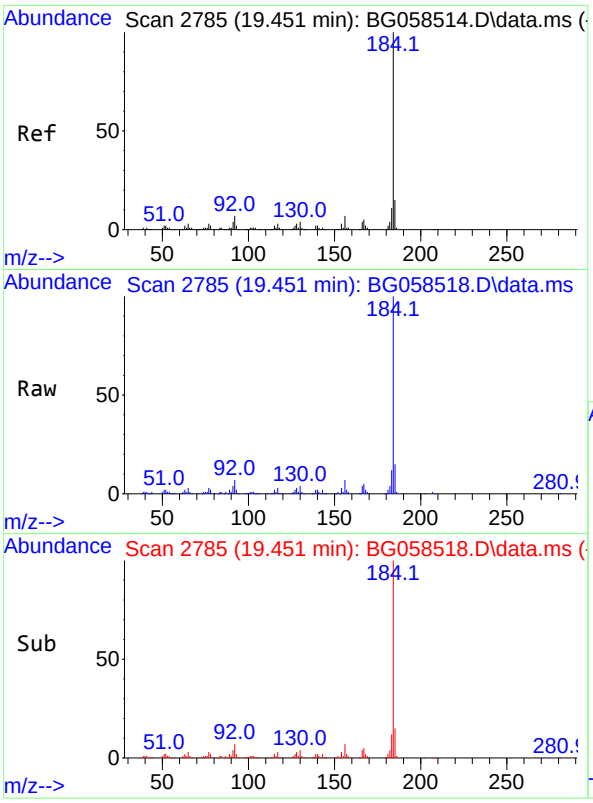


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.449 min Scan# 3125
Delta R.T. 0.001 min
Lab File: BG058518.D
Acq: 28 Jul 2023 14:51

Tgt Ion:240 Resp: 333556

Ion	Ratio	Lower	Upper
240	100		
120	8.7	7.4	11.0
236	26.8	22.2	33.4



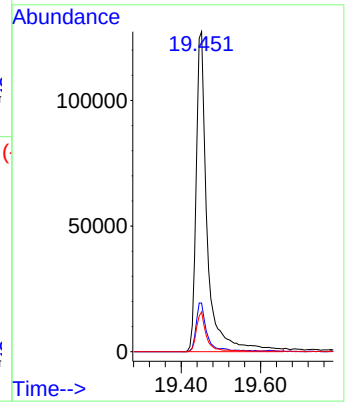


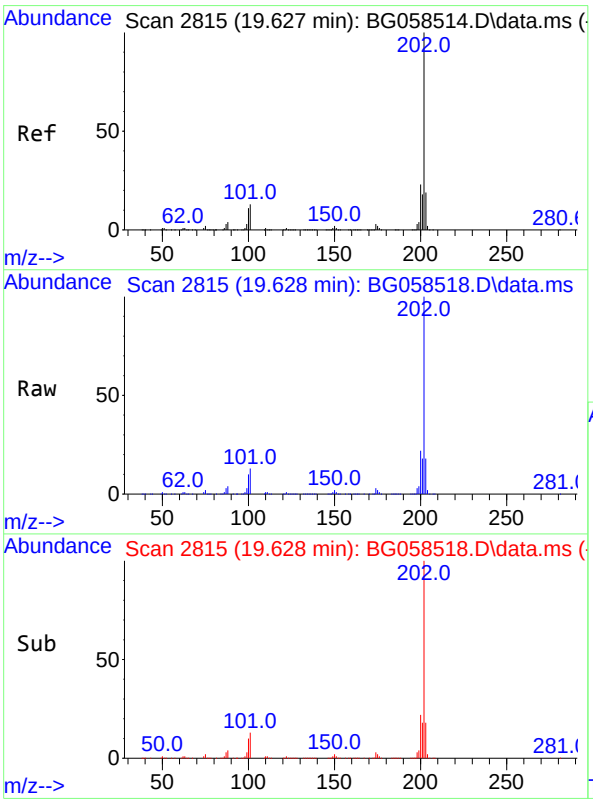
#77
Benzidine
Concen: 49.035 ng
RT: 19.451 min Scan# 2
Delta R.T. 0.001 min
Lab File: BG058518.D
Acq: 28 Jul 2023 14:51

Instrument :
BNA_G
ClientSampleId :
ICVBG072823

Tgt Ion:184 Resp: 248020

Ion	Ratio	Lower	Upper
184	100		
185	15.2	11.9	17.9
183	12.5	8.7	13.1

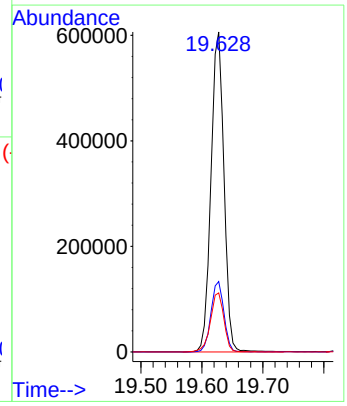


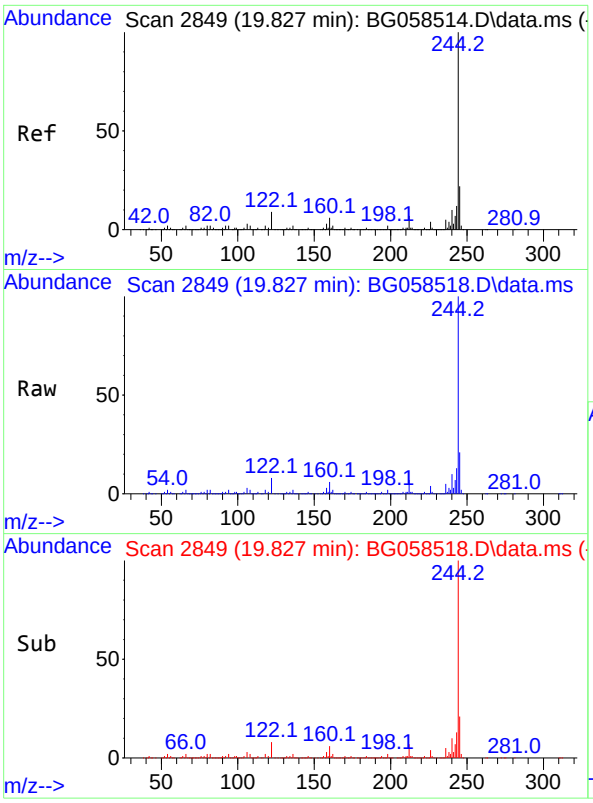


#78
Pyrene
Concen: 39.478 ng
RT: 19.628 min Scan# 2815
Delta R.T. 0.001 min
Lab File: BG058518.D
Acq: 28 Jul 2023 14:51

Tgt Ion:202 Resp: 896169

Ion	Ratio	Lower	Upper
202	100		
200	22.0	18.2	27.2
203	18.5	15.1	22.7



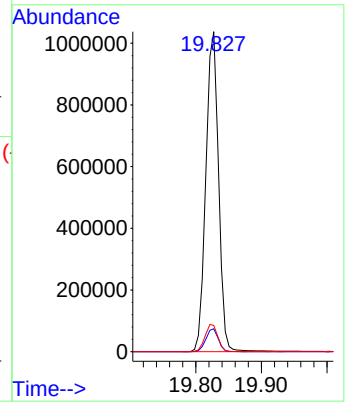


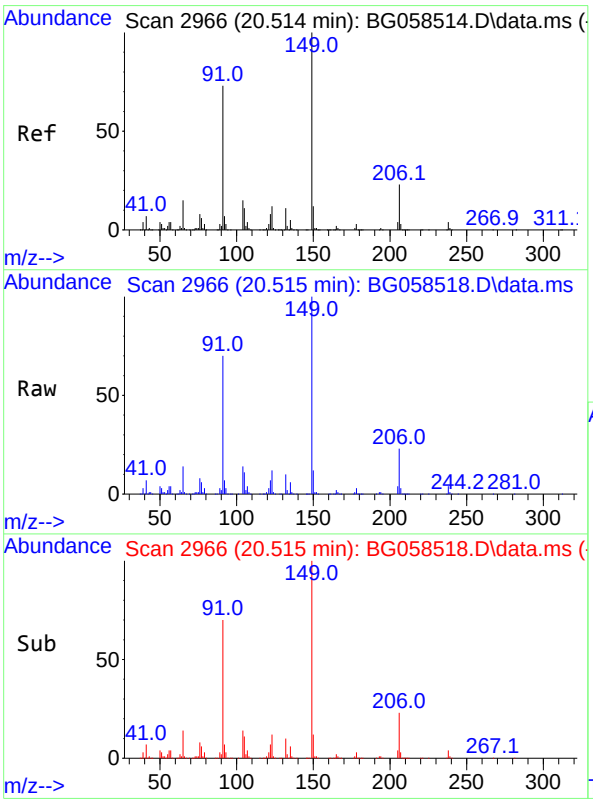
#79
Terphenyl-d14
Concen: 79.056 ng
RT: 19.827 min Scan# 2
Delta R.T. 0.001 min
Lab File: BG058518.D
Acq: 28 Jul 2023 14:51

Instrument :
BNA_G
ClientSampleId :
ICVBG072823

Tgt Ion:244 Resp: 1402241

Ion	Ratio	Lower	Upper
244	100		
212	7.1	5.9	8.9
122	8.2	6.8	10.2

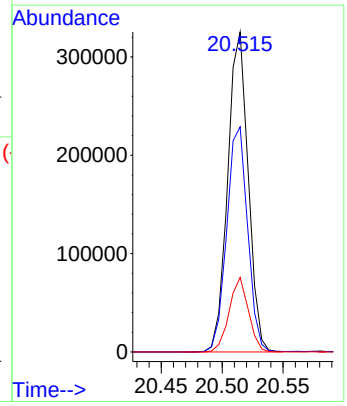


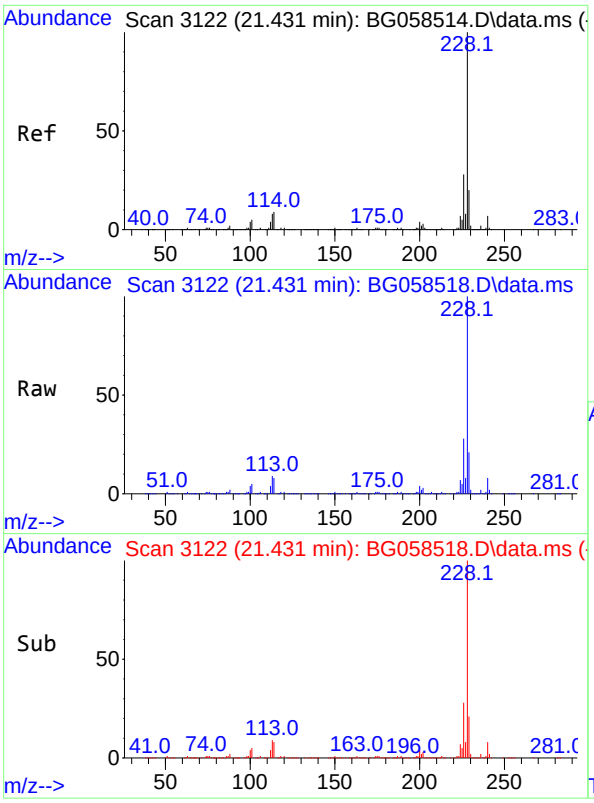


#80
Butylbenzylphthalate
Concen: 40.857 ng
RT: 20.515 min Scan# 2966
Delta R.T. 0.001 min
Lab File: BG058518.D
Acq: 28 Jul 2023 14:51

Tgt Ion:149 Resp: 380963

Ion	Ratio	Lower	Upper
149	100		
91	70.4	58.4	87.6
206	23.3	18.3	27.5



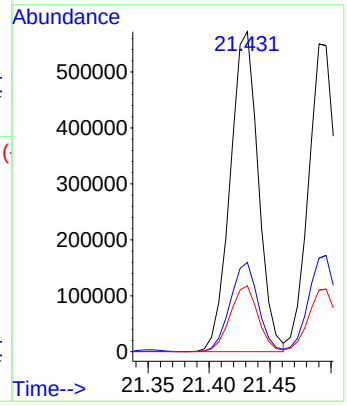


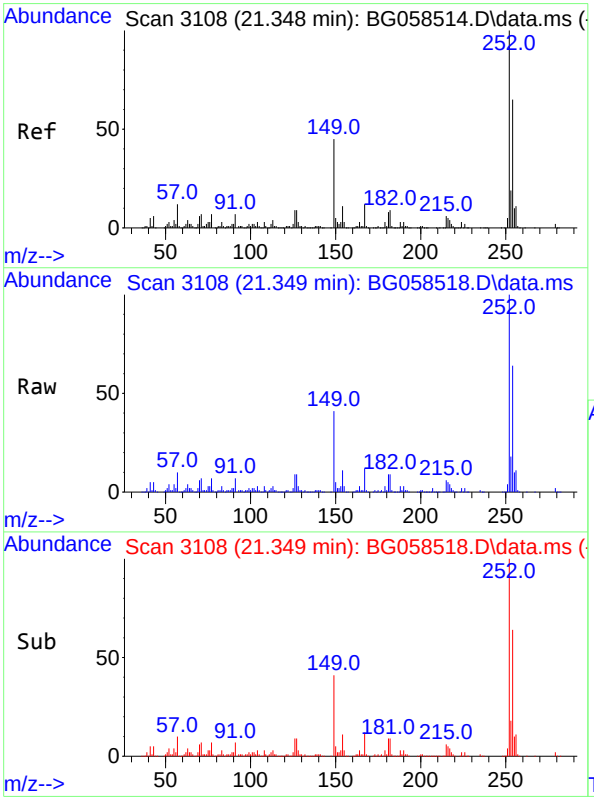
#81
Benzo(a)anthracene
Concen: 39.921 ng
RT: 21.431 min Scan# 3
Delta R.T. 0.001 min
Lab File: BG058518.D
Acq: 28 Jul 2023 14:51

Instrument :
BNA_G
ClientSampleId :
ICVBG072823

Tgt Ion:228 Resp: 916382

Ion	Ratio	Lower	Upper
228	100		
226	27.9	22.6	33.8
229	20.6	16.3	24.5

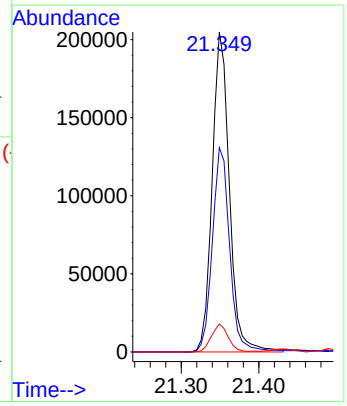


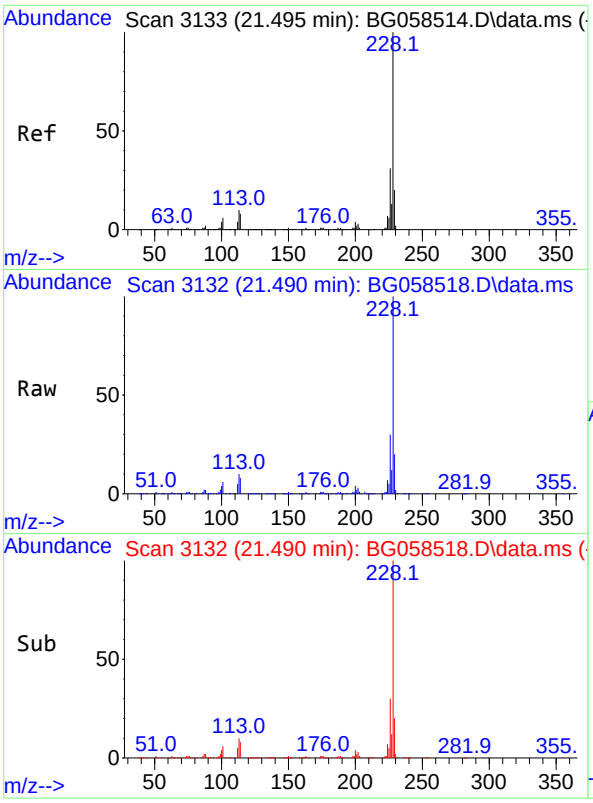


#82
3,3'-Dichlorobenzidine
Concen: 40.578 ng
RT: 21.349 min Scan# 3108
Delta R.T. 0.001 min
Lab File: BG058518.D
Acq: 28 Jul 2023 14:51

Tgt Ion:252 Resp: 314941

Ion	Ratio	Lower	Upper
252	100		
254	63.8	52.2	78.4
126	8.7	7.2	10.8



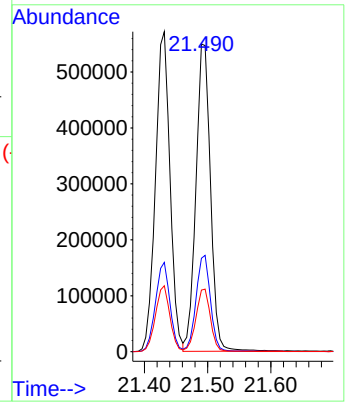


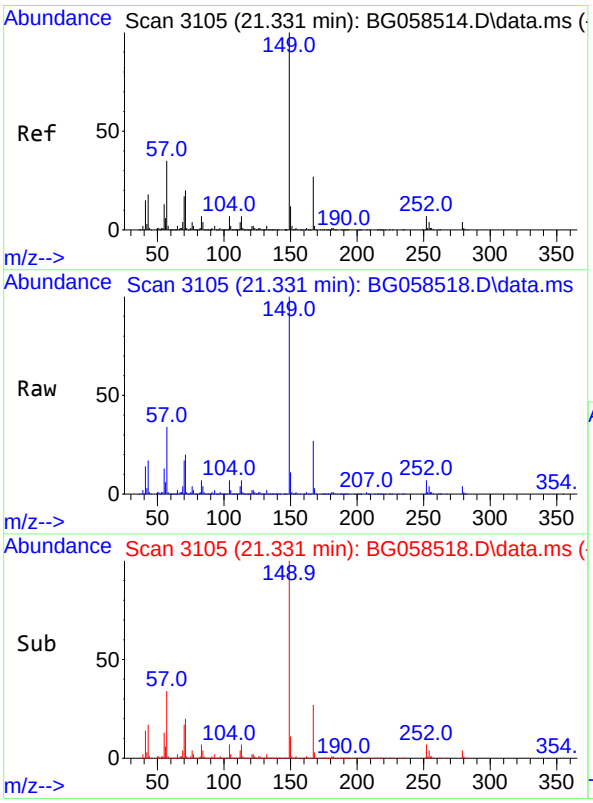
#83
Chrysene
Concen: 39.934 ng
RT: 21.490 min Scan# 3
Delta R.T. -0.005 min
Lab File: BG058518.D
Acq: 28 Jul 2023 14:51

Instrument :
BNA_G
ClientSampleId :
ICVBG072823

Tgt Ion:228 Resp: 878906

Ion	Ratio	Lower	Upper
228	100		
226	30.4	25.0	37.6
229	20.0	16.3	24.5

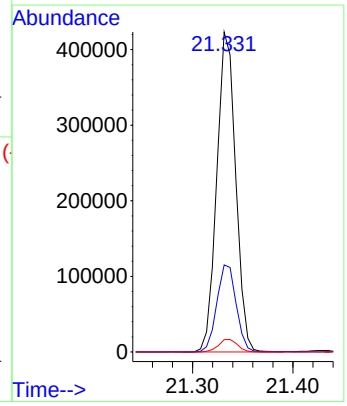


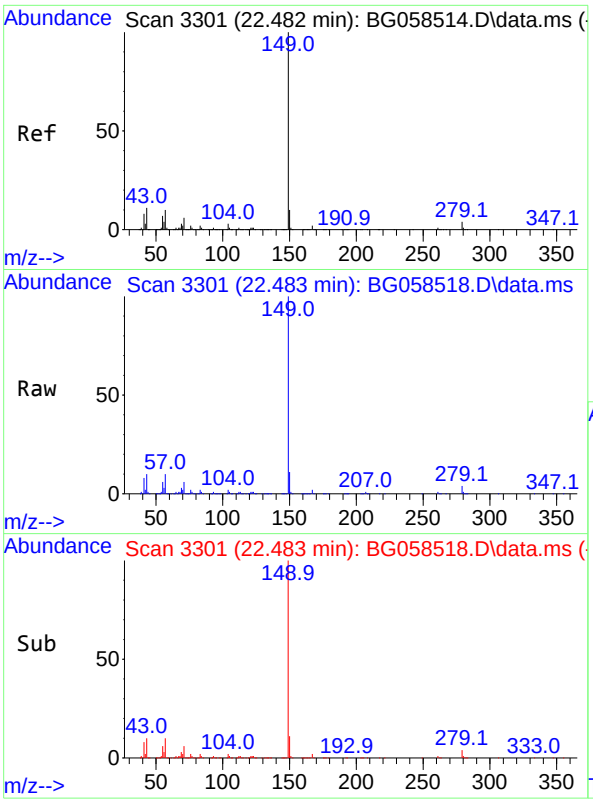


#84
Bis(2-ethylhexyl)phthalate
Concen: 40.523 ng
RT: 21.331 min Scan# 3105
Delta R.T. 0.001 min
Lab File: BG058518.D
Acq: 28 Jul 2023 14:51

Tgt Ion:149 Resp: 552161

Ion	Ratio	Lower	Upper
149	100		
167	27.2	21.8	32.8
279	3.9	2.9	4.3



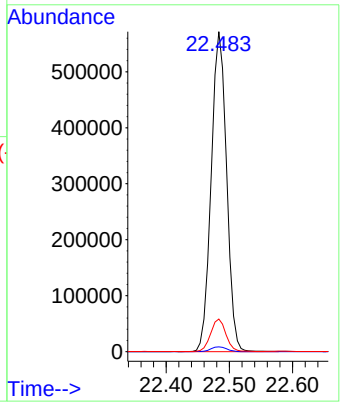


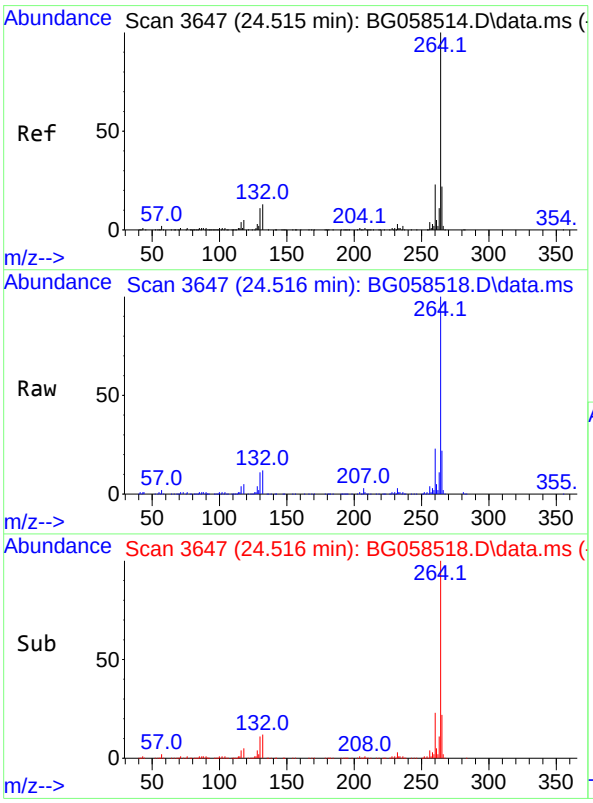
#85
Di-n-octyl phthalate
Concen: 40.353 ng
RT: 22.483 min Scan# 3
Delta R.T. 0.001 min
Lab File: BG058518.D
Acq: 28 Jul 2023 14:51

Instrument :
BNA_G
ClientSampleId :
ICVBG072823

Tgt Ion:149 Resp: 966716

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	10.2	8.2	12.2

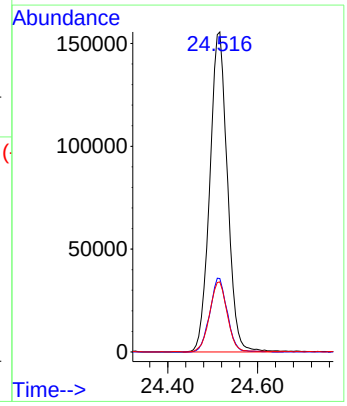


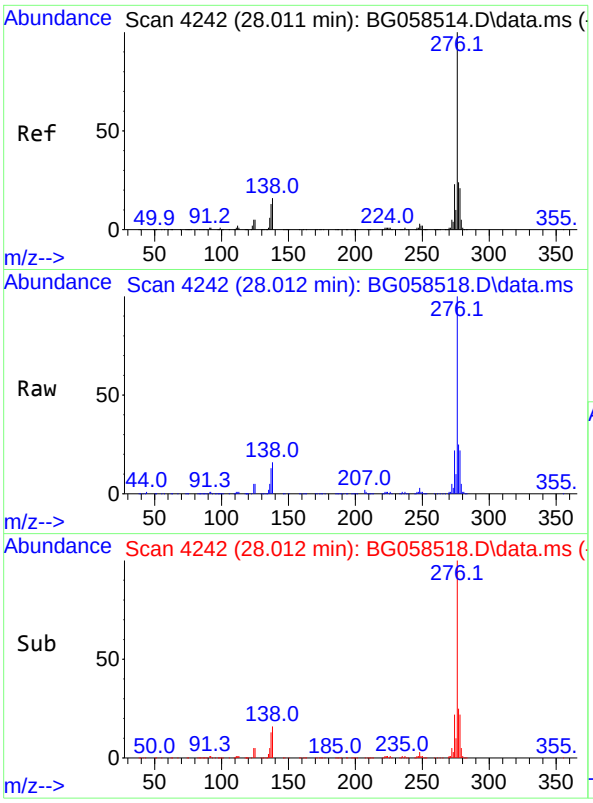


#86
Perylene-d12
Concen: 20.000 ng
RT: 24.516 min Scan# 3647
Delta R.T. 0.001 min
Lab File: BG058518.D
Acq: 28 Jul 2023 14:51

Tgt Ion:264 Resp: 424117

Ion	Ratio	Lower	Upper
264	100		
260	22.9	18.4	27.6
265	21.9	17.9	26.9



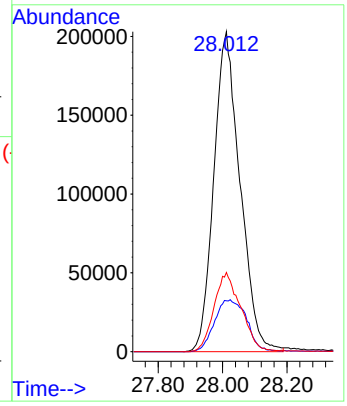


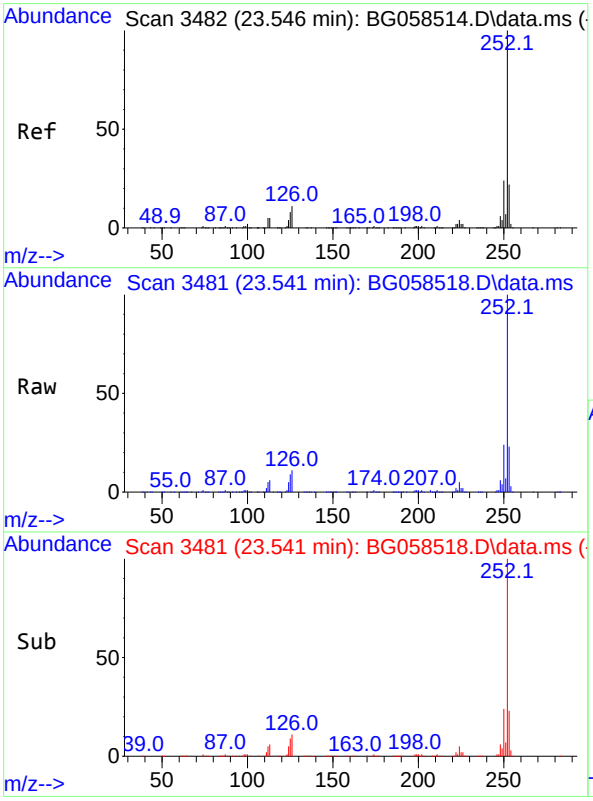
#87
Indeno(1,2,3-cd)pyrene
Concen: 40.586 ng
RT: 28.012 min Scan# 4
Delta R.T. 0.001 min
Lab File: BG058518.D
Acq: 28 Jul 2023 14:51

Instrument :
BNA_G
ClientSampleId :
ICVBG072823

Tgt Ion:276 Resp: 1145148

Ion	Ratio	Lower	Upper
276	100		
138	19.9	16.0	24.0
277	25.5	20.4	30.6

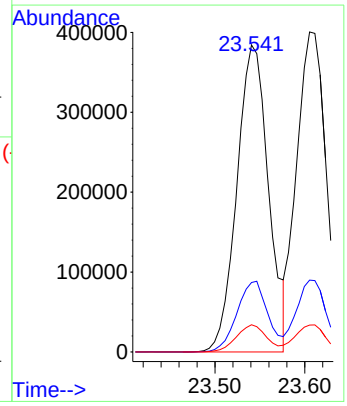


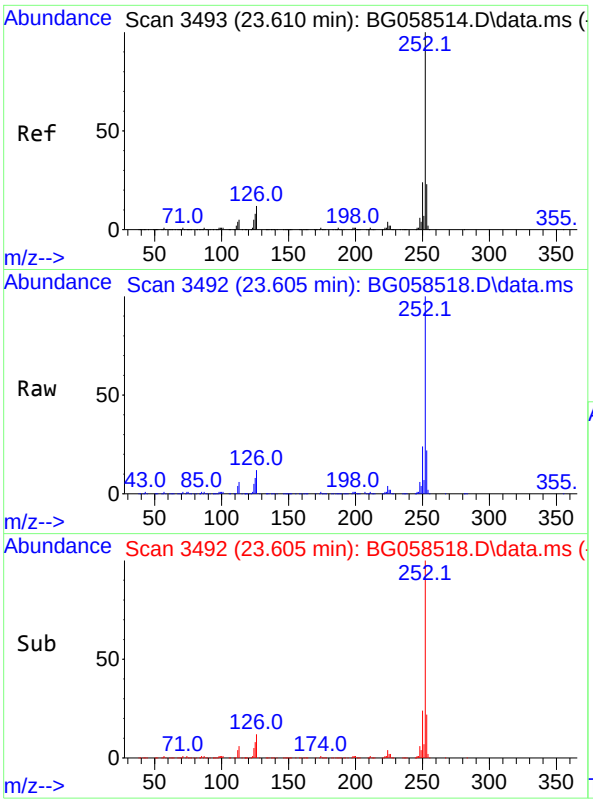


#88
Benzo(b)fluoranthene
Concen: 40.846 ng
RT: 23.541 min Scan# 3481
Delta R.T. -0.005 min
Lab File: BG058518.D
Acq: 28 Jul 2023 14:51

Tgt Ion:252 Resp: 939594

Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.8	26.8
125	8.9	6.6	9.8



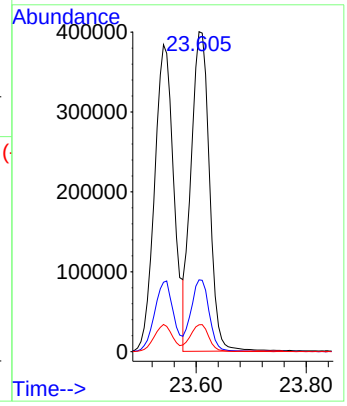


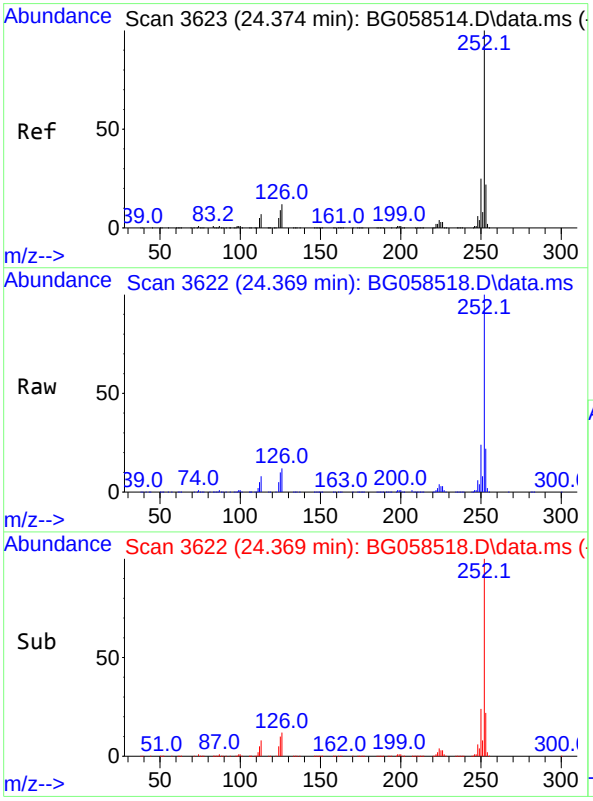
#89
Benzo(k)fluoranthene
Concen: 40.002 ng
RT: 23.605 min Scan# 34
Delta R.T. -0.005 min
Lab File: BG058518.D
Acq: 28 Jul 2023 14:51

Instrument :
BNA_G
ClientSampleId :
ICVBG072823

Tgt Ion:252 Resp: 924415

Ion	Ratio	Lower	Upper
252	100		
253	22.5	17.9	26.9
125	8.4	6.6	10.0

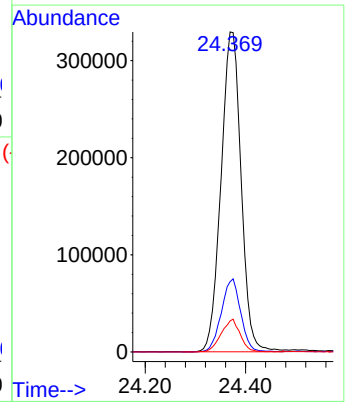


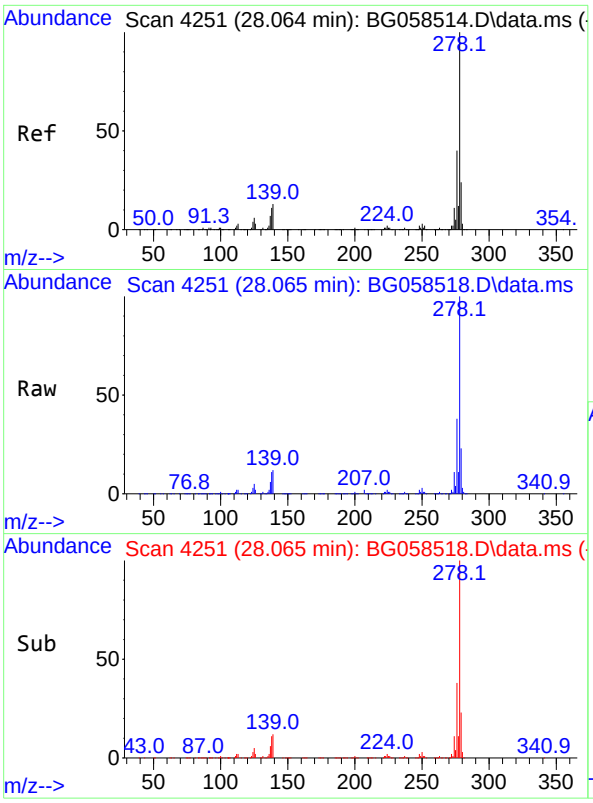


#90
Benzo(a)pyrene
Concen: 40.494 ng
RT: 24.369 min Scan# 3622
Delta R.T. -0.005 min
Lab File: BG058518.D
Acq: 28 Jul 2023 14:51

Tgt Ion:252 Resp: 914794

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.5	26.3
125	9.7	7.4	11.2



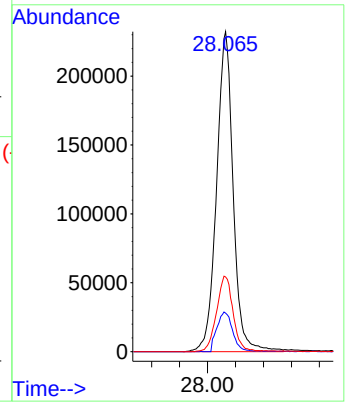


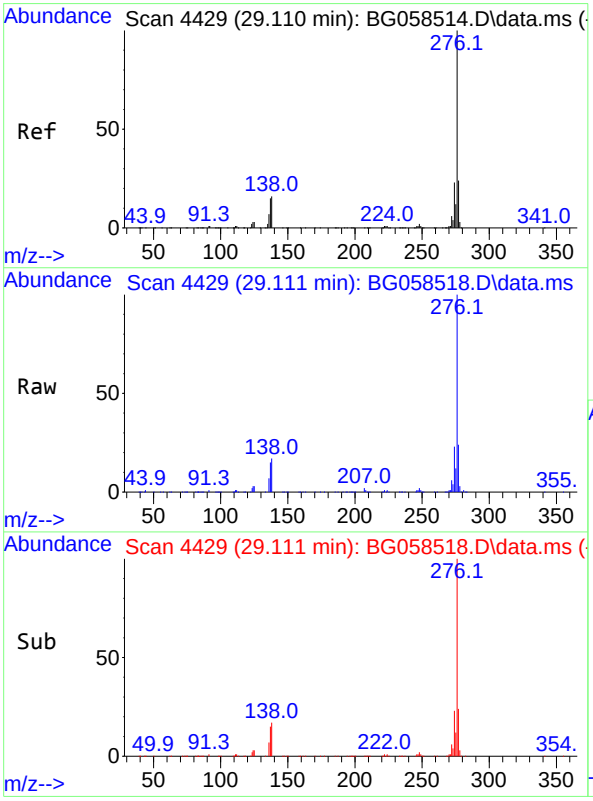
#91
Dibenzo(a,h)anthracene
Concen: 41.008 ng
RT: 28.065 min Scan# 4
Delta R.T. 0.001 min
Lab File: BG058518.D
Acq: 28 Jul 2023 14:51

Instrument :
BNA_G
ClientSampleId :
ICVBG072823

Tgt Ion:278 Resp: 956720

Ion	Ratio	Lower	Upper
278	100		
139	12.1	10.4	15.6
279	23.4	19.0	28.6

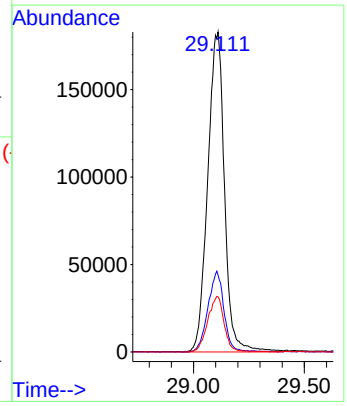




#92
Benzo(g,h,i)perylene
Concen: 41.204 ng
RT: 29.111 min Scan# 4429
Delta R.T. 0.001 min
Lab File: BG058518.D
Acq: 28 Jul 2023 14:51

Tgt Ion:276 Resp: 963936

Ion	Ratio	Lower	Upper
276	100		
277	24.1	18.9	28.3
138	17.2	13.0	19.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG072823\
Data File : BG058518.D
Acq On : 28 Jul 2023 14:51
Operator : MA/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
ICVBG072823

Quant Time: Jul 28 22:35:56 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 28 22:29:07 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	90	0.00
2		1,4-Dioxane	0.634	0.628	0.9	90	0.00
3		Pyridine	1.729	1.765	-2.1	91	0.00
4		n-Nitrosodimethylamine	0.732	0.729	0.4	89	0.00
5	S	2-Fluorophenol	1.309	1.322	-1.0	90	0.00
6		Aniline	2.242	2.351	-4.9	91	0.00
7	S	Phenol-d6	1.821	1.889	-3.7	92	0.00
8		2-Chlorophenol	1.284	1.313	-2.3	92	0.00
9		Benzaldehyde	0.989	0.978	1.1	93	0.00
10	C	Phenol	1.779	1.834	-3.1	91	0.00
11		bis(2-Chloroethyl)ether	1.402	1.423	-1.5	92	0.00
12		1,3-Dichlorobenzene	1.371	1.371	0.0	90	0.00
13	C	1,4-Dichlorobenzene	1.376	1.399	-1.7	92	0.00
14		1,2-Dichlorobenzene	1.316	1.340	-1.8	92	0.00
15		Benzyl Alcohol	1.155	1.259	-9.0	92	0.00
16		2,2'-oxybis(1-Chloropropane	2.278	2.312	-1.5	92	0.00
17		2-Methylphenol	1.300	1.346	-3.5	92	0.00
18		Hexachloroethane	0.500	0.509	-1.8	92	0.00
19	P	n-Nitroso-di-n-propylamine	1.176	1.250	-6.3	95	0.00
20		3+4-Methylphenols	1.759	1.874	-6.5	92	0.00
21	I	Naphthalene-d8	1.000	1.000	0.0	94	0.00
22		Acetophenone	0.536	0.550	-2.6	94	0.00
23	S	Nitrobenzene-d5	0.407	0.419	-2.9	94	0.00
24		Nitrobenzene	0.414	0.421	-1.7	93	0.00
25		Isophorone	0.841	0.859	-2.1	95	0.00
26	C	2-Nitrophenol	0.180	0.186	-3.3	92	0.00
27		2,4-Dimethylphenol	0.299	0.312	-4.3	95	0.00
28		bis(2-Chloroethoxy)methane	0.458	0.472	-3.1	93	0.00
29	C	2,4-Dichlorophenol	0.310	0.319	-2.9	93	0.00
30		1,2,4-Trichlorobenzene	0.358	0.358	0.0	93	0.00
31		Naphthalene	1.054	1.059	-0.5	94	0.00
32		Benzoic acid	0.207	0.231	-11.6	92	0.00
33		4-Chloroaniline	0.445	0.475	-6.7	94	0.00
34	C	Hexachlorobutadiene	0.230	0.230	0.0	93	0.00
35		Caprolactam	0.115	0.123	-7.0	97	0.00
36	C	4-Chloro-3-methylphenol	0.384	0.404	-5.2	96	0.00
37		2-Methylnaphthalene	0.754	0.764	-1.3	94	0.00
38		1-Methylnaphthalene	0.717	0.728	-1.5	95	0.00
39	I	Acenaphthene-d10	1.000	1.000	0.0	96	0.00
40		1,2,4,5-Tetrachlorobenzene	0.614	0.607	1.1	95	0.00
41	P	Hexachlorocyclopentadiene	0.236	0.249	-5.5	96	0.00
42	S	2,4,6-Tribromophenol	0.328	0.349	-6.4	100	0.00
43	C	2,4,6-Trichlorophenol	0.422	0.421	0.2	93	0.00
44		2,4,5-Trichlorophenol	0.497	0.509	-2.4	98	0.00
45	S	2-Fluorobiphenyl	1.335	1.311	1.8	96	0.00
46		1,1'-Biphenyl	1.374	1.361	0.9	95	0.00
47		2-Chloronaphthalene	1.071	1.056	1.4	95	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG072823\
Data File : BG058518.D
Acq On : 28 Jul 2023 14:51
Operator : MA/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
ICVBG072823

Quant Time: Jul 28 22:35:56 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 28 22:29:07 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
48		2-Nitroaniline	0.409	0.429	-4.9	96	0.00
49		Acenaphthylene	1.793	1.779	0.8	95	0.00
50		Dimethylphthalate	1.502	1.518	-1.1	97	0.00
51		2,6-Dinitrotoluene	0.330	0.341	-3.3	98	0.00
52	C	Acenaphthene	1.036	1.037	-0.1	96	0.00
53		3-Nitroaniline	0.330	0.358	-8.5	99	0.00
54	P	2,4-Dinitrophenol	0.150	0.176	-17.3	103	0.00
55		Dibenzofuran	1.780	1.773	0.4	96	0.00
56	P	4-Nitrophenol	0.222	0.252	-13.5	98	0.00
57		2,4-Dinitrotoluene	0.457	0.488	-6.8	99	0.00
58		Fluorene	1.414	1.424	-0.7	98	0.00
59		2,3,4,6-Tetrachlorophenol	0.424	0.445	-5.0	99	0.00
60		Diethylphthalate	1.530	1.550	-1.3	97	0.00
61		4-Chlorophenyl-phenylether	0.788	0.799	-1.4	98	0.00
62		4-Nitroaniline	0.312	0.357	-14.4	101	0.00
63		Azobenzene	1.507	1.526	-1.3	96	0.00
64	I	Phenanthrene-d10	1.000	1.000	0.0	99	0.00
65		4,6-Dinitro-2-methylphenol	0.110	0.120	-9.1	101	0.00
66	c	n-Nitrosodiphenylamine	0.521	0.515	1.2	97	0.00
67		4-Bromophenyl-phenylether	0.227	0.224	1.3	97	0.00
68		Hexachlorobenzene	0.240	0.240	0.0	100	0.00
69		Atrazine	0.176	0.178	-1.1	99	0.00
70	C	Pentachlorophenol	0.145	0.159	-9.7	101	0.00
71		Phenanthrene	0.948	0.945	0.3	99	0.00
72		Anthracene	0.973	0.971	0.2	98	0.00
73		Carbazole	0.858	0.887	-3.4	99	0.00
74		Di-n-butylphthalate	1.075	1.107	-3.0	99	0.00
75	C	Fluoranthene	1.139	1.165	-2.3	99	0.00
76	I	Chrysene-d12	1.000	1.000	0.0	101	0.00
77		Benzidine	0.303	0.372	-22.8	101	0.00
78		Pyrene	1.361	1.343	1.3	99	0.00
79	S	Terphenyl-d14	1.064	1.051	1.2	101	0.00
80		Butylbenzylphthalate	0.559	0.571	-2.1	101	0.00
81		Benzo(a)anthracene	1.376	1.374	0.1	100	0.00
82		3,3'-Dichlorobenzidine	0.465	0.472	-1.5	99	0.00
83		Chrysene	1.320	1.317	0.2	100	0.00
84		Bis(2-ethylhexyl)phthalate	0.817	0.828	-1.3	100	0.00
85	c	Di-n-octyl phthalate	1.436	1.449	-0.9	99	0.00
86	I	Perylene-d12	1.000	1.000	0.0	101	0.00
87		Indeno(1,2,3-cd)pyrene	1.331	1.350	-1.4	99	0.00
88		Benzo(b)fluoranthene	1.085	1.108	-2.1	100	0.00
89		Benzo(k)fluoranthene	1.090	1.090	0.0	99	0.00
90	C	Benzo(a)pyrene	1.065	1.078	-1.2	100	0.00
91		Dibenzo(a,h)anthracene	1.100	1.128	-2.5	100	0.00
92		Benzo(g,h,i)perylene	1.103	1.136	-3.0	101	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG072823\
Data File : BG058518.D
Acq On : 28 Jul 2023 14:51
Operator : MA/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
ICVBG072823

Quant Time: Jul 28 22:35:56 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 28 22:29:07 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev Area%	Dev(min)

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG072823\
Data File : BG058518.D
Acq On : 28 Jul 2023 14:51
Operator : MA/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
ICVBG072823

Quant Time: Jul 28 22:35:56 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 28 22:29:07 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	20.000	20.000	0.0	90	0.00
2		1,4-Dioxane	40.000	39.604	1.0	90	0.00
3		Pyridine	40.000	40.839	-2.1	91	0.00
4		n-Nitrosodimethylamine	40.000	39.826	0.4	89	0.00
5	S	2-Fluorophenol	80.000	80.813	-1.0	90	0.00
6		Aniline	40.000	41.942	-4.9	91	0.00
7	S	Phenol-d6	80.000	82.980	-3.7	92	0.00
8		2-Chlorophenol	40.000	40.923	-2.3	92	0.00
9		Benzaldehyde	40.000	39.560	1.1	93	0.00
10	C	Phenol	40.000	41.237	-3.1	91	0.00
11		bis(2-Chloroethyl)ether	40.000	40.594	-1.5	92	0.00
12		1,3-Dichlorobenzene	40.000	40.004	-0.0	90	0.00
13	C	1,4-Dichlorobenzene	40.000	40.652	-1.6	92	0.00
14		1,2-Dichlorobenzene	40.000	40.724	-1.8	92	0.00
15		Benzyl Alcohol	40.000	43.600	-9.0	92	0.00
16		2,2'-oxybis(1-Chloropropane	40.000	40.597	-1.5	92	0.00
17		2-Methylphenol	40.000	41.392	-3.5	92	0.00
18		Hexachloroethane	40.000	40.711	-1.8	92	0.00
19	P	n-Nitroso-di-n-propylamine	40.000	42.521	-6.3	95	0.00
20		3+4-Methylphenols	40.000	42.621	-6.6	92	0.00
21	I	Naphthalene-d8	20.000	20.000	0.0	94	0.00
22		Acetophenone	40.000	41.116	-2.8	94	0.00
23	S	Nitrobenzene-d5	80.000	82.321	-2.9	94	0.00
24		Nitrobenzene	40.000	40.699	-1.7	93	0.00
25		Isophorone	40.000	40.845	-2.1	95	0.00
26	C	2-Nitrophenol	40.000	41.335	-3.3	92	0.00
27		2,4-Dimethylphenol	40.000	41.759	-4.4	95	0.00
28		bis(2-Chloroethoxy)methane	40.000	41.199	-3.0	93	0.00
29	C	2,4-Dichlorophenol	40.000	41.072	-2.7	93	0.00
30		1,2,4-Trichlorobenzene	40.000	40.023	-0.1	93	0.00
31		Naphthalene	40.000	40.188	-0.5	94	0.00
32		Benzoic acid	40.000	41.207	-3.0	92	0.00
33		4-Chloroaniline	40.000	42.665	-6.7	94	0.00
34	C	Hexachlorobutadiene	40.000	39.950	0.1	93	0.00
35		Caprolactam	40.000	43.070	-7.7	97	0.00
36	C	4-Chloro-3-methylphenol	40.000	42.127	-5.3	96	0.00
37		2-Methylnaphthalene	40.000	40.513	-1.3	94	0.00
38		1-Methylnaphthalene	40.000	40.616	-1.5	95	0.00
39	I	Acenaphthene-d10	20.000	20.000	0.0	96	0.00
40		1,2,4,5-Tetrachlorobenzene	40.000	39.557	1.1	95	0.00
41	P	Hexachlorocyclopentadiene	40.000	38.726	3.2	96	0.00
42	S	2,4,6-Tribromophenol	80.000	85.119	-6.4	100	0.00
43	C	2,4,6-Trichlorophenol	40.000	39.884	0.3	93	0.00
44		2,4,5-Trichlorophenol	40.000	40.946	-2.4	98	0.00
45	S	2-Fluorobiphenyl	80.000	78.572	1.8	96	0.00
46		1,1'-Biphenyl	40.000	39.637	0.9	95	0.00
47		2-Chloronaphthalene	40.000	39.427	1.4	95	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG072823\
Data File : BG058518.D
Acq On : 28 Jul 2023 14:51
Operator : MA/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
ICVBG072823

Quant Time: Jul 28 22:35:56 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 28 22:29:07 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
48		2-Nitroaniline	40.000	41.985	-5.0	96	0.00
49		Acenaphthylene	40.000	39.693	0.8	95	0.00
50		Dimethylphthalate	40.000	40.429	-1.1	97	0.00
51		2,6-Dinitrotoluene	40.000	41.433	-3.6	98	0.00
52	C	Acenaphthene	40.000	40.041	-0.1	96	0.00
53		3-Nitroaniline	40.000	43.448	-8.6	99	0.00
54	P	2,4-Dinitrophenol	40.000	41.862	-4.7	103	0.00
55		Dibenzofuran	40.000	39.837	0.4	96	0.00
56	P	4-Nitrophenol	40.000	42.888	-7.2	98	0.00
57		2,4-Dinitrotoluene	40.000	42.691	-6.7	99	0.00
58		Fluorene	40.000	40.273	-0.7	98	0.00
59		2,3,4,6-Tetrachlorophenol	40.000	41.977	-4.9	99	0.00
60		Diethylphthalate	40.000	40.529	-1.3	97	0.00
61		4-Chlorophenyl-phenylether	40.000	40.552	-1.4	98	0.00
62		4-Nitroaniline	40.000	45.669	-14.2	101	0.00
63		Azobenzene	40.000	40.491	-1.2	96	0.00
64	I	Phenanthrene-d10	20.000	20.000	0.0	99	0.00
65		4,6-Dinitro-2-methylphenol	40.000	43.707	-9.3	101	0.00
66	c	n-Nitrosodiphenylamine	40.000	39.580	1.1	97	0.00
67		4-Bromophenyl-phenylether	40.000	39.508	1.2	97	0.00
68		Hexachlorobenzene	40.000	39.931	0.2	100	0.00
69		Atrazine	40.000	40.435	-1.1	99	0.00
70	C	Pentachlorophenol	40.000	43.644	-9.1	101	0.00
71		Phenanthrene	40.000	39.862	0.3	99	0.00
72		Anthracene	40.000	39.903	0.2	98	0.00
73		Carbazole	40.000	41.339	-3.3	99	0.00
74		Di-n-butylphthalate	40.000	41.202	-3.0	99	0.00
75	C	Fluoranthene	40.000	40.912	-2.3	99	0.00
76	I	Chrysene-d12	20.000	20.000	0.0	101	0.00
77		Benzidine	40.000	49.035	-22.6	101	0.00
78		Pyrene	40.000	39.478	1.3	99	0.00
79	S	Terphenyl-d14	80.000	79.056	1.2	101	0.00
80		Butylbenzylphthalate	40.000	40.857	-2.1	101	0.00
81		Benzo(a)anthracene	40.000	39.921	0.2	100	0.00
82		3,3'-Dichlorobenzidine	40.000	40.578	-1.4	99	0.00
83		Chrysene	40.000	39.934	0.2	100	0.00
84		Bis(2-ethylhexyl)phthalate	40.000	40.523	-1.3	100	0.00
85	c	Di-n-octyl phthalate	40.000	40.353	-0.9	99	0.00
86	I	Perylene-d12	20.000	20.000	0.0	101	0.00
87		Indeno(1,2,3-cd)pyrene	40.000	40.586	-1.5	99	0.00
88		Benzo(b)fluoranthene	40.000	40.846	-2.1	100	0.00
89		Benzo(k)fluoranthene	40.000	40.002	-0.0	99	0.00
90	C	Benzo(a)pyrene	40.000	40.494	-1.2	100	0.00
91		Dibenzo(a,h)anthracene	40.000	41.008	-2.5	100	0.00
92		Benzo(g,h,i)perylene	40.000	41.204	-3.0	101	0.00

Evaluate Continuing Calibration Report

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG072823\
Data File : BG058518.D
Acq On : 28 Jul 2023 14:51
Operator : MA/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
ICVBG072823

Quant Time: Jul 28 22:35:56 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 28 22:29:07 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)

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

Response Factor Report gcms1

Method Path : Z:\svoasrv\HPCHEM1\BNA_M\Methods\
Method File : 8270-BM072823.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Sat Jul 29 00:19:24 2023
Response Via : Initial Calibration

Calibration Files
2.5 =BM041158.D 5 =BM041159.D 10 =BM041160.D 20 =BM041161.D 40 =BM041162.D 50 =BM041163.D 60 =BM041164.D 80 =BM0411
65.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------	ISTD	----------							
2)		1,4-Dioxane		0.598	0.607	0.601	0.572	0.543	0.562	0.524	0.572	5.54
3)		Pyridine		1.372	1.497	1.610	1.565	1.488	1.538	1.467	1.505	5.09
4)		n-Nitrosodimet...		0.696	0.712	0.741	0.705	0.665	0.695	0.658	0.696	4.05
5)	S	2-Fluorophenol		1.294	1.392	1.395	1.361	1.305	1.348	1.274	1.338	3.59
6)		Aniline		1.995	2.050	2.173	2.060	1.966	2.031	1.935	2.030	3.81
7)	S	Phenol-d6		1.706	1.763	1.842	1.752	1.678	1.751	1.651	1.735	3.65
8)		2-Chlorophenol		1.342	1.345	1.385	1.313	1.247	1.292	1.221	1.306	4.41
9)		Benzaldehyde			1.086	1.006	0.883	0.795	0.806		0.915	13.90
10)	C	Phenol		1.664	1.717	1.775	1.684	1.612	1.688	1.586	1.675	3.78
11)		bis(2-Chloroet...		1.354	1.416	1.443	1.366	1.283	1.356	1.276	1.356	4.56
12)		1,3-Dichlorobe...		1.462	1.495	1.508	1.416	1.353	1.401	1.319	1.422	4.99
13)	C	1,4-Dichlorobe...		1.487	1.501	1.500	1.418	1.363	1.409	1.327	1.429	4.85
14)		1,2-Dichlorobe...		1.444	1.444	1.440	1.363	1.301	1.342	1.259	1.370	5.47
15)		Benzyl Alcohol		1.115	1.002	1.114	1.109	1.087	1.150	1.090	1.095	4.21
16)		2,2'-oxybis(1-...		1.909	1.876	1.941	1.807	1.699	1.770	1.645	1.807	6.08
17)		2-Methylphenol		1.152	1.136	1.217	1.165	1.103	1.155	1.084	1.145	3.78
18)		Hexachloroethane		0.538	0.531	0.560	0.544	0.514	0.533	0.505	0.532	3.49
19)	P	n-Nitroso-di-n...	1.022	1.024	1.037	1.140	1.082	1.029	1.096	0.999	1.054	4.50
20)		3+4-Methylphenols		1.453	1.524	1.643	1.562	1.489	1.571	1.471	1.530	4.36
21)	I	Naphthalene-d8	----------	ISTD	----------							
22)		Acetophenone		0.511	0.513	0.545	0.539	0.521	0.547	0.531	0.530	2.80
23)	S	Nitrobenzene-d5		0.395	0.420	0.442	0.442	0.429	0.448	0.435	0.430	4.24
24)		Nitrobenzene		0.409	0.430	0.449	0.446	0.428	0.447	0.436	0.435	3.30
25)		Isophorone		0.653	0.682	0.752	0.752	0.731	0.787	0.753	0.730	6.39
26)	C	2-Nitrophenol		0.139	0.148	0.169	0.180	0.177	0.188	0.188	0.170	11.40
27)		2,4-Dimethylph...		0.271	0.290	0.309	0.309	0.298	0.308	0.308	0.299	4.82
28)		bis(2-Chloroet...		0.433	0.448	0.474	0.469	0.447	0.474	0.455	0.457	3.44
29)	C	2,4-Dichloroph...		0.262	0.285	0.312	0.313	0.303	0.322	0.313	0.302	6.97
30)		1,2,4-Trichlor...		0.324	0.328	0.338	0.336	0.328	0.343	0.338	0.333	2.09
31)		Naphthalene		1.089	1.087	1.118	1.089	1.048	1.100	1.066	1.085	2.08
32)		Benzoic acid			0.118	0.167	0.205	0.213	0.243	0.242	0.198	24.33
33)		4-Chloroaniline		0.389	0.418	0.443	0.446	0.431	0.465	0.445	0.434	5.66
34)	C	Hexachlorobuta...		0.196	0.192	0.204	0.204	0.197	0.205	0.204	0.200	2.61
35)		Caprolactam			0.071	0.082	0.089	0.088	0.100	0.093	0.087	11.31
36)	C	4-Chloro-3-met...		0.287	0.297	0.325	0.326	0.318	0.344	0.326	0.318	6.07
37)		2-Methylnaphth...		0.707	0.716	0.751	0.737	0.712	0.764	0.734	0.732	2.88
38)		1-Methylnaphth...		0.673	0.670	0.701	0.689	0.666	0.713	0.682	0.685	2.51

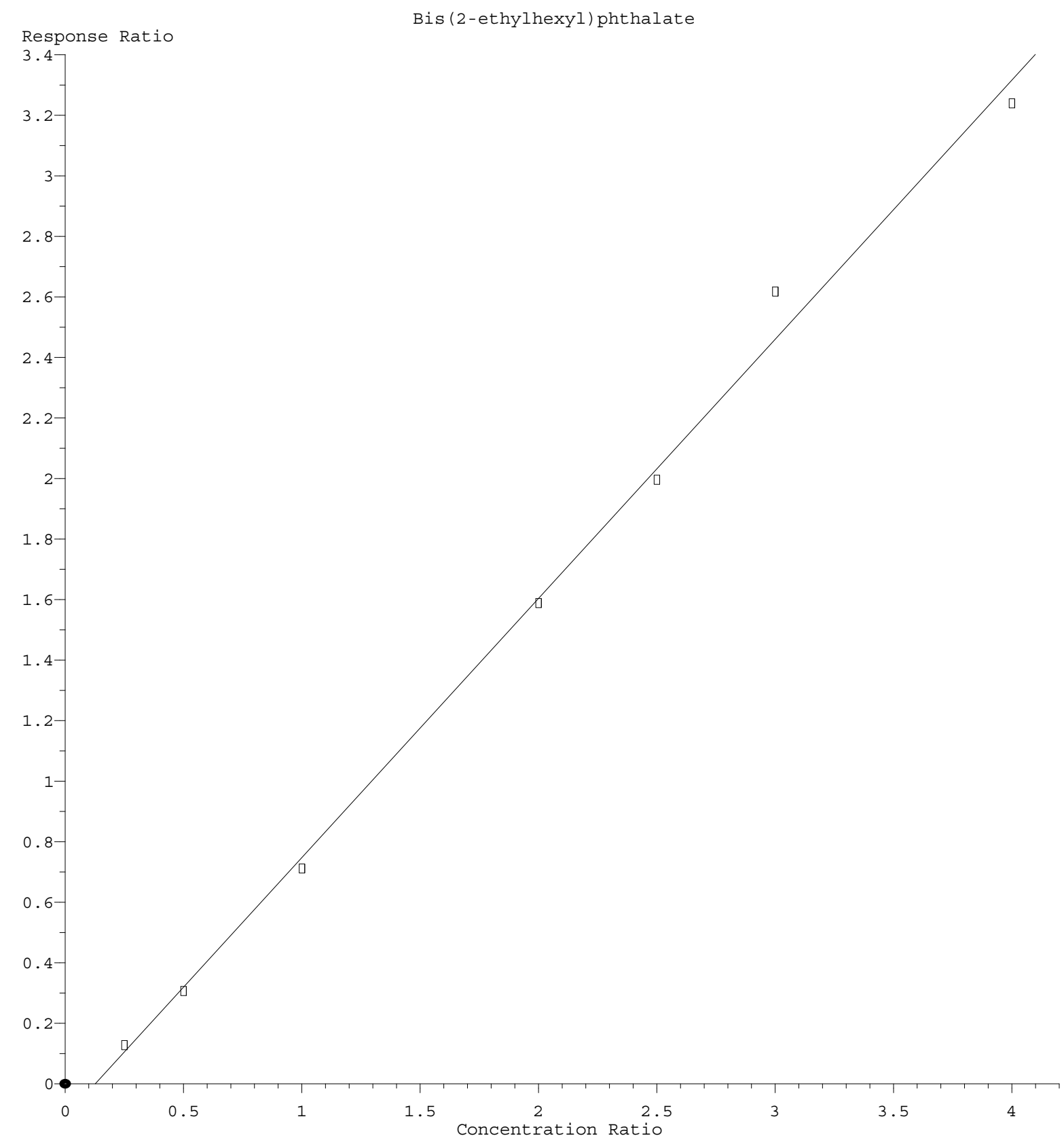
Method Path : Z:\svoasrv\HPCHEM1\BNA_M\Methods\
Method File : 8270-BM072823.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.611	0.637	0.663	0.661	0.644	0.660	0.670	0.649	3.16
41)	P	Hexachlorocycl...		0.266	0.320	0.361	0.357	0.362	0.396	0.344	13.11
42)	S	2,4,6-Tribromo...	0.241	0.258	0.285	0.292	0.286	0.313	0.305	0.283	8.96
43)	C	2,4,6-Trichlor...	0.353	0.390	0.425	0.434	0.421	0.444	0.447	0.416	8.15
44)		2,4,5-Trichlor...	0.414	0.455	0.490	0.497	0.489	0.514	0.514	0.482	7.43
45)	S	2-Fluorobiphenyl	1.537	1.543	1.618	1.622	1.552	1.614	1.597	1.583	2.39
46)		1,1'-Biphenyl	1.568	1.603	1.667	1.648	1.585	1.649	1.629	1.621	2.26
47)		2-Chloronaphth...	1.172	1.200	1.240	1.230	1.182	1.225	1.226	1.211	2.17
48)		2-Nitroaniline	0.296	0.330	0.387	0.415	0.406	0.439	0.431	0.386	13.83
49)		Acenaphthylene	1.783	1.890	2.017	2.018	1.930	2.037	2.003	1.954	4.74
50)		Dimethylphthalate	1.429	1.464	1.532	1.524	1.477	1.588	1.518	1.504	3.48
51)		2,6-Dinitrotol...	0.261	0.289	0.318	0.325	0.317	0.342	0.330	0.312	8.87
52)	C	Acenaphthene	1.139	1.153	1.204	1.193	1.153	1.210	1.188	1.177	2.41
53)		3-Nitroaniline	0.231	0.276	0.332	0.354	0.346	0.377	0.368	0.326	16.40
54)	P	2,4-Dinitrophenol		0.118	0.163	0.187	0.189	0.213	0.212	0.180	19.75
55)		Dibenzofuran	1.880	1.907	1.969	1.936	1.865	1.974	1.915	1.921	2.16
56)	P	4-Nitrophenol		0.191	0.246	0.269	0.266	0.297	0.289	0.260	14.63
57)		2,4-Dinitrotol...	0.283	0.341	0.408	0.430	0.427	0.471	0.454	0.402	16.61
58)		Fluorene	1.449	1.458	1.548	1.533	1.487	1.590	1.540	1.515	3.41
59)		2,3,4,6-Tetrac...	0.355	0.367	0.398	0.397	0.390	0.418	0.405	0.390	5.55
60)		Diethylphthalate	1.349	1.387	1.463	1.480	1.444	1.578	1.483	1.455	5.07
61)		4-Chlorophenyl...	0.694	0.721	0.766	0.775	0.753	0.818	0.789	0.759	5.48
62)		4-Nitroaniline	0.166	0.215	0.273	0.313	0.322	0.353	0.346	0.284	24.77
63)		Azobenzene	1.364	1.505	1.650	1.666	1.610	1.722	1.639	1.594	7.60
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.089	0.114	0.127	0.126	0.136	0.135	0.121	14.65
66)	c	n-Nitrosodiphe...	0.578	0.606	0.636	0.644	0.614	0.643	0.634	0.622	3.87
67)		4-Bromophenyl-...	0.200	0.209	0.222	0.225	0.220	0.231	0.228	0.219	5.08
68)		Hexachlorobenzene	0.234	0.238	0.246	0.247	0.239	0.253	0.250	0.244	2.83
69)		Atrazine	0.151	0.164	0.171	0.169	0.164	0.163	0.161	0.163	4.09
70)	C	Pentachlorophenol	0.132	0.150	0.168	0.180	0.176	0.190	0.187	0.169	12.55
71)		Phenanthrene	1.081	1.102	1.122	1.126	1.083	1.145	1.119	1.111	2.14
72)		Anthracene	0.981	1.047	1.115	1.142	1.092	1.168	1.148	1.099	5.99
73)		Carbazole	0.870	0.952	1.005	1.039	1.001	1.061	1.035	0.995	6.54
74)		Di-n-butylphth...	0.892	0.992	1.099	1.196	1.180	1.297	1.212	1.124	12.48
75)	C	Fluoranthene	1.111	1.191	1.239	1.285	1.253	1.348	1.311	1.248	6.34
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine	0.214	0.253	0.243	0.331	0.287	0.285	0.294	0.273	14.14
78)		Pyrene	1.339	1.317	1.445	1.432	1.388	1.458	1.411	1.399	3.82
79)	S	Terphenyl-d14	1.023	1.028	1.125	1.146	1.120	1.187	1.115	1.106	5.44
80)		Butylbenzylpht...	0.385	0.432	0.504	0.550	0.550	0.593	0.562	0.511	14.84
81)		Benzo(a)anthra...	1.253	1.301	1.389	1.390	1.351	1.420	1.386	1.356	4.35
82)		3,3'-Dichlorob...	0.350	0.407	0.448	0.476	0.458	0.488	0.470	0.442	10.92
83)		Chrysene	1.269	1.286	1.339	1.322	1.282	1.365	1.318	1.311	2.64
84)		Bis(2-ethylhex...	0.511	0.613	0.712	0.794	0.798	0.872	0.810	0.730	17.46
85)	c	Di-n-octyl pht...		1.040	1.185	1.335	1.340	1.475	1.370	1.291	11.95

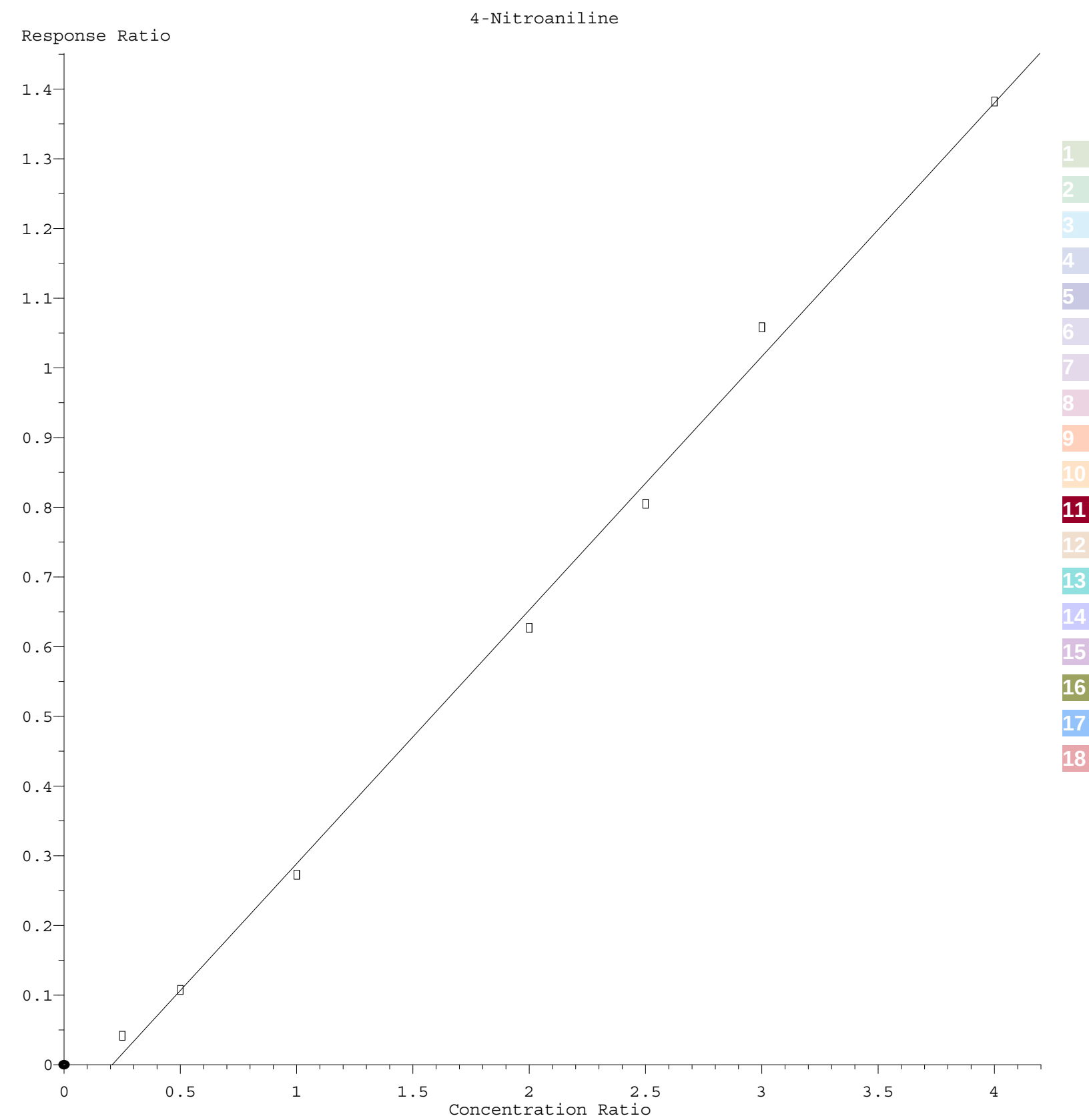
Method Path : Z:\svoasrv\HPCHEM1\BNA_M\Methods\
Method File : 8270-BM072823.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.322	1.387	1.477	1.519	1.482	1.559	1.546	1.470	5.89
88)		Benzo(b)fluora...	1.097	1.138	1.180	1.211	1.192	1.268	1.231	1.188	4.81
89)		Benzo(k)fluora...	1.096	1.139	1.243	1.291	1.211	1.272	1.255	1.215	5.94
90)	C	Benzo(a)pyrene	1.014	1.059	1.149	1.189	1.164	1.215	1.202	1.142	6.69
91)		Dibenzo(a,h)an...	1.081	1.153	1.221	1.266	1.245	1.312	1.308	1.226	6.85
92)		Benzo(g,h,i)pe...	1.126	1.161	1.219	1.234	1.187	1.247	1.227	1.200	3.67

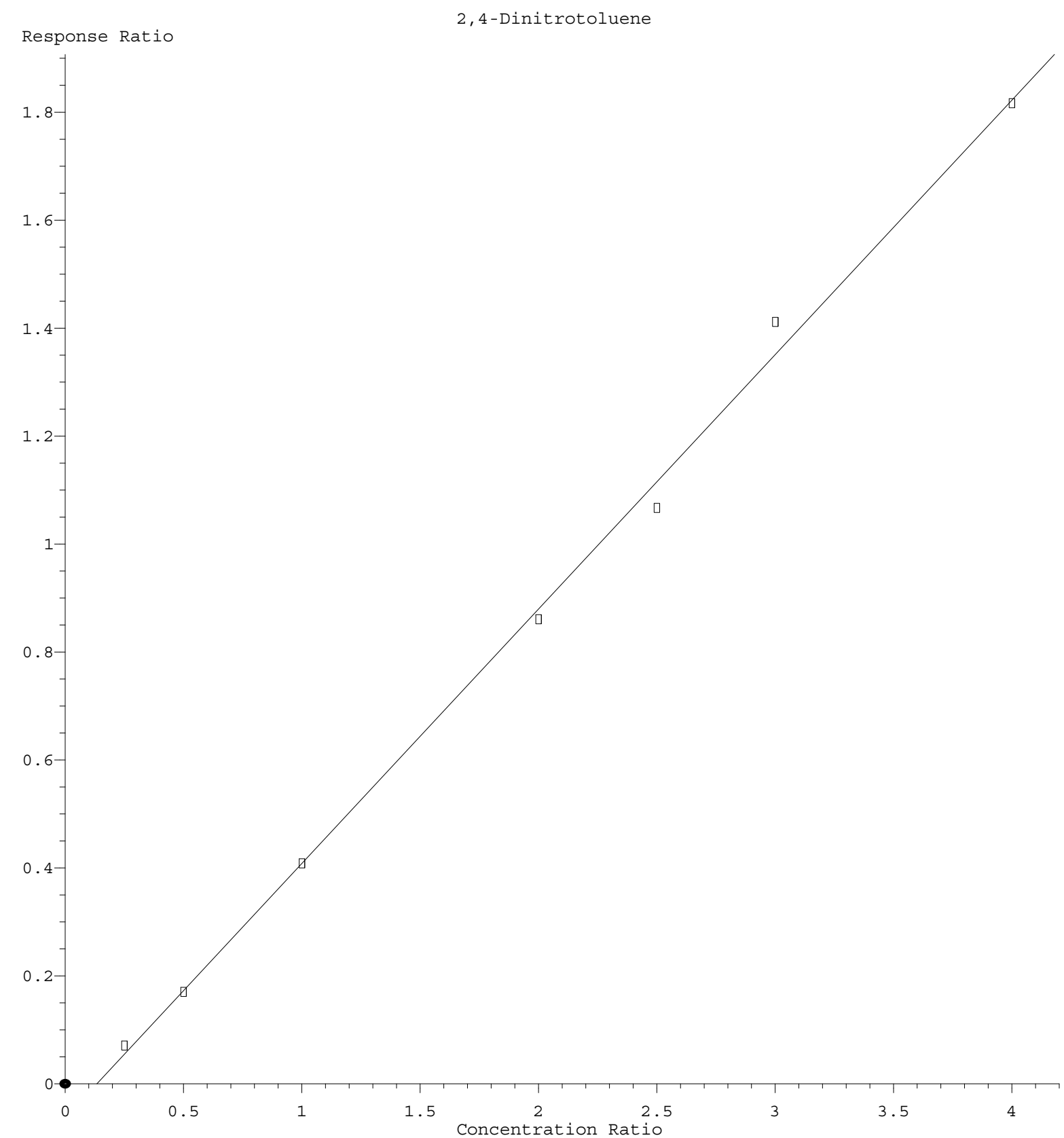
(#) = Out of Range



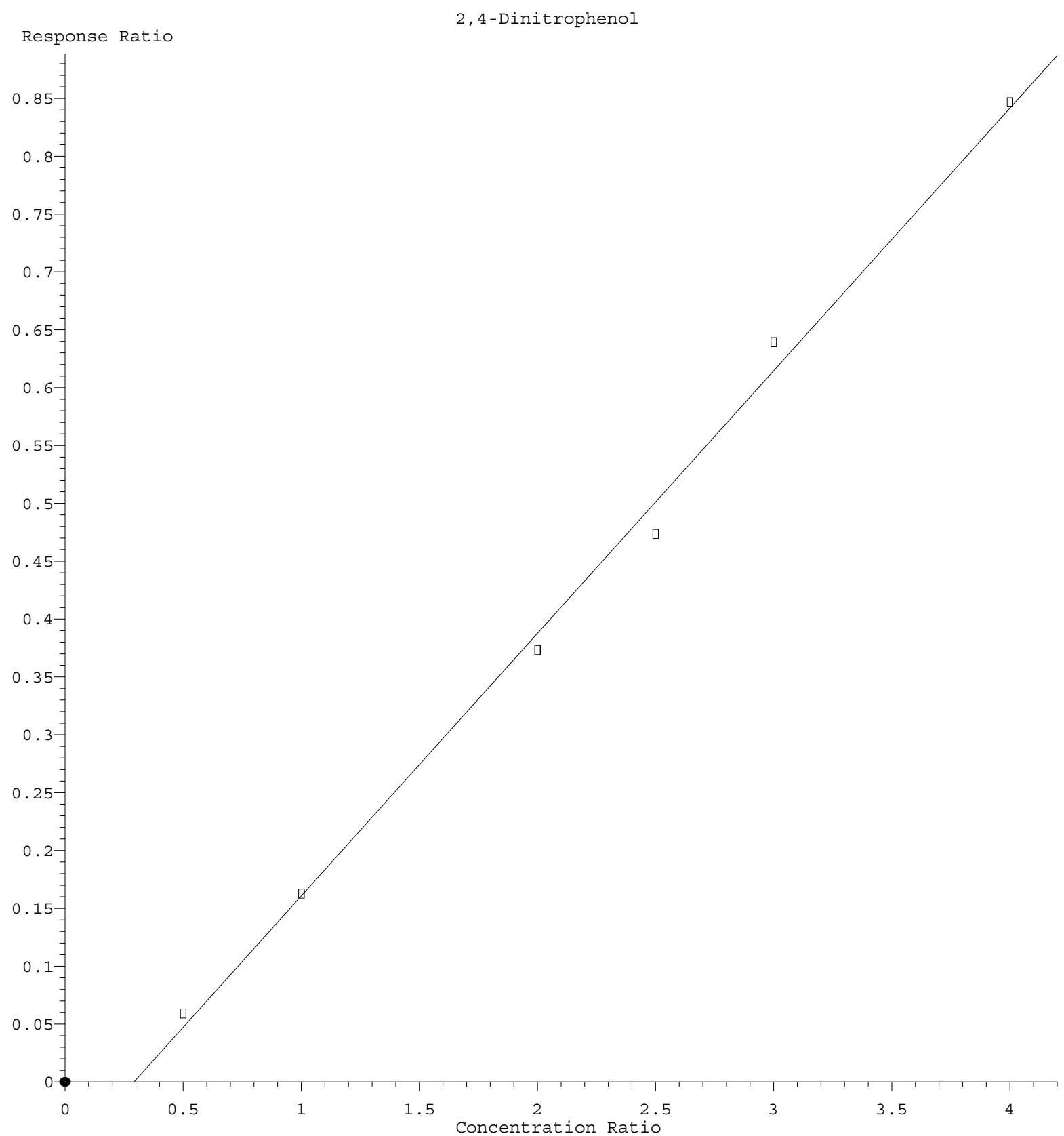
Response = 8.564e-001 * Amt - 1.087e-001
Coef of Det (r^2) = 0.995959 Curve Fit: Linear
Method: \\chromsrv\HPCHEM1\BNA M\Methods\8270-BM072823.M
Calibration Table Last Updated: Sat Jul 29 00:19:24 2023



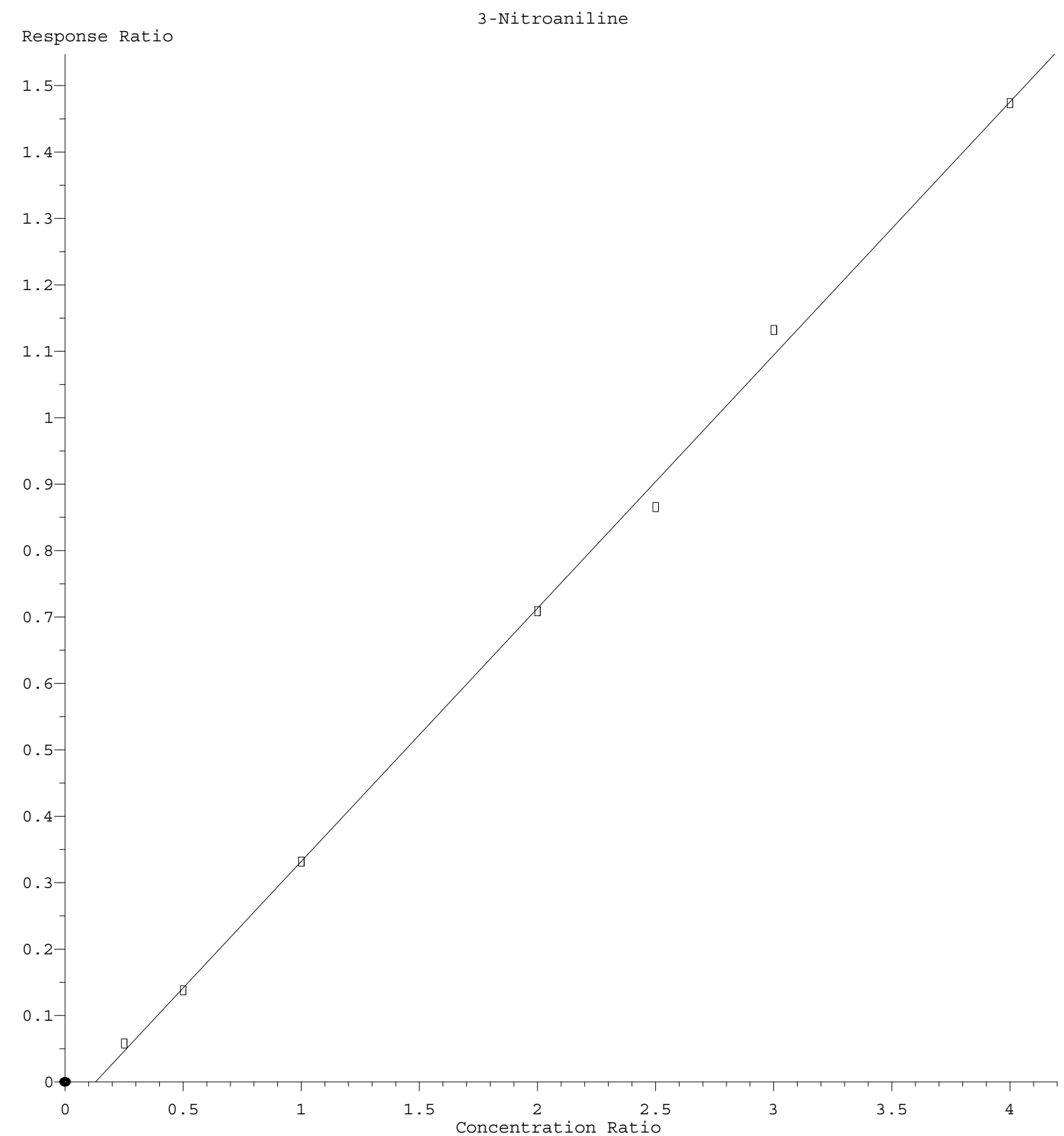
Response = 3.639e-001 * Amt - 7.547e-002
Coef of Det (r^2) = 0.997240 Curve Fit: Linear
Method: \\chemsrv\HPCHEM1\BNA M\Methods\8270-BM072823.M
Calibration Table Last Updated: Sat Jul 29 00:19:24 2023



Response = 4.714e-001 * Amt - 6.294e-002
Coef of Det (r^2) = 0.997396 Curve Fit: Linear
Method: \\chemsrv\HPCHEM1\BNA M\Methods\8270-BM072823.M
Calibration Table Last Updated: Sat Jul 29 00:19:24 2023



Response = 2.271e-001 * Amt - 6.624e-002
Coef of Det (r^2) = 0.995929 Curve Fit: Linear
Method: \\chemsrv\HPCHEM1\BNA M\Methods\8270-BM072823.M
Calibration Table Last Updated: Sat Jul 29 00:19:24 2023



Response = 3.812e-001 * Amt - 4.912e-002
Coef of Det (r^2) = 0.998168 Curve Fit: Linear
Method: \\chromsrv\HPCHEM1\BNA M\Methods\8270-BM072823.M
Calibration Table Last Updated: Sat Jul 29 00:19:24 2023

Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM072823\
Data File : BM041158.D
Acq On : 28 Jul 2023 10:14
Operator : MA/JU
Sample : SSTDICC2.5
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
SSTDICC2.5

Quant Time: Jul 28 23:19:30 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 28 23:18:49 2023
Response via : Initial Calibration

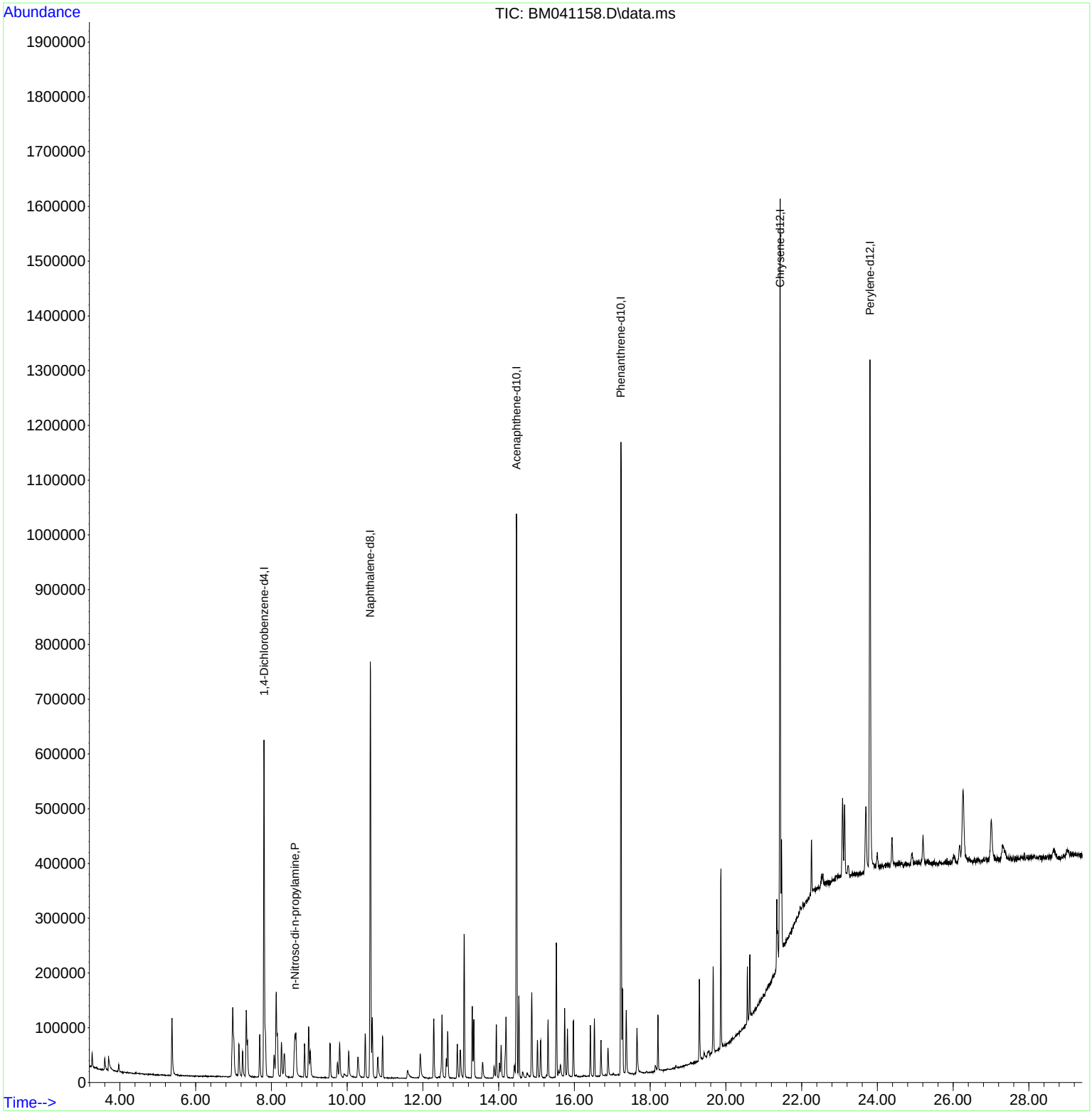
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.804	152	156092	20.000	ng	0.00
21) Naphthalene-d8	10.610	136	597898	20.000	ng	0.00
39) Acenaphthene-d10	14.468	164	329650	20.000	ng	0.00
64) Phenanthrene-d10	17.227	188	657557	20.000	ng	0.00
76) Chrysene-d12	21.433	240	589530	20.000	ng	0.00
86) Perylene-d12	23.803	264	671682	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0d	0.000	ng	
7) Phenol-d6	0.000	99	0d	0.000	ng	
23) Nitrobenzene-d5	0.000	82	0d	0.000	ng	
42) 2,4,6-Tribromophenol	0.000	330	0d	0.000	ng	
45) 2-Fluorobiphenyl	0.000	172	0d	0.000	ng	
79) Terphenyl-d14	0.000	244	0d	0.000	ng	
Target Compounds						Qvalue
19) n-Nitroso-di-n-propyla...	8.622	70	19945	2.426	ng	# 97

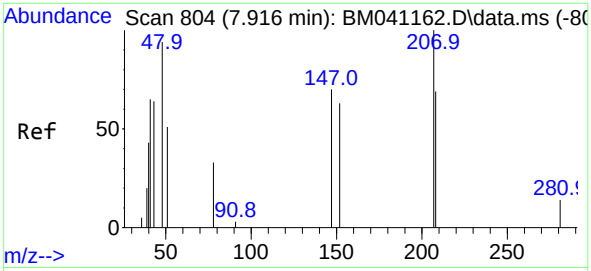
(#) = qualifier out of range (m) = manual integration (+) = signals summed

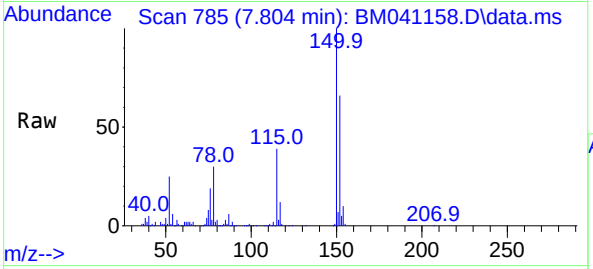
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM072823\
Data File : BM041158.D
Acq On : 28 Jul 2023 10:14
Operator : MA/JU
Sample : SSTDICC2.5
Misc :
ALS Vial : 2 Sample Multiplier: 1

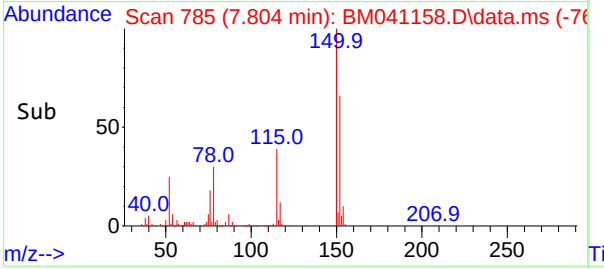
Instrument :
BNA_M
ClientSampleId :
SSTDICC2.5

Quant Time: Jul 28 23:19:30 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 28 23:18:49 2023
Response via : Initial Calibration







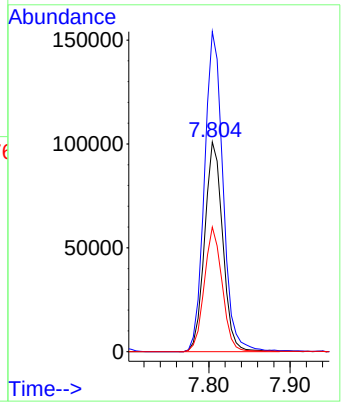


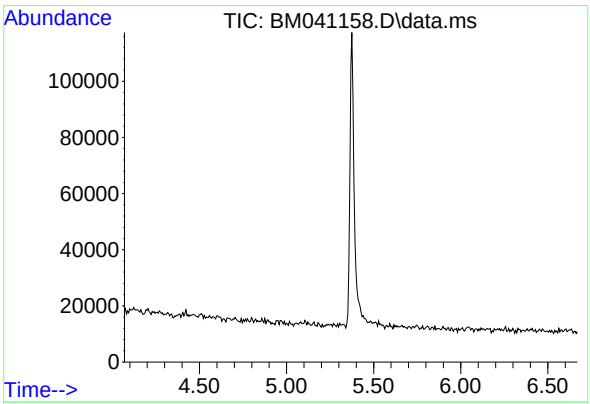
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.804 min Scan# 7
Delta R.T. 0.000 min
Lab File: BM041158.D
Acq: 28 Jul 2023 10:14

Instrument :
BNA_M
ClientSampleId :
SSTDICC2.5

Tgt Ion:152 Resp: 156092

Ion	Ratio	Lower	Upper
152	100		
150	152.5	125.5	188.3
115	59.4	48.0	72.0



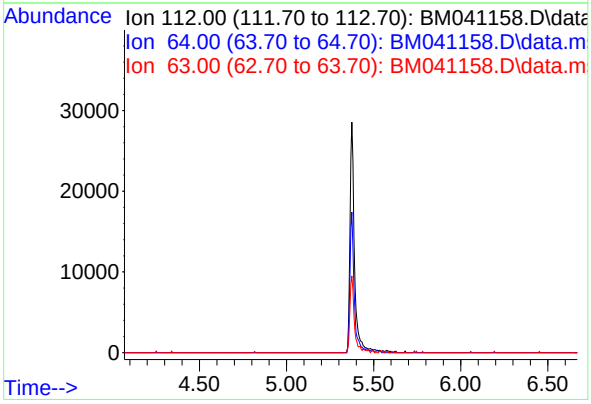


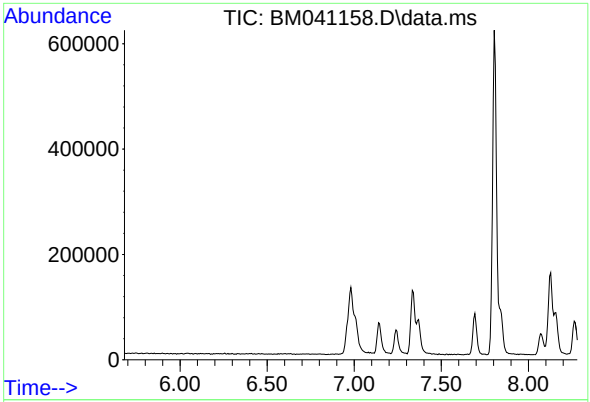
#5
2-Fluorophenol
Concen: 0.000 ng
Expected RT: 5.37 min

Lab File: BM041158.D
Acq: 28 Jul 2023 10:14

Tgt Ion: 112

Sig	Exp Ratio
112	100
64	60.6
63	33.1





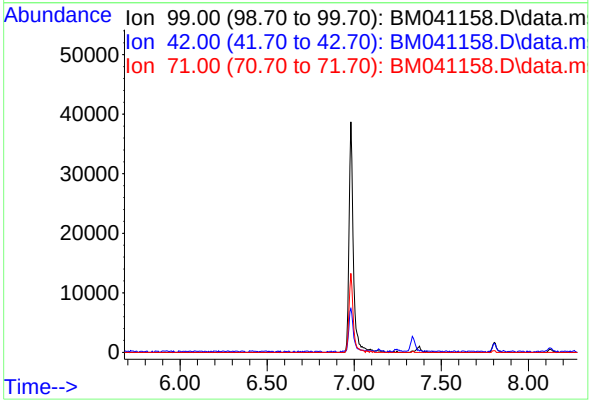
#7
Phenol-d6
Concen: 0.000 ng
Expected RT: 6.98 min

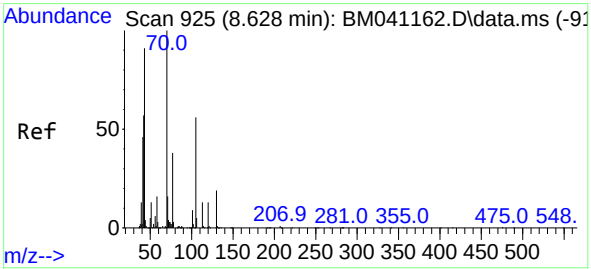
Lab File: BM041158.D
Acq: 28 Jul 2023 10:14

Instrument :
BNA_M
ClientSampleId :
SSTDICC2.5

Tgt Ion: 99

Sig	Exp Ratio
99	100
42	19.2
71	35.3

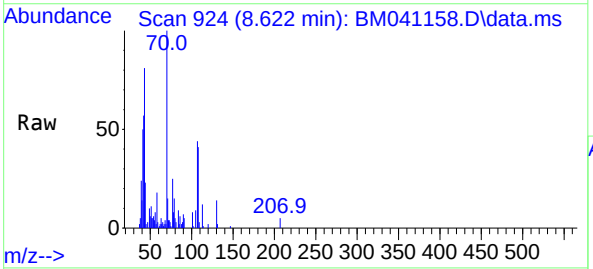


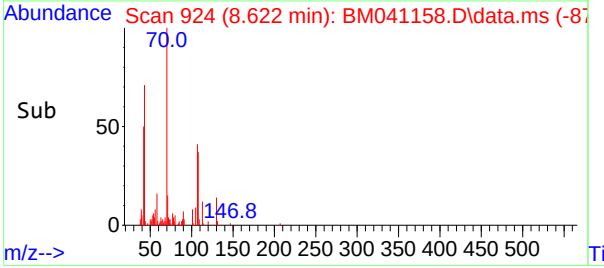


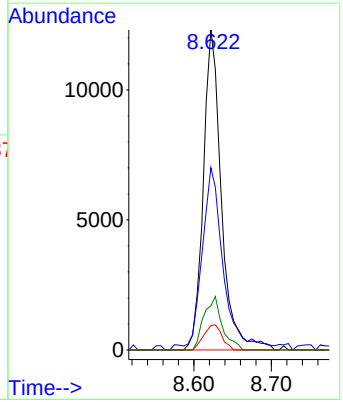
#19
n-Nitroso-di-n-propylamine
Concen: 2.426 ng
RT: 8.622 min Scan# 924
Delta R.T. -0.006 min
Lab File: BM041158.D
Acq: 28 Jul 2023 10:14

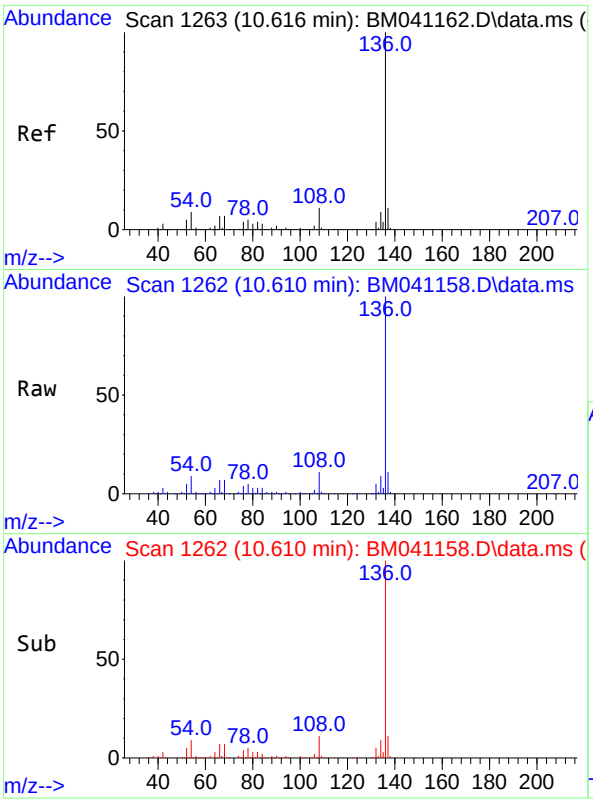
Tgt Ion: 70 Resp: 19945

Ion	Ratio	Lower	Upper
70	100		
42	56.9	45.8	68.8
101	7.6	7.4	11.0
130	13.8	15.2	22.8#







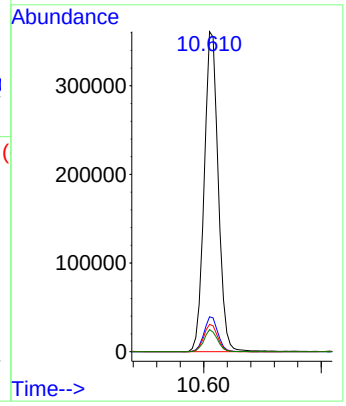


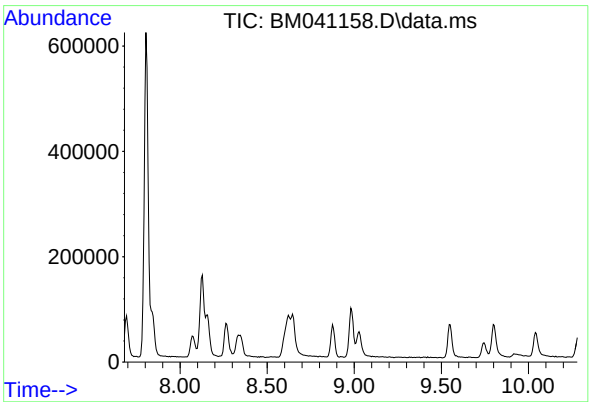
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.610 min Scan# 1
Delta R.T. -0.006 min
Lab File: BM041158.D
Acq: 28 Jul 2023 10:14

Instrument :
BNA_M
ClientSampleId :
SSTDICC2.5

Tgt Ion:136 Resp: 597898

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.8	13.2
54	8.5	6.9	10.3
68	6.9	5.4	8.2



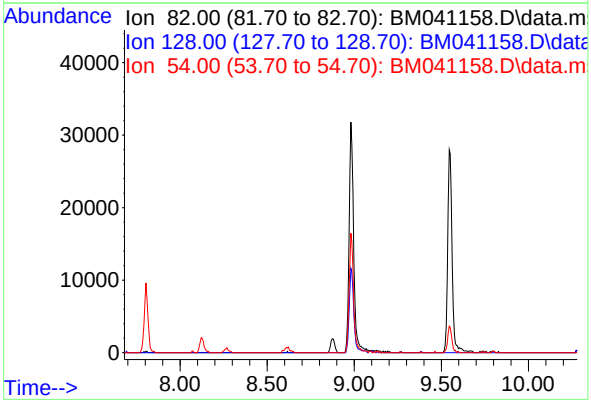


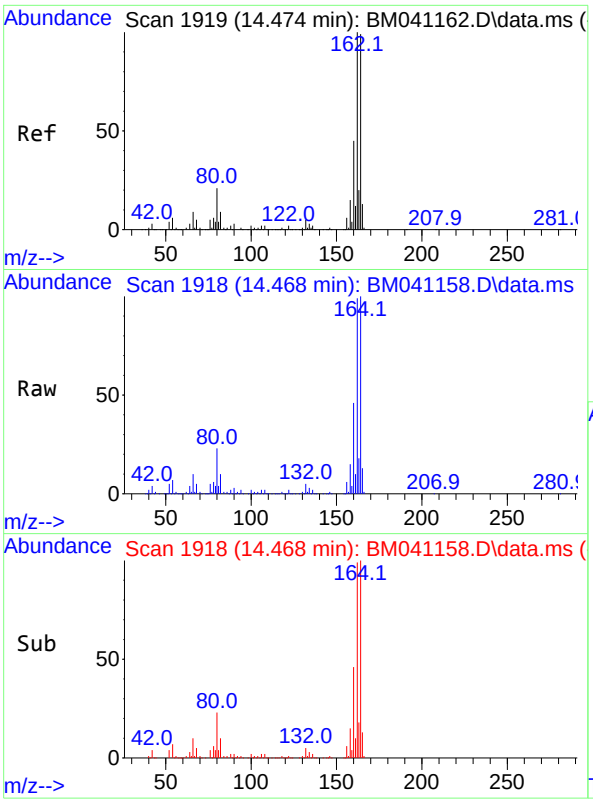
#23
Nitrobenzene-d5
Concen: 0.000 ng
Expected RT: 8.98 min

Lab File: BM041158.D
Acq: 28 Jul 2023 10:14

Tgt Ion: 82

Sig	Exp Ratio
82	100
128	39.7
54	50.1



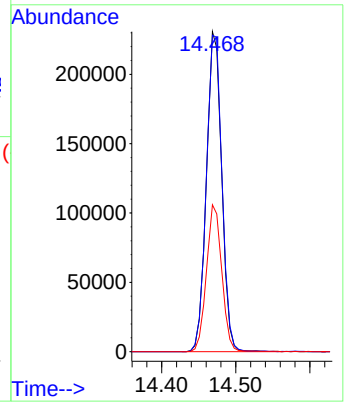


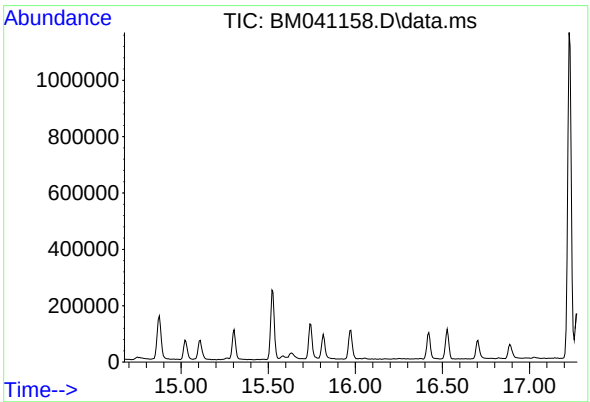
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.468 min Scan# 1
Delta R.T. -0.006 min
Lab File: BM041158.D
Acq: 28 Jul 2023 10:14

Instrument :
BNA_M
ClientSampleId :
SSTDICC2.5

Tgt Ion:164 Resp: 329650

Ion	Ratio	Lower	Upper
164	100		
162	98.9	80.4	120.6
160	45.9	36.2	54.2



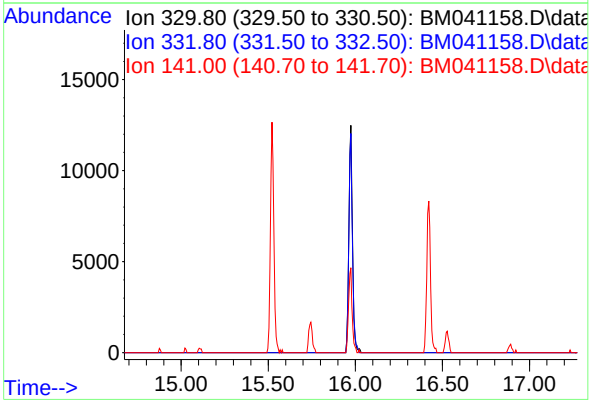


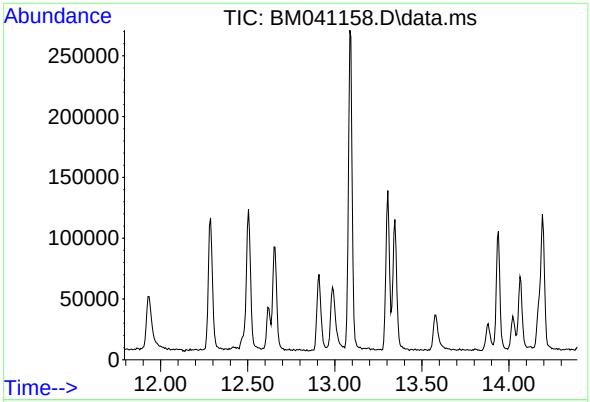
#42
2,4,6-Tribromophenol
Concen: 0.000 ng
Expected RT: 15.97 min

Lab File: BM041158.D
Acq: 28 Jul 2023 10:14

Tgt Ion: 330

Sig	Exp Ratio
330	100
332	97.1
141	35.4





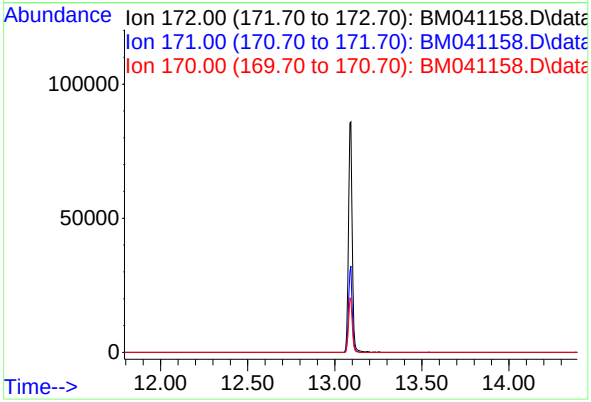
#45
2-Fluorobiphenyl
Concen: 0.000 ng
Expected RT: 13.09 min

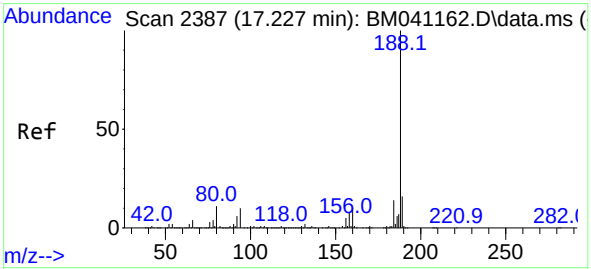
Lab File: BM041158.D
Acq: 28 Jul 2023 10:14

Instrument :
BNA_M
ClientSampleId :
SSTDICC2.5

Tgt Ion: 172

Sig	Exp Ratio
172	100
171	35.1
170	23.6

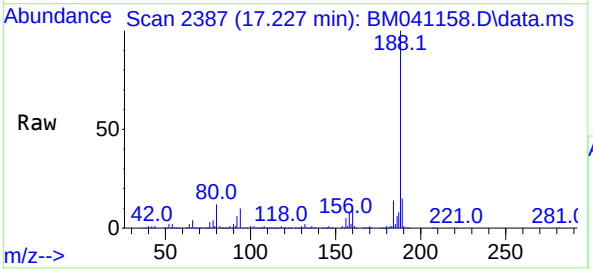


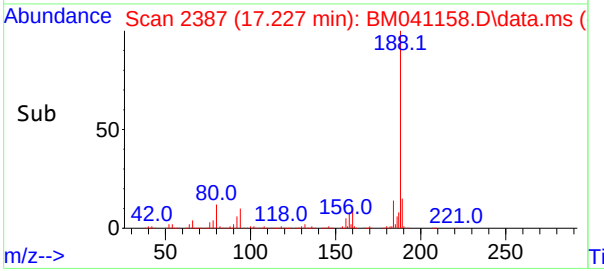


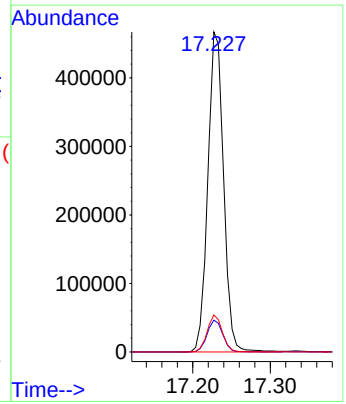
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.227 min Scan# 2387
Delta R.T. -0.000 min
Lab File: BM041158.D
Acq: 28 Jul 2023 10:14

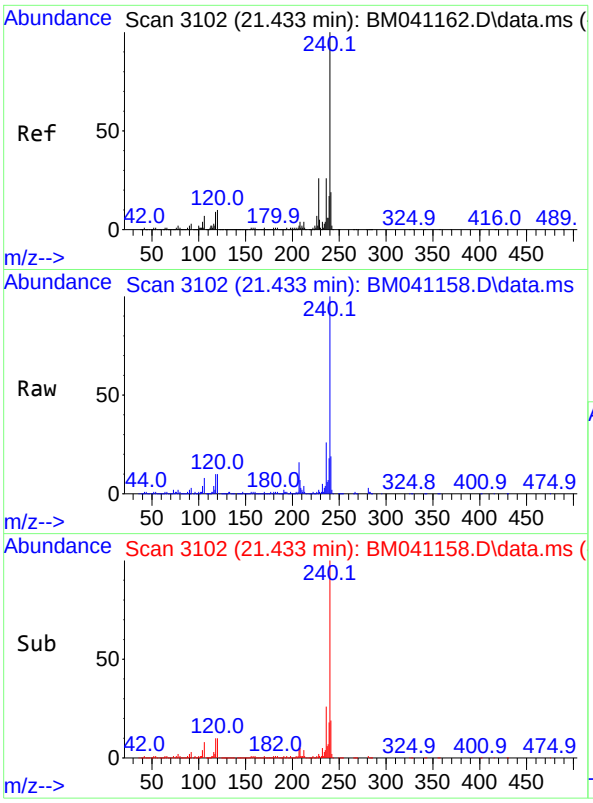
Tgt Ion:188 Resp: 657557

Ion	Ratio	Lower	Upper
188	100		
94	10.0	8.2	12.2
80	11.5	8.6	13.0







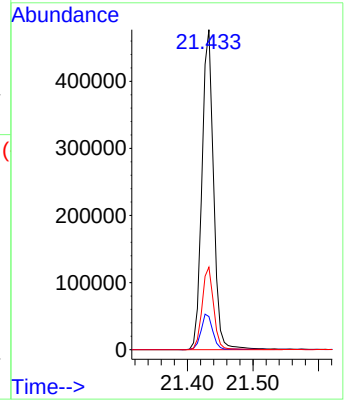


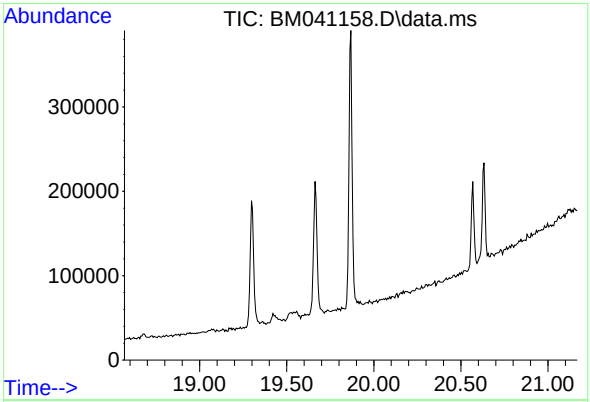
#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.433 min Scan# 3
Delta R.T. -0.000 min
Lab File: BM041158.D
Acq: 28 Jul 2023 10:14

Instrument :
BNA_M
ClientSampleId :
SSTDICC2.5

Tgt Ion:240 Resp: 589530

Ion	Ratio	Lower	Upper
240	100		
120	10.4	8.3	12.5
236	25.8	20.6	30.8



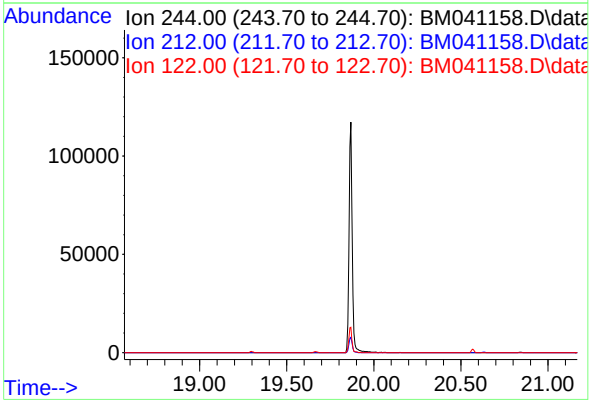


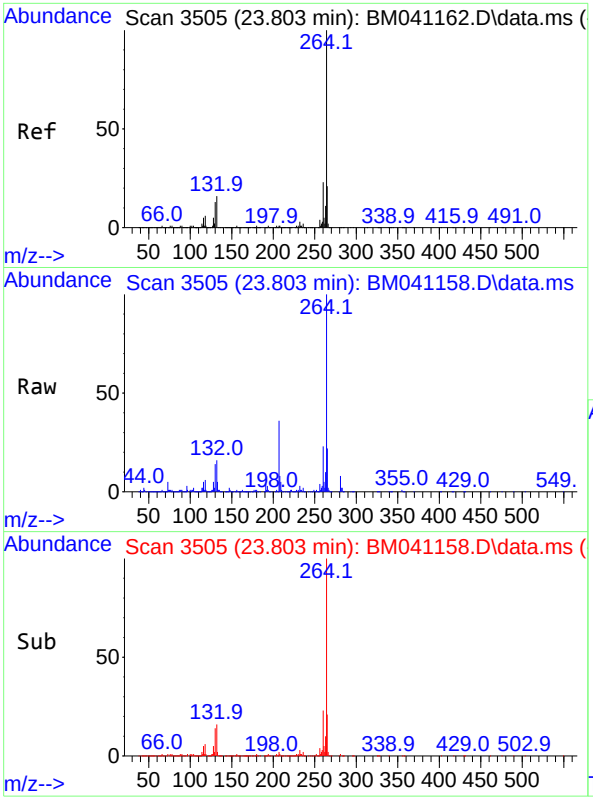
#79
Terphenyl-d14
Concen: 0.000 ng
Expected RT: 19.87 min

Lab File: BM041158.D
Acq: 28 Jul 2023 10:14

Tgt Ion: 244

Sig	Exp Ratio
244	100
212	6.8
122	9.7



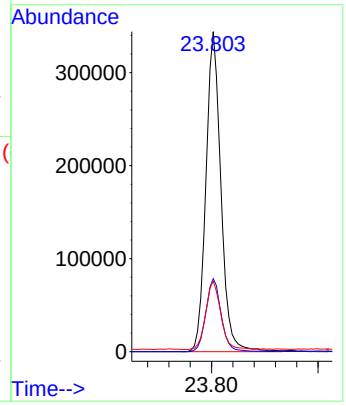


#86
Perylene-d12
Concen: 20.000 ng
RT: 23.803 min Scan# 3
Delta R.T. -0.000 min
Lab File: BM041158.D
Acq: 28 Jul 2023 10:14

Instrument :
BNA_M
ClientSampleId :
SSTDICC2.5

Tgt Ion:264 Resp: 671682

Ion	Ratio	Lower	Upper
264	100		
260	22.8	18.5	27.7
265	22.0	17.4	26.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM072823\
Data File : BM041159.D
Acq On : 28 Jul 2023 10:51
Operator : MA/JU
Sample : SSTDICC005
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 28 23:59:42 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 28 23:54:24 2023
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.804	152	159583	20.000	ng		0.00
21) Naphthalene-d8	10.610	136	620057	20.000	ng		0.00
39) Acenaphthene-d10	14.468	164	341170	20.000	ng		0.00
64) Phenanthrene-d10	17.227	188	686242	20.000	ng		0.00
76) Chrysene-d12	21.433	240	604138	20.000	ng		0.00
86) Perylene-d12	23.803	264	672689	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.375	112	103254	9.670	ng		0.00
7) Phenol-d6	6.981	99	136129	9.836	ng		0.00
23) Nitrobenzene-d5	8.981	82	122356	9.177	ng		0.00
42) 2,4,6-Tribromophenol	15.968	330	41177	8.533	ng		0.00
45) 2-Fluorobiphenyl	13.086	172	262116	9.705	ng		0.00
79) Terphenyl-d14	19.862	244	309144	9.252	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.263	88	23838	5.219	ng		99
3) Pyridine	3.687	79	54722	4.571	ng		93
4) n-Nitrosodimethylamine	3.593	42	27764	4.998	ng	#	94
6) Aniline	7.140	93	79576	4.913	ng		98
8) 2-Chlorophenol	7.369	128	53552	5.138	ng		99
10) Phenol	7.004	94	66394	4.967	ng		94
11) bis(2-Chloroethyl)ether	7.240	93	54007	4.991	ng		99
12) 1,3-Dichlorobenzene	7.692	146	58342	5.142	ng		98
13) 1,4-Dichlorobenzene	7.840	146	59313	5.201	ng		98
14) 1,2-Dichlorobenzene	8.157	146	57622	5.270	ng		96
15) Benzyl Alcohol	8.069	79	44502	5.091	ng		99
16) 2,2'-oxybis(1-Chloropr...	8.334	45	76171m	5.283	ng		
17) 2-Methylphenol	8.263	107	45948	5.031	ng		97
18) Hexachloroethane	8.875	117	21461	5.055	ng		96
19) n-Nitroso-di-n-propyla...	8.622	70	40856	4.860	ng		95
20) 3+4-Methylphenols	8.598	107	57967	4.747	ng		97
22) Acetophenone	8.645	105	79221	4.824	ng	#	97
24) Nitrobenzene	9.022	77	63351	4.698	ng		95
25) Isophorone	9.545	82	101205	4.471	ng		98
26) 2-Nitrophenol	9.739	139	21560	4.090	ng		97
27) 2,4-Dimethylphenol	9.798	122	41974	4.525	ng		99
28) bis(2-Chloroethoxy)met...	10.033	93	67159	4.737	ng		99
29) 2,4-Dichlorophenol	10.275	162	40609	4.341	ng		96
30) 1,2,4-Trichlorobenzene	10.475	180	50167	4.854	ng		99
31) Naphthalene	10.663	128	168740	5.015	ng		100
33) 4-Chloroaniline	10.804	127	60288	4.483	ng		98
34) Hexachlorobutadiene	10.933	225	30331	4.880	ng		97
36) 4-Chloro-3-methylphenol	11.927	107	44539	4.524	ng		99
37) 2-Methylnaphthalene	12.280	142	109645	4.833	ng		99
38) 1-Methylnaphthalene	12.504	142	104317	4.913	ng		98
40) 1,2,4,5-Tetrachloroben...	12.651	216	52093	4.702	ng		99
43) 2,4,6-Trichlorophenol	12.904	196	30081	4.236	ng		96
44) 2,4,5-Trichlorophenol	12.980	196	35335	4.300	ng		98
46) 1,1'-Biphenyl	13.298	154	133740	4.835	ng		99
47) 2-Chloronaphthalene	13.345	162	99955	4.840	ng		98
48) 2-Nitroaniline	13.569	65	25288	3.836	ng		91

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM072823\
Data File : BM041159.D
Acq On : 28 Jul 2023 10:51
Operator : MA/JU
Sample : SSTDICC005
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 28 23:59:42 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 28 23:54:24 2023
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
49) Acenaphthylene	14.192	152	152074	4.562	ng		99
50) Dimethylphthalate	13.933	163	121885	4.749	ng		99
51) 2,6-Dinitrotoluene	14.063	165	22258	4.186	ng		86
52) Acenaphthene	14.533	154	97160	4.838	ng		97
53) 3-Nitroaniline	14.404	138	19722	5.611	ng		93
55) Dibenzofuran	14.874	168	160314	4.893	ng		98
57) 2,4-Dinitrotoluene	14.863	165	24152	5.674	ng	#	78
58) Fluorene	15.521	166	123622	4.783	ng		99
59) 2,3,4,6-Tetrachlorophenol	15.104	232	30309	4.554	ng		99
60) Diethylphthalate	15.304	149	115026	4.635	ng		99
61) 4-Chlorophenyl-phenyle...	15.521	204	59168	4.568	ng		97
62) 4-Nitroaniline	15.574	138	14161m	6.429	ng		
63) Azobenzene	15.815	77	116322	4.279	ng		99
66) n-Nitrosodiphenylamine	15.739	169	99177	4.647	ng		98
67) 4-Bromophenyl-phenylether	16.421	248	34235	4.550	ng		98
68) Hexachlorobenzene	16.527	284	40224	4.808	ng		97
69) Atrazine	16.698	200	25865	4.615	ng		99
70) Pentachlorophenol	16.886	266	22574	3.896	ng		93
71) Phenanthrene	17.274	178	185419	4.863	ng		99
72) Anthracene	17.362	178	168325	4.464	ng		100
73) Carbazole	17.651	167	149337	4.375	ng		100
74) Di-n-butylphthalate	18.204	149	152958	3.966	ng		100
75) Fluoranthene	19.298	202	190529	4.448	ng		99
77) Benzidine	19.515	184	32378m	3.914	ng		
78) Pyrene	19.662	202	202285	4.788	ng		99
80) Butylbenzylphthalate	20.568	149	58165	3.770	ng		98
81) Benzo(a)anthracene	21.415	228	189315	4.622	ng		98
82) 3,3'-Dichlorobenzidine	21.362	252	52850	3.955	ng		98
83) Chrysene	21.468	228	191611	4.837	ng		99
84) Bis(2-ethylhexyl)phtha...	21.345	149	77165	5.522	ng		99
87) Indeno(1,2,3-cd)pyrene	26.250	276	222324	4.495	ng		99
88) Benzo(b)fluoranthene	23.086	252	184538	4.618	ng		100
89) Benzo(k)fluoranthene	23.133	252	184377	4.510	ng		98
90) Benzo(a)pyrene	23.703	252	170517	4.441	ng		99
91) Dibenzo(a,h)anthracene	26.274	278	181789	4.407	ng		99
92) Benzo(g,h,i)perylene	27.009	276	189302	4.690	ng		98

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

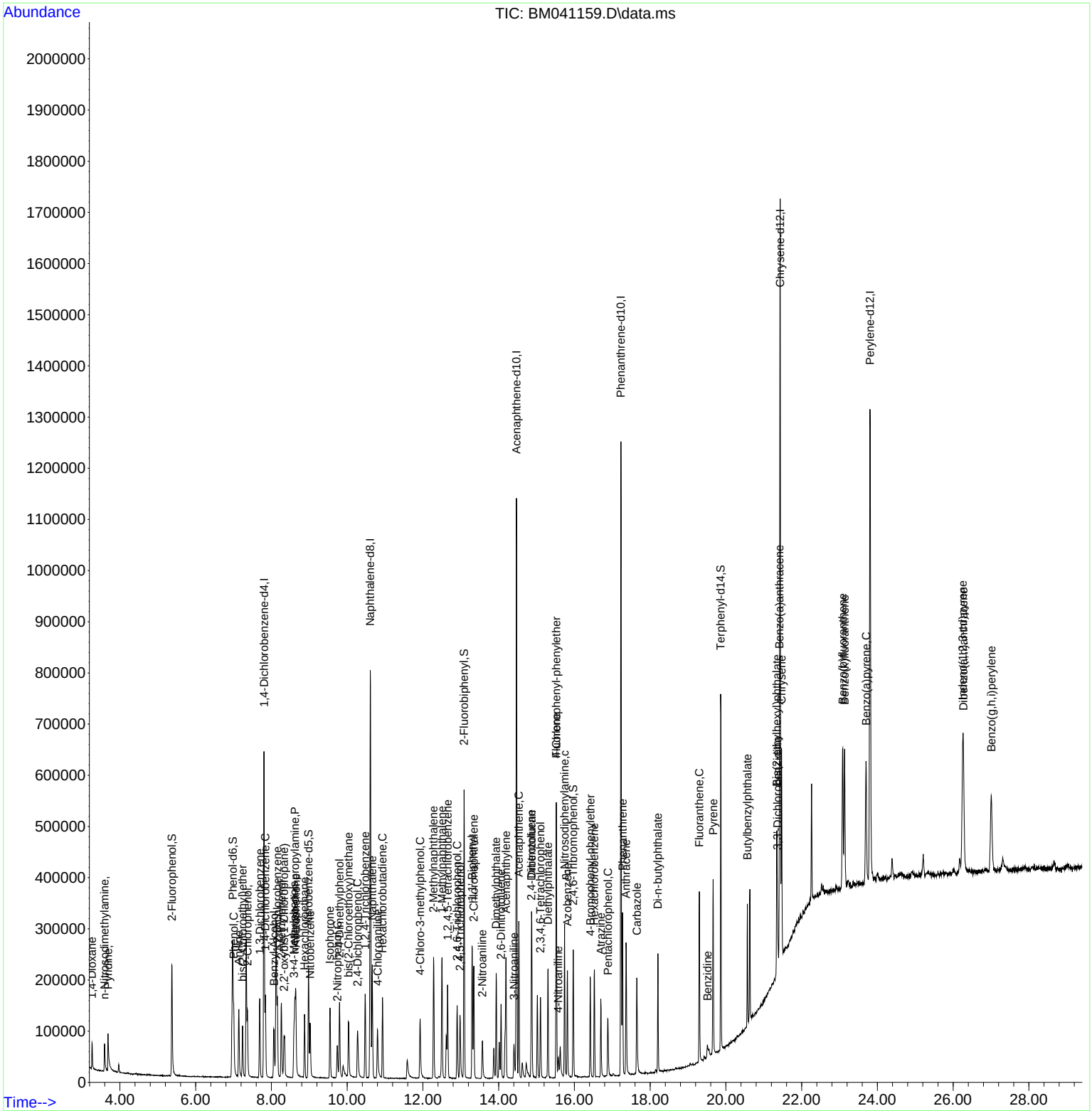
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM072823\
Data File : BM041159.D
Acq On : 28 Jul 2023 10:51
Operator : MA/JU
Sample : SSTDICC005
Misc :
ALS Vial : 3 Sample Multiplier: 1

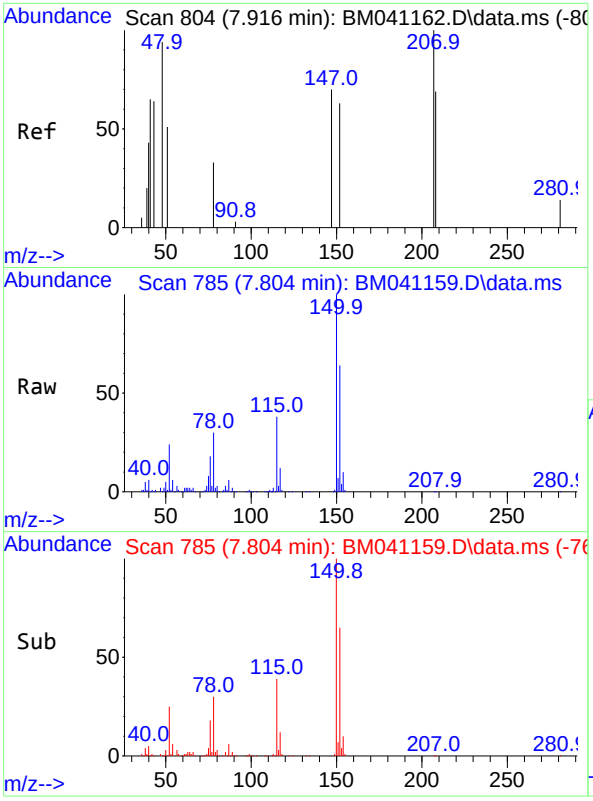
Quant Time: Jul 28 23:59:42 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 28 23:54:24 2023
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

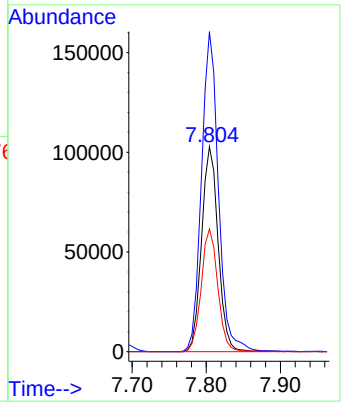




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.804 min Scan# 7
Delta R.T. 0.000 min
Lab File: BM041159.D
Acq: 28 Jul 2023 10:51

Tgt Ion:152 Resp: 15958

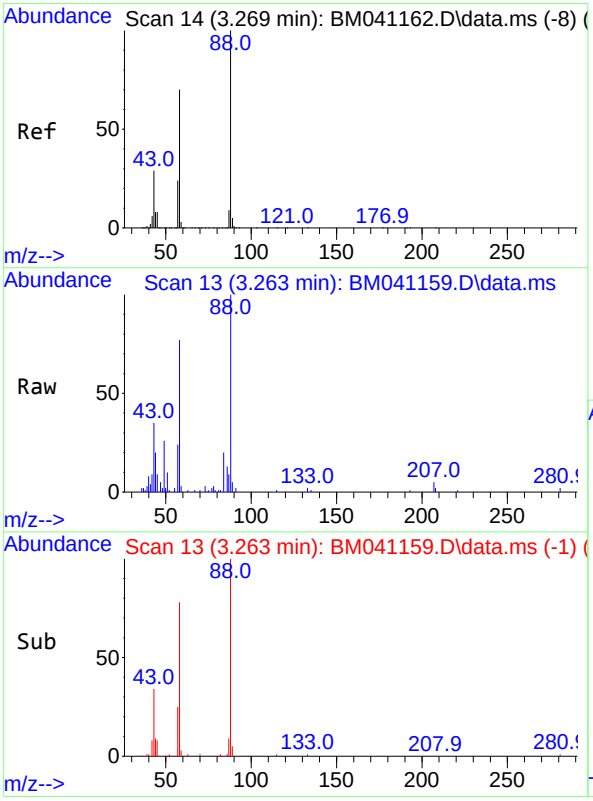
Ion	Ratio	Lower	Upper
152	100		
150	156.1	125.5	188.3
115	59.8	48.0	72.0



Instrument :
BNA_M
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

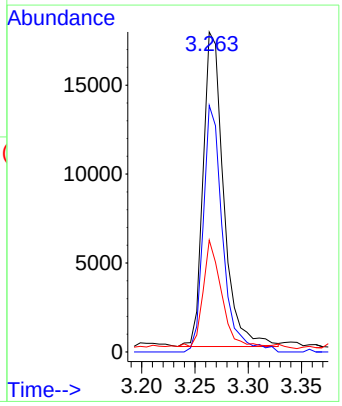
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

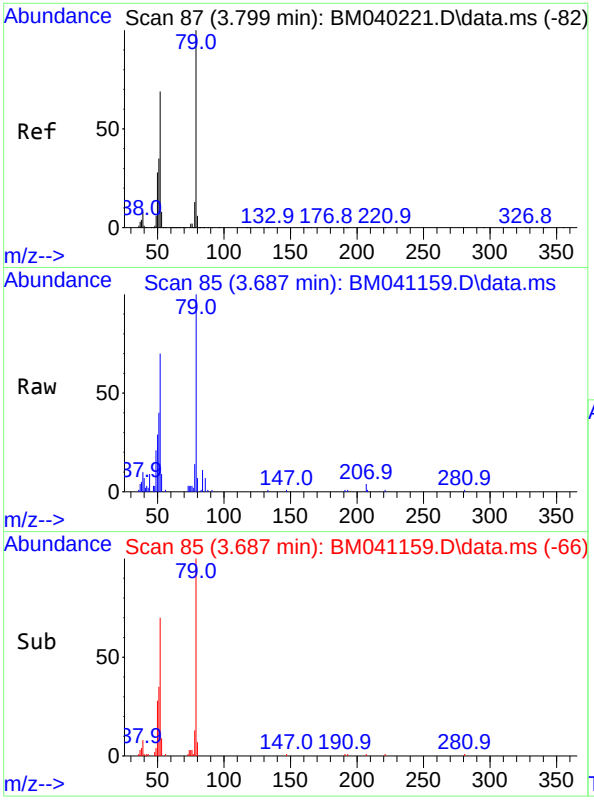


#2
1,4-Dioxane
Concen: 5.219 ng
RT: 3.263 min Scan# 13
Delta R.T. -0.006 min
Lab File: BM041159.D
Acq: 28 Jul 2023 10:51

Tgt Ion: 88 Resp: 23838

Ion	Ratio	Lower	Upper
88	100		
58	73.6	58.2	87.4
43	29.7	24.4	36.6

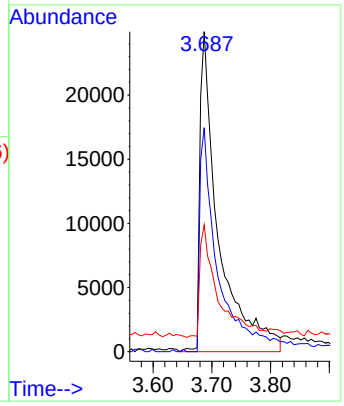




#3
Pyridine
Concen: 4.571 ng
RT: 3.687 min Scan# 8
Delta R.T. 0.012 min
Lab File: BM041159.D
Acq: 28 Jul 2023 10:51

Tgt Ion: 79 Resp: 5472

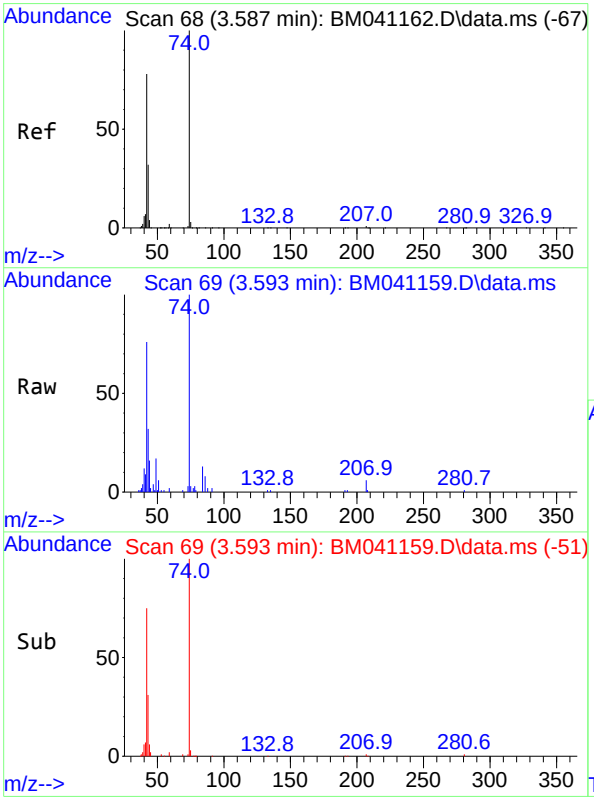
Ion	Ratio	Lower	Upper
79	100		
52	70.0	52.1	78.1
51	39.7	27.5	41.3



Instrument :
BNA_M
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

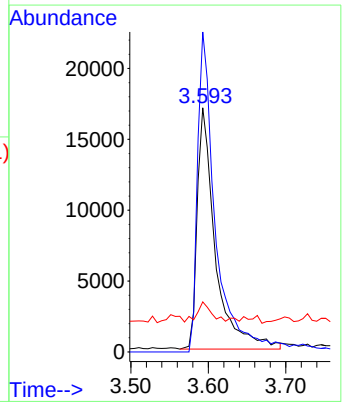
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

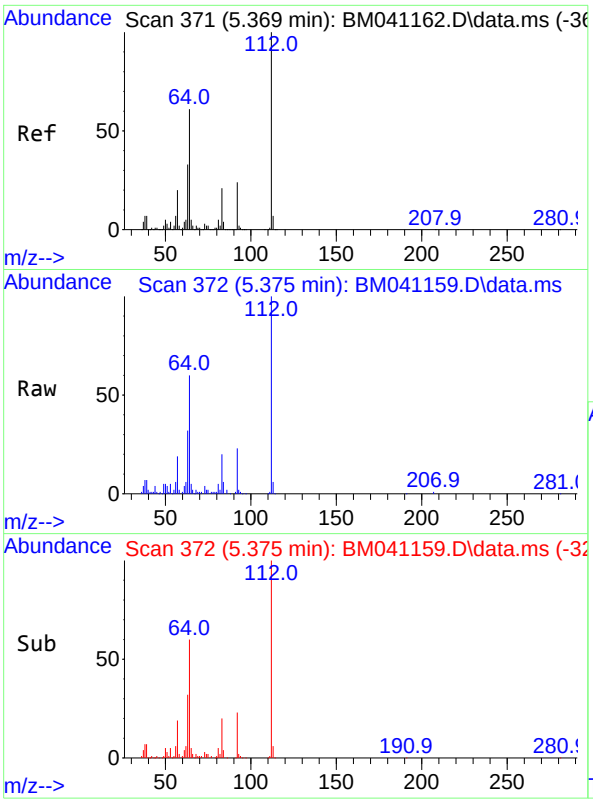


#4
n-Nitrosodimethylamine
Concen: 4.998 ng
RT: 3.593 min Scan# 69
Delta R.T. 0.006 min
Lab File: BM041159.D
Acq: 28 Jul 2023 10:51

Tgt Ion: 42 Resp: 27764

Ion	Ratio	Lower	Upper
42	100		
74	131.1	100.8	151.2
44	20.5	5.0	7.4#

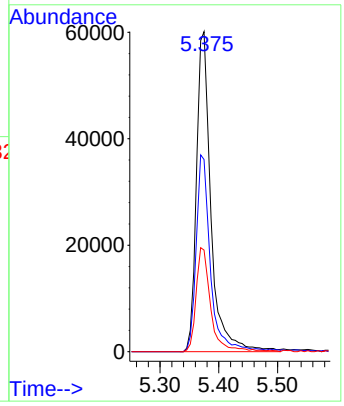




#5
2-Fluorophenol
Concen: 9.670 ng
RT: 5.375 min Scan# 3
Delta R.T. 0.006 min
Lab File: BM041159.D
Acq: 28 Jul 2023 10:51

Tgt Ion:112 Resp: 10325

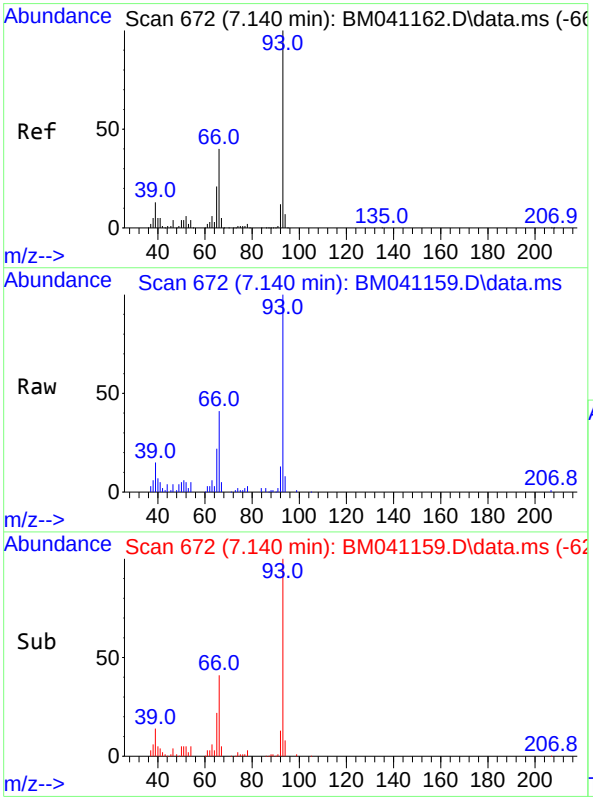
Ion	Ratio	Lower	Upper
112	100		
64	60.0	48.5	72.7
63	31.8	26.5	39.7



Instrument :
BNA_M
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

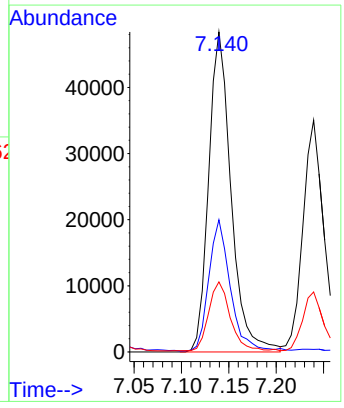
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

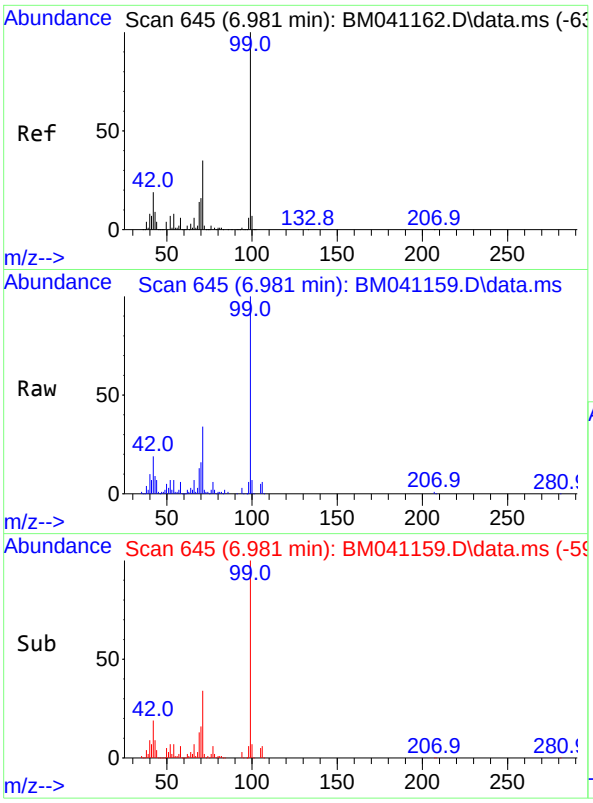


#6
Aniline
Concen: 4.913 ng
RT: 7.140 min Scan# 672
Delta R.T. -0.000 min
Lab File: BM041159.D
Acq: 28 Jul 2023 10:51

Tgt Ion: 93 Resp: 79576

Ion	Ratio	Lower	Upper
93	100		
66	41.3	32.0	48.0
65	21.9	16.6	24.8

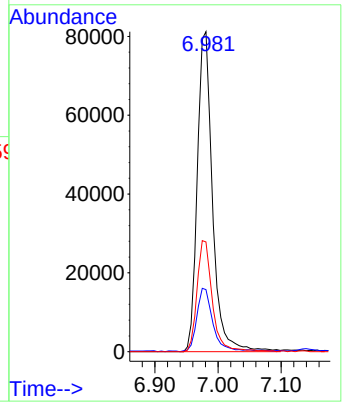




#7
Phenol-d6
Concen: 9.836 ng
RT: 6.981 min Scan# 64
Delta R.T. -0.000 min
Lab File: BM041159.D
Acq: 28 Jul 2023 10:51

Tgt Ion: 99 Resp: 13612

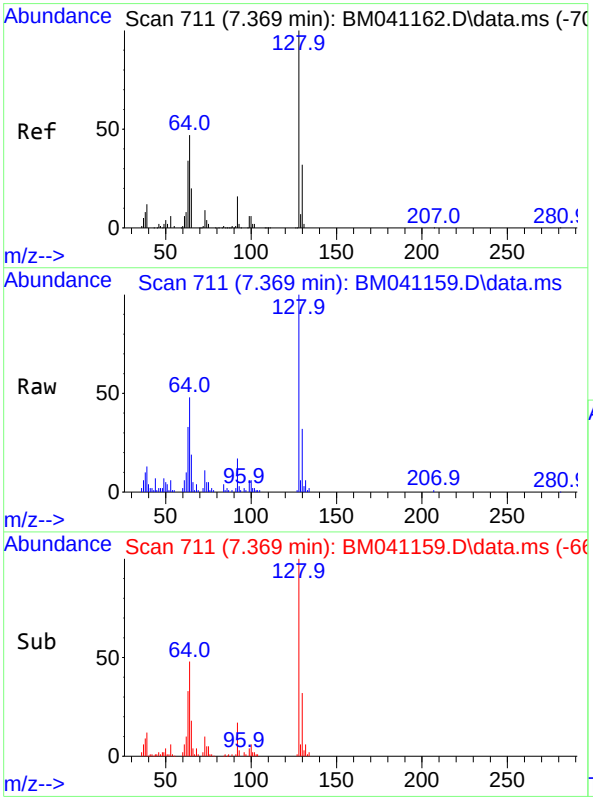
Ion	Ratio	Lower	Upper
99	100		
42	19.4	15.4	23.0
71	34.3	28.2	42.4



Instrument :
BNA_M
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

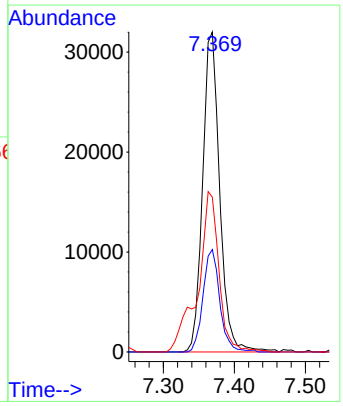
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

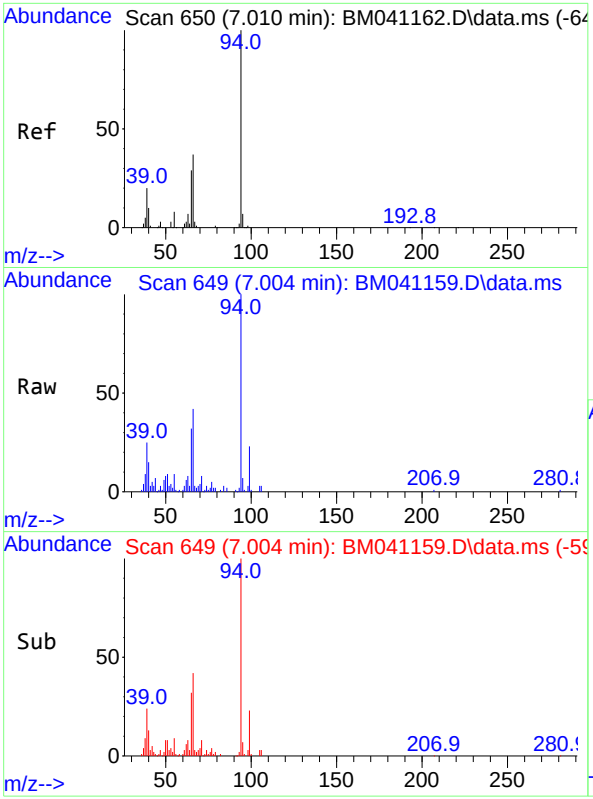


#8
2-Chlorophenol
Concen: 5.138 ng
RT: 7.369 min Scan# 711
Delta R.T. -0.000 min
Lab File: BM041159.D
Acq: 28 Jul 2023 10:51

Tgt Ion:128 Resp: 53552

Ion	Ratio	Lower	Upper
128	100		
130	32.0	12.3	52.3
64	48.4	29.3	69.3

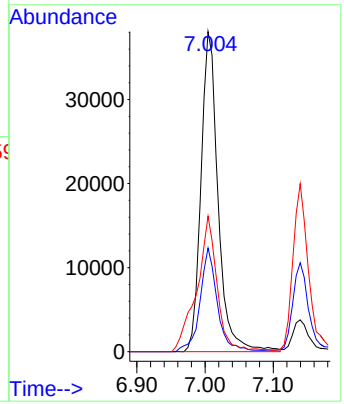




#10
Phenol
Concen: 4.967 ng
RT: 7.004 min Scan# 64
Delta R.T. -0.006 min
Lab File: BM041159.D
Acq: 28 Jul 2023 10:51

Tgt Ion: 94 Resp: 6639

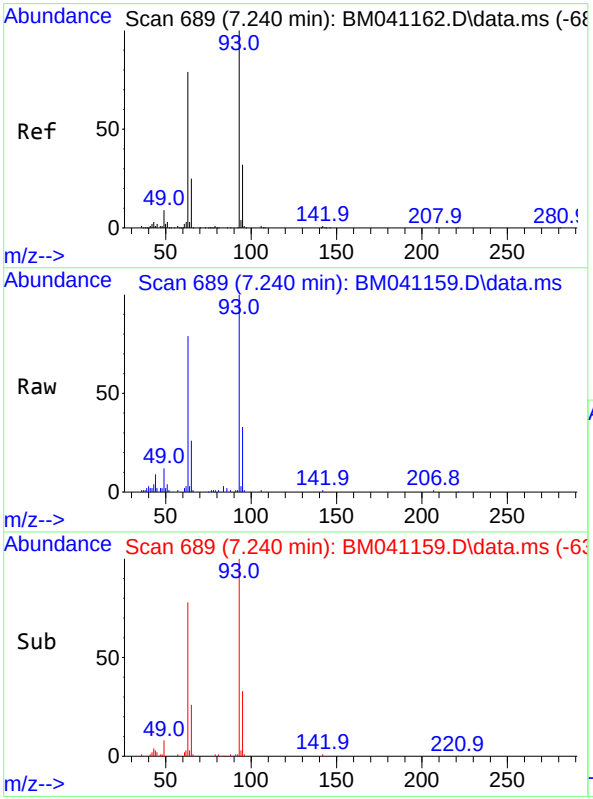
Ion	Ratio	Lower	Upper
94	100		
65	32.4	9.5	49.5
66	42.4	18.0	58.0



Instrument :
BNA_M
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

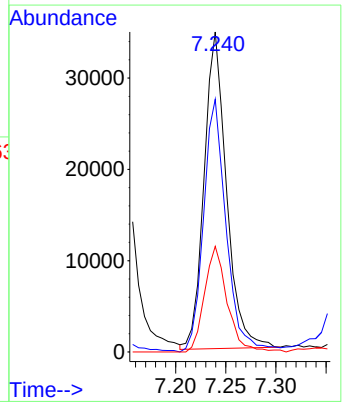
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

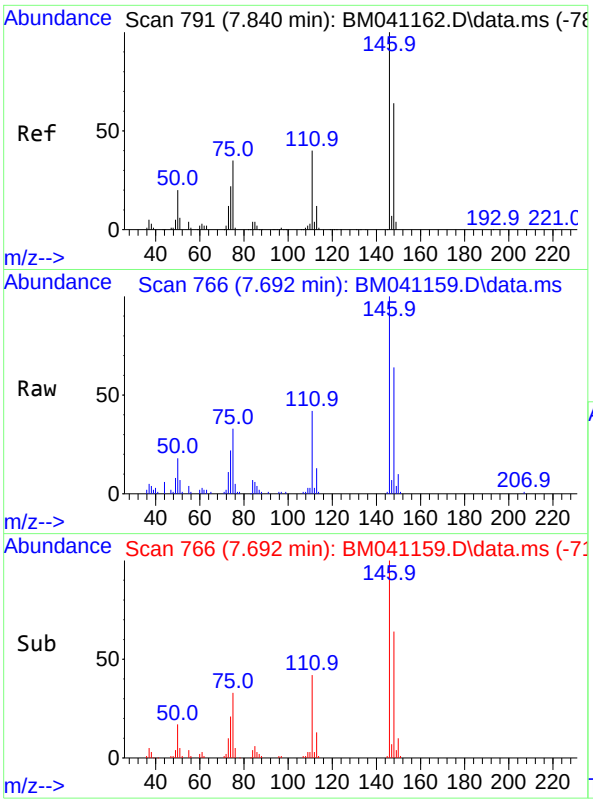


#11
bis(2-Chloroethyl)ether
Concen: 4.991 ng
RT: 7.240 min Scan# 689
Delta R.T. -0.000 min
Lab File: BM041159.D
Acq: 28 Jul 2023 10:51

Tgt Ion: 93 Resp: 54007

Ion	Ratio	Lower	Upper
93	100		
63	78.9	58.8	98.8
95	33.0	11.8	51.8

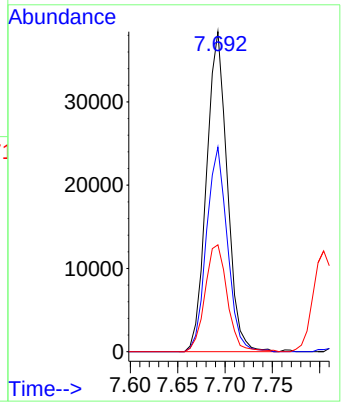




#12
1,3-Dichlorobenzene
Concen: 5.142 ng
RT: 7.692 min Scan# 7
Delta R.T. -0.000 min
Lab File: BM041159.D
Acq: 28 Jul 2023 10:51

Tgt Ion:146 Resp: 5834

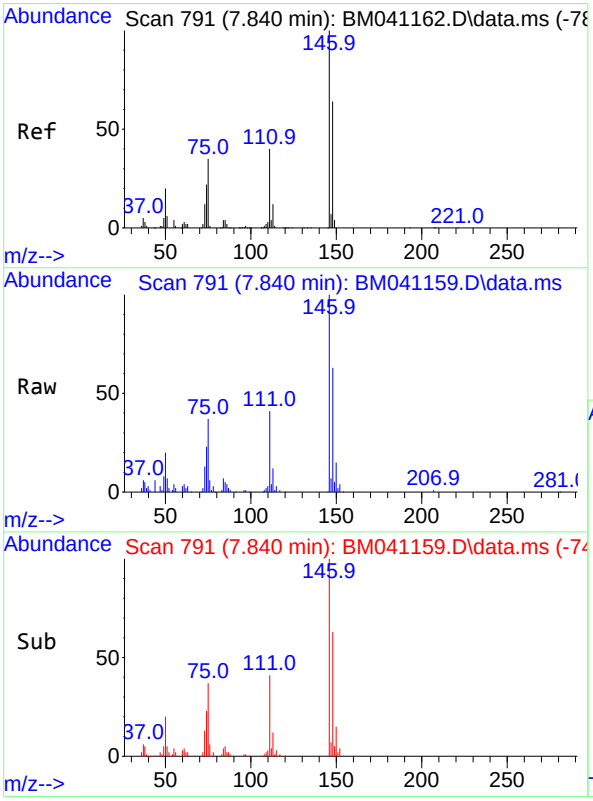
Ion	Ratio	Lower	Upper
146	100		
148	63.9	51.9	77.9
75	33.4	28.3	42.5



Instrument :
BNA_M
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

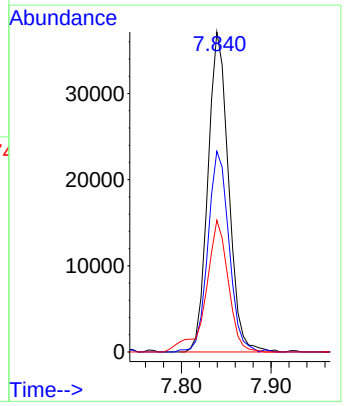
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

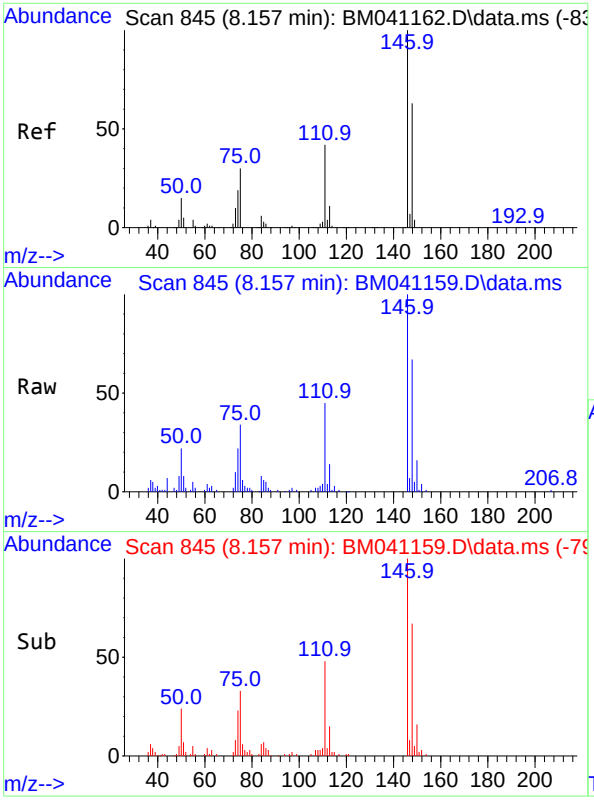


#13
1,4-Dichlorobenzene
Concen: 5.201 ng
RT: 7.840 min Scan# 791
Delta R.T. -0.000 min
Lab File: BM041159.D
Acq: 28 Jul 2023 10:51

Tgt Ion:146 Resp: 59313

Ion	Ratio	Lower	Upper
146	100		
148	62.7	51.4	77.0
111	41.2	32.4	48.6

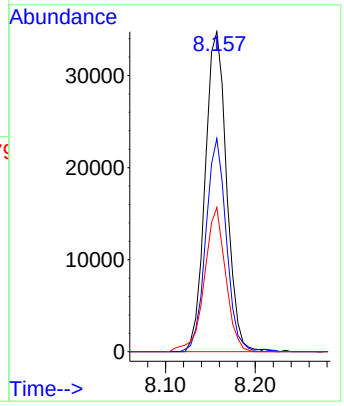




#14
1,2-Dichlorobenzene
Concen: 5.270 ng
RT: 8.157 min Scan# 84
Delta R.T. -0.000 min
Lab File: BM041159.D
Acq: 28 Jul 2023 10:51

Tgt Ion:146 Resp: 5762

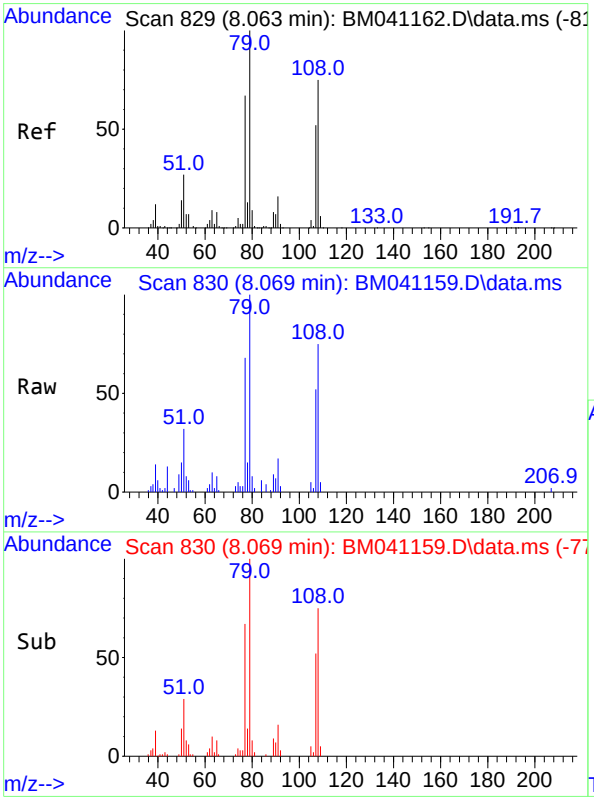
Ion	Ratio	Lower	Upper
146	100		
148	66.6	50.9	76.3
111	45.0	33.8	50.6



Instrument :
BNA_M
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

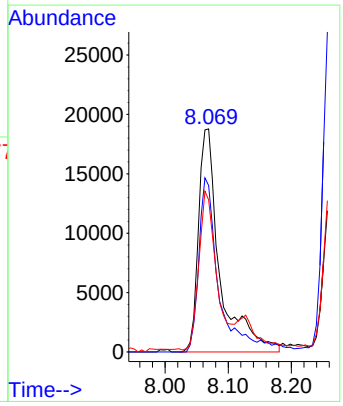
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

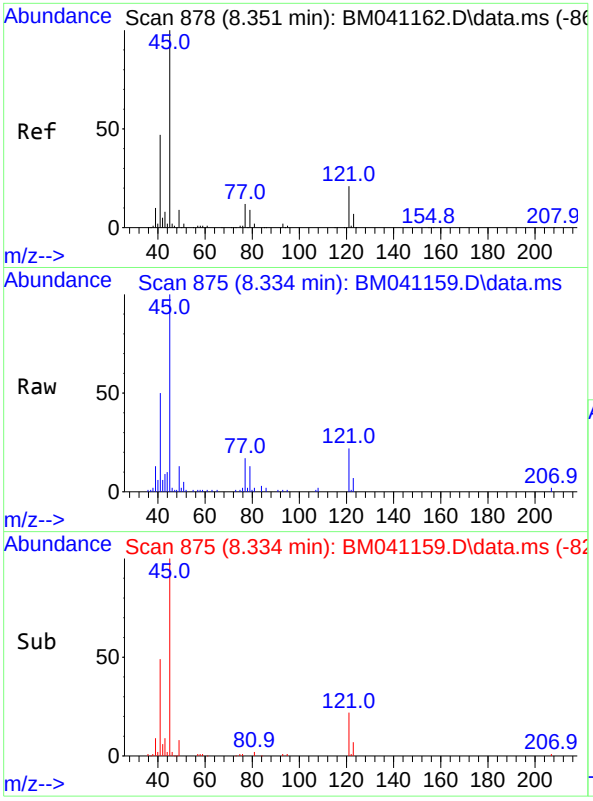


#15
Benzyl Alcohol
Concen: 5.091 ng
RT: 8.069 min Scan# 830
Delta R.T. 0.006 min
Lab File: BM041159.D
Acq: 28 Jul 2023 10:51

Tgt Ion: 79 Resp: 44502

Ion	Ratio	Lower	Upper
79	100		
108	74.6	59.8	89.8
77	68.2	53.8	80.6





#16
2,2'-oxybis(1-Chloropropane)
Concen: 5.283 ng m
RT: 8.334 min Scan# 8
Delta R.T. -0.018 min
Lab File: BM041159.D
Acq: 28 Jul 2023 10:51

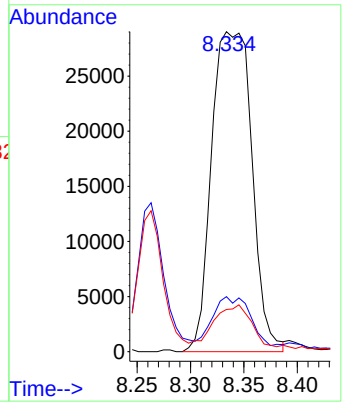
Tgt Ion: 45 Resp: 7617

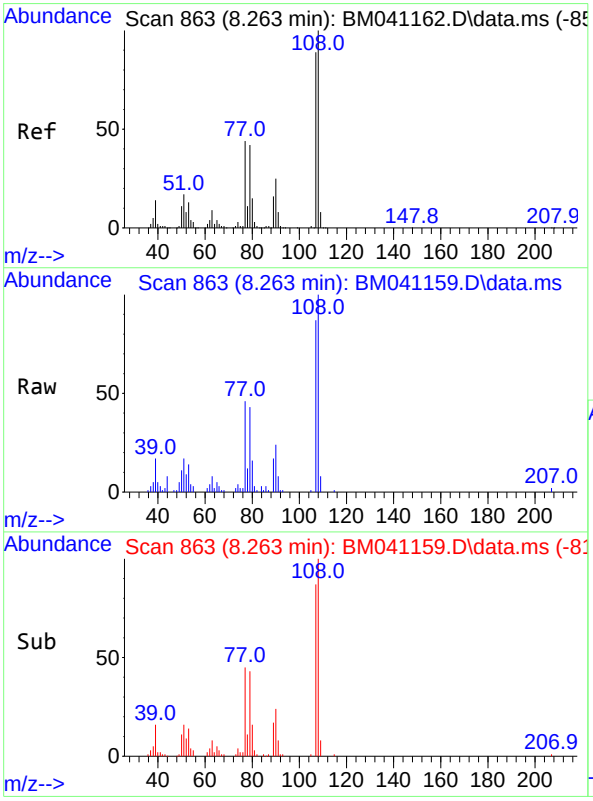
Ion	Ratio	Lower	Upper
45	100		
77	17.2	0.0	34.5
79	13.2	0.0	32.1

Instrument :
BNA_M
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

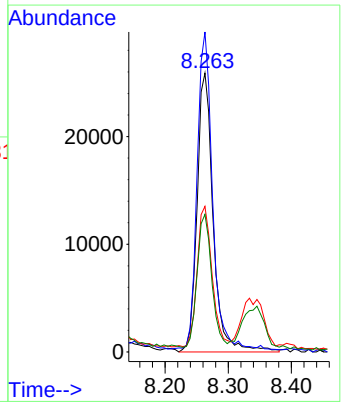


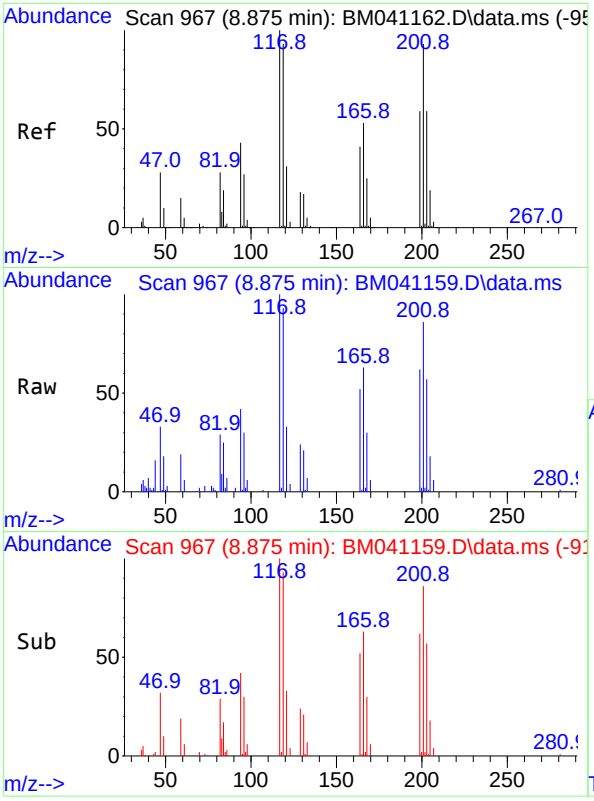


#17
2-Methylphenol
Concen: 5.031 ng
RT: 8.263 min Scan# 863
Delta R.T. -0.000 min
Lab File: BM041159.D
Acq: 28 Jul 2023 10:51

Tgt Ion:107 Resp: 45948

Ion	Ratio	Lower	Upper
107	100		
108	114.8	89.9	134.9
77	52.2	39.8	59.8
79	49.4	37.7	56.5

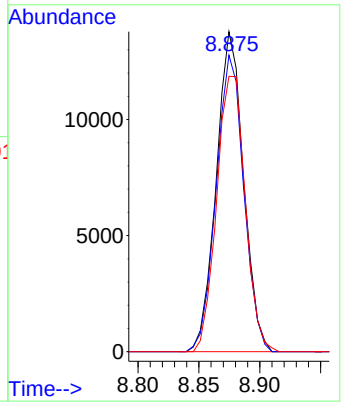




#18
Hexachloroethane
Concen: 5.055 ng
RT: 8.875 min Scan# 9
Delta R.T. -0.000 min
Lab File: BM041159.D
Acq: 28 Jul 2023 10:51

Tgt Ion:117 Resp: 2146

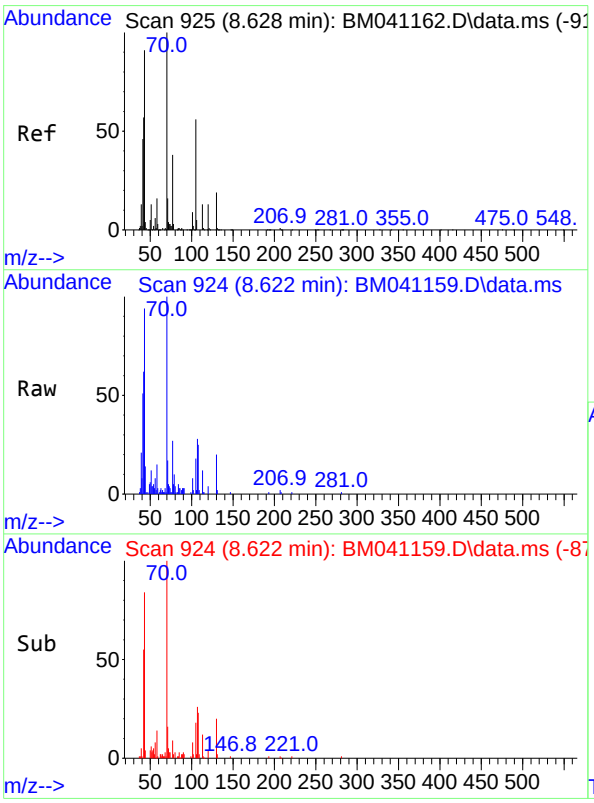
Ion	Ratio	Lower	Upper
117	100		
119	92.6	74.2	111.4
201	86.0	74.5	111.7



Instrument :
BNA_M
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

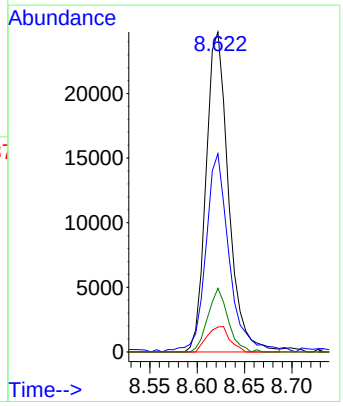
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

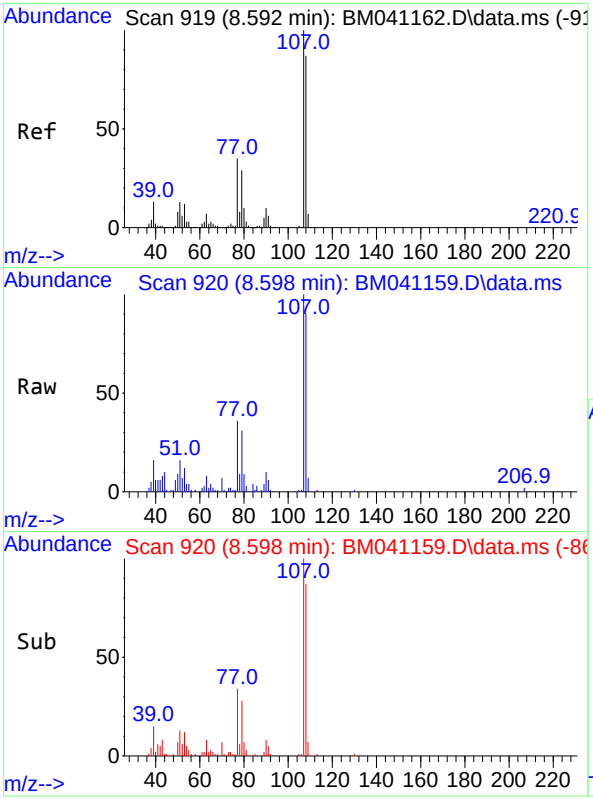


#19
n-Nitroso-di-n-propylamine
Concen: 4.860 ng
RT: 8.622 min Scan# 924
Delta R.T. -0.006 min
Lab File: BM041159.D
Acq: 28 Jul 2023 10:51

Tgt Ion: 70 Resp: 40856

Ion	Ratio	Lower	Upper
70	100		
42	62.0	45.8	68.8
101	7.8	7.4	11.0
130	19.9	15.2	22.8

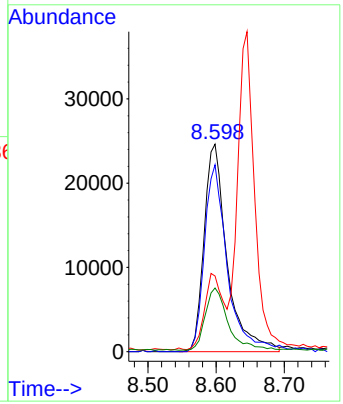




#20
3+4-Methylphenols
Concen: 4.747 ng
RT: 8.598 min Scan# 9
Delta R.T. 0.006 min
Lab File: BM041159.D
Acq: 28 Jul 2023 10:51

Tgt Ion:107 Resp: 5796

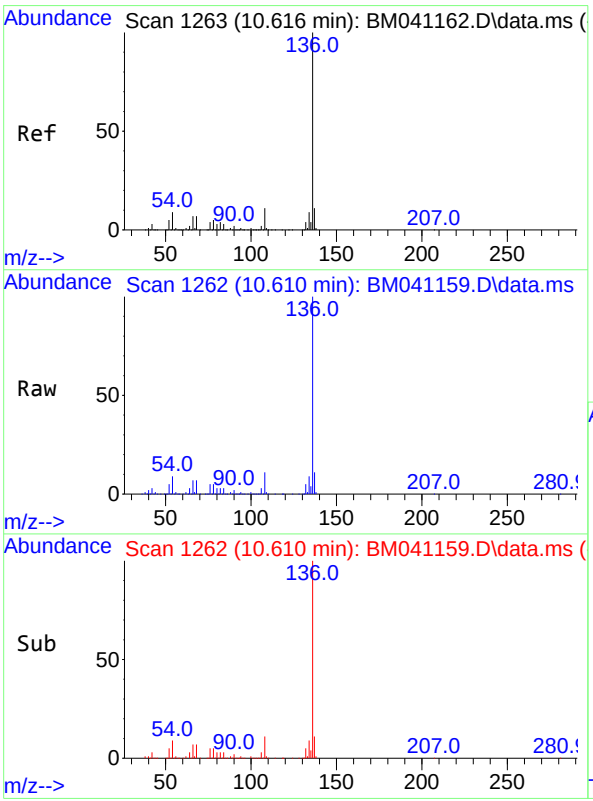
Ion	Ratio	Lower	Upper
107	100		
108	90.1	67.2	107.2
77	36.5	15.4	55.4
79	30.7	9.2	49.2



Instrument :
BNA_M
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

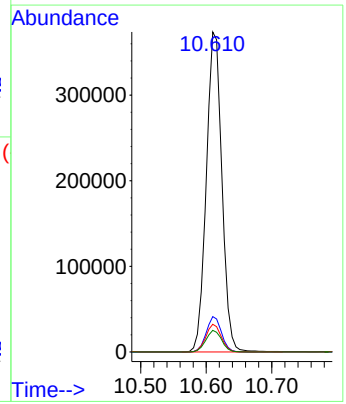
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

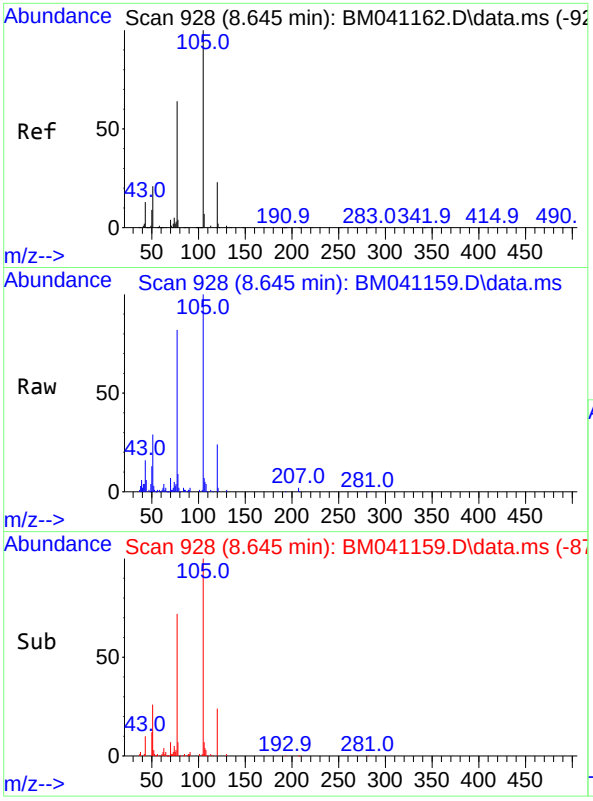


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.610 min Scan# 1262
Delta R.T. -0.006 min
Lab File: BM041159.D
Acq: 28 Jul 2023 10:51

Tgt Ion:136 Resp: 620057

Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.8	13.2
54	8.6	6.9	10.3
68	6.8	5.4	8.2

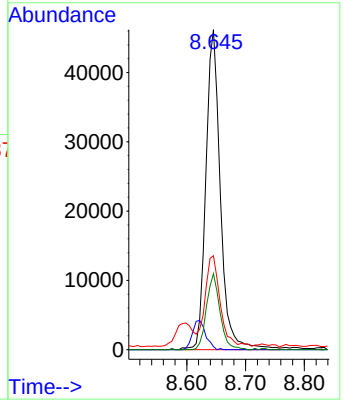




#22
Acetophenone
Concen: 4.824 ng
RT: 8.645 min Scan# 9
Delta R.T. -0.000 min
Lab File: BM041159.D
Acq: 28 Jul 2023 10:51

Tgt Ion:105 Resp: 7922

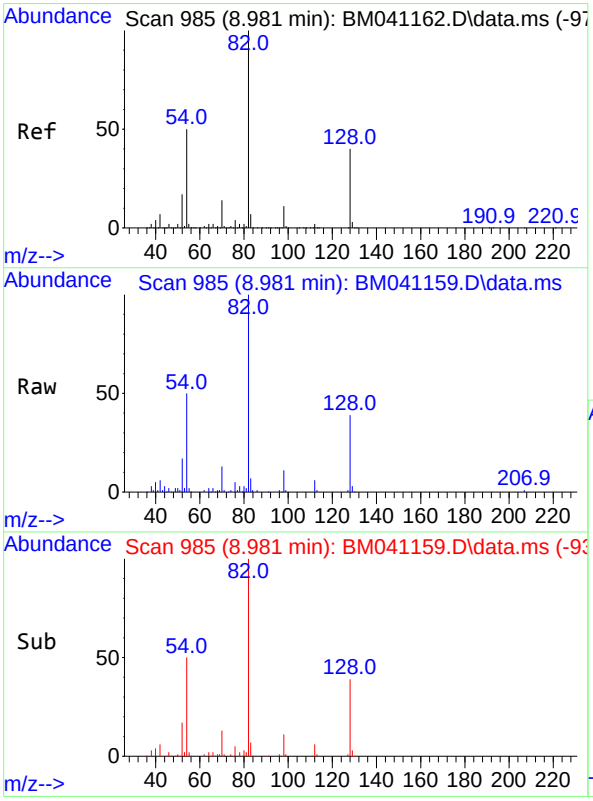
Ion	Ratio	Lower	Upper
105	100		
71	1.0	1.2	1.8
51	29.3	22.0	33.0
120	23.7	18.0	27.0



Instrument :
BNA_M
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

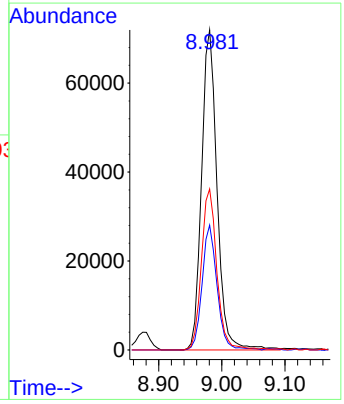
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

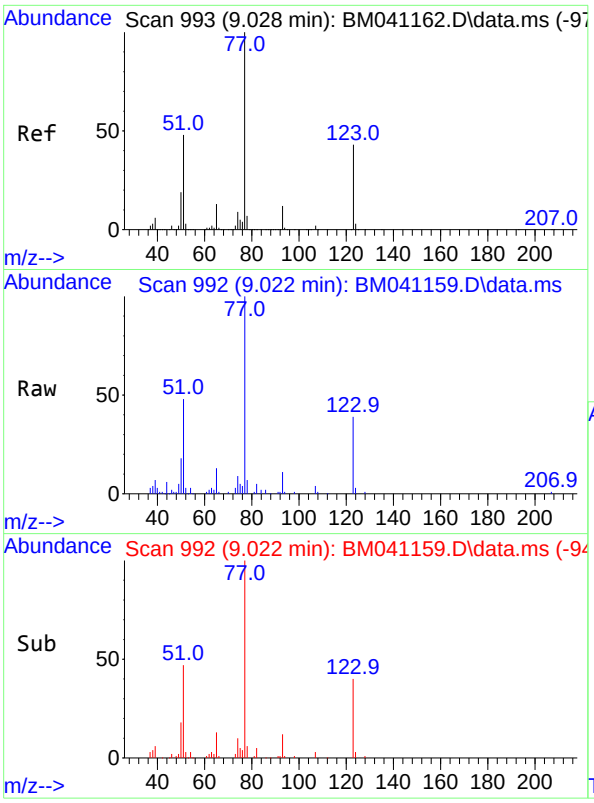


#23
Nitrobenzene-d5
Concen: 9.177 ng
RT: 8.981 min Scan# 985
Delta R.T. -0.000 min
Lab File: BM041159.D
Acq: 28 Jul 2023 10:51

Tgt Ion: 82 Resp: 122356

Ion	Ratio	Lower	Upper
82	100		
128	39.0	31.8	47.6
54	50.3	40.1	60.1

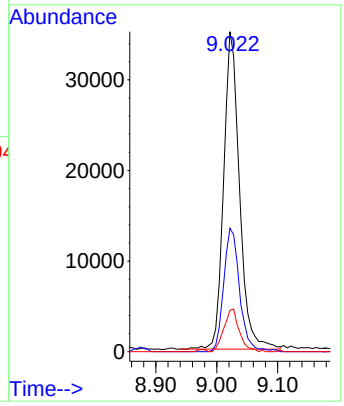




#24
Nitrobenzene
Concen: 4.698 ng
RT: 9.022 min Scan# 9
Delta R.T. -0.006 min
Lab File: BM041159.D
Acq: 28 Jul 2023 10:51

Tgt Ion: 77 Resp: 6335

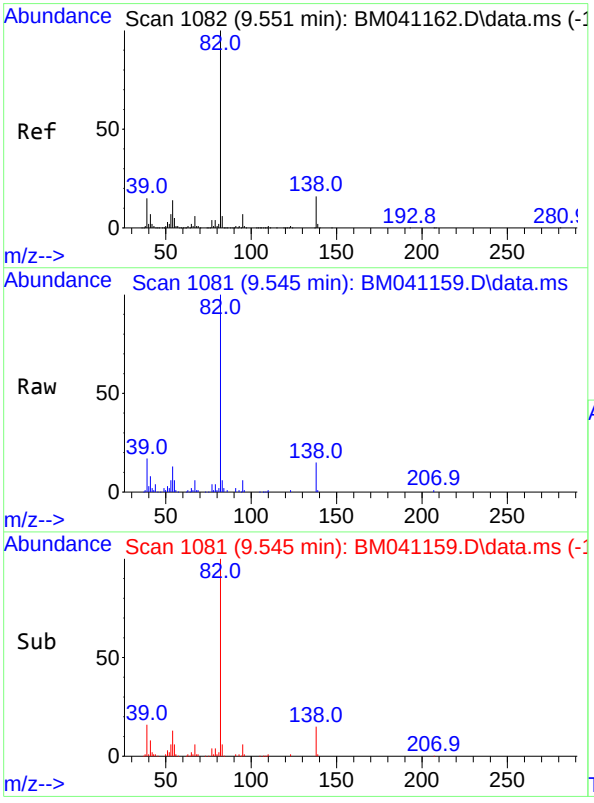
Ion	Ratio	Lower	Upper
77	100		
123	38.5	34.2	51.2
65	13.0	10.7	16.1



Instrument :
BNA_M
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

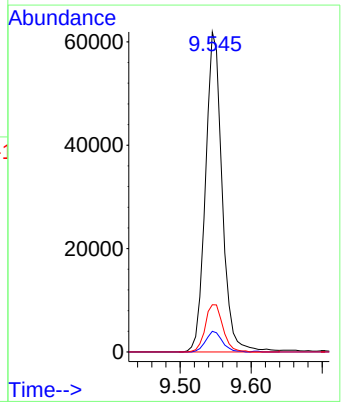
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

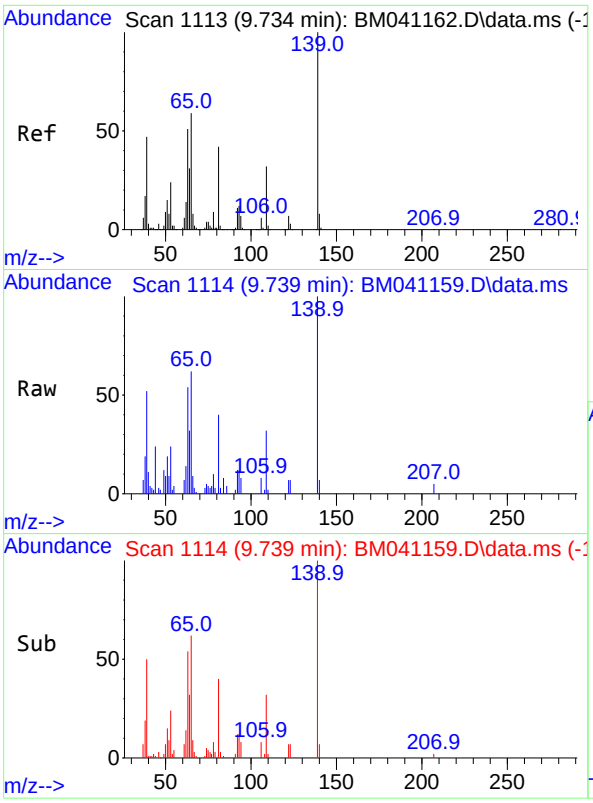


#25
Isophorone
Concen: 4.471 ng
RT: 9.545 min Scan# 1081
Delta R.T. -0.006 min
Lab File: BM041159.D
Acq: 28 Jul 2023 10:51

Tgt Ion: 82 Resp: 101205

Ion	Ratio	Lower	Upper
82	100		
95	6.5	5.3	7.9
138	14.7	12.8	19.2

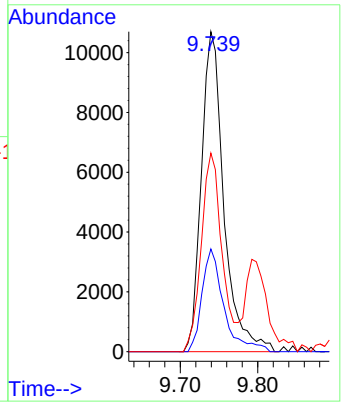




#26
2-Nitrophenol
Concen: 4.090 ng
RT: 9.739 min Scan# 11
Delta R.T. 0.006 min
Lab File: BM041159.D
Acq: 28 Jul 2023 10:51

Tgt Ion:139 Resp: 2156

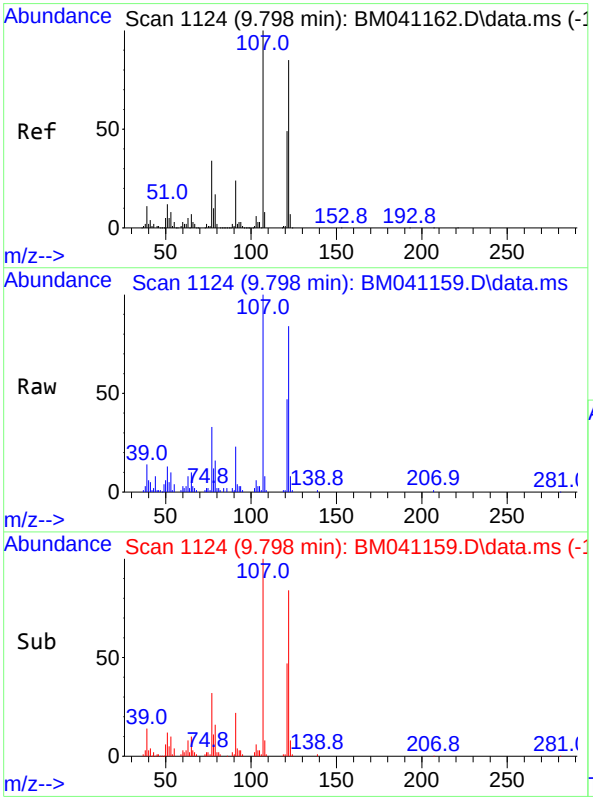
Ion	Ratio	Lower	Upper
139	100		
109	32.1	25.4	38.2
65	62.1	47.2	70.8



Instrument :
BNA_M
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

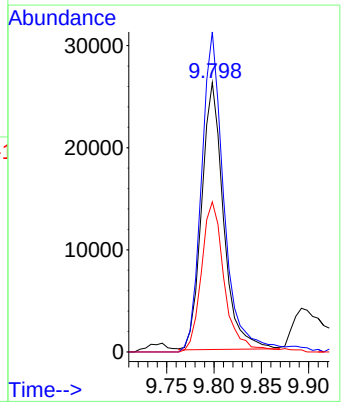
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

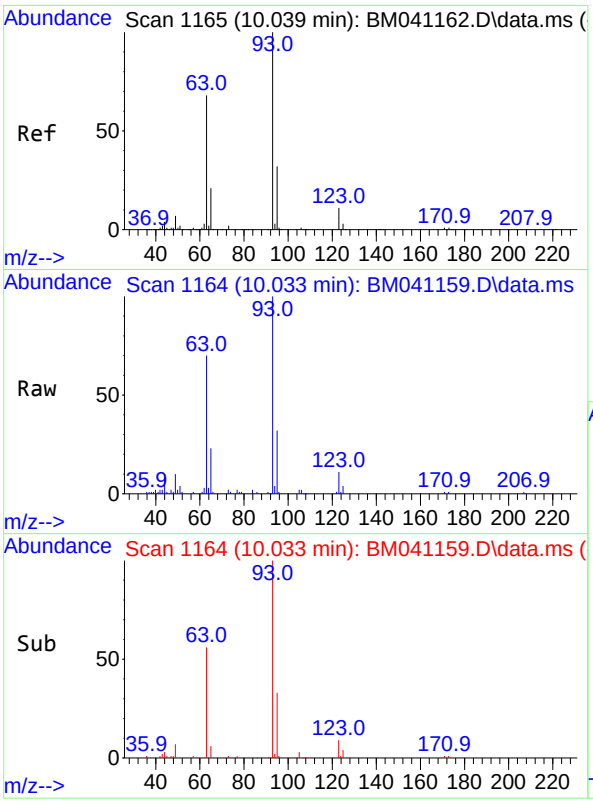


#27
2,4-Dimethylphenol
Concen: 4.525 ng
RT: 9.798 min Scan# 1124
Delta R.T. -0.000 min
Lab File: BM041159.D
Acq: 28 Jul 2023 10:51

Tgt Ion:122 Resp: 41974

Ion	Ratio	Lower	Upper
122	100		
107	118.7	94.3	141.5
121	55.7	45.8	68.8

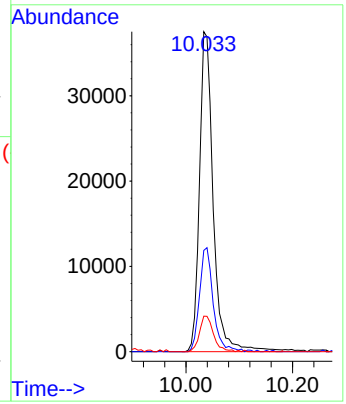




#28
bis(2-Chloroethoxy)methane
Concen: 4.737 ng
RT: 10.033 min Scan# 11
Delta R.T. -0.006 min
Lab File: BM041159.D
Acq: 28 Jul 2023 10:51

Tgt Ion: 93 Resp: 6715

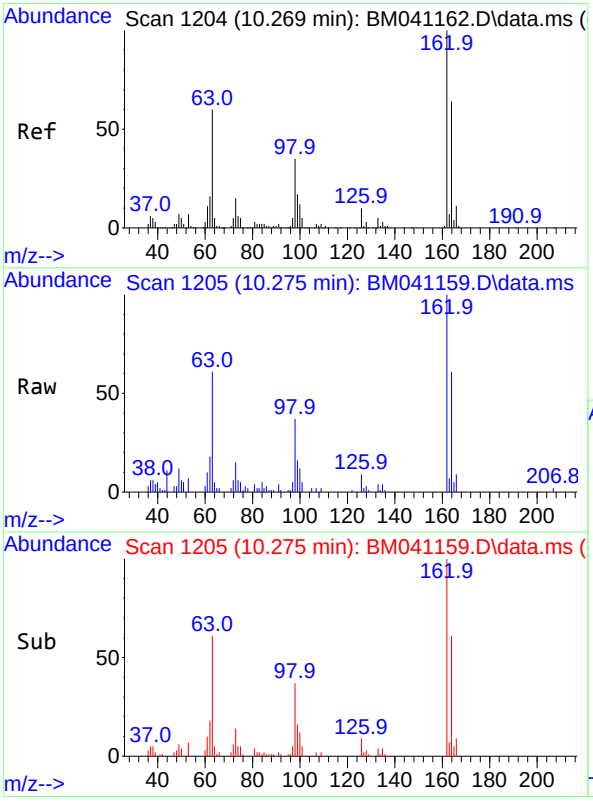
Ion	Ratio	Lower	Upper
93	100		
95	31.7	25.9	38.9
123	11.1	9.1	13.7



Instrument :
BNA_M
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

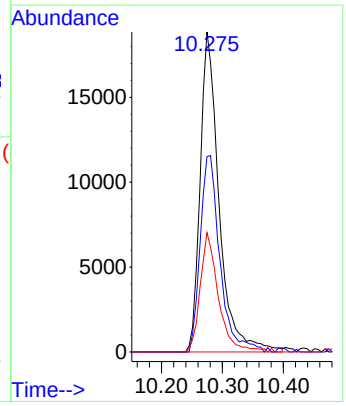
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

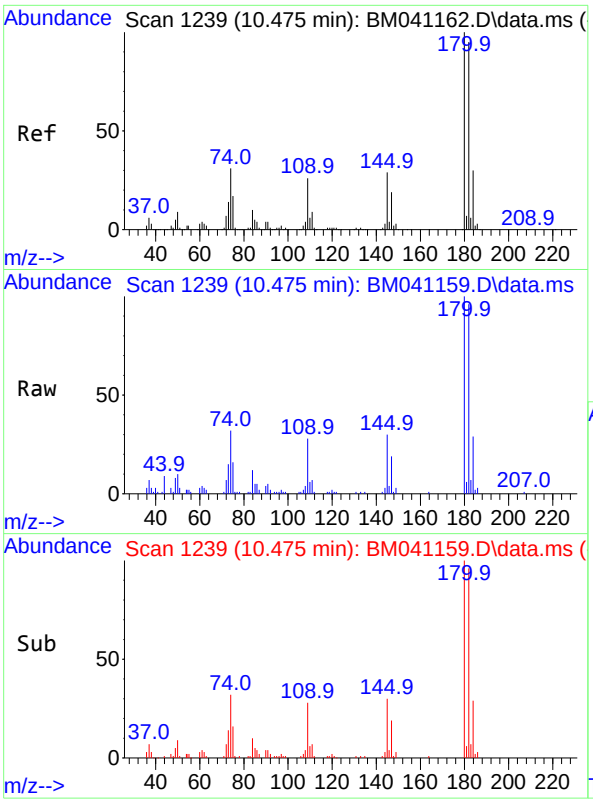


#29
2,4-Dichlorophenol
Concen: 4.341 ng
RT: 10.275 min Scan# 1205
Delta R.T. 0.006 min
Lab File: BM041159.D
Acq: 28 Jul 2023 10:51

Tgt Ion:162 Resp: 40609

Ion	Ratio	Lower	Upper
162	100		
164	61.0	44.3	84.3
98	37.3	15.1	55.1

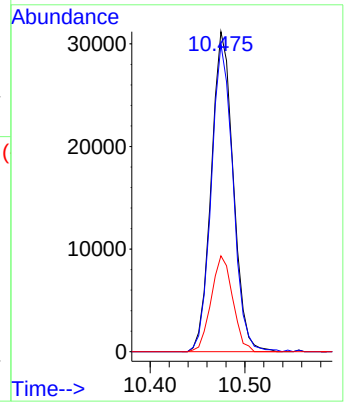




#30
1,2,4-Trichlorobenzene
Concen: 4.854 ng
RT: 10.475 min Scan# 1
Delta R.T. -0.000 min
Lab File: BM041159.D
Acq: 28 Jul 2023 10:51

Tgt Ion:180 Resp: 5016

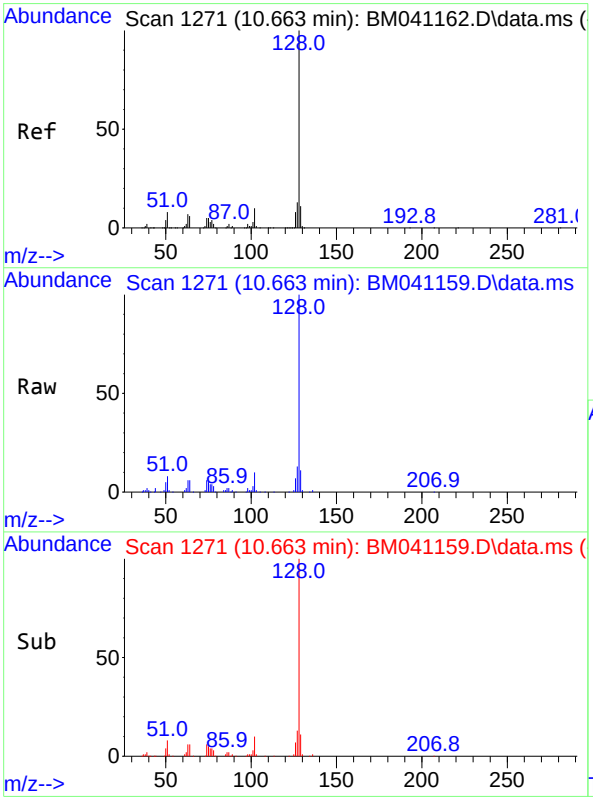
Ion	Ratio	Lower	Upper
180	100		
182	96.1	75.9	113.9
145	29.9	23.6	35.4



Instrument :
BNA_M
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

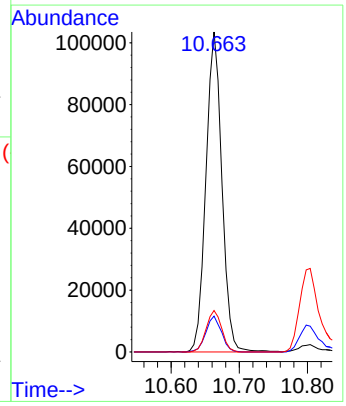
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

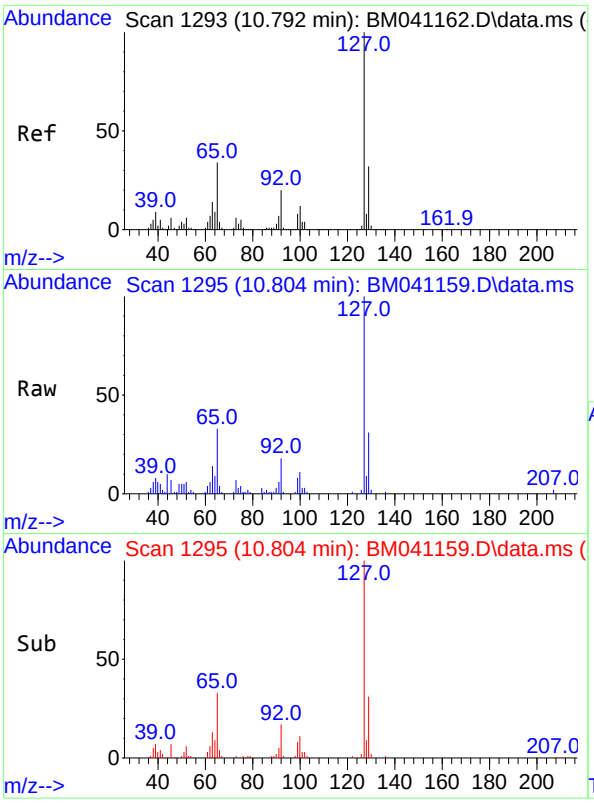


#31
Naphthalene
Concen: 5.015 ng
RT: 10.663 min Scan# 1271
Delta R.T. -0.000 min
Lab File: BM041159.D
Acq: 28 Jul 2023 10:51

Tgt Ion:128 Resp: 168740

Ion	Ratio	Lower	Upper
128	100		
129	11.2	9.0	13.4
127	13.0	10.5	15.7

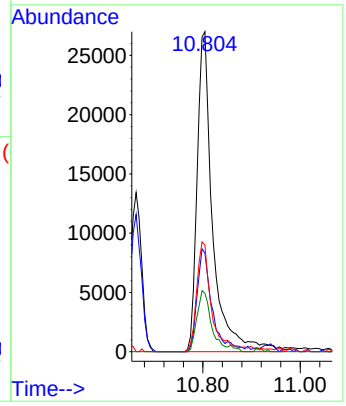




#33
4-Chloroaniline
Concen: 4.483 ng
RT: 10.804 min Scan# 1
Delta R.T. 0.012 min
Lab File: BM041159.D
Acq: 28 Jul 2023 10:51

Tgt Ion:127 Resp: 6028

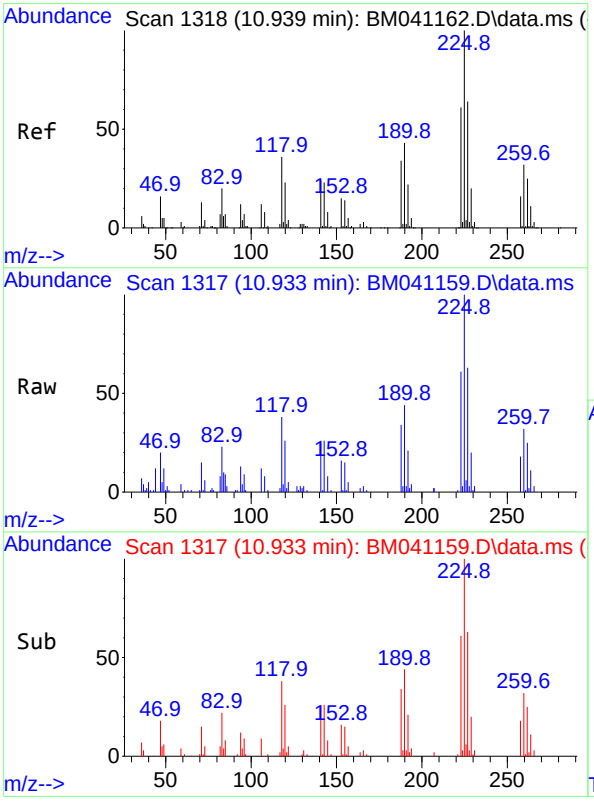
Ion	Ratio	Lower	Upper
127	100		
129	30.8	25.9	38.9
65	33.3	26.9	40.3
92	18.3	15.8	23.6



Instrument :
BNA_M
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

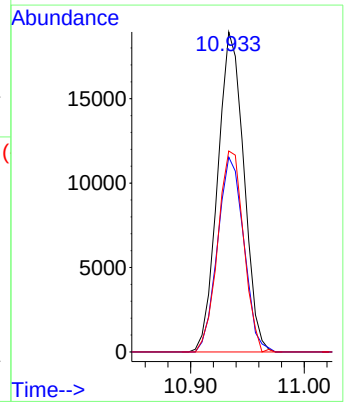
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

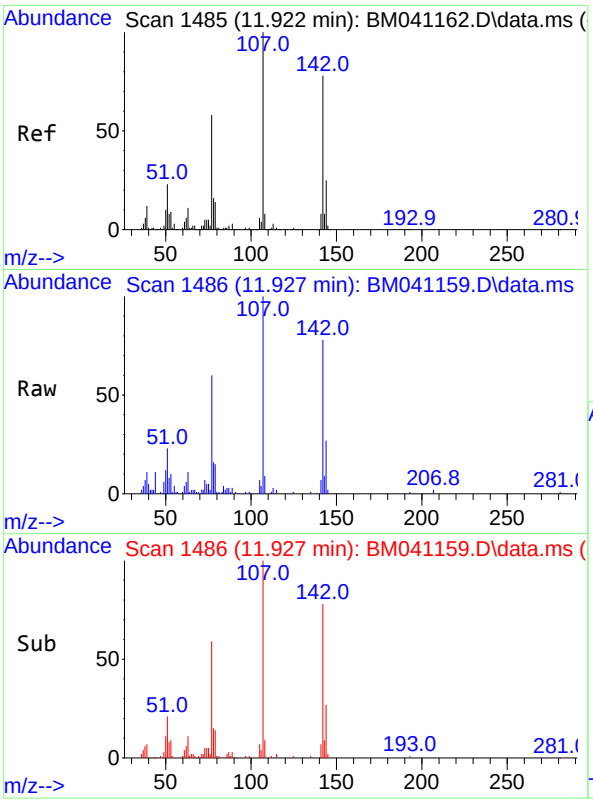


#34
Hexachlorobutadiene
Concen: 4.880 ng
RT: 10.933 min Scan# 1317
Delta R.T. -0.006 min
Lab File: BM041159.D
Acq: 28 Jul 2023 10:51

Tgt Ion:225 Resp: 30331

Ion	Ratio	Lower	Upper
225	100		
223	63.7	49.0	73.4
227	66.0	50.8	76.2

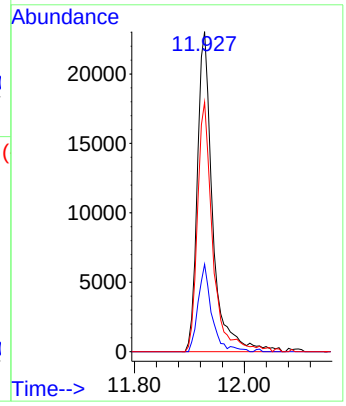




#36
4-Chloro-3-methylphenol
Concen: 4.524 ng
RT: 11.927 min Scan# 14
Delta R.T. 0.006 min
Lab File: BM041159.D
Acq: 28 Jul 2023 10:51

Tgt Ion:107 Resp: 4453

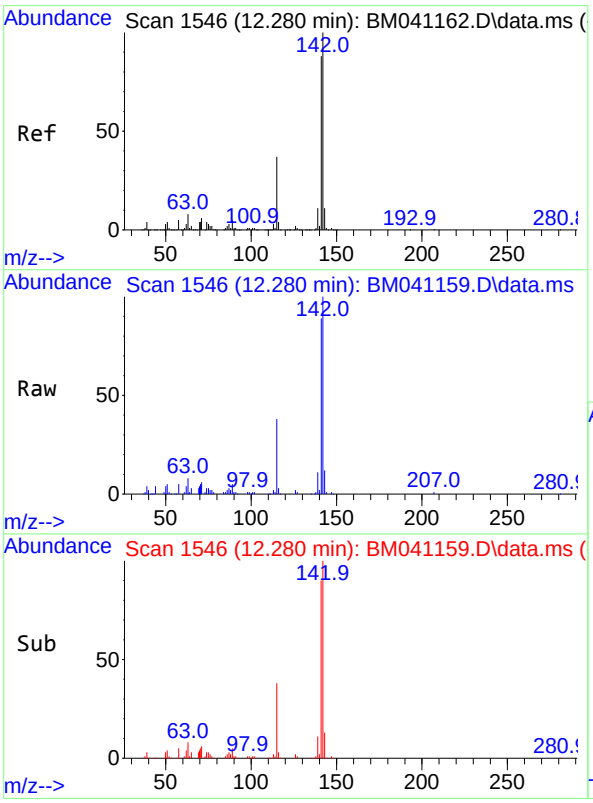
Ion	Ratio	Lower	Upper
107	100		
144	27.3	20.1	30.1
142	78.0	62.2	93.4



Instrument :
BNA_M
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

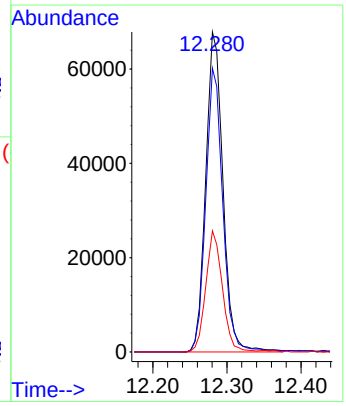
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

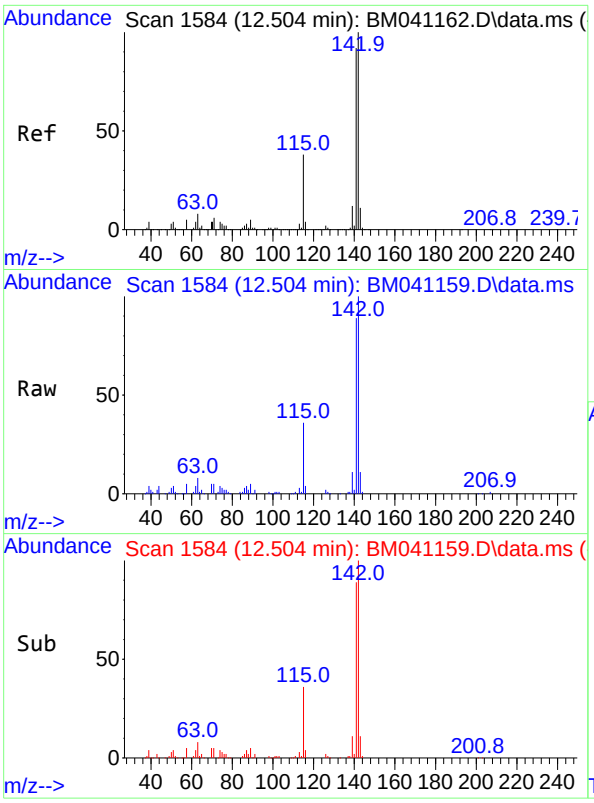


#37
2-Methylnaphthalene
Concen: 4.833 ng
RT: 12.280 min Scan# 1546
Delta R.T. -0.000 min
Lab File: BM041159.D
Acq: 28 Jul 2023 10:51

Tgt Ion:142 Resp: 109645

Ion	Ratio	Lower	Upper
142	100		
141	88.6	70.7	106.1
115	37.9	29.3	43.9

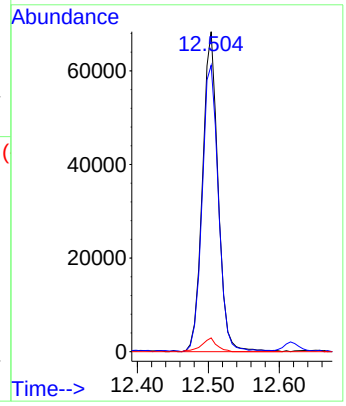




#38
1-Methylnaphthalene
Concen: 4.913 ng
RT: 12.504 min Scan# 1
Delta R.T. -0.000 min
Lab File: BM041159.D
Acq: 28 Jul 2023 10:51

Tgt Ion:142 Resp: 10431

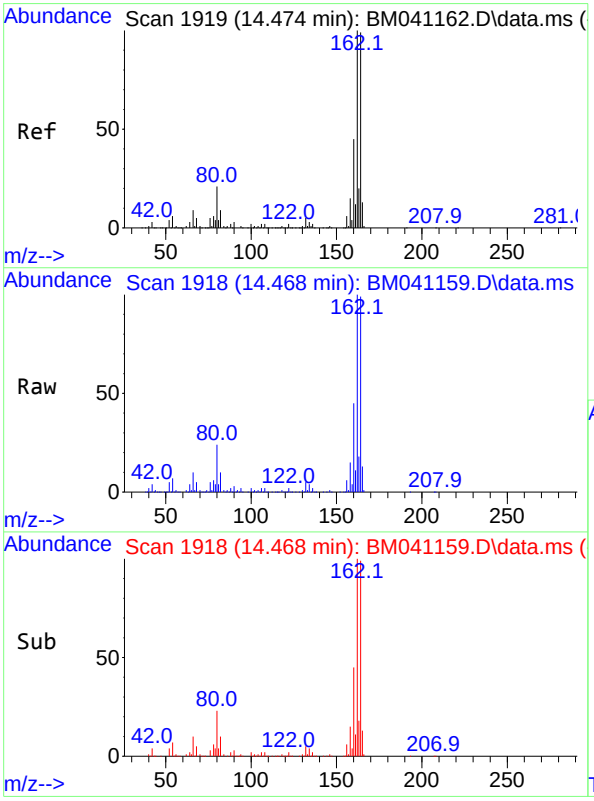
Ion	Ratio	Lower	Upper
142	100		
141	89.5	73.4	110.2
116	4.3	3.2	4.8



Instrument :
BNA_M
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

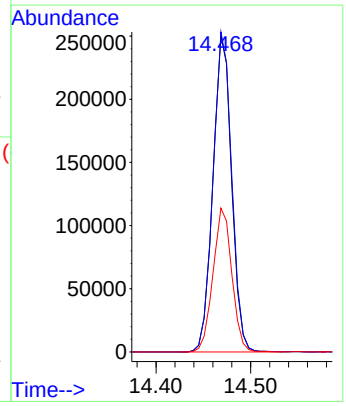
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

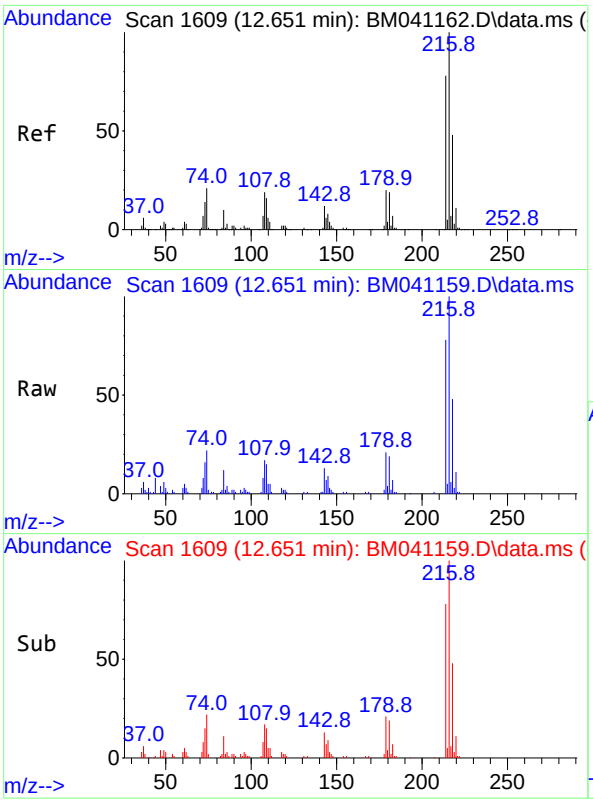


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.468 min Scan# 1918
Delta R.T. -0.006 min
Lab File: BM041159.D
Acq: 28 Jul 2023 10:51

Tgt Ion:164 Resp: 341170

Ion	Ratio	Lower	Upper
164	100		
162	101.2	80.4	120.6
160	45.5	36.2	54.2

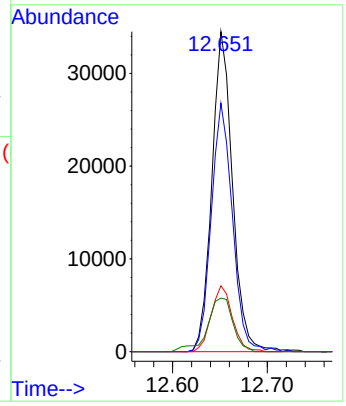




#40
1,2,4,5-Tetrachlorobenzene
Concen: 4.702 ng
RT: 12.651 min Scan# 1
Delta R.T. -0.000 min
Lab File: BM041159.D
Acq: 28 Jul 2023 10:51

Tgt Ion:216 Resp: 5209

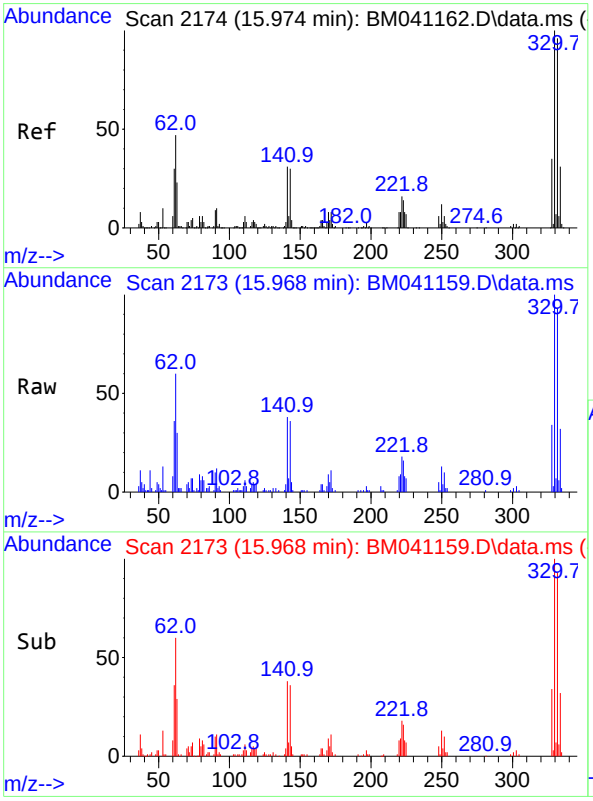
Ion	Ratio	Lower	Upper
216	100		
214	79.9	63.2	94.8
179	21.1	16.2	24.2
108	20.7	17.0	25.4



Instrument :
BNA_M
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

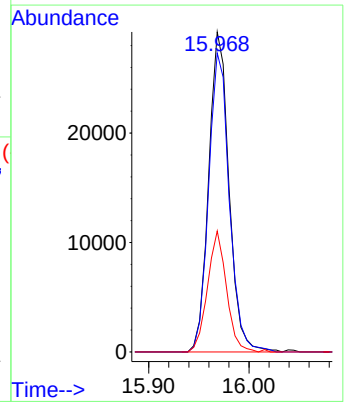
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

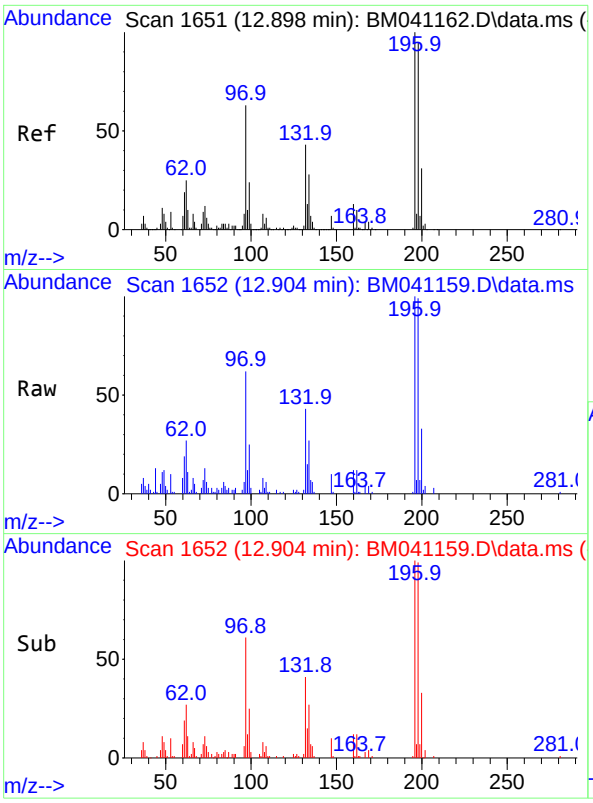


#42
2,4,6-Tribromophenol
Concen: 8.533 ng
RT: 15.968 min Scan# 2173
Delta R.T. -0.006 min
Lab File: BM041159.D
Acq: 28 Jul 2023 10:51

Tgt Ion:330 Resp: 41177

Ion	Ratio	Lower	Upper
330	100		
332	95.1	77.7	116.5
141	35.4	28.3	42.5

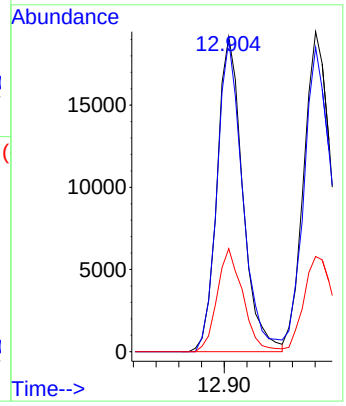




#43
2,4,6-Trichlorophenol
Concen: 4.236 ng
RT: 12.904 min Scan# 1
Delta R.T. 0.006 min
Lab File: BM041159.D
Acq: 28 Jul 2023 10:51

Tgt Ion:196 Resp: 3008

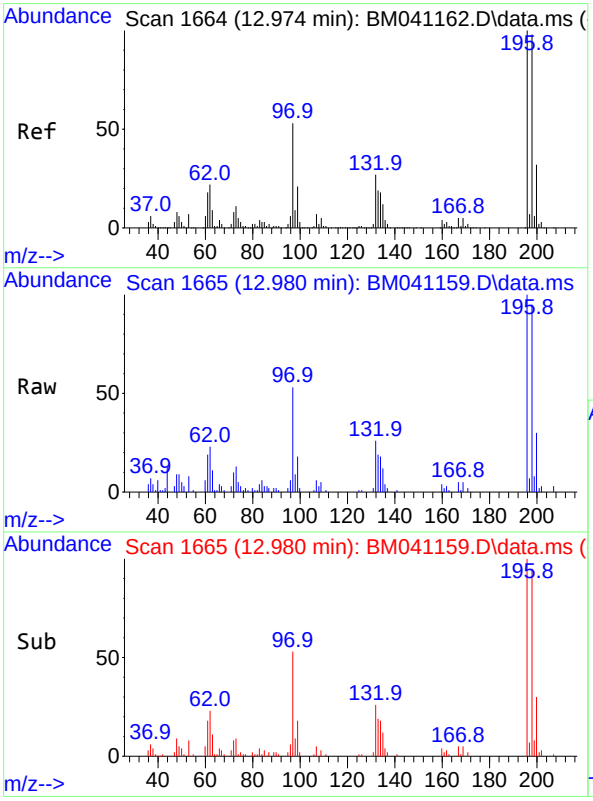
Ion	Ratio	Lower	Upper
196	100		
198	98.9	76.2	114.4
200	32.7	24.6	36.8



Instrument :
BNA_M
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

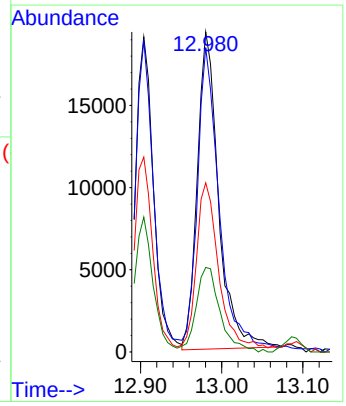
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

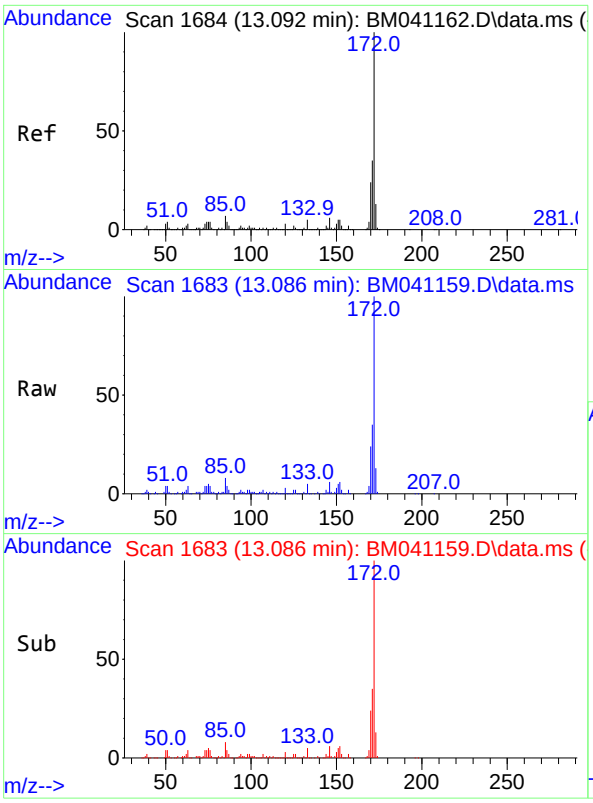


#44
2,4,5-Trichlorophenol
Concen: 4.300 ng
RT: 12.980 min Scan# 1665
Delta R.T. 0.006 min
Lab File: BM041159.D
Acq: 28 Jul 2023 10:51

Tgt Ion:196 Resp: 35335

Ion	Ratio	Lower	Upper
196	100		
198	95.1	78.2	117.4
97	52.8	42.7	64.1
132	26.4	21.6	32.4

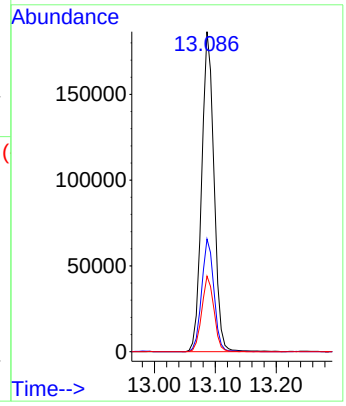




#45
2-Fluorobiphenyl
Concen: 9.705 ng
RT: 13.086 min Scan# 1(
Delta R.T. -0.006 min
Lab File: BM041159.D
Acq: 28 Jul 2023 10:51

Tgt Ion:172 Resp: 26211(

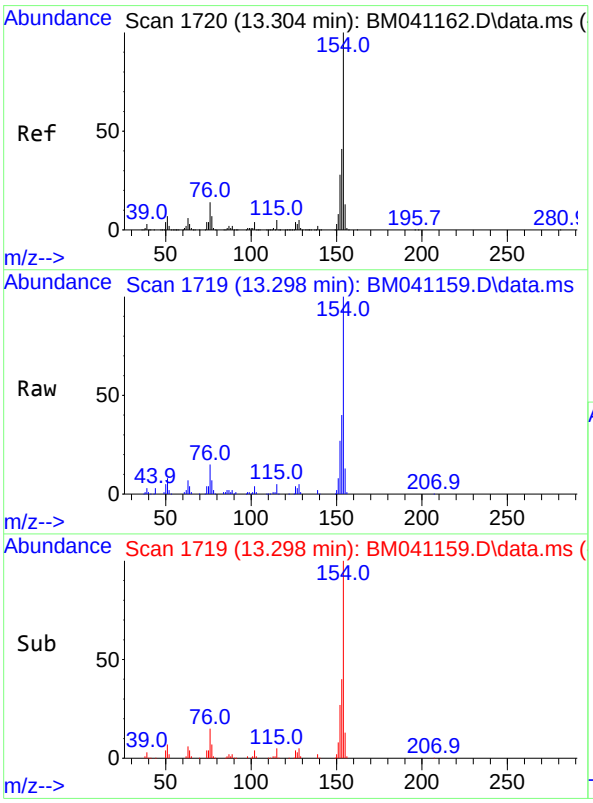
Ion	Ratio	Lower	Upper
172	100		
171	35.2	28.1	42.1
170	23.6	18.9	28.3



Instrument :
BNA_M
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

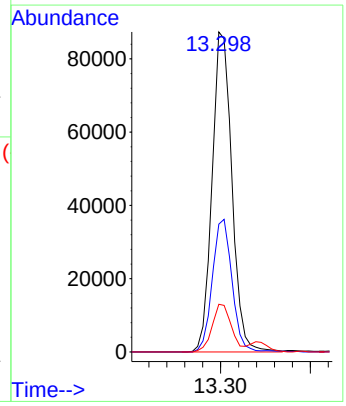
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

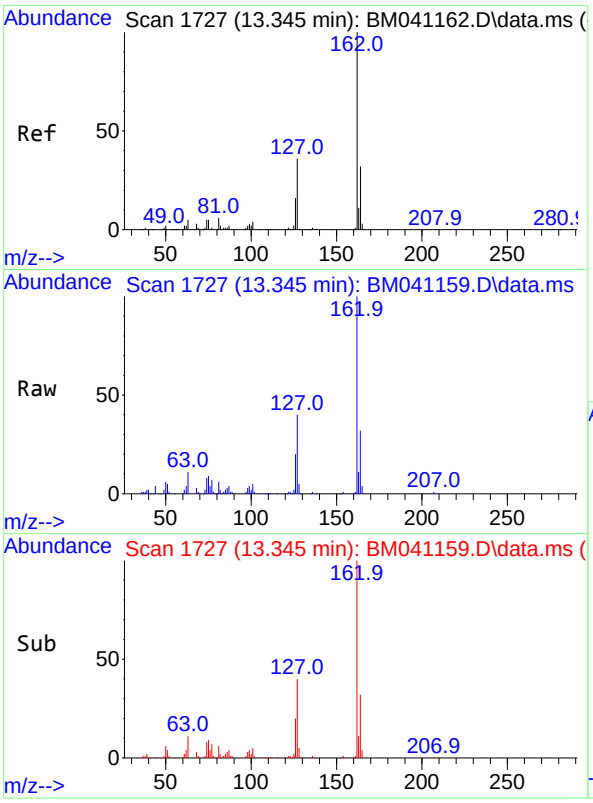


#46
1,1'-Biphenyl
Concen: 4.835 ng
RT: 13.298 min Scan# 1719
Delta R.T. -0.006 min
Lab File: BM041159.D
Acq: 28 Jul 2023 10:51

Tgt Ion:154 Resp: 133740

Ion	Ratio	Lower	Upper
154	100		
153	39.9	20.5	60.5
76	14.9	0.0	34.1

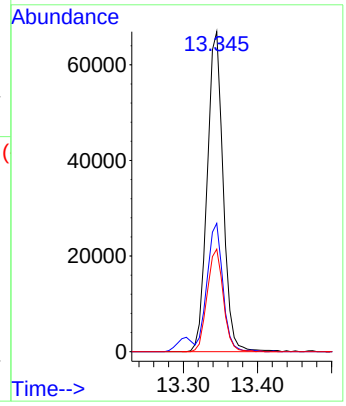




#47
2-Chloronaphthalene
Concen: 4.840 ng
RT: 13.345 min Scan# 1
Delta R.T. -0.000 min
Lab File: BM041159.D
Acq: 28 Jul 2023 10:51

Tgt Ion:162 Resp: 9995

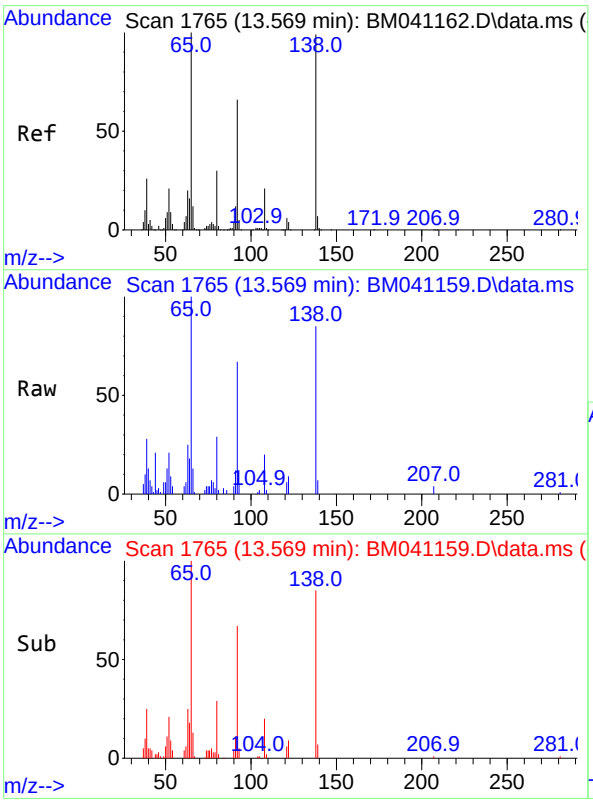
Ion	Ratio	Lower	Upper
162	100		
127	40.1	30.6	45.8
164	32.1	25.6	38.4



Instrument :
BNA_M
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

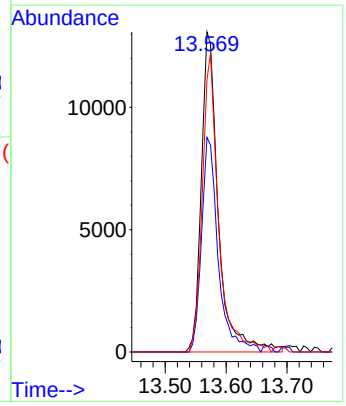
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

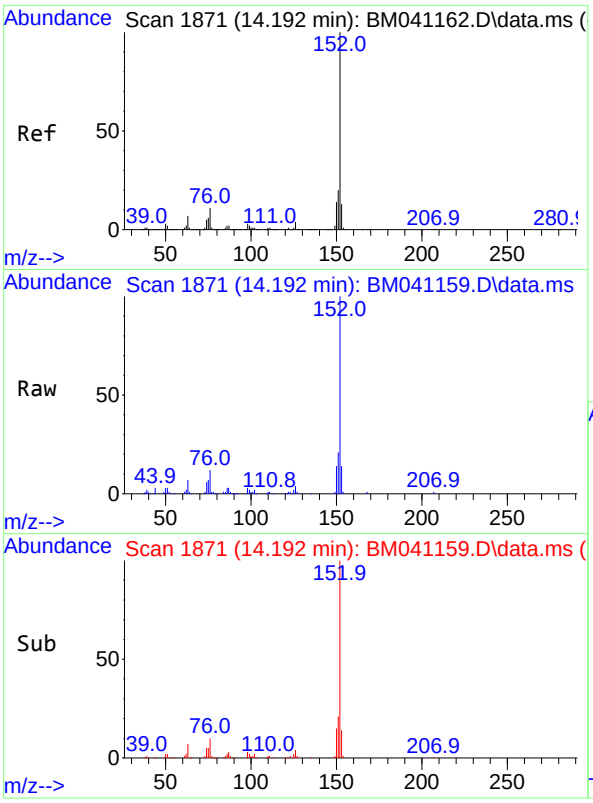


#48
2-Nitroaniline
Concen: 3.836 ng
RT: 13.569 min Scan# 1765
Delta R.T. -0.000 min
Lab File: BM041159.D
Acq: 28 Jul 2023 10:51

Tgt Ion: 65 Resp: 25288

Ion	Ratio	Lower	Upper
65	100		
92	67.0	53.0	79.4
138	85.1	79.1	118.7

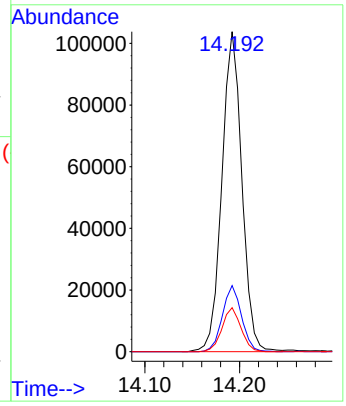




#49
Acenaphthylene
Concen: 4.562 ng
RT: 14.192 min Scan# 1
Delta R.T. -0.000 min
Lab File: BM041159.D
Acq: 28 Jul 2023 10:51

Tgt Ion:152 Resp: 15207

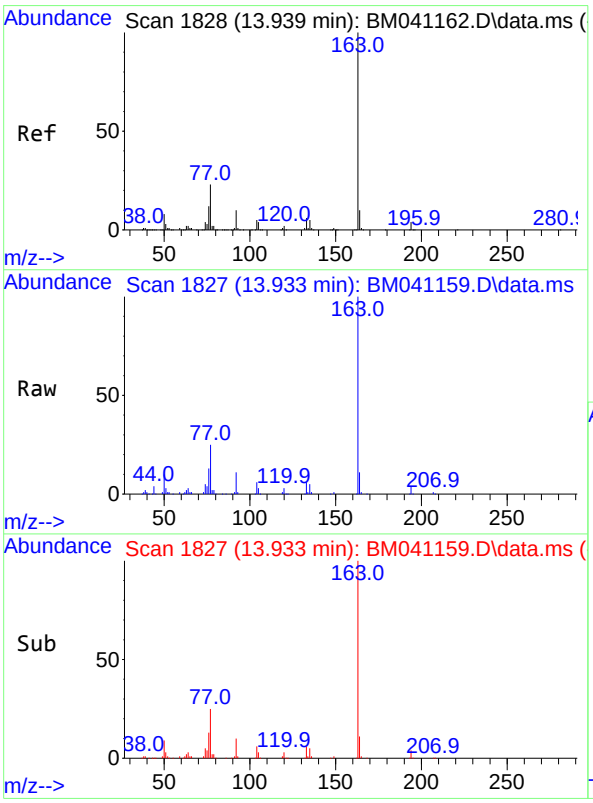
Ion	Ratio	Lower	Upper
152	100		
151	20.6	16.1	24.1
153	13.8	10.5	15.7



Instrument :
BNA_M
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

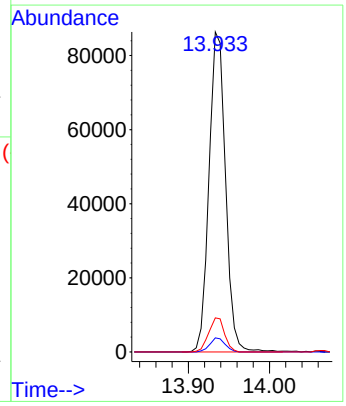
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

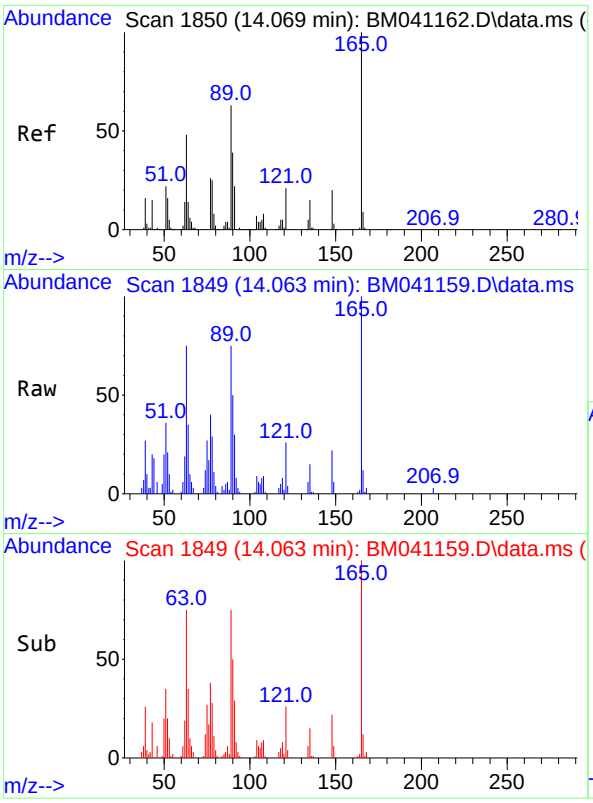


#50
Dimethylphthalate
Concen: 4.749 ng
RT: 13.933 min Scan# 1827
Delta R.T. -0.006 min
Lab File: BM041159.D
Acq: 28 Jul 2023 10:51

Tgt Ion:163 Resp: 121885

Ion	Ratio	Lower	Upper
163	100		
194	4.4	3.3	4.9
164	10.6	8.3	12.5

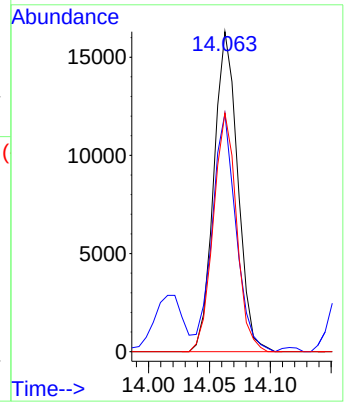




#51
2,6-Dinitrotoluene
Concen: 4.186 ng
RT: 14.063 min Scan# 1
Delta R.T. -0.006 min
Lab File: BM041159.D
Acq: 28 Jul 2023 10:51

Tgt Ion:165 Resp: 2225

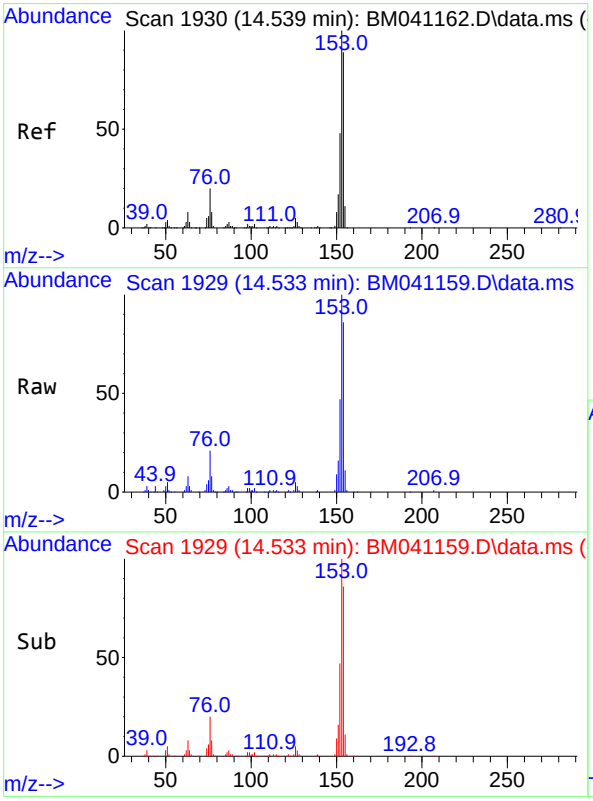
Ion	Ratio	Lower	Upper
165	100		
63	74.5	50.9	76.3
89	74.6	50.6	76.0



Instrument :
BNA_M
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

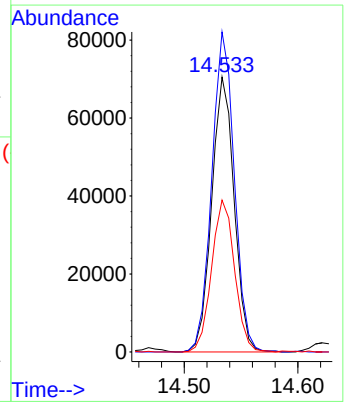
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

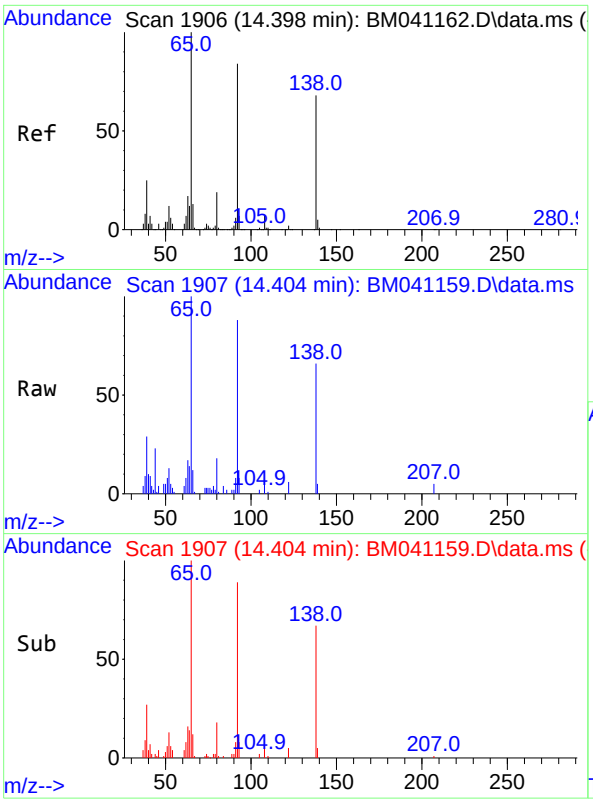


#52
Acenaphthene
Concen: 4.838 ng
RT: 14.533 min Scan# 1929
Delta R.T. -0.006 min
Lab File: BM041159.D
Acq: 28 Jul 2023 10:51

Tgt Ion:154 Resp: 97160

Ion	Ratio	Lower	Upper
154	100		
153	116.4	90.2	135.4
152	55.2	43.4	65.0

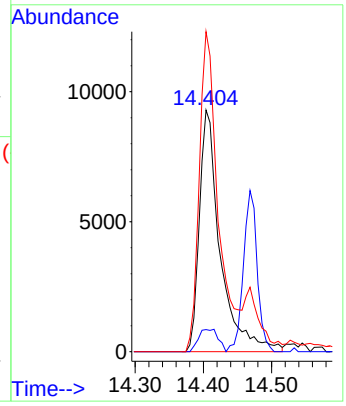




#53
3-Nitroaniline
Concen: 5.611 ng
RT: 14.404 min Scan# 1
Delta R.T. 0.006 min
Lab File: BM041159.D
Acq: 28 Jul 2023 10:51

Tgt Ion:138 Resp: 1972

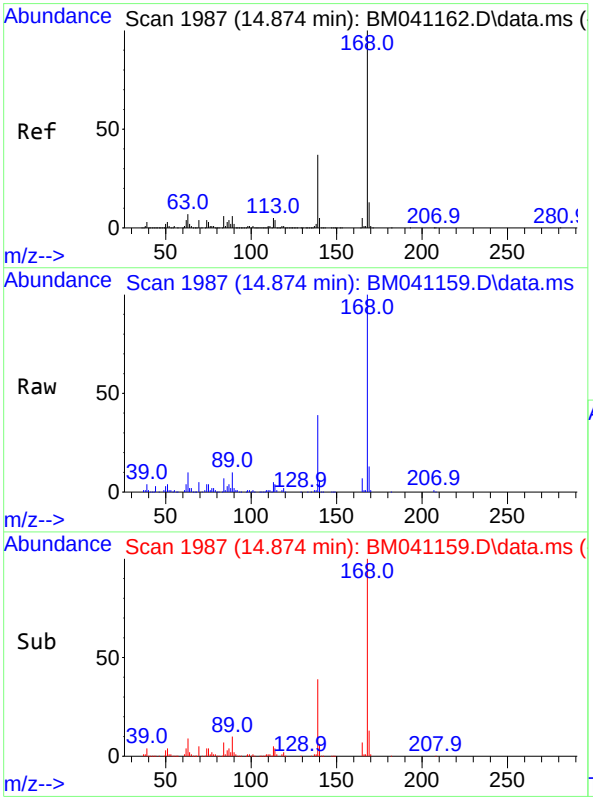
Ion	Ratio	Lower	Upper
138	100		
108	9.1	7.6	11.4
92	132.5	98.9	148.3



Instrument :
BNA_M
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

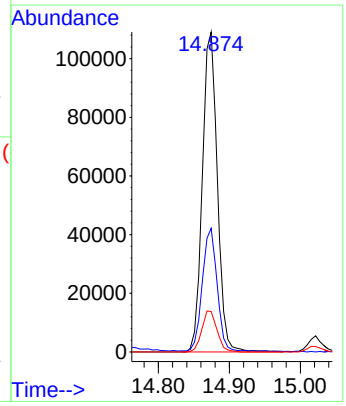
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

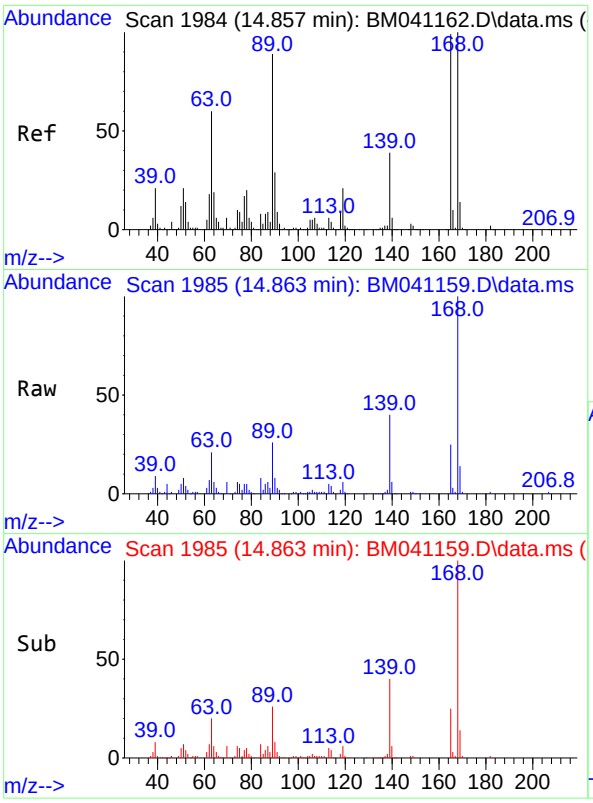


#55
Dibenzofuran
Concen: 4.893 ng
RT: 14.874 min Scan# 1987
Delta R.T. 0.000 min
Lab File: BM041159.D
Acq: 28 Jul 2023 10:51

Tgt Ion:168 Resp: 160314

Ion	Ratio	Lower	Upper
168	100		
139	38.6	29.8	44.6
169	12.7	10.5	15.7

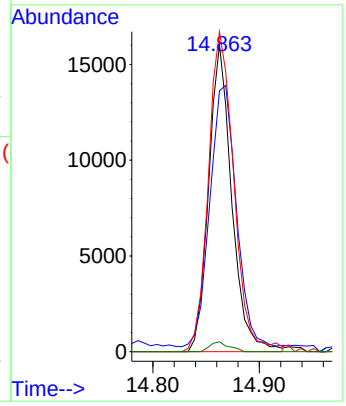




#57
2,4-Dinitrotoluene
Concen: 5.674 ng
RT: 14.863 min Scan# 1
Delta R.T. 0.006 min
Lab File: BM041159.D
Acq: 28 Jul 2023 10:51

Tgt Ion:165 Resp: 2415

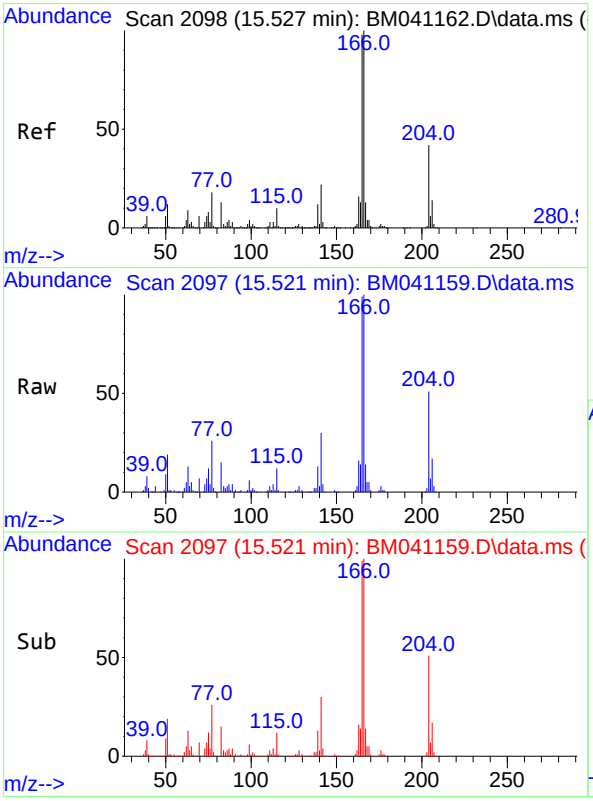
Ion	Ratio	Lower	Upper
165	100		
63	85.0	48.3	72.5#
89	104.2	71.8	107.8
182	3.2	2.0	3.0#



Instrument :
BNA_M
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

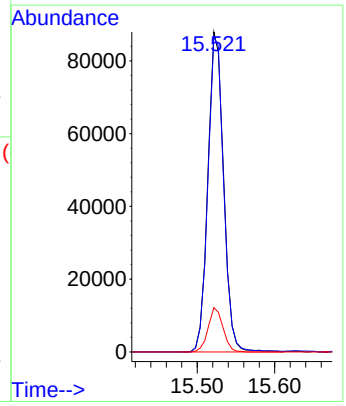
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

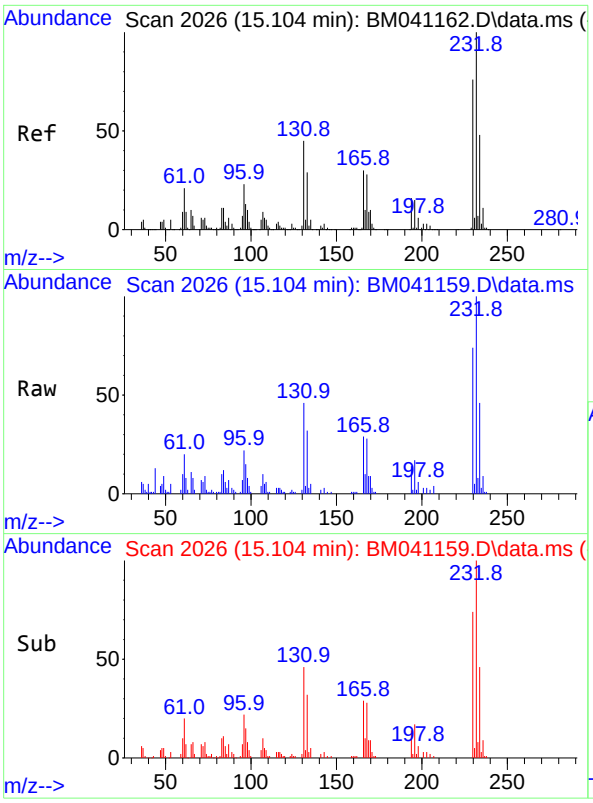


#58
Fluorene
Concen: 4.783 ng
RT: 15.521 min Scan# 2097
Delta R.T. -0.006 min
Lab File: BM041159.D
Acq: 28 Jul 2023 10:51

Tgt Ion:166 Resp: 123622

Ion	Ratio	Lower	Upper
166	100		
165	98.5	78.2	117.4
167	13.8	10.6	16.0

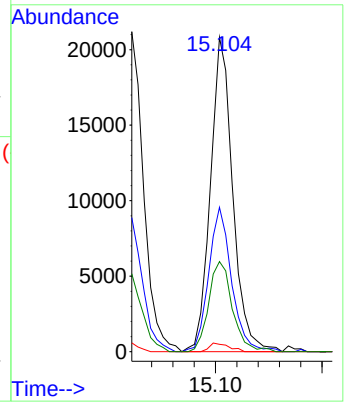




#59
2,3,4,6-Tetrachlorophenol
Concen: 4.554 ng
RT: 15.104 min Scan# 2
Delta R.T. -0.000 min
Lab File: BM041159.D
Acq: 28 Jul 2023 10:51

Tgt Ion:232 Resp: 3030

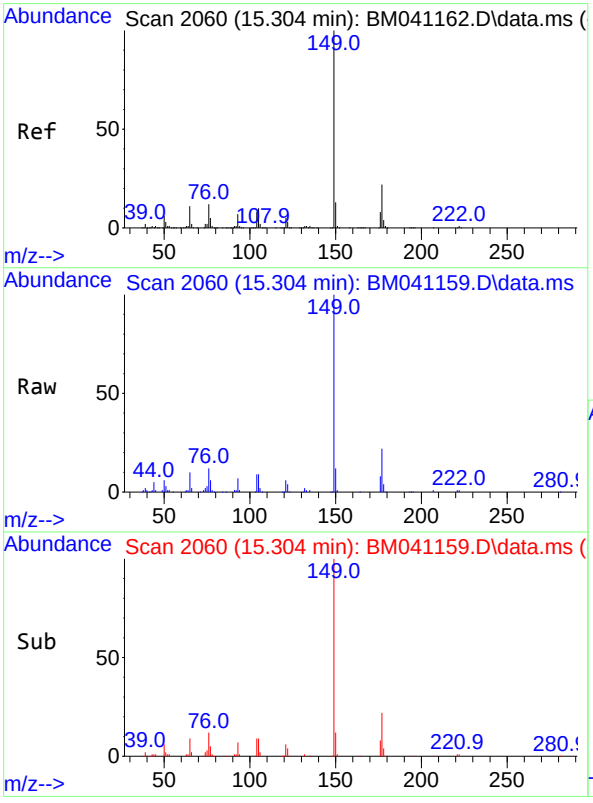
Ion	Ratio	Lower	Upper
232	100		
131	47.2	36.9	55.3
130	2.4	2.0	3.0
166	30.5	24.2	36.2



Instrument :
BNA_M
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

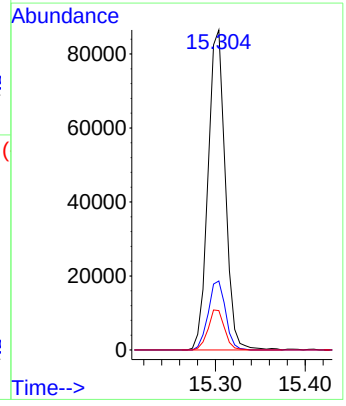
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

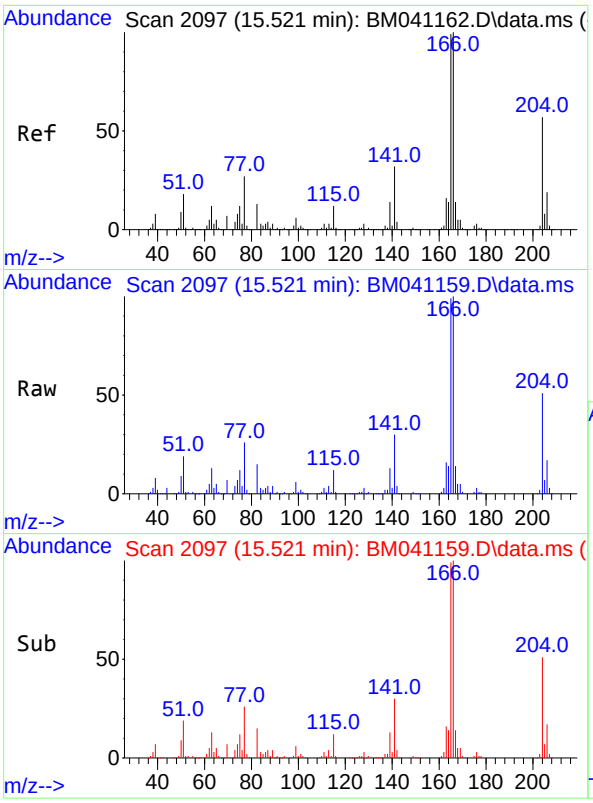


#60
Diethylphthalate
Concen: 4.635 ng
RT: 15.304 min Scan# 2060
Delta R.T. -0.000 min
Lab File: BM041159.D
Acq: 28 Jul 2023 10:51

Tgt Ion:149 Resp: 115026

Ion	Ratio	Lower	Upper
149	100		
177	21.6	17.5	26.3
150	12.3	10.1	15.1

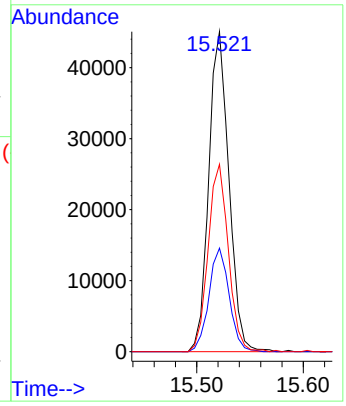




#61
4-Chlorophenyl-phenylether
Concen: 4.568 ng
RT: 15.521 min Scan# 2
Delta R.T. -0.000 min
Lab File: BM041159.D
Acq: 28 Jul 2023 10:51

Tgt Ion:204 Resp: 5916

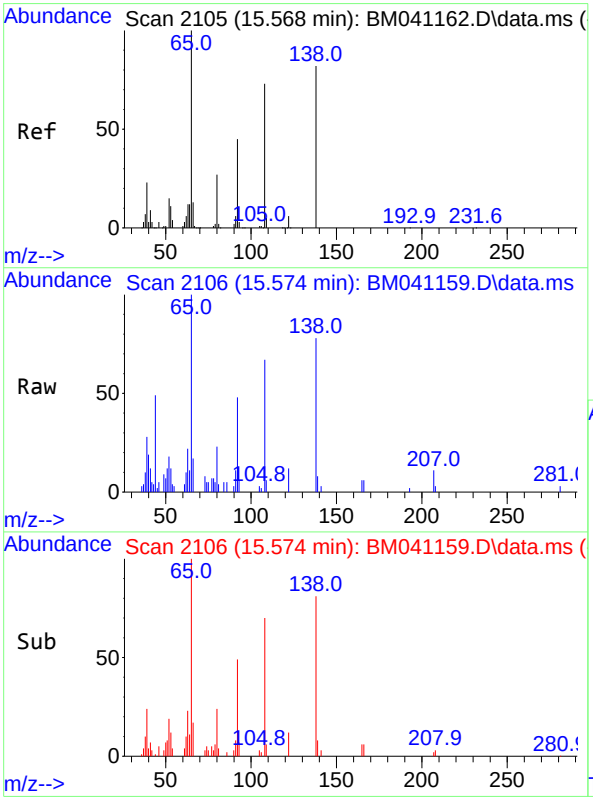
Ion	Ratio	Lower	Upper
204	100		
206	32.4	26.5	39.7
141	58.6	44.8	67.2



Instrument :
BNA_M
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

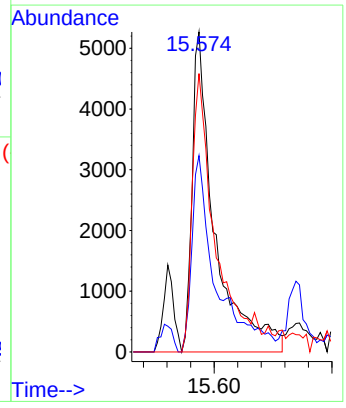
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

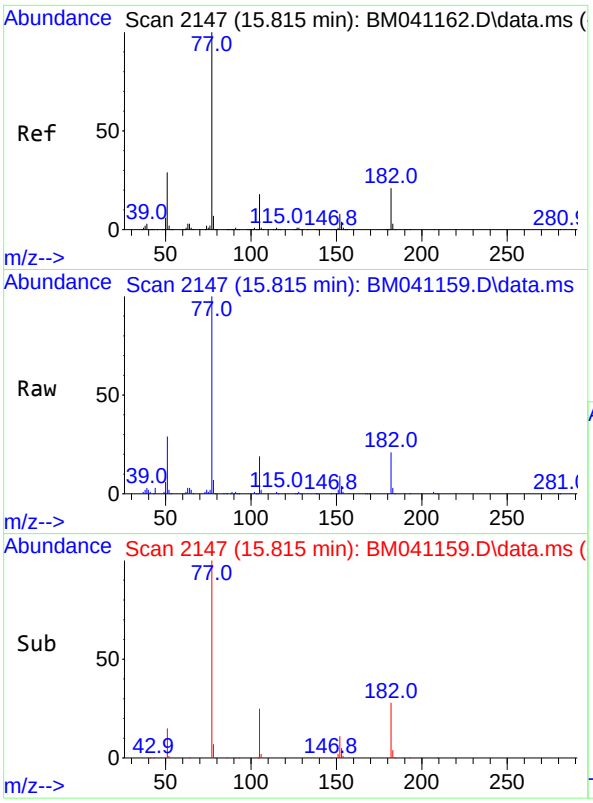


#62
4-Nitroaniline
Concen: 6.429 ng m
RT: 15.574 min Scan# 2106
Delta R.T. 0.006 min
Lab File: BM041159.D
Acq: 28 Jul 2023 10:51

Tgt Ion:138 Resp: 14161

Ion	Ratio	Lower	Upper
138	100		
92	61.3	35.1	75.1
108	87.0	67.8	107.8

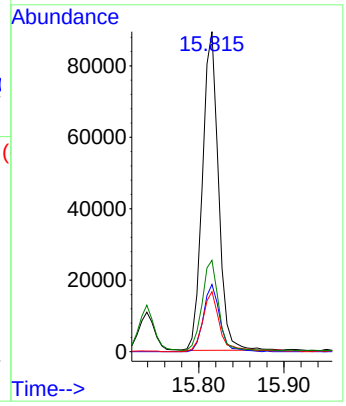




#63
Azobenzene
Concen: 4.279 ng
RT: 15.815 min Scan# 21
Delta R.T. 0.000 min
Lab File: BM041159.D
Acq: 28 Jul 2023 10:51

Tgt Ion: 77 Resp: 11632

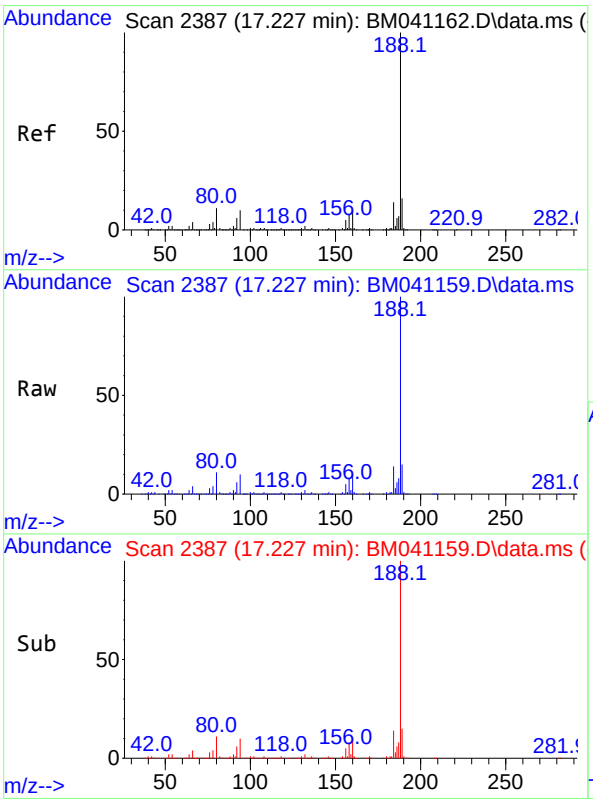
Ion	Ratio	Lower	Upper
77	100		
182	21.0	1.3	41.3
105	18.8	0.0	38.5
51	28.5	9.1	49.1



Instrument :
BNA_M
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

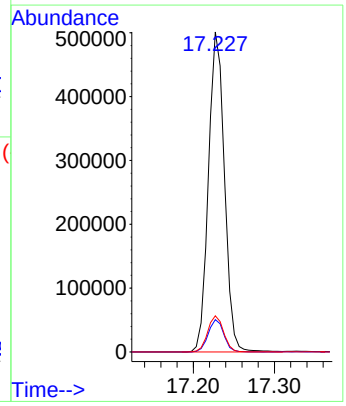
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

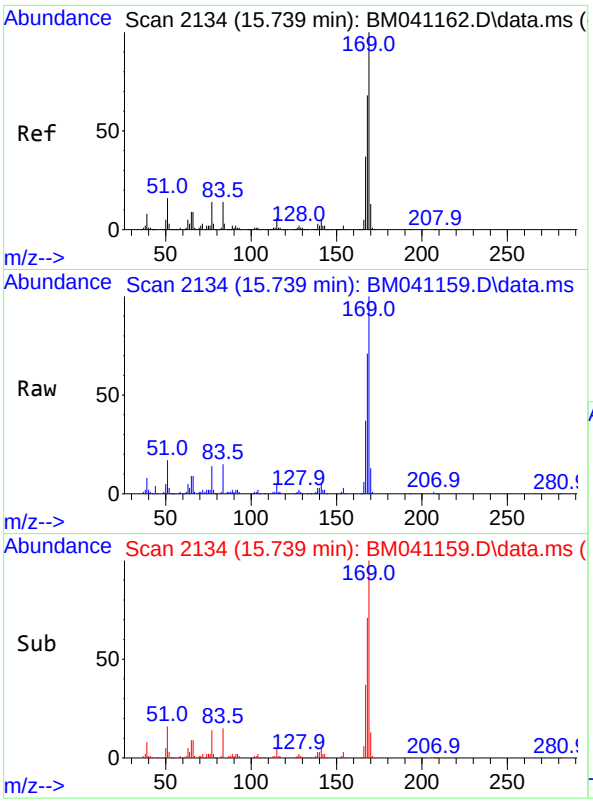


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.227 min Scan# 2387
Delta R.T. -0.000 min
Lab File: BM041159.D
Acq: 28 Jul 2023 10:51

Tgt Ion:188 Resp: 686242

Ion	Ratio	Lower	Upper
188	100		
94	10.1	8.2	12.2
80	11.3	8.6	13.0

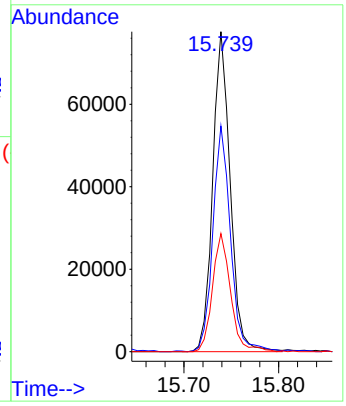




#66
n-Nitrosodiphenylamine
Concen: 4.647 ng
RT: 15.739 min Scan# 2
Delta R.T. -0.000 min
Lab File: BM041159.D
Acq: 28 Jul 2023 10:51

Tgt Ion:169 Resp: 9917

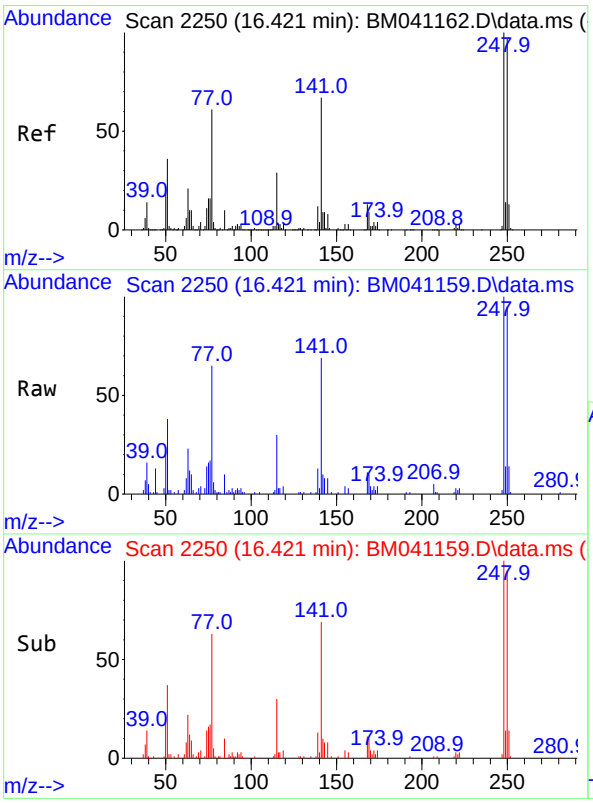
Ion	Ratio	Lower	Upper
169	100		
168	70.5	54.6	81.8
167	36.9	29.9	44.9



Instrument :
BNA_M
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

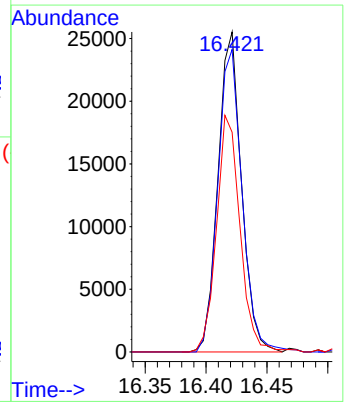
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

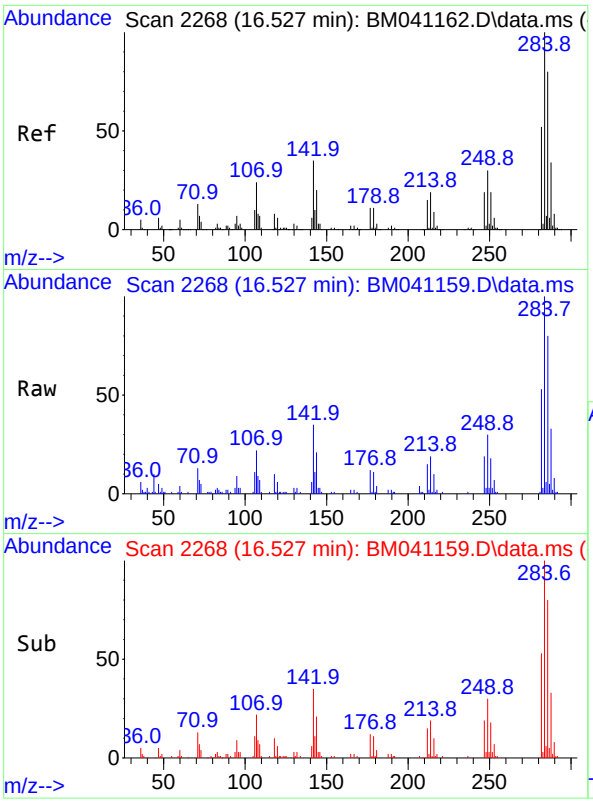


#67
4-Bromophenyl-phenylether
Concen: 4.550 ng
RT: 16.421 min Scan# 2250
Delta R.T. -0.000 min
Lab File: BM041159.D
Acq: 28 Jul 2023 10:51

Tgt Ion:248 Resp: 34235

Ion	Ratio	Lower	Upper
248	100		
250	94.5	78.0	117.0
141	68.7	53.8	80.8

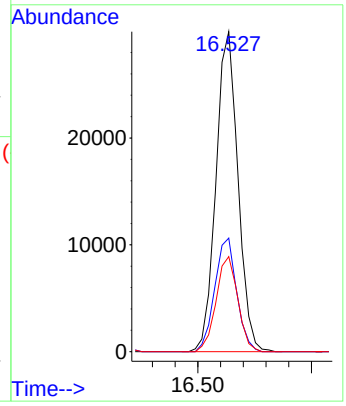




#68
Hexachlorobenzene
Concen: 4.808 ng
RT: 16.527 min Scan# 2
Delta R.T. -0.000 min
Lab File: BM041159.D
Acq: 28 Jul 2023 10:51

Tgt Ion:284 Resp: 4022

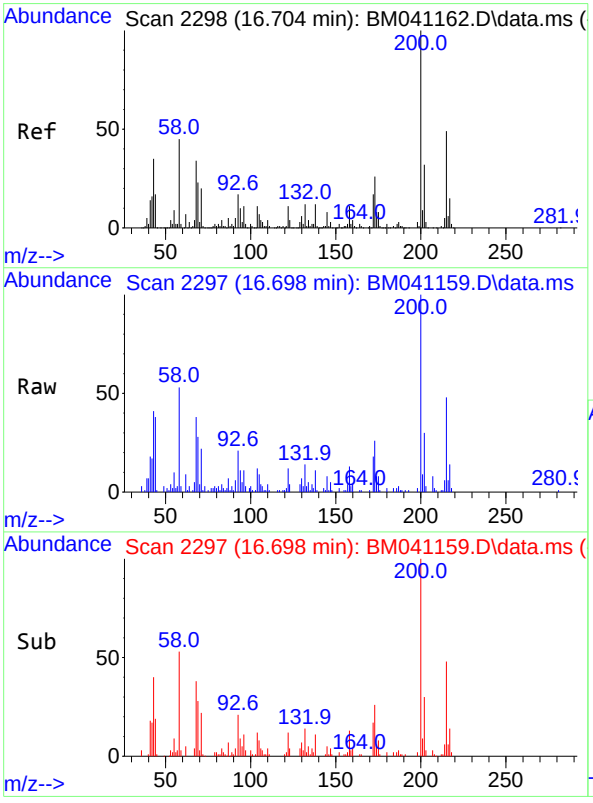
Ion	Ratio	Lower	Upper
284	100		
142	35.5	28.0	42.0
249	32.9	23.7	35.5



Instrument :
BNA_M
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

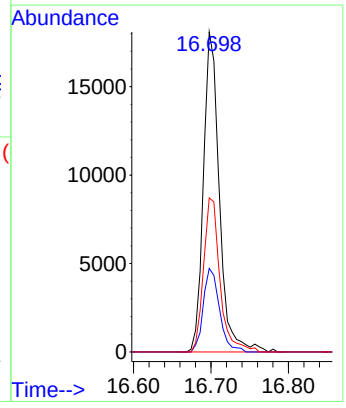
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

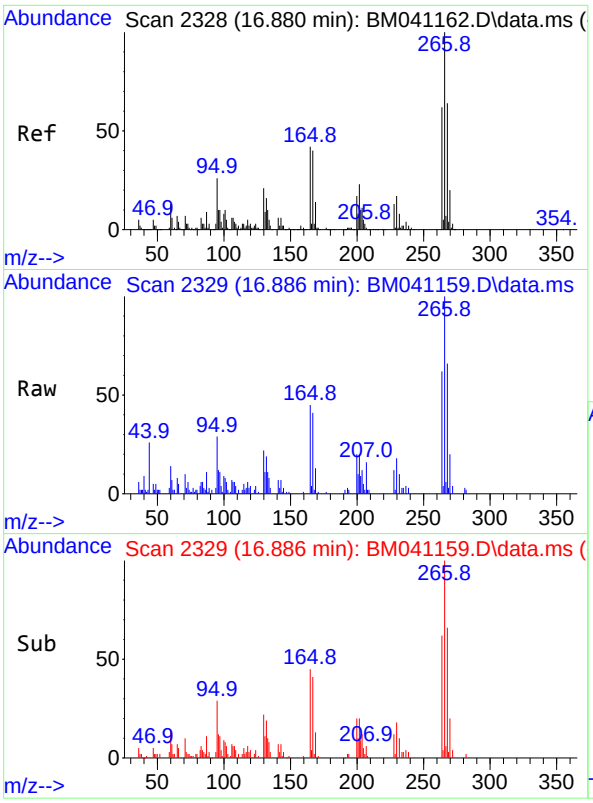


#69
Atrazine
Concen: 4.615 ng
RT: 16.698 min Scan# 2297
Delta R.T. -0.006 min
Lab File: BM041159.D
Acq: 28 Jul 2023 10:51

Tgt Ion:200 Resp: 25865

Ion	Ratio	Lower	Upper
200	100		
173	26.1	5.6	45.6
215	48.2	28.5	68.5

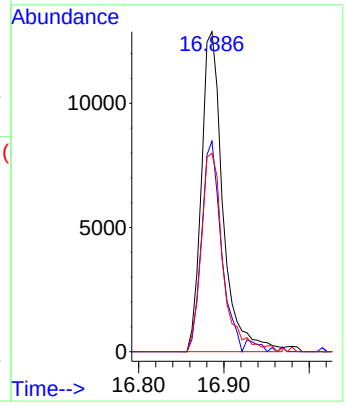




#70
Pentachlorophenol
Concen: 3.896 ng
RT: 16.886 min Scan# 2
Delta R.T. 0.006 min
Lab File: BM041159.D
Acq: 28 Jul 2023 10:51

Tgt Ion:266 Resp: 2257

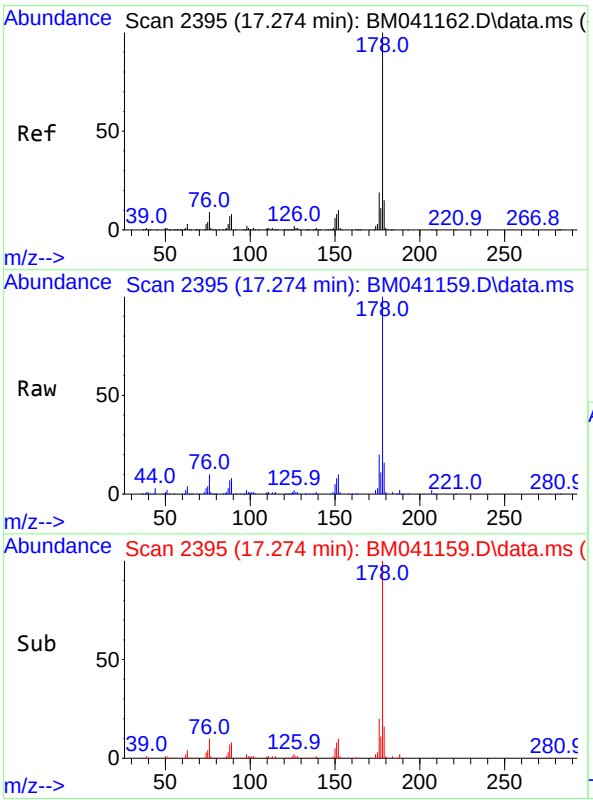
Ion	Ratio	Lower	Upper
266	100		
268	69.2	51.0	76.6
264	66.5	49.4	74.2



Instrument :
BNA_M
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

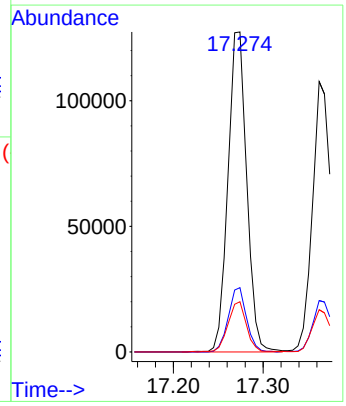
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

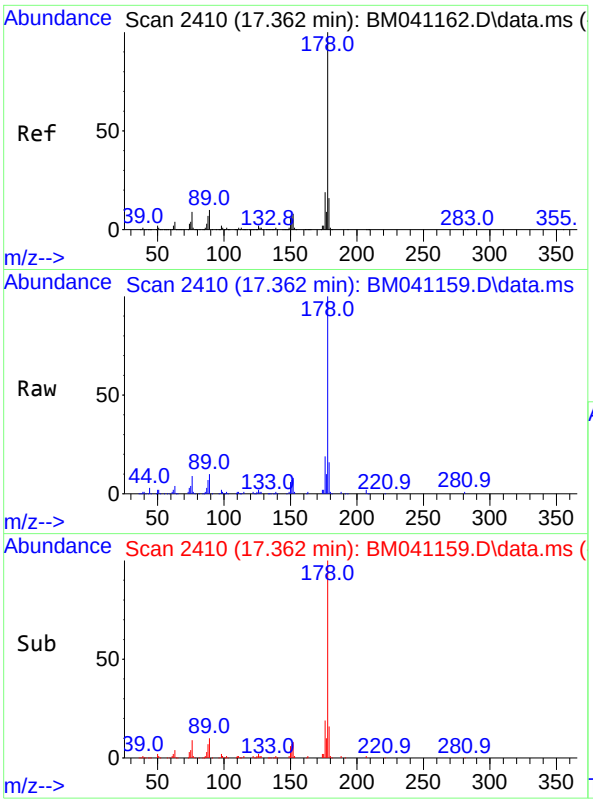


#71
Phenanthrene
Concen: 4.863 ng
RT: 17.274 min Scan# 2395
Delta R.T. -0.000 min
Lab File: BM041159.D
Acq: 28 Jul 2023 10:51

Tgt Ion:178 Resp: 185419

Ion	Ratio	Lower	Upper
178	100		
176	20.1	15.6	23.4
179	15.7	12.1	18.1

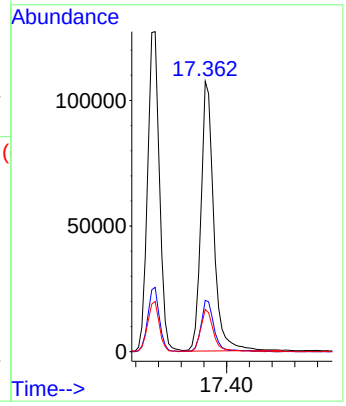




#72
Anthracene
Concen: 4.464 ng
RT: 17.362 min Scan# 24
Delta R.T. -0.000 min
Lab File: BM041159.D
Acq: 28 Jul 2023 10:51

Tgt Ion:178 Resp: 16832

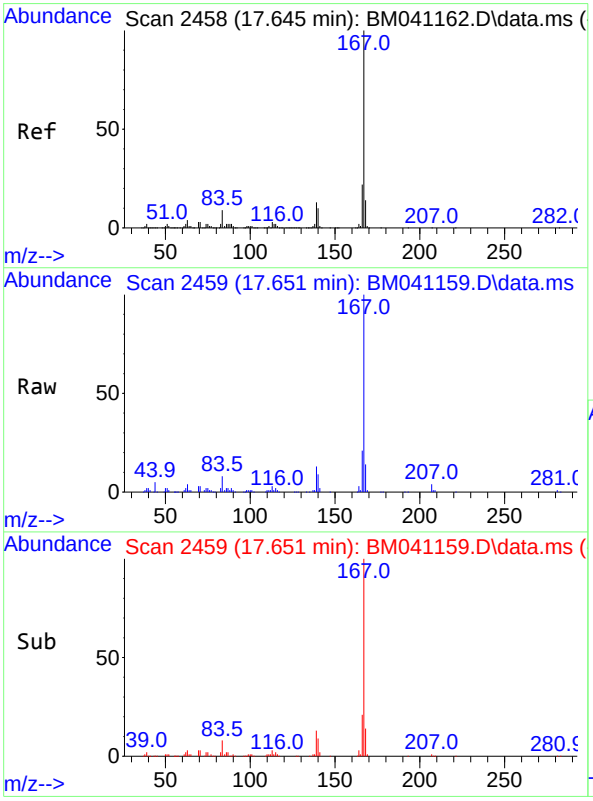
Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.2	22.8
179	15.6	12.4	18.6



Instrument :
BNA_M
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

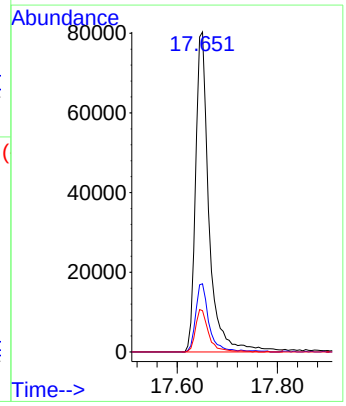
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

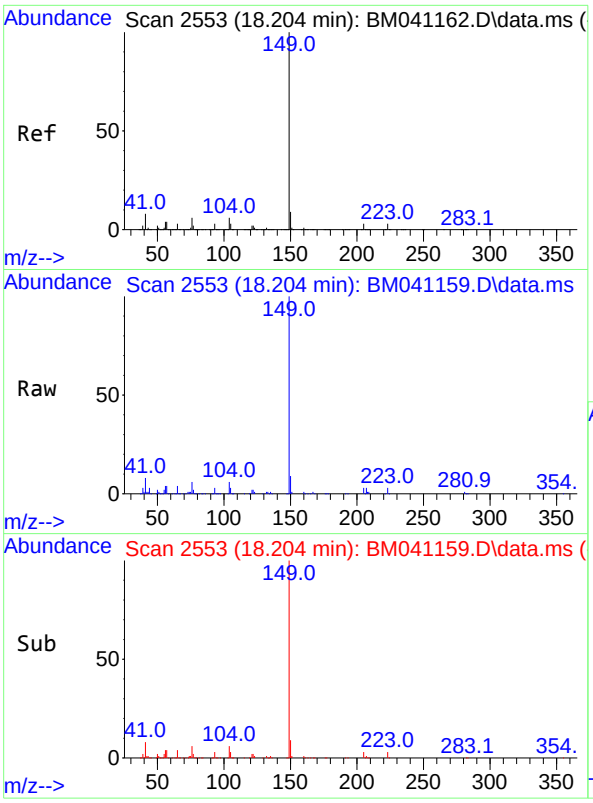


#73
Carbazole
Concen: 4.375 ng
RT: 17.651 min Scan# 2459
Delta R.T. 0.006 min
Lab File: BM041159.D
Acq: 28 Jul 2023 10:51

Tgt Ion:167 Resp: 149337

Ion	Ratio	Lower	Upper
167	100		
166	21.3	17.3	25.9
139	12.9	10.3	15.5

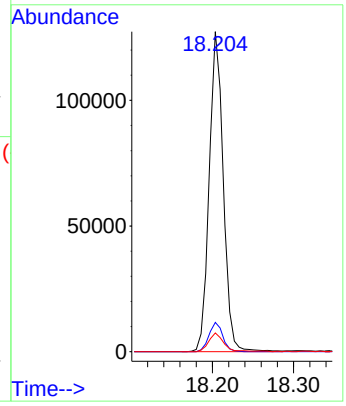




#74
Di-n-butylphthalate
Concen: 3.966 ng
RT: 18.204 min Scan# 2
Delta R.T. -0.000 min
Lab File: BM041159.D
Acq: 28 Jul 2023 10:51

Tgt Ion:149 Resp: 15295

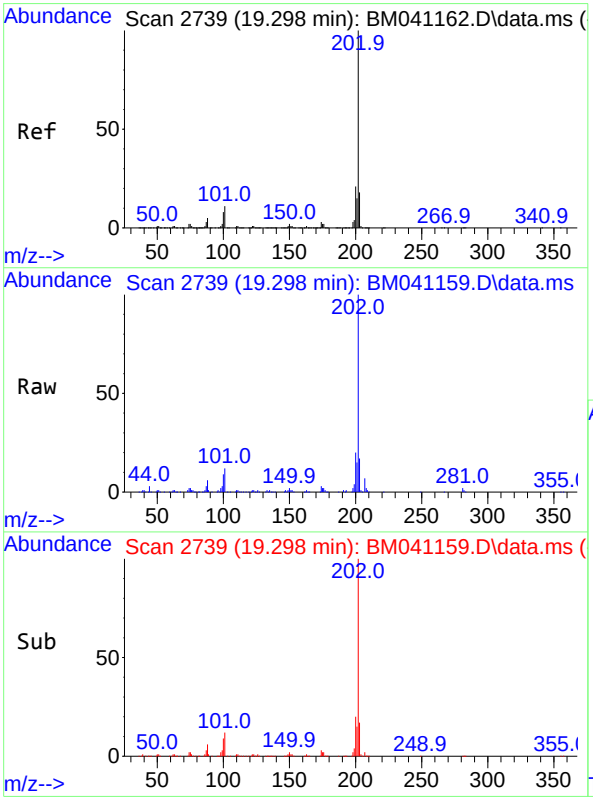
Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.3	10.9
104	5.9	4.5	6.7



Instrument :
BNA_M
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

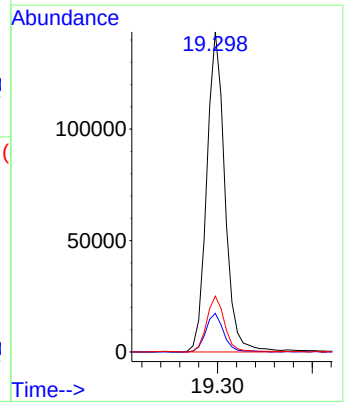
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

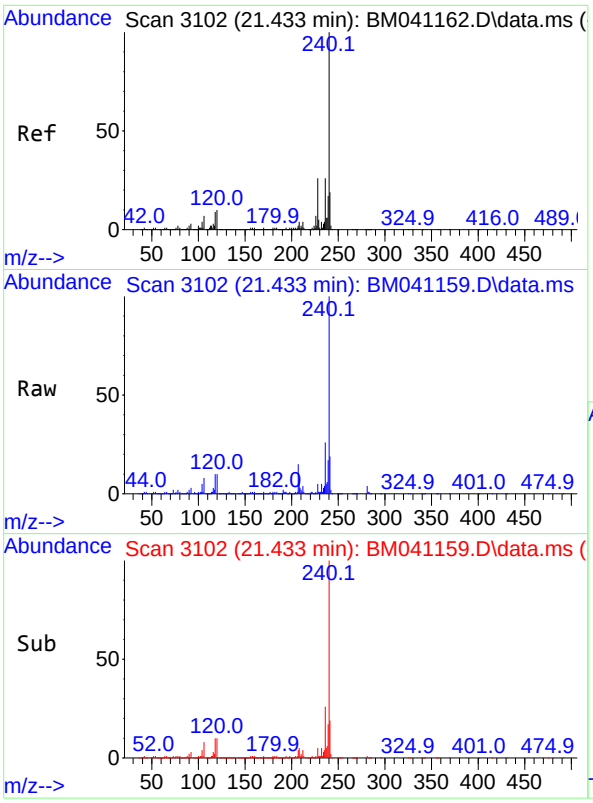


#75
Fluoranthene
Concen: 4.448 ng
RT: 19.298 min Scan# 2739
Delta R.T. -0.000 min
Lab File: BM041159.D
Acq: 28 Jul 2023 10:51

Tgt Ion:202 Resp: 190529

Ion	Ratio	Lower	Upper
202	100		
101	12.0	0.0	30.8
203	17.5	0.0	37.6

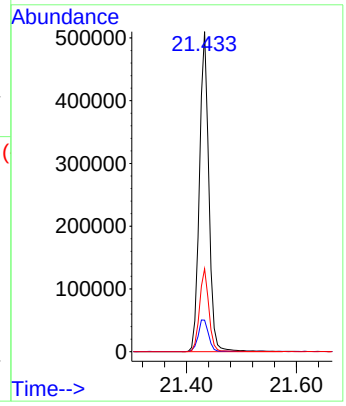




#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.433 min Scan# 3
Delta R.T. -0.000 min
Lab File: BM041159.D
Acq: 28 Jul 2023 10:51

Tgt Ion:240 Resp: 60413

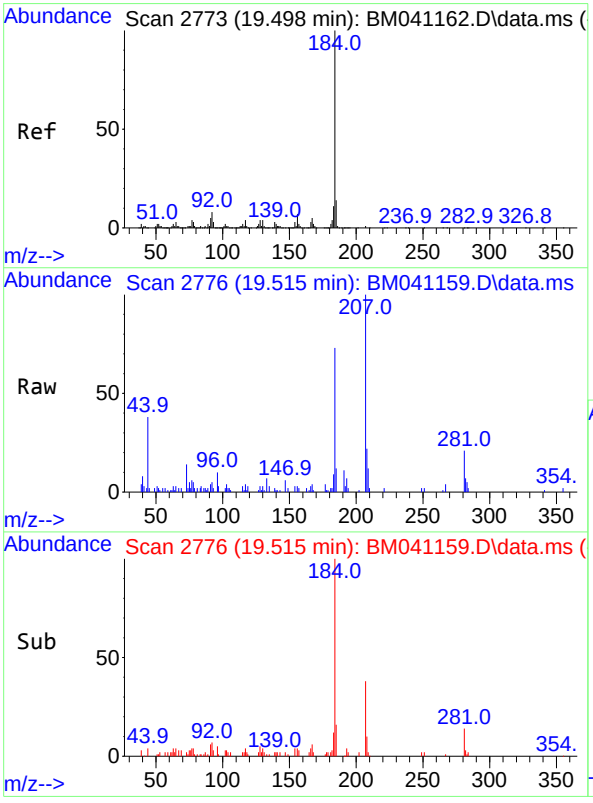
Ion	Ratio	Lower	Upper
240	100		
120	9.8	8.3	12.5
236	25.9	20.6	30.8



Instrument :
BNA_M
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

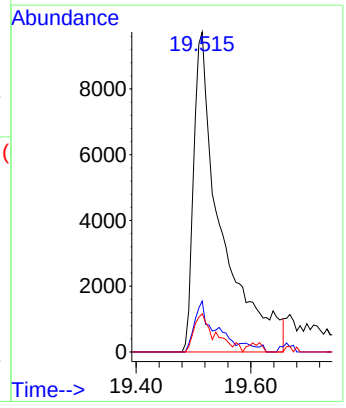
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

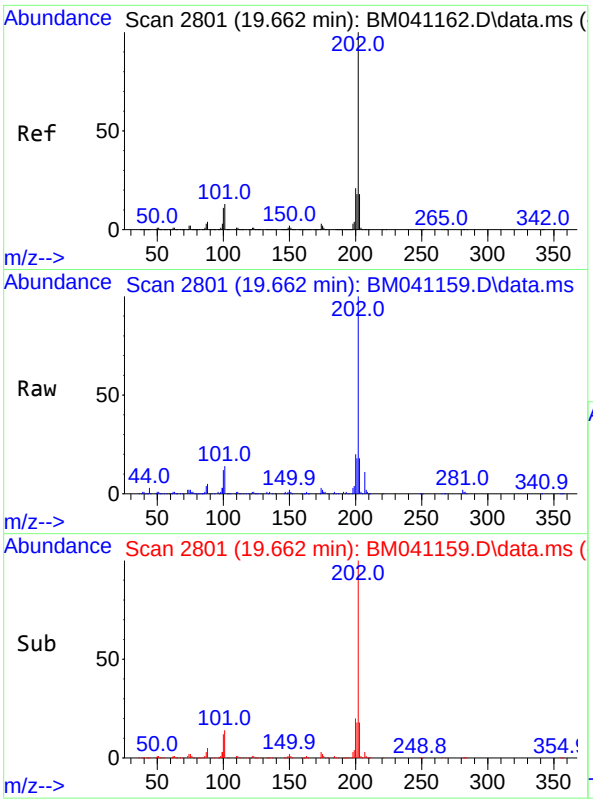


#77
Benzidine
Concen: 3.914 ng m
RT: 19.515 min Scan# 2776
Delta R.T. 0.017 min
Lab File: BM041159.D
Acq: 28 Jul 2023 10:51

Tgt Ion:184 Resp: 32378

Ion	Ratio	Lower	Upper
184	100		
185	15.9	11.4	17.0
183	11.9	9.2	13.8

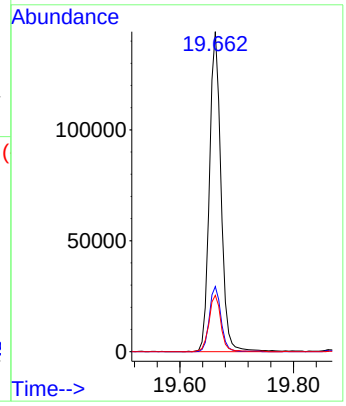




#78
Pyrene
Concen: 4.788 ng
RT: 19.662 min Scan# 2
Delta R.T. -0.000 min
Lab File: BM041159.D
Acq: 28 Jul 2023 10:51

Tgt Ion:202 Resp: 20228

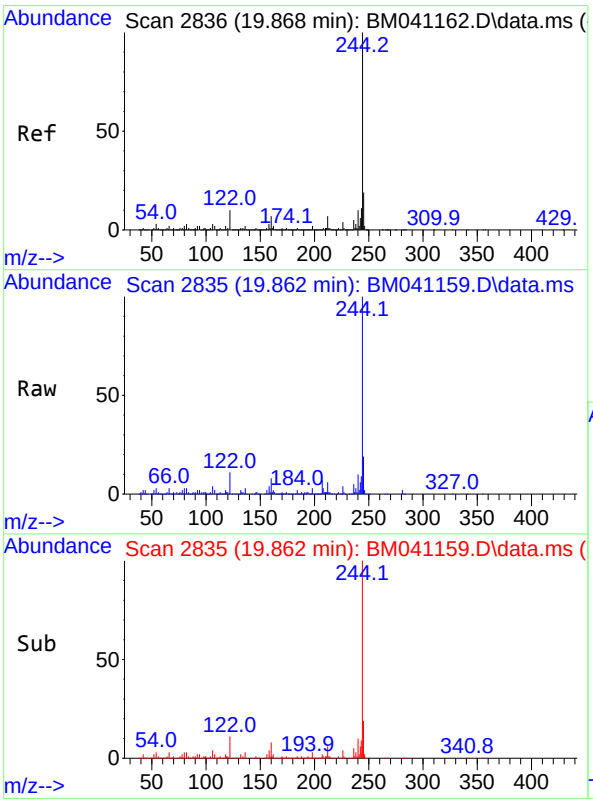
Ion	Ratio	Lower	Upper
202	100		
200	20.4	16.9	25.3
203	17.6	14.1	21.1



Instrument :
BNA_M
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

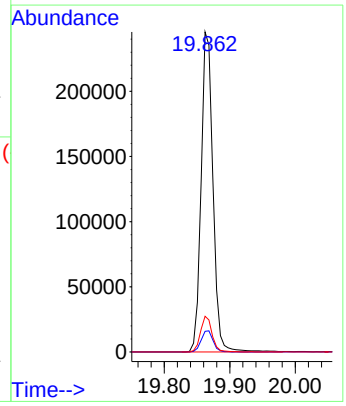
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

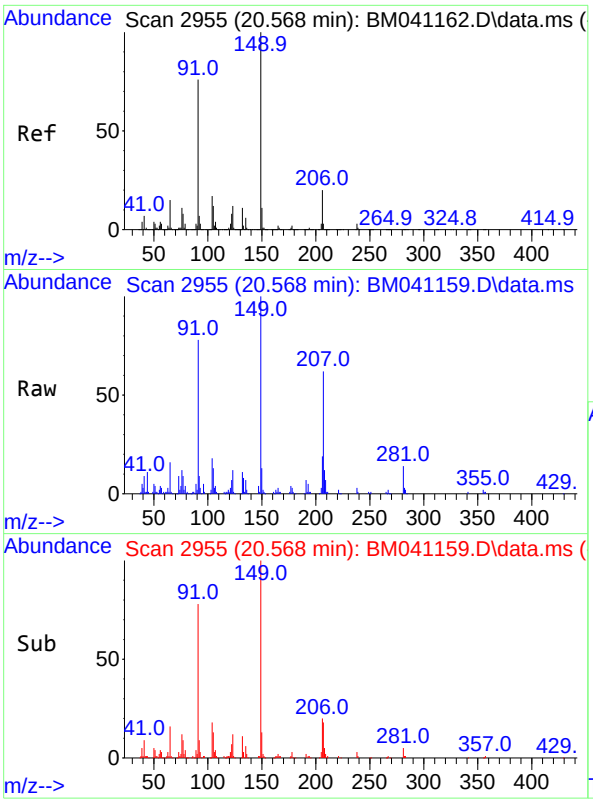


#79
Terphenyl-d14
Concen: 9.252 ng
RT: 19.862 min Scan# 2835
Delta R.T. -0.006 min
Lab File: BM041159.D
Acq: 28 Jul 2023 10:51

Tgt Ion:244 Resp: 309144

Ion	Ratio	Lower	Upper
244	100		
212	6.5	5.4	8.2
122	11.2	7.8	11.6

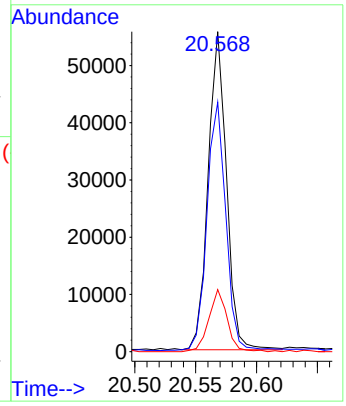




#80
Butylbenzylphthalate
Concen: 3.770 ng
RT: 20.568 min Scan# 2
Delta R.T. 0.000 min
Lab File: BM041159.D
Acq: 28 Jul 2023 10:51

Tgt Ion:149 Resp: 5816

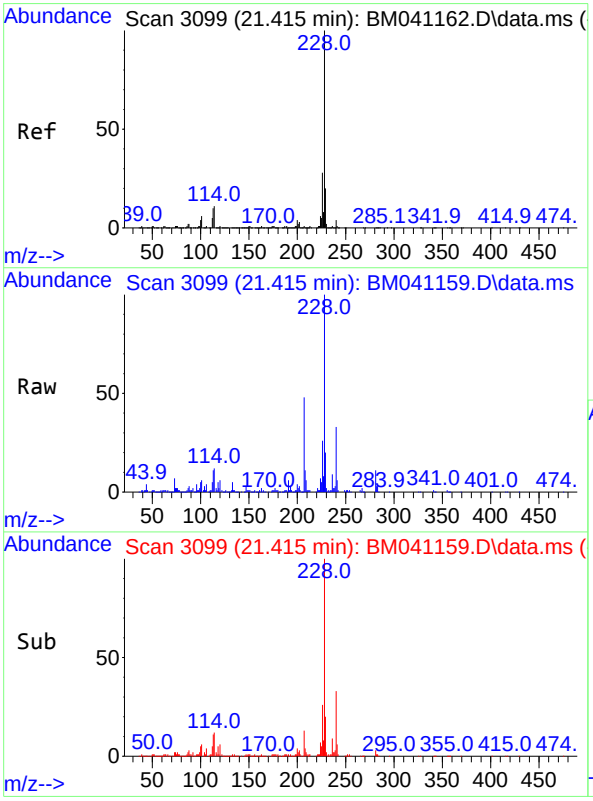
Ion	Ratio	Lower	Upper
149	100		
91	77.9	60.8	91.2
206	19.4	16.4	24.6



Instrument :
BNA_M
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

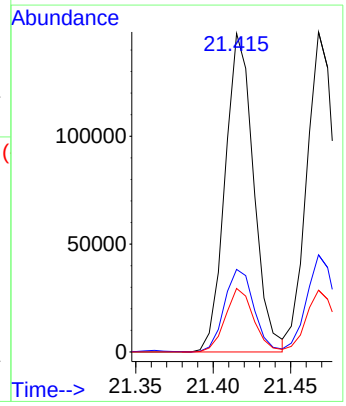
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

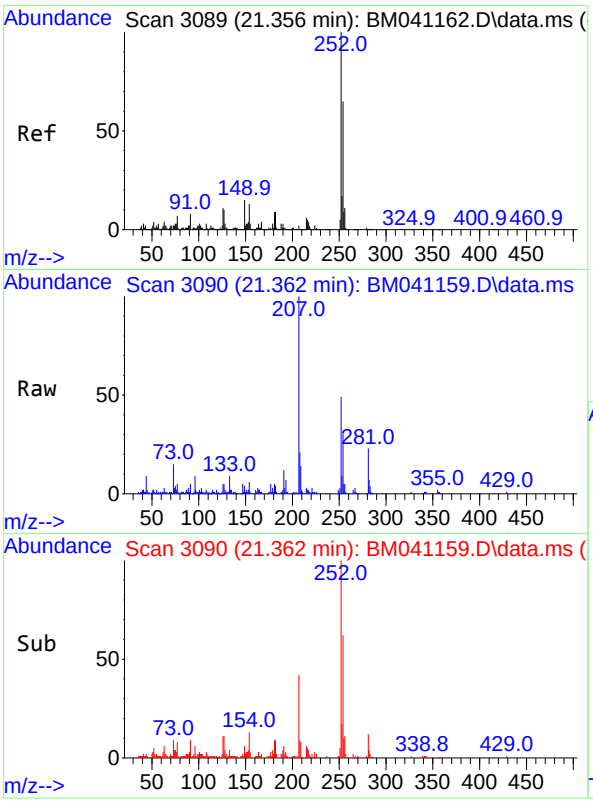


#81
Benzo(a)anthracene
Concen: 4.622 ng
RT: 21.415 min Scan# 3099
Delta R.T. -0.000 min
Lab File: BM041159.D
Acq: 28 Jul 2023 10:51

Tgt Ion:228 Resp: 189315

Ion	Ratio	Lower	Upper
228	100		
226	25.9	22.4	33.6
229	19.9	15.8	23.8

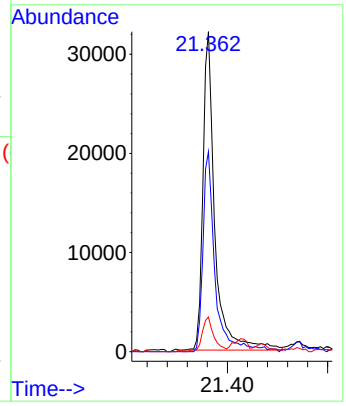




#82
3,3'-Dichlorobenzidine
Concen: 3.955 ng
RT: 21.362 min Scan# 3
Delta R.T. 0.006 min
Lab File: BM041159.D
Acq: 28 Jul 2023 10:51

Tgt Ion:252 Resp: 5285

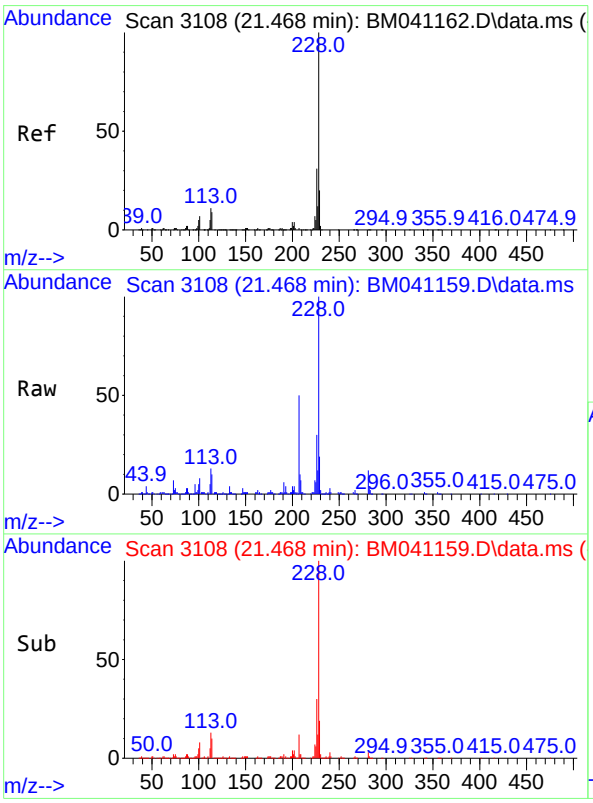
Ion	Ratio	Lower	Upper
252	100		
254	62.5	51.8	77.6
126	10.9	8.6	13.0



Instrument :
BNA_M
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

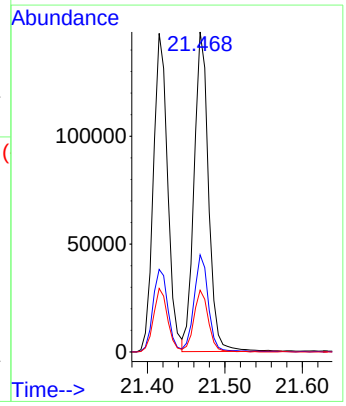
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

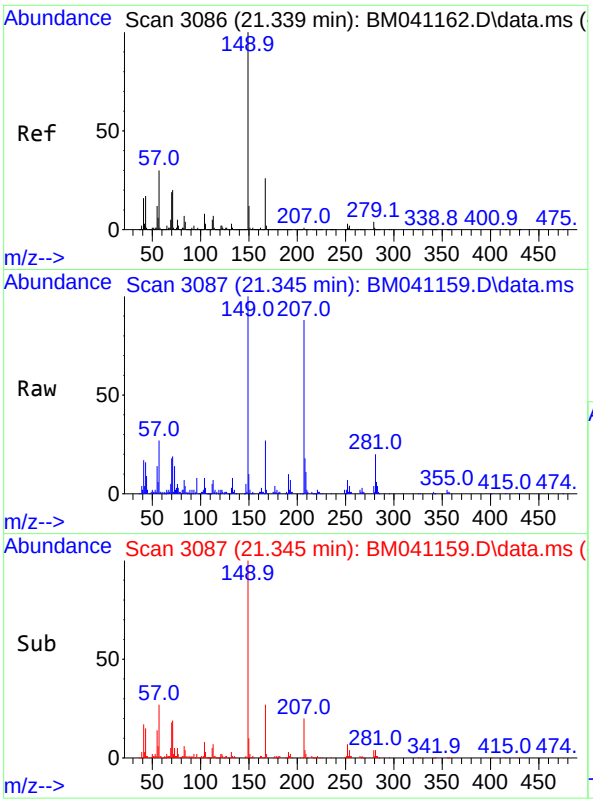


#83
Chrysene
Concen: 4.837 ng
RT: 21.468 min Scan# 3108
Delta R.T. -0.000 min
Lab File: BM041159.D
Acq: 28 Jul 2023 10:51

Tgt Ion:228 Resp: 191611

Ion	Ratio	Lower	Upper
228	100		
226	30.4	24.5	36.7
229	19.3	15.8	23.8

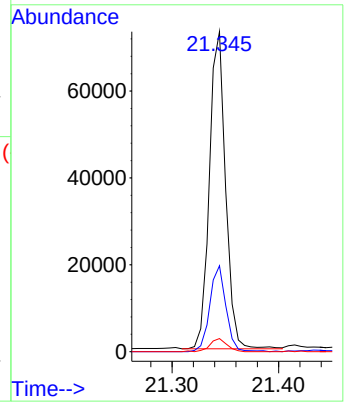




#84
Bis(2-ethylhexyl)phthalate
Concen: 5.522 ng
RT: 21.345 min Scan# 3
Delta R.T. 0.006 min
Lab File: BM041159.D
Acq: 28 Jul 2023 10:51

Tgt Ion:149 Resp: 7716

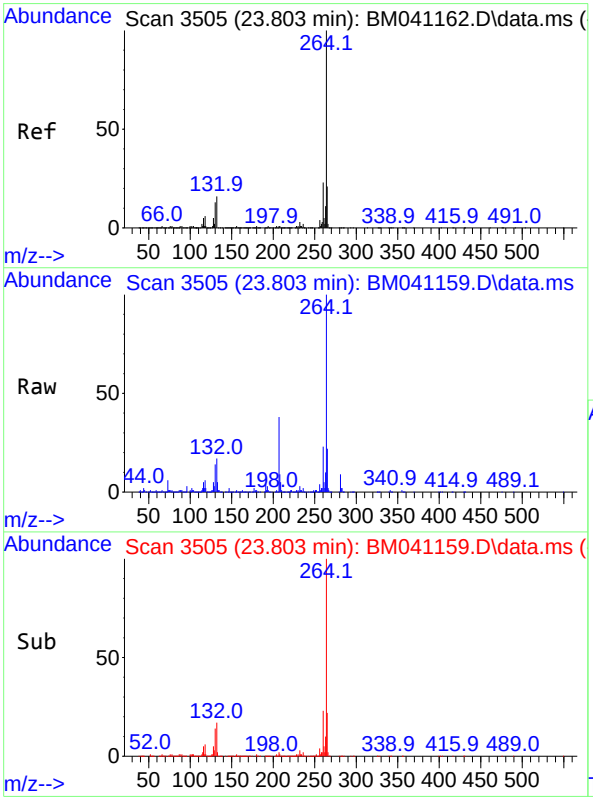
Ion	Ratio	Lower	Upper
149	100		
167	26.9	21.0	31.6
279	4.1	3.1	4.7



Instrument :
BNA_M
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

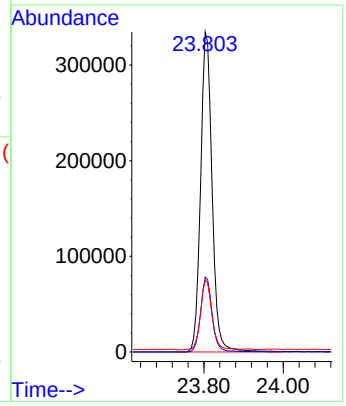
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

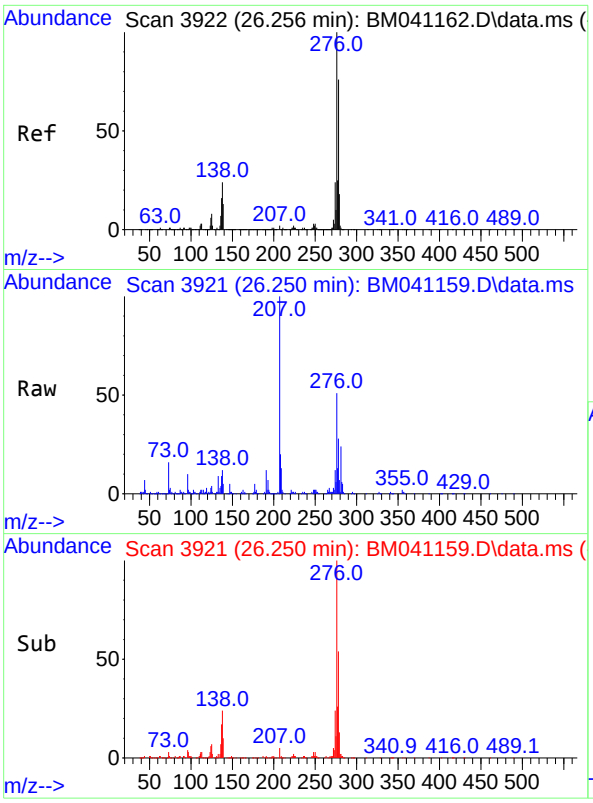


#86
Perylene-d12
Concen: 20.000 ng
RT: 23.803 min Scan# 3505
Delta R.T. -0.000 min
Lab File: BM041159.D
Acq: 28 Jul 2023 10:51

Tgt Ion:264 Resp: 672689

Ion	Ratio	Lower	Upper
264	100		
260	23.4	18.5	27.7
265	22.5	17.4	26.0

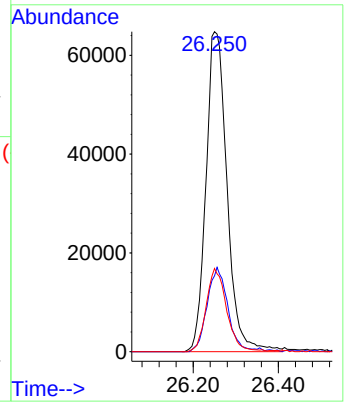




#87
Indeno(1,2,3-cd)pyrene
Concen: 4.495 ng
RT: 26.250 min Scan# 3
Delta R.T. -0.006 min
Lab File: BM041159.D
Acq: 28 Jul 2023 10:51

Tgt Ion:276 Resp: 22232

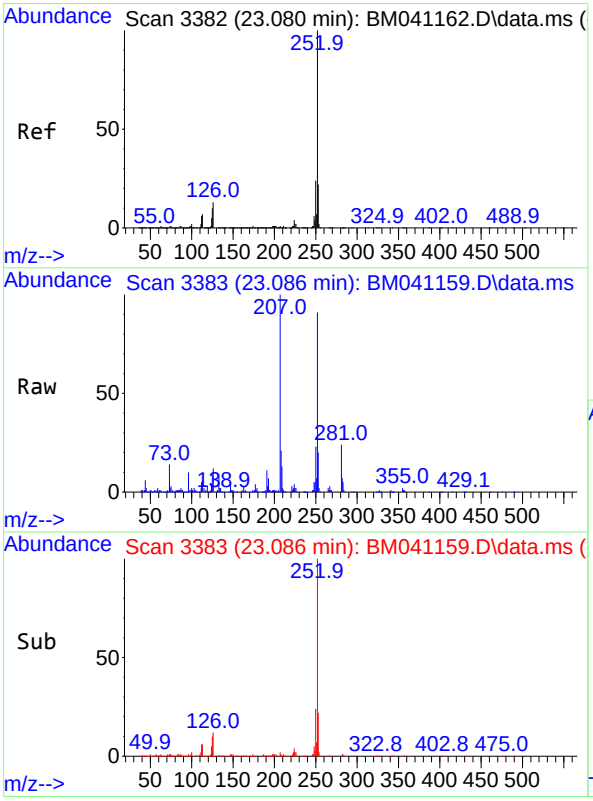
Ion	Ratio	Lower	Upper
276	100		
138	25.6	20.0	30.0
277	25.3	20.1	30.1



Instrument :
BNA_M
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

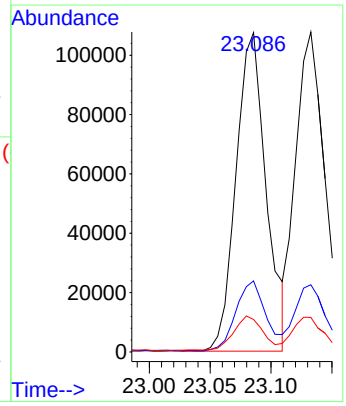
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

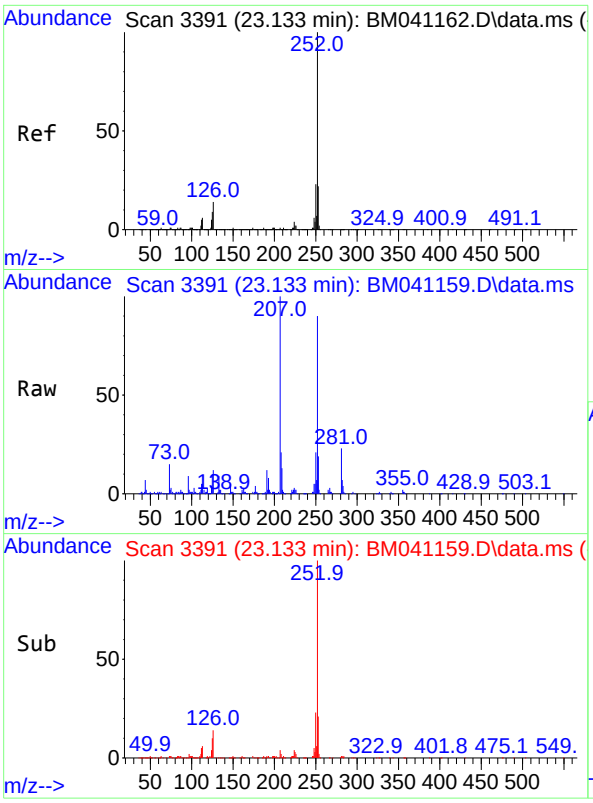


#88
Benzo(b)fluoranthene
Concen: 4.618 ng
RT: 23.086 min Scan# 3383
Delta R.T. 0.006 min
Lab File: BM041159.D
Acq: 28 Jul 2023 10:51

Tgt Ion:252 Resp: 184538

Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.7	26.5
125	10.2	8.2	12.4

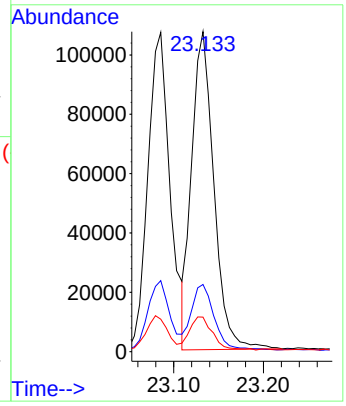




#89
Benzo(k)fluoranthene
Concen: 4.510 ng
RT: 23.133 min Scan# 3
Delta R.T. -0.000 min
Lab File: BM041159.D
Acq: 28 Jul 2023 10:51

Tgt Ion:252 Resp: 18437

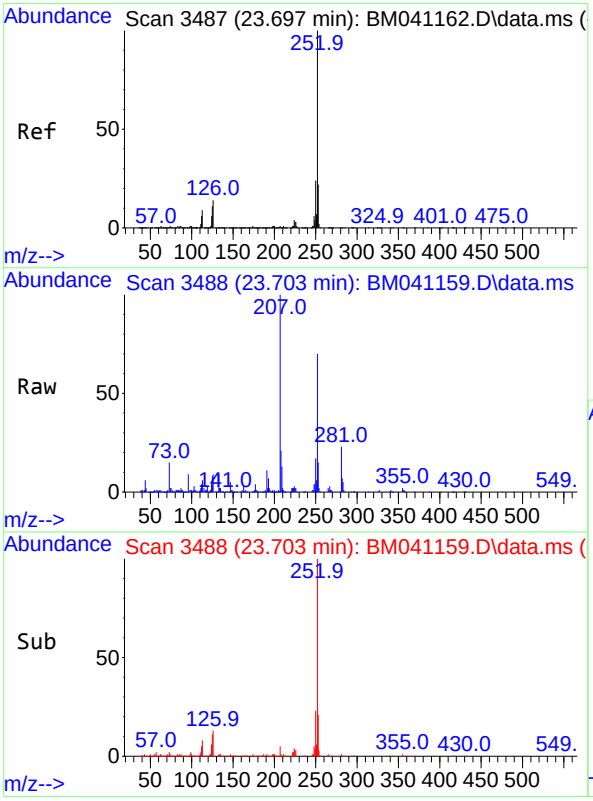
Ion	Ratio	Lower	Upper
252	100		
253	21.0	17.4	26.0
125	10.8	7.6	11.4



Instrument :
BNA_M
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

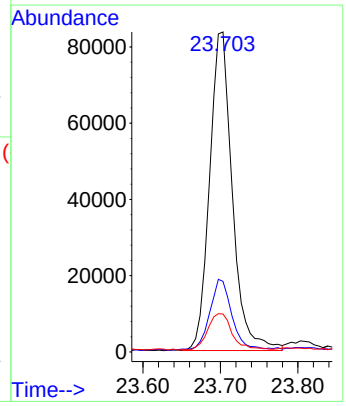
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

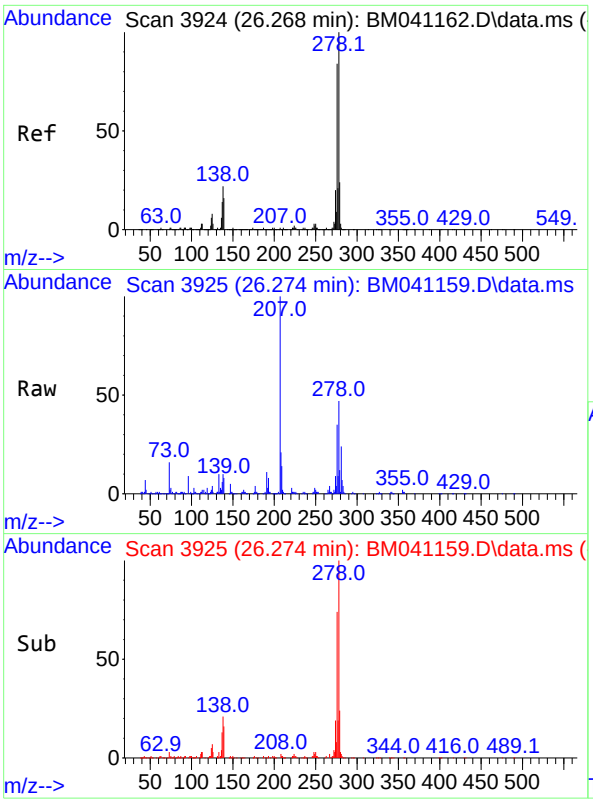


#90
Benzo(a)pyrene
Concen: 4.441 ng
RT: 23.703 min Scan# 3488
Delta R.T. 0.006 min
Lab File: BM041159.D
Acq: 28 Jul 2023 10:51

Tgt Ion:252 Resp: 170517

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.3	25.9
125	11.8	9.0	13.4

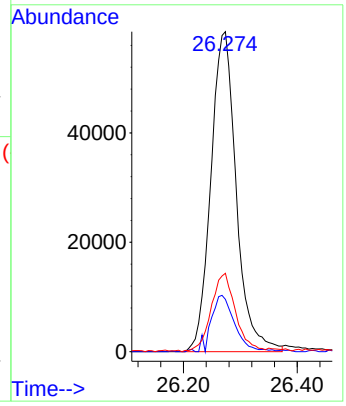




#91
Dibenzo(a,h)anthracene
Concen: 4.407 ng
RT: 26.274 min Scan# 3
Delta R.T. 0.006 min
Lab File: BM041159.D
Acq: 28 Jul 2023 10:51

Tgt Ion:278 Resp: 18178

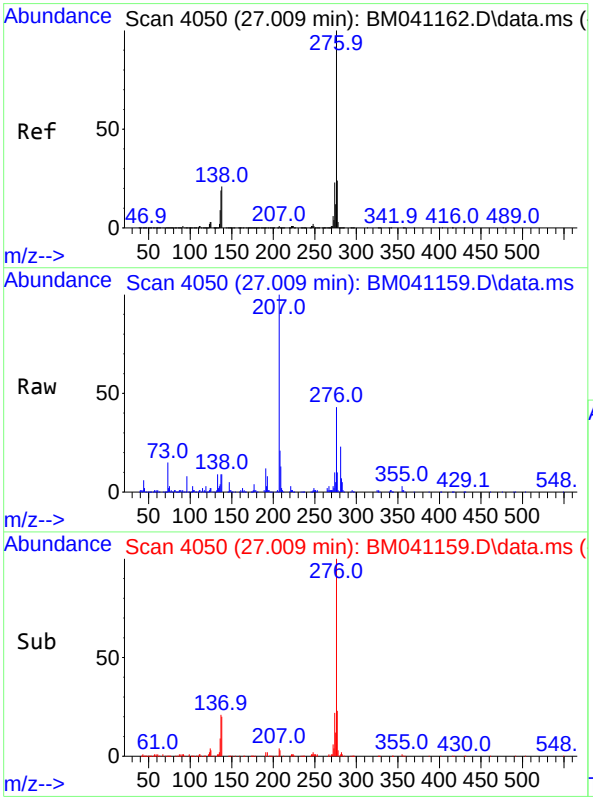
Ion	Ratio	Lower	Upper
278	100		
139	16.3	12.7	19.1
279	24.5	19.1	28.7



Instrument :
BNA_M
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

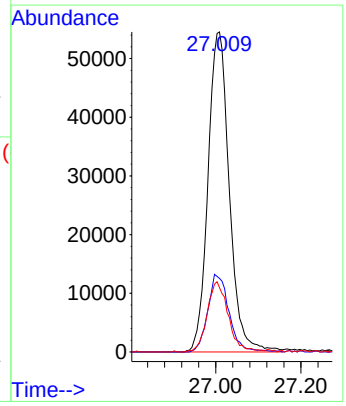
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023



#92
Benzo(g,h,i)perylene
Concen: 4.690 ng
RT: 27.009 min Scan# 4050
Delta R.T. -0.000 min
Lab File: BM041159.D
Acq: 28 Jul 2023 10:51

Tgt Ion:276 Resp: 189302

Ion	Ratio	Lower	Upper
276	100		
277	23.0	19.1	28.7
138	20.1	17.1	25.7



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM072823\
Data File : BM041160.D
Acq On : 28 Jul 2023 11:29
Operator : MA/JU
Sample : SSTDICC010
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 29 00:03:52 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 28 23:54:24 2023
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.804	152	156440	20.000	ng		0.00
21) Naphthalene-d8	10.610	136	591141	20.000	ng		0.00
39) Acenaphthene-d10	14.468	164	321577	20.000	ng		0.00
64) Phenanthrene-d10	17.227	188	647514	20.000	ng		0.00
76) Chrysene-d12	21.427	240	616295	20.000	ng		0.00
86) Perylene-d12	23.803	264	703039	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.369	112	217719	20.800	ng		0.00
7) Phenol-d6	6.981	99	275742	20.323	ng		0.00
23) Nitrobenzene-d5	8.981	82	248072	19.516	ng		0.00
42) 2,4,6-Tribromophenol	15.968	330	82848	18.214	ng		0.00
45) 2-Fluorobiphenyl	13.086	172	496257	19.494	ng		0.00
79) Terphenyl-d14	19.862	244	633361	18.581	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.269	88	47512	10.611	ng		97
3) Pyridine	3.681	79	117064	9.974	ng		98
4) n-Nitrosodimethylamine	3.593	42	55725	10.234	ng	#	96
6) Aniline	7.140	93	160334	10.098	ng		99
8) 2-Chlorophenol	7.369	128	105184	10.294	ng		99
9) Benzaldehyde	6.957	77	84915	11.848	ng		97
10) Phenol	7.004	94	134331	10.251	ng		99
11) bis(2-Chloroethyl)ether	7.239	93	110737	10.439	ng		99
12) 1,3-Dichlorobenzene	7.692	146	116903	10.510	ng		99
13) 1,4-Dichlorobenzene	7.839	146	117423	10.503	ng		100
14) 1,2-Dichlorobenzene	8.157	146	112955	10.537	ng		98
15) Benzyl Alcohol	8.063	79	78354	9.145	ng		97
16) 2,2'-oxybis(1-Chloropr...	8.345	45	146753m	10.384	ng		
17) 2-Methylphenol	8.263	107	88887	9.928	ng		99
18) Hexachloroethane	8.875	117	41543	9.981	ng		97
19) n-Nitroso-di-n-propyla...	8.622	70	81112	9.842	ng		99
20) 3+4-Methylphenols	8.592	107	119191	9.957	ng		96
22) Acetophenone	8.645	105	151762	9.694	ng	#	98
24) Nitrobenzene	9.022	77	126983	9.878	ng		95
25) Isophorone	9.545	82	201531	9.340	ng		100
26) 2-Nitrophenol	9.733	139	43749	8.706	ng		99
27) 2,4-Dimethylphenol	9.798	122	85842	9.708	ng		99
28) bis(2-Chloroethoxy)met...	10.033	93	132375	9.794	ng		99
29) 2,4-Dichlorophenol	10.269	162	84377	9.462	ng		96
30) 1,2,4-Trichlorobenzene	10.475	180	96856	9.831	ng		96
31) Naphthalene	10.663	128	321358	10.018	ng		99
32) Benzoic acid	9.898	122	34969	11.636	ng		97
33) 4-Chloroaniline	10.798	127	123406	9.626	ng		99
34) Hexachlorobutadiene	10.933	225	56834	9.591	ng		96
35) Caprolactam	11.580	113	21055m	8.162	ng		
36) 4-Chloro-3-methylphenol	11.922	107	87777	9.352	ng		98
37) 2-Methylnaphthalene	12.280	142	211657	9.787	ng		98
38) 1-Methylnaphthalene	12.504	142	198014	9.783	ng		98
40) 1,2,4,5-Tetrachloroben...	12.651	216	102464	9.813	ng		99
41) Hexachlorocyclopentadiene	12.616	237	42768	7.742	ng		98
43) 2,4,6-Trichlorophenol	12.904	196	62645	9.360	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM072823\
Data File : BM041160.D
Acq On : 28 Jul 2023 11:29
Operator : MA/JU
Sample : SSTDICC010
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

Quant Time: Jul 29 00:03:52 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 28 23:54:24 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	12.974	196	73138	9.442	ng		97
46) 1,1'-Biphenyl	13.298	154	257755	9.887	ng		99
47) 2-Chloronaphthalene	13.345	162	192927	9.911	ng		99
48) 2-Nitroaniline	13.569	65	53136	8.552	ng		99
49) Acenaphthylene	14.192	152	303860	9.671	ng		99
50) Dimethylphthalate	13.933	163	235376	9.730	ng		99
51) 2,6-Dinitrotoluene	14.063	165	46437	9.265	ng		95
52) Acenaphthene	14.533	154	185317	9.791	ng		97
53) 3-Nitroaniline	14.404	138	44307	9.807	ng		97
54) 2,4-Dinitrophenol	14.616	184	19018	11.044	ng		98
55) Dibenzofuran	14.868	168	306592	9.928	ng		100
56) 4-Nitrophenol	14.716	139	30771	7.366	ng		95
57) 2,4-Dinitrotoluene	14.863	165	54771	9.897	ng	#	87
58) Fluorene	15.521	166	234406	9.622	ng		98
59) 2,3,4,6-Tetrachlorophenol	15.104	232	59088	9.420	ng		98
60) Diethylphthalate	15.304	149	223035	9.534	ng		99
61) 4-Chlorophenyl-phenyle...	15.521	204	115928	9.496	ng		99
62) 4-Nitroaniline	15.568	138	34529	10.049	ng		95
63) Azobenzene	15.815	77	241941	9.442	ng		99
65) 4,6-Dinitro-2-methylph...	15.621	198	28763	7.333	ng		89
66) n-Nitrosodiphenylamine	15.739	169	196123	9.739	ng		99
67) 4-Bromophenyl-phenylether	16.421	248	67812	9.552	ng		99
68) Hexachlorobenzene	16.527	284	77144	9.772	ng		99
69) Atrazine	16.698	200	53200	10.059	ng		94
70) Pentachlorophenol	16.880	266	48477	8.868	ng		98
71) Phenanthrene	17.268	178	356825	9.918	ng		100
72) Anthracene	17.362	178	338834	9.523	ng		100
73) Carbazole	17.645	167	308071	9.566	ng		99
74) Di-n-butylphthalate	18.203	149	321260	8.828	ng		99
75) Fluoranthene	19.298	202	385618	9.541	ng		99
77) Benzidine	19.503	184	77945	9.237	ng		98
78) Pyrene	19.656	202	405917	9.418	ng		100
80) Butylbenzylphthalate	20.568	149	133067	8.455	ng		98
81) Benzo(a)anthracene	21.415	228	400978	9.597	ng		99
82) 3,3'-Dichlorobenzidine	21.356	252	125559	9.210	ng		99
83) Chrysene	21.468	228	396218	9.805	ng		99
84) Bis(2-ethylhexyl)phtha...	21.339	149	188904	9.697	ng		99
85) Di-n-octyl phthalate	22.256	149	320400	8.055	ng		98
87) Indeno(1,2,3-cd)pyrene	26.250	276	487672	9.435	ng		100
88) Benzo(b)fluoranthene	23.080	252	399916	9.575	ng		99
89) Benzo(k)fluoranthene	23.127	252	400318	9.370	ng		99
90) Benzo(a)pyrene	23.697	252	372093	9.272	ng		99
91) Dibenzo(a,h)anthracene	26.262	278	405132	9.397	ng		98
92) Benzo(g,h,i)perylene	27.003	276	408012	9.672	ng		99

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

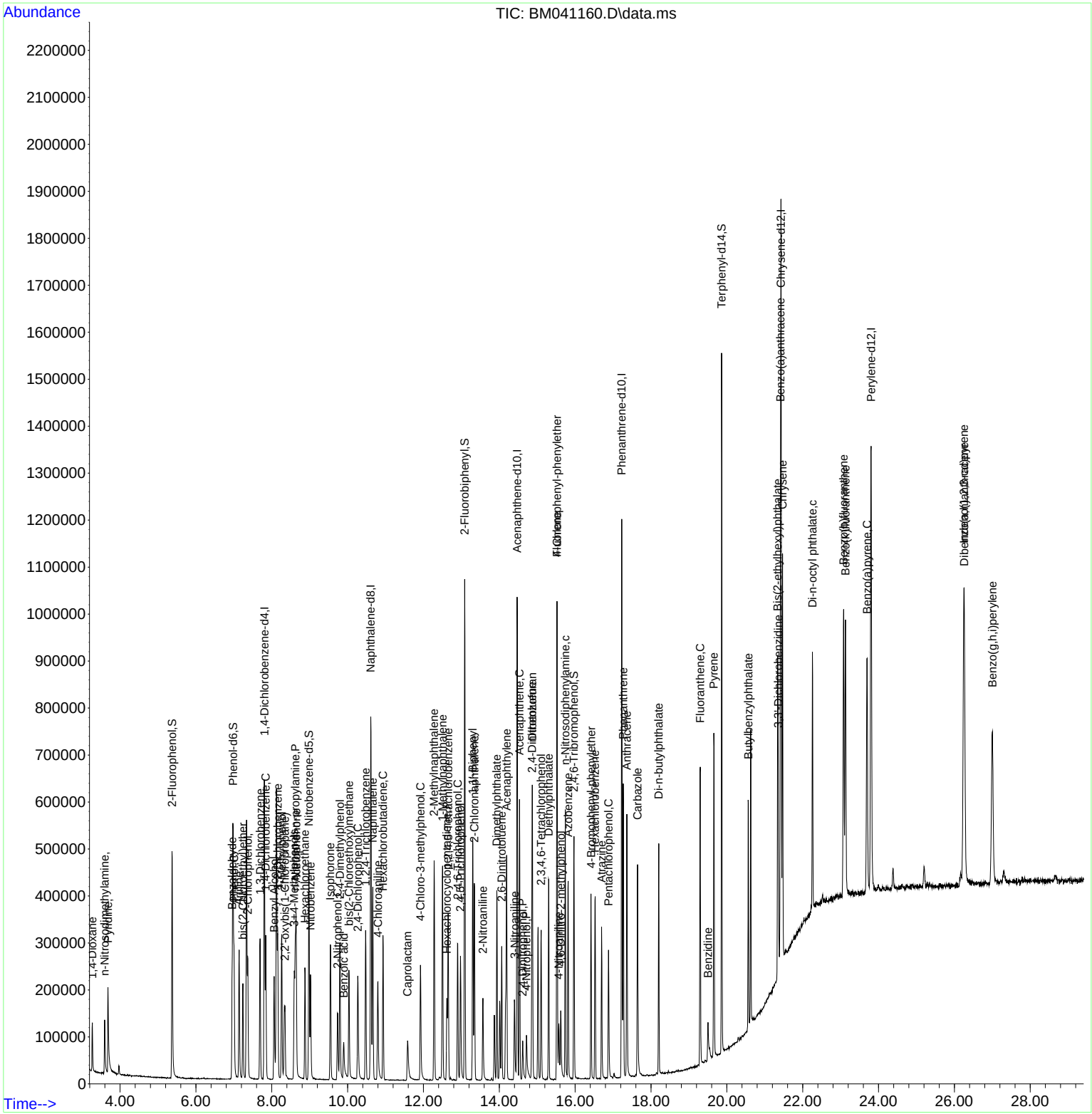
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM072823\
Data File : BM041160.D
Acq On : 28 Jul 2023 11:29
Operator : MA/JU
Sample : SSTDICC010
Misc :
ALS Vial : 4 Sample Multiplier: 1

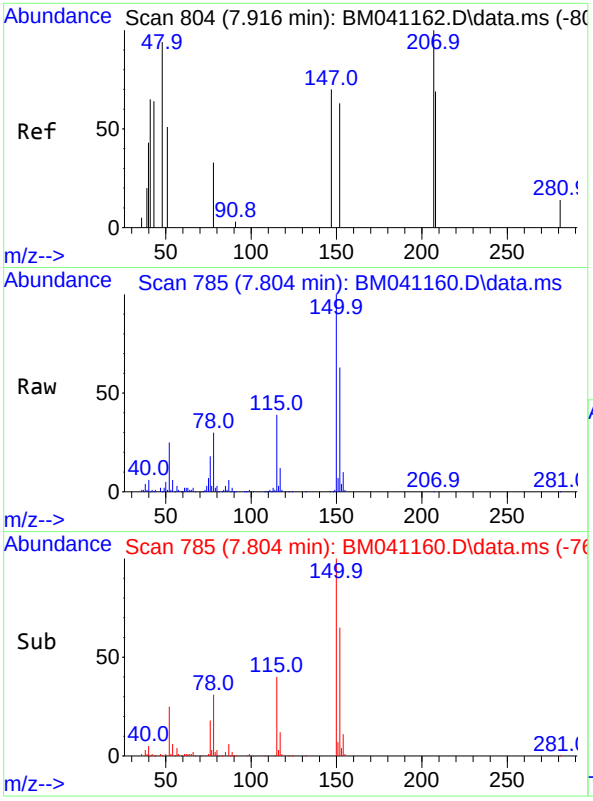
Quant Time: Jul 29 00:03:52 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 28 23:54:24 2023
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

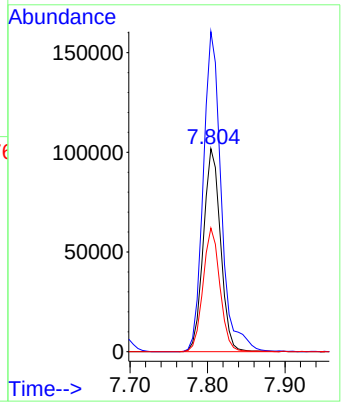




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.804 min Scan# 7
Delta R.T. 0.000 min
Lab File: BM041160.D
Acq: 28 Jul 2023 11:29

Tgt Ion:152 Resp: 15644

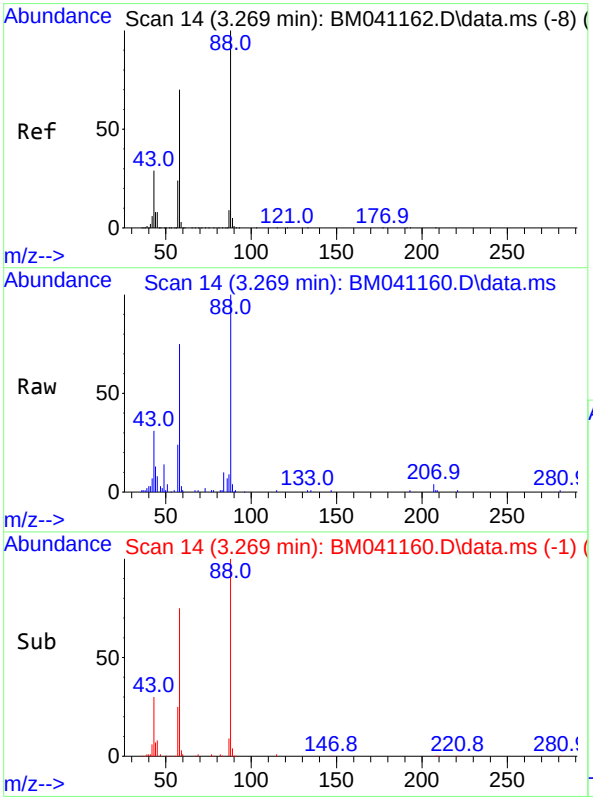
Ion	Ratio	Lower	Upper
152	100		
150	157.6	125.5	188.3
115	60.9	48.0	72.0



Instrument :
BNA_M
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

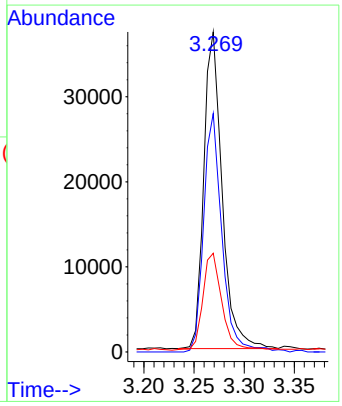
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

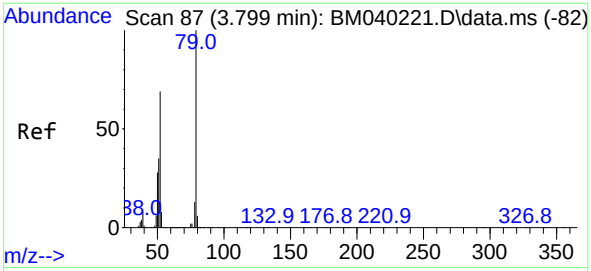


#2
1,4-Dioxane
Concen: 10.611 ng
RT: 3.269 min Scan# 14
Delta R.T. -0.000 min
Lab File: BM041160.D
Acq: 28 Jul 2023 11:29

Tgt Ion: 88 Resp: 47512

Ion	Ratio	Lower	Upper
88	100		
58	75.3	58.2	87.4
43	31.9	24.4	36.6





#3
Pyridine
Concen: 9.974 ng
RT: 3.681 min Scan# 84
Delta R.T. 0.006 min
Lab File: BM041160.D
Acq: 28 Jul 2023 11:29

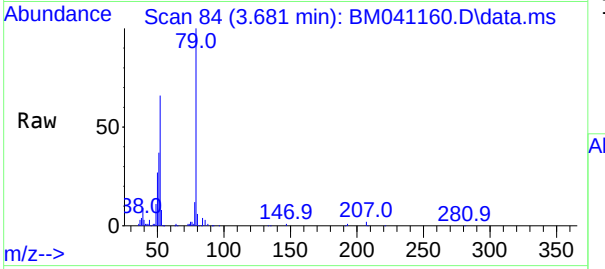
Instrument :
BNA_M
ClientSampleId :
SSTDICC010

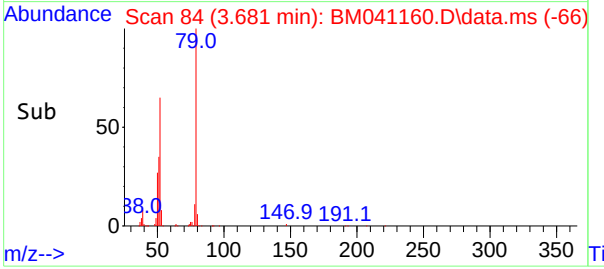
Tgt Ion: 79 Resp: 11706

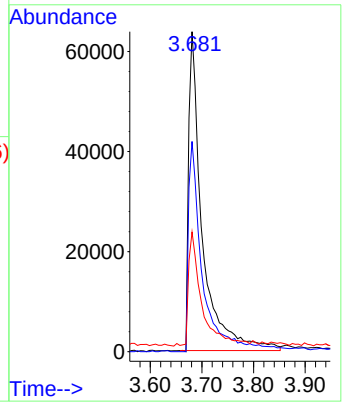
Ion	Ratio	Lower	Upper
79	100		
52	65.7	52.1	78.1
51	37.4	27.5	41.3

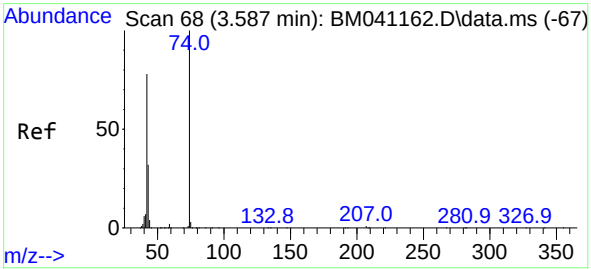
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023





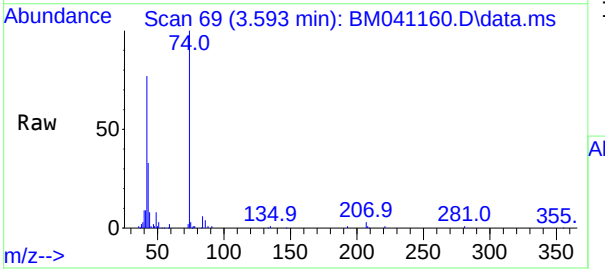


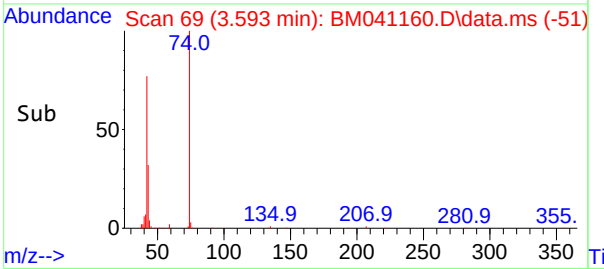


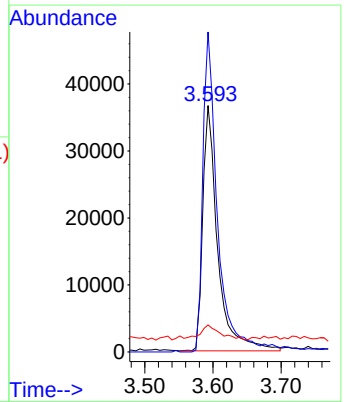
#4
n-Nitrosodimethylamine
Concen: 10.234 ng
RT: 3.593 min Scan# 69
Delta R.T. 0.006 min
Lab File: BM041160.D
Acq: 28 Jul 2023 11:29

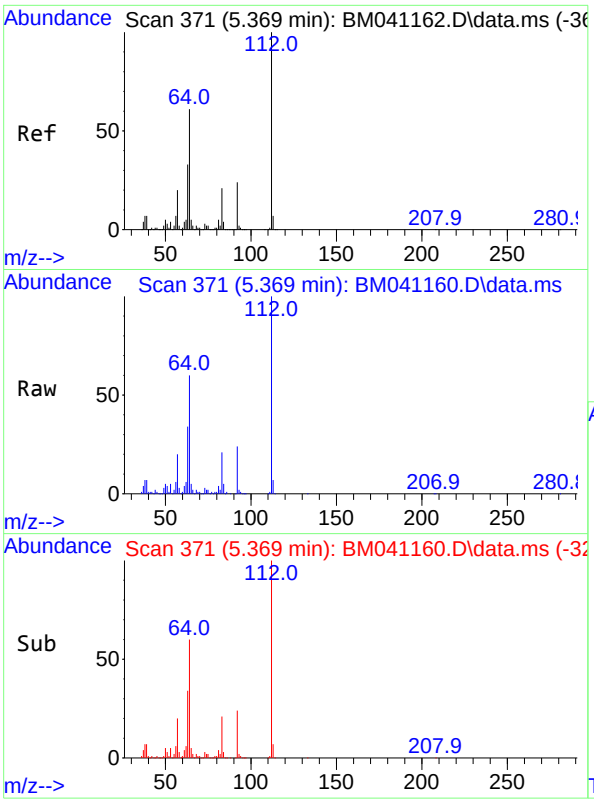
Tgt Ion: 42 Resp: 55725

Ion	Ratio	Lower	Upper
42	100		
74	129.8	100.8	151.2
44	11.0	5.0	7.4#





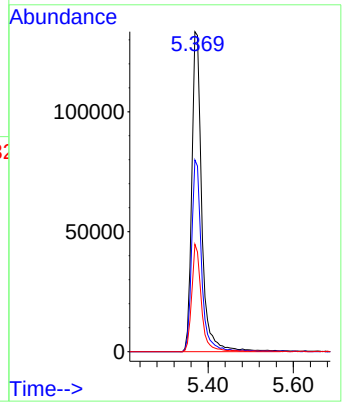




#5
2-Fluorophenol
Concen: 20.800 ng
RT: 5.369 min Scan# 3
Delta R.T. -0.000 min
Lab File: BM041160.D
Acq: 28 Jul 2023 11:29

Tgt Ion:112 Resp: 21771

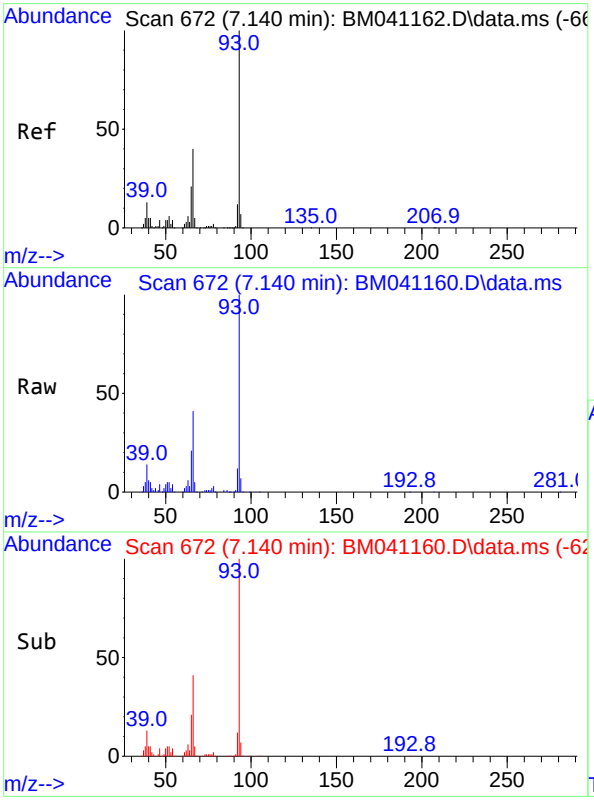
Ion	Ratio	Lower	Upper
112	100		
64	59.9	48.5	72.7
63	33.5	26.5	39.7



Instrument :
BNA_M
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

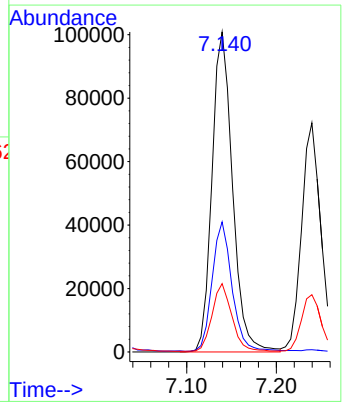
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

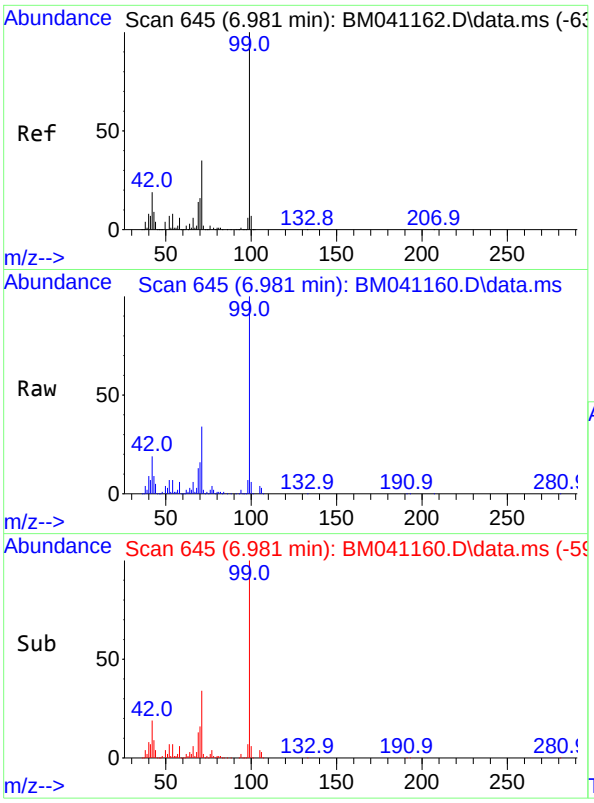


#6
Aniline
Concen: 10.098 ng
RT: 7.140 min Scan# 672
Delta R.T. -0.000 min
Lab File: BM041160.D
Acq: 28 Jul 2023 11:29

Tgt Ion: 93 Resp: 160334

Ion	Ratio	Lower	Upper
93	100		
66	40.7	32.0	48.0
65	21.3	16.6	24.8

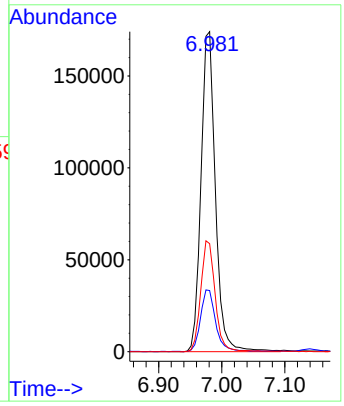




#7
Phenol-d6
Concen: 20.323 ng
RT: 6.981 min Scan# 64
Delta R.T. -0.000 min
Lab File: BM041160.D
Acq: 28 Jul 2023 11:29

Tgt Ion: 99 Resp: 27574

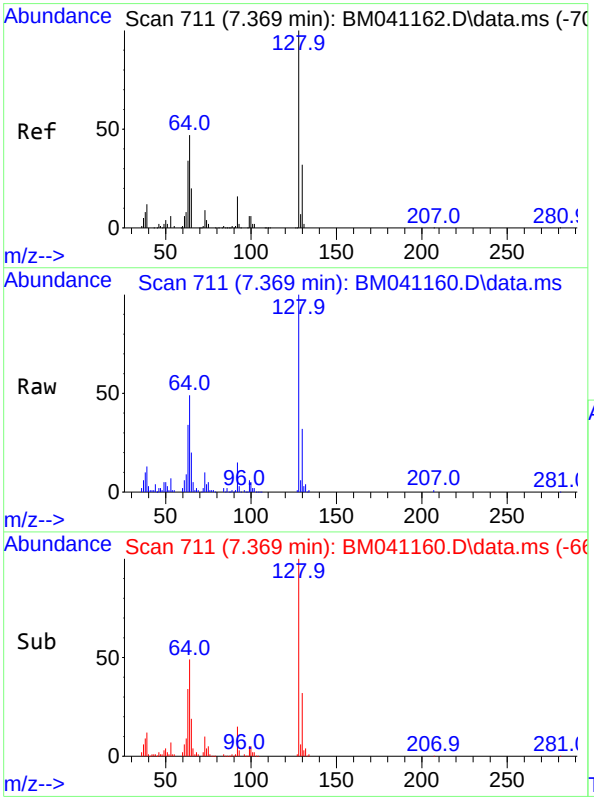
Ion	Ratio	Lower	Upper
99	100		
42	19.1	15.4	23.0
71	33.8	28.2	42.4



Instrument :
BNA_M
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

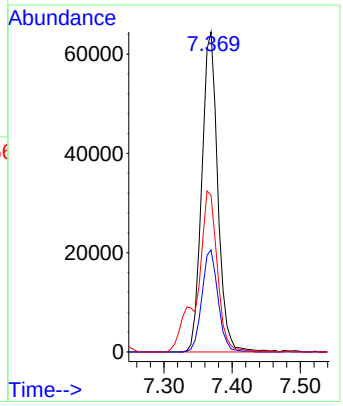
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

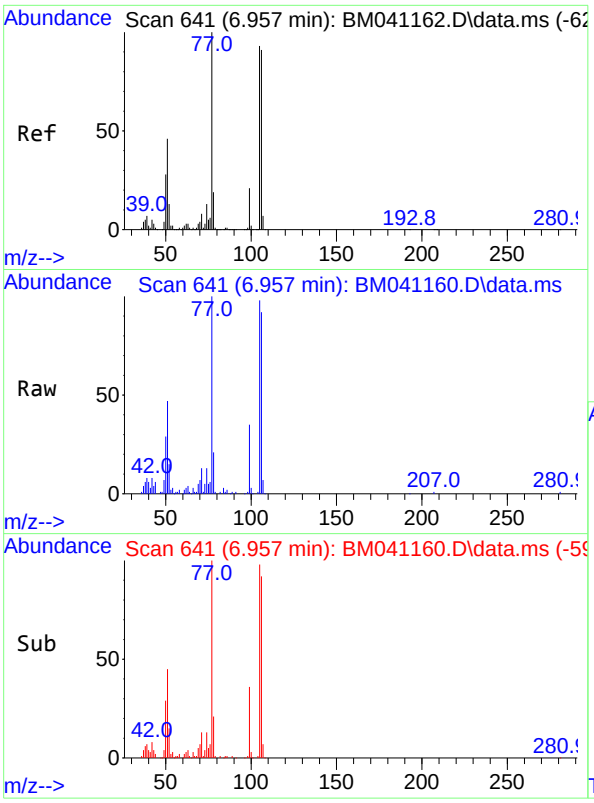


#8
2-Chlorophenol
Concen: 10.294 ng
RT: 7.369 min Scan# 711
Delta R.T. -0.000 min
Lab File: BM041160.D
Acq: 28 Jul 2023 11:29

Tgt Ion:128 Resp: 105184

Ion	Ratio	Lower	Upper
128	100		
130	31.9	12.3	52.3
64	48.9	29.3	69.3

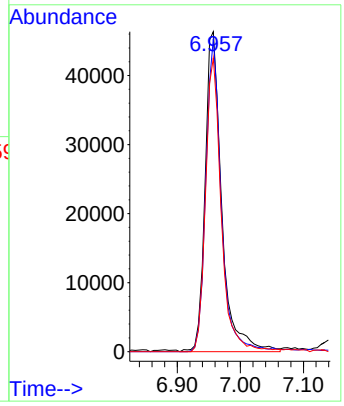




#9
Benzaldehyde
Concen: 11.848 ng
RT: 6.957 min Scan# 64
Delta R.T. 0.000 min
Lab File: BM041160.D
Acq: 28 Jul 2023 11:29

Tgt Ion: 77 Resp: 8491

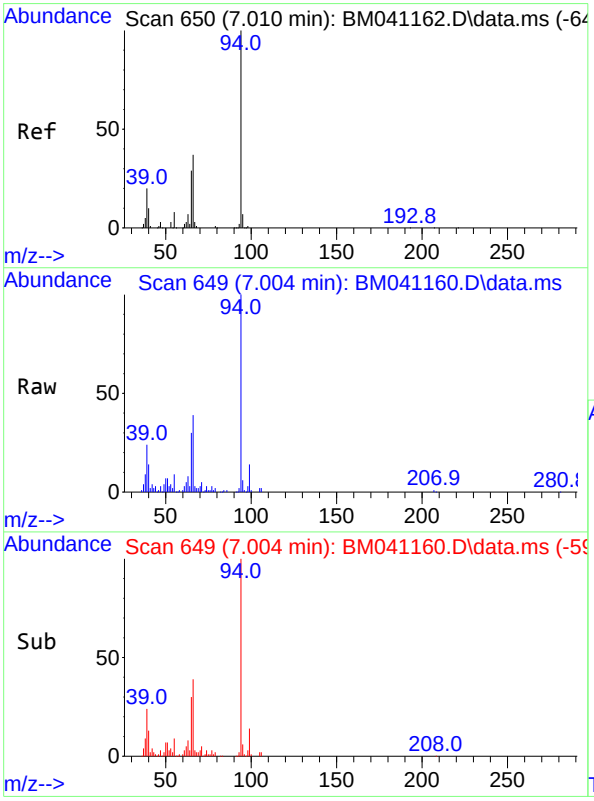
Ion	Ratio	Lower	Upper
77	100		
105	97.8	72.8	112.8
106	91.8	70.8	110.8



Instrument :
BNA_M
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

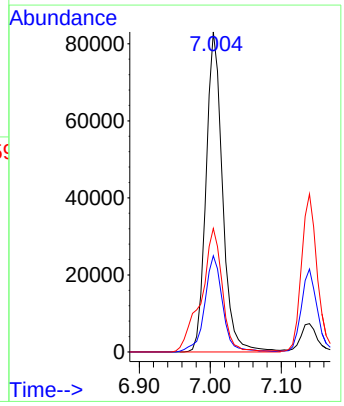
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

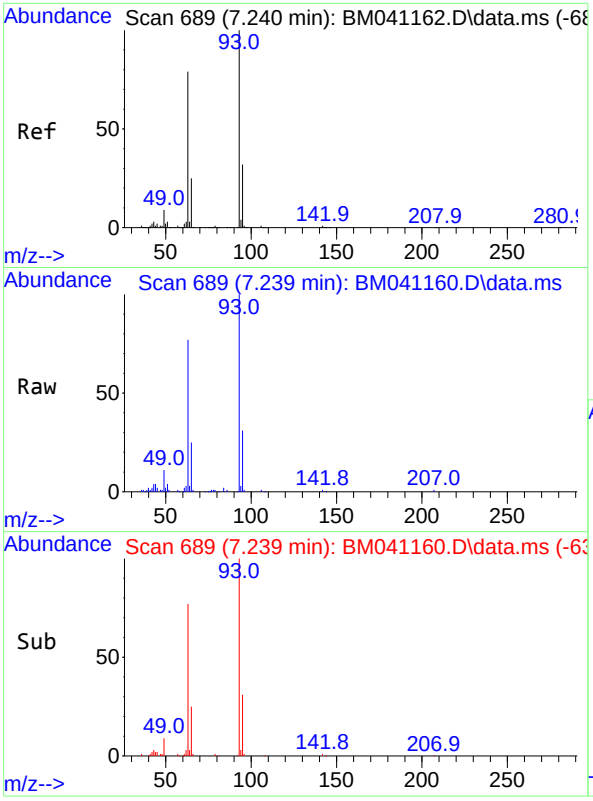


#10
Phenol
Concen: 10.251 ng
RT: 7.004 min Scan# 649
Delta R.T. -0.006 min
Lab File: BM041160.D
Acq: 28 Jul 2023 11:29

Tgt Ion: 94 Resp: 134331

Ion	Ratio	Lower	Upper
94	100		
65	30.1	9.5	49.5
66	38.6	18.0	58.0

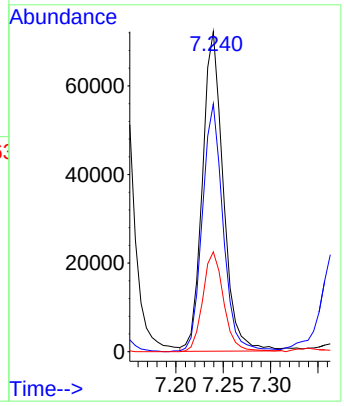




#11
bis(2-Chloroethyl)ether
Concen: 10.439 ng
RT: 7.239 min Scan# 6
Delta R.T. -0.000 min
Lab File: BM041160.D
Acq: 28 Jul 2023 11:29

Tgt Ion: 93 Resp: 11073

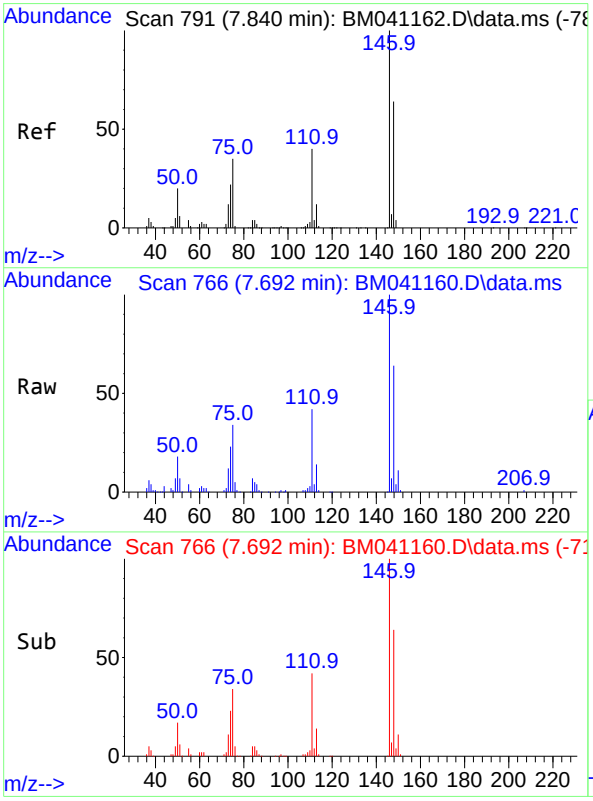
Ion	Ratio	Lower	Upper
93	100		
63	77.4	58.8	98.8
95	31.2	11.8	51.8



Instrument :
BNA_M
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

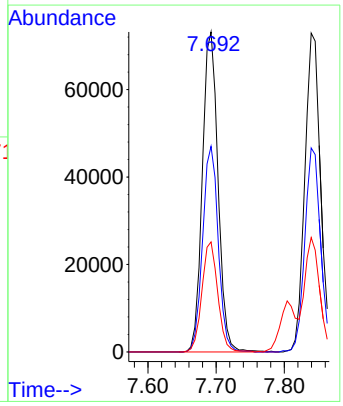
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

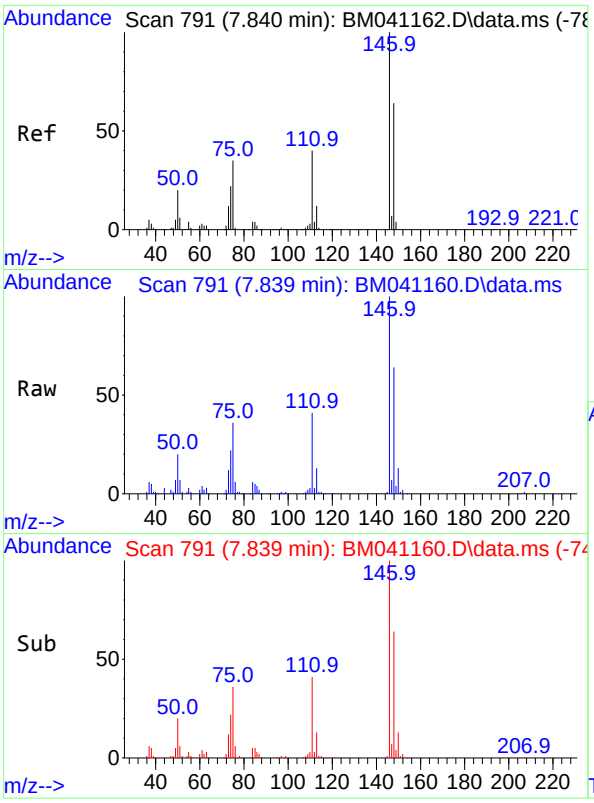


#12
1,3-Dichlorobenzene
Concen: 10.510 ng
RT: 7.692 min Scan# 766
Delta R.T. -0.000 min
Lab File: BM041160.D
Acq: 28 Jul 2023 11:29

Tgt Ion:146 Resp: 116903

Ion	Ratio	Lower	Upper
146	100		
148	64.2	51.9	77.9
75	34.4	28.3	42.5

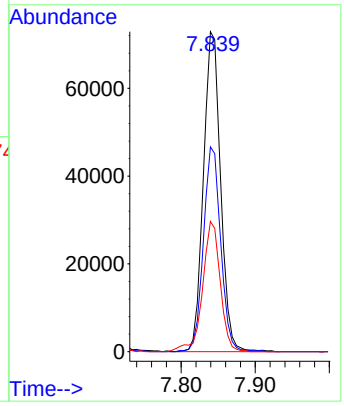




#13
1,4-Dichlorobenzene
Concen: 10.503 ng
RT: 7.839 min Scan# 7
Delta R.T. -0.000 min
Lab File: BM041160.D
Acq: 28 Jul 2023 11:29

Tgt Ion:146 Resp: 11742

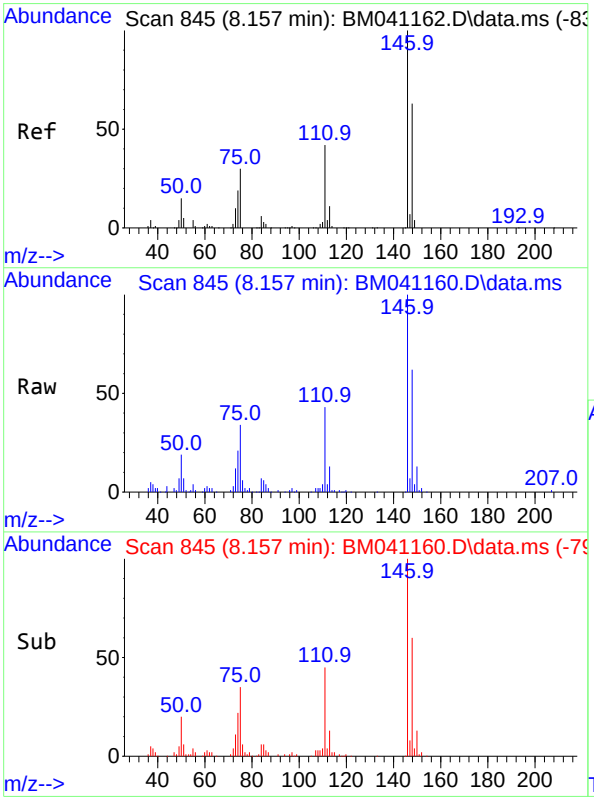
Ion	Ratio	Lower	Upper
146	100		
148	64.0	51.4	77.0
111	40.7	32.4	48.6



Instrument :
BNA_M
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

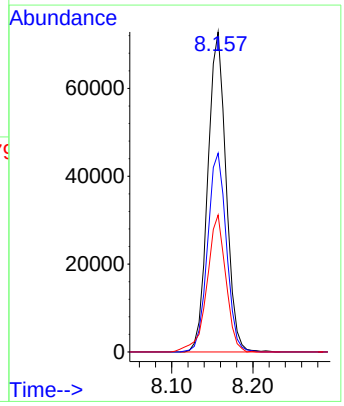
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

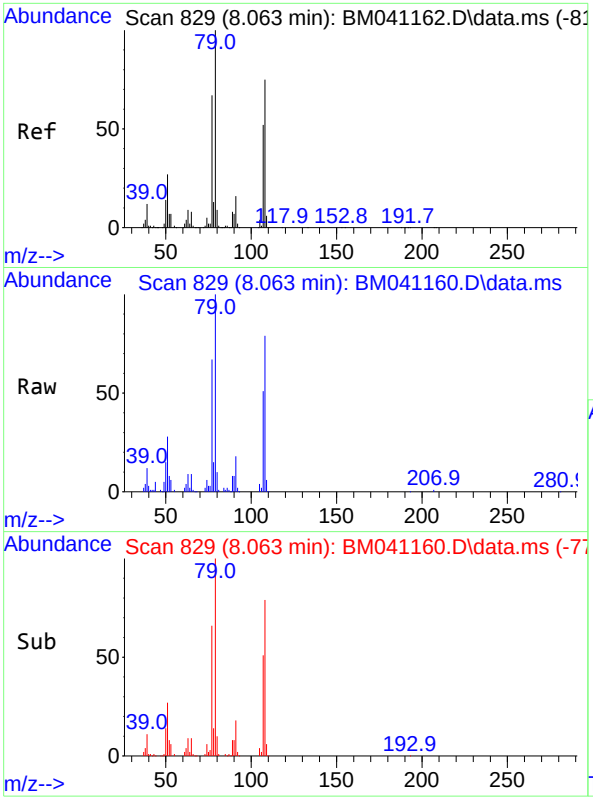


#14
1,2-Dichlorobenzene
Concen: 10.537 ng
RT: 8.157 min Scan# 845
Delta R.T. -0.000 min
Lab File: BM041160.D
Acq: 28 Jul 2023 11:29

Tgt Ion:146 Resp: 112955

Ion	Ratio	Lower	Upper
146	100		
148	62.1	50.9	76.3
111	42.8	33.8	50.6

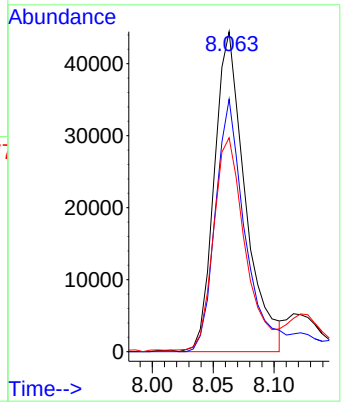




#15
Benzyl Alcohol
Concen: 9.145 ng
RT: 8.063 min Scan# 8
Delta R.T. -0.000 min
Lab File: BM041160.D
Acq: 28 Jul 2023 11:29

Tgt Ion: 79 Resp: 7835

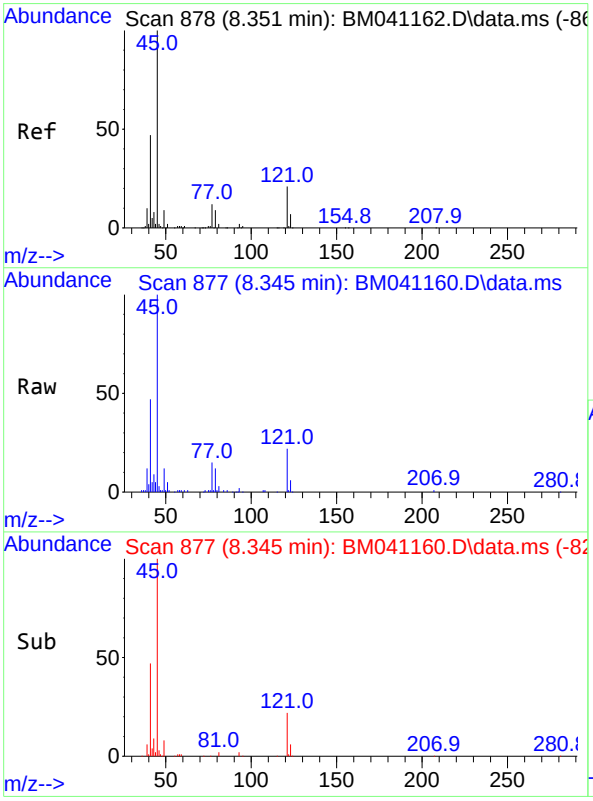
Ion	Ratio	Lower	Upper
79	100		
108	78.9	59.8	89.8
77	66.9	53.8	80.6



Instrument :
BNA_M
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

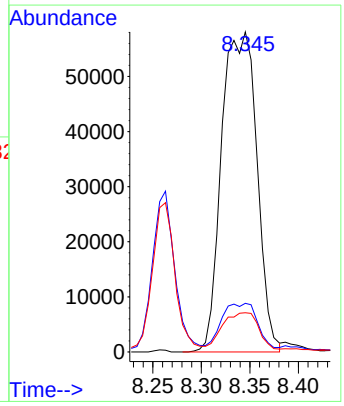
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

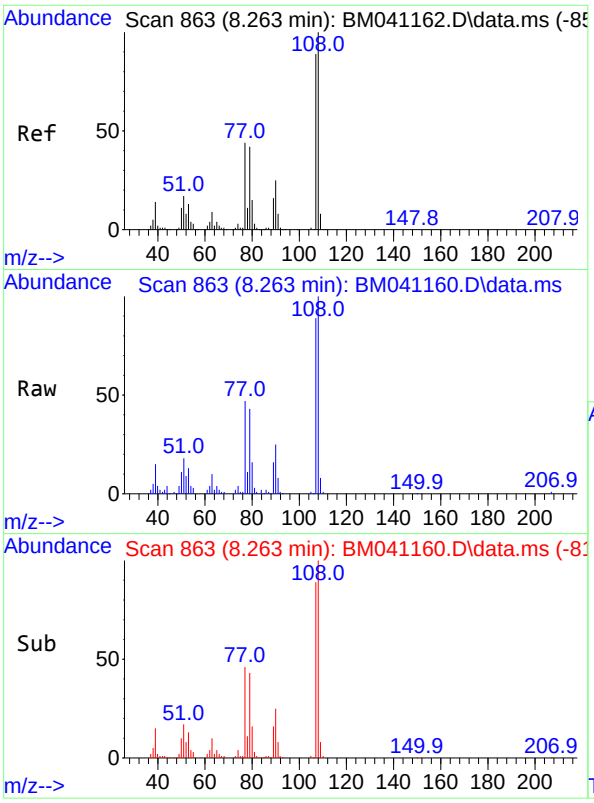


#16
2,2'-oxybis(1-Chloropropane)
Concen: 10.384 ng m
RT: 8.345 min Scan# 877
Delta R.T. -0.006 min
Lab File: BM041160.D
Acq: 28 Jul 2023 11:29

Tgt Ion: 45 Resp: 146753

Ion	Ratio	Lower	Upper
45	100		
77	15.2	0.0	34.5
79	12.3	0.0	32.1

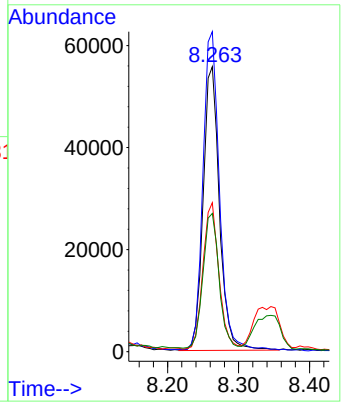




#17
2-Methylphenol
Concen: 9.928 ng
RT: 8.263 min Scan# 8
Delta R.T. -0.000 min
Lab File: BM041160.D
Acq: 28 Jul 2023 11:29

Tgt Ion:107 Resp: 8888

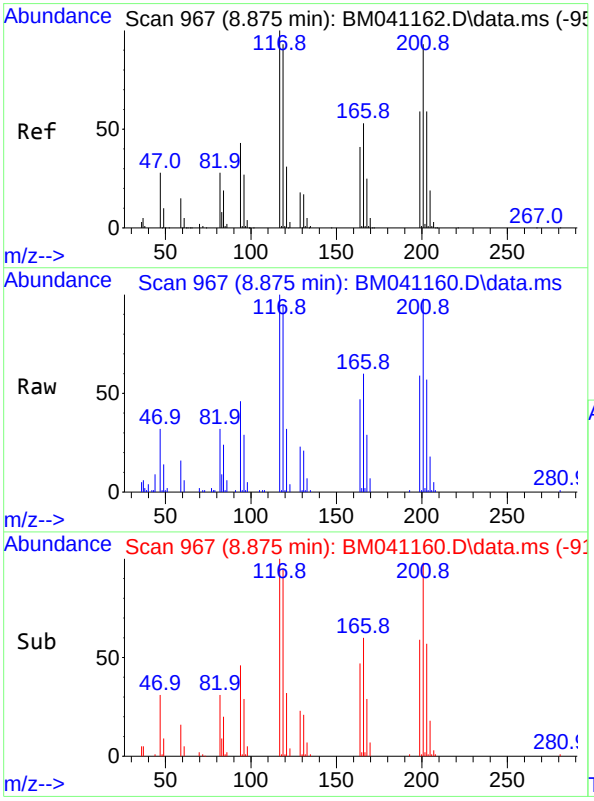
Ion	Ratio	Lower	Upper
107	100		
108	112.3	89.9	134.9
77	52.3	39.8	59.8
79	48.5	37.7	56.5



Instrument :
BNA_M
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

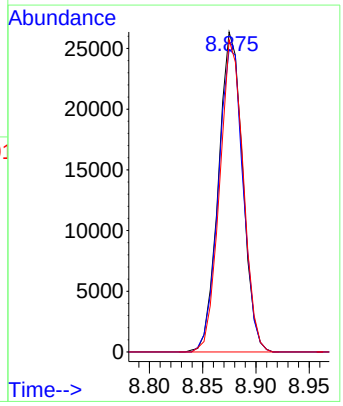
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

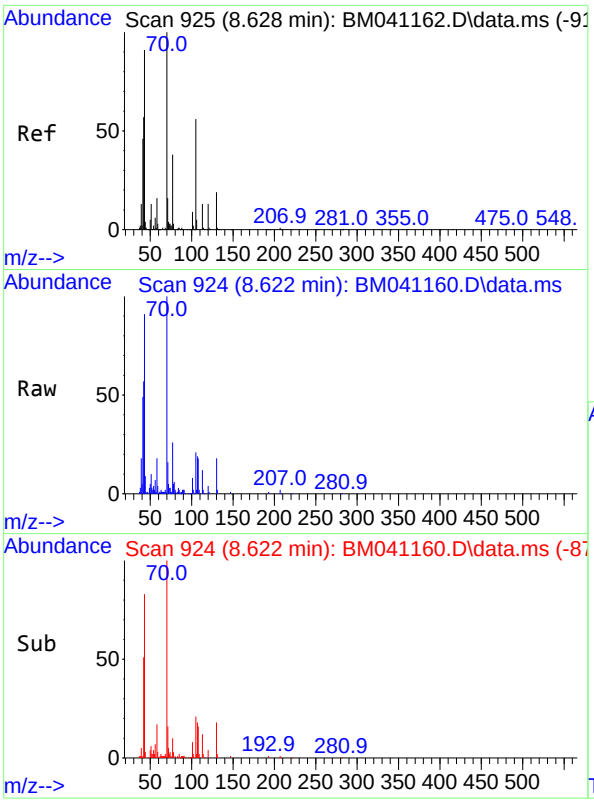


#18
Hexachloroethane
Concen: 9.981 ng
RT: 8.875 min Scan# 967
Delta R.T. -0.000 min
Lab File: BM041160.D
Acq: 28 Jul 2023 11:29

Tgt Ion:117 Resp: 41543

Ion	Ratio	Lower	Upper
117	100		
119	94.5	74.2	111.4
201	97.6	74.5	111.7

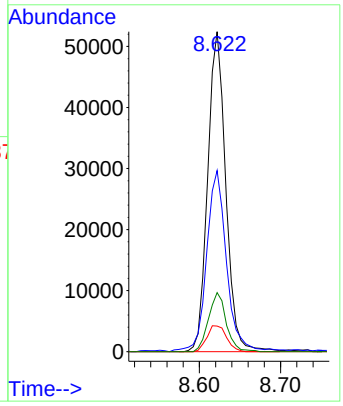




#19
n-Nitroso-di-n-propylamine
Concen: 9.842 ng
RT: 8.622 min Scan# 9
Delta R.T. -0.006 min
Lab File: BM041160.D
Acq: 28 Jul 2023 11:29

Tgt Ion: 70 Resp: 8111

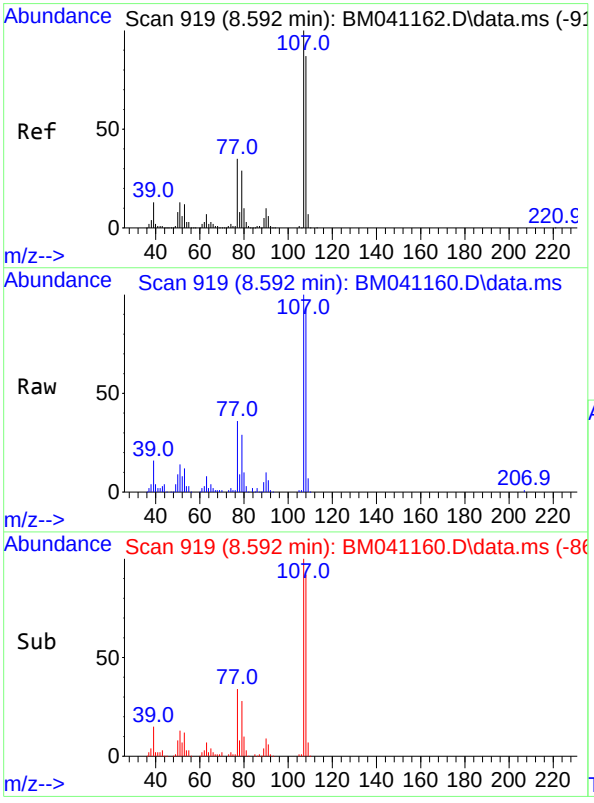
Ion	Ratio	Lower	Upper
70	100		
42	56.6	45.8	68.8
101	8.0	7.4	11.0
130	18.5	15.2	22.8



Instrument :
BNA_M
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

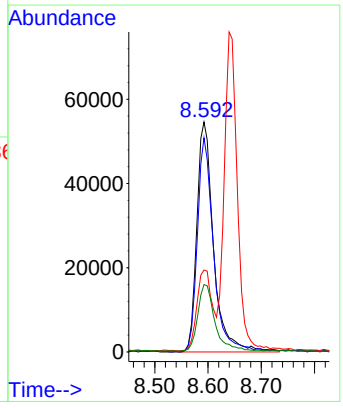
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

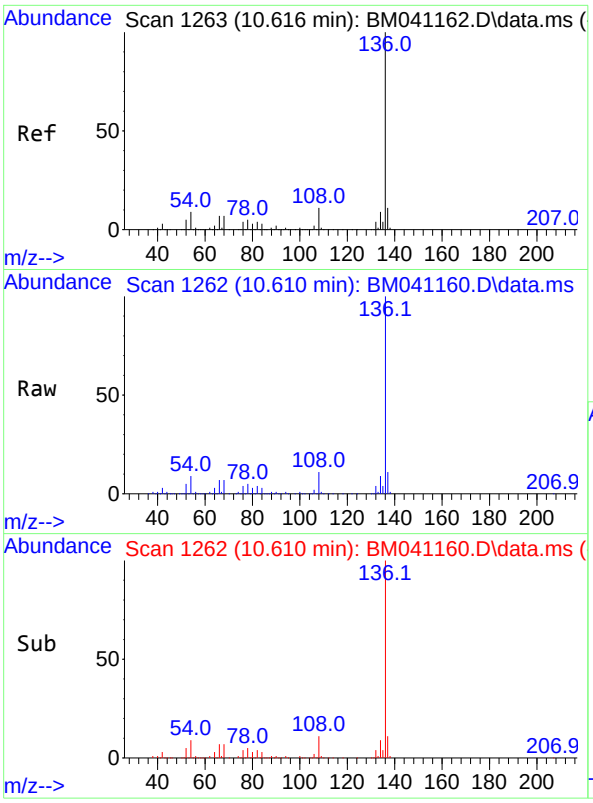


#20
3+4-Methylphenols
Concen: 9.957 ng
RT: 8.592 min Scan# 919
Delta R.T. -0.000 min
Lab File: BM041160.D
Acq: 28 Jul 2023 11:29

Tgt Ion:107 Resp: 119191

Ion	Ratio	Lower	Upper
107	100		
108	93.1	67.2	107.2
77	35.6	15.4	55.4
79	29.3	9.2	49.2

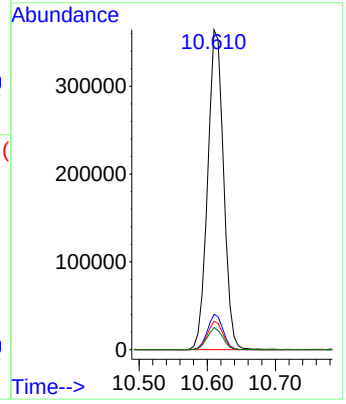




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.610 min Scan# 1
Delta R.T. -0.006 min
Lab File: BM041160.D
Acq: 28 Jul 2023 11:29

Tgt Ion:136 Resp: 59114

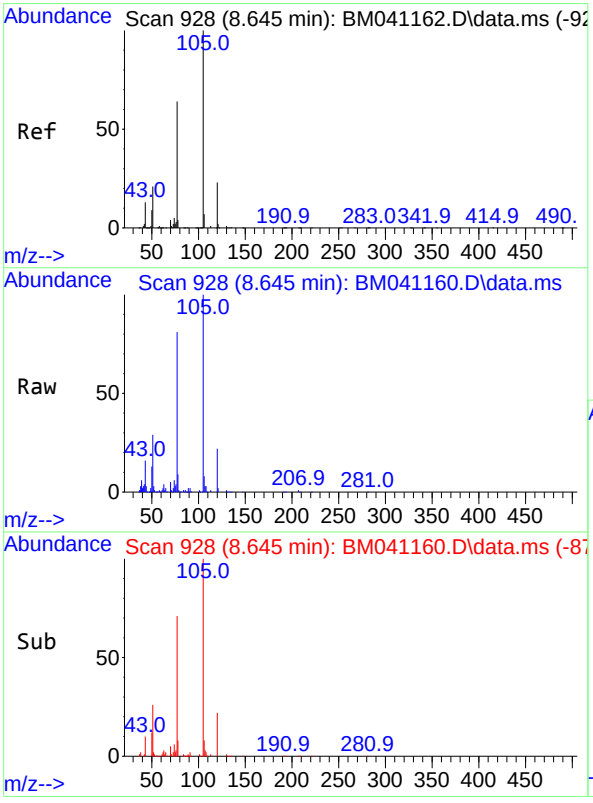
Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.8	13.2
54	8.9	6.9	10.3
68	6.9	5.4	8.2



Instrument :
BNA_M
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

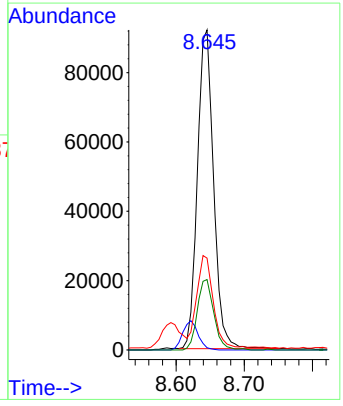
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

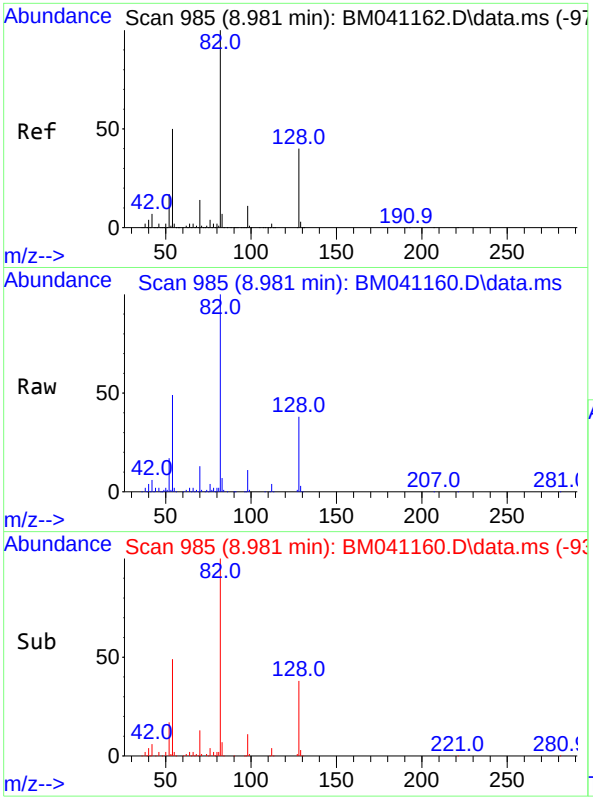


#22
Acetophenone
Concen: 9.694 ng
RT: 8.645 min Scan# 928
Delta R.T. -0.000 min
Lab File: BM041160.D
Acq: 28 Jul 2023 11:29

Tgt Ion:105 Resp: 151762

Ion	Ratio	Lower	Upper
105	100		
71	0.7	1.2	1.8#
51	28.7	22.0	33.0
120	22.0	18.0	27.0

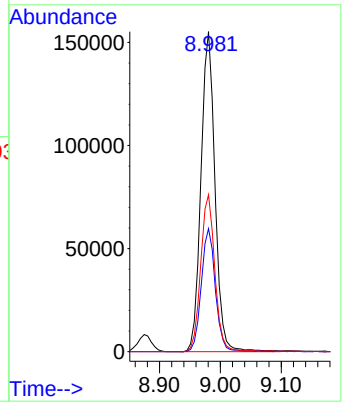




#23
Nitrobenzene-d5
Concen: 19.516 ng
RT: 8.981 min Scan# 9
Delta R.T. -0.000 min
Lab File: BM041160.D
Acq: 28 Jul 2023 11:29

Tgt Ion: 82 Resp: 24807

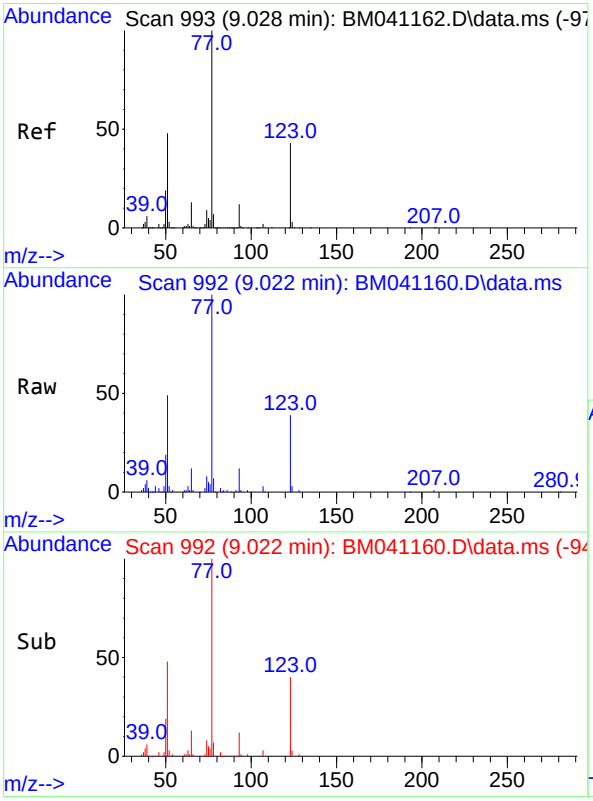
Ion	Ratio	Lower	Upper
82	100		
128	38.4	31.8	47.6
54	49.1	40.1	60.1



Instrument :
BNA_M
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

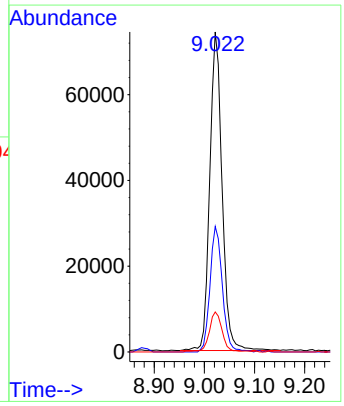
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

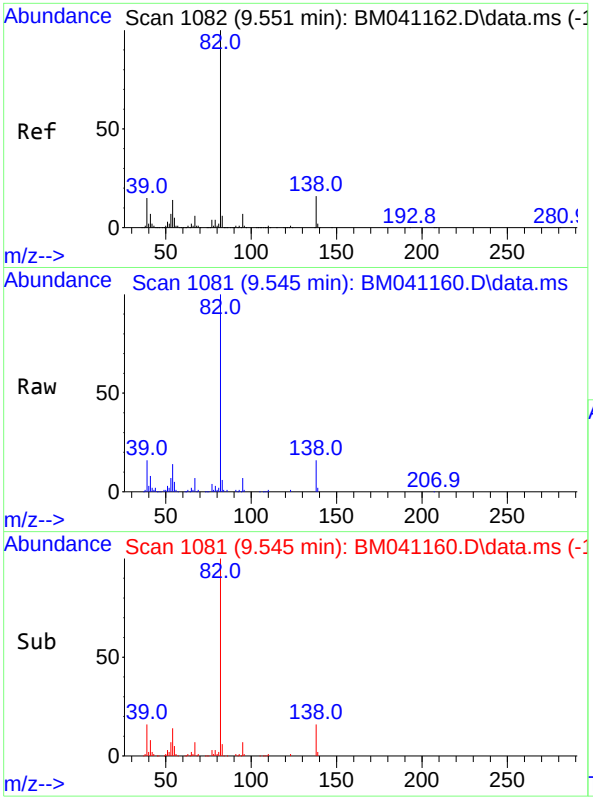


#24
Nitrobenzene
Concen: 9.878 ng
RT: 9.022 min Scan# 992
Delta R.T. -0.006 min
Lab File: BM041160.D
Acq: 28 Jul 2023 11:29

Tgt Ion: 77 Resp: 126983

Ion	Ratio	Lower	Upper
77	100		
123	39.2	34.2	51.2
65	12.5	10.7	16.1





#25
Isophorone
Concen: 9.340 ng
RT: 9.545 min Scan# 1
Delta R.T. -0.006 min
Lab File: BM041160.D
Acq: 28 Jul 2023 11:29

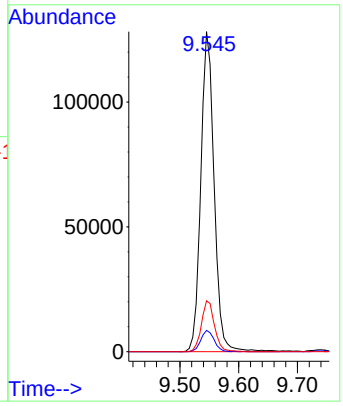
Tgt Ion: 82 Resp: 20153

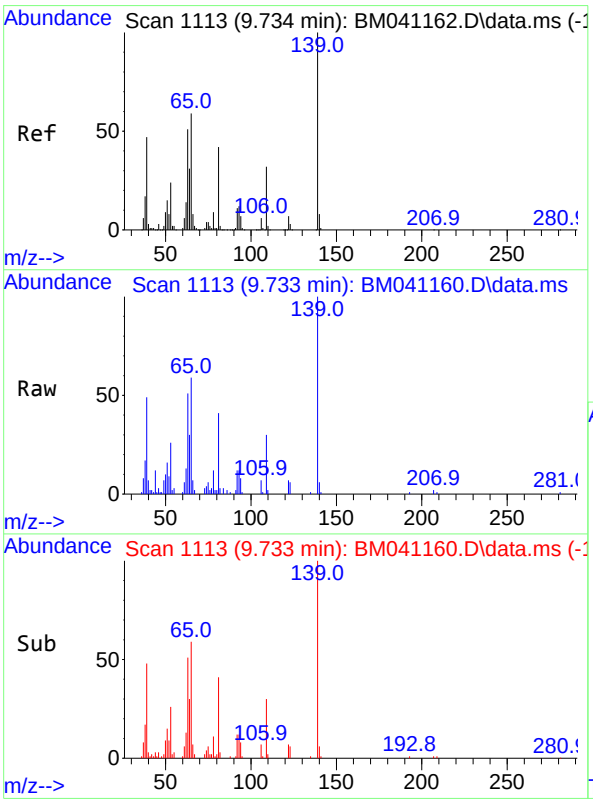
Ion	Ratio	Lower	Upper
82	100		
95	6.6	5.3	7.9
138	15.9	12.8	19.2

Instrument :
BNA_M
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

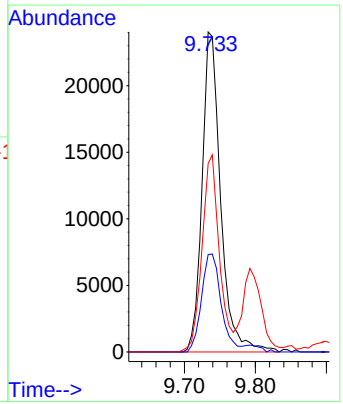


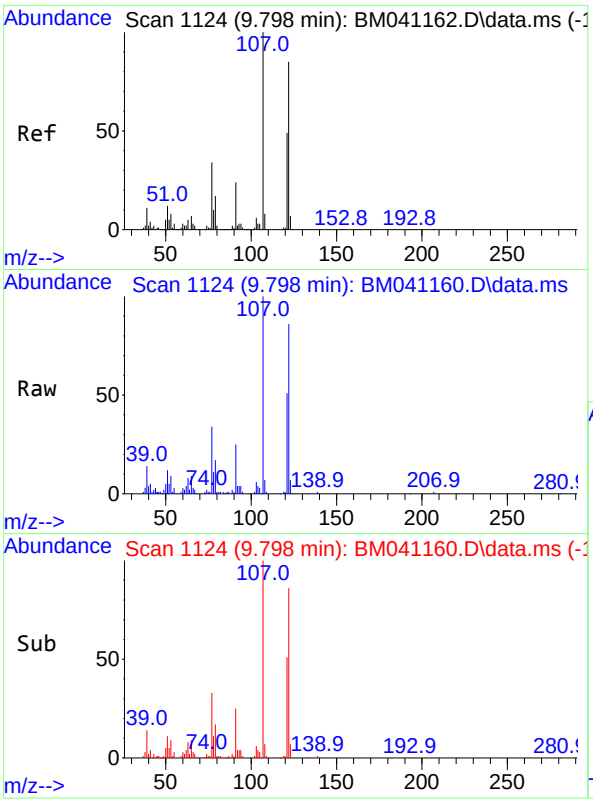


#26
2-Nitrophenol
Concen: 8.706 ng
RT: 9.733 min Scan# 1113
Delta R.T. -0.000 min
Lab File: BM041160.D
Acq: 28 Jul 2023 11:29

Tgt Ion:139 Resp: 43749

Ion	Ratio	Lower	Upper
139	100		
109	30.5	25.4	38.2
65	58.9	47.2	70.8

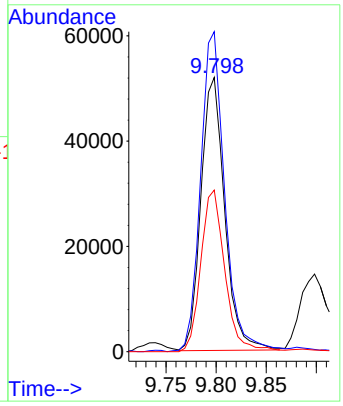




#27
2,4-Dimethylphenol
Concen: 9.708 ng
RT: 9.798 min Scan# 11
Delta R.T. -0.000 min
Lab File: BM041160.D
Acq: 28 Jul 2023 11:29

Tgt Ion:122 Resp: 8584

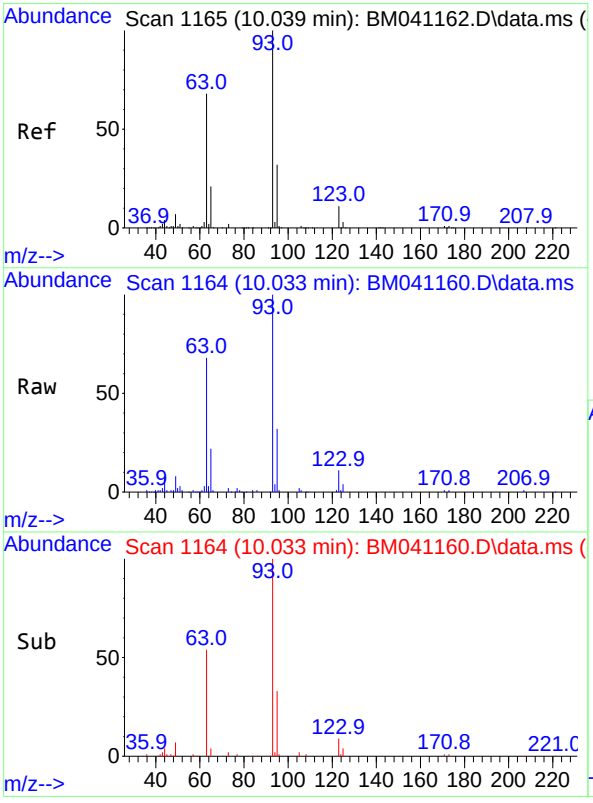
Ion	Ratio	Lower	Upper
122	100		
107	116.7	94.3	141.5
121	59.0	45.8	68.8



Instrument :
BNA_M
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

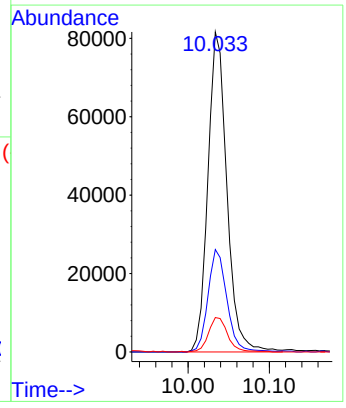
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

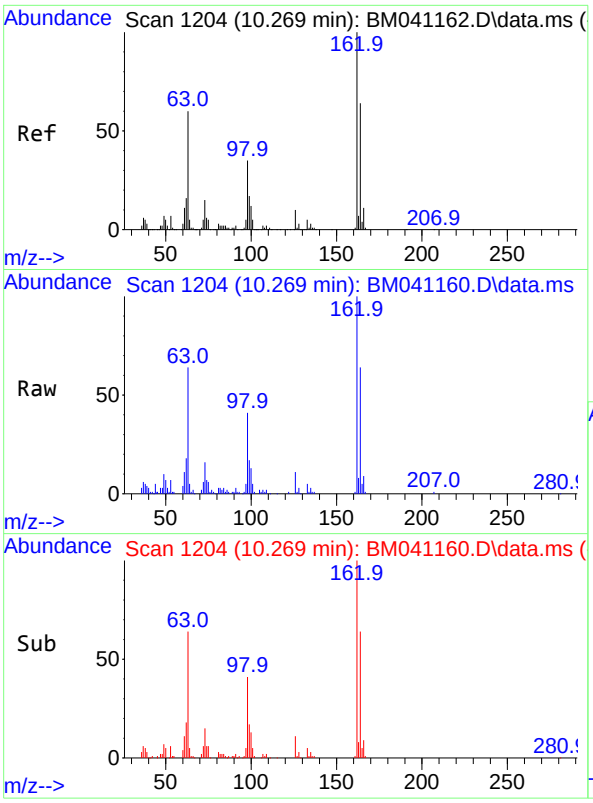


#28
bis(2-Chloroethoxy)methane
Concen: 9.794 ng
RT: 10.033 min Scan# 1164
Delta R.T. -0.006 min
Lab File: BM041160.D
Acq: 28 Jul 2023 11:29

Tgt Ion: 93 Resp: 132375

Ion	Ratio	Lower	Upper
93	100		
95	32.0	25.9	38.9
123	10.8	9.1	13.7

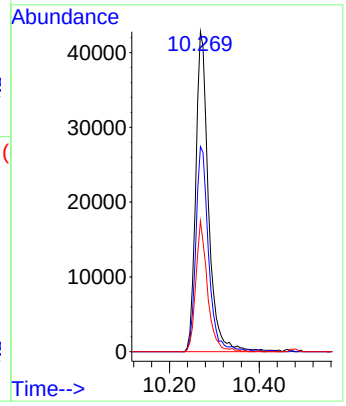




#29
2,4-Dichlorophenol
Concen: 9.462 ng
RT: 10.269 min Scan# 1
Delta R.T. -0.000 min
Lab File: BM041160.D
Acq: 28 Jul 2023 11:29

Tgt Ion:162 Resp: 8437

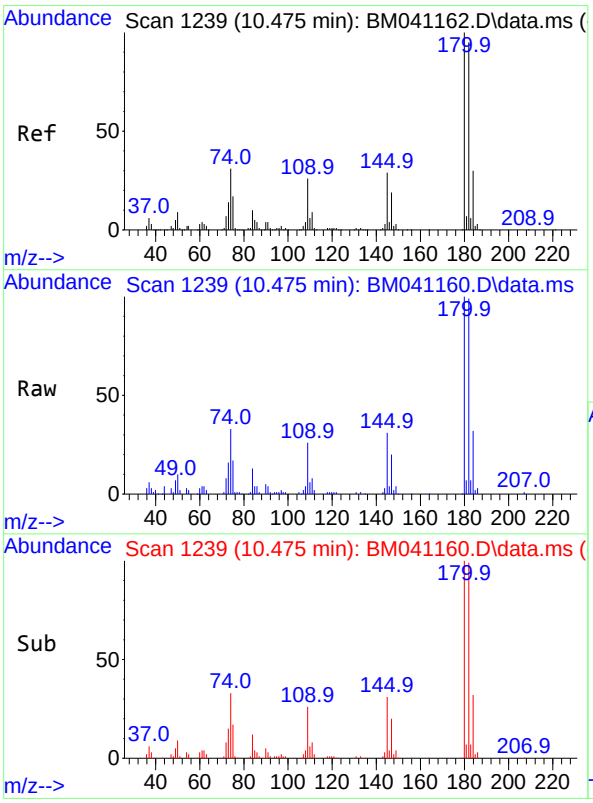
Ion	Ratio	Lower	Upper
162	100		
164	64.1	44.3	84.3
98	40.8	15.1	55.1



Instrument :
BNA_M
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

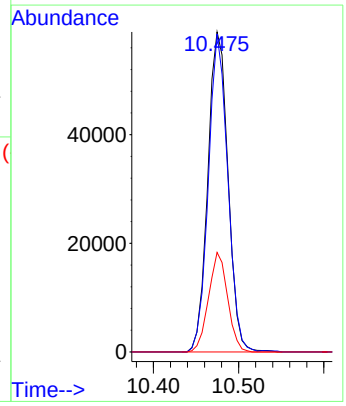
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

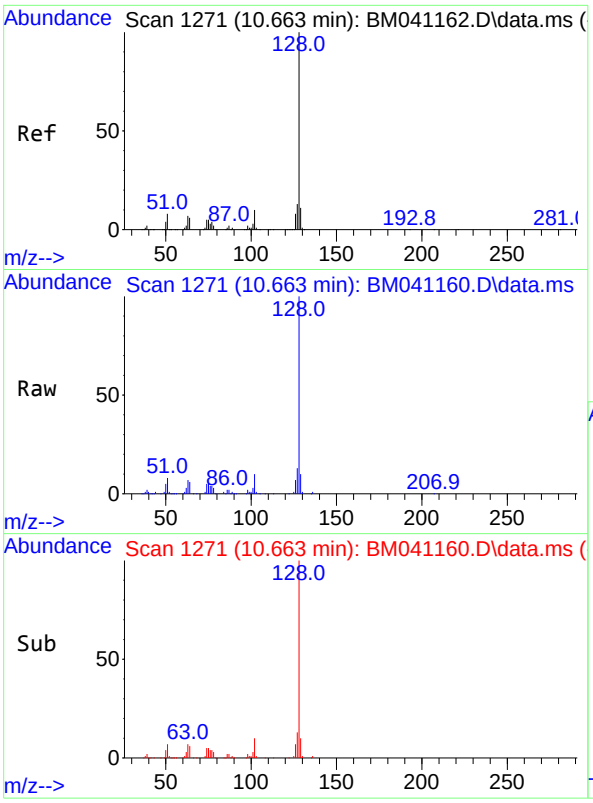


#30
1,2,4-Trichlorobenzene
Concen: 9.831 ng
RT: 10.475 min Scan# 1239
Delta R.T. -0.000 min
Lab File: BM041160.D
Acq: 28 Jul 2023 11:29

Tgt Ion:180 Resp: 96856

Ion	Ratio	Lower	Upper
180	100		
182	99.4	75.9	113.9
145	31.1	23.6	35.4

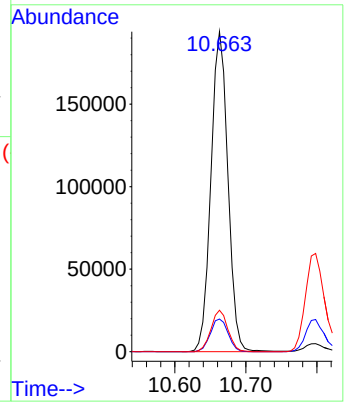




#31
Naphthalene
Concen: 10.018 ng
RT: 10.663 min Scan# 1
Delta R.T. -0.000 min
Lab File: BM041160.D
Acq: 28 Jul 2023 11:29

Tgt Ion:128 Resp: 32135

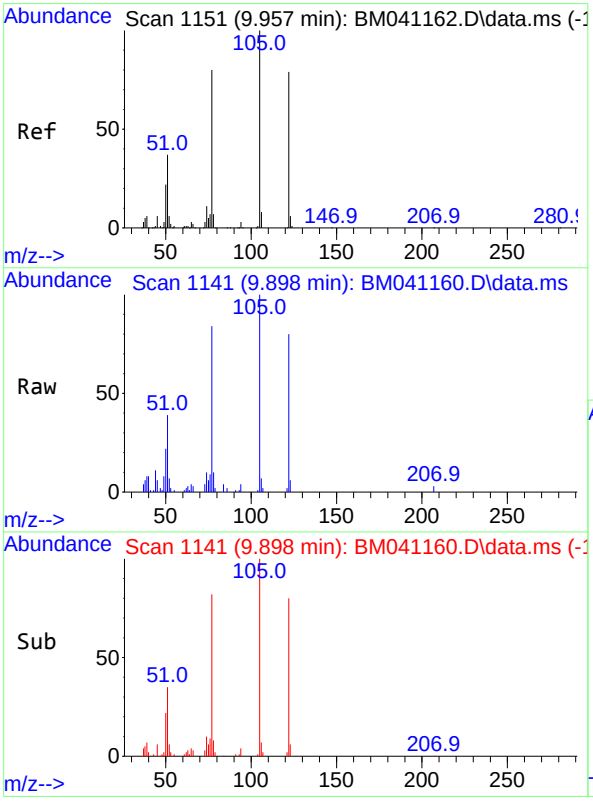
Ion	Ratio	Lower	Upper
128	100		
129	10.2	9.0	13.4
127	12.9	10.5	15.7



Instrument :
BNA_M
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

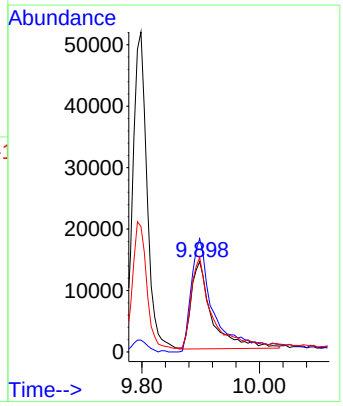
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

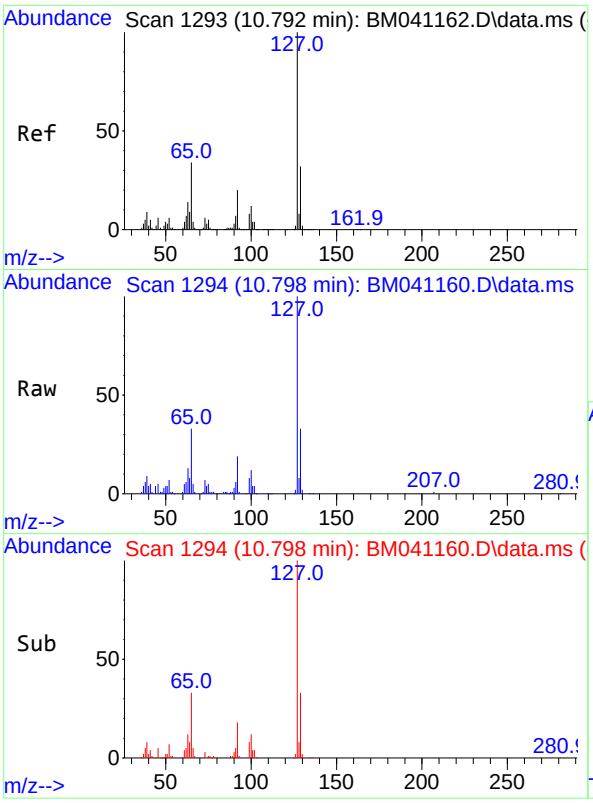


#32
Benzoic acid
Concen: 11.636 ng
RT: 9.898 min Scan# 1141
Delta R.T. -0.059 min
Lab File: BM041160.D
Acq: 28 Jul 2023 11:29

Tgt Ion:122 Resp: 34969

Ion	Ratio	Lower	Upper
122	100		
105	125.2	104.0	144.0
77	104.6	79.9	119.9

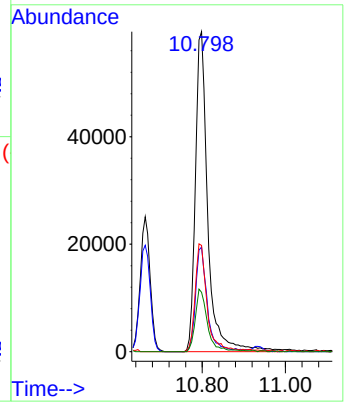




#33
4-Chloroaniline
Concen: 9.626 ng
RT: 10.798 min Scan# 1
Delta R.T. 0.006 min
Lab File: BM041160.D
Acq: 28 Jul 2023 11:29

Tgt Ion:127 Resp: 12340

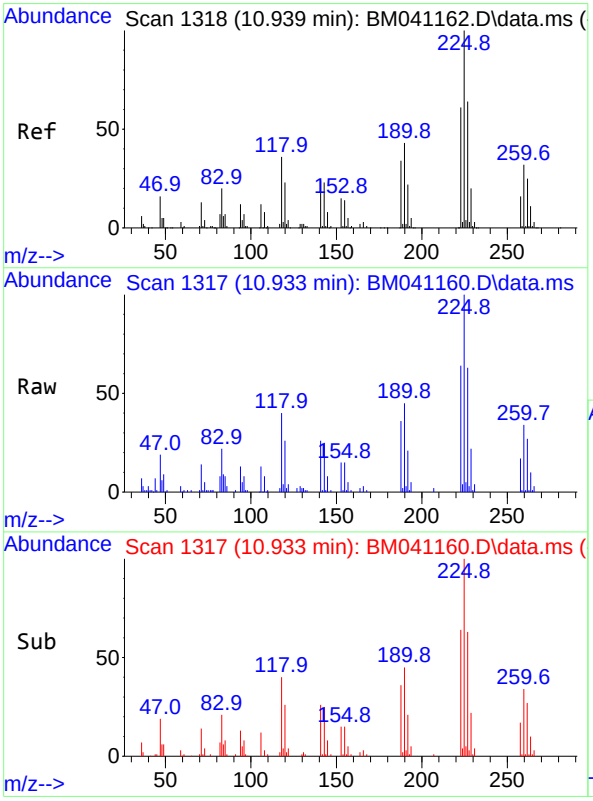
Ion	Ratio	Lower	Upper
127	100		
129	32.7	25.9	38.9
65	33.2	26.9	40.3
92	18.6	15.8	23.6



Instrument :
BNA_M
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

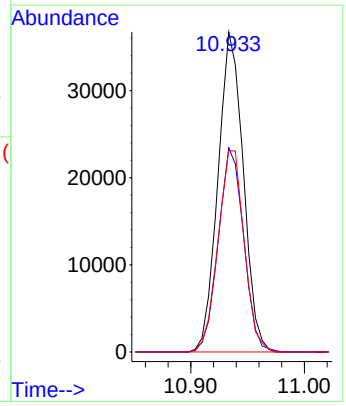
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

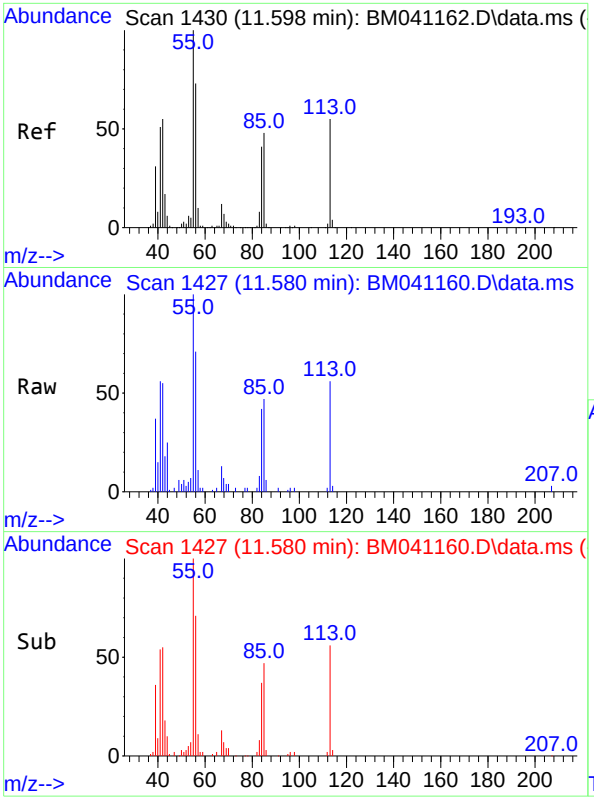


#34
Hexachlorobutadiene
Concen: 9.591 ng
RT: 10.933 min Scan# 1317
Delta R.T. -0.006 min
Lab File: BM041160.D
Acq: 28 Jul 2023 11:29

Tgt Ion:225 Resp: 56834

Ion	Ratio	Lower	Upper
225	100		
223	63.8	49.0	73.4
227	66.4	50.8	76.2





#35
Caprolactam
Concen: 8.162 ng m
RT: 11.580 min Scan# 14
Delta R.T. -0.018 min
Lab File: BM041160.D
Acq: 28 Jul 2023 11:29

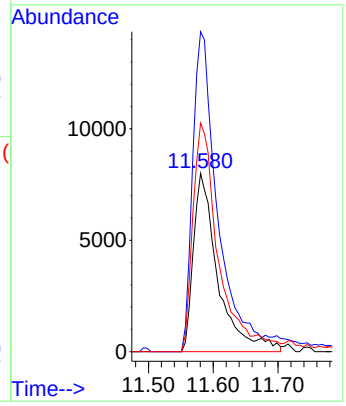
Tgt Ion:113 Resp: 2105

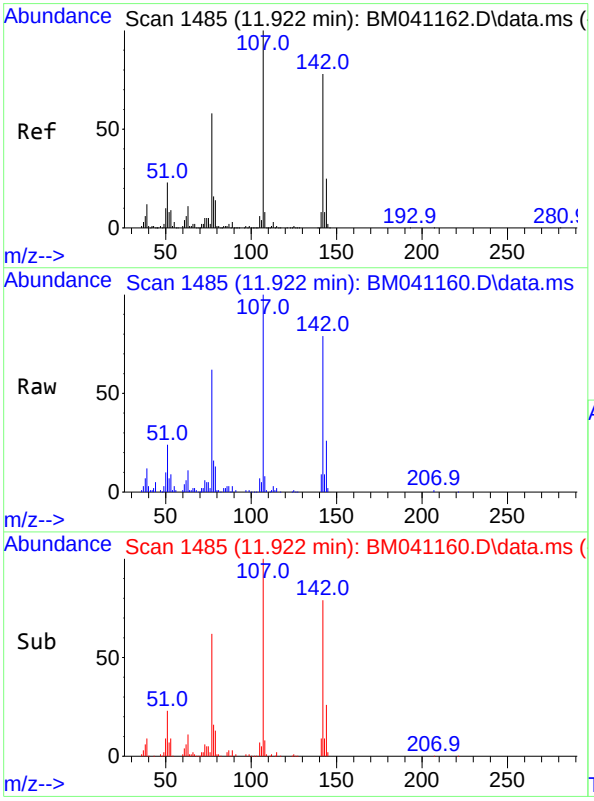
Ion	Ratio	Lower	Upper
113	100		
55	179.5	162.5	202.5
56	128.2	114.1	154.1

Instrument :
BNA_M
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

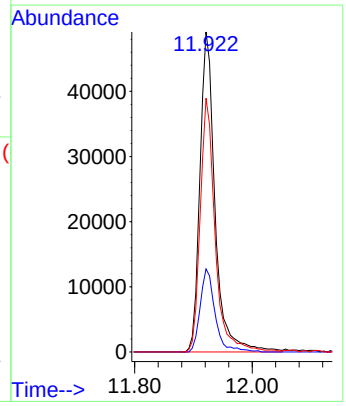


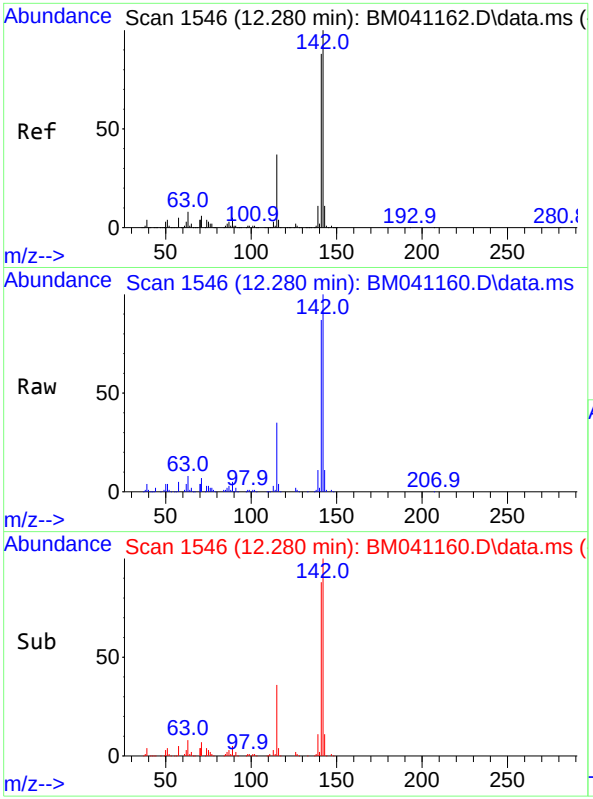


#36
4-Chloro-3-methylphenol
Concen: 9.352 ng
RT: 11.922 min Scan# 1485
Delta R.T. -0.000 min
Lab File: BM041160.D
Acq: 28 Jul 2023 11:29

Tgt Ion:107 Resp: 87777

Ion	Ratio	Lower	Upper
107	100		
144	25.9	20.1	30.1
142	79.3	62.2	93.4

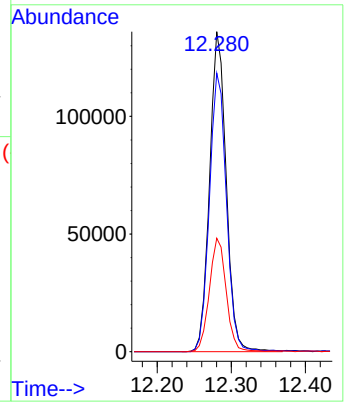




#37
2-Methylnaphthalene
Concen: 9.787 ng
RT: 12.280 min Scan# 1
Delta R.T. -0.000 min
Lab File: BM041160.D
Acq: 28 Jul 2023 11:29

Tgt Ion:142 Resp: 21165

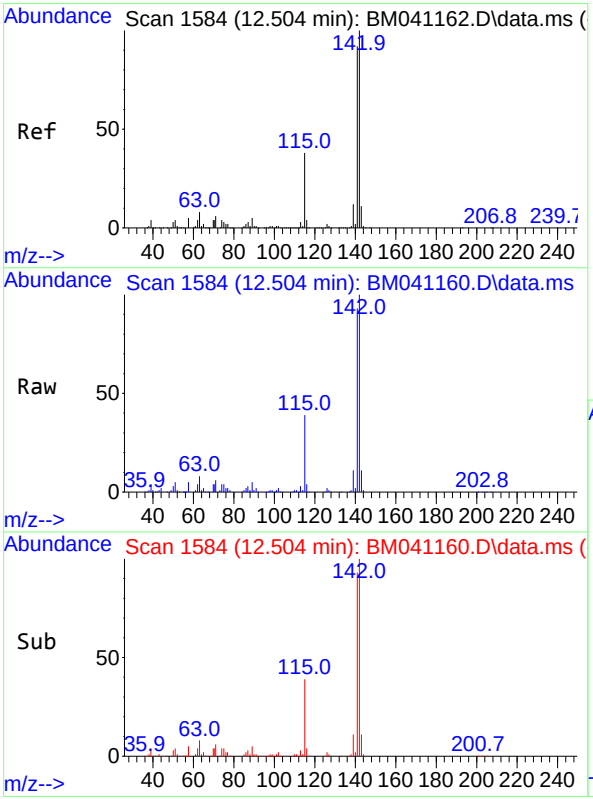
Ion	Ratio	Lower	Upper
142	100		
141	87.1	70.7	106.1
115	35.4	29.3	43.9



Instrument :
BNA_M
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

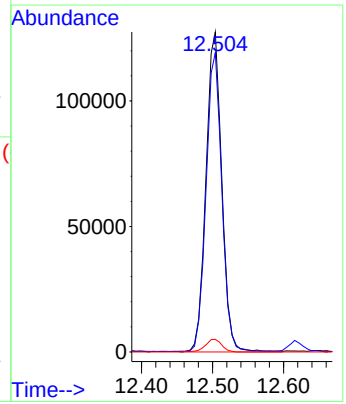
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

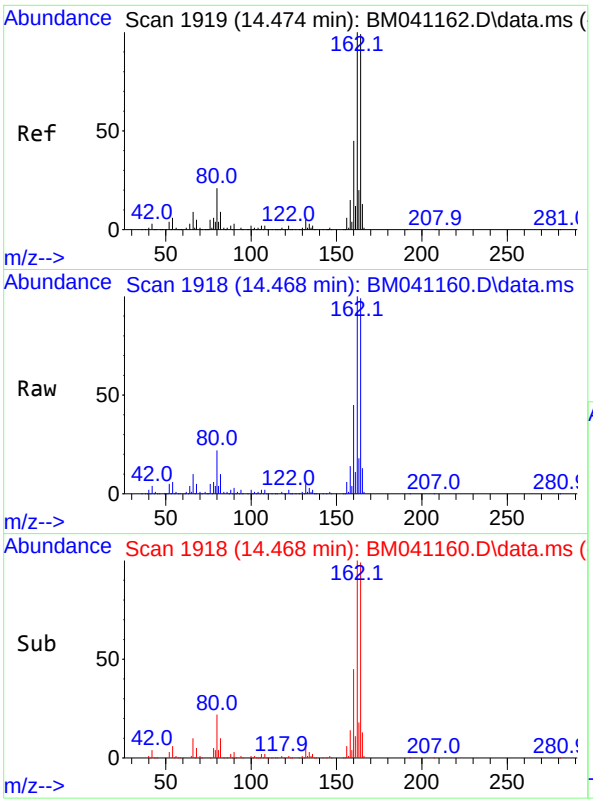


#38
1-Methylnaphthalene
Concen: 9.783 ng
RT: 12.504 min Scan# 1584
Delta R.T. -0.000 min
Lab File: BM041160.D
Acq: 28 Jul 2023 11:29

Tgt Ion:142 Resp: 198014

Ion	Ratio	Lower	Upper
142	100		
141	93.5	73.4	110.2
116	3.9	3.2	4.8

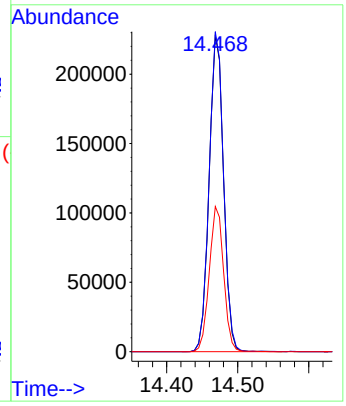




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.468 min Scan# 1
Delta R.T. -0.006 min
Lab File: BM041160.D
Acq: 28 Jul 2023 11:29

Tgt Ion:164 Resp: 32157

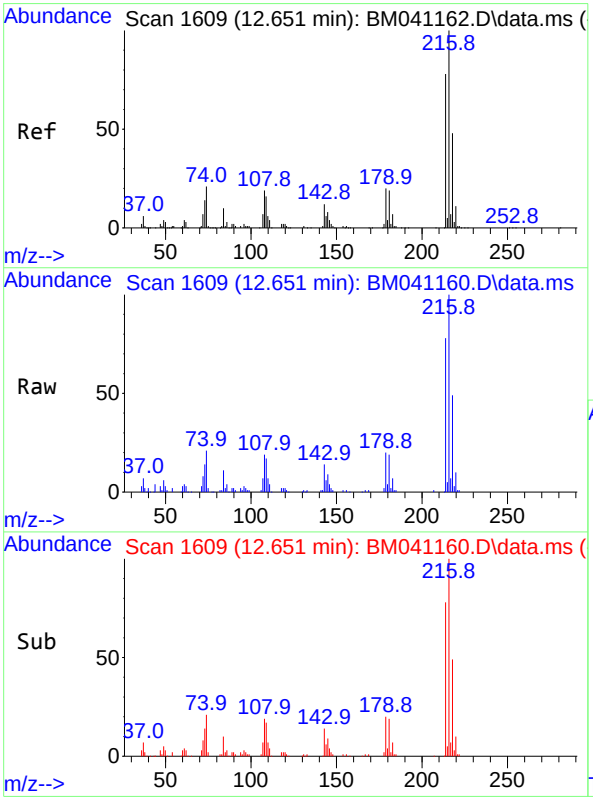
Ion	Ratio	Lower	Upper
164	100		
162	101.2	80.4	120.6
160	45.9	36.2	54.2



Instrument :
BNA_M
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

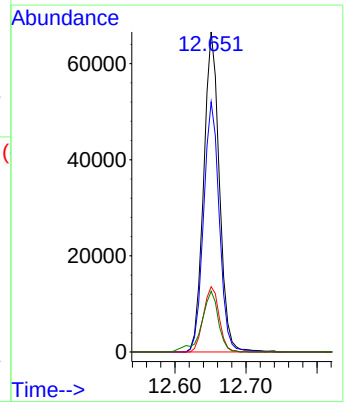
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

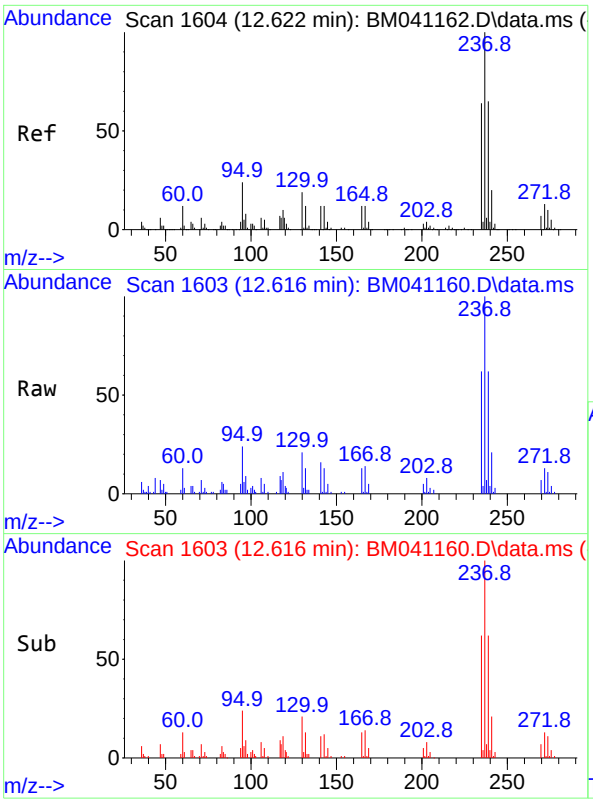


#40
1,2,4,5-Tetrachlorobenzene
Concen: 9.813 ng
RT: 12.651 min Scan# 1609
Delta R.T. -0.000 min
Lab File: BM041160.D
Acq: 28 Jul 2023 11:29

Tgt Ion:216 Resp: 102464

Ion	Ratio	Lower	Upper
216	100		
214	78.3	63.2	94.8
179	20.4	16.2	24.2
108	20.2	17.0	25.4

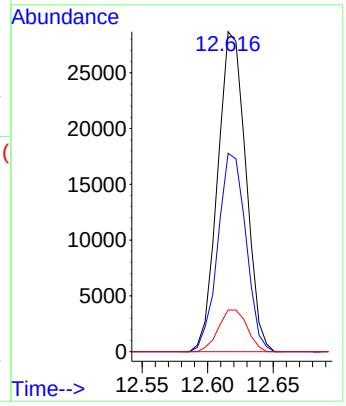




#41
Hexachlorocyclopentadiene
Concen: 7.742 ng
RT: 12.616 min Scan# 1
Delta R.T. -0.006 min
Lab File: BM041160.D
Acq: 28 Jul 2023 11:29

Tgt Ion:237 Resp: 4276

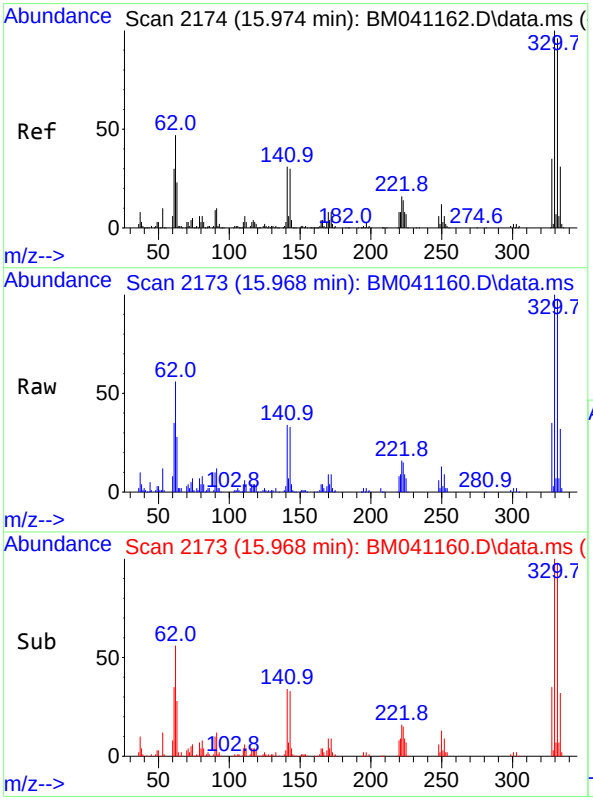
Ion	Ratio	Lower	Upper
237	100		
235	62.0	43.6	83.6
272	13.1	0.0	33.3



Instrument :
BNA_M
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

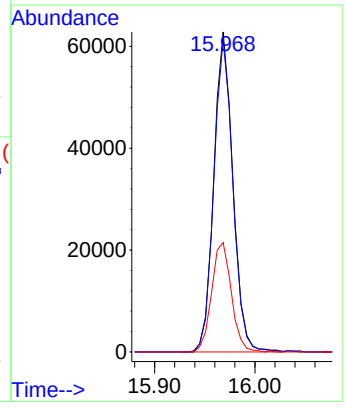
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

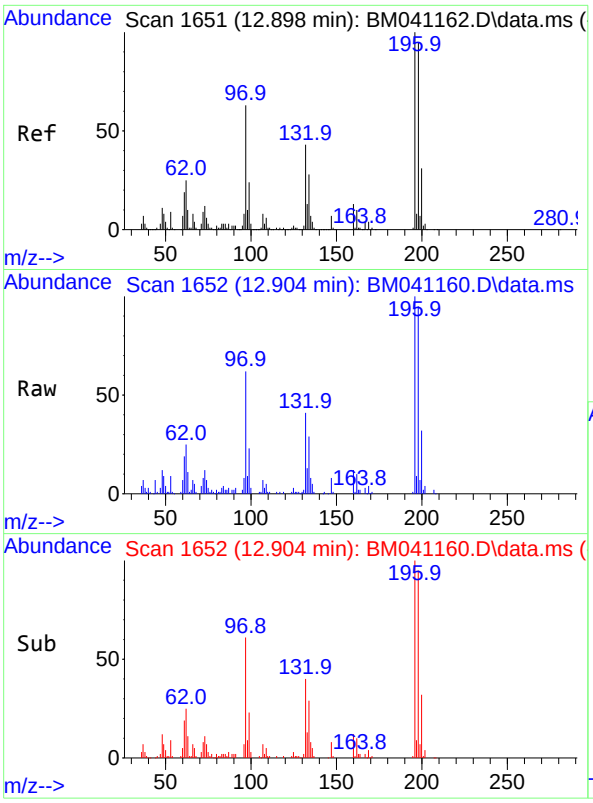


#42
2,4,6-Tribromophenol
Concen: 18.214 ng
RT: 15.968 min Scan# 2173
Delta R.T. -0.006 min
Lab File: BM041160.D
Acq: 28 Jul 2023 11:29

Tgt Ion:330 Resp: 82848

Ion	Ratio	Lower	Upper
330	100		
332	97.7	77.7	116.5
141	35.4	28.3	42.5

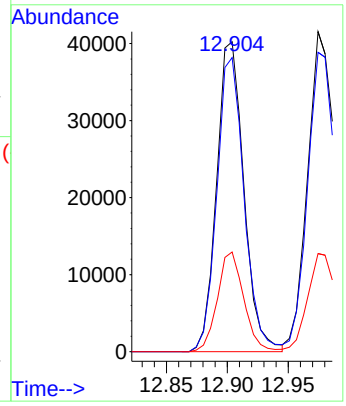




#43
2,4,6-Trichlorophenol
Concen: 9.360 ng
RT: 12.904 min Scan# 1
Delta R.T. 0.006 min
Lab File: BM041160.D
Acq: 28 Jul 2023 11:29

Tgt Ion:196 Resp: 6264

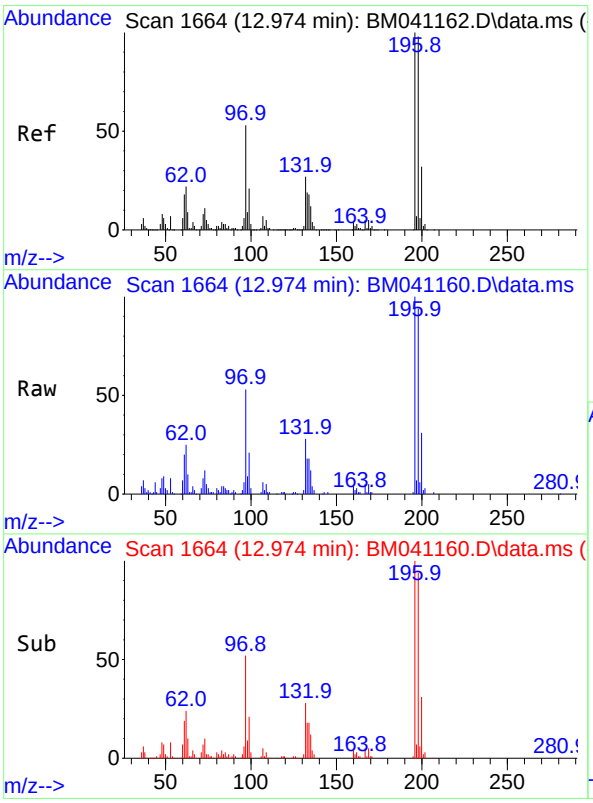
Ion	Ratio	Lower	Upper
196	100		
198	94.9	76.2	114.4
200	32.2	24.6	36.8



Instrument :
BNA_M
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

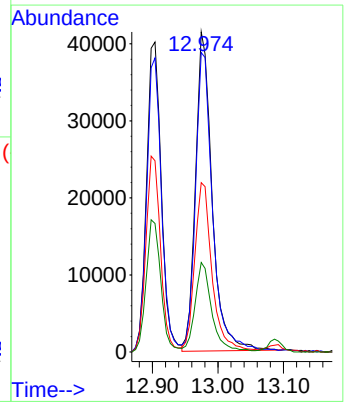
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

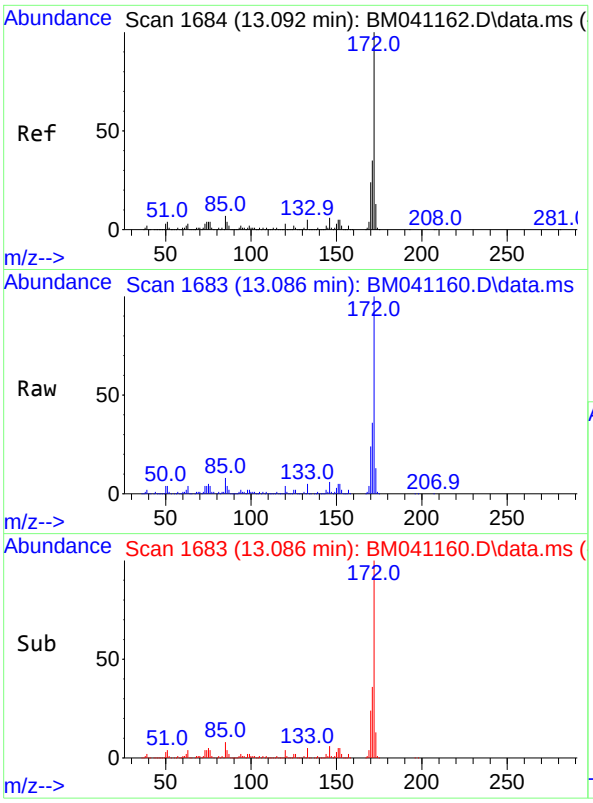


#44
2,4,5-Trichlorophenol
Concen: 9.442 ng
RT: 12.974 min Scan# 1664
Delta R.T. 0.000 min
Lab File: BM041160.D
Acq: 28 Jul 2023 11:29

Tgt Ion:196 Resp: 73138

Ion	Ratio	Lower	Upper
196	100		
198	93.5	78.2	117.4
97	52.9	42.7	64.1
132	28.0	21.6	32.4

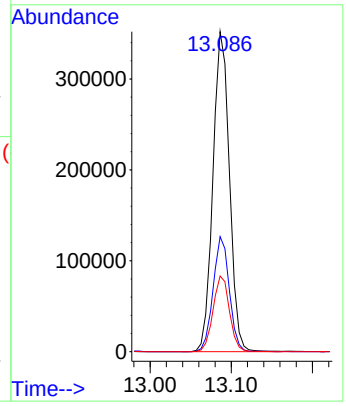




#45
2-Fluorobiphenyl
Concen: 19.494 ng
RT: 13.086 min Scan# 1(
Delta R.T. -0.006 min
Lab File: BM041160.D
Acq: 28 Jul 2023 11:29

Tgt Ion:172 Resp: 49625

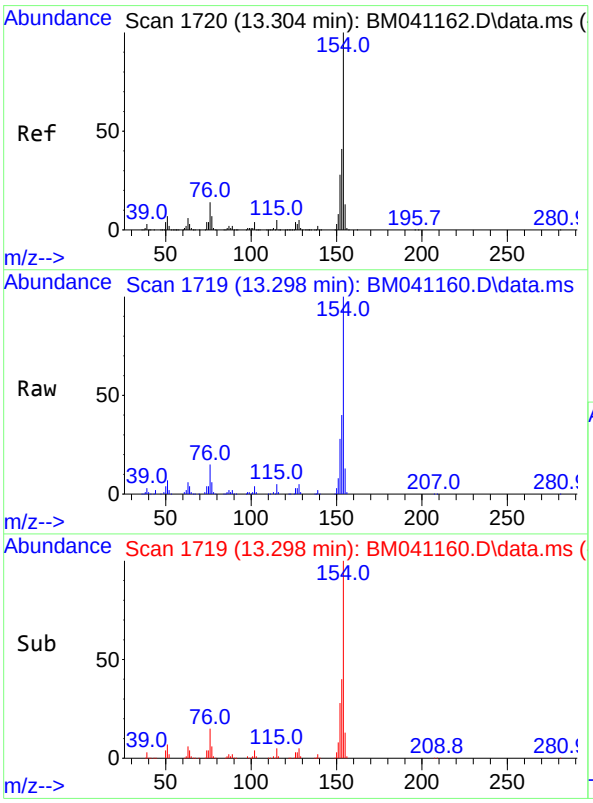
Ion	Ratio	Lower	Upper
172	100		
171	36.0	28.1	42.1
170	23.7	18.9	28.3



Instrument :
BNA_M
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

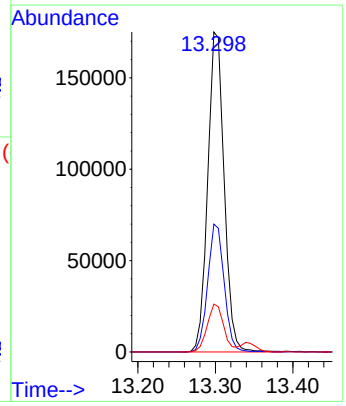
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

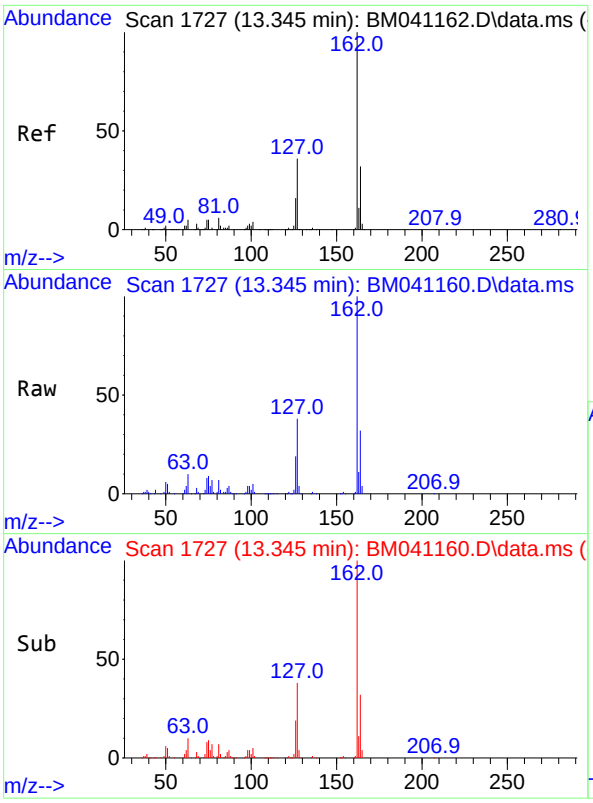


#46
1,1'-Biphenyl
Concen: 9.887 ng
RT: 13.298 min Scan# 1719
Delta R.T. -0.006 min
Lab File: BM041160.D
Acq: 28 Jul 2023 11:29

Tgt Ion:154 Resp: 257755

Ion	Ratio	Lower	Upper
154	100		
153	40.0	20.5	60.5
76	15.0	0.0	34.1

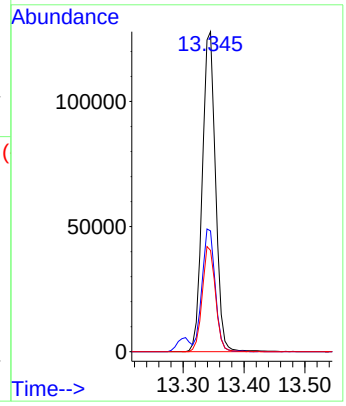




#47
2-Chloronaphthalene
Concen: 9.911 ng
RT: 13.345 min Scan# 1
Delta R.T. -0.000 min
Lab File: BM041160.D
Acq: 28 Jul 2023 11:29

Tgt Ion:162 Resp: 19292

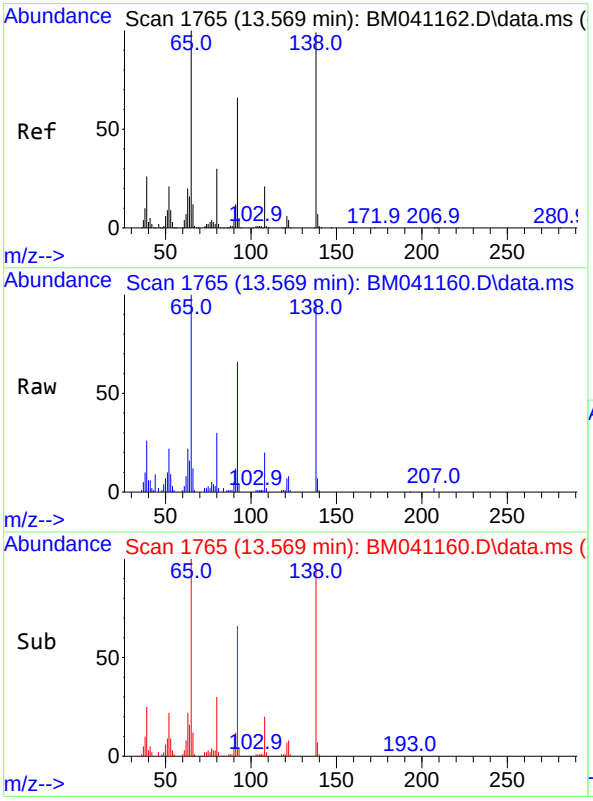
Ion	Ratio	Lower	Upper
162	100		
127	37.7	30.6	45.8
164	31.6	25.6	38.4



Instrument :
BNA_M
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

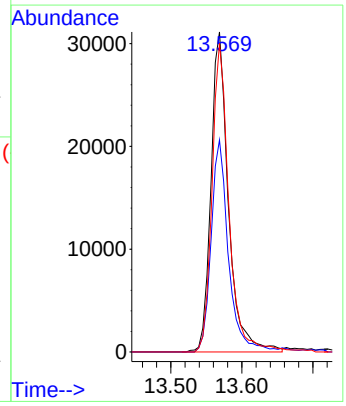
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

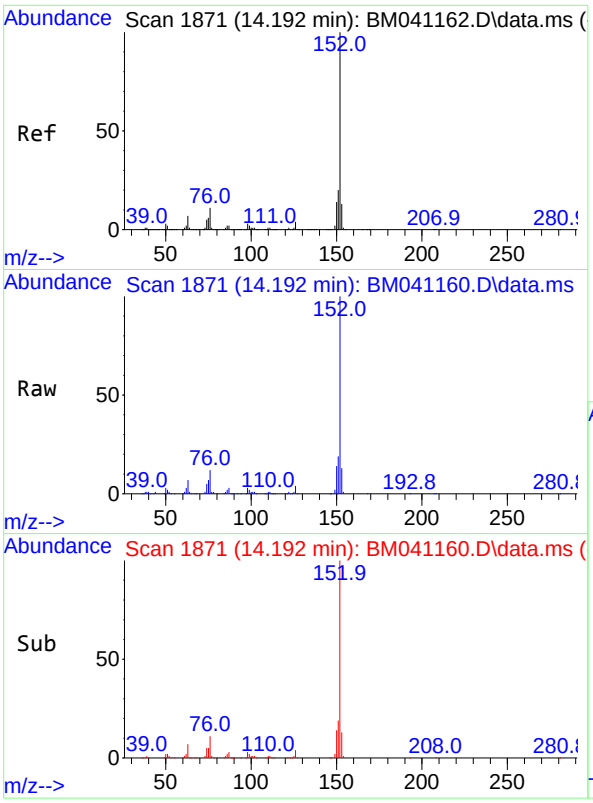


#48
2-Nitroaniline
Concen: 8.552 ng
RT: 13.569 min Scan# 1765
Delta R.T. -0.001 min
Lab File: BM041160.D
Acq: 28 Jul 2023 11:29

Tgt Ion: 65 Resp: 53136

Ion	Ratio	Lower	Upper
65	100		
92	66.2	53.0	79.4
138	96.5	79.1	118.7

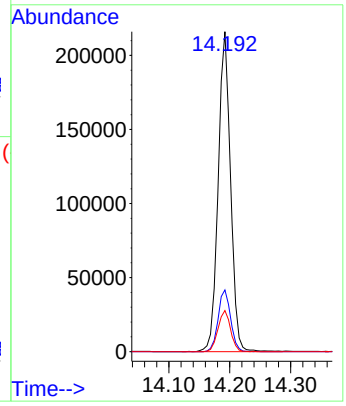




#49
Acenaphthylene
Concen: 9.671 ng
RT: 14.192 min Scan# 1
Delta R.T. -0.000 min
Lab File: BM041160.D
Acq: 28 Jul 2023 11:29

Tgt Ion:152 Resp: 30386

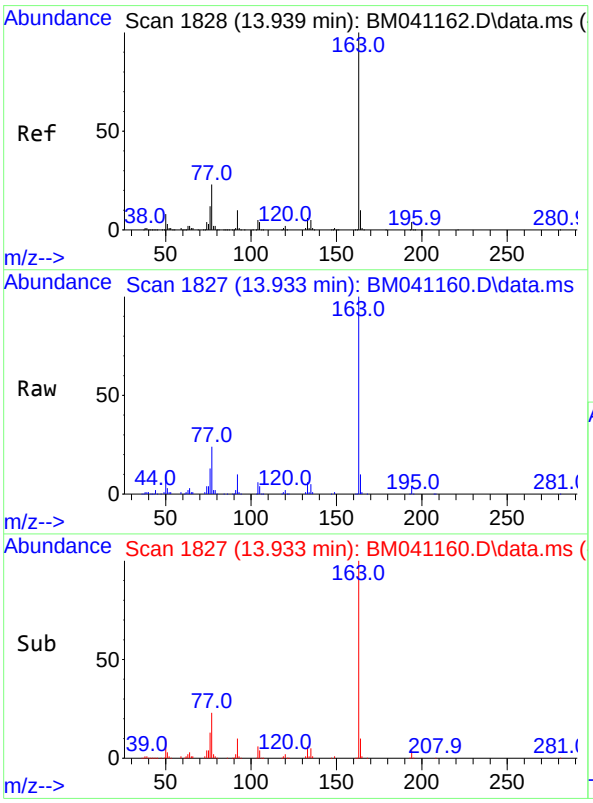
Ion	Ratio	Lower	Upper
152	100		
151	19.3	16.1	24.1
153	12.9	10.5	15.7



Instrument :
BNA_M
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

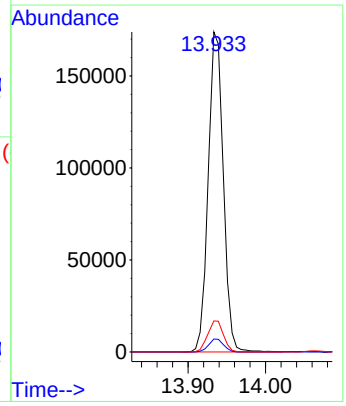
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

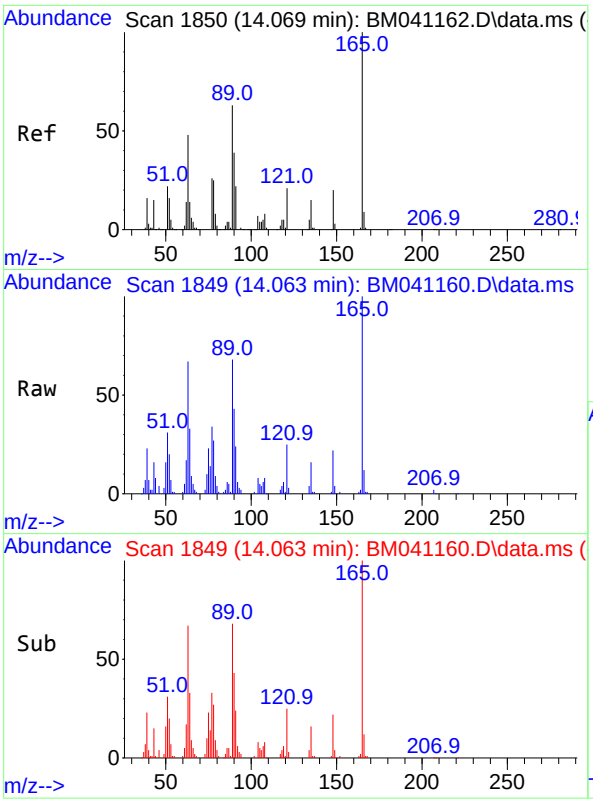


#50
Dimethylphthalate
Concen: 9.730 ng
RT: 13.933 min Scan# 1827
Delta R.T. -0.006 min
Lab File: BM041160.D
Acq: 28 Jul 2023 11:29

Tgt Ion:163 Resp: 235376

Ion	Ratio	Lower	Upper
163	100		
194	4.1	3.3	4.9
164	9.7	8.3	12.5

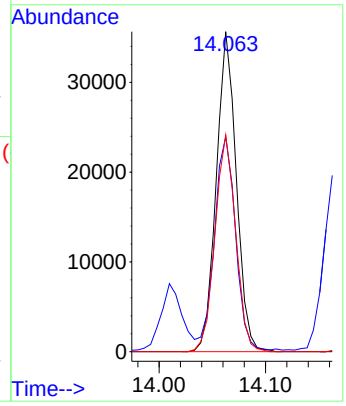




#51
2,6-Dinitrotoluene
Concen: 9.265 ng
RT: 14.063 min Scan# 1
Delta R.T. -0.006 min
Lab File: BM041160.D
Acq: 28 Jul 2023 11:29

Tgt Ion:165 Resp: 4643

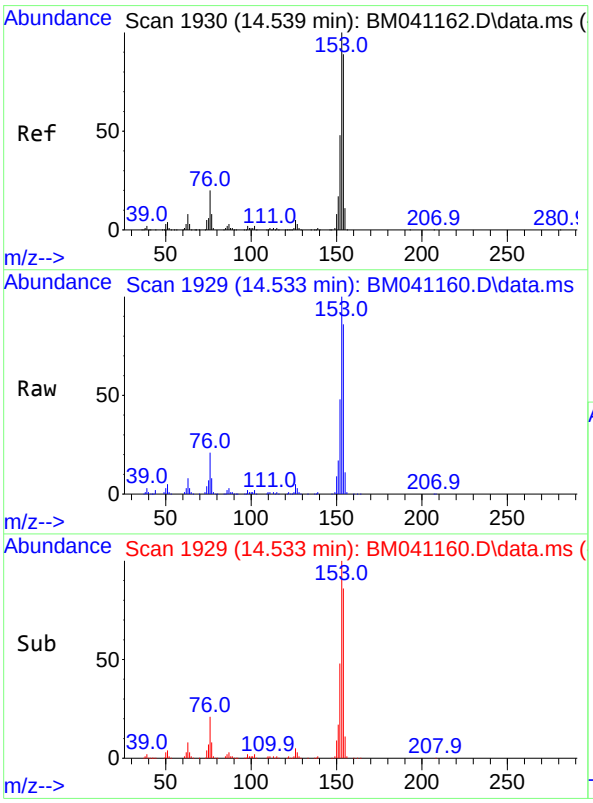
Ion	Ratio	Lower	Upper
165	100		
63	67.1	50.9	76.3
89	67.7	50.6	76.0



Instrument :
BNA_M
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

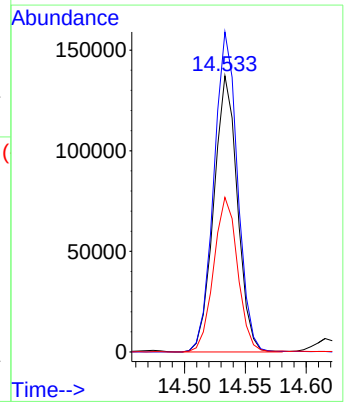
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

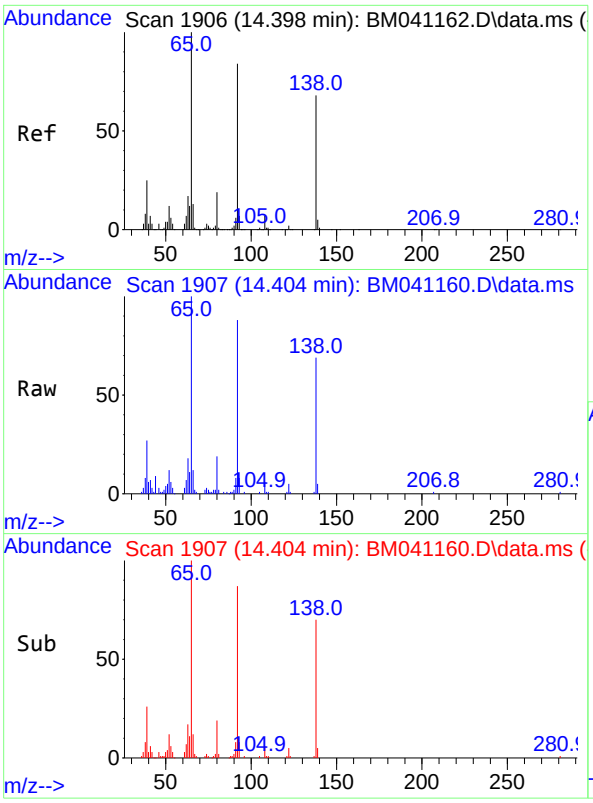


#52
Acenaphthene
Concen: 9.791 ng
RT: 14.533 min Scan# 1929
Delta R.T. -0.006 min
Lab File: BM041160.D
Acq: 28 Jul 2023 11:29

Tgt Ion:154 Resp: 185317

Ion	Ratio	Lower	Upper
154	100		
153	115.9	90.2	135.4
152	56.0	43.4	65.0

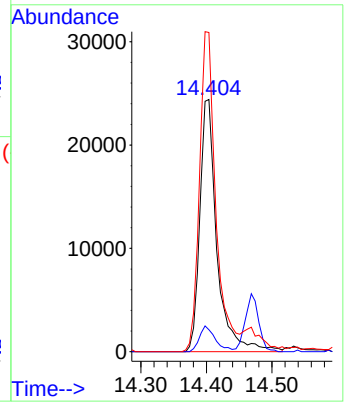




#53
3-Nitroaniline
Concen: 9.807 ng
RT: 14.404 min Scan# 1
Delta R.T. 0.006 min
Lab File: BM041160.D
Acq: 28 Jul 2023 11:29

Tgt Ion:138 Resp: 4430

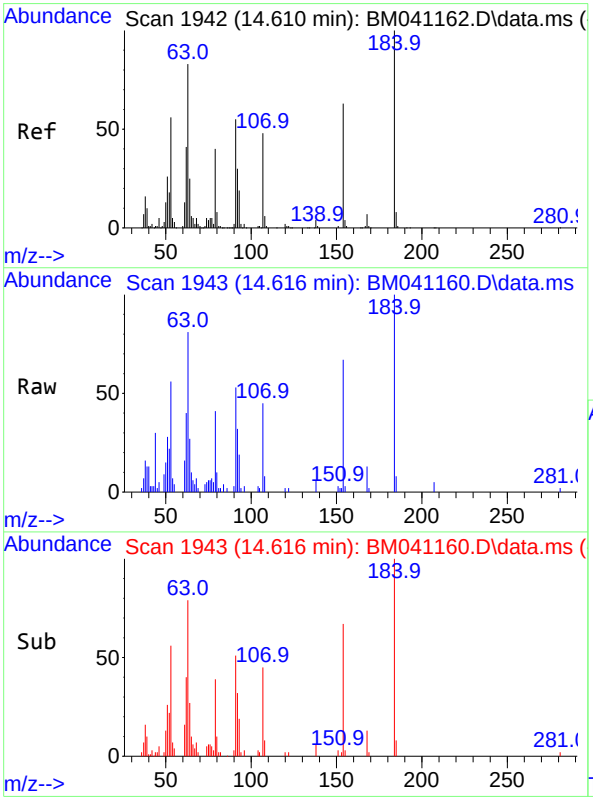
Ion	Ratio	Lower	Upper
138	100		
108	8.7	7.6	11.4
92	126.6	98.9	148.3



Instrument :
BNA_M
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

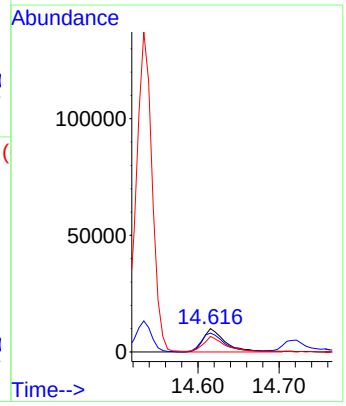
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

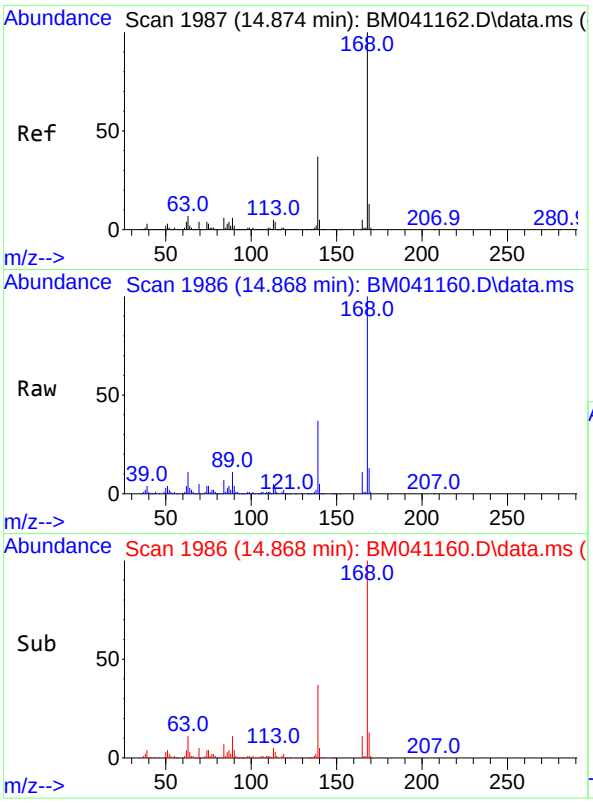


#54
2,4-Dinitrophenol
Concen: 11.044 ng
RT: 14.616 min Scan# 1943
Delta R.T. 0.006 min
Lab File: BM041160.D
Acq: 28 Jul 2023 11:29

Tgt Ion:184 Resp: 19018

Ion	Ratio	Lower	Upper
184	100		
63	80.7	66.5	99.7
154	66.7	52.8	79.2

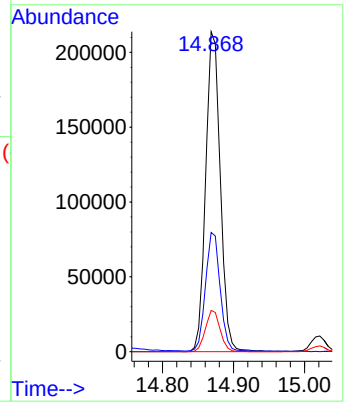




#55
Dibenzofuran
Concen: 9.928 ng
RT: 14.868 min Scan# 1
Delta R.T. -0.006 min
Lab File: BM041160.D
Acq: 28 Jul 2023 11:29

Tgt Ion:168 Resp: 30659

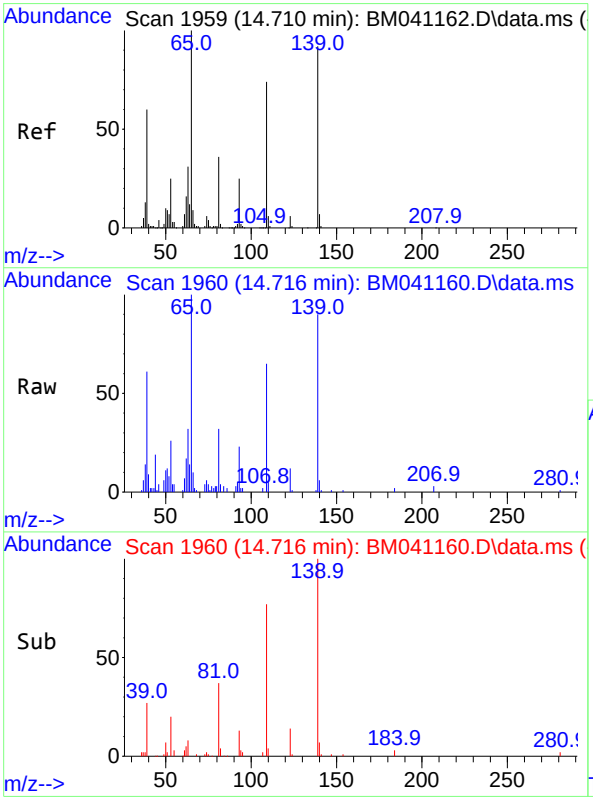
Ion	Ratio	Lower	Upper
168	100		
139	37.2	29.8	44.6
169	12.9	10.5	15.7



Instrument :
BNA_M
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

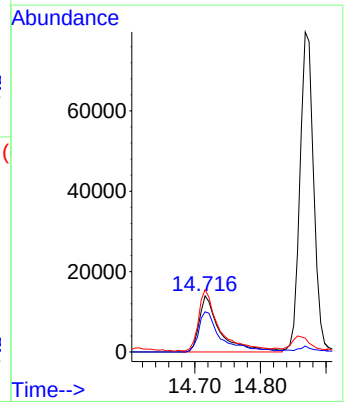
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

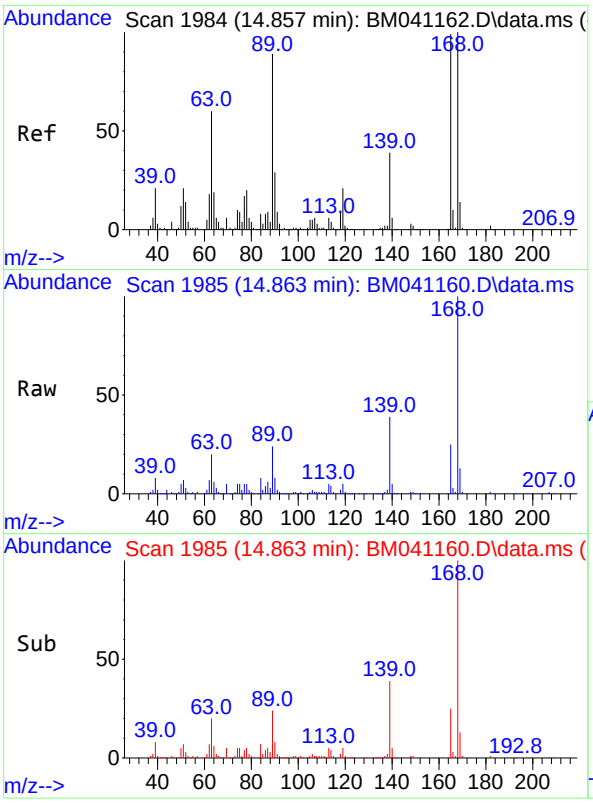


#56
4-Nitrophenol
Concen: 7.366 ng
RT: 14.716 min Scan# 1960
Delta R.T. 0.005 min
Lab File: BM041160.D
Acq: 28 Jul 2023 11:29

Tgt Ion:139 Resp: 30771

Ion	Ratio	Lower	Upper
139	100		
109	71.6	61.2	101.2
65	110.9	89.5	129.5

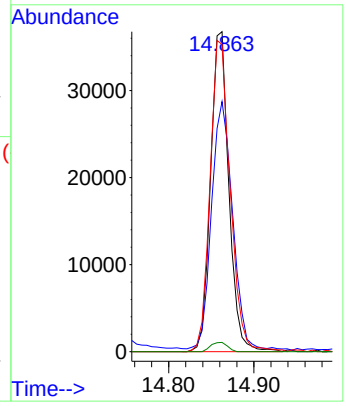




#57
2,4-Dinitrotoluene
Concen: 9.897 ng
RT: 14.863 min Scan# 1
Delta R.T. 0.006 min
Lab File: BM041160.D
Acq: 28 Jul 2023 11:29

Tgt Ion:165 Resp: 5477

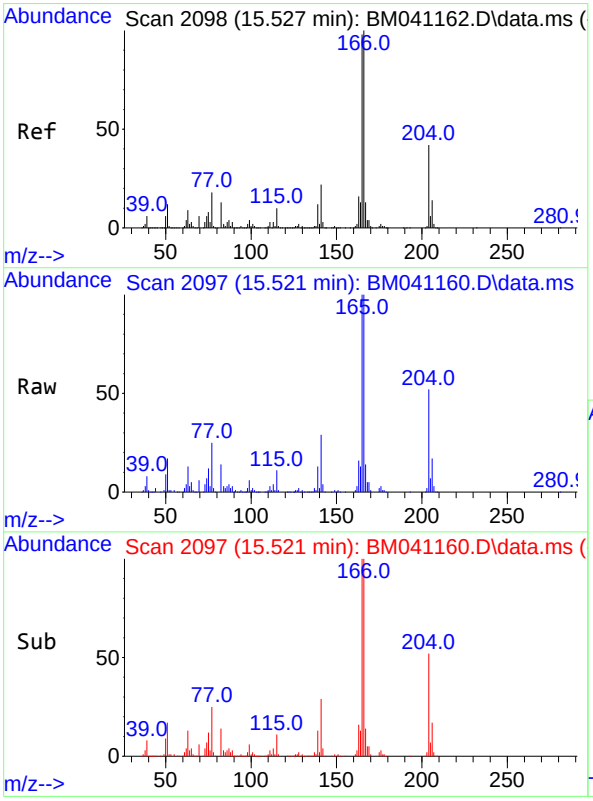
Ion	Ratio	Lower	Upper
165	100		
63	78.2	48.3	72.5
89	96.0	71.8	107.8
182	2.9	2.0	3.0



Instrument :
BNA_M
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

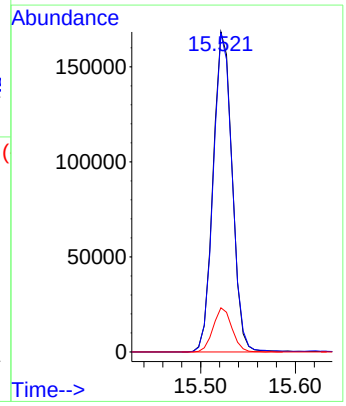
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

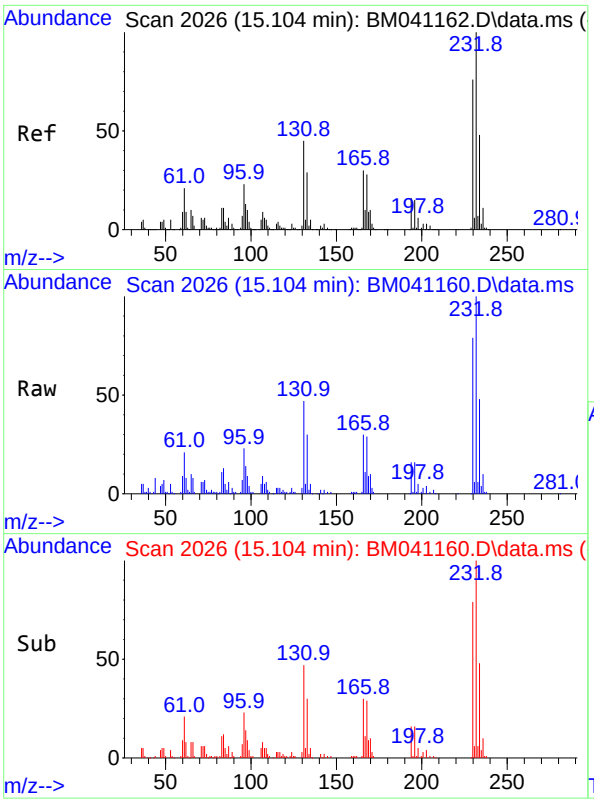


#58
Fluorene
Concen: 9.622 ng
RT: 15.521 min Scan# 2097
Delta R.T. -0.006 min
Lab File: BM041160.D
Acq: 28 Jul 2023 11:29

Tgt Ion:166 Resp: 234406

Ion	Ratio	Lower	Upper
166	100		
165	99.5	78.2	117.4
167	13.8	10.6	16.0

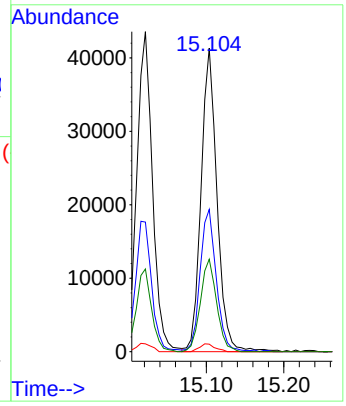




#59
2,3,4,6-Tetrachlorophenol
Concen: 9.420 ng
RT: 15.104 min Scan# 2
Delta R.T. -0.000 min
Lab File: BM041160.D
Acq: 28 Jul 2023 11:29

Tgt Ion:232 Resp: 5908

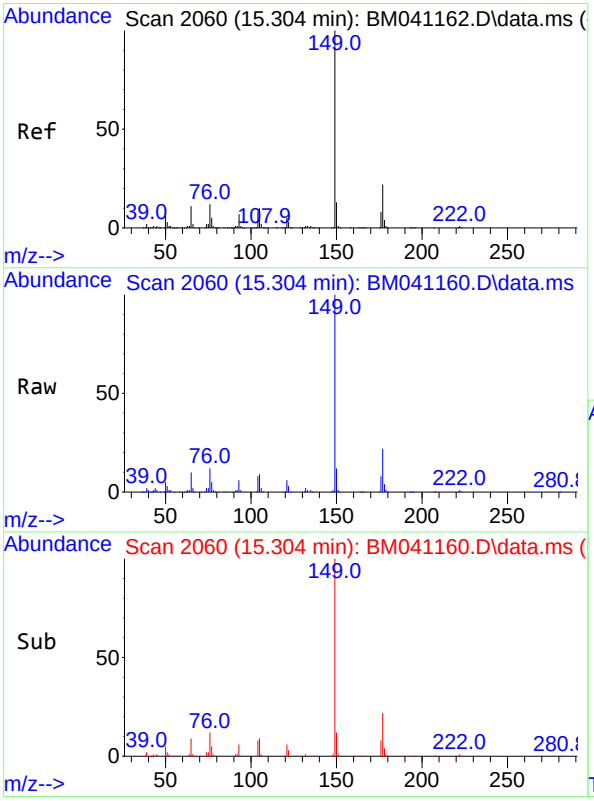
Ion	Ratio	Lower	Upper
232	100		
131	47.6	36.9	55.3
130	2.5	2.0	3.0
166	31.1	24.2	36.2



Instrument :
BNA_M
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

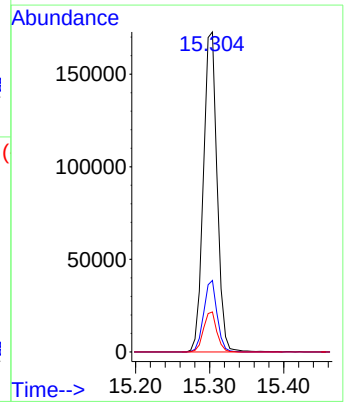
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

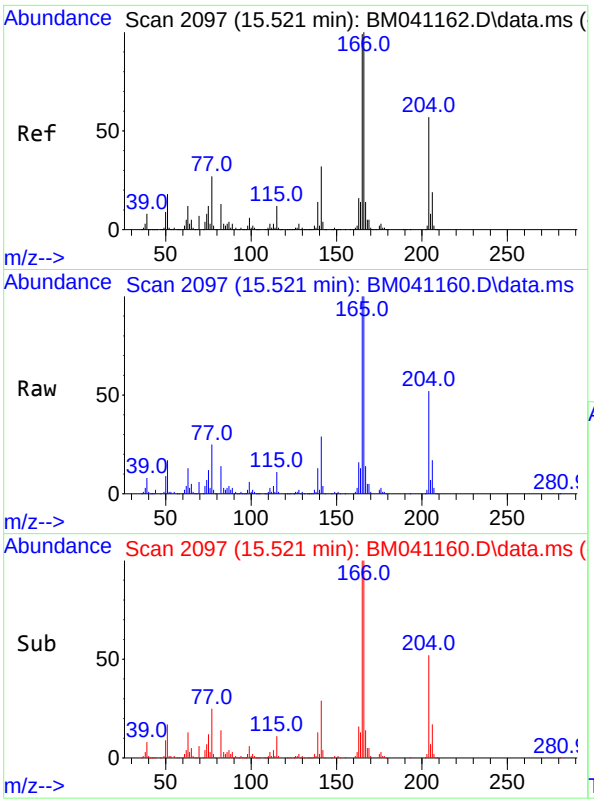


#60
Diethylphthalate
Concen: 9.534 ng
RT: 15.304 min Scan# 2060
Delta R.T. -0.000 min
Lab File: BM041160.D
Acq: 28 Jul 2023 11:29

Tgt Ion:149 Resp: 223035

Ion	Ratio	Lower	Upper
149	100		
177	22.4	17.5	26.3
150	12.5	10.1	15.1

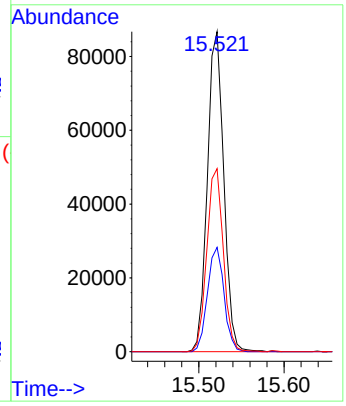




#61
4-Chlorophenyl-phenylether
Concen: 9.496 ng
RT: 15.521 min Scan# 2
Delta R.T. -0.000 min
Lab File: BM041160.D
Acq: 28 Jul 2023 11:29

Tgt Ion:204 Resp: 11592

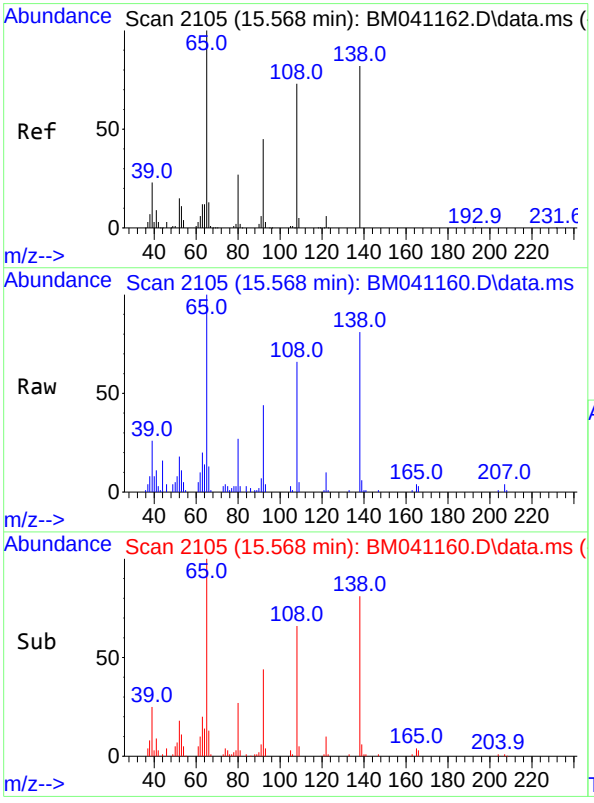
Ion	Ratio	Lower	Upper
204	100		
206	32.6	26.5	39.7
141	57.2	44.8	67.2



Instrument :
BNA_M
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

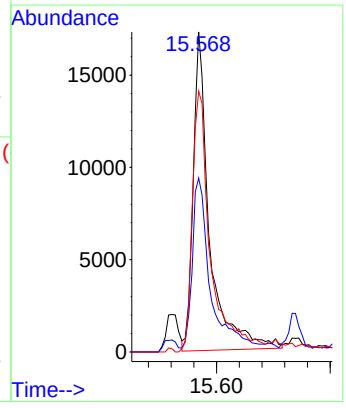
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

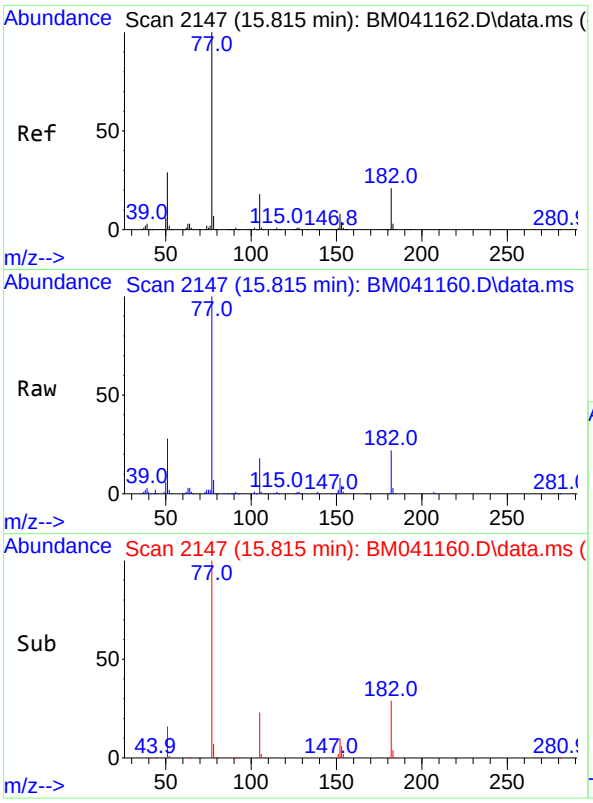


#62
4-Nitroaniline
Concen: 10.049 ng
RT: 15.568 min Scan# 2105
Delta R.T. 0.000 min
Lab File: BM041160.D
Acq: 28 Jul 2023 11:29

Tgt Ion:138 Resp: 34529

Ion	Ratio	Lower	Upper
138	100		
92	54.4	35.1	75.1
108	81.5	67.8	107.8

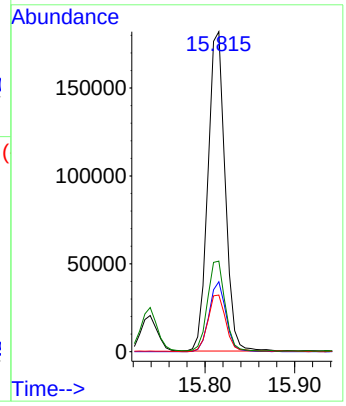




#63
Azobenzene
Concen: 9.442 ng
RT: 15.815 min Scan# 21
Delta R.T. 0.000 min
Lab File: BM041160.D
Acq: 28 Jul 2023 11:29

Tgt Ion: 77 Resp: 24194

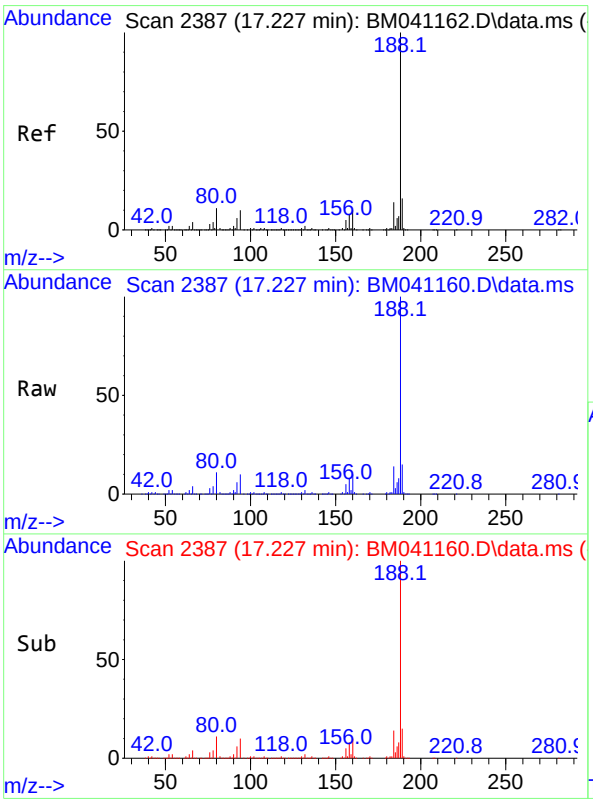
Ion	Ratio	Lower	Upper
77	100		
182	21.9	1.3	41.3
105	17.7	0.0	38.5
51	28.3	9.1	49.1



Instrument :
BNA_M
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

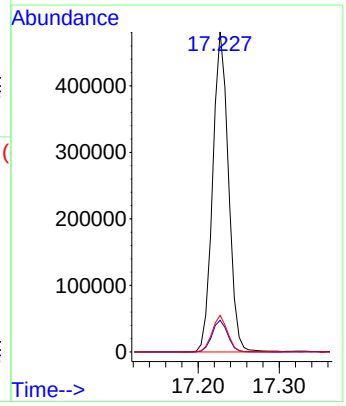
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

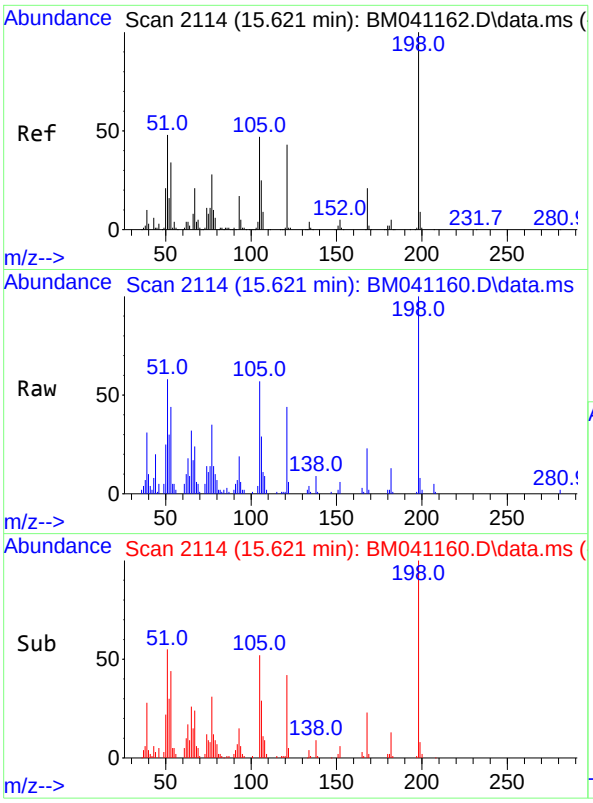


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.227 min Scan# 2387
Delta R.T. -0.000 min
Lab File: BM041160.D
Acq: 28 Jul 2023 11:29

Tgt Ion:188 Resp: 647514

Ion	Ratio	Lower	Upper
188	100		
94	9.9	8.2	12.2
80	11.4	8.6	13.0

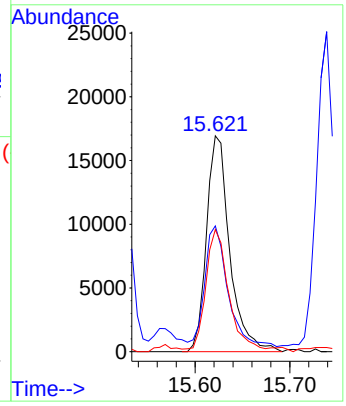




#65
4,6-Dinitro-2-methylphenol
Concen: 7.333 ng
RT: 15.621 min Scan# 2
Delta R.T. 0.000 min
Lab File: BM041160.D
Acq: 28 Jul 2023 11:29

Tgt Ion:198 Resp: 2876

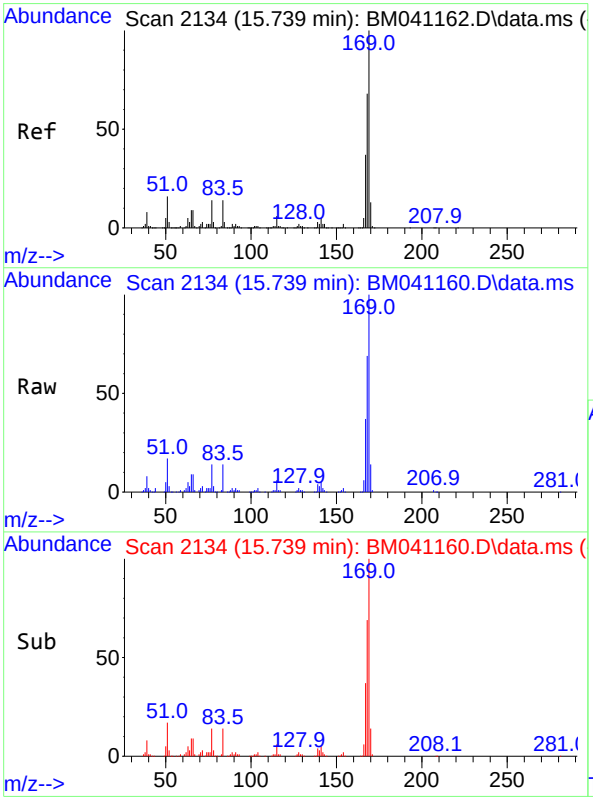
Ion	Ratio	Lower	Upper
198	100		
51	58.3	31.7	71.7
105	56.5	27.8	67.8



Instrument :
BNA_M
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

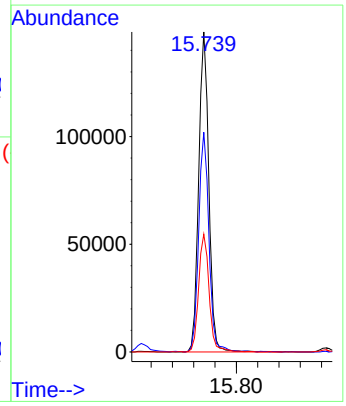
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

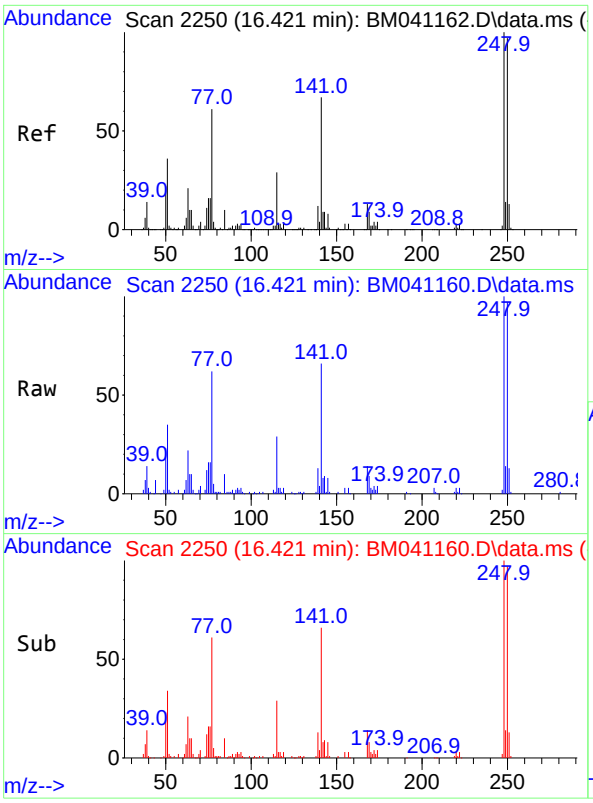


#66
n-Nitrosodiphenylamine
Concen: 9.739 ng
RT: 15.739 min Scan# 2134
Delta R.T. -0.000 min
Lab File: BM041160.D
Acq: 28 Jul 2023 11:29

Tgt Ion:169 Resp: 196123

Ion	Ratio	Lower	Upper
169	100		
168	68.6	54.6	81.8
167	36.8	29.9	44.9

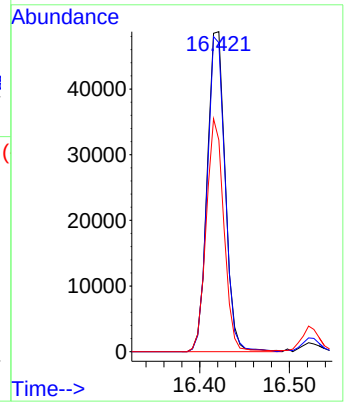




#67
4-Bromophenyl-phenylether
Concen: 9.552 ng
RT: 16.421 min Scan# 2
Delta R.T. -0.000 min
Lab File: BM041160.D
Acq: 28 Jul 2023 11:29

Tgt Ion:248 Resp: 6781

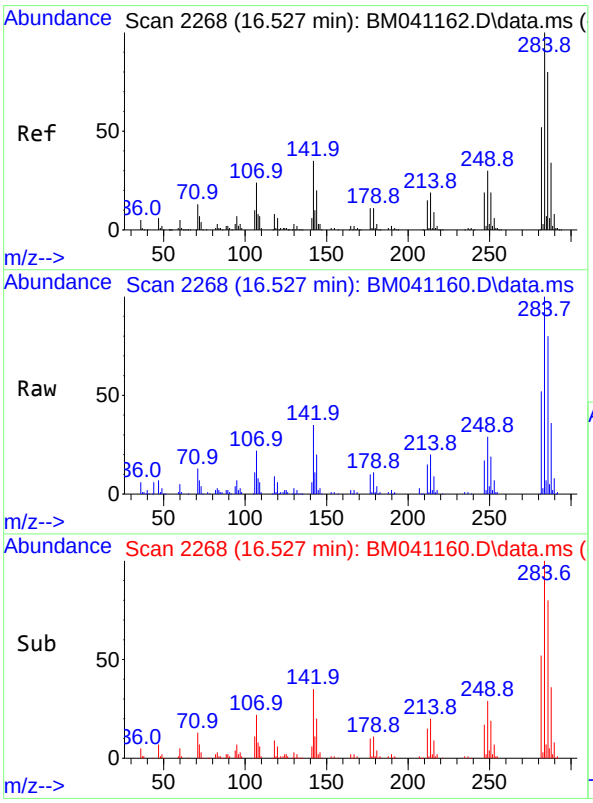
Ion	Ratio	Lower	Upper
248	100		
250	96.6	78.0	117.0
141	66.2	53.8	80.8



Instrument :
BNA_M
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

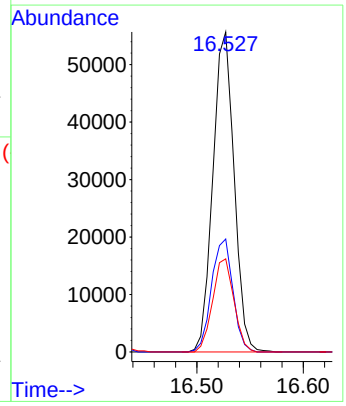
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

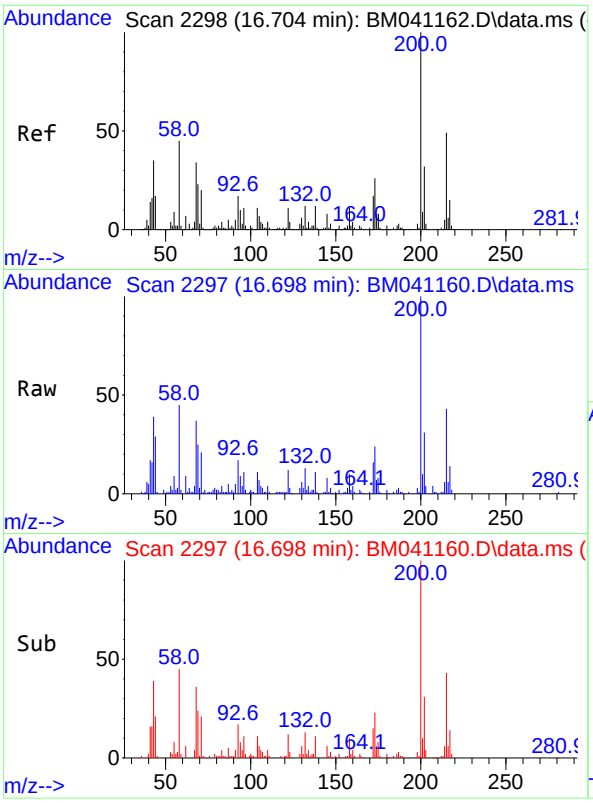


#68
Hexachlorobenzene
Concen: 9.772 ng
RT: 16.527 min Scan# 2268
Delta R.T. -0.000 min
Lab File: BM041160.D
Acq: 28 Jul 2023 11:29

Tgt Ion:284 Resp: 77144

Ion	Ratio	Lower	Upper
284	100		
142	35.3	28.0	42.0
249	29.1	23.7	35.5

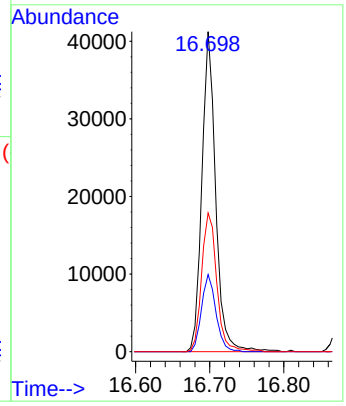




#69
Atrazine
Concen: 10.059 ng
RT: 16.698 min Scan# 2
Delta R.T. -0.006 min
Lab File: BM041160.D
Acq: 28 Jul 2023 11:29

Tgt Ion:200 Resp: 5320

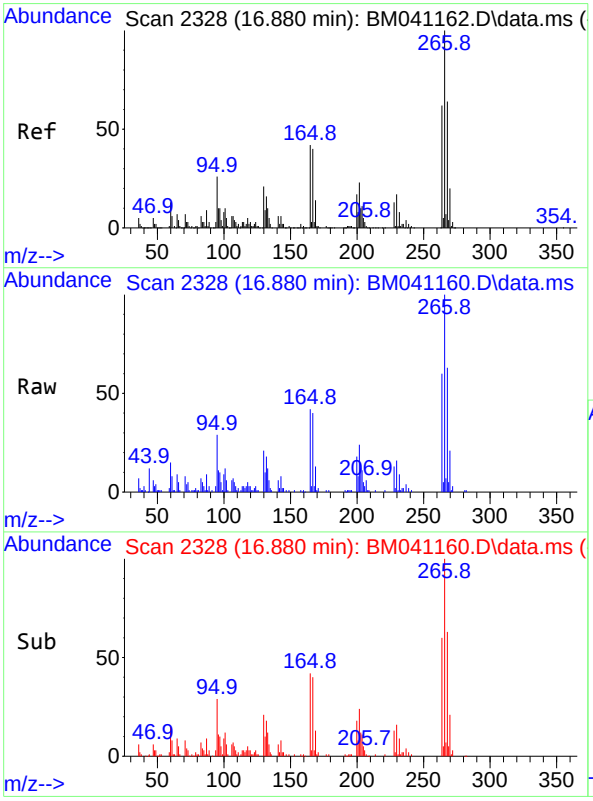
Ion	Ratio	Lower	Upper
200	100		
173	24.1	5.6	45.6
215	43.3	28.5	68.5



Instrument :
BNA_M
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

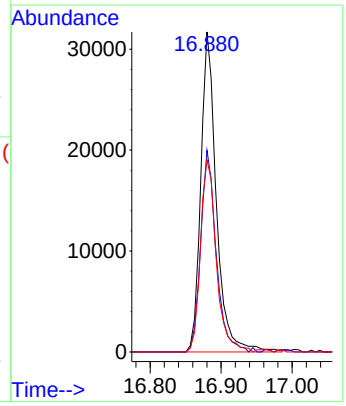
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

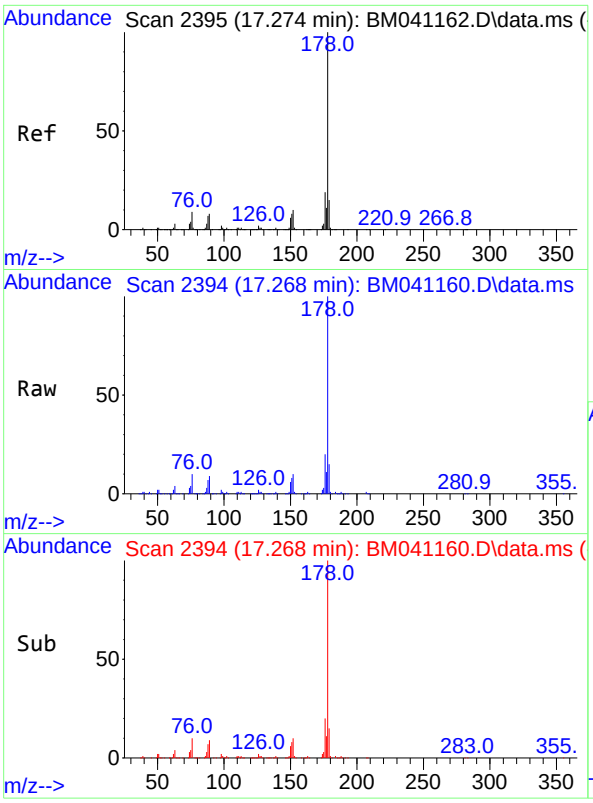


#70
Pentachlorophenol
Concen: 8.868 ng
RT: 16.880 min Scan# 2328
Delta R.T. -0.000 min
Lab File: BM041160.D
Acq: 28 Jul 2023 11:29

Tgt Ion:266 Resp: 48477

Ion	Ratio	Lower	Upper
266	100		
268	63.0	51.0	76.6
264	60.0	49.4	74.2

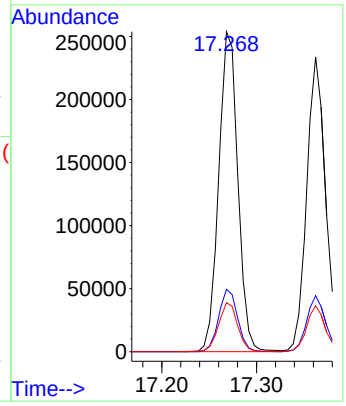




#71
Phenanthrene
Concen: 9.918 ng
RT: 17.268 min Scan# 2
Delta R.T. -0.006 min
Lab File: BM041160.D
Acq: 28 Jul 2023 11:29

Tgt Ion:178 Resp: 35682

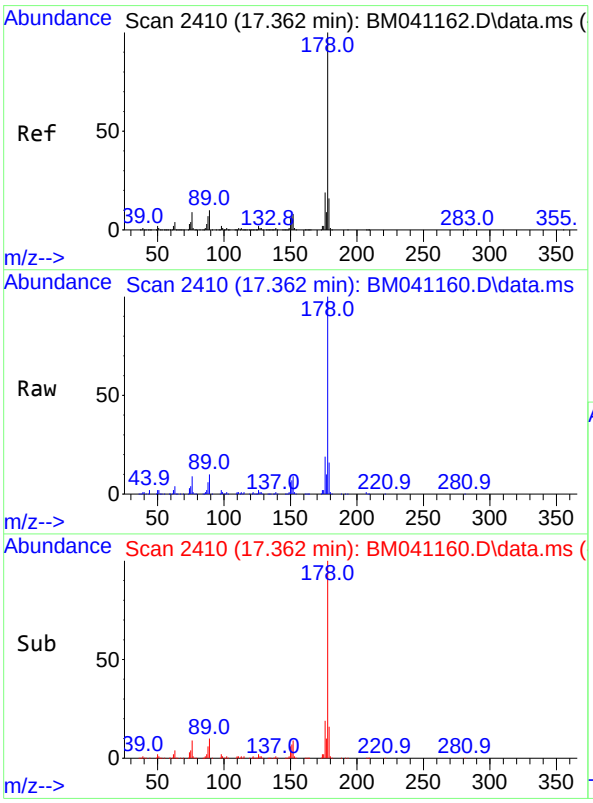
Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.6	23.4
179	15.3	12.1	18.1



Instrument :
BNA_M
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

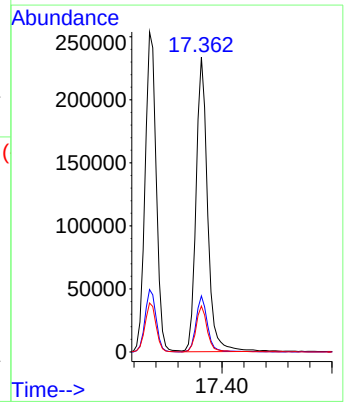
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

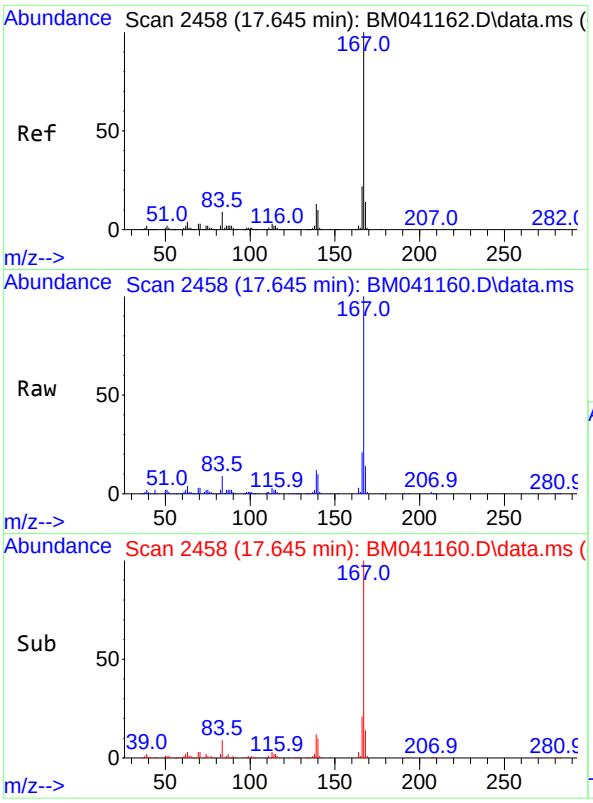


#72
Anthracene
Concen: 9.523 ng
RT: 17.362 min Scan# 2410
Delta R.T. -0.000 min
Lab File: BM041160.D
Acq: 28 Jul 2023 11:29

Tgt Ion:178 Resp: 338834

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.2	22.8
179	15.6	12.4	18.6

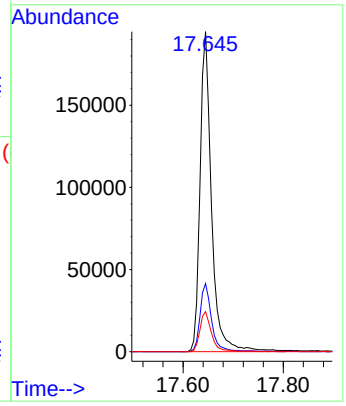




#73
Carbazole
Concen: 9.566 ng
RT: 17.645 min Scan# 24
Delta R.T. -0.000 min
Lab File: BM041160.D
Acq: 28 Jul 2023 11:29

Tgt Ion:167 Resp: 30807

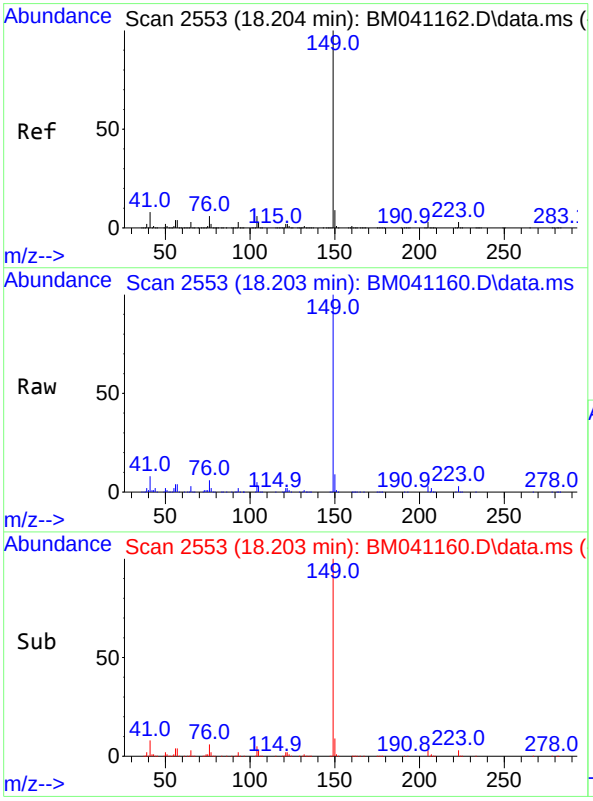
Ion	Ratio	Lower	Upper
167	100		
166	21.3	17.3	25.9
139	12.5	10.3	15.5



Instrument :
BNA_M
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

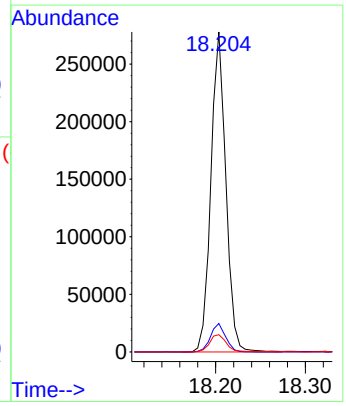
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

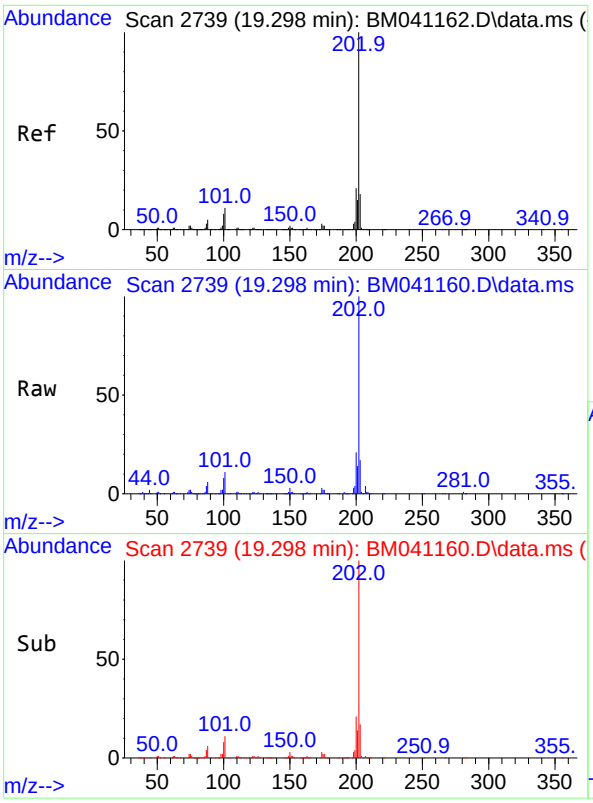


#74
Di-n-butylphthalate
Concen: 8.828 ng
RT: 18.203 min Scan# 2553
Delta R.T. -0.000 min
Lab File: BM041160.D
Acq: 28 Jul 2023 11:29

Tgt Ion:149 Resp: 321260

Ion	Ratio	Lower	Upper
149	100		
150	8.9	7.3	10.9
104	5.4	4.5	6.7

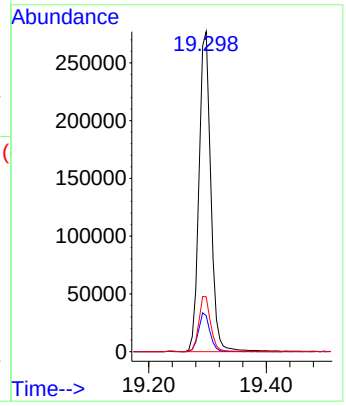




#75
Fluoranthene
Concen: 9.541 ng
RT: 19.298 min Scan# 2
Delta R.T. -0.000 min
Lab File: BM041160.D
Acq: 28 Jul 2023 11:29

Tgt Ion:202 Resp: 38561

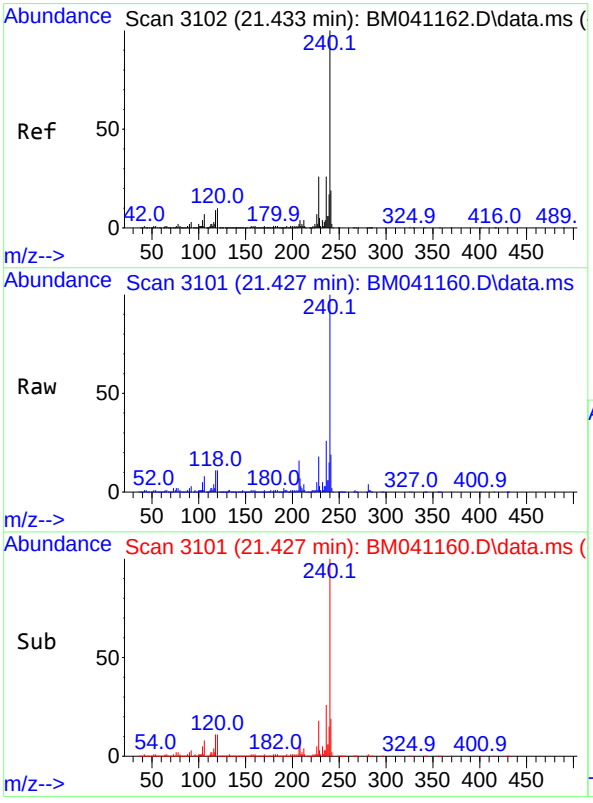
Ion	Ratio	Lower	Upper
202	100		
101	11.3	0.0	30.8
203	17.1	0.0	37.6



Instrument :
BNA_M
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

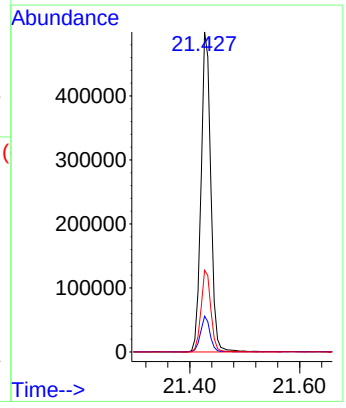
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

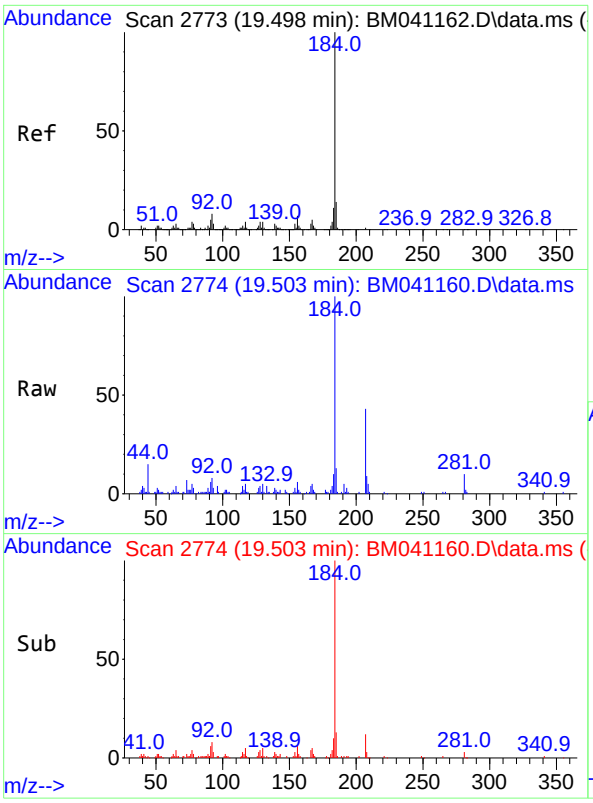


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.427 min Scan# 3101
Delta R.T. -0.006 min
Lab File: BM041160.D
Acq: 28 Jul 2023 11:29

Tgt Ion:240 Resp: 616295

Ion	Ratio	Lower	Upper
240	100		
120	11.2	8.3	12.5
236	25.6	20.6	30.8

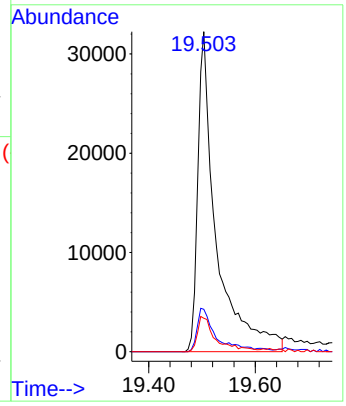




#77
Benzidine
Concen: 9.237 ng
RT: 19.503 min Scan# 2
Delta R.T. 0.005 min
Lab File: BM041160.D
Acq: 28 Jul 2023 11:29

Tgt Ion:184 Resp: 7794

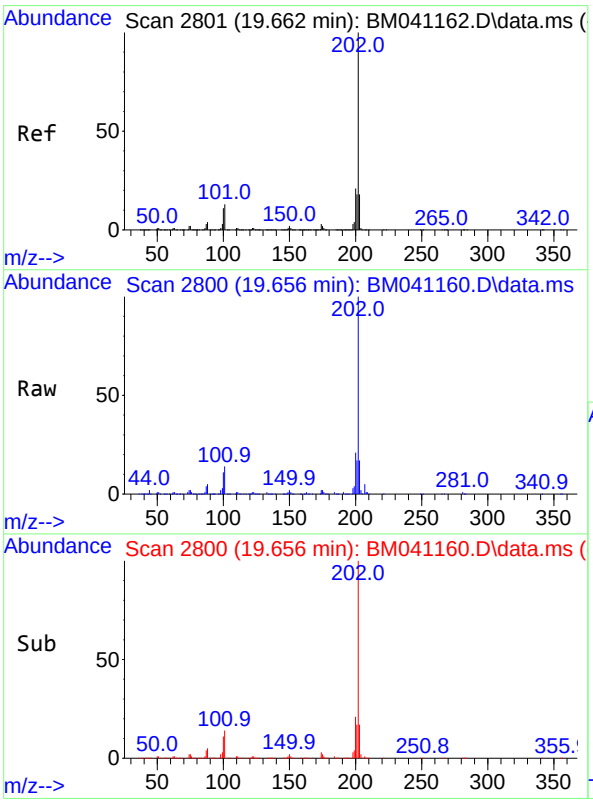
Ion	Ratio	Lower	Upper
184	100		
185	13.2	11.4	17.0
183	10.5	9.2	13.8



Instrument :
BNA_M
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

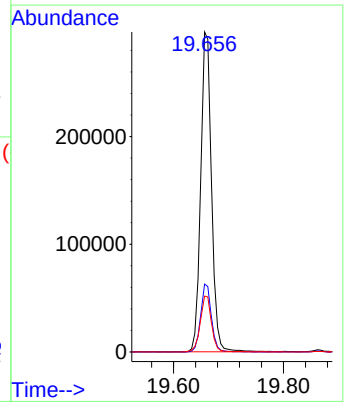
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

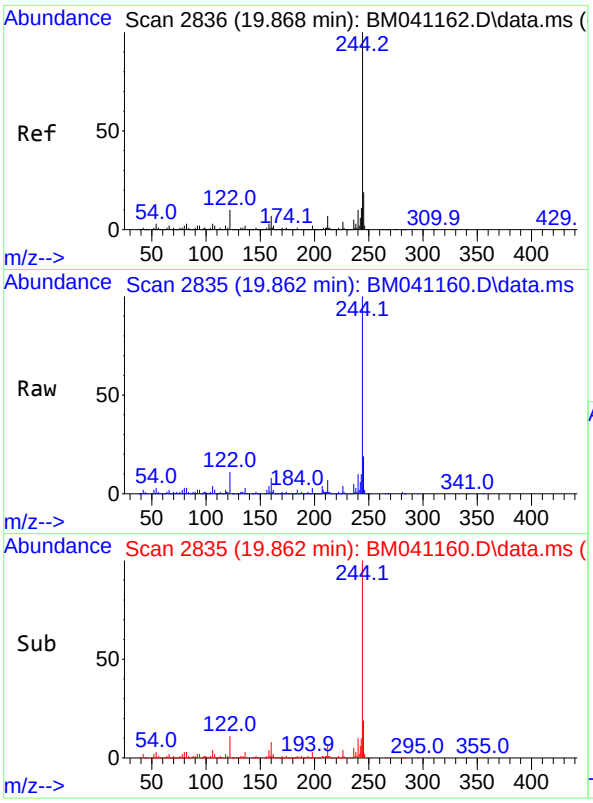


#78
Pyrene
Concen: 9.418 ng
RT: 19.656 min Scan# 2800
Delta R.T. -0.006 min
Lab File: BM041160.D
Acq: 28 Jul 2023 11:29

Tgt Ion:202 Resp: 405917

Ion	Ratio	Lower	Upper
202	100		
200	21.2	16.9	25.3
203	17.5	14.1	21.1

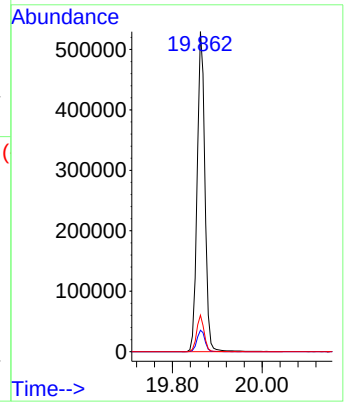




#79
Terphenyl-d14
Concen: 18.581 ng
RT: 19.862 min Scan# 2
Delta R.T. -0.006 min
Lab File: BM041160.D
Acq: 28 Jul 2023 11:29

Tgt Ion:244 Resp: 63336

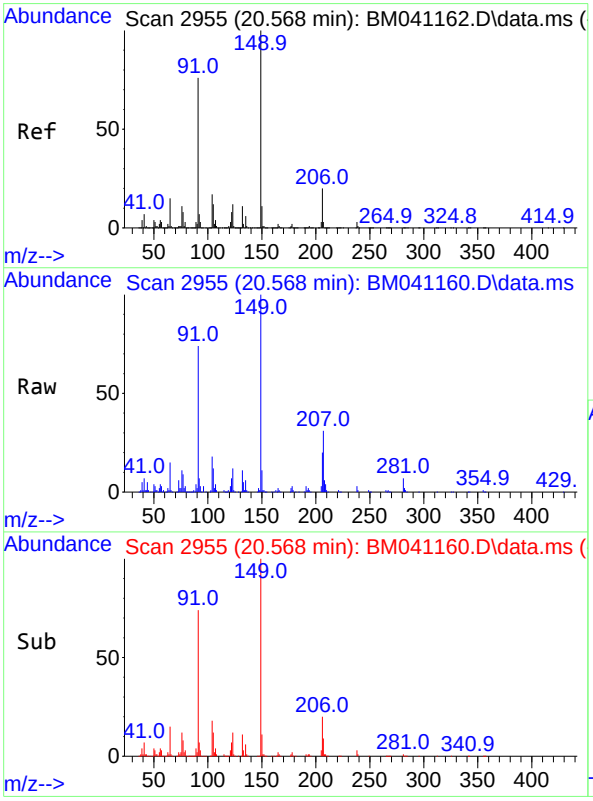
Ion	Ratio	Lower	Upper
244	100		
212	6.7	5.4	8.2
122	11.4	7.8	11.6



Instrument :
BNA_M
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

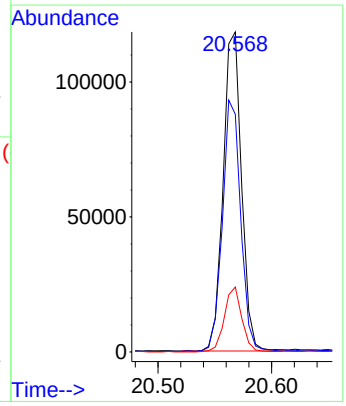
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

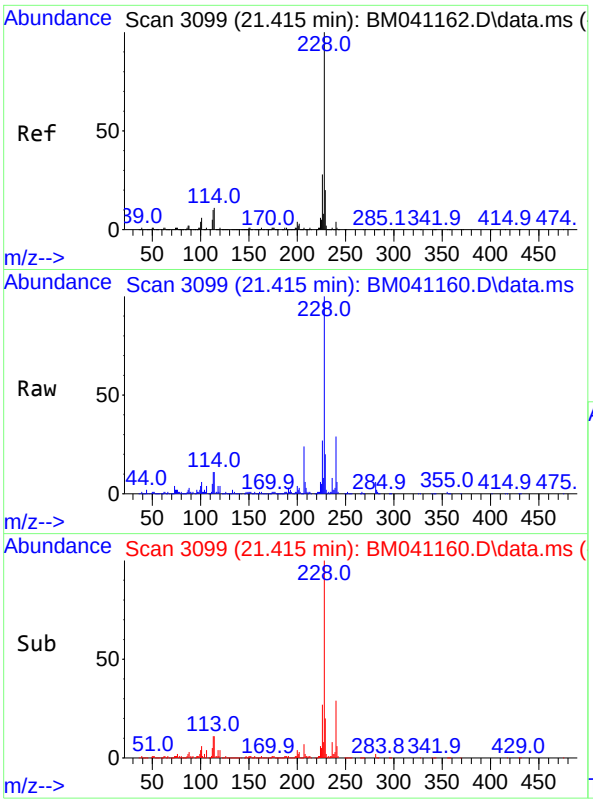


#80
Butylbenzylphthalate
Concen: 8.455 ng
RT: 20.568 min Scan# 2955
Delta R.T. 0.000 min
Lab File: BM041160.D
Acq: 28 Jul 2023 11:29

Tgt Ion:149 Resp: 133067

Ion	Ratio	Lower	Upper
149	100		
91	74.2	60.8	91.2
206	20.3	16.4	24.6

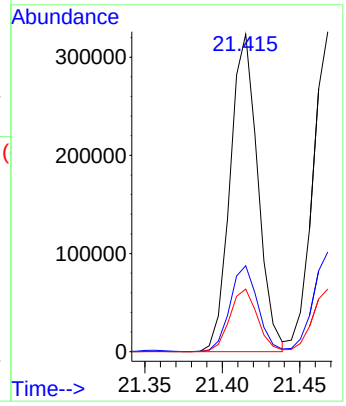




#81
Benzo(a)anthracene
Concen: 9.597 ng
RT: 21.415 min Scan# 3
Delta R.T. -0.000 min
Lab File: BM041160.D
Acq: 28 Jul 2023 11:29

Tgt Ion:228 Resp: 40097

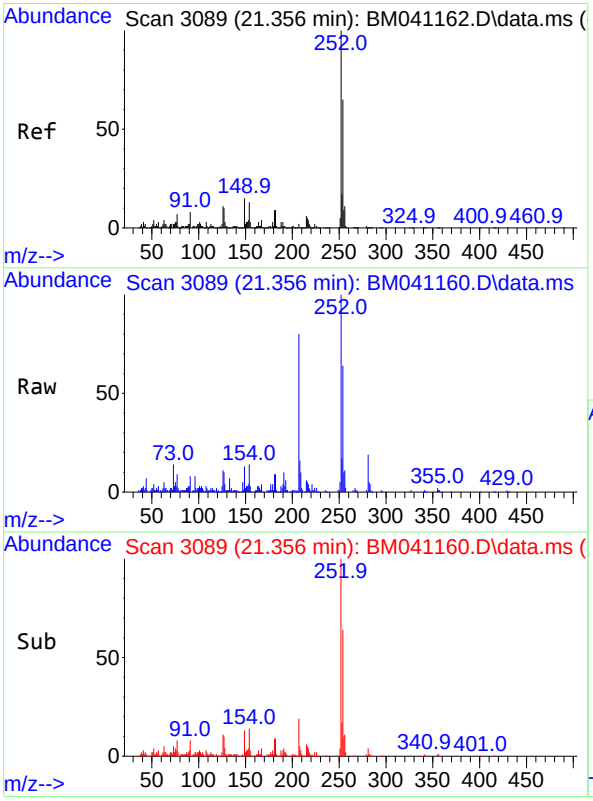
Ion	Ratio	Lower	Upper
228	100		
226	27.1	22.4	33.6
229	19.7	15.8	23.8



Instrument :
BNA_M
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

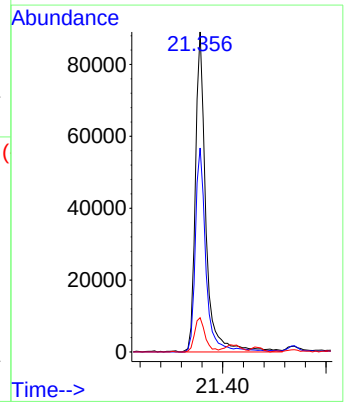
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

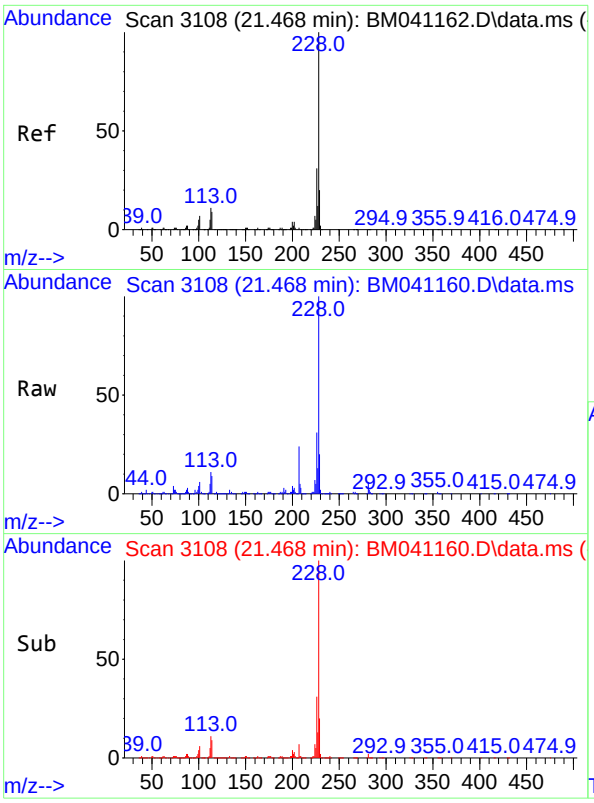


#82
3,3'-Dichlorobenzidine
Concen: 9.210 ng
RT: 21.356 min Scan# 3089
Delta R.T. -0.000 min
Lab File: BM041160.D
Acq: 28 Jul 2023 11:29

Tgt Ion:252 Resp: 125559

Ion	Ratio	Lower	Upper
252	100		
254	63.8	51.8	77.6
126	10.7	8.6	13.0

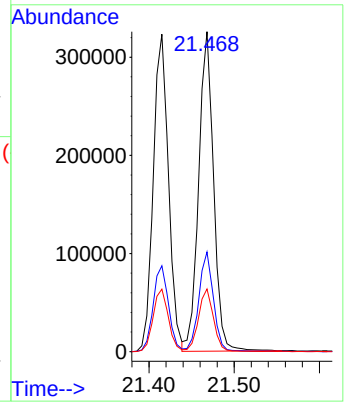




#83
Chrysene
Concen: 9.805 ng
RT: 21.468 min Scan# 3
Delta R.T. -0.000 min
Lab File: BM041160.D
Acq: 28 Jul 2023 11:29

Tgt Ion:228 Resp: 39621

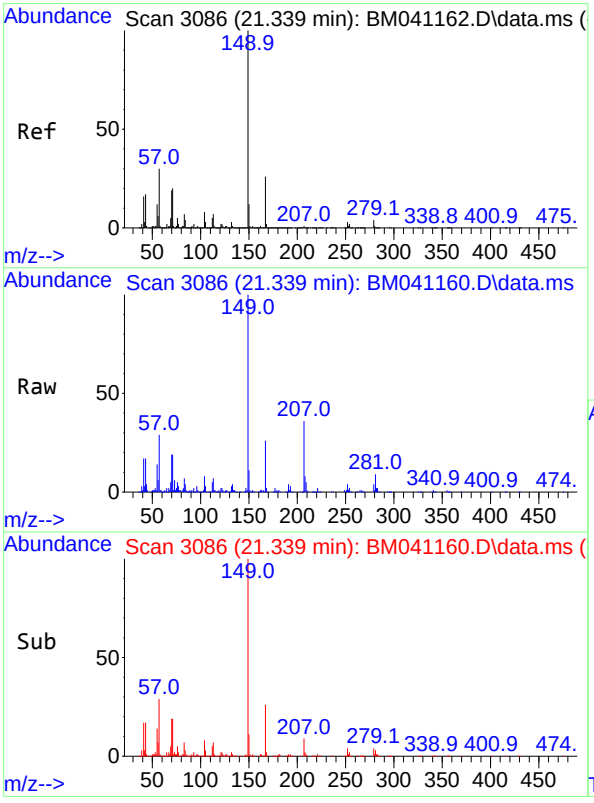
Ion	Ratio	Lower	Upper
228	100		
226	31.2	24.5	36.7
229	19.6	15.8	23.8



Instrument :
BNA_M
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

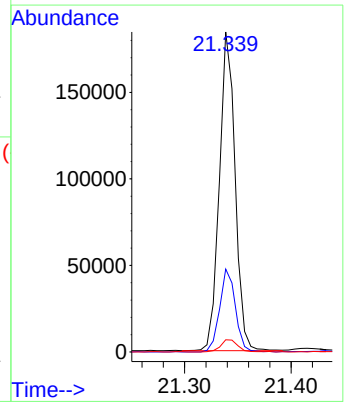
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

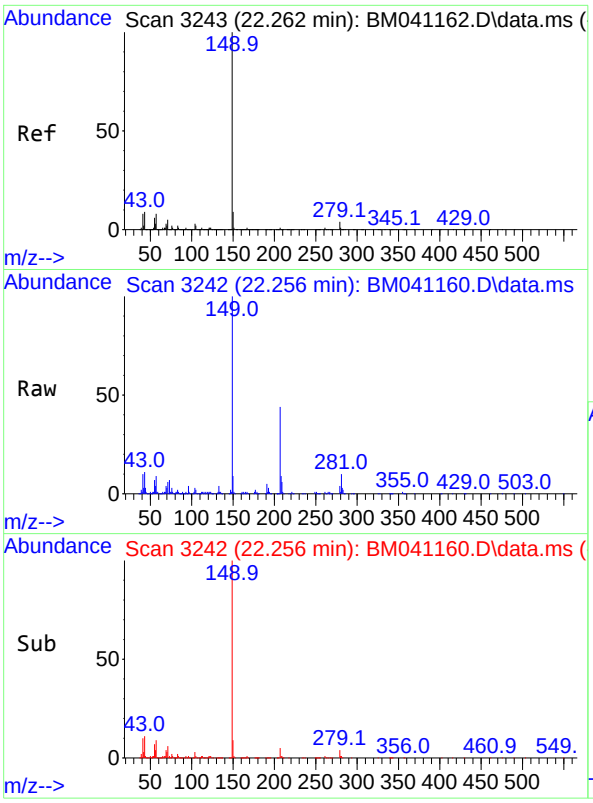


#84
Bis(2-ethylhexyl)phthalate
Concen: 9.697 ng
RT: 21.339 min Scan# 3086
Delta R.T. -0.000 min
Lab File: BM041160.D
Acq: 28 Jul 2023 11:29

Tgt Ion:149 Resp: 188904

Ion	Ratio	Lower	Upper
149	100		
167	25.9	21.0	31.6
279	3.8	3.1	4.7

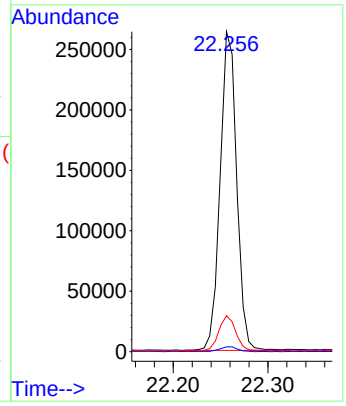




#85
Di-n-octyl phthalate
Concen: 8.055 ng
RT: 22.256 min Scan# 3
Delta R.T. -0.006 min
Lab File: BM041160.D
Acq: 28 Jul 2023 11:29

Tgt Ion:149 Resp: 32040

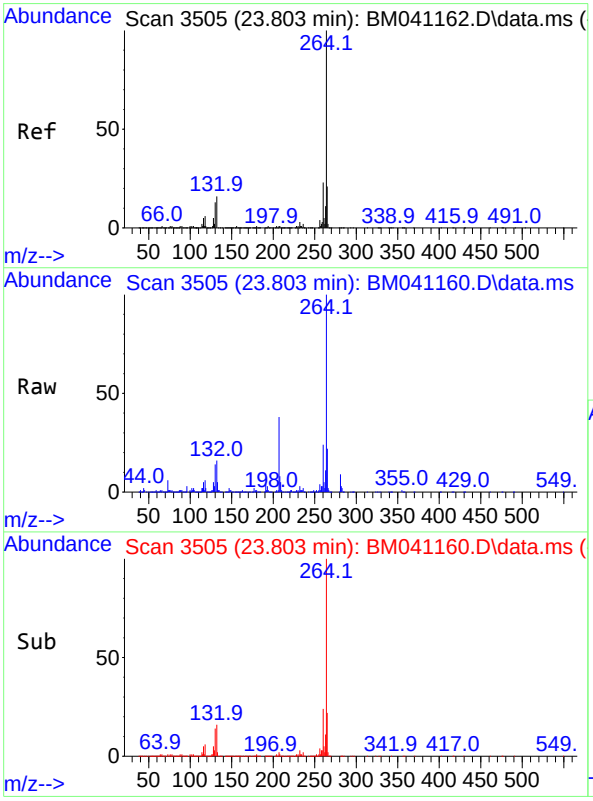
Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.2	1.8
43	11.3	8.3	12.5



Instrument :
BNA_M
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

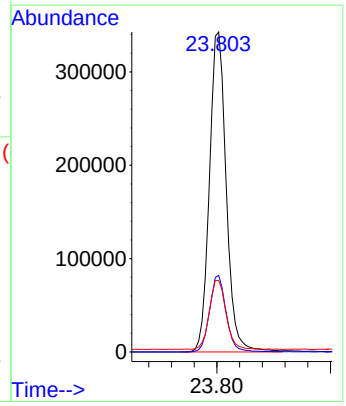
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

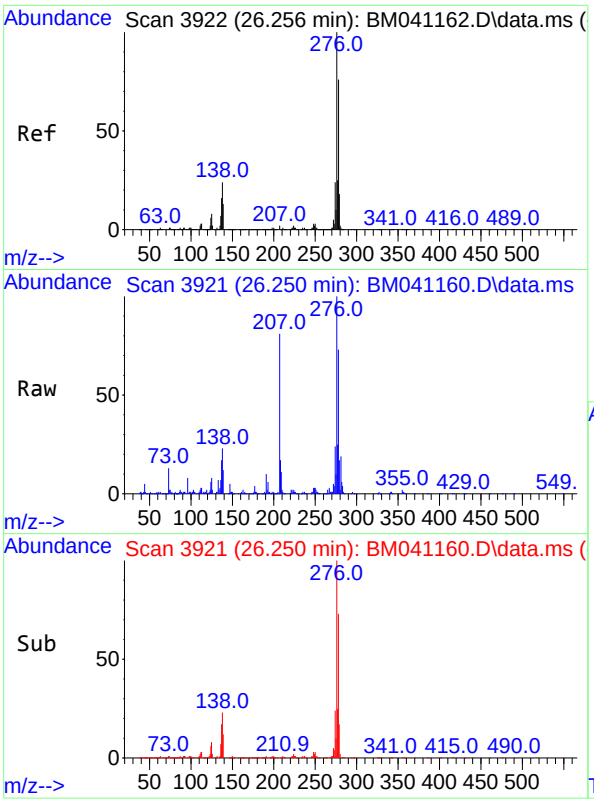


#86
Perylene-d12
Concen: 20.000 ng
RT: 23.803 min Scan# 3505
Delta R.T. -0.000 min
Lab File: BM041160.D
Acq: 28 Jul 2023 11:29

Tgt Ion:264 Resp: 703039

Ion	Ratio	Lower	Upper
264	100		
260	24.0	18.5	27.7
265	22.4	17.4	26.0

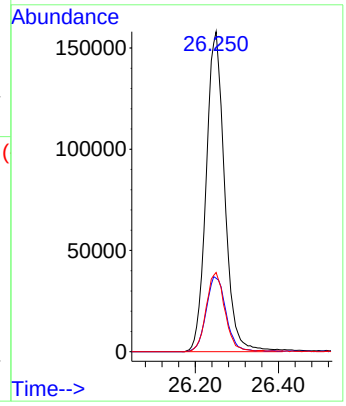




#87
Indeno(1,2,3-cd)pyrene
Concen: 9.435 ng
RT: 26.250 min Scan# 3
Delta R.T. -0.006 min
Lab File: BM041160.D
Acq: 28 Jul 2023 11:29

Tgt Ion:276 Resp: 48767

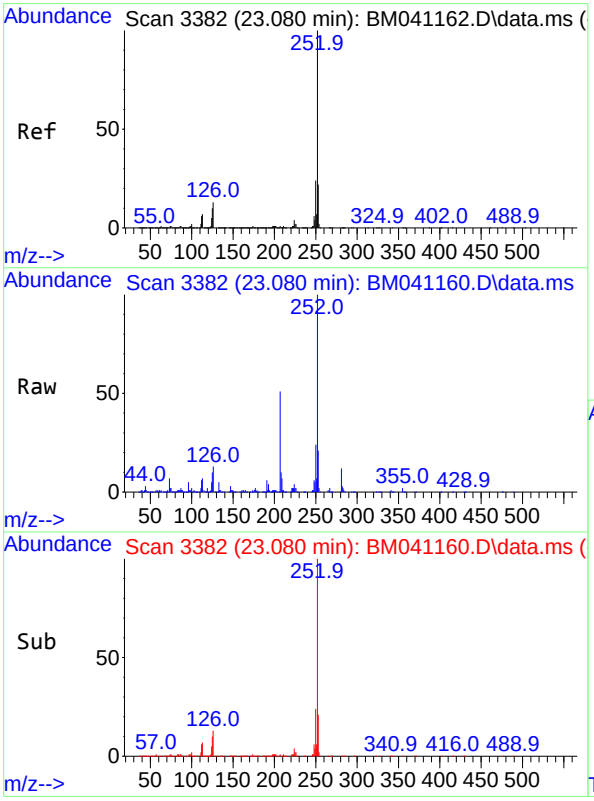
Ion	Ratio	Lower	Upper
276	100		
138	25.1	20.0	30.0
277	25.0	20.1	30.1



Instrument :
BNA_M
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

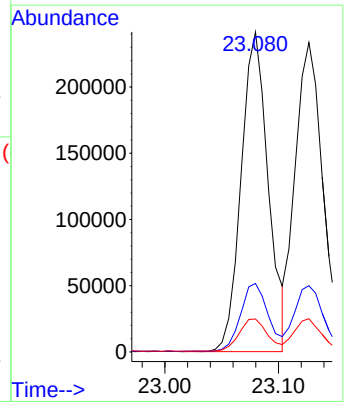
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

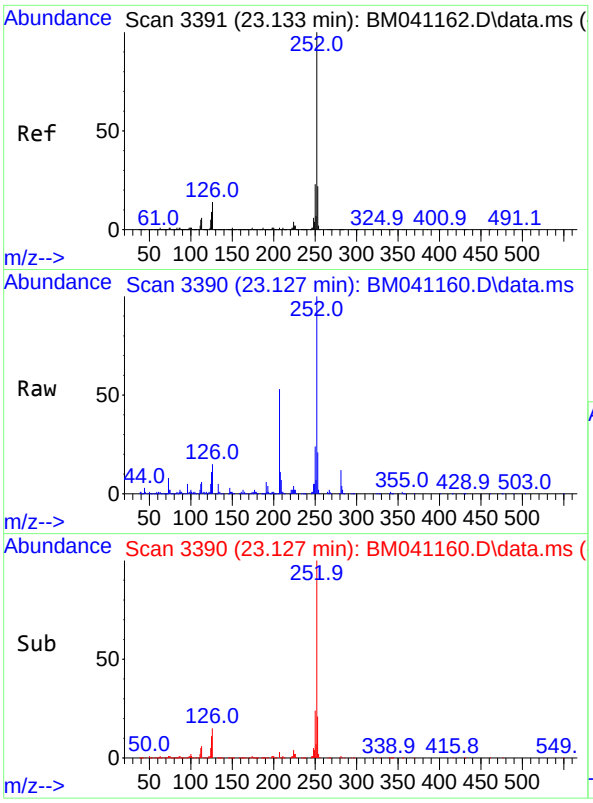


#88
Benzo(b)fluoranthene
Concen: 9.575 ng
RT: 23.080 min Scan# 3382
Delta R.T. -0.000 min
Lab File: BM041160.D
Acq: 28 Jul 2023 11:29

Tgt Ion:252 Resp: 399916

Ion	Ratio	Lower	Upper
252	100		
253	21.4	17.7	26.5
125	10.3	8.2	12.4

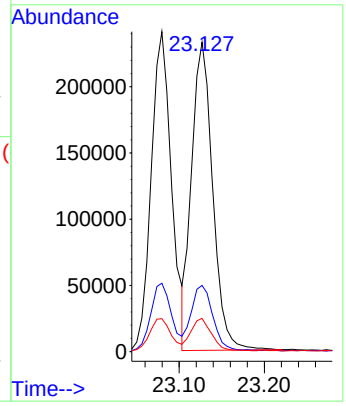




#89
Benzo(k)fluoranthene
Concen: 9.370 ng
RT: 23.127 min Scan# 3
Delta R.T. -0.006 min
Lab File: BM041160.D
Acq: 28 Jul 2023 11:29

Tgt Ion:252 Resp: 40031

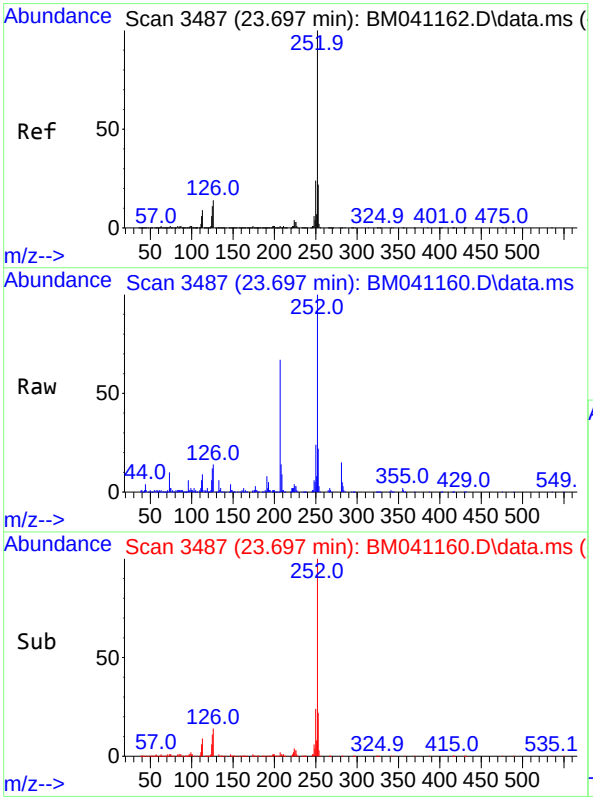
Ion	Ratio	Lower	Upper
252	100		
253	21.4	17.4	26.0
125	10.8	7.6	11.4



Instrument :
BNA_M
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

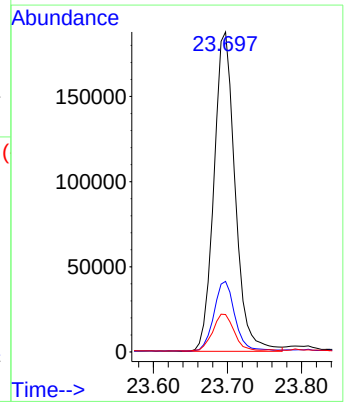
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

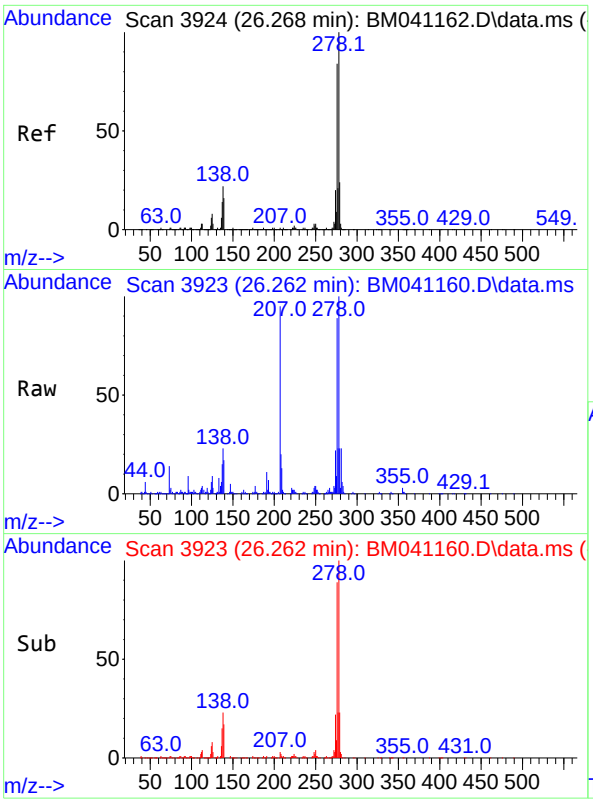


#90
Benzo(a)pyrene
Concen: 9.272 ng
RT: 23.697 min Scan# 3487
Delta R.T. -0.000 min
Lab File: BM041160.D
Acq: 28 Jul 2023 11:29

Tgt Ion:252 Resp: 372093

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.3	25.9
125	11.7	9.0	13.4

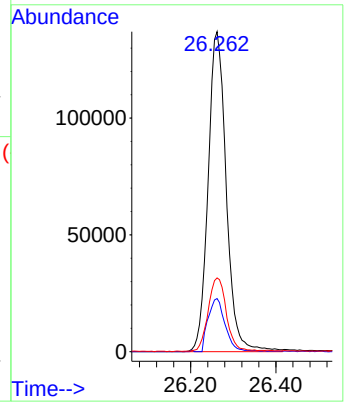




#91
Dibenzo(a,h)anthracene
Concen: 9.397 ng
RT: 26.262 min Scan# 3
Delta R.T. -0.006 min
Lab File: BM041160.D
Acq: 28 Jul 2023 11:29

Tgt Ion:278 Resp: 40513

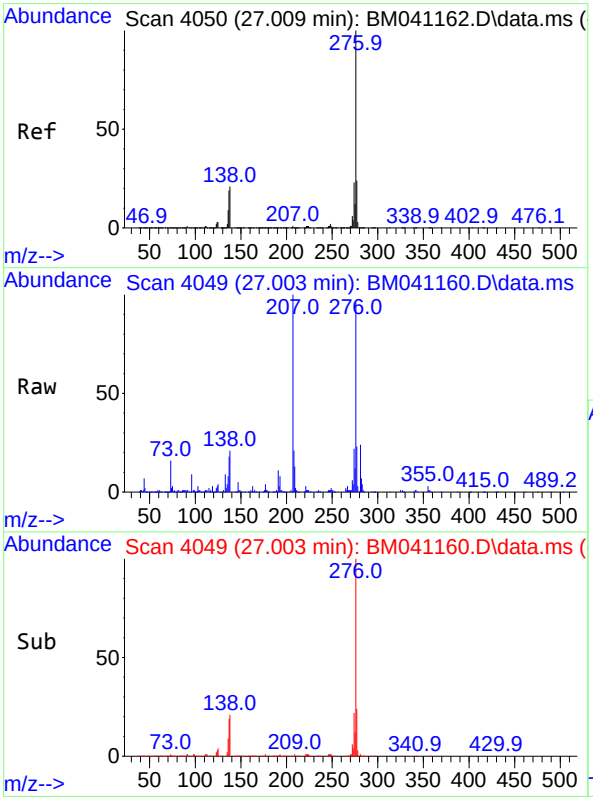
Ion	Ratio	Lower	Upper
278	100		
139	16.6	12.7	19.1
279	23.1	19.1	28.7



Instrument :
BNA_M
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

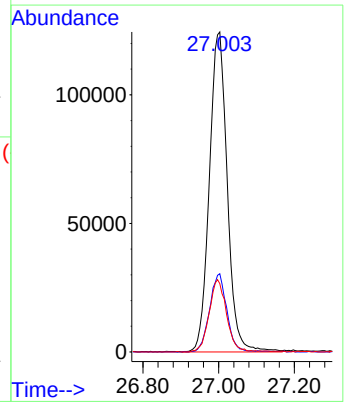
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023



#92
Benzo(g,h,i)perylene
Concen: 9.672 ng
RT: 27.003 min Scan# 4049
Delta R.T. -0.006 min
Lab File: BM041160.D
Acq: 28 Jul 2023 11:29

Tgt Ion:276 Resp: 408012

Ion	Ratio	Lower	Upper
276	100		
277	24.4	19.1	28.7
138	21.3	17.1	25.7



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM072823\
Data File : BM041161.D
Acq On : 28 Jul 2023 12:06
Operator : MA/JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

Quant Time: Jul 29 00:06:02 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 28 23:54:24 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.804	152	176902	20.000	ng		0.00
21) Naphthalene-d8	10.610	136	673762	20.000	ng		0.00
39) Acenaphthene-d10	14.468	164	368953	20.000	ng		0.00
64) Phenanthrene-d10	17.227	188	741601	20.000	ng		0.00
76) Chrysene-d12	21.433	240	670247	20.000	ng		0.00
86) Perylene-d12	23.803	264	743228	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.369	112	493449	41.690	ng		0.00
7) Phenol-d6	6.981	99	651856	42.487	ng		0.00
23) Nitrobenzene-d5	8.981	82	596245	41.154	ng		0.00
42) 2,4,6-Tribromophenol	15.968	330	210403	40.318	ng		0.00
45) 2-Fluorobiphenyl	13.086	172	1194102	40.885	ng		0.00
79) Terphenyl-d14	19.862	244	1507692	40.671	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.263	88	106404	21.014	ng		99
3) Pyridine	3.675	79	284742	21.455	ng		99
4) n-Nitrosodimethylamine	3.587	42	131136	21.297	ng	#	99
6) Aniline	7.140	93	384363	21.407	ng		99
8) 2-Chlorophenol	7.369	128	244939	21.198	ng		99
9) Benzaldehyde	6.951	77	178038	21.968	ng		99
10) Phenol	7.004	94	314088	21.196	ng		98
11) bis(2-Chloroethyl)ether	7.240	93	255222	21.277	ng		98
12) 1,3-Dichlorobenzene	7.692	146	266806	21.212	ng		99
13) 1,4-Dichlorobenzene	7.840	146	265380	20.992	ng		99
14) 1,2-Dichlorobenzene	8.157	146	254660	21.009	ng		100
15) Benzyl Alcohol	8.057	79	197045	20.337	ng		98
16) 2,2'-oxybis(1-Chloropr...	8.345	45	343339m	21.483	ng		
17) 2-Methylphenol	8.257	107	215230	21.260	ng		99
18) Hexachloroethane	8.875	117	99138	21.064	ng		98
19) n-Nitroso-di-n-propyla...	8.622	70	201665	21.640	ng		99
20) 3+4-Methylphenols	8.592	107	290707	21.476	ng		97
22) Acetophenone	8.639	105	367142	20.575	ng	#	98
24) Nitrobenzene	9.022	77	302245	20.629	ng		98
25) Isophorone	9.545	82	506892	20.611	ng		99
26) 2-Nitrophenol	9.733	139	114156	19.931	ng		97
27) 2,4-Dimethylphenol	9.798	122	208423	20.680	ng		99
28) bis(2-Chloroethoxy)met...	10.033	93	319631	20.748	ng		99
29) 2,4-Dichlorophenol	10.269	162	210384	20.699	ng		98
30) 1,2,4-Trichlorobenzene	10.475	180	227605	20.269	ng		99
31) Naphthalene	10.663	128	753323	20.604	ng		99
32) Benzoic acid	9.922	122	112208	19.769	ng		96
33) 4-Chloroaniline	10.792	127	298510	20.430	ng		98
34) Hexachlorobutadiene	10.933	225	137591	20.373	ng		100
35) Caprolactam	11.586	113	55472	18.867	ng		96
36) 4-Chloro-3-methylphenol	11.922	107	218964	20.468	ng		98
37) 2-Methylnaphthalene	12.280	142	505823	20.521	ng		99
38) 1-Methylnaphthalene	12.504	142	472143	20.465	ng		98
40) 1,2,4,5-Tetrachloroben...	12.651	216	244591	20.416	ng		99
41) Hexachlorocyclopentadiene	12.616	237	117903	18.602	ng		100
43) 2,4,6-Trichlorophenol	12.898	196	156649	20.401	ng		98

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM072823\
Data File : BM041161.D
Acq On : 28 Jul 2023 12:06
Operator : MA/JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 29 00:06:02 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 28 23:54:24 2023
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.974	196	180722	20.334	ng	98
46) 1,1'-Biphenyl	13.298	154	614968	20.560	ng	99
47) 2-Chloronaphthalene	13.339	162	457487	20.484	ng	99
48) 2-Nitroaniline	13.569	65	142913	20.047	ng	98
49) Acenaphthylene	14.192	152	744159	20.644	ng	100
50) Dimethylphthalate	13.939	163	565077	20.361	ng	99
51) 2,6-Dinitrotoluene	14.063	165	117357	20.408	ng	92
52) Acenaphthene	14.533	154	444129	20.452	ng	97
53) 3-Nitroaniline	14.398	138	122358	19.978	ng	99
54) 2,4-Dinitrophenol	14.610	184	60018	20.163	ng	96
55) Dibenzofuran	14.874	168	726333	20.500	ng	100
56) 4-Nitrophenol	14.710	139	90764	18.938	ng	95
57) 2,4-Dinitrotoluene	14.857	165	150674	19.998	ng	99
58) Fluorene	15.521	166	571166	20.434	ng	99
59) 2,3,4,6-Tetrachlorophenol	15.104	232	146979	20.423	ng	99
60) Diethylphthalate	15.304	149	539834	20.114	ng	99
61) 4-Chlorophenyl-phenyle...	15.521	204	282568	20.174	ng	99
62) 4-Nitroaniline	15.568	138	100578	19.129	ng	97
63) Azobenzene	15.815	77	608710	20.705	ng	99
65) 4,6-Dinitro-2-methylph...	15.621	198	84205	18.743	ng	97
66) n-Nitrosodiphenylamine	15.739	169	471563	20.446	ng	98
67) 4-Bromophenyl-phenylether	16.415	248	164577	20.241	ng	97
68) Hexachlorobenzene	16.527	284	182180	20.149	ng	96
69) Atrazine	16.698	200	127115	20.986	ng	99
70) Pentachlorophenol	16.880	266	124812	19.936	ng	97
71) Phenanthrene	17.274	178	831963	20.191	ng	100
72) Anthracene	17.362	178	826633	20.285	ng	99
73) Carbazole	17.645	167	744968	20.198	ng	100
74) Di-n-butylphthalate	18.204	149	814741	19.548	ng	100
75) Fluoranthene	19.298	202	919034	19.853	ng	99
77) Benzidine	19.498	184	163044	17.766	ng	99
78) Pyrene	19.662	202	968211	20.657	ng	99
80) Butylbenzylphthalate	20.568	149	337756	19.733	ng	99
81) Benzo(a)anthracene	21.415	228	930916	20.488	ng	99
82) 3,3'-Dichlorobenzidine	21.356	252	300292	20.253	ng	100
83) Chrysene	21.468	228	897415	20.420	ng	99
84) Bis(2-ethylhexyl)phtha...	21.345	149	476891	19.155	ng	99
85) Di-n-octyl phthalate	22.262	149	794073	18.356	ng	99
87) Indeno(1,2,3-cd)pyrene	26.250	276	1097984	20.094	ng	100
88) Benzo(b)fluoranthene	23.080	252	877034	19.864	ng	99
89) Benzo(k)fluoranthene	23.127	252	923696	20.452	ng	99
90) Benzo(a)pyrene	23.697	252	854008	20.130	ng	100
91) Dibenzo(a,h)anthracene	26.262	278	907818	19.918	ng	99
92) Benzo(g,h,i)perylene	27.003	276	906297	20.322	ng	99

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

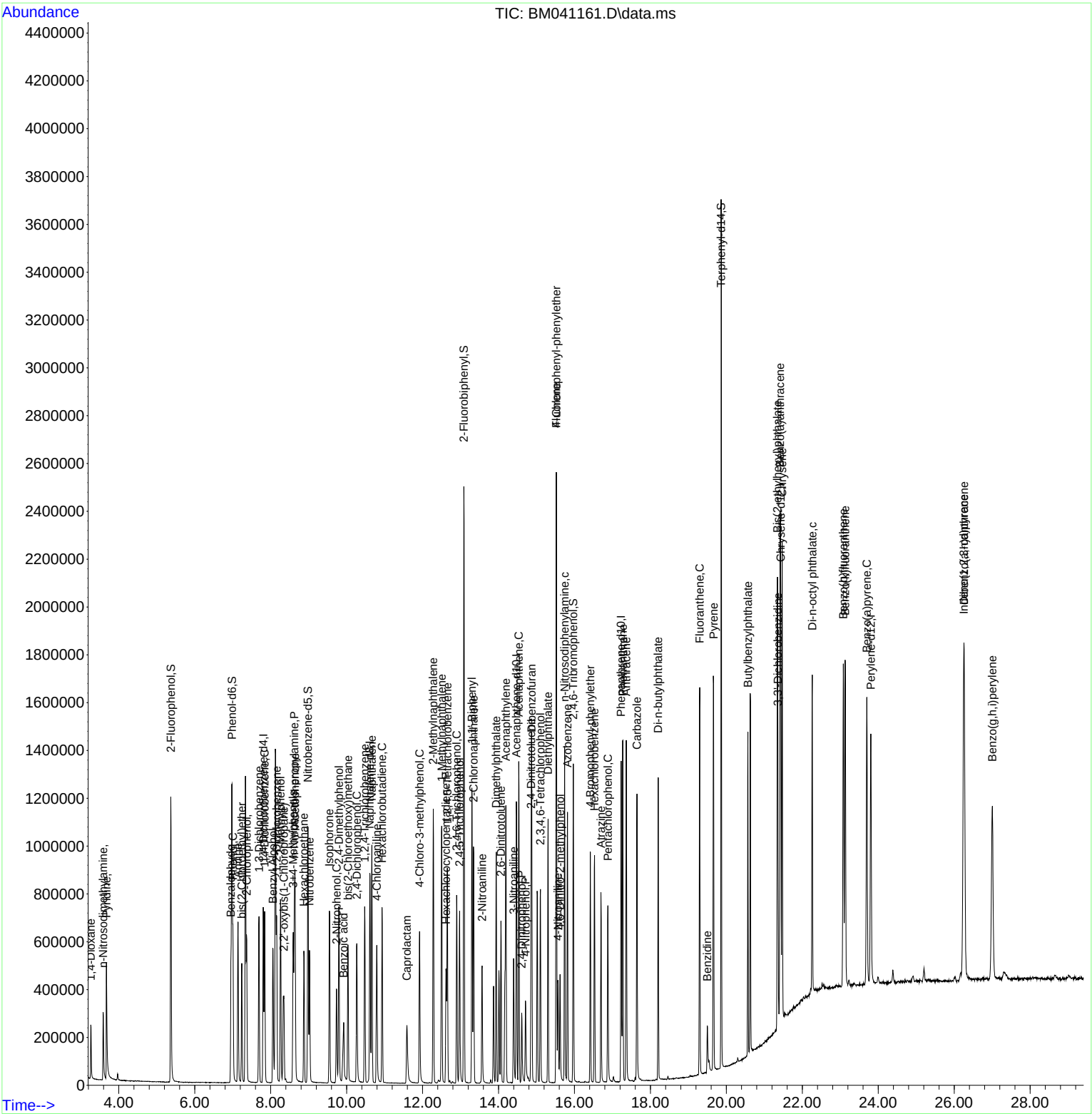
ICAL Form

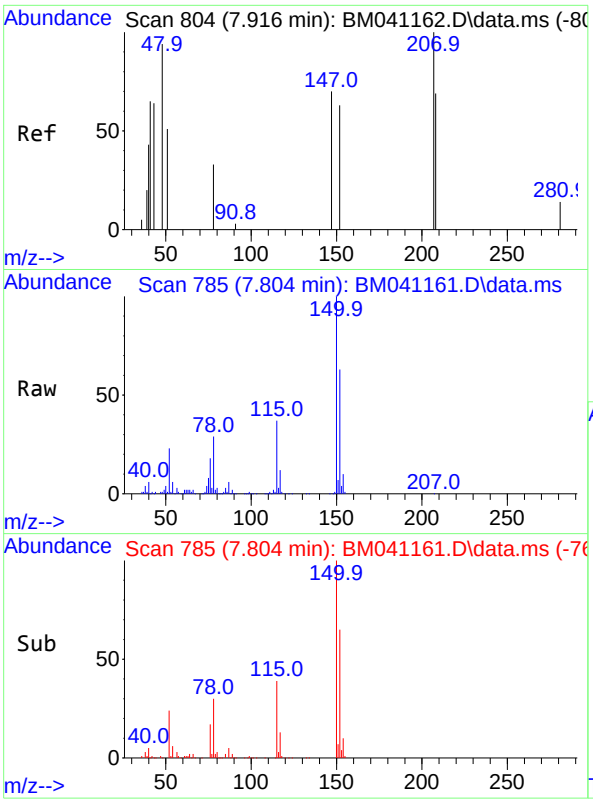
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM072823\
Data File : BM041161.D
Acq On : 28 Jul 2023 12:06
Operator : MA/JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 29 00:06:02 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 28 23:54:24 2023
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

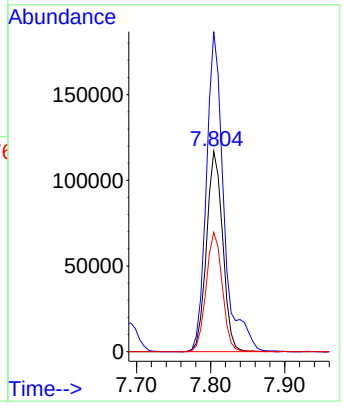




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.804 min Scan# 7
Delta R.T. 0.000 min
Lab File: BM041161.D
Acq: 28 Jul 2023 12:06

Tgt Ion:152 Resp: 17690

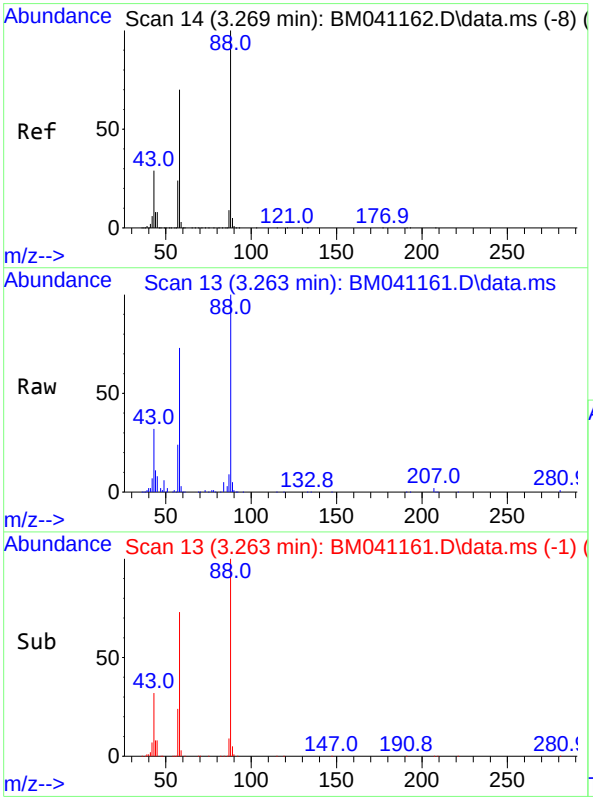
Ion	Ratio	Lower	Upper
152	100		
150	159.7	125.5	188.3
115	59.5	48.0	72.0



Instrument :
BNA_M
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

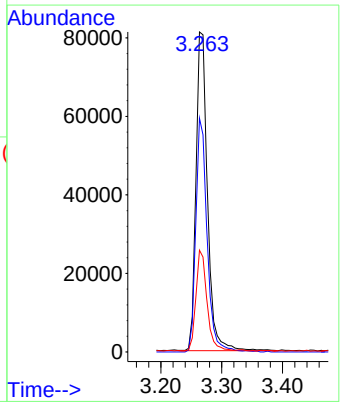
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

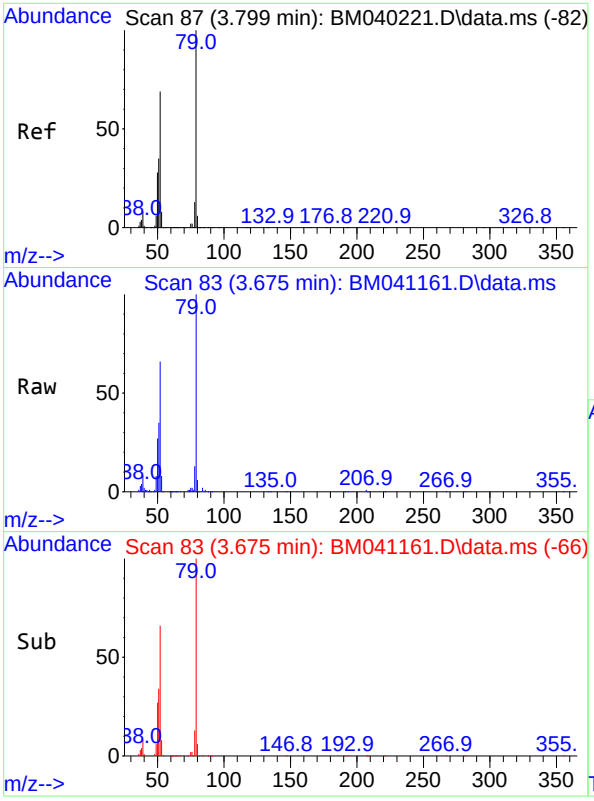


#2
1,4-Dioxane
Concen: 21.014 ng
RT: 3.263 min Scan# 13
Delta R.T. -0.006 min
Lab File: BM041161.D
Acq: 28 Jul 2023 12:06

Tgt Ion: 88 Resp: 106404

Ion	Ratio	Lower	Upper
88	100		
58	72.2	58.2	87.4
43	30.5	24.4	36.6

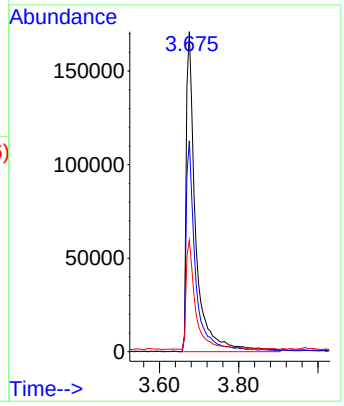




#3
Pyridine
Concen: 21.455 ng
RT: 3.675 min Scan# 8
Delta R.T. -0.000 min
Lab File: BM041161.D
Acq: 28 Jul 2023 12:06

Tgt Ion: 79 Resp: 28474

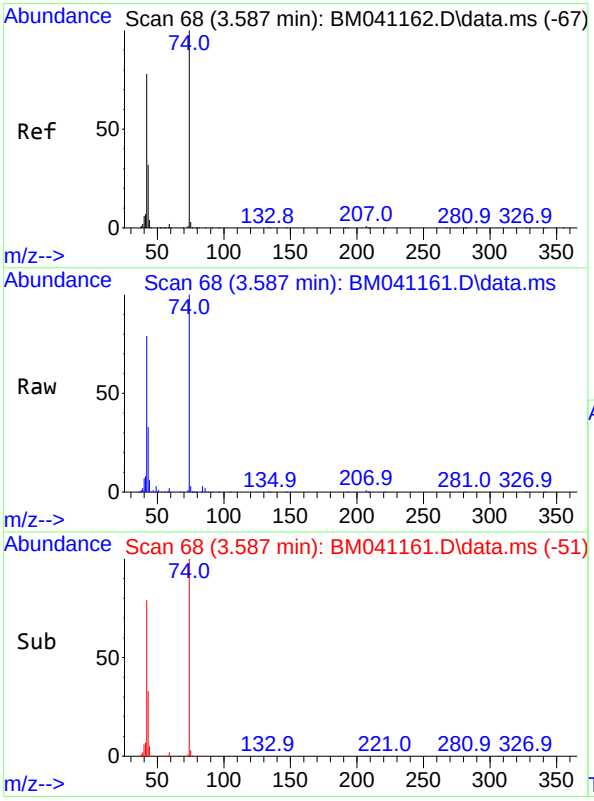
Ion	Ratio	Lower	Upper
79	100		
52	65.9	52.1	78.1
51	34.8	27.5	41.3



Instrument :
BNA_M
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

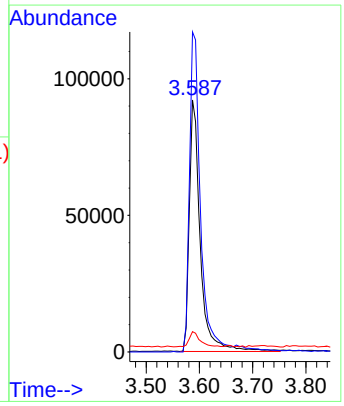
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

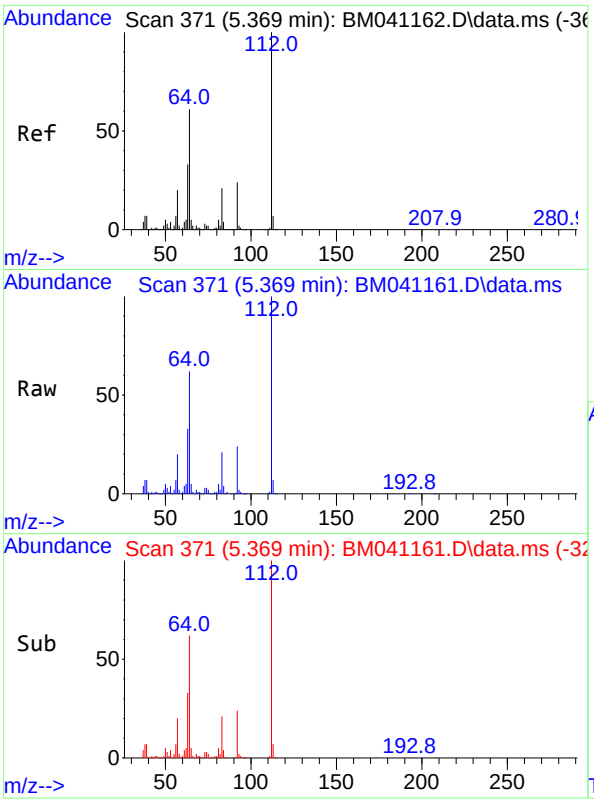


#4
n-Nitrosodimethylamine
Concen: 21.297 ng
RT: 3.587 min Scan# 68
Delta R.T. -0.000 min
Lab File: BM041161.D
Acq: 28 Jul 2023 12:06

Tgt Ion: 42 Resp: 131136

Ion	Ratio	Lower	Upper
42	100		
74	127.0	100.8	151.2
44	8.1	5.0	7.4#

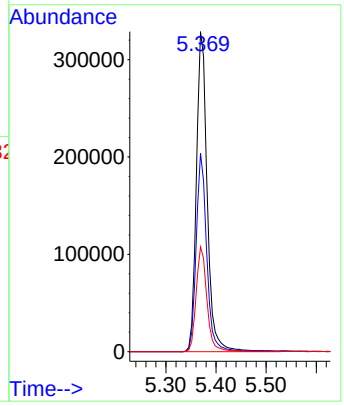




#5
2-Fluorophenol
Concen: 41.690 ng
RT: 5.369 min Scan# 3
Delta R.T. -0.000 min
Lab File: BM041161.D
Acq: 28 Jul 2023 12:06

Tgt Ion:112 Resp: 49344

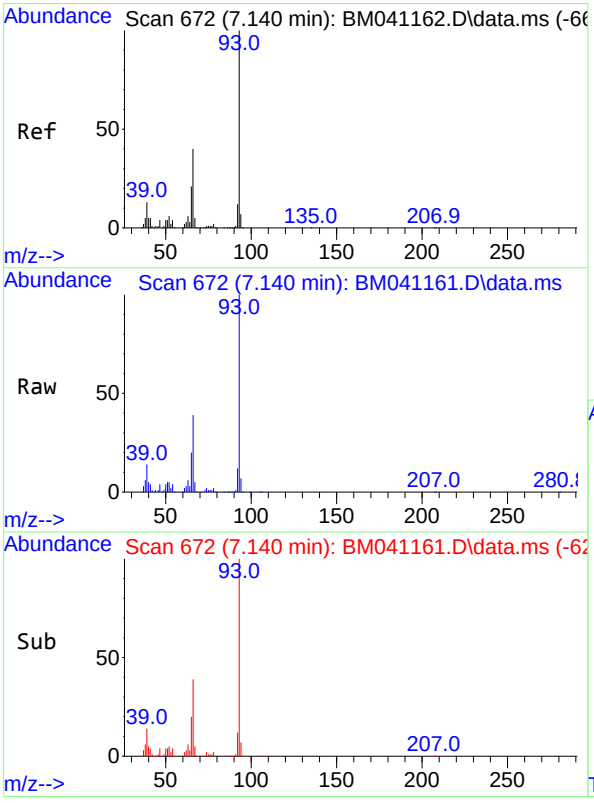
Ion	Ratio	Lower	Upper
112	100		
64	62.0	48.5	72.7
63	32.8	26.5	39.7



Instrument :
BNA_M
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

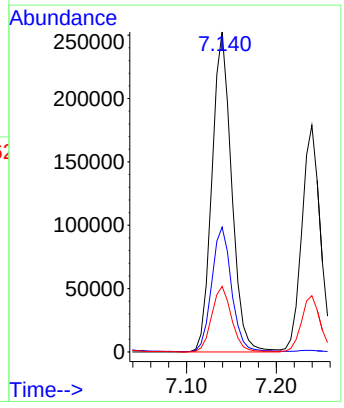
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

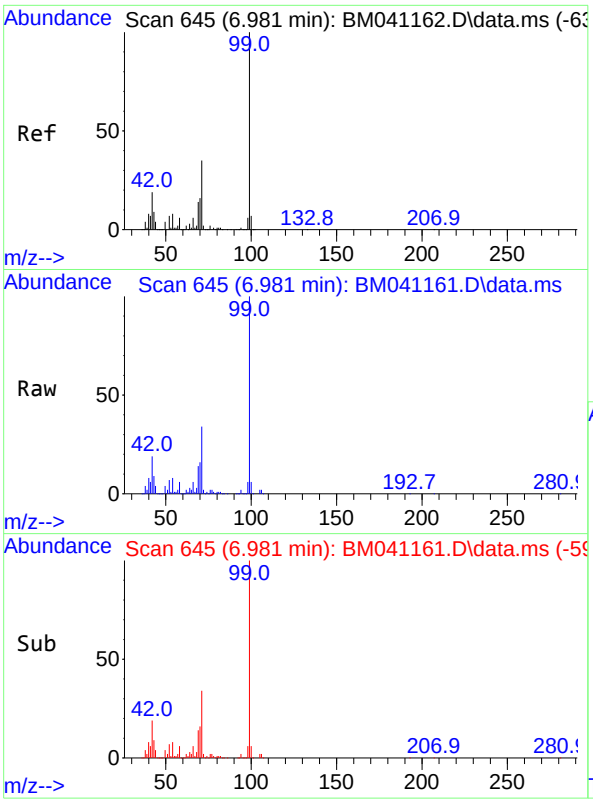


#6
Aniline
Concen: 21.407 ng
RT: 7.140 min Scan# 672
Delta R.T. -0.000 min
Lab File: BM041161.D
Acq: 28 Jul 2023 12:06

Tgt Ion: 93 Resp: 384363

Ion	Ratio	Lower	Upper
93	100		
66	39.0	32.0	48.0
65	20.5	16.6	24.8

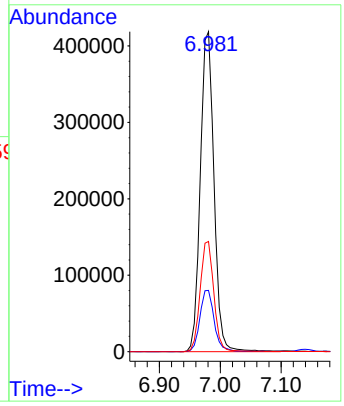




#7
Phenol-d6
Concen: 42.487 ng
RT: 6.981 min Scan# 64
Delta R.T. -0.000 min
Lab File: BM041161.D
Acq: 28 Jul 2023 12:06

Tgt Ion: 99 Resp: 65185

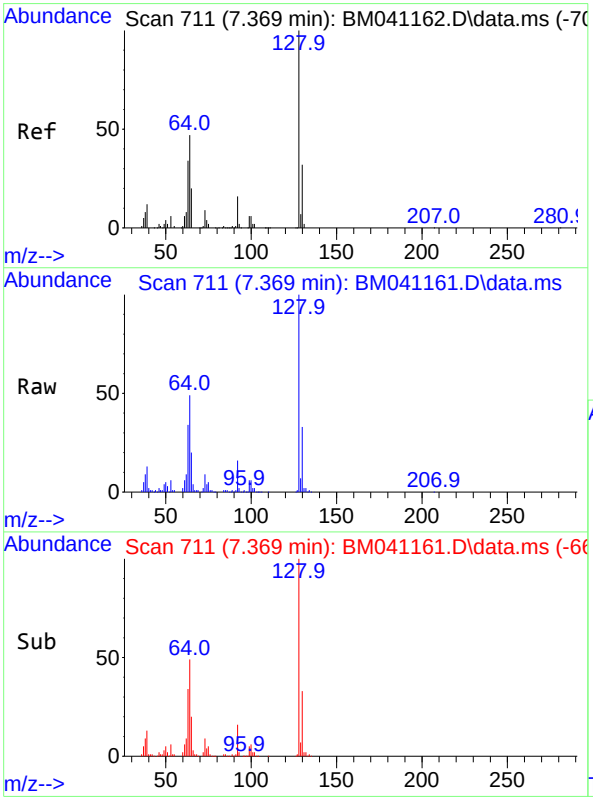
Ion	Ratio	Lower	Upper
99	100		
42	19.2	15.4	23.0
71	34.4	28.2	42.4



Instrument :
BNA_M
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

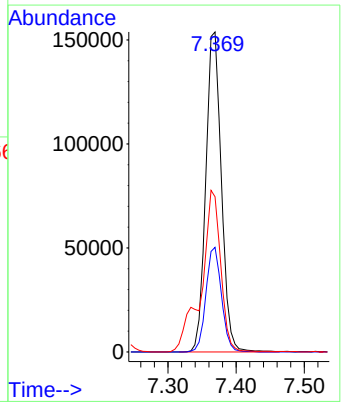
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

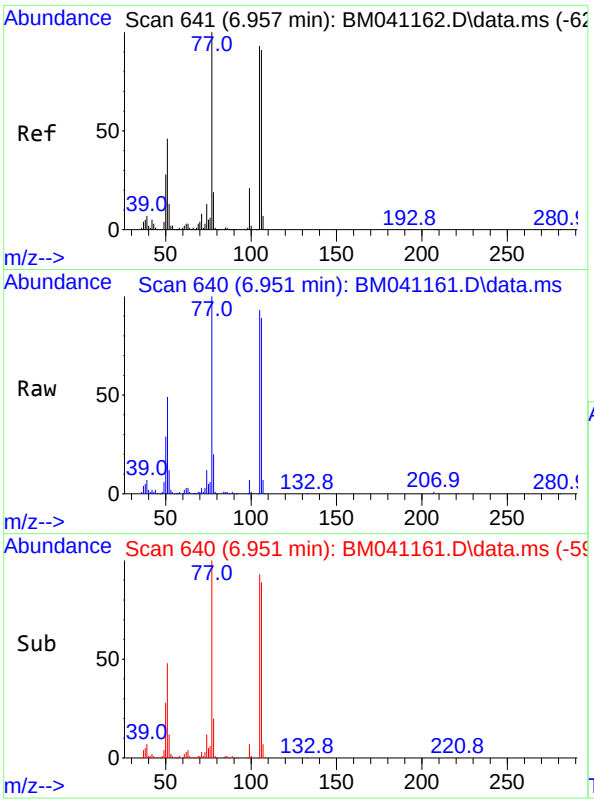


#8
2-Chlorophenol
Concen: 21.198 ng
RT: 7.369 min Scan# 711
Delta R.T. -0.000 min
Lab File: BM041161.D
Acq: 28 Jul 2023 12:06

Tgt Ion:128 Resp: 244939

Ion	Ratio	Lower	Upper
128	100		
130	32.7	12.3	52.3
64	48.5	29.3	69.3

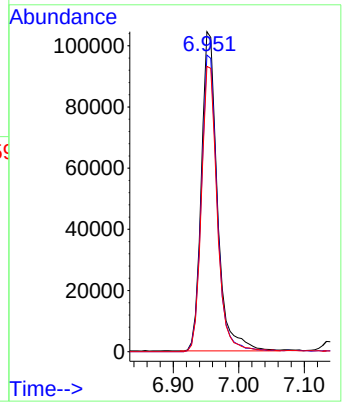




#9
Benzaldehyde
Concen: 21.968 ng
RT: 6.951 min Scan# 64
Delta R.T. -0.006 min
Lab File: BM041161.D
Acq: 28 Jul 2023 12:06

Tgt Ion: 77 Resp: 17803

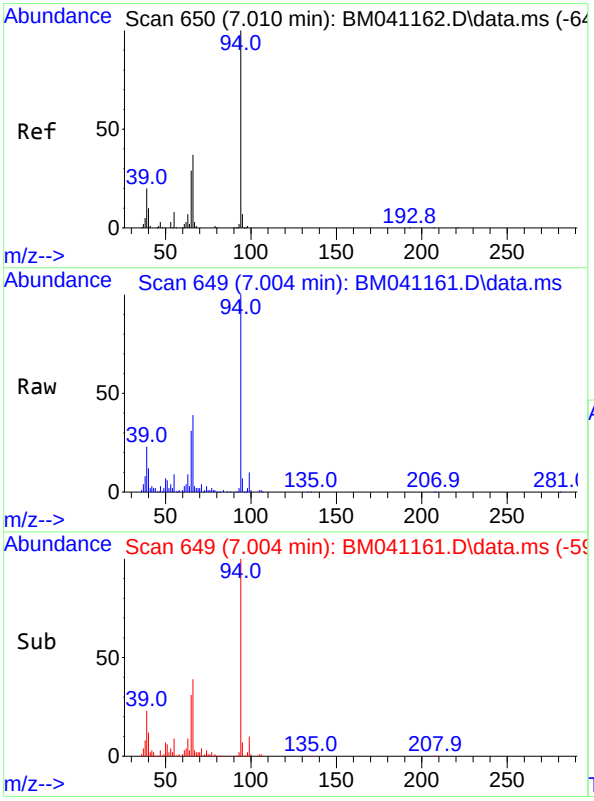
Ion	Ratio	Lower	Upper
77	100		
105	92.7	72.8	112.8
106	89.2	70.8	110.8



Instrument :
BNA_M
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

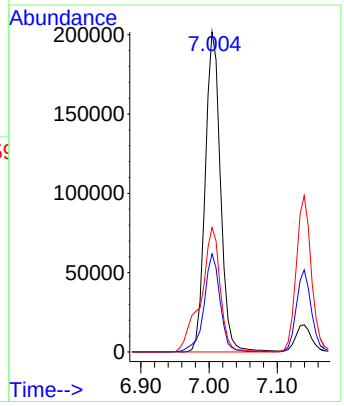
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

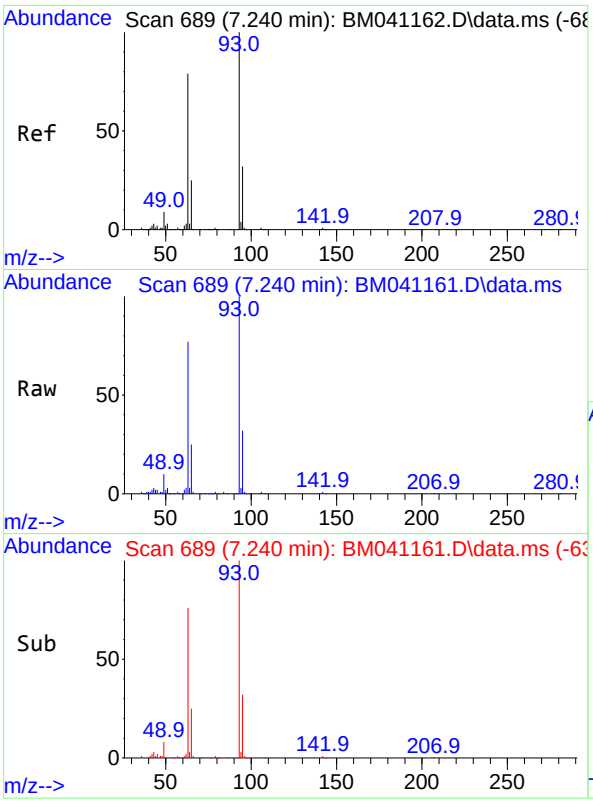


#10
Phenol
Concen: 21.196 ng
RT: 7.004 min Scan# 649
Delta R.T. -0.006 min
Lab File: BM041161.D
Acq: 28 Jul 2023 12:06

Tgt Ion: 94 Resp: 314088

Ion	Ratio	Lower	Upper
94	100		
65	30.7	9.5	49.5
66	38.9	18.0	58.0

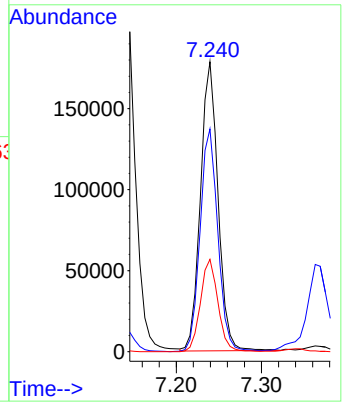




#11
bis(2-Chloroethyl)ether
Concen: 21.277 ng
RT: 7.240 min Scan# 6
Delta R.T. -0.000 min
Lab File: BM041161.D
Acq: 28 Jul 2023 12:06

Tgt Ion: 93 Resp: 25522

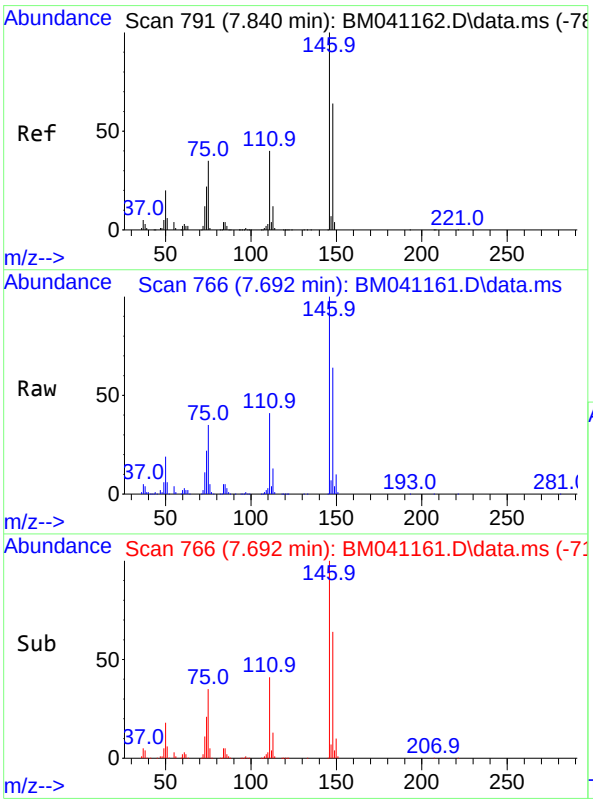
Ion	Ratio	Lower	Upper
93	100		
63	76.8	58.8	98.8
95	31.8	11.8	51.8



Instrument :
BNA_M
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

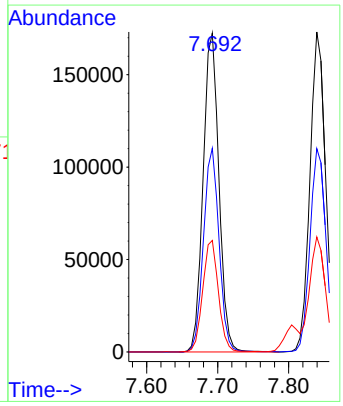
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

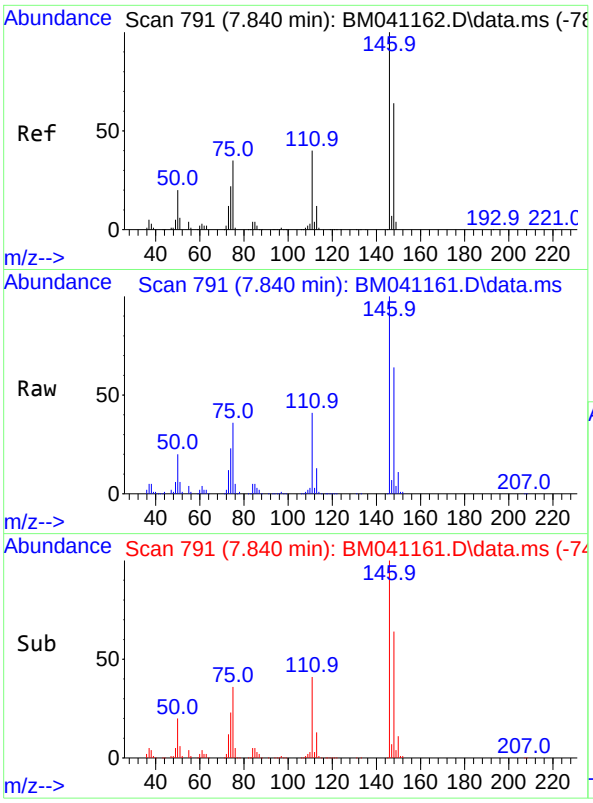


#12
1,3-Dichlorobenzene
Concen: 21.212 ng
RT: 7.692 min Scan# 766
Delta R.T. -0.000 min
Lab File: BM041161.D
Acq: 28 Jul 2023 12:06

Tgt Ion:146 Resp: 266806

Ion	Ratio	Lower	Upper
146	100		
148	63.9	51.9	77.9
75	35.0	28.3	42.5

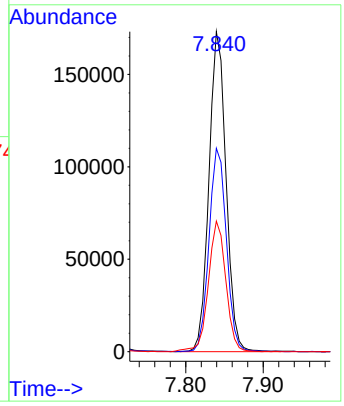




#13
1,4-Dichlorobenzene
Concen: 20.992 ng
RT: 7.840 min Scan# 7
Delta R.T. -0.000 min
Lab File: BM041161.D
Acq: 28 Jul 2023 12:06

Tgt Ion:146 Resp: 26538

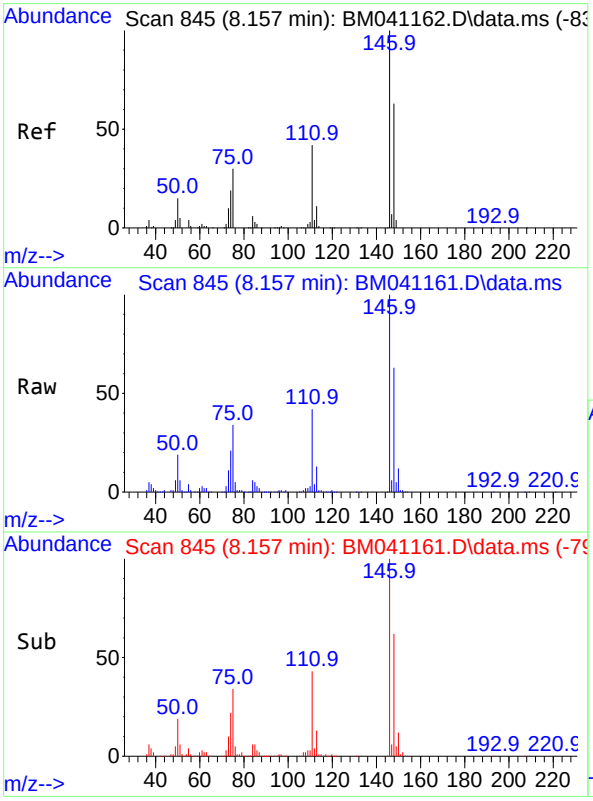
Ion	Ratio	Lower	Upper
146	100		
148	63.6	51.4	77.0
111	40.8	32.4	48.6



Instrument :
BNA_M
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

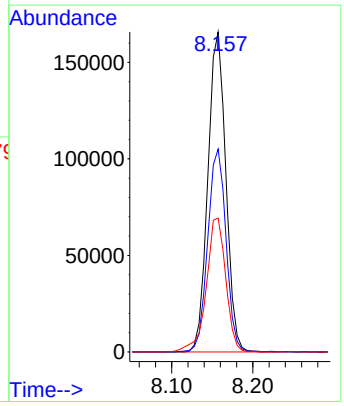
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

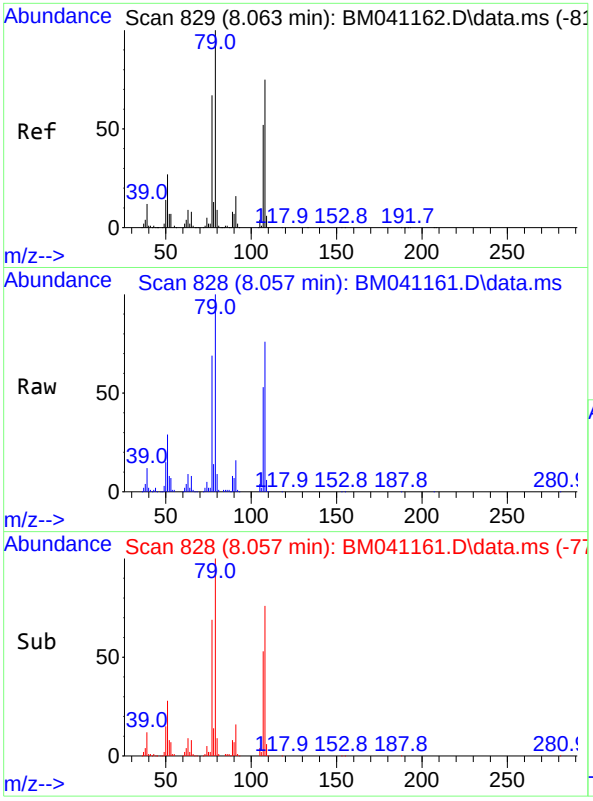


#14
1,2-Dichlorobenzene
Concen: 21.009 ng
RT: 8.157 min Scan# 845
Delta R.T. -0.000 min
Lab File: BM041161.D
Acq: 28 Jul 2023 12:06

Tgt Ion:146 Resp: 254660

Ion	Ratio	Lower	Upper
146	100		
148	63.4	50.9	76.3
111	41.8	33.8	50.6

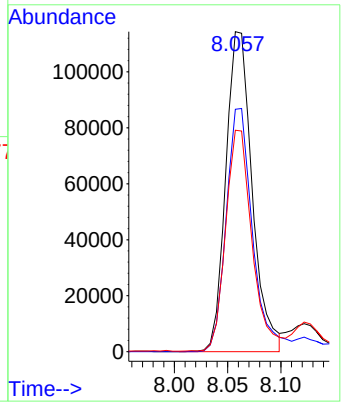




#15
Benzyl Alcohol
Concen: 20.337 ng
RT: 8.057 min Scan# 8
Delta R.T. -0.006 min
Lab File: BM041161.D
Acq: 28 Jul 2023 12:06

Tgt Ion: 79 Resp: 19704

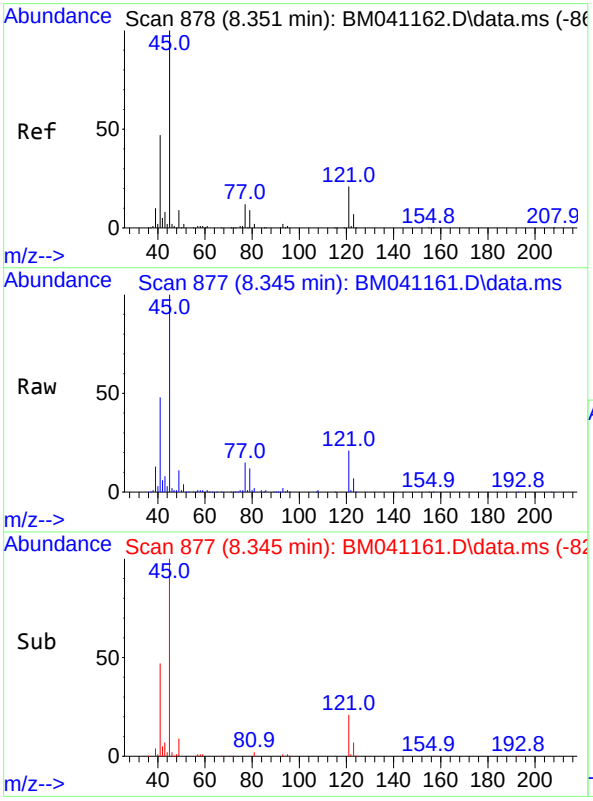
Ion	Ratio	Lower	Upper
79	100		
108	75.8	59.8	89.8
77	69.2	53.8	80.6



Instrument :
BNA_M
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

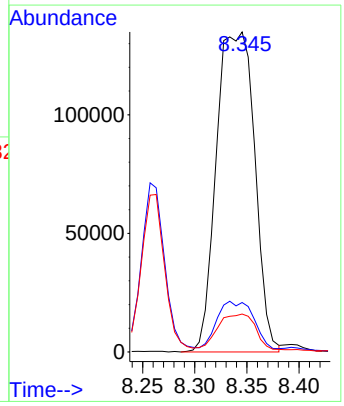
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

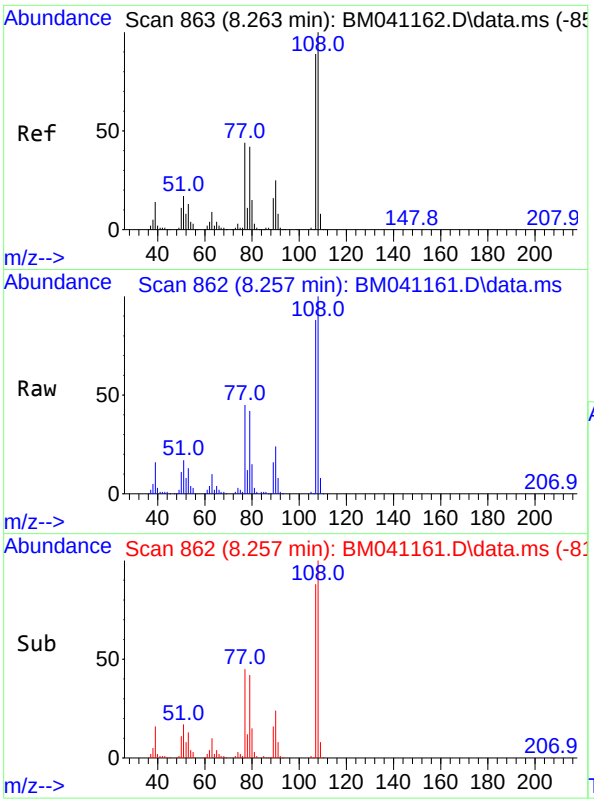


#16
2,2'-oxybis(1-Chloropropane)
Concen: 21.483 ng m
RT: 8.345 min Scan# 877
Delta R.T. -0.006 min
Lab File: BM041161.D
Acq: 28 Jul 2023 12:06

Tgt Ion: 45 Resp: 343339

Ion	Ratio	Lower	Upper
45	100		
77	15.5	0.0	34.5
79	11.9	0.0	32.1

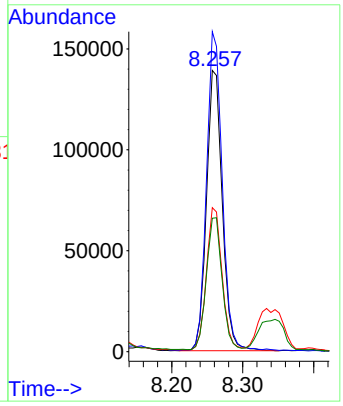




#17
2-Methylphenol
Concen: 21.260 ng
RT: 8.257 min Scan# 8
Delta R.T. -0.006 min
Lab File: BM041161.D
Acq: 28 Jul 2023 12:06

Tgt Ion:107 Resp: 21523

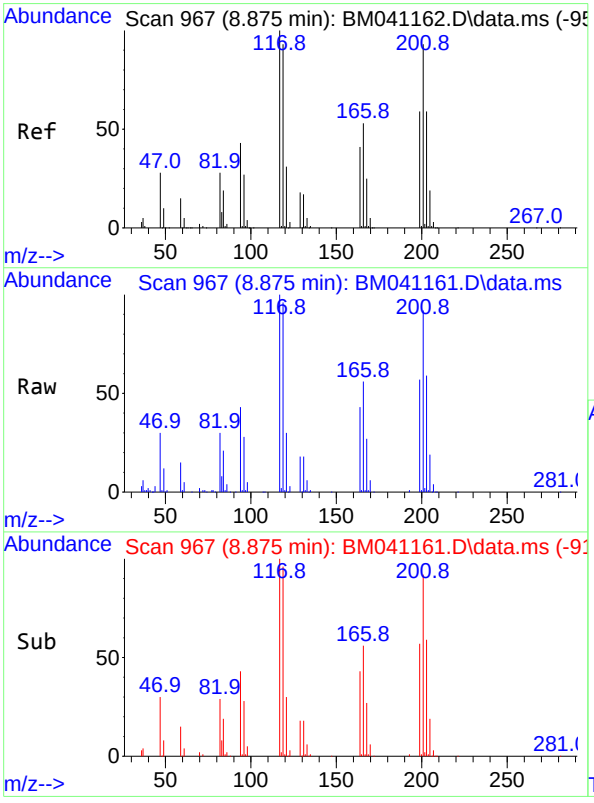
Ion	Ratio	Lower	Upper
107	100		
108	113.8	89.9	134.9
77	51.2	39.8	59.8
79	47.5	37.7	56.5



Instrument :
BNA_M
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

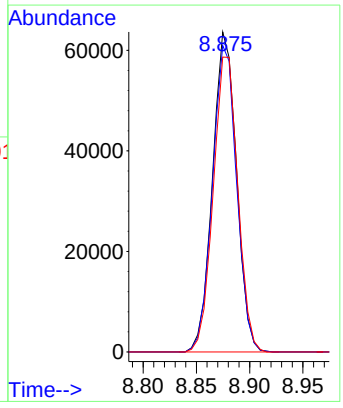
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

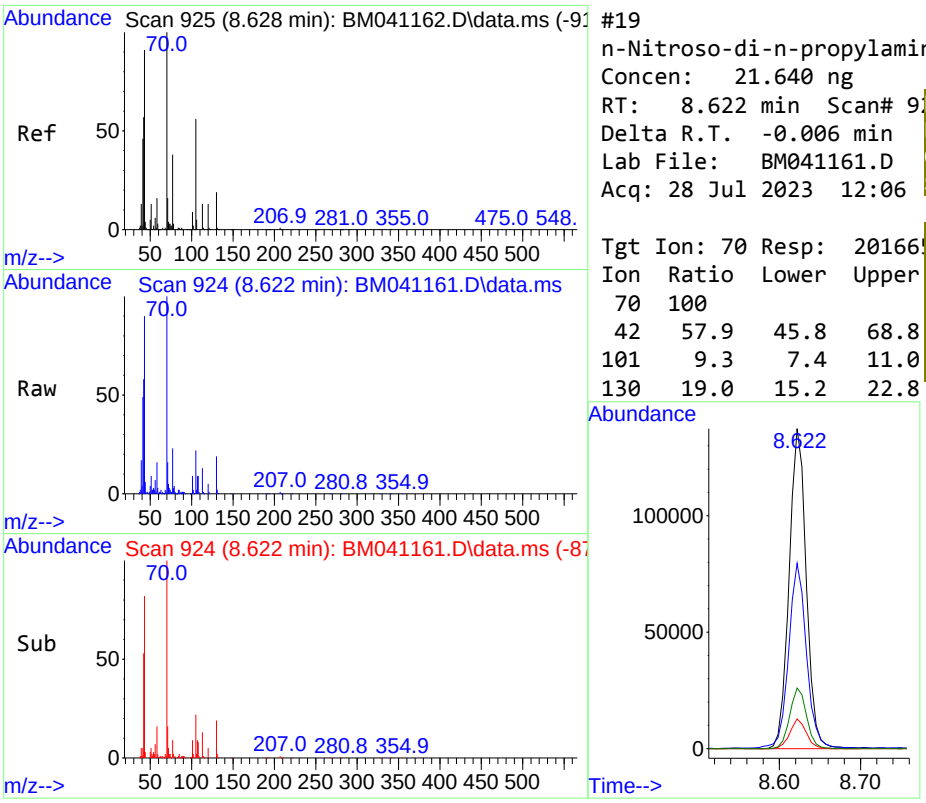


#18
Hexachloroethane
Concen: 21.064 ng
RT: 8.875 min Scan# 967
Delta R.T. -0.000 min
Lab File: BM041161.D
Acq: 28 Jul 2023 12:06

Tgt Ion:117 Resp: 99138

Ion	Ratio	Lower	Upper
117	100		
119	95.8	74.2	111.4
201	92.2	74.5	111.7





#19
n-Nitroso-di-n-propylamine
Concen: 21.640 ng
RT: 8.622 min Scan# 9
Delta R.T. -0.006 min
Lab File: BM041161.D
Acq: 28 Jul 2023 12:06

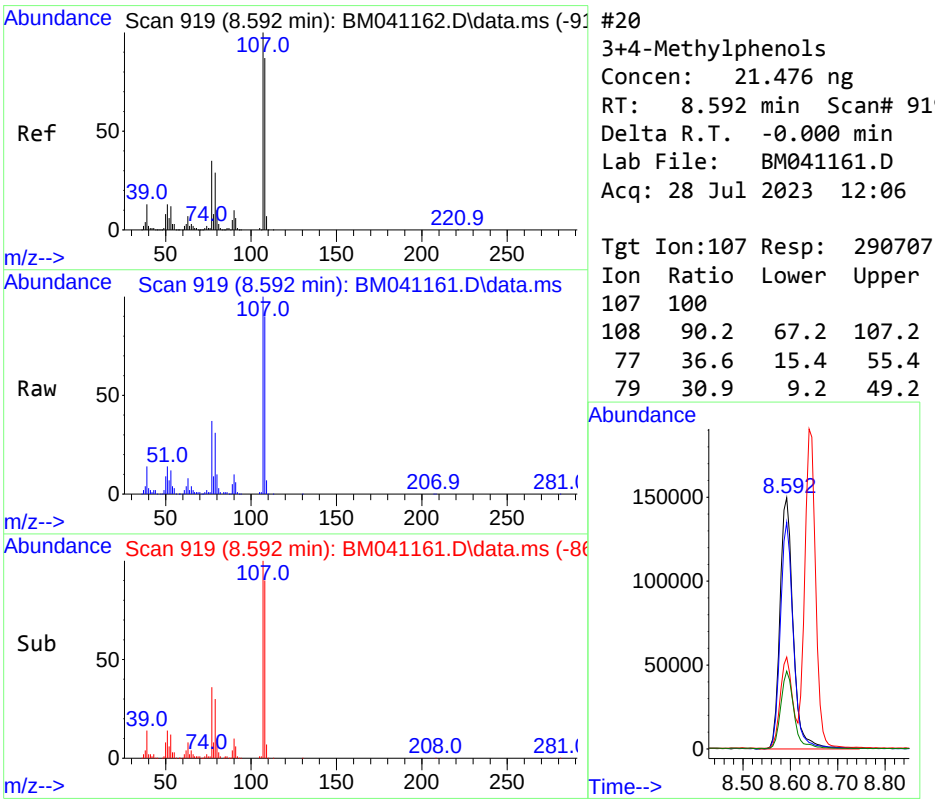
Tgt Ion: 70 Resp: 20166

Ion	Ratio	Lower	Upper
70	100		
42	57.9	45.8	68.8
101	9.3	7.4	11.0
130	19.0	15.2	22.8

Instrument :
BNA_M
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

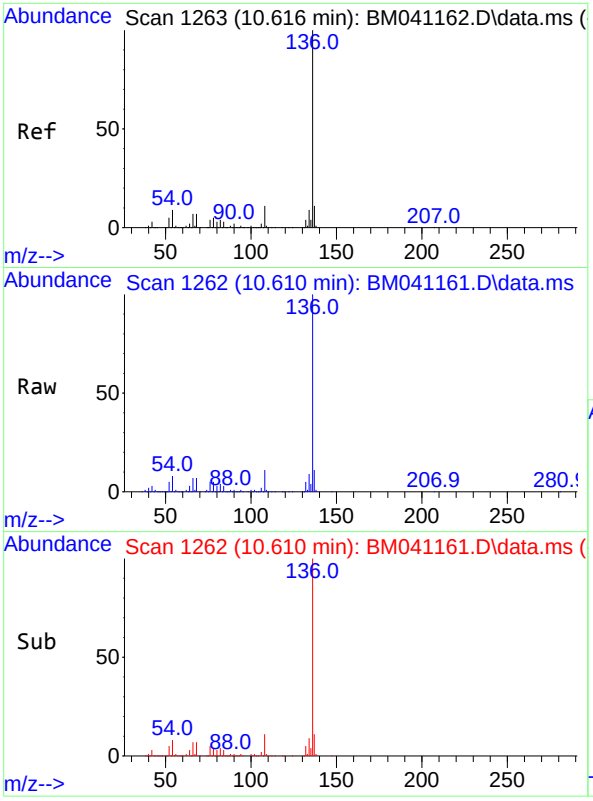
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023



#20
3+4-Methylphenols
Concen: 21.476 ng
RT: 8.592 min Scan# 919
Delta R.T. -0.000 min
Lab File: BM041161.D
Acq: 28 Jul 2023 12:06

Tgt Ion:107 Resp: 290707

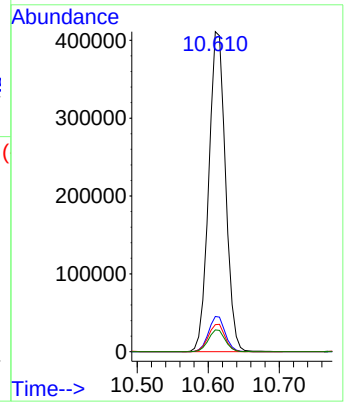
Ion	Ratio	Lower	Upper
107	100		
108	90.2	67.2	107.2
77	36.6	15.4	55.4
79	30.9	9.2	49.2



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.610 min Scan# 1
Delta R.T. -0.006 min
Lab File: BM041161.D
Acq: 28 Jul 2023 12:06

Tgt Ion:136 Resp: 67376

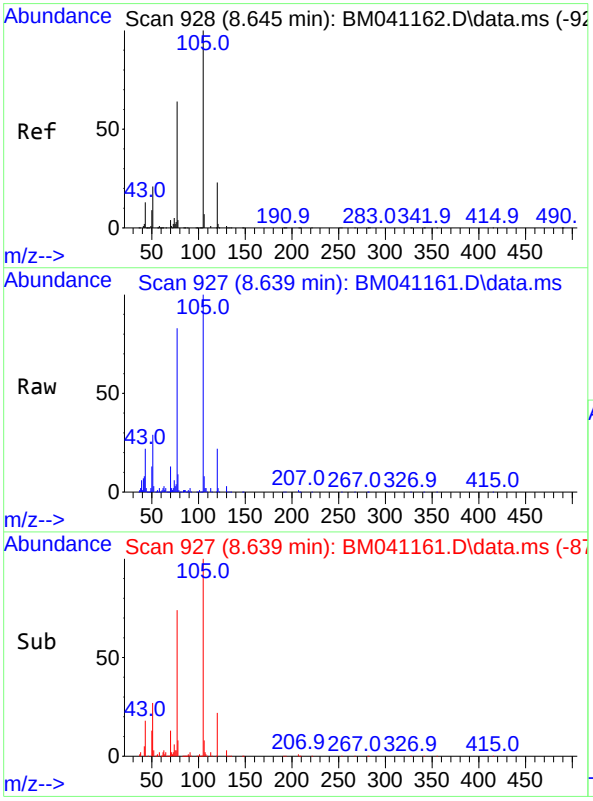
Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.8	13.2
54	8.5	6.9	10.3
68	6.8	5.4	8.2



Instrument :
BNA_M
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

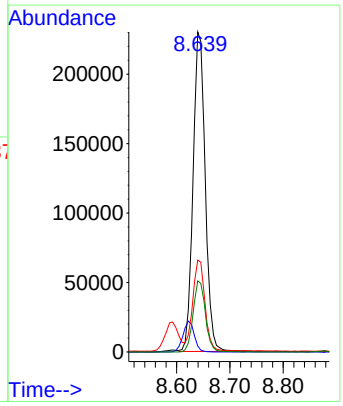
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

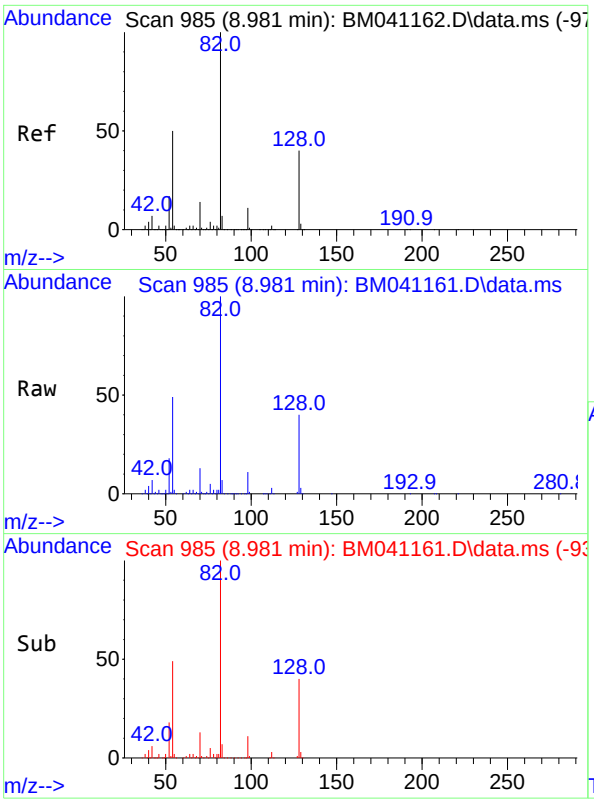


#22
Acetophenone
Concen: 20.575 ng
RT: 8.639 min Scan# 927
Delta R.T. -0.006 min
Lab File: BM041161.D
Acq: 28 Jul 2023 12:06

Tgt Ion:105 Resp: 367142

Ion	Ratio	Lower	Upper
105	100		
71	1.9	1.2	1.8#
51	28.7	22.0	33.0
120	22.2	18.0	27.0

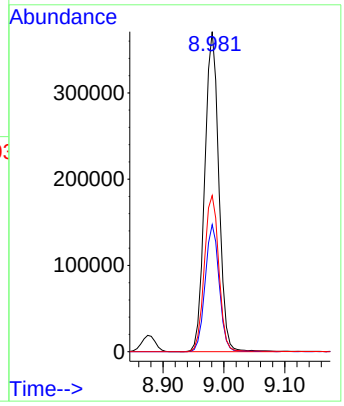




#23
Nitrobenzene-d5
Concen: 41.154 ng
RT: 8.981 min Scan# 9
Delta R.T. -0.000 min
Lab File: BM041161.D
Acq: 28 Jul 2023 12:06

Tgt Ion: 82 Resp: 59624

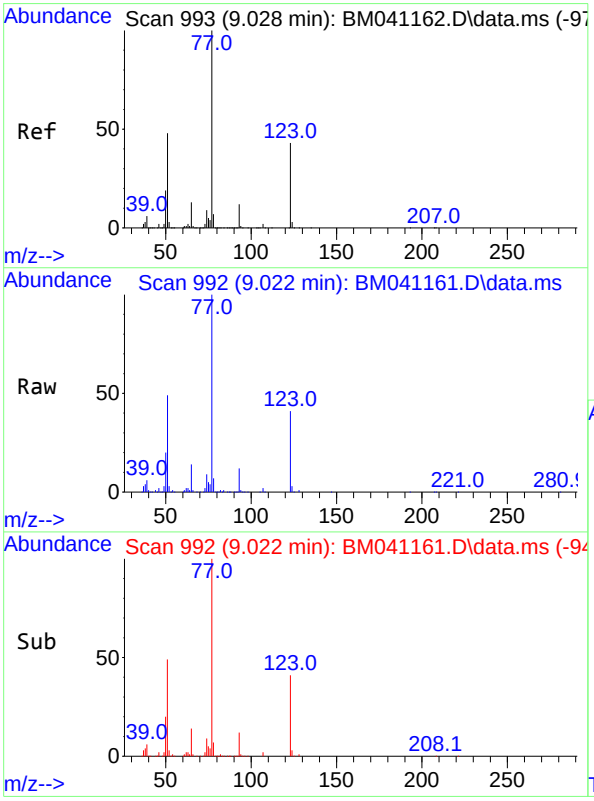
Ion	Ratio	Lower	Upper
82	100		
128	39.7	31.8	47.6
54	48.8	40.1	60.1



Instrument :
BNA_M
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

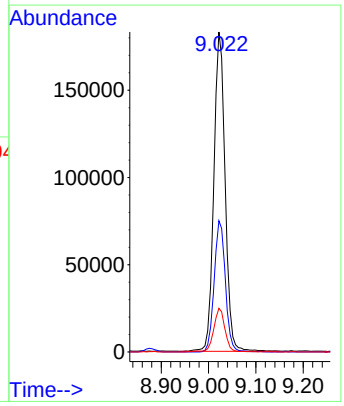
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

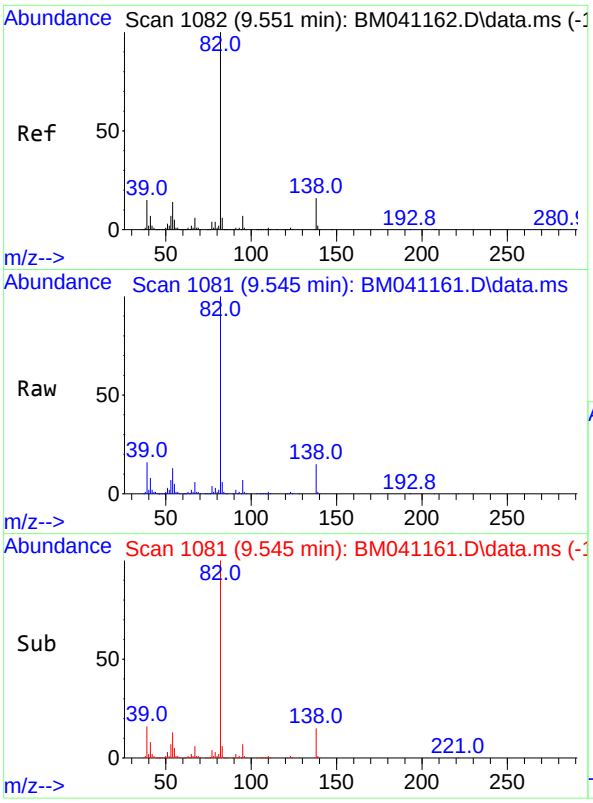


#24
Nitrobenzene
Concen: 20.629 ng
RT: 9.022 min Scan# 992
Delta R.T. -0.006 min
Lab File: BM041161.D
Acq: 28 Jul 2023 12:06

Tgt Ion: 77 Resp: 302245

Ion	Ratio	Lower	Upper
77	100		
123	41.0	34.2	51.2
65	13.6	10.7	16.1





#25
Isophorone
Concen: 20.611 ng
RT: 9.545 min Scan# 1
Delta R.T. -0.006 min
Lab File: BM041161.D
Acq: 28 Jul 2023 12:06

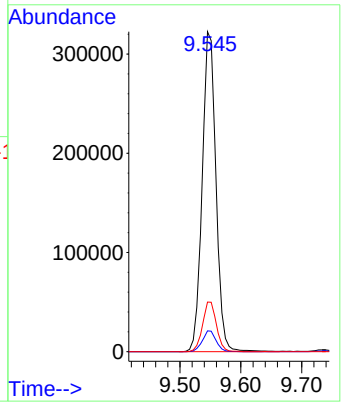
Tgt Ion: 82 Resp: 50689

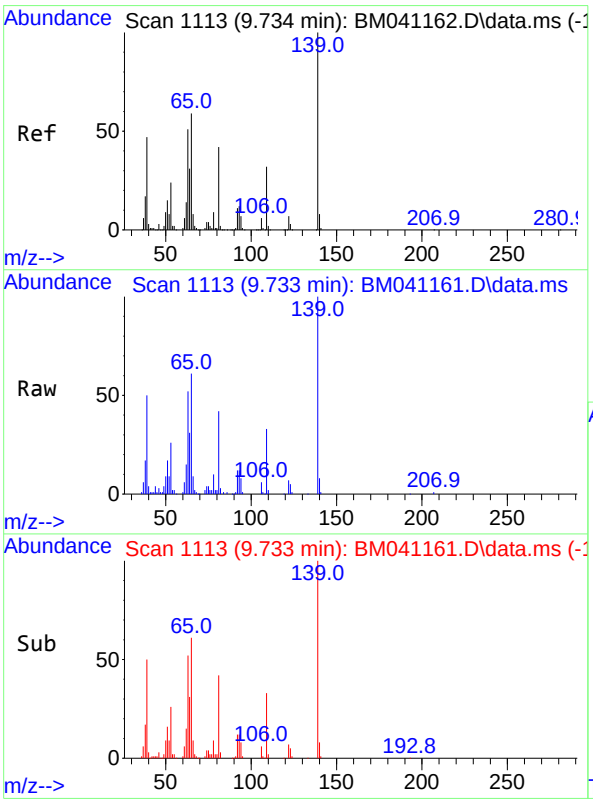
Ion	Ratio	Lower	Upper
82	100		
95	6.5	5.3	7.9
138	15.5	12.8	19.2

Instrument :
BNA_M
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

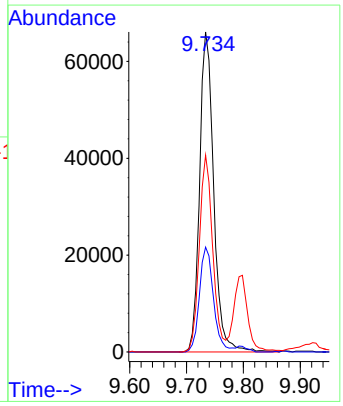


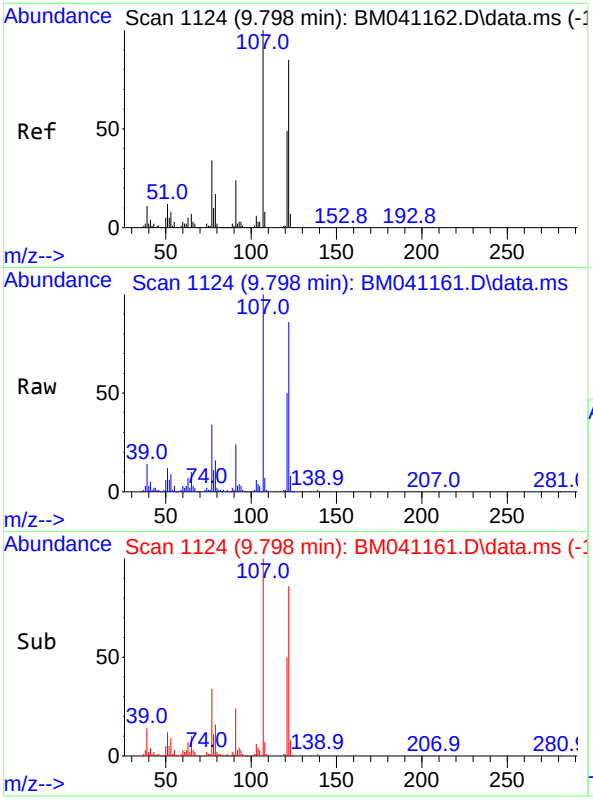


#26
2-Nitrophenol
Concen: 19.931 ng
RT: 9.733 min Scan# 1113
Delta R.T. -0.000 min
Lab File: BM041161.D
Acq: 28 Jul 2023 12:06

Tgt Ion:139 Resp: 114156

Ion	Ratio	Lower	Upper
139	100		
109	32.8	25.4	38.2
65	61.5	47.2	70.8

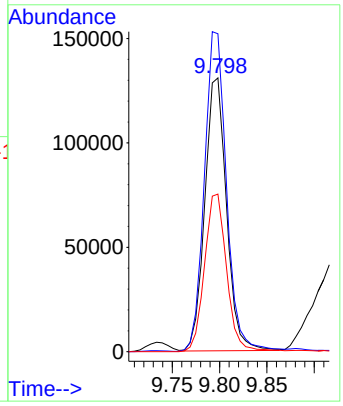




#27
2,4-Dimethylphenol
Concen: 20.680 ng
RT: 9.798 min Scan# 11
Delta R.T. -0.000 min
Lab File: BM041161.D
Acq: 28 Jul 2023 12:06

Tgt Ion:122 Resp: 20842

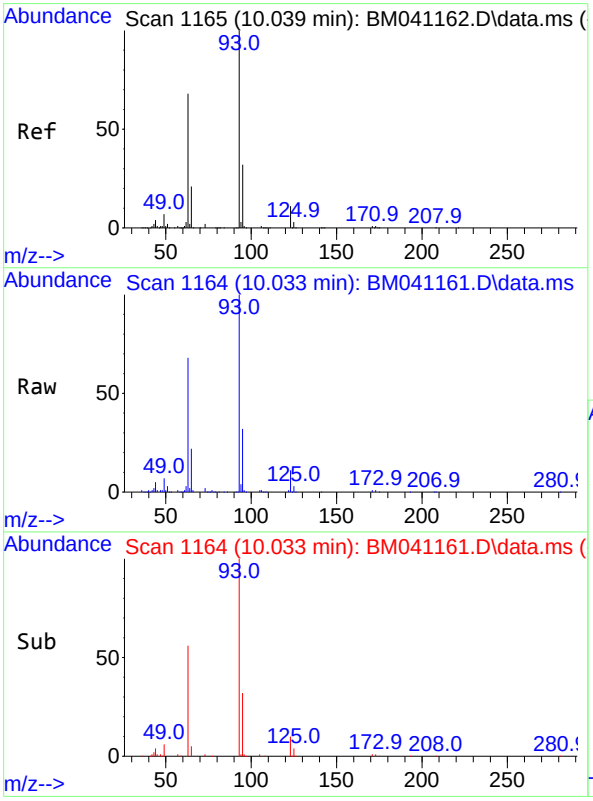
Ion	Ratio	Lower	Upper
122	100		
107	116.1	94.3	141.5
121	57.6	45.8	68.8



Instrument :
BNA_M
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

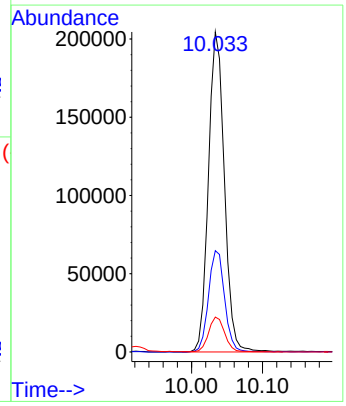
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

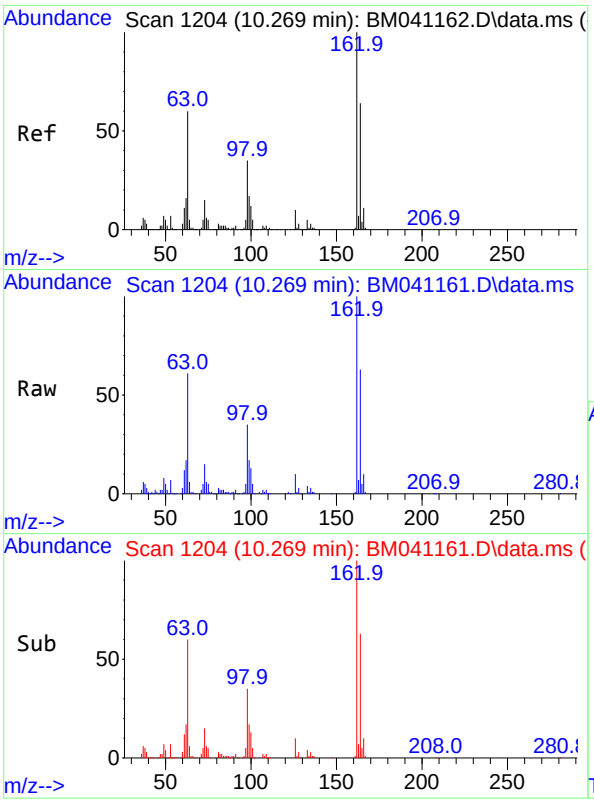


#28
bis(2-Chloroethoxy)methane
Concen: 20.748 ng
RT: 10.033 min Scan# 1164
Delta R.T. -0.006 min
Lab File: BM041161.D
Acq: 28 Jul 2023 12:06

Tgt Ion: 93 Resp: 319631

Ion	Ratio	Lower	Upper
93	100		
95	31.7	25.9	38.9
123	10.9	9.1	13.7

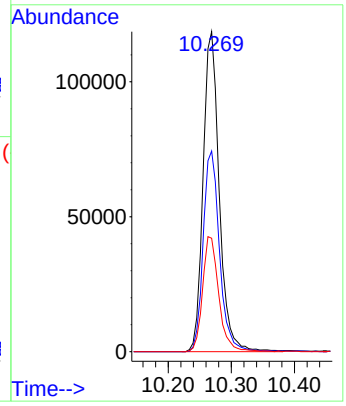




#29
2,4-Dichlorophenol
Concen: 20.699 ng
RT: 10.269 min Scan# 1
Delta R.T. -0.000 min
Lab File: BM041161.D
Acq: 28 Jul 2023 12:06

Tgt Ion:162 Resp: 21038

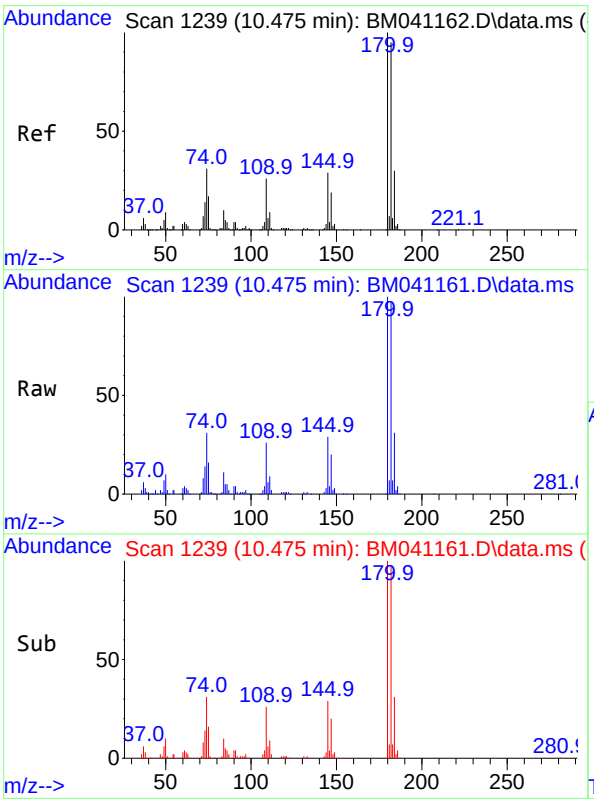
Ion	Ratio	Lower	Upper
162	100		
164	62.7	44.3	84.3
98	35.5	15.1	55.1



Instrument :
BNA_M
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

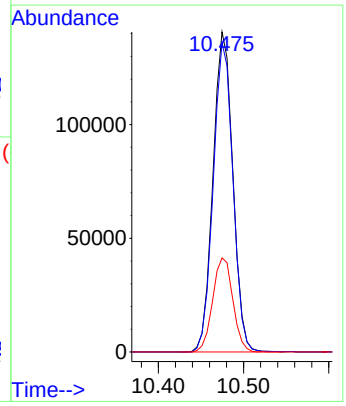
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

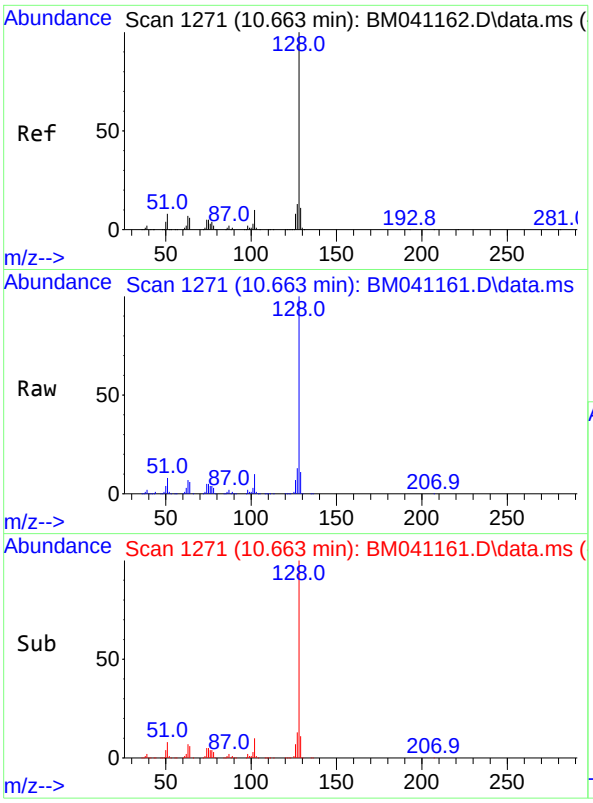


#30
1,2,4-Trichlorobenzene
Concen: 20.269 ng
RT: 10.475 min Scan# 1239
Delta R.T. -0.000 min
Lab File: BM041161.D
Acq: 28 Jul 2023 12:06

Tgt Ion:180 Resp: 227605

Ion	Ratio	Lower	Upper
180	100		
182	96.7	75.9	113.9
145	29.4	23.6	35.4

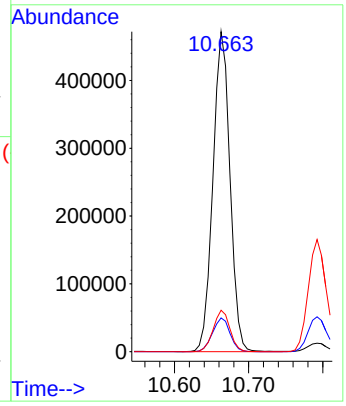




#31
Naphthalene
Concen: 20.604 ng
RT: 10.663 min Scan# 1
Delta R.T. -0.000 min
Lab File: BM041161.D
Acq: 28 Jul 2023 12:06

Tgt Ion:128 Resp: 75332

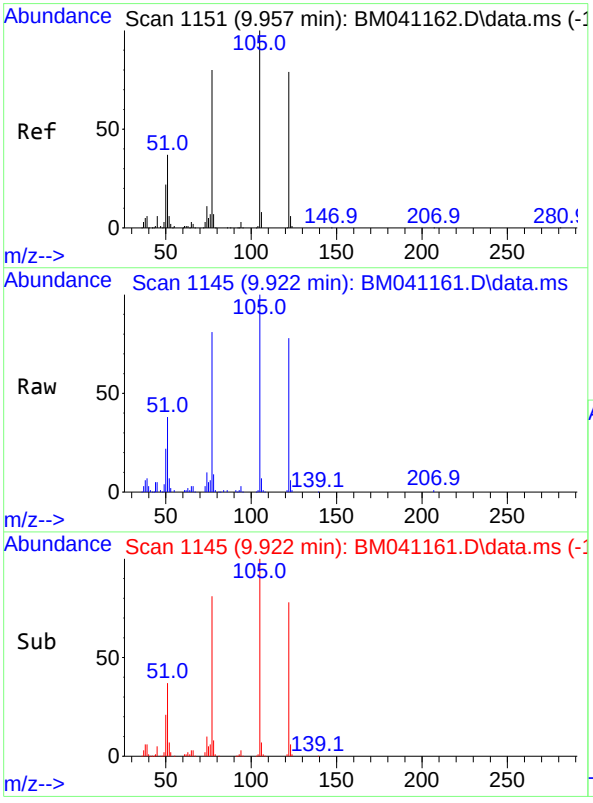
Ion	Ratio	Lower	Upper
128	100		
129	10.6	9.0	13.4
127	12.9	10.5	15.7



Instrument :
BNA_M
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

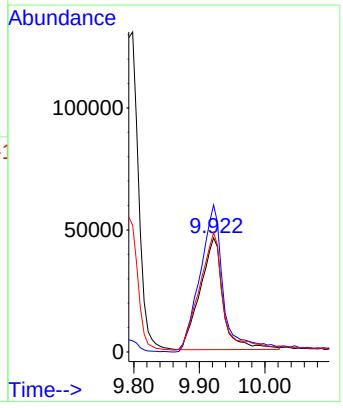
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

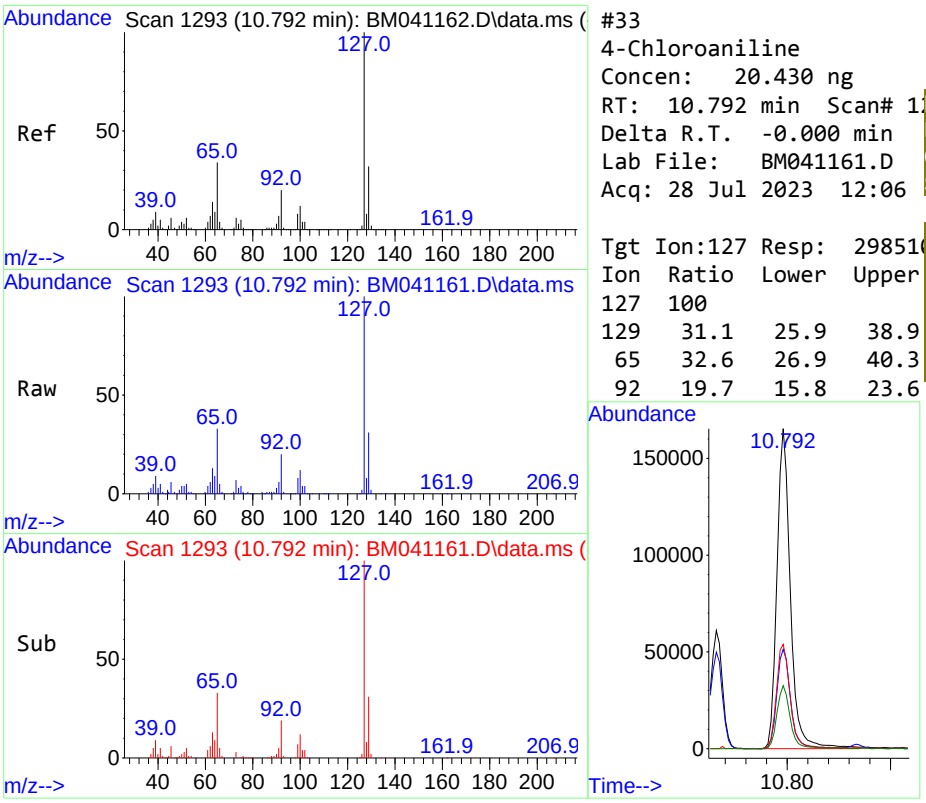


#32
Benzoic acid
Concen: 19.769 ng
RT: 9.922 min Scan# 1145
Delta R.T. -0.035 min
Lab File: BM041161.D
Acq: 28 Jul 2023 12:06

Tgt Ion:122 Resp: 112208

Ion	Ratio	Lower	Upper
122	100		
105	128.9	104.0	144.0
77	104.6	79.9	119.9





#33
4-Chloroaniline
Concen: 20.430 ng
RT: 10.792 min Scan# 1
Delta R.T. -0.000 min
Lab File: BM041161.D
Acq: 28 Jul 2023 12:06

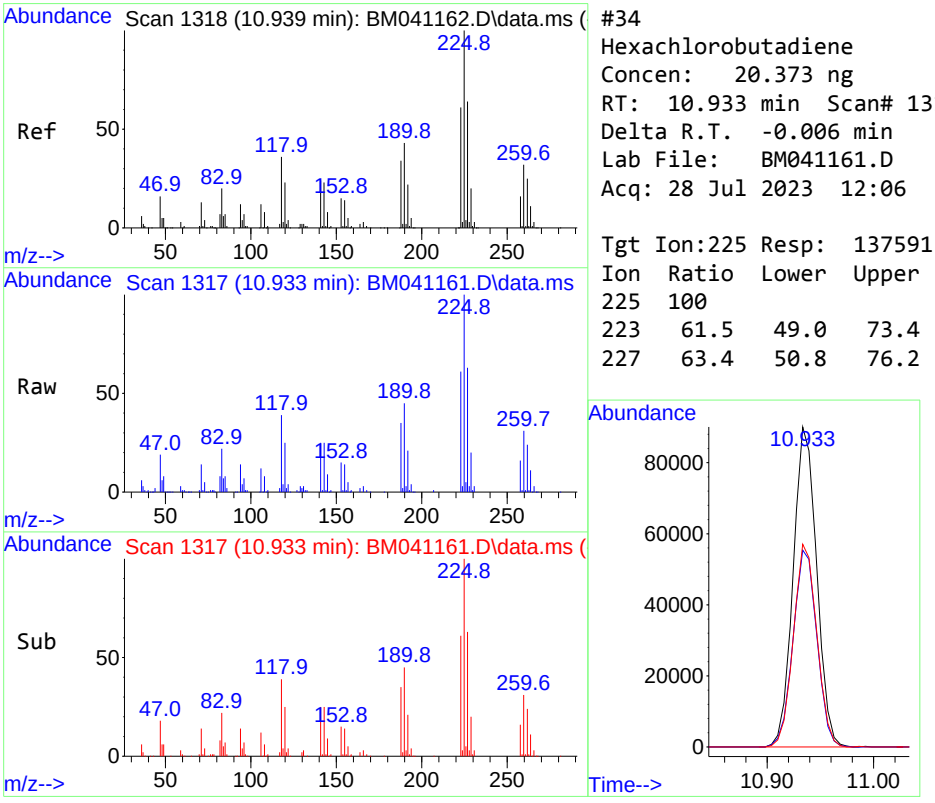
Tgt Ion:127 Resp: 29851

Ion	Ratio	Lower	Upper
127	100		
129	31.1	25.9	38.9
65	32.6	26.9	40.3
92	19.7	15.8	23.6

Instrument :
BNA_M
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

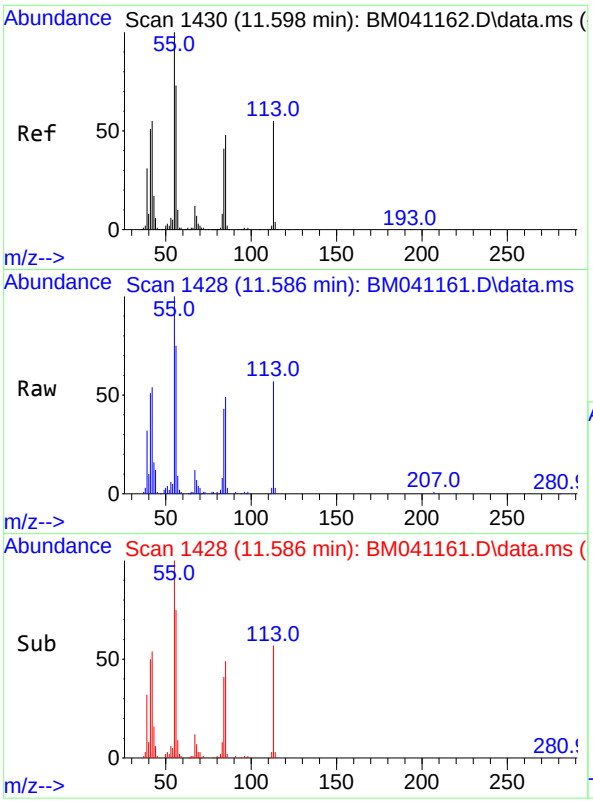
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023



#34
Hexachlorobutadiene
Concen: 20.373 ng
RT: 10.933 min Scan# 1317
Delta R.T. -0.006 min
Lab File: BM041161.D
Acq: 28 Jul 2023 12:06

Tgt Ion:225 Resp: 137591

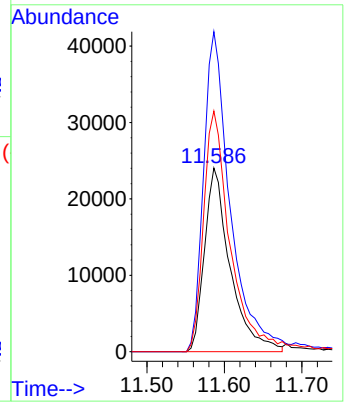
Ion	Ratio	Lower	Upper
225	100		
223	61.5	49.0	73.4
227	63.4	50.8	76.2



#35
Caprolactam
Concen: 18.867 ng
RT: 11.586 min Scan# 14
Delta R.T. -0.012 min
Lab File: BM041161.D
Acq: 28 Jul 2023 12:06

Tgt Ion:113 Resp: 5547

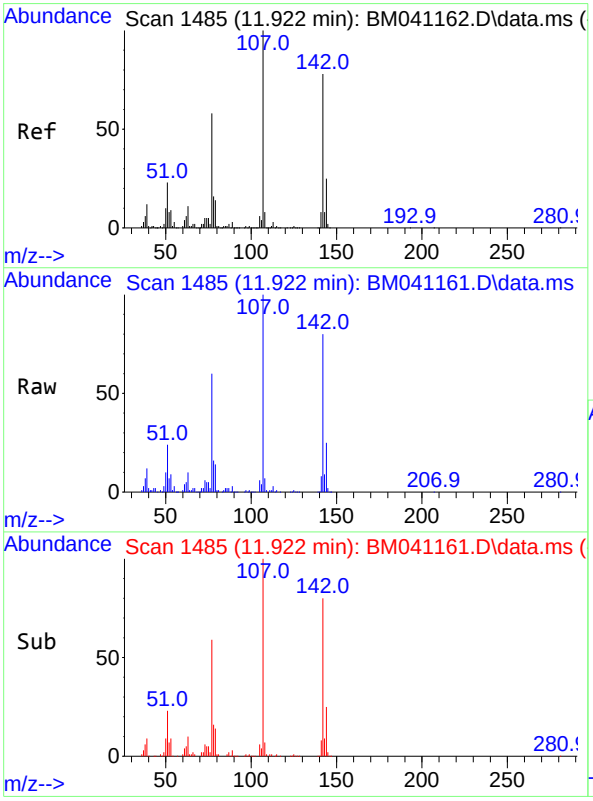
Ion	Ratio	Lower	Upper
113	100		
55	174.2	162.5	202.5
56	131.0	114.1	154.1



Instrument :
BNA_M
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

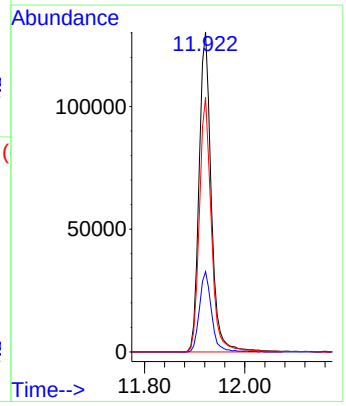
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

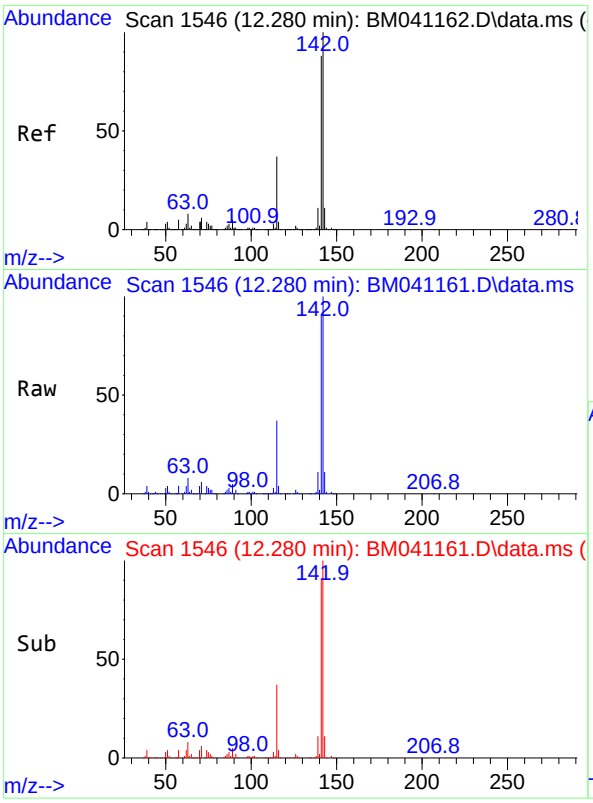


#36
4-Chloro-3-methylphenol
Concen: 20.468 ng
RT: 11.922 min Scan# 1485
Delta R.T. -0.000 min
Lab File: BM041161.D
Acq: 28 Jul 2023 12:06

Tgt Ion:107 Resp: 218964

Ion	Ratio	Lower	Upper
107	100		
144	25.1	20.1	30.1
142	79.6	62.2	93.4

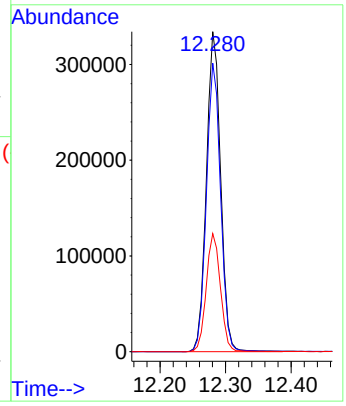




#37
2-Methylnaphthalene
Concen: 20.521 ng
RT: 12.280 min Scan# 1
Delta R.T. -0.000 min
Lab File: BM041161.D
Acq: 28 Jul 2023 12:06

Tgt Ion:142 Resp: 50582

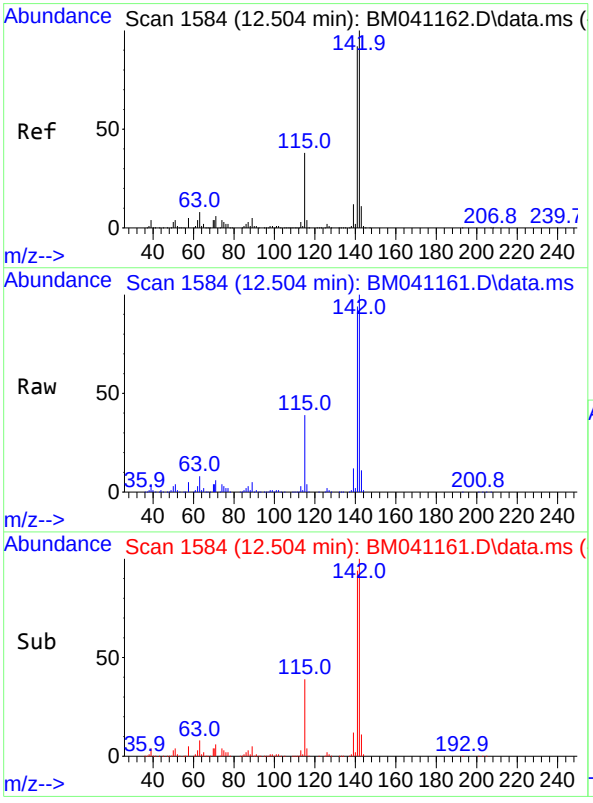
Ion	Ratio	Lower	Upper
142	100		
141	90.2	70.7	106.1
115	36.9	29.3	43.9



Instrument :
BNA_M
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

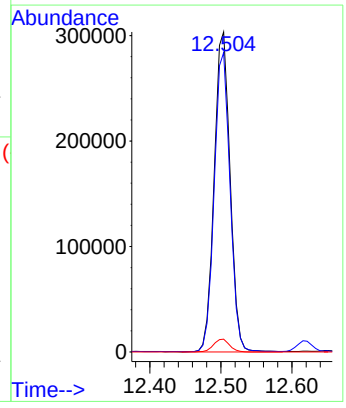
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

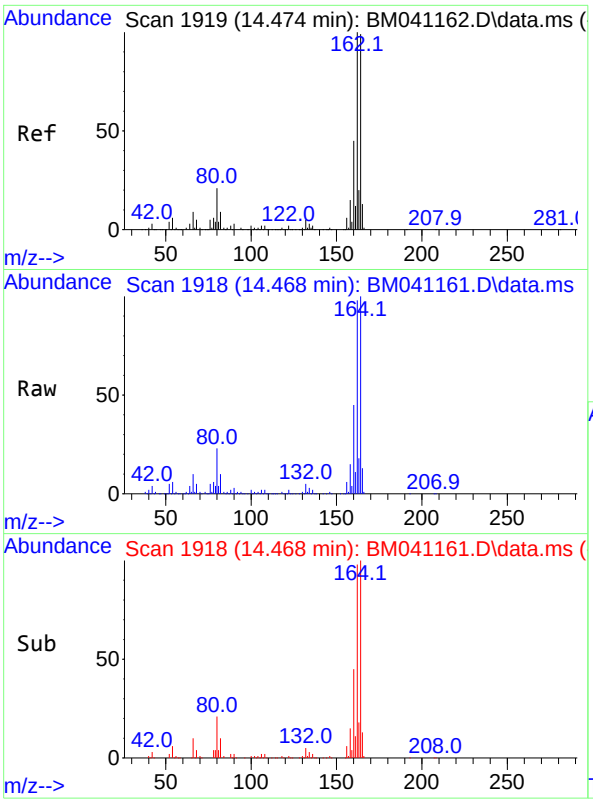


#38
1-Methylnaphthalene
Concen: 20.465 ng
RT: 12.504 min Scan# 1584
Delta R.T. -0.000 min
Lab File: BM041161.D
Acq: 28 Jul 2023 12:06

Tgt Ion:142 Resp: 472143

Ion	Ratio	Lower	Upper
142	100		
141	93.6	73.4	110.2
116	4.0	3.2	4.8

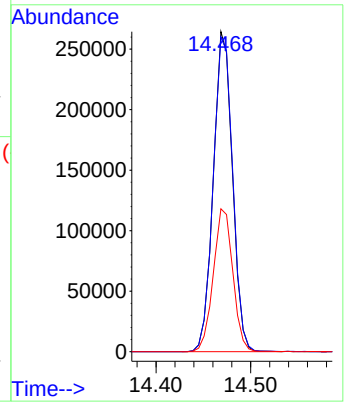




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.468 min Scan# 1
Delta R.T. -0.006 min
Lab File: BM041161.D
Acq: 28 Jul 2023 12:06

Tgt Ion:164 Resp: 36895

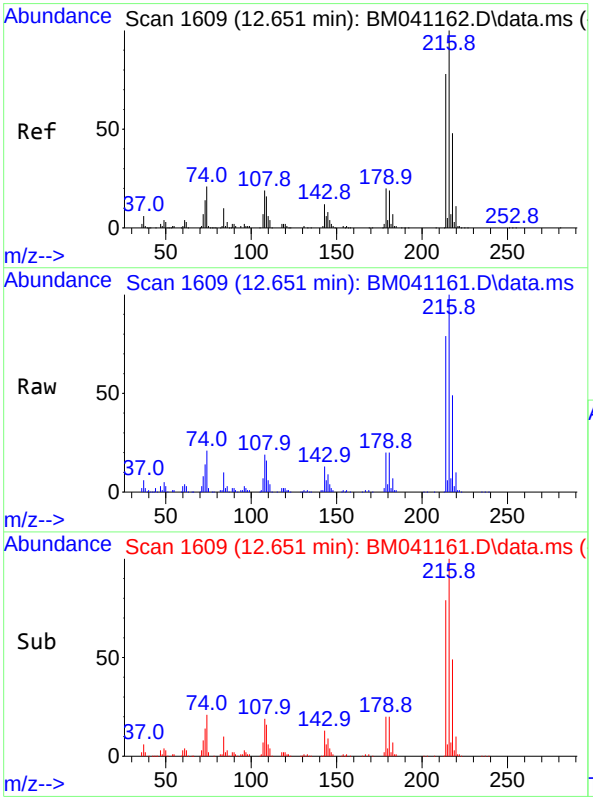
Ion	Ratio	Lower	Upper
164	100		
162	98.4	80.4	120.6
160	44.7	36.2	54.2



Instrument :
BNA_M
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

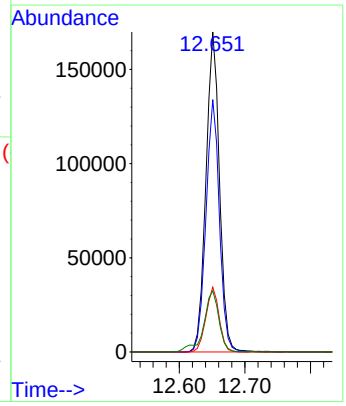
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

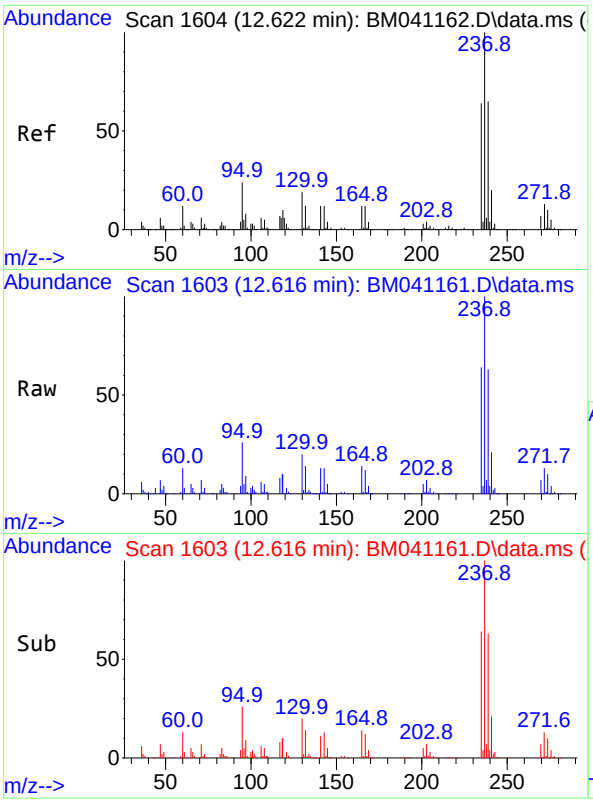


#40
1,2,4,5-Tetrachlorobenzene
Concen: 20.416 ng
RT: 12.651 min Scan# 1609
Delta R.T. -0.000 min
Lab File: BM041161.D
Acq: 28 Jul 2023 12:06

Tgt Ion:216 Resp: 244591

Ion	Ratio	Lower	Upper
216	100		
214	78.5	63.2	94.8
179	19.8	16.2	24.2
108	21.4	17.0	25.4

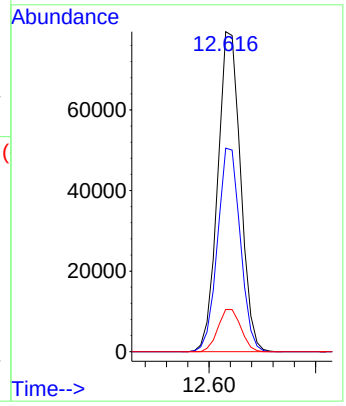




#41
Hexachlorocyclopentadiene
Concen: 18.602 ng
RT: 12.616 min Scan# 1
Delta R.T. -0.006 min
Lab File: BM041161.D
Acq: 28 Jul 2023 12:06

Tgt Ion:237 Resp: 11790

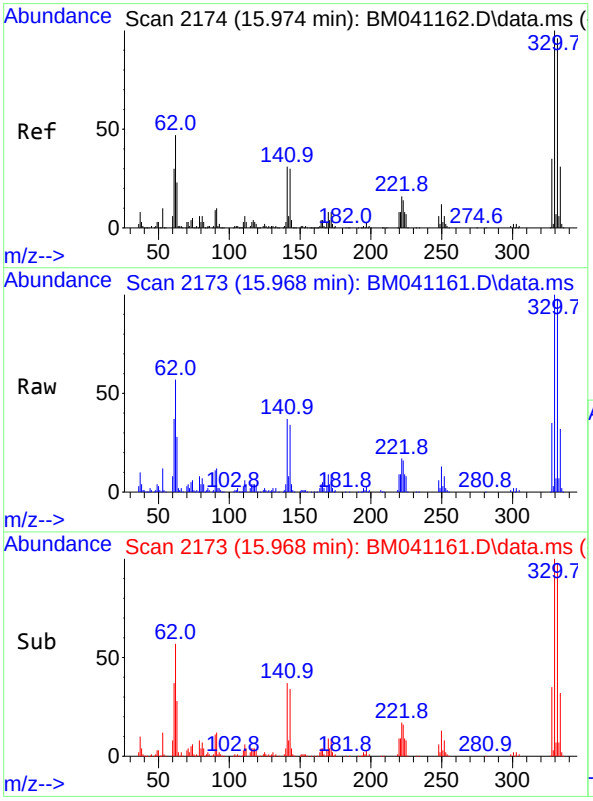
Ion	Ratio	Lower	Upper
237	100		
235	63.6	43.6	83.6
272	13.2	0.0	33.3



Instrument :
BNA_M
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

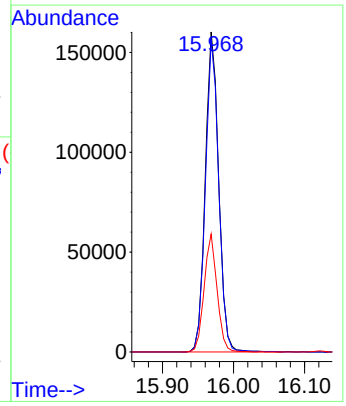
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

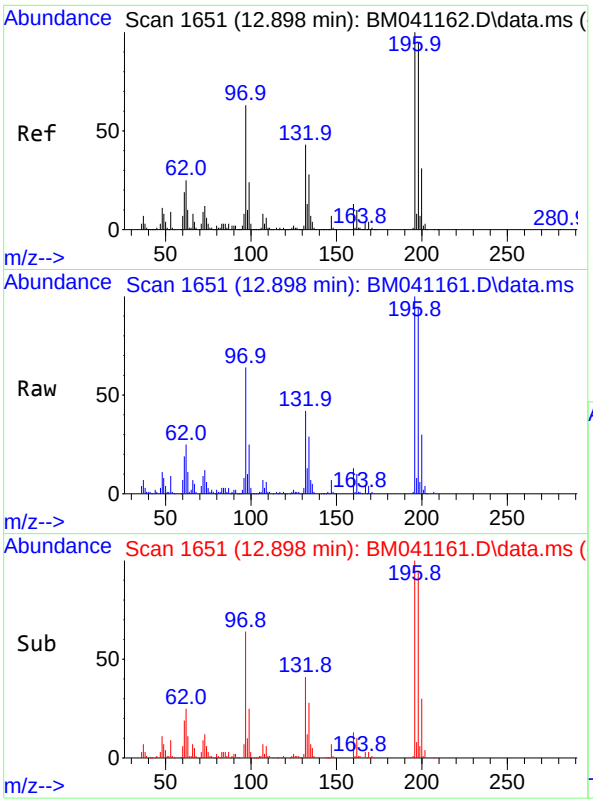


#42
2,4,6-Tribromophenol
Concen: 40.318 ng
RT: 15.968 min Scan# 2173
Delta R.T. -0.006 min
Lab File: BM041161.D
Acq: 28 Jul 2023 12:06

Tgt Ion:330 Resp: 210403

Ion	Ratio	Lower	Upper
330	100		
332	96.6	77.7	116.5
141	35.6	28.3	42.5

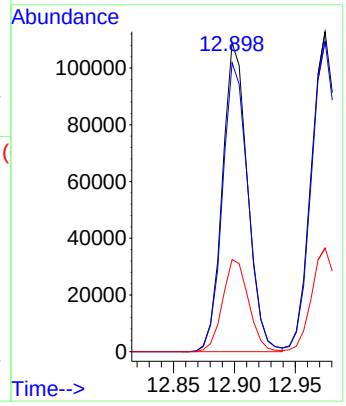




#43
2,4,6-Trichlorophenol
Concen: 20.401 ng
RT: 12.898 min Scan# 1
Delta R.T. -0.000 min
Lab File: BM041161.D
Acq: 28 Jul 2023 12:06

Tgt Ion:196 Resp: 15664

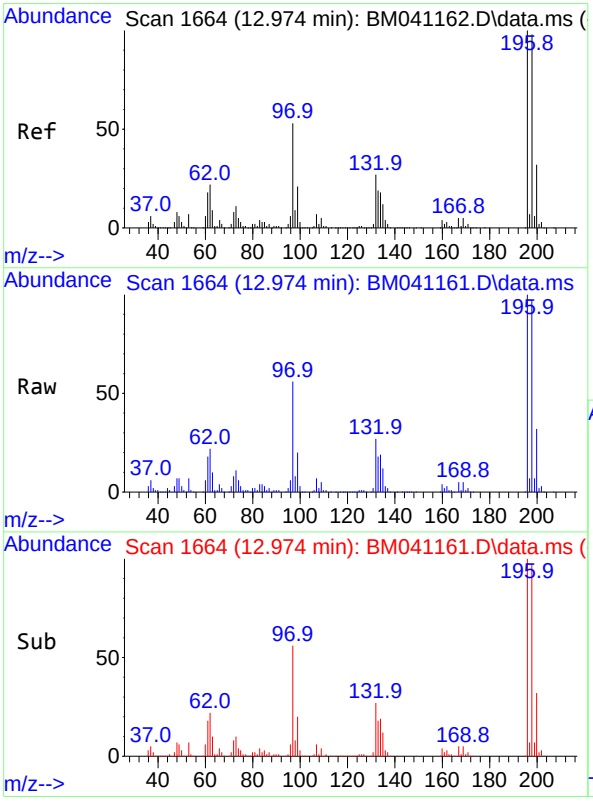
Ion	Ratio	Lower	Upper
196	100		
198	93.5	76.2	114.4
200	29.8	24.6	36.8



Instrument :
BNA_M
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

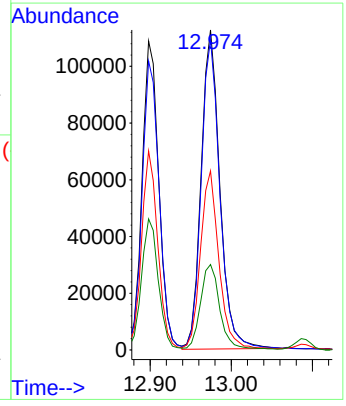
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

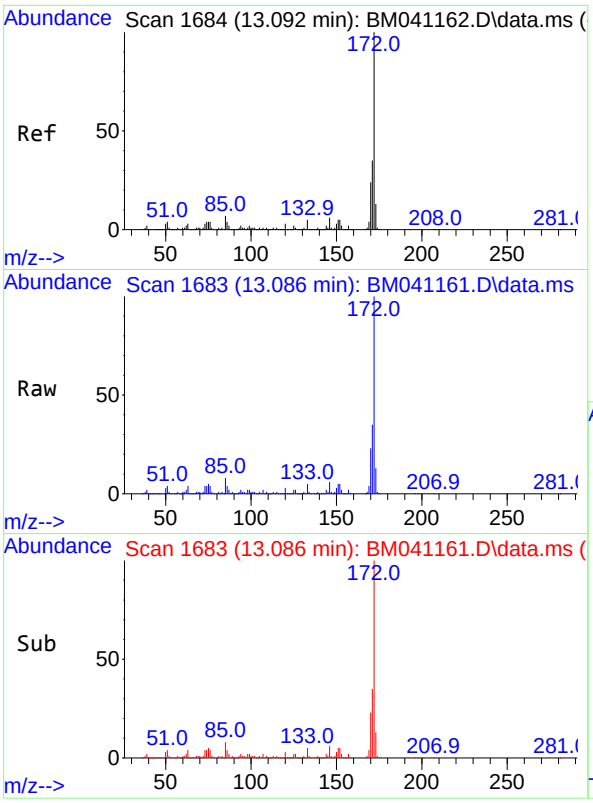


#44
2,4,5-Trichlorophenol
Concen: 20.334 ng
RT: 12.974 min Scan# 1664
Delta R.T. 0.000 min
Lab File: BM041161.D
Acq: 28 Jul 2023 12:06

Tgt Ion:196 Resp: 180722

Ion	Ratio	Lower	Upper
196	100		
198	97.1	78.2	117.4
97	56.0	42.7	64.1
132	26.7	21.6	32.4

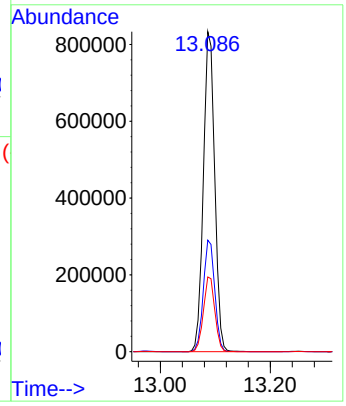




#45
2-Fluorobiphenyl
Concen: 40.885 ng
RT: 13.086 min Scan# 1
Delta R.T. -0.006 min
Lab File: BM041161.D
Acq: 28 Jul 2023 12:06

Tgt Ion:172 Resp: 119410

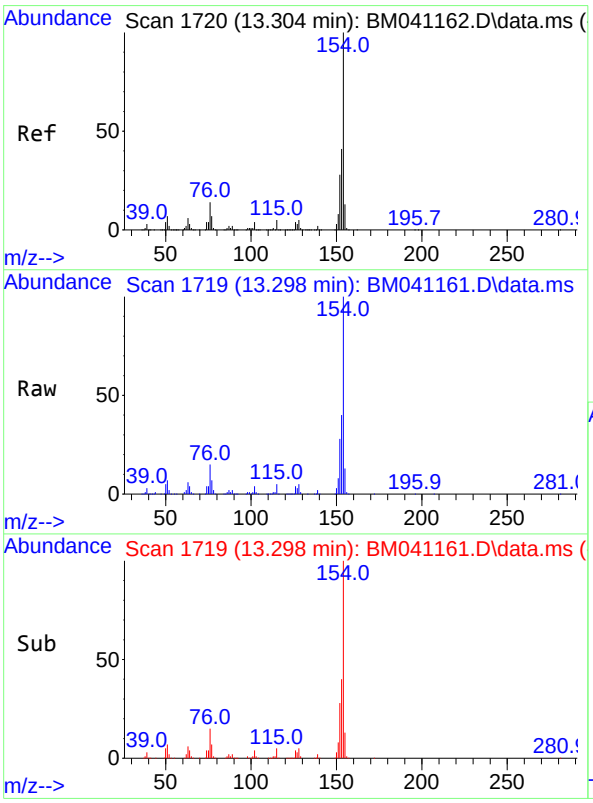
Ion	Ratio	Lower	Upper
172	100		
171	34.8	28.1	42.1
170	23.3	18.9	28.3



Instrument :
BNA_M
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

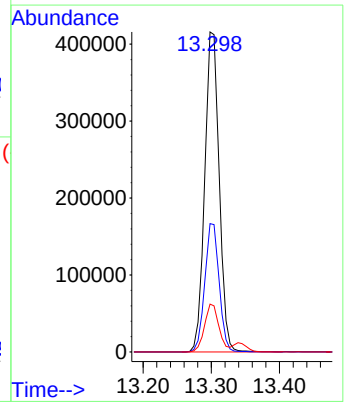
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

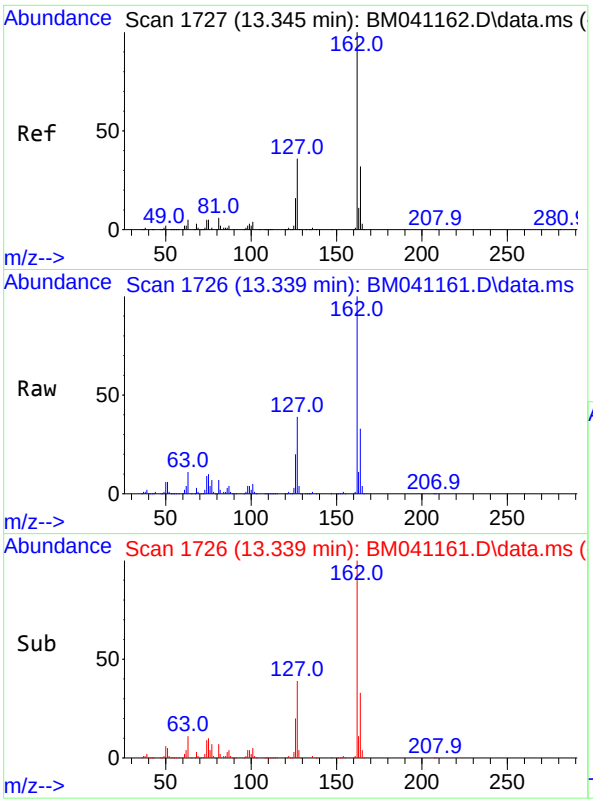


#46
1,1'-Biphenyl
Concen: 20.560 ng
RT: 13.298 min Scan# 1719
Delta R.T. -0.006 min
Lab File: BM041161.D
Acq: 28 Jul 2023 12:06

Tgt Ion:154 Resp: 614968

Ion	Ratio	Lower	Upper
154	100		
153	40.1	20.5	60.5
76	14.9	0.0	34.1

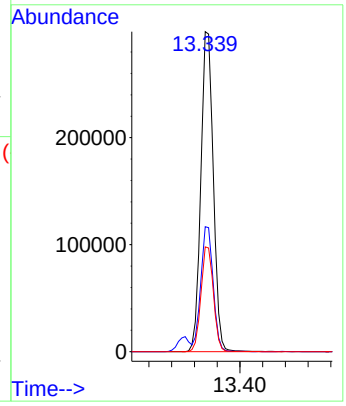




#47
2-Chloronaphthalene
Concen: 20.484 ng
RT: 13.339 min Scan# 1
Delta R.T. -0.006 min
Lab File: BM041161.D
Acq: 28 Jul 2023 12:06

Tgt Ion:162 Resp: 45748

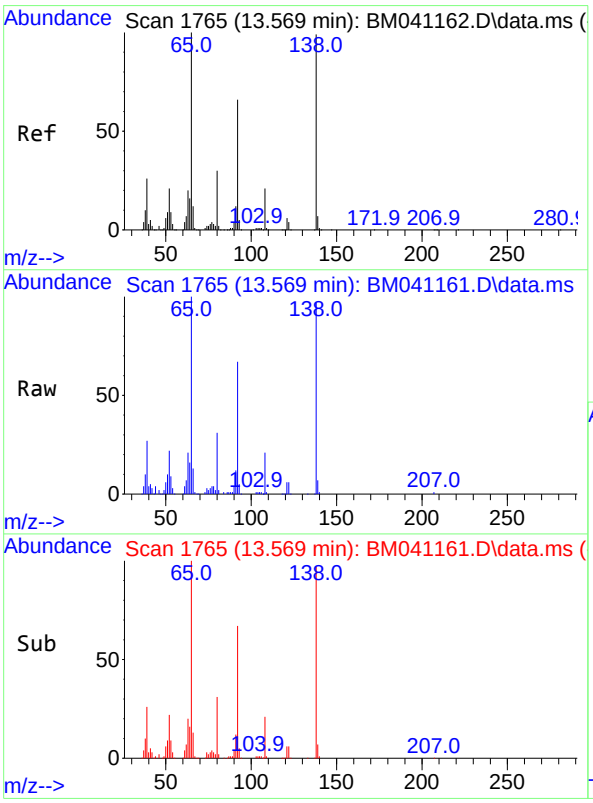
Ion	Ratio	Lower	Upper
162	100		
127	39.0	30.6	45.8
164	32.7	25.6	38.4



Instrument :
BNA_M
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

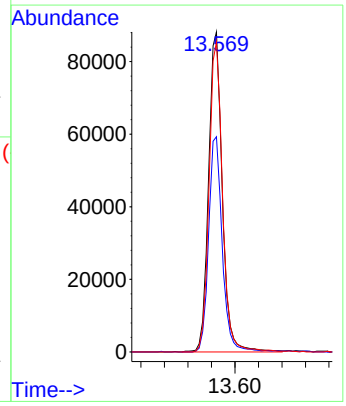
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

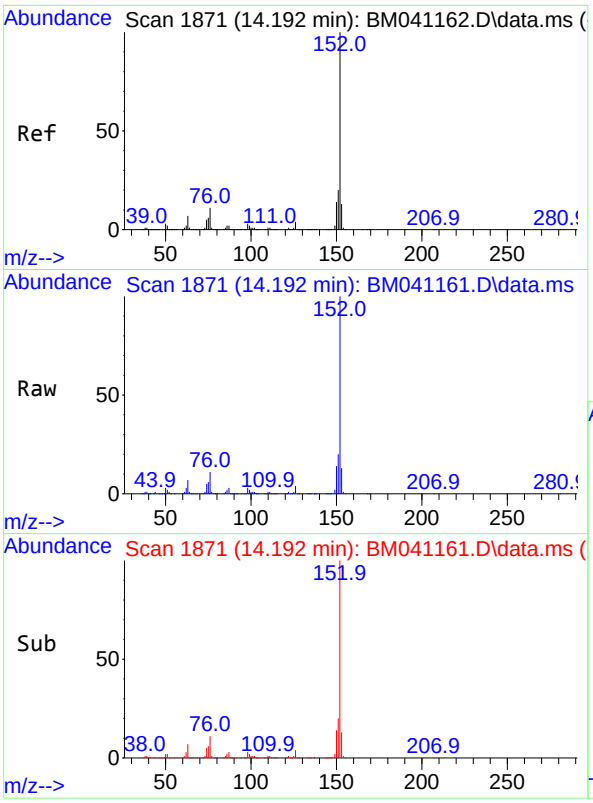


#48
2-Nitroaniline
Concen: 20.047 ng
RT: 13.569 min Scan# 1765
Delta R.T. -0.000 min
Lab File: BM041161.D
Acq: 28 Jul 2023 12:06

Tgt Ion: 65 Resp: 142913

Ion	Ratio	Lower	Upper
65	100		
92	67.2	53.0	79.4
138	96.9	79.1	118.7

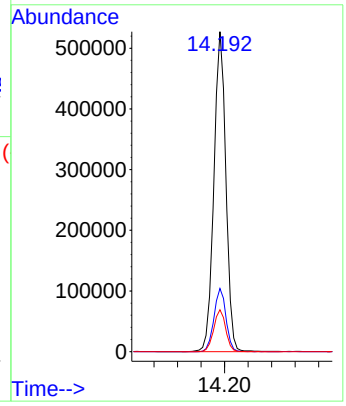




#49
Acenaphthylene
Concen: 20.644 ng
RT: 14.192 min Scan# 1
Delta R.T. -0.000 min
Lab File: BM041161.D
Acq: 28 Jul 2023 12:06

Tgt Ion:152 Resp: 74415

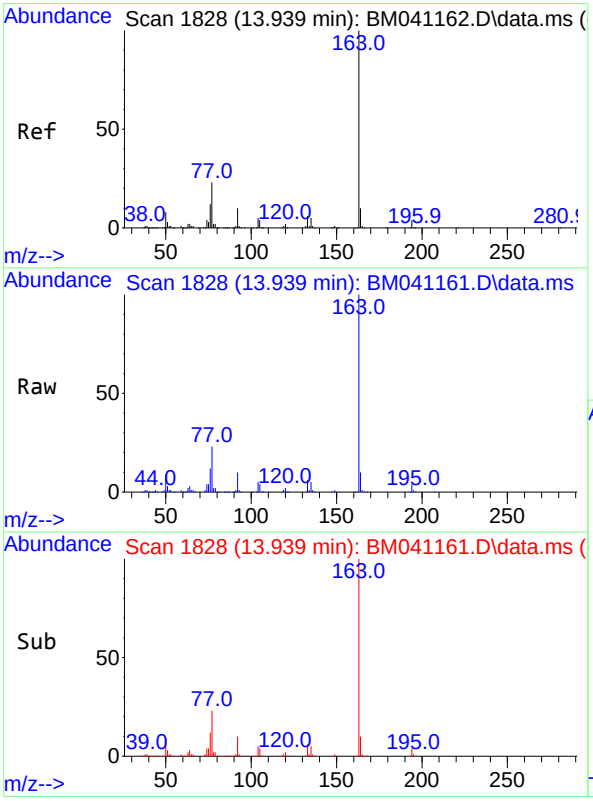
Ion	Ratio	Lower	Upper
152	100		
151	19.7	16.1	24.1
153	13.1	10.5	15.7



Instrument :
BNA_M
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

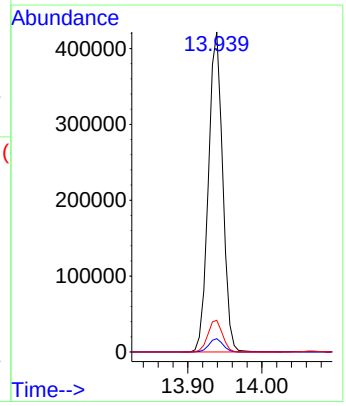
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

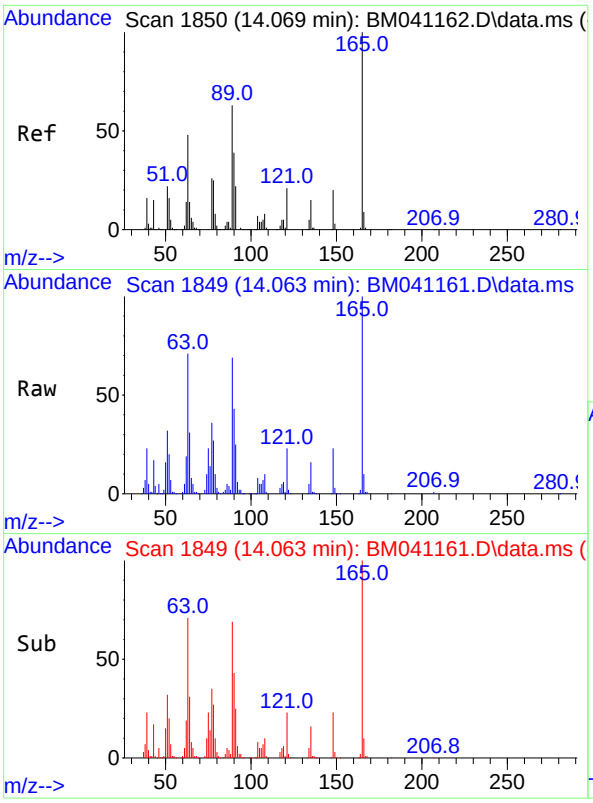


#50
Dimethylphthalate
Concen: 20.361 ng
RT: 13.939 min Scan# 1828
Delta R.T. 0.000 min
Lab File: BM041161.D
Acq: 28 Jul 2023 12:06

Tgt Ion:163 Resp: 565077

Ion	Ratio	Lower	Upper
163	100		
194	4.2	3.3	4.9
164	9.9	8.3	12.5

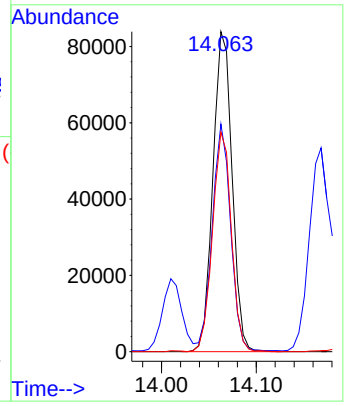




#51
2,6-Dinitrotoluene
Concen: 20.408 ng
RT: 14.063 min Scan# 1
Delta R.T. -0.006 min
Lab File: BM041161.D
Acq: 28 Jul 2023 12:06

Tgt Ion:165 Resp: 11735

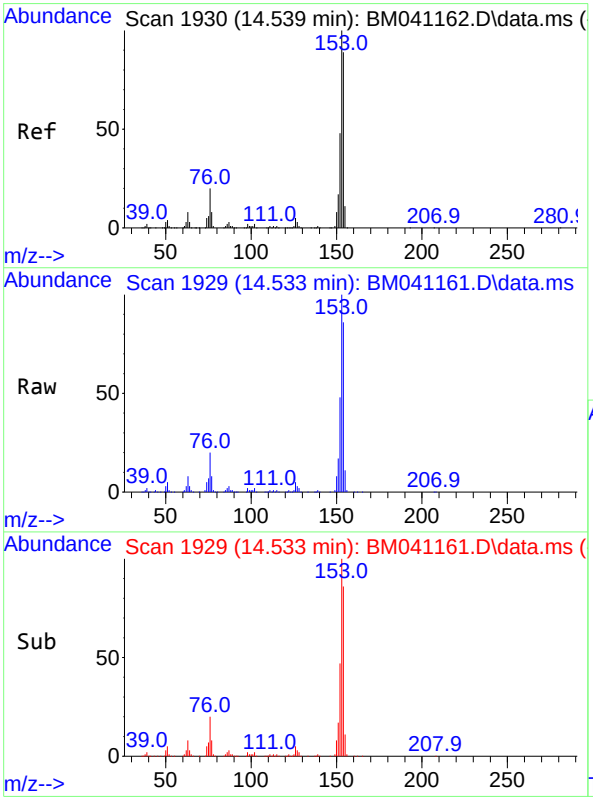
Ion	Ratio	Lower	Upper
165	100		
63	71.1	50.9	76.3
89	68.6	50.6	76.0



Instrument :
BNA_M
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

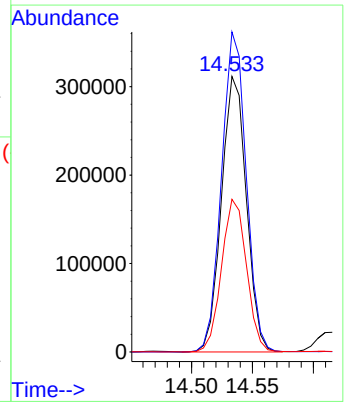
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

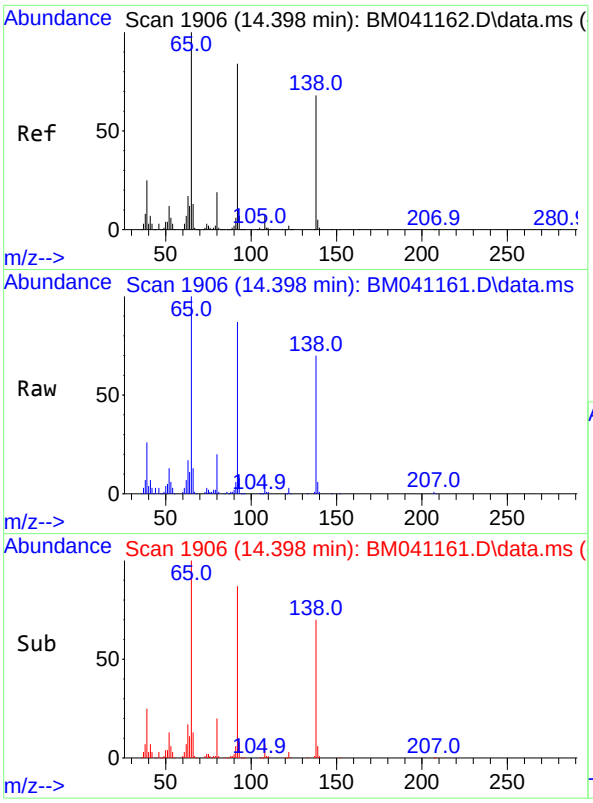


#52
Acenaphthene
Concen: 20.452 ng
RT: 14.533 min Scan# 1929
Delta R.T. -0.006 min
Lab File: BM041161.D
Acq: 28 Jul 2023 12:06

Tgt Ion:154 Resp: 444129

Ion	Ratio	Lower	Upper
154	100		
153	116.1	90.2	135.4
152	55.4	43.4	65.0

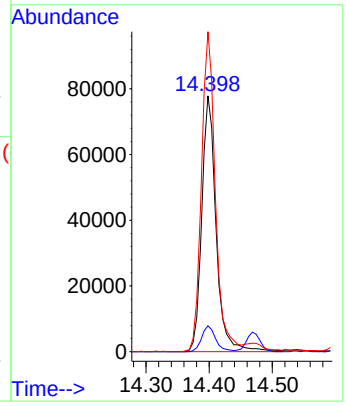




#53
3-Nitroaniline
Concen: 19.978 ng
RT: 14.398 min Scan# 1
Delta R.T. -0.000 min
Lab File: BM041161.D
Acq: 28 Jul 2023 12:06

Tgt Ion:138 Resp: 12235

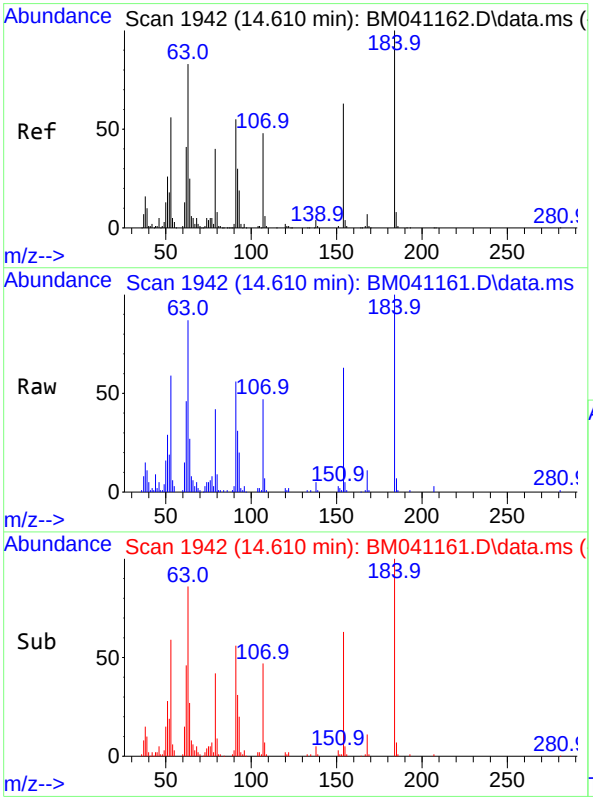
Ion	Ratio	Lower	Upper
138	100		
108	10.1	7.6	11.4
92	125.1	98.9	148.3



Instrument :
BNA_M
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

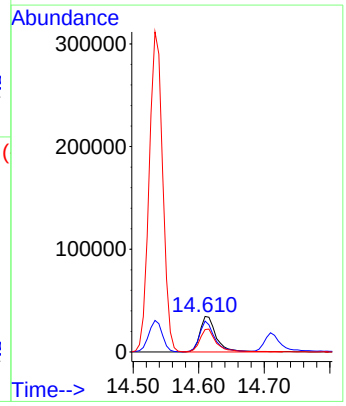
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

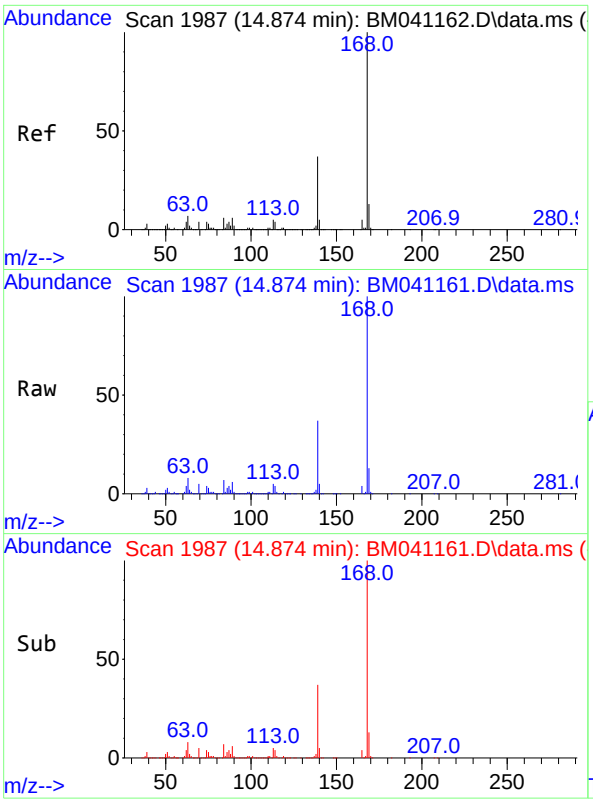


#54
2,4-Dinitrophenol
Concen: 20.163 ng
RT: 14.610 min Scan# 1942
Delta R.T. -0.000 min
Lab File: BM041161.D
Acq: 28 Jul 2023 12:06

Tgt Ion:184 Resp: 60018

Ion	Ratio	Lower	Upper
184	100		
63	86.9	66.5	99.7
154	63.2	52.8	79.2

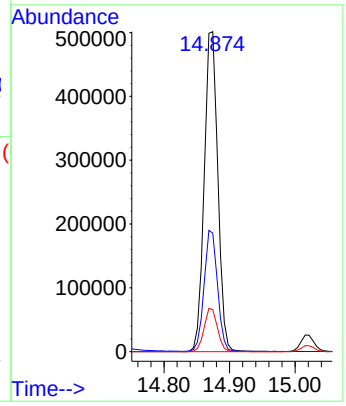




#55
Dibenzofuran
Concen: 20.500 ng
RT: 14.874 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM041161.D
Acq: 28 Jul 2023 12:06

Tgt Ion:168 Resp: 72633

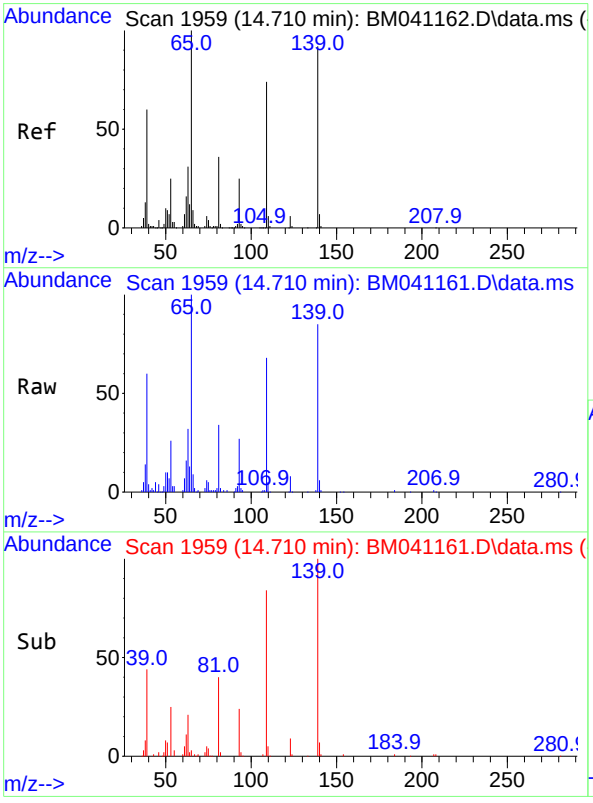
Ion	Ratio	Lower	Upper
168	100		
139	37.0	29.8	44.6
169	13.2	10.5	15.7



Instrument :
BNA_M
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

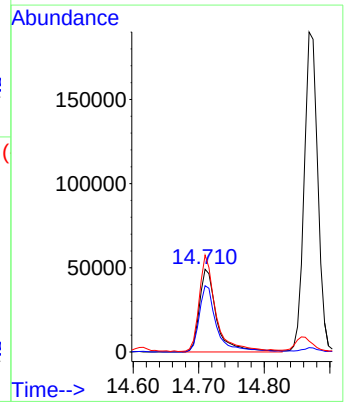
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

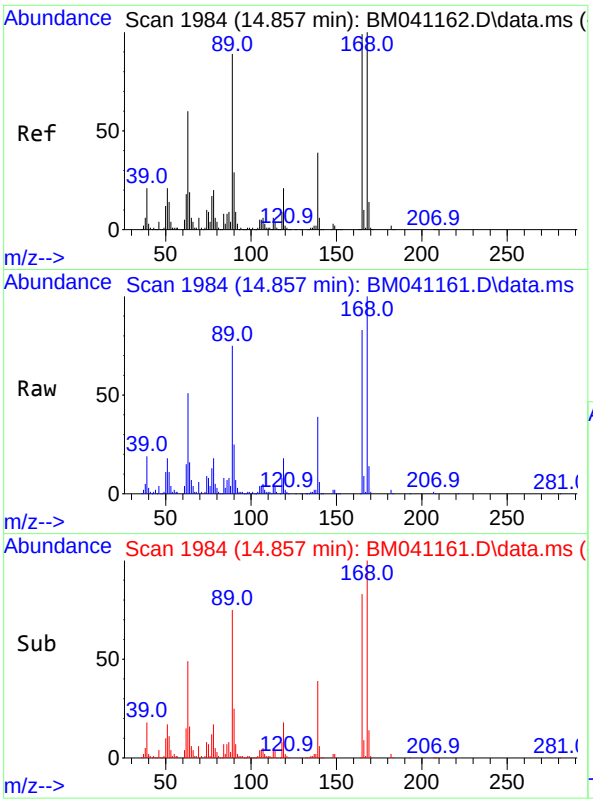


#56
4-Nitrophenol
Concen: 18.938 ng
RT: 14.710 min Scan# 1959
Delta R.T. -0.000 min
Lab File: BM041161.D
Acq: 28 Jul 2023 12:06

Tgt Ion:139 Resp: 90764

Ion	Ratio	Lower	Upper
139	100		
109	80.1	61.2	101.2
65	117.0	89.5	129.5

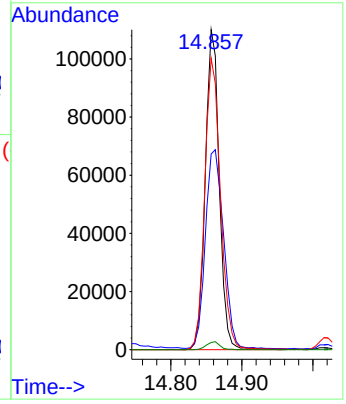




#57
2,4-Dinitrotoluene
Concen: 19.998 ng
RT: 14.857 min Scan# 1
Delta R.T. -0.000 min
Lab File: BM041161.D
Acq: 28 Jul 2023 12:06

Tgt Ion:165 Resp: 15067

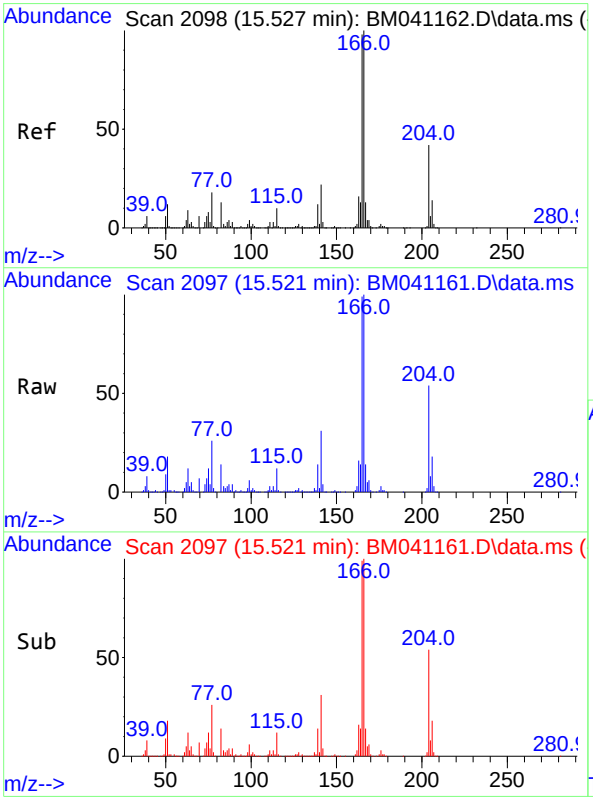
Ion	Ratio	Lower	Upper
165	100		
63	61.2	48.3	72.5
89	91.1	71.8	107.8
182	2.2	2.0	3.0



Instrument :
BNA_M
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

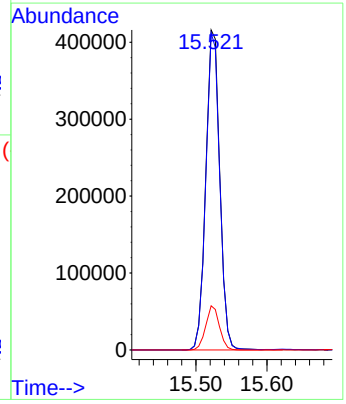
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

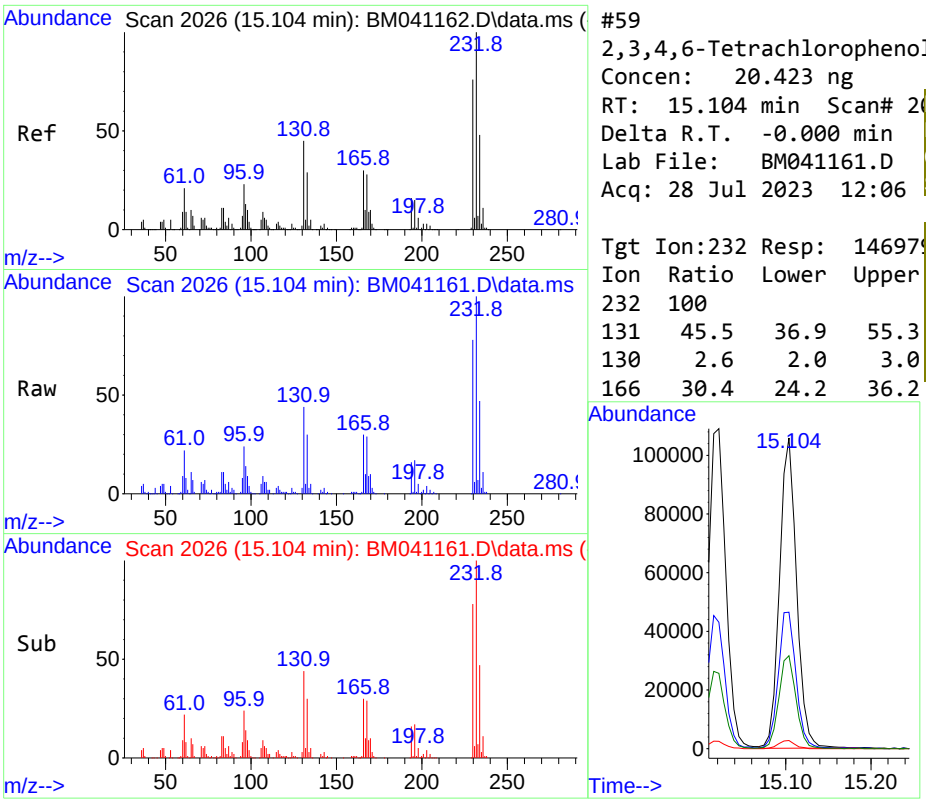


#58
Fluorene
Concen: 20.434 ng
RT: 15.521 min Scan# 2097
Delta R.T. -0.006 min
Lab File: BM041161.D
Acq: 28 Jul 2023 12:06

Tgt Ion:166 Resp: 571166

Ion	Ratio	Lower	Upper
166	100		
165	99.1	78.2	117.4
167	13.8	10.6	16.0





#59
2,3,4,6-Tetrachlorophenol
Concen: 20.423 ng
RT: 15.104 min Scan# 2
Delta R.T. -0.000 min
Lab File: BM041161.D
Acq: 28 Jul 2023 12:06

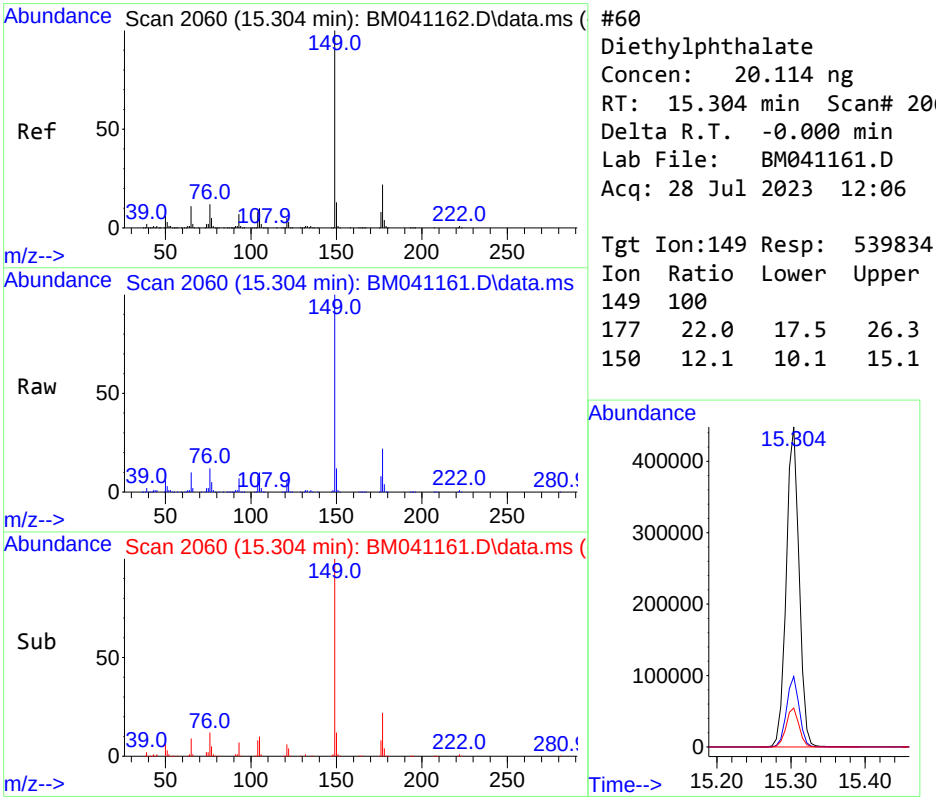
Tgt Ion:232 Resp: 14697

Ion	Ratio	Lower	Upper
232	100		
131	45.5	36.9	55.3
130	2.6	2.0	3.0
166	30.4	24.2	36.2

Instrument :
BNA_M
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

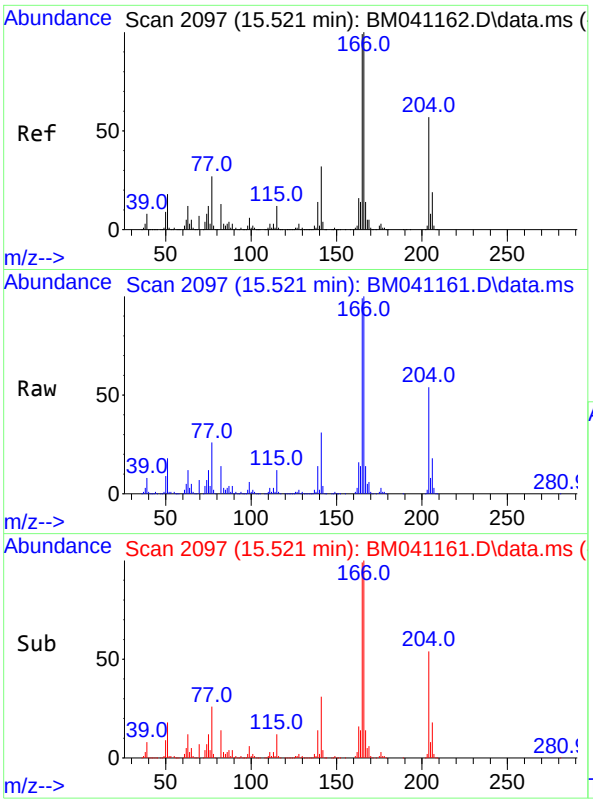
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023



#60
Diethylphthalate
Concen: 20.114 ng
RT: 15.304 min Scan# 2060
Delta R.T. -0.000 min
Lab File: BM041161.D
Acq: 28 Jul 2023 12:06

Tgt Ion:149 Resp: 539834

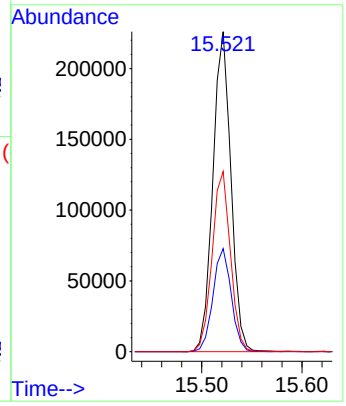
Ion	Ratio	Lower	Upper
149	100		
177	22.0	17.5	26.3
150	12.1	10.1	15.1



#61
4-Chlorophenyl-phenylether
Concen: 20.174 ng
RT: 15.521 min Scan# 2
Delta R.T. -0.000 min
Lab File: BM041161.D
Acq: 28 Jul 2023 12:06

Tgt Ion:204 Resp: 28256

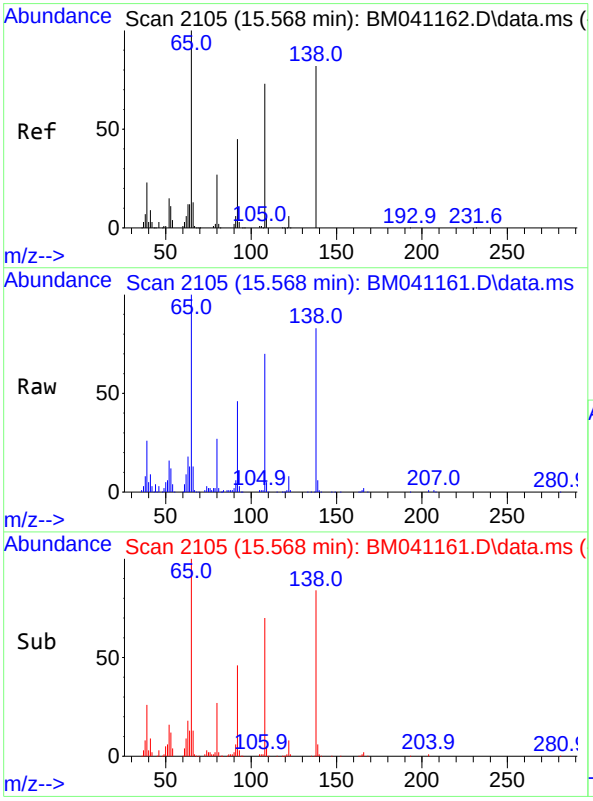
Ion	Ratio	Lower	Upper
204	100		
206	32.2	26.5	39.7
141	56.3	44.8	67.2



Instrument :
BNA_M
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

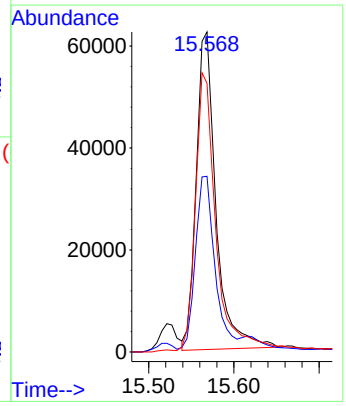
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

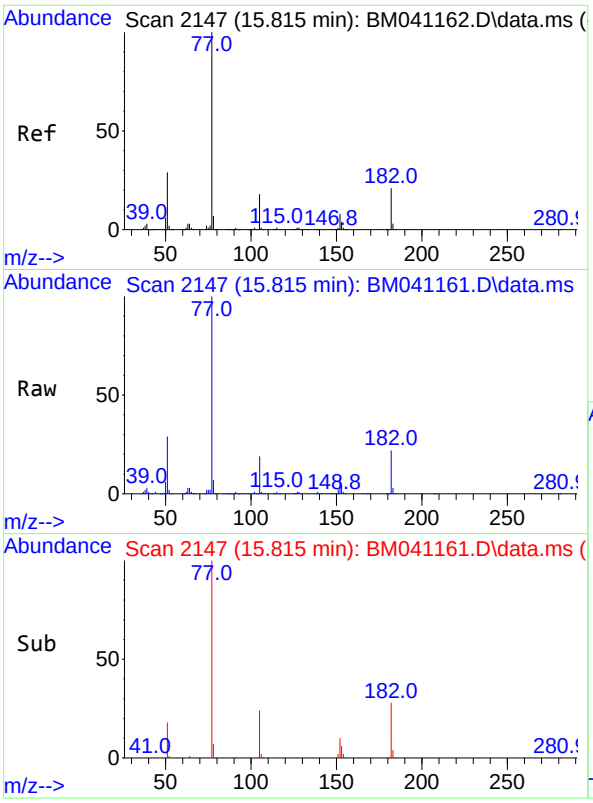


#62
4-Nitroaniline
Concen: 19.129 ng
RT: 15.568 min Scan# 2105
Delta R.T. 0.000 min
Lab File: BM041161.D
Acq: 28 Jul 2023 12:06

Tgt Ion:138 Resp: 100578

Ion	Ratio	Lower	Upper
138	100		
92	54.9	35.1	75.1
108	84.0	67.8	107.8

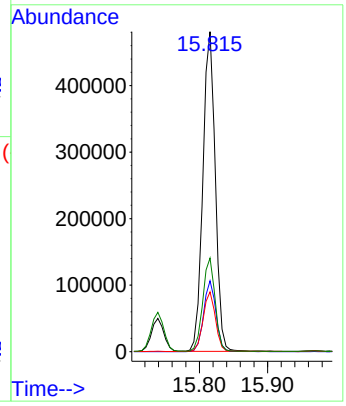




#63
Azobenzene
Concen: 20.705 ng
RT: 15.815 min Scan# 21
Delta R.T. 0.000 min
Lab File: BM041161.D
Acq: 28 Jul 2023 12:06

Tgt Ion: 77 Resp: 60871

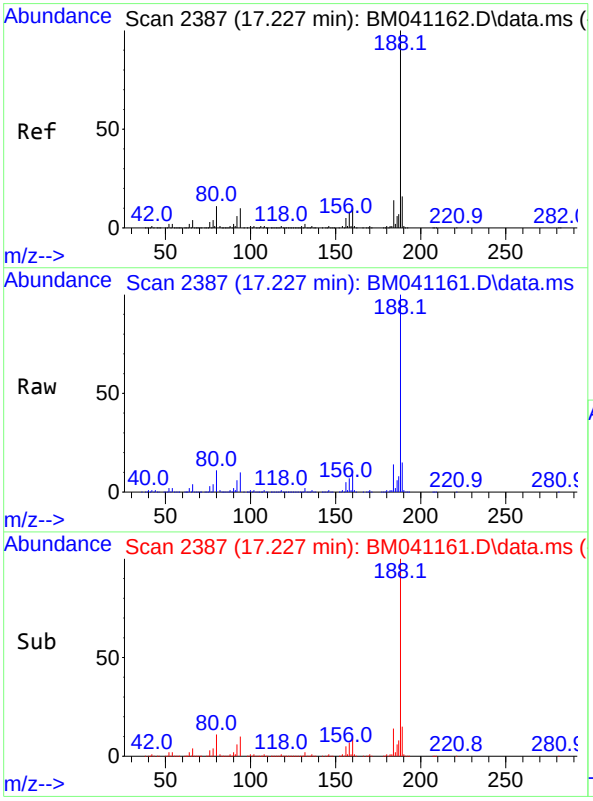
Ion	Ratio	Lower	Upper
77	100		
182	22.2	1.3	41.3
105	18.7	0.0	38.5
51	29.3	9.1	49.1



Instrument :
BNA_M
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

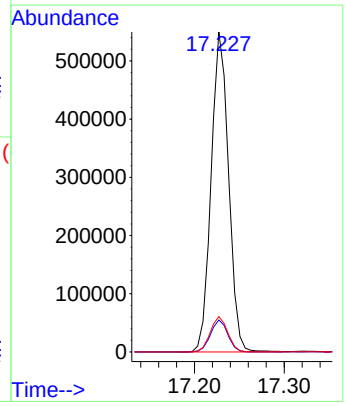
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

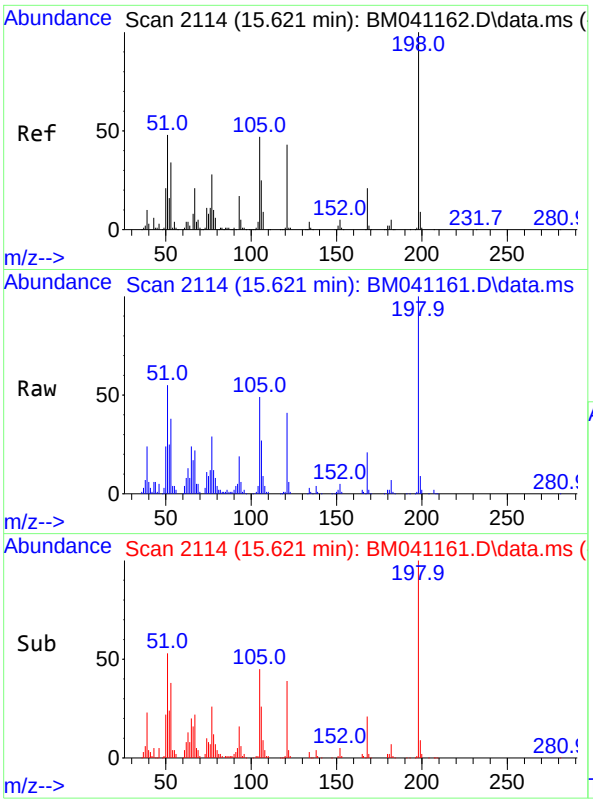


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.227 min Scan# 2387
Delta R.T. -0.000 min
Lab File: BM041161.D
Acq: 28 Jul 2023 12:06

Tgt Ion:188 Resp: 741601

Ion	Ratio	Lower	Upper
188	100		
94	10.0	8.2	12.2
80	11.1	8.6	13.0

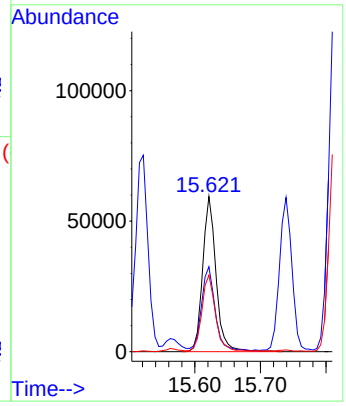




#65
4,6-Dinitro-2-methylphenol
Concen: 18.743 ng
RT: 15.621 min Scan# 2
Delta R.T. 0.000 min
Lab File: BM041161.D
Acq: 28 Jul 2023 12:06

Tgt Ion:198 Resp: 8420

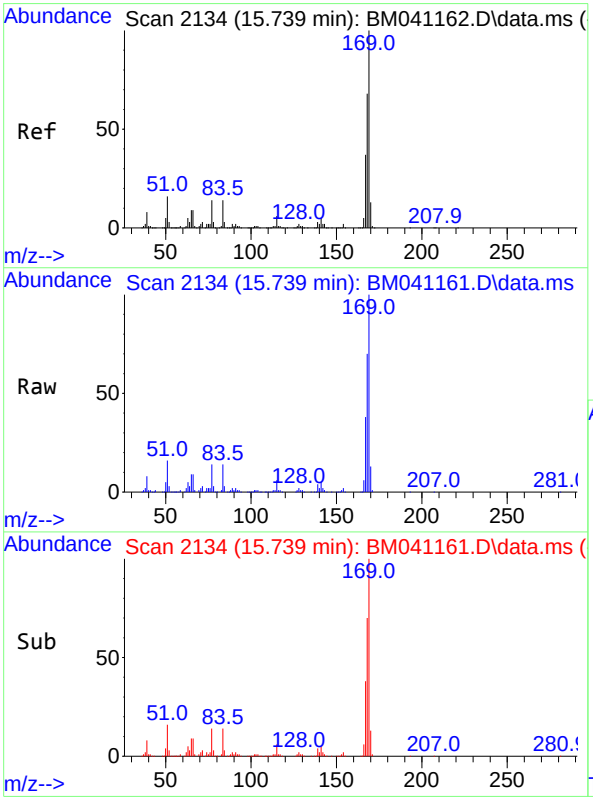
Ion	Ratio	Lower	Upper
198	100		
51	54.8	31.7	71.7
105	49.3	27.8	67.8



Instrument :
BNA_M
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

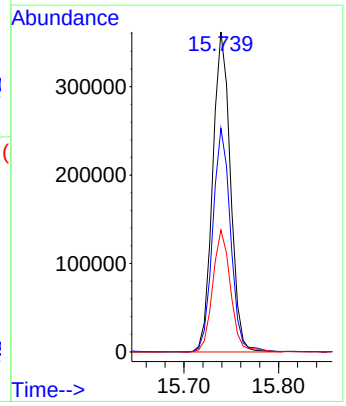
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

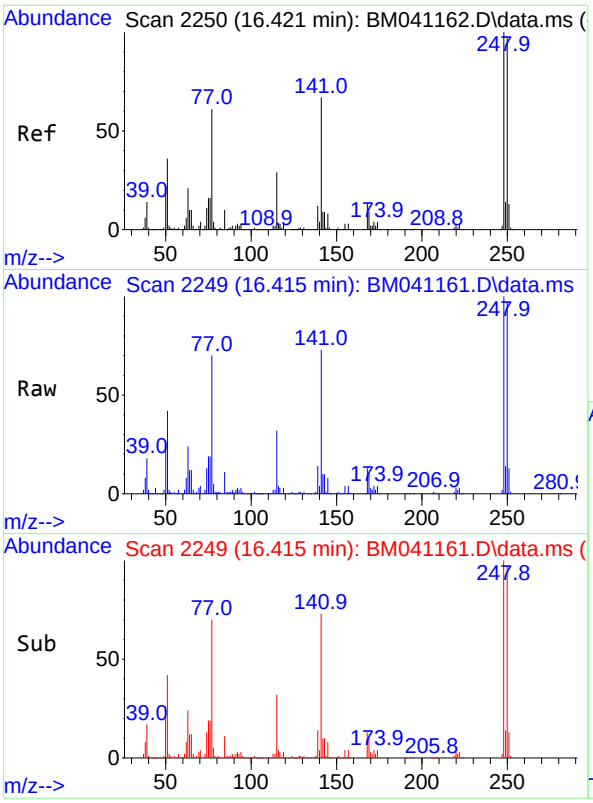


#66
n-Nitrosodiphenylamine
Concen: 20.446 ng
RT: 15.739 min Scan# 2134
Delta R.T. -0.000 min
Lab File: BM041161.D
Acq: 28 Jul 2023 12:06

Tgt Ion:169 Resp: 471563

Ion	Ratio	Lower	Upper
169	100		
168	69.9	54.6	81.8
167	38.1	29.9	44.9

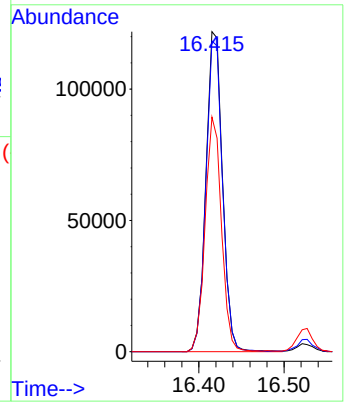




#67
4-Bromophenyl-phenylether
Concen: 20.241 ng
RT: 16.415 min Scan# 2
Delta R.T. -0.006 min
Lab File: BM041161.D
Acq: 28 Jul 2023 12:06

Tgt Ion:248 Resp: 16457

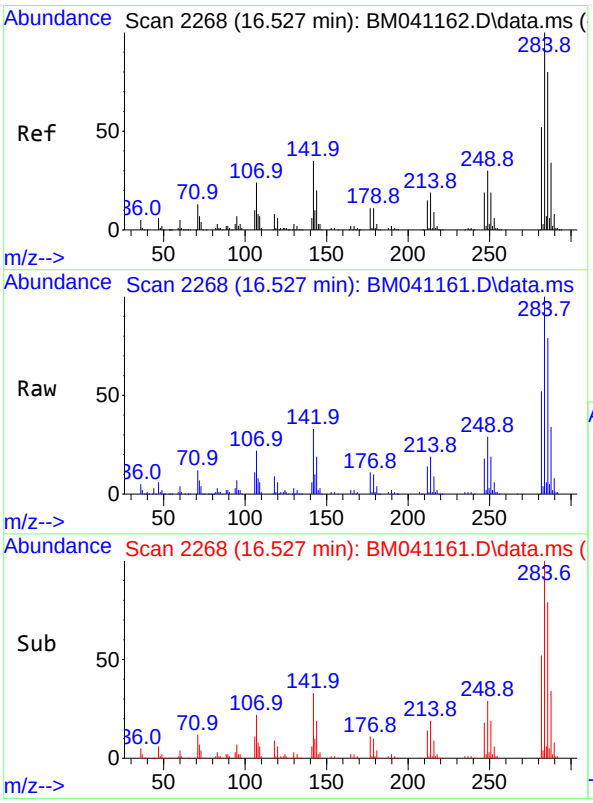
Ion	Ratio	Lower	Upper
248	100		
250	97.1	78.0	117.0
141	73.3	53.8	80.8



Instrument :
BNA_M
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

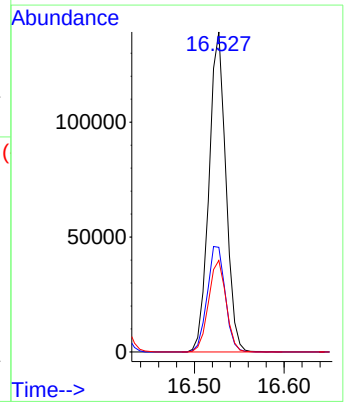
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

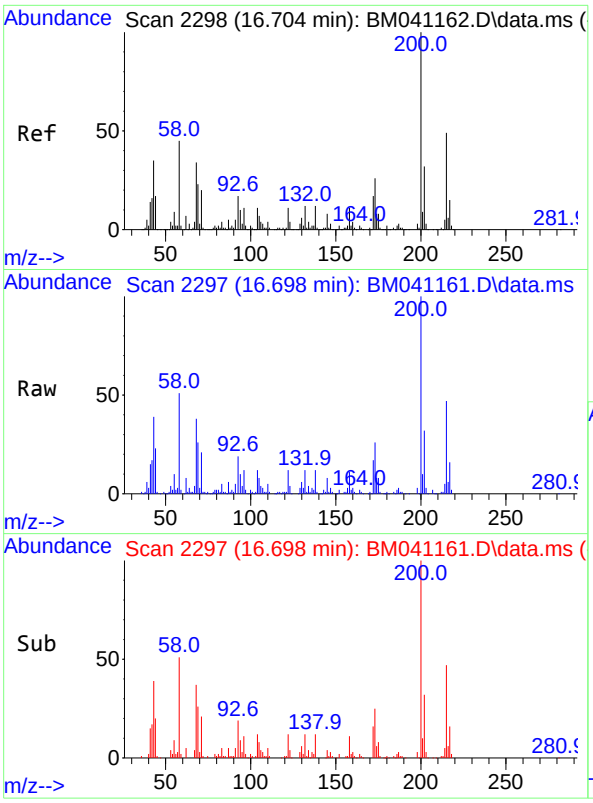


#68
Hexachlorobenzene
Concen: 20.149 ng
RT: 16.527 min Scan# 2268
Delta R.T. -0.000 min
Lab File: BM041161.D
Acq: 28 Jul 2023 12:06

Tgt Ion:284 Resp: 182180

Ion	Ratio	Lower	Upper
284	100		
142	32.7	28.0	42.0
249	32.0	23.7	35.5

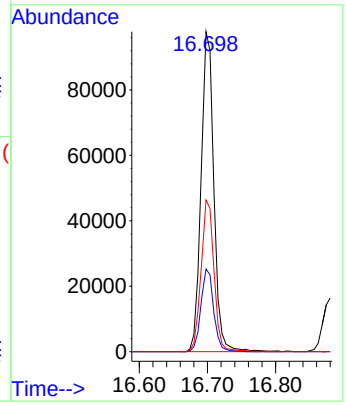




#69
Atrazine
Concen: 20.986 ng
RT: 16.698 min Scan# 2
Delta R.T. -0.006 min
Lab File: BM041161.D
Acq: 28 Jul 2023 12:06

Tgt Ion:200 Resp: 12711

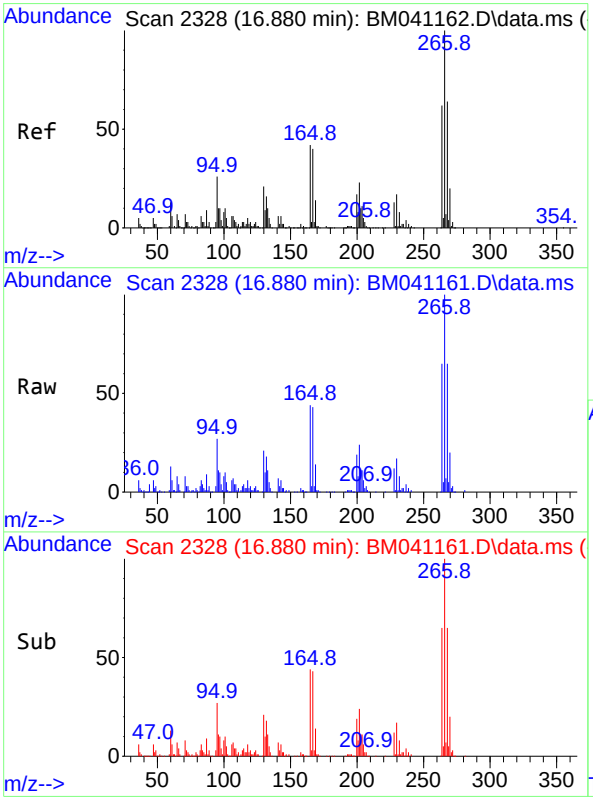
Ion	Ratio	Lower	Upper
200	100		
173	25.8	5.6	45.6
215	47.4	28.5	68.5



Instrument :
BNA_M
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

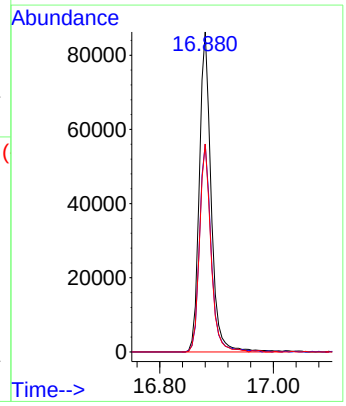
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

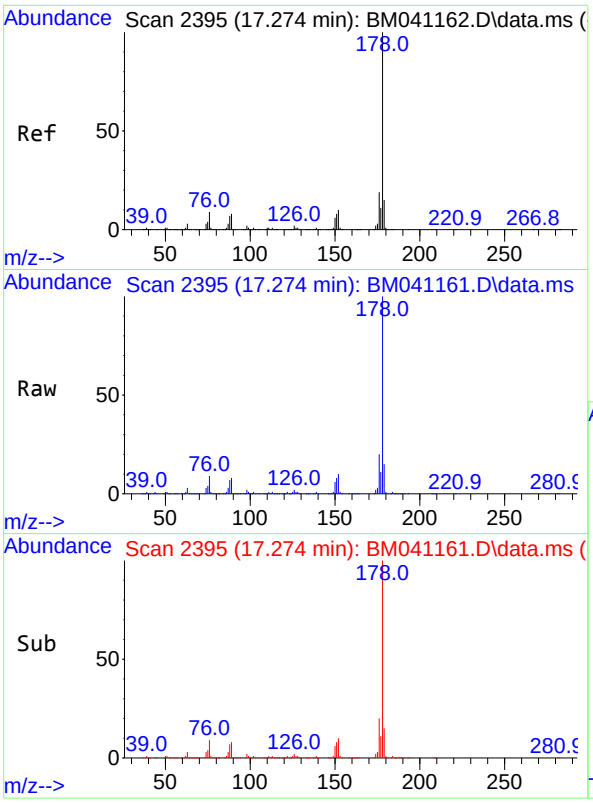


#70
Pentachlorophenol
Concen: 19.936 ng
RT: 16.880 min Scan# 2328
Delta R.T. -0.000 min
Lab File: BM041161.D
Acq: 28 Jul 2023 12:06

Tgt Ion:266 Resp: 124812

Ion	Ratio	Lower	Upper
266	100		
268	65.0	51.0	76.6
264	65.0	49.4	74.2

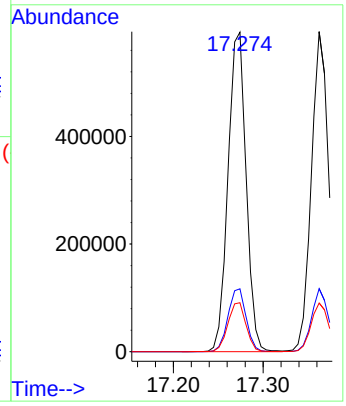




#71
Phenanthrene
Concen: 20.191 ng
RT: 17.274 min Scan# 2
Delta R.T. -0.000 min
Lab File: BM041161.D
Acq: 28 Jul 2023 12:06

Tgt Ion:178 Resp: 83196

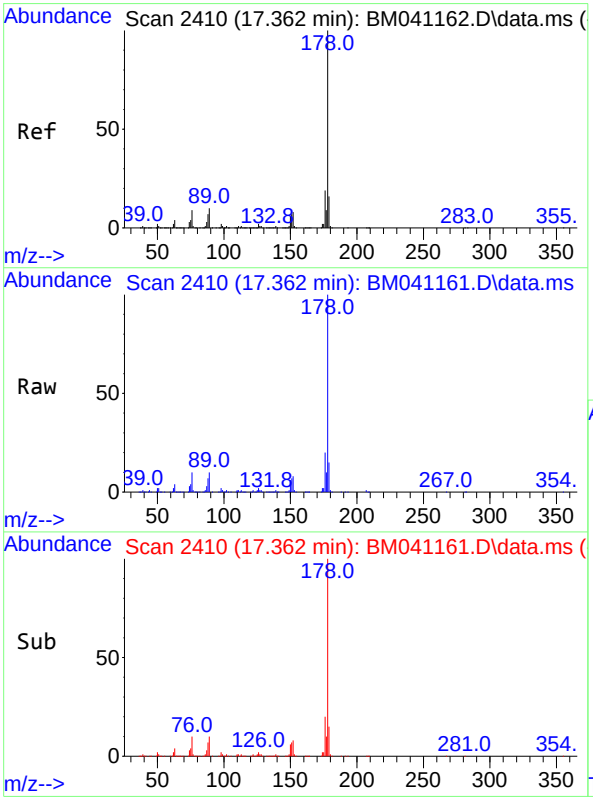
Ion	Ratio	Lower	Upper
178	100		
176	19.7	15.6	23.4
179	15.3	12.1	18.1



Instrument :
BNA_M
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

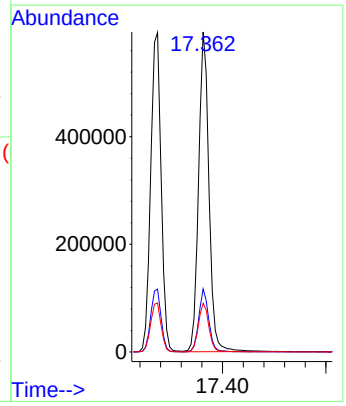
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

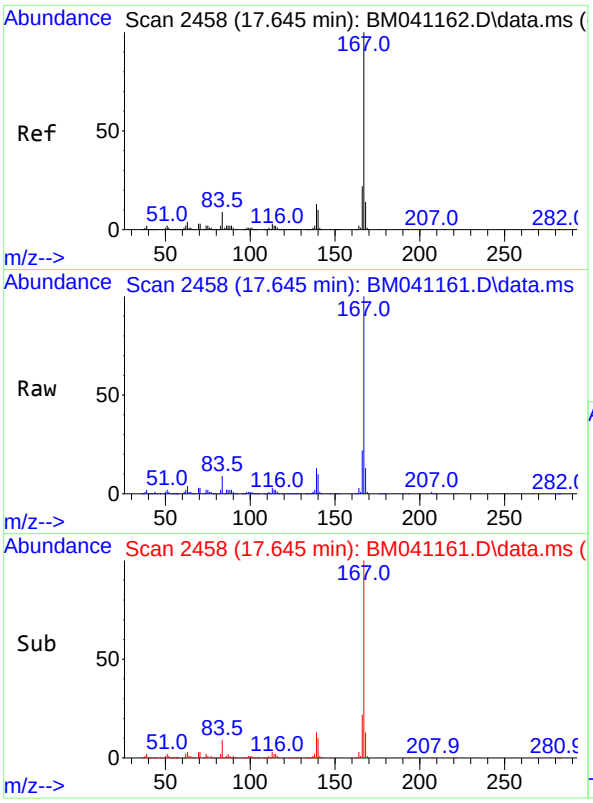


#72
Anthracene
Concen: 20.285 ng
RT: 17.362 min Scan# 2410
Delta R.T. -0.000 min
Lab File: BM041161.D
Acq: 28 Jul 2023 12:06

Tgt Ion:178 Resp: 826633

Ion	Ratio	Lower	Upper
178	100		
176	19.7	15.2	22.8
179	15.2	12.4	18.6

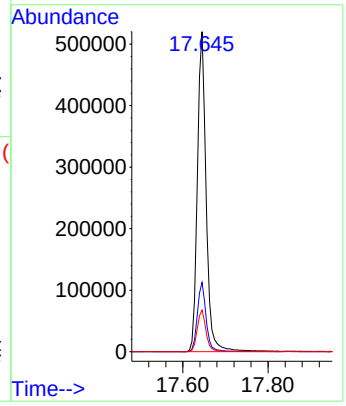




#73
Carbazole
Concen: 20.198 ng
RT: 17.645 min Scan# 2
Delta R.T. -0.000 min
Lab File: BM041161.D
Acq: 28 Jul 2023 12:06

Tgt Ion:167 Resp: 74496

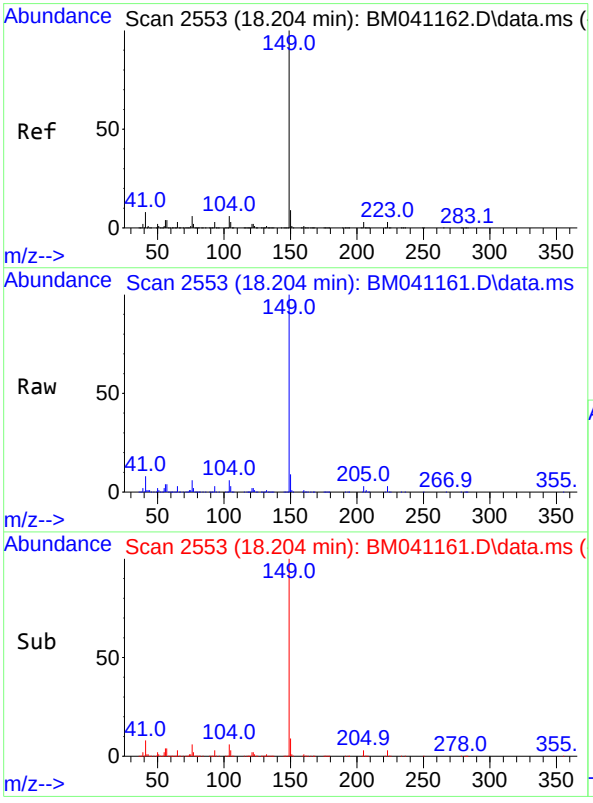
Ion	Ratio	Lower	Upper
167	100		
166	21.6	17.3	25.9
139	13.0	10.3	15.5



Instrument :
BNA_M
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

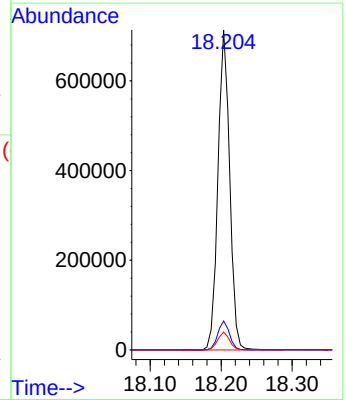
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

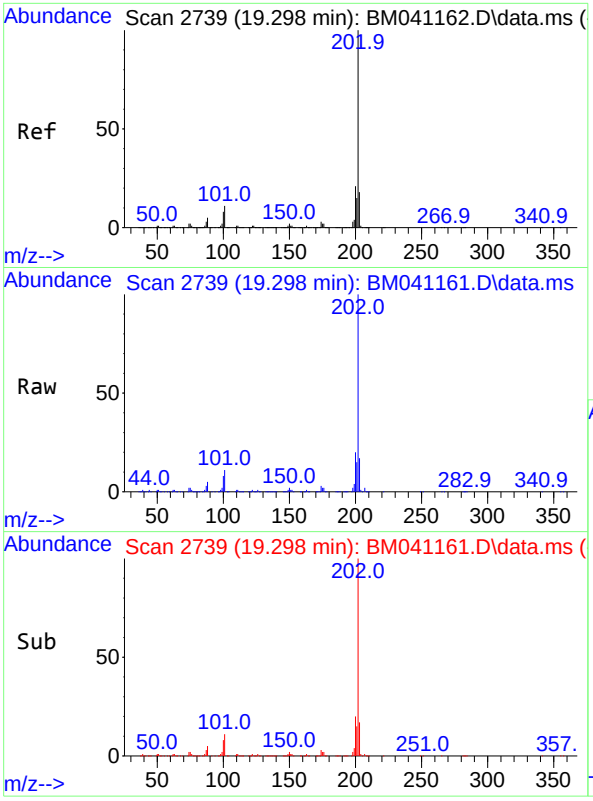


#74
Di-n-butylphthalate
Concen: 19.548 ng
RT: 18.204 min Scan# 2553
Delta R.T. -0.000 min
Lab File: BM041161.D
Acq: 28 Jul 2023 12:06

Tgt Ion:149 Resp: 814741

Ion	Ratio	Lower	Upper
149	100		
150	9.1	7.3	10.9
104	5.6	4.5	6.7

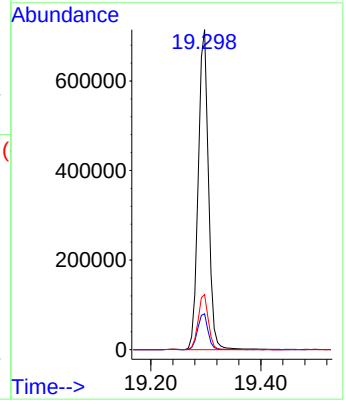




#75
Fluoranthene
Concen: 19.853 ng
RT: 19.298 min Scan# 2
Delta R.T. -0.000 min
Lab File: BM041161.D
Acq: 28 Jul 2023 12:06

Tgt Ion:202 Resp: 91903

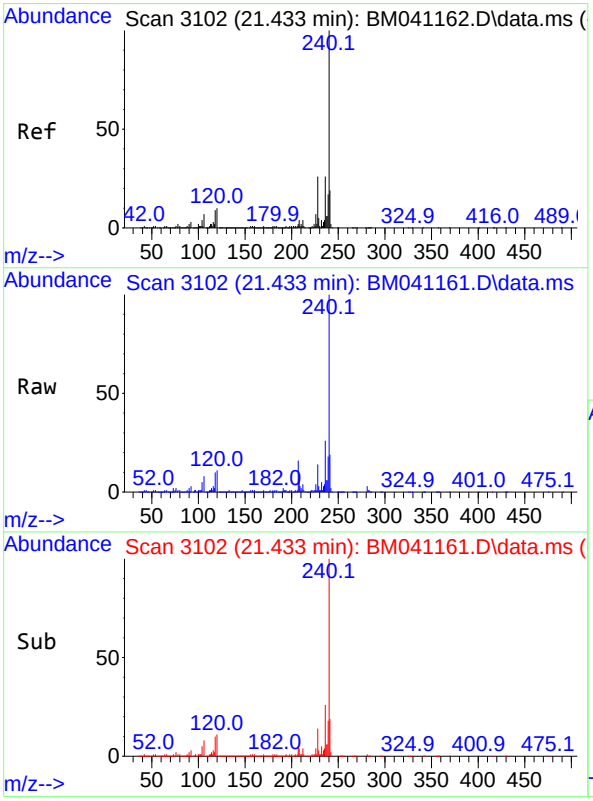
Ion	Ratio	Lower	Upper
202	100		
101	11.2	0.0	30.8
203	17.2	0.0	37.6



Instrument :
BNA_M
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

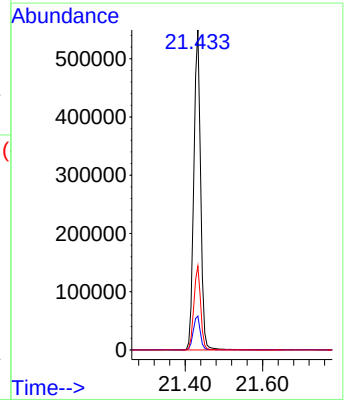
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

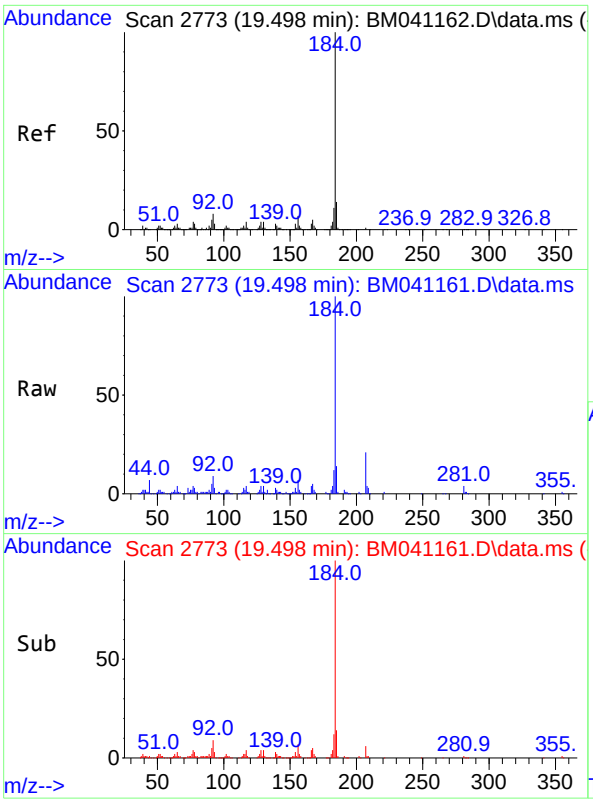


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.433 min Scan# 3102
Delta R.T. -0.000 min
Lab File: BM041161.D
Acq: 28 Jul 2023 12:06

Tgt Ion:240 Resp: 670247

Ion	Ratio	Lower	Upper
240	100		
120	10.6	8.3	12.5
236	26.3	20.6	30.8

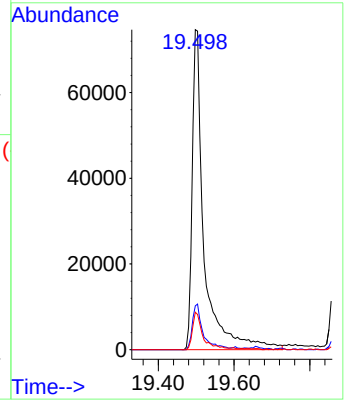




#77
Benzidine
Concen: 17.766 ng
RT: 19.498 min Scan# 2
Delta R.T. -0.000 min
Lab File: BM041161.D
Acq: 28 Jul 2023 12:06

Tgt Ion:184 Resp: 16304

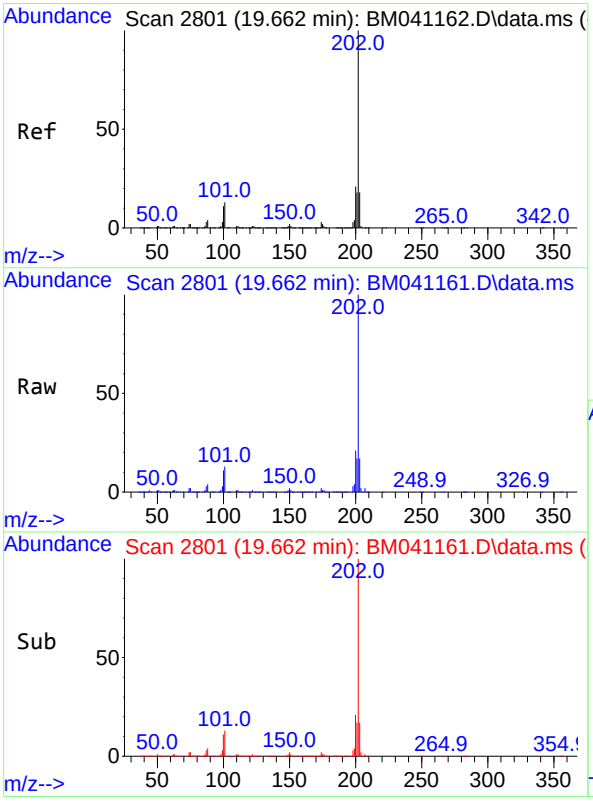
Ion	Ratio	Lower	Upper
184	100		
185	13.7	11.4	17.0
183	11.7	9.2	13.8



Instrument :
BNA_M
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

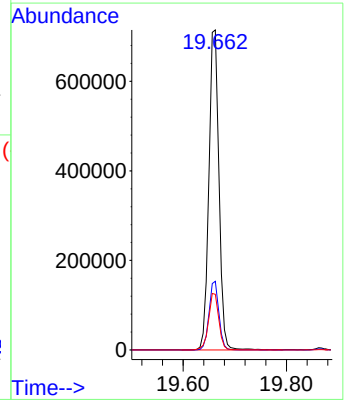
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

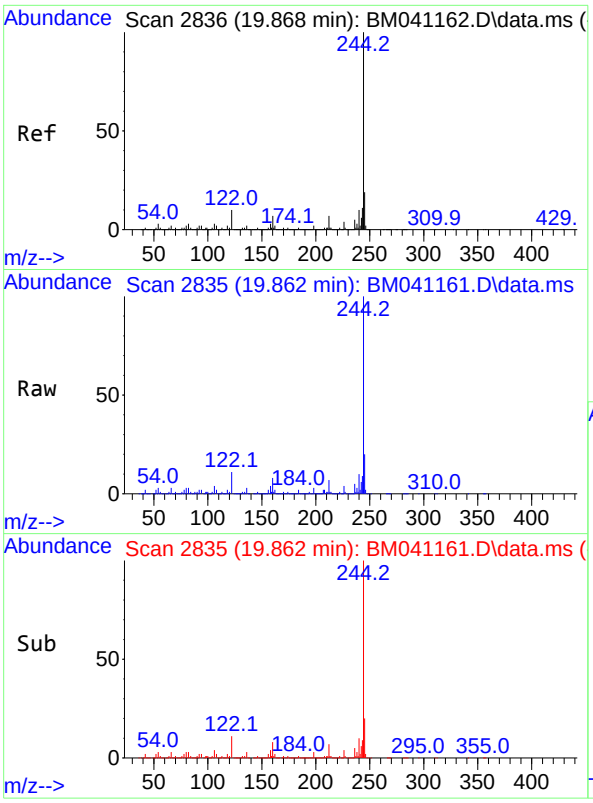


#78
Pyrene
Concen: 20.657 ng
RT: 19.662 min Scan# 2801
Delta R.T. -0.000 min
Lab File: BM041161.D
Acq: 28 Jul 2023 12:06

Tgt Ion:202 Resp: 968211

Ion	Ratio	Lower	Upper
202	100		
200	21.5	16.9	25.3
203	17.4	14.1	21.1

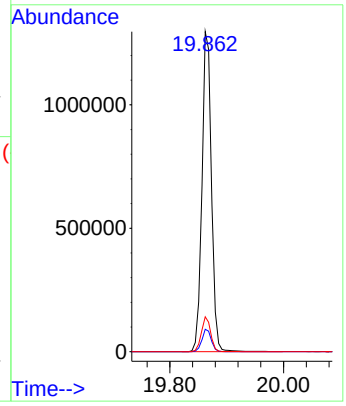




#79
Terphenyl-d14
Concen: 40.671 ng
RT: 19.862 min Scan# 2
Delta R.T. -0.006 min
Lab File: BM041161.D
Acq: 28 Jul 2023 12:06

Tgt Ion:244 Resp: 150769

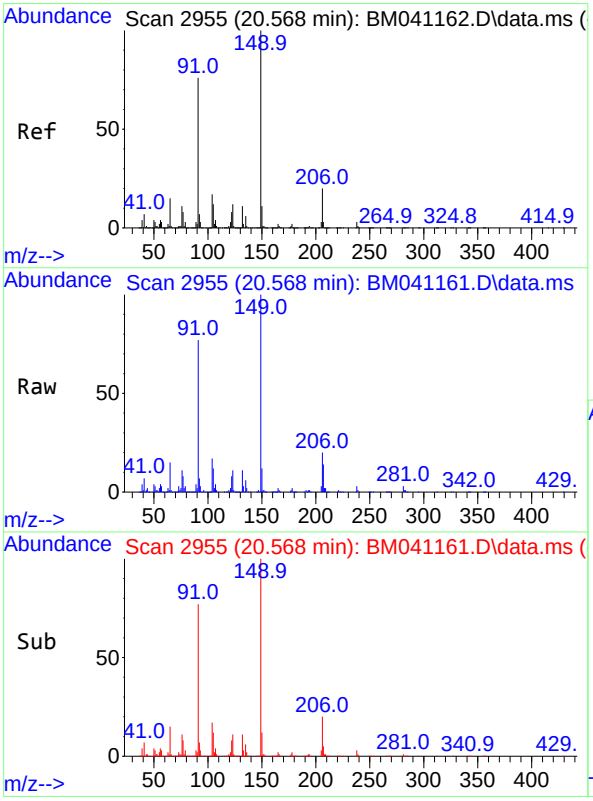
Ion	Ratio	Lower	Upper
244	100		
212	7.0	5.4	8.2
122	10.9	7.8	11.6



Instrument :
BNA_M
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

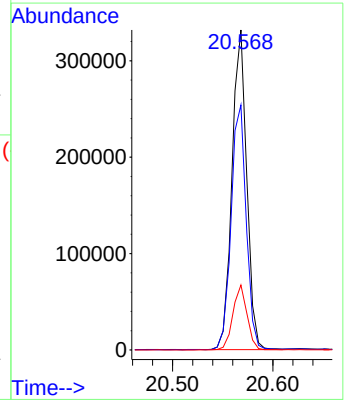
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

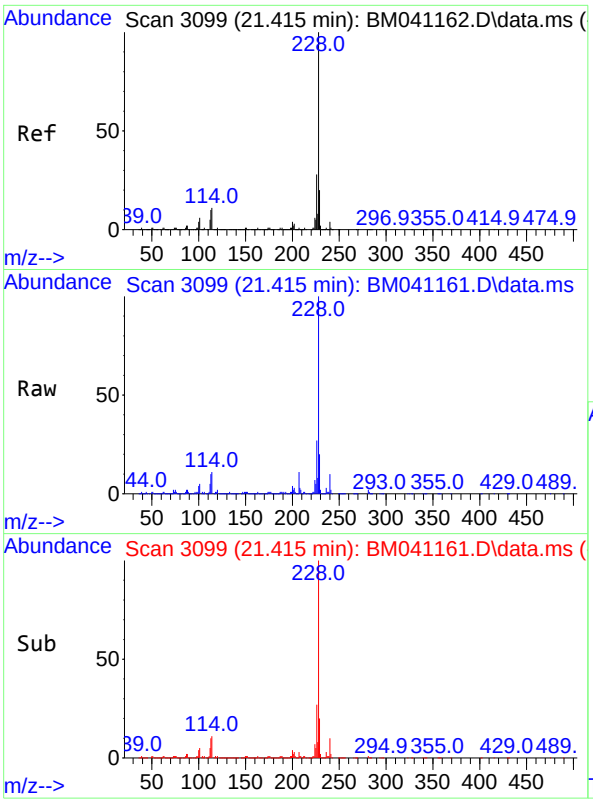


#80
Butylbenzylphthalate
Concen: 19.733 ng
RT: 20.568 min Scan# 2955
Delta R.T. 0.000 min
Lab File: BM041161.D
Acq: 28 Jul 2023 12:06

Tgt Ion:149 Resp: 337756

Ion	Ratio	Lower	Upper
149	100		
91	76.6	60.8	91.2
206	20.3	16.4	24.6

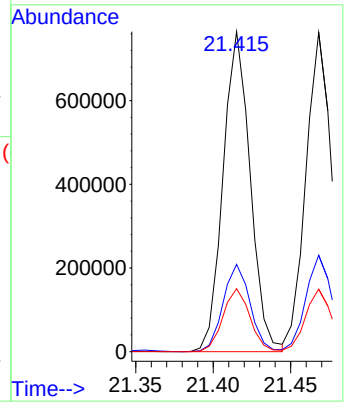




#81
Benzo(a)anthracene
Concen: 20.488 ng
RT: 21.415 min Scan# 3
Delta R.T. -0.000 min
Lab File: BM041161.D
Acq: 28 Jul 2023 12:06

Tgt Ion:228 Resp: 93091

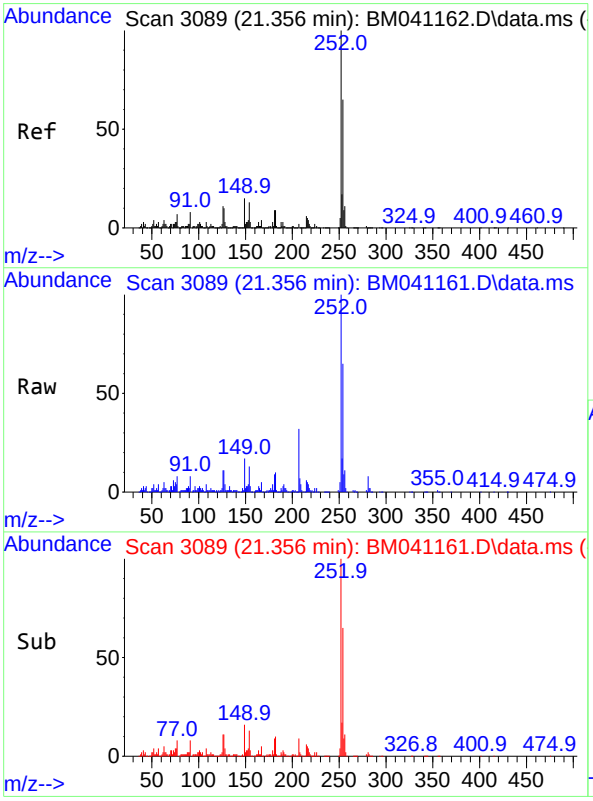
Ion	Ratio	Lower	Upper
228	100		
226	27.3	22.4	33.6
229	19.7	15.8	23.8



Instrument :
BNA_M
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

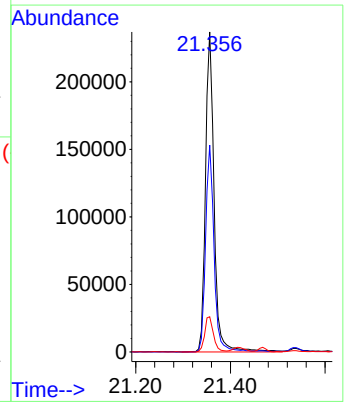
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

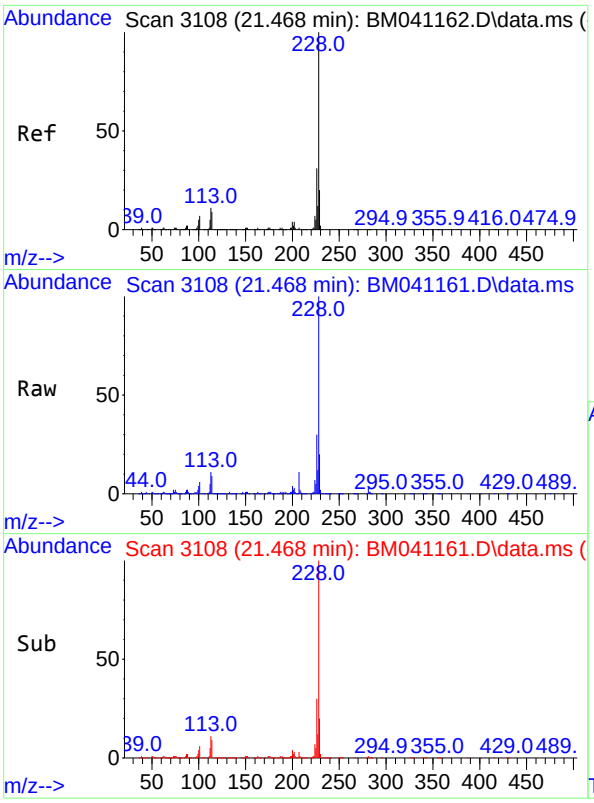


#82
3,3'-Dichlorobenzidine
Concen: 20.253 ng
RT: 21.356 min Scan# 3089
Delta R.T. -0.000 min
Lab File: BM041161.D
Acq: 28 Jul 2023 12:06

Tgt Ion:252 Resp: 300292

Ion	Ratio	Lower	Upper
252	100		
254	64.7	51.8	77.6
126	11.0	8.6	13.0

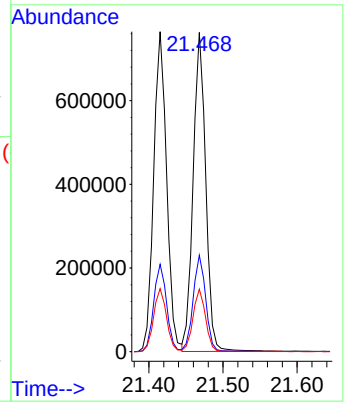




#83
Chrysene
Concen: 20.420 ng
RT: 21.468 min Scan# 3
Delta R.T. -0.000 min
Lab File: BM041161.D
Acq: 28 Jul 2023 12:06

Tgt Ion:228 Resp: 89741

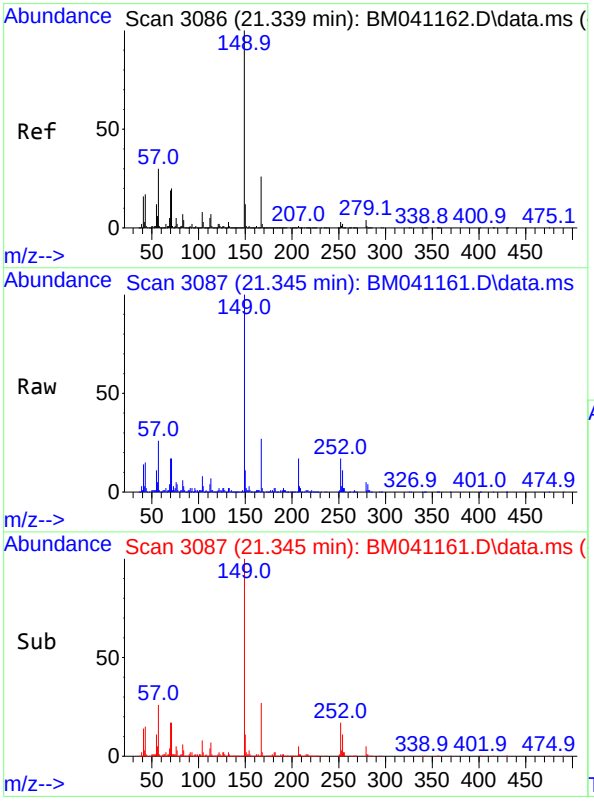
Ion	Ratio	Lower	Upper
228	100		
226	30.2	24.5	36.7
229	19.6	15.8	23.8



Instrument :
BNA_M
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

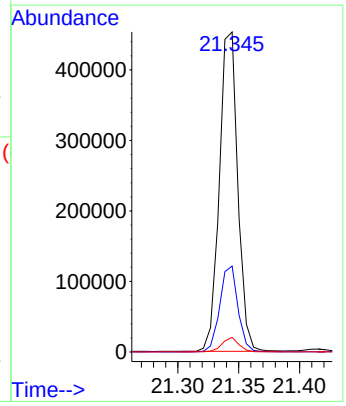
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

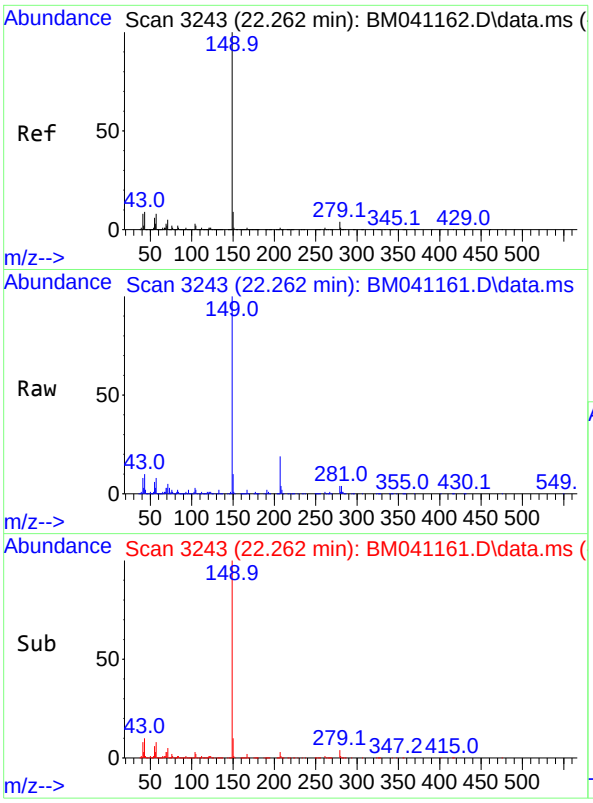


#84
Bis(2-ethylhexyl)phthalate
Concen: 19.155 ng
RT: 21.345 min Scan# 3087
Delta R.T. 0.006 min
Lab File: BM041161.D
Acq: 28 Jul 2023 12:06

Tgt Ion:149 Resp: 476891

Ion	Ratio	Lower	Upper
149	100		
167	26.9	21.0	31.6
279	4.6	3.1	4.7

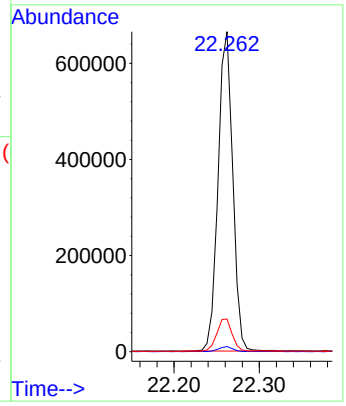




#85
Di-n-octyl phthalate
Concen: 18.356 ng
RT: 22.262 min Scan# 3
Delta R.T. 0.000 min
Lab File: BM041161.D
Acq: 28 Jul 2023 12:06

Tgt Ion:149 Resp: 79407

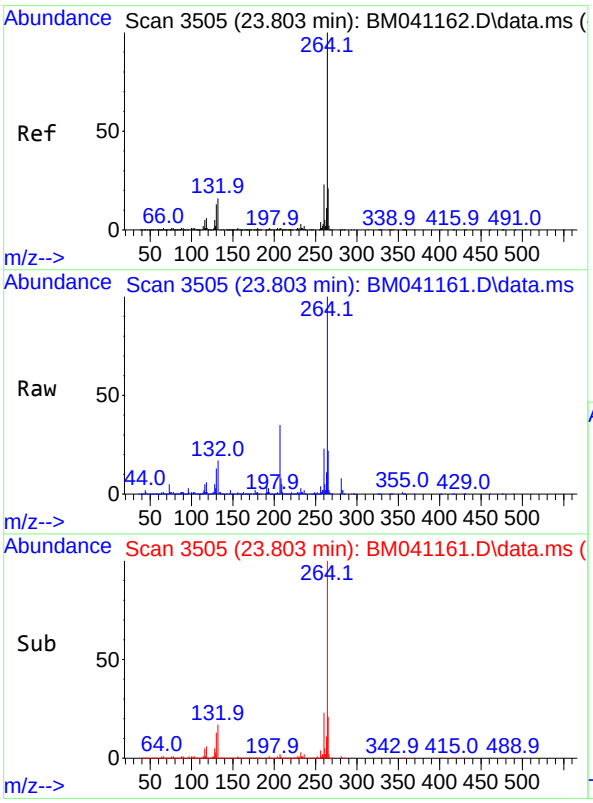
Ion	Ratio	Lower	Upper
149	100		
167	1.5	1.2	1.8
43	10.7	8.3	12.5



Instrument :
BNA_M
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

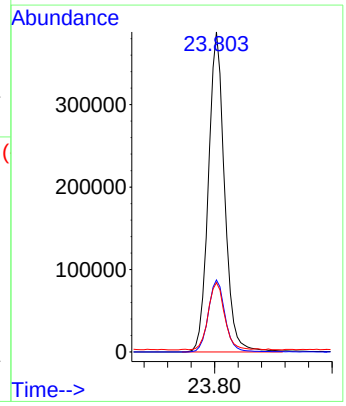
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

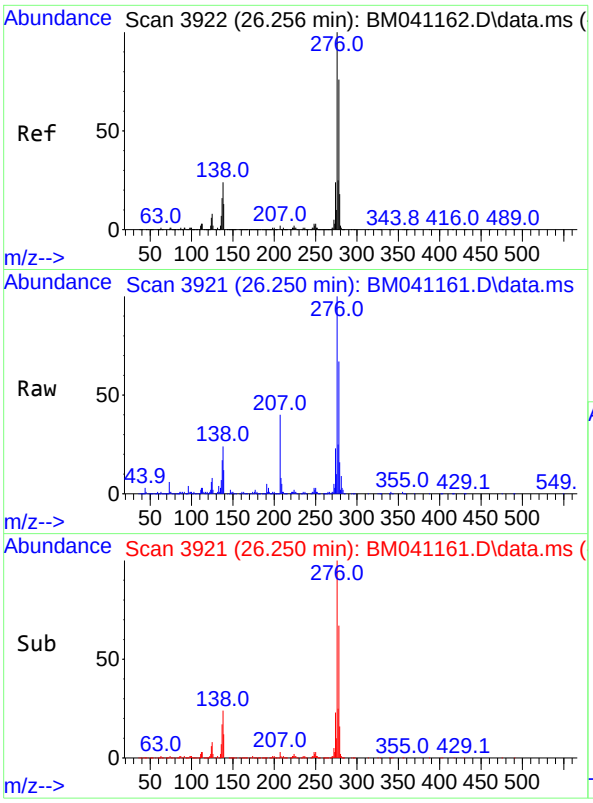


#86
Perylene-d12
Concen: 20.000 ng
RT: 23.803 min Scan# 3505
Delta R.T. -0.000 min
Lab File: BM041161.D
Acq: 28 Jul 2023 12:06

Tgt Ion:264 Resp: 743228

Ion	Ratio	Lower	Upper
264	100		
260	22.5	18.5	27.7
265	21.6	17.4	26.0

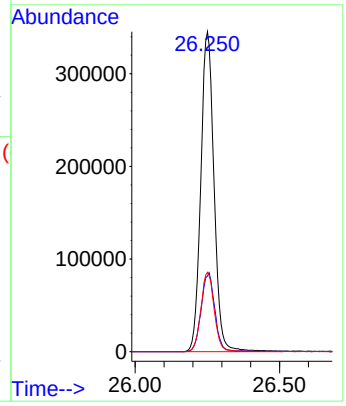




#87
Indeno(1,2,3-cd)pyrene
Concen: 20.094 ng
RT: 26.250 min Scan# 3
Delta R.T. -0.006 min
Lab File: BM041161.D
Acq: 28 Jul 2023 12:06

Tgt Ion:276 Resp: 109798

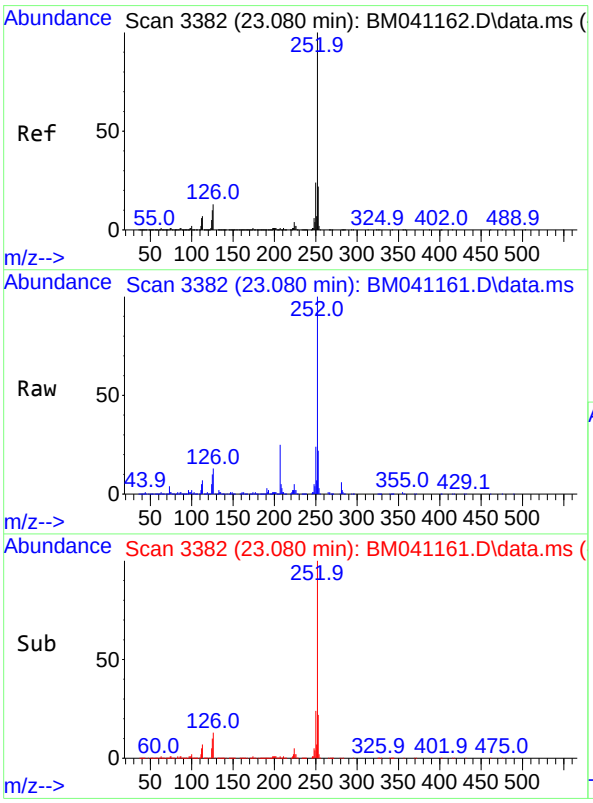
Ion	Ratio	Lower	Upper
276	100		
138	25.2	20.0	30.0
277	24.9	20.1	30.1



Instrument :
BNA_M
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

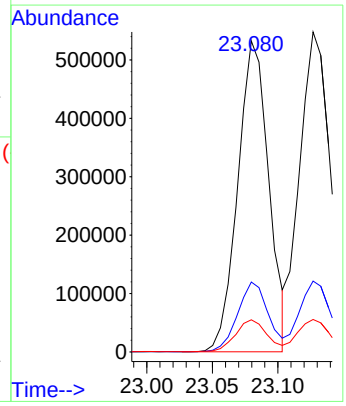
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

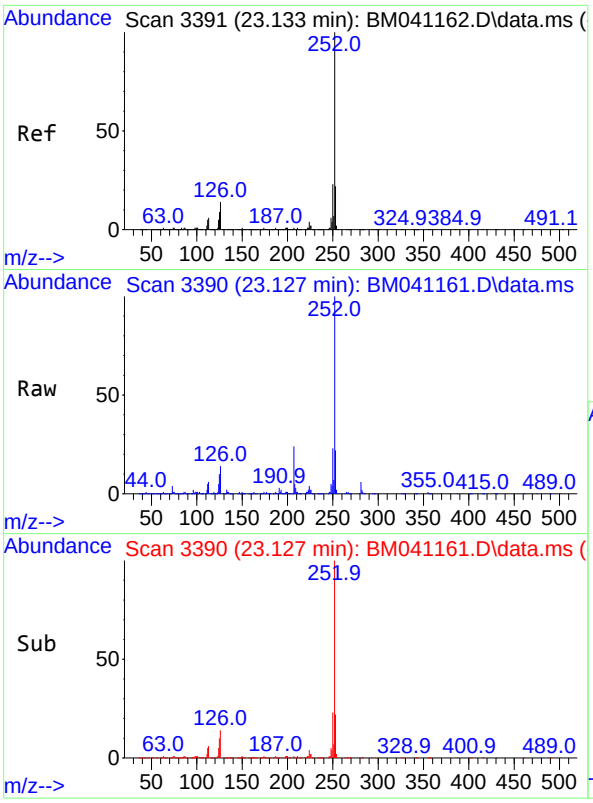


#88
Benzo(b)fluoranthene
Concen: 19.864 ng
RT: 23.080 min Scan# 3382
Delta R.T. -0.000 min
Lab File: BM041161.D
Acq: 28 Jul 2023 12:06

Tgt Ion:252 Resp: 877034

Ion	Ratio	Lower	Upper
252	100		
253	22.5	17.7	26.5
125	10.3	8.2	12.4

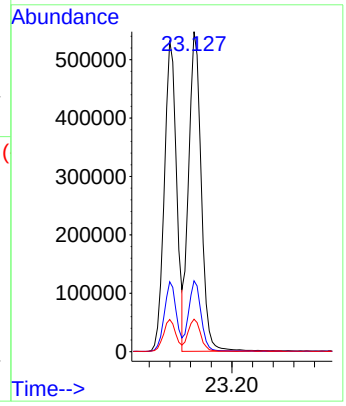




#89
Benzo(k)fluoranthene
Concen: 20.452 ng
RT: 23.127 min Scan# 3
Delta R.T. -0.006 min
Lab File: BM041161.D
Acq: 28 Jul 2023 12:06

Tgt Ion:252 Resp: 92369

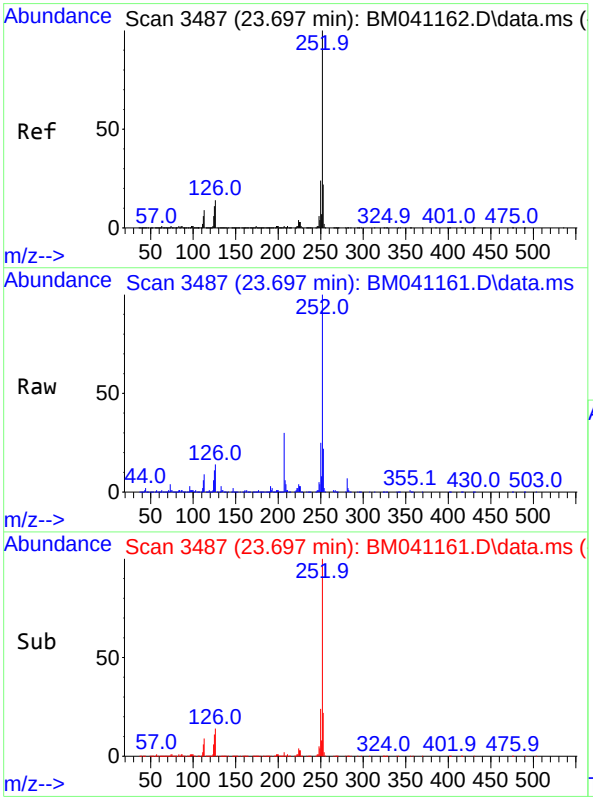
Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.4	26.0
125	10.1	7.6	11.4



Instrument :
BNA_M
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

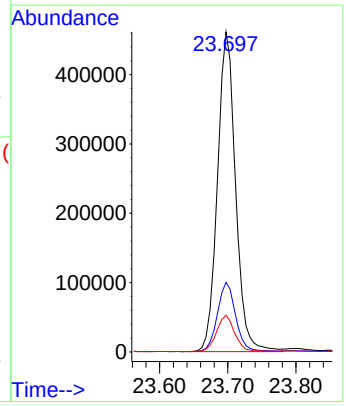
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

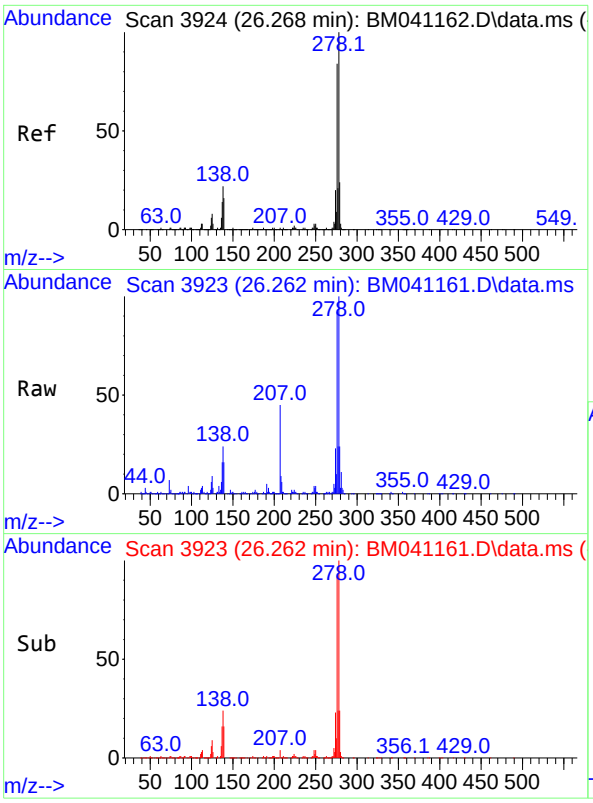


#90
Benzo(a)pyrene
Concen: 20.130 ng
RT: 23.697 min Scan# 3487
Delta R.T. -0.000 min
Lab File: BM041161.D
Acq: 28 Jul 2023 12:06

Tgt Ion:252 Resp: 854008

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.3	25.9
125	11.4	9.0	13.4

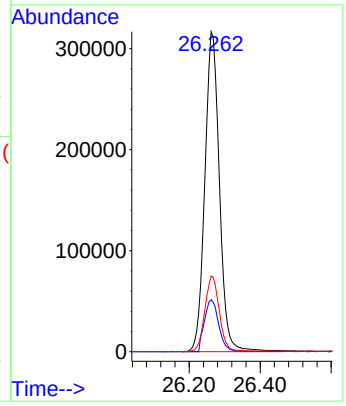




#91
Dibenzo(a,h)anthracene
Concen: 19.918 ng
RT: 26.262 min Scan# 3
Delta R.T. -0.006 min
Lab File: BM041161.D
Acq: 28 Jul 2023 12:06

Tgt Ion:278 Resp: 90781

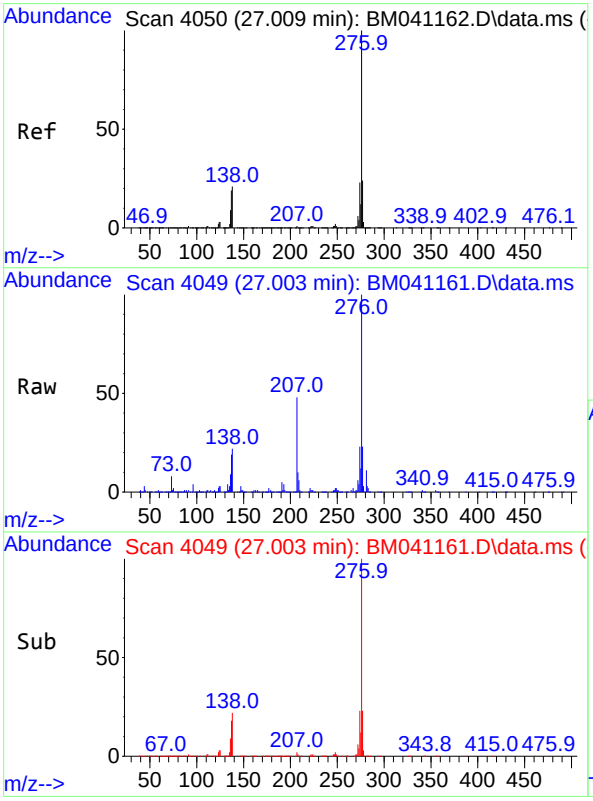
Ion	Ratio	Lower	Upper
278	100		
139	16.3	12.7	19.1
279	23.7	19.1	28.7



Instrument :
BNA_M
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

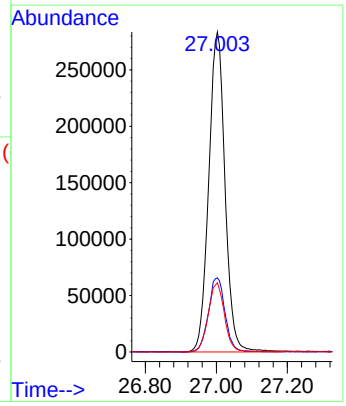
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023



#92
Benzo(g,h,i)perylene
Concen: 20.322 ng
RT: 27.003 min Scan# 4049
Delta R.T. -0.006 min
Lab File: BM041161.D
Acq: 28 Jul 2023 12:06

Tgt Ion:276 Resp: 906297

Ion	Ratio	Lower	Upper
276	100		
277	23.1	19.1	28.7
138	21.6	17.1	25.7



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM072823\
Data File : BM041162.D
Acq On : 28 Jul 2023 12:44
Operator : MA/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 29 00:07:52 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 28 23:54:24 2023
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.804	152	195180	20.000	ng	0.00
21) Naphthalene-d8	10.616	136	706103	20.000	ng	0.00
39) Acenaphthene-d10	14.474	164	380278	20.000	ng	0.00
64) Phenanthrene-d10	17.227	188	753520	20.000	ng	0.00
76) Chrysene-d12	21.433	240	710612	20.000	ng	0.00
86) Perylene-d12	23.803	264	769838	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.369	112	1062173	81.336	ng	0.00
7) Phenol-d6	6.981	99	1367657	80.794	ng	0.00
23) Nitrobenzene-d5	8.981	82	1249226	82.275	ng	0.00
42) 2,4,6-Tribromophenol	15.974	330	443630	82.477	ng	0.00
45) 2-Fluorobiphenyl	13.092	172	2466726	81.942	ng	0.00
79) Terphenyl-d14	19.868	244	3256371	82.854	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.269	88	223226	39.958	ng	100
3) Pyridine	3.675	79	611018m	41.727	ng	
4) n-Nitrosodimethylamine	3.587	42	275075	40.490	ng	100
6) Aniline	7.140	93	804321	40.601	ng	100
8) 2-Chlorophenol	7.369	128	512565	40.205	ng	100
9) Benzaldehyde	6.957	77	344835	38.565	ng	100
10) Phenol	7.010	94	657384	40.208	ng	100
11) bis(2-Chloroethyl)ether	7.240	93	533276	40.295	ng	100
12) 1,3-Dichlorobenzene	7.692	146	552628	39.822	ng	100
13) 1,4-Dichlorobenzene	7.840	146	553385	39.673	ng	100
14) 1,2-Dichlorobenzene	8.157	146	532245	39.797	ng	100
15) Benzyl Alcohol	8.063	79	433055	40.510	ng	100
16) 2,2'-oxybis(1-Chloropr...	8.351	45	705376	40.003	ng	100
17) 2-Methylphenol	8.263	107	454764	40.714	ng	100
18) Hexachloroethane	8.875	117	212415	40.905	ng	100
19) n-Nitroso-di-n-propyla...	8.628	70	422176	41.060	ng	100
20) 3+4-Methylphenols	8.592	107	609855	40.835	ng	100
22) Acetophenone	8.645	105	760642	40.675	ng	100
24) Nitrobenzene	9.028	77	629967	41.027	ng	100
25) Isophorone	9.551	82	1062452	41.221	ng	100
26) 2-Nitrophenol	9.734	139	253669	42.260	ng	100
27) 2,4-Dimethylphenol	9.798	122	436927	41.366	ng	100
28) bis(2-Chloroethoxy)met...	10.039	93	662770	41.051	ng	100
29) 2,4-Dichlorophenol	10.269	162	442315	41.525	ng	100
30) 1,2,4-Trichlorobenzene	10.475	180	474462	40.316	ng	100
31) Naphthalene	10.663	128	1537951	40.137	ng	100
32) Benzoic acid	9.957	122	288923	38.147	ng	100
33) 4-Chloroaniline	10.792	127	629438	41.105	ng	100
34) Hexachlorobutadiene	10.939	225	288679	40.786	ng	100
35) Caprolactam	11.598	113	125304	40.665	ng	100
36) 4-Chloro-3-methylphenol	11.922	107	460343	41.061	ng	100
37) 2-Methylnaphthalene	12.280	142	1041130	40.303	ng	100
38) 1-Methylnaphthalene	12.504	142	973175	40.251	ng	100
40) 1,2,4,5-Tetrachloroben...	12.651	216	502776	40.717	ng	100
41) Hexachlorocyclopentadiene	12.622	237	274749	42.058	ng	100
43) 2,4,6-Trichlorophenol	12.898	196	330009	41.697	ng	100

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM072823\
Data File : BM041162.D
Acq On : 28 Jul 2023 12:44
Operator : MA/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 29 00:07:52 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 28 23:54:24 2023
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.974	196	377946	41.259	ng	100
46) 1,1'-Biphenyl	13.304	154	1253634	40.665	ng	100
47) 2-Chloronaphthalene	13.345	162	935462	40.639	ng	100
48) 2-Nitroaniline	13.569	65	315415	42.927	ng	100
49) Acenaphthylene	14.192	152	1534782	41.308	ng	100
50) Dimethylphthalate	13.939	163	1158723	40.508	ng	100
51) 2,6-Dinitrotoluene	14.069	165	247456	41.751	ng	100
52) Acenaphthene	14.539	154	907597	40.549	ng	100
53) 3-Nitroaniline	14.398	138	269453	39.755	ng	100
54) 2,4-Dinitrophenol	14.610	184	141918	38.706	ng	100
55) Dibenzofuran	14.874	168	1472151	40.312	ng	100
56) 4-Nitrophenol	14.710	139	204860	41.472	ng	100
57) 2,4-Dinitrotoluene	14.857	165	327291	39.187	ng	100
58) Fluorene	15.527	166	1166240	40.482	ng	100
59) 2,3,4,6-Tetrachlorophenol	15.104	232	302064	40.722	ng	100
60) Diethylphthalate	15.304	149	1125765	40.696	ng	100
61) 4-Chlorophenyl-phenyle...	15.521	204	589714	40.849	ng	100
62) 4-Nitroaniline	15.568	138	238374	38.598	ng	100
63) Azobenzene	15.815	77	1267161	41.819	ng	100
65) 4,6-Dinitro-2-methylph...	15.621	198	192109	42.085	ng	100
66) n-Nitrosodiphenylamine	15.739	169	969901	41.387	ng	100
67) 4-Bromophenyl-phenylether	16.421	248	339249	41.063	ng	100
68) Hexachlorobenzene	16.527	284	371831	40.475	ng	100
69) Atrazine	16.704	200	255336	41.489	ng	100
70) Pentachlorophenol	16.880	266	270743	42.560	ng	100
71) Phenanthrene	17.274	178	1697461	40.545	ng	100
72) Anthracene	17.362	178	1721602	41.578	ng	100
73) Carbazole	17.645	167	1566076	41.788	ng	100
74) Di-n-butylphthalate	18.204	149	1802744	42.569	ng	100
75) Fluoranthene	19.298	202	1937161	41.185	ng	100
77) Benzidine	19.498	184	471036	48.411	ng	100
78) Pyrene	19.662	202	2035514	40.961	ng	100
80) Butylbenzylphthalate	20.568	149	781567	43.068	ng	100
81) Benzo(a)anthracene	21.415	228	1975061	40.999	ng	100
82) 3,3'-Dichlorobenzidine	21.356	252	676072	43.008	ng	100
83) Chrysene	21.468	228	1878678	40.319	ng	100
84) Bis(2-ethylhexyl)phtha...	21.339	149	1128615	39.630	ng	100
85) Di-n-octyl phthalate	22.262	149	1897819	41.379	ng	100
87) Indeno(1,2,3-cd)pyrene	26.256	276	2339377	41.332	ng	100
88) Benzo(b)fluoranthene	23.080	252	1864086	40.760	ng	100
89) Benzo(k)fluoranthene	23.133	252	1987306	42.481	ng	100
90) Benzo(a)pyrene	23.697	252	1830554	41.657	ng	100
91) Dibenzo(a,h)anthracene	26.268	278	1948690	41.278	ng	100
92) Benzo(g,h,i)perylene	27.009	276	1899260	41.116	ng	100

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

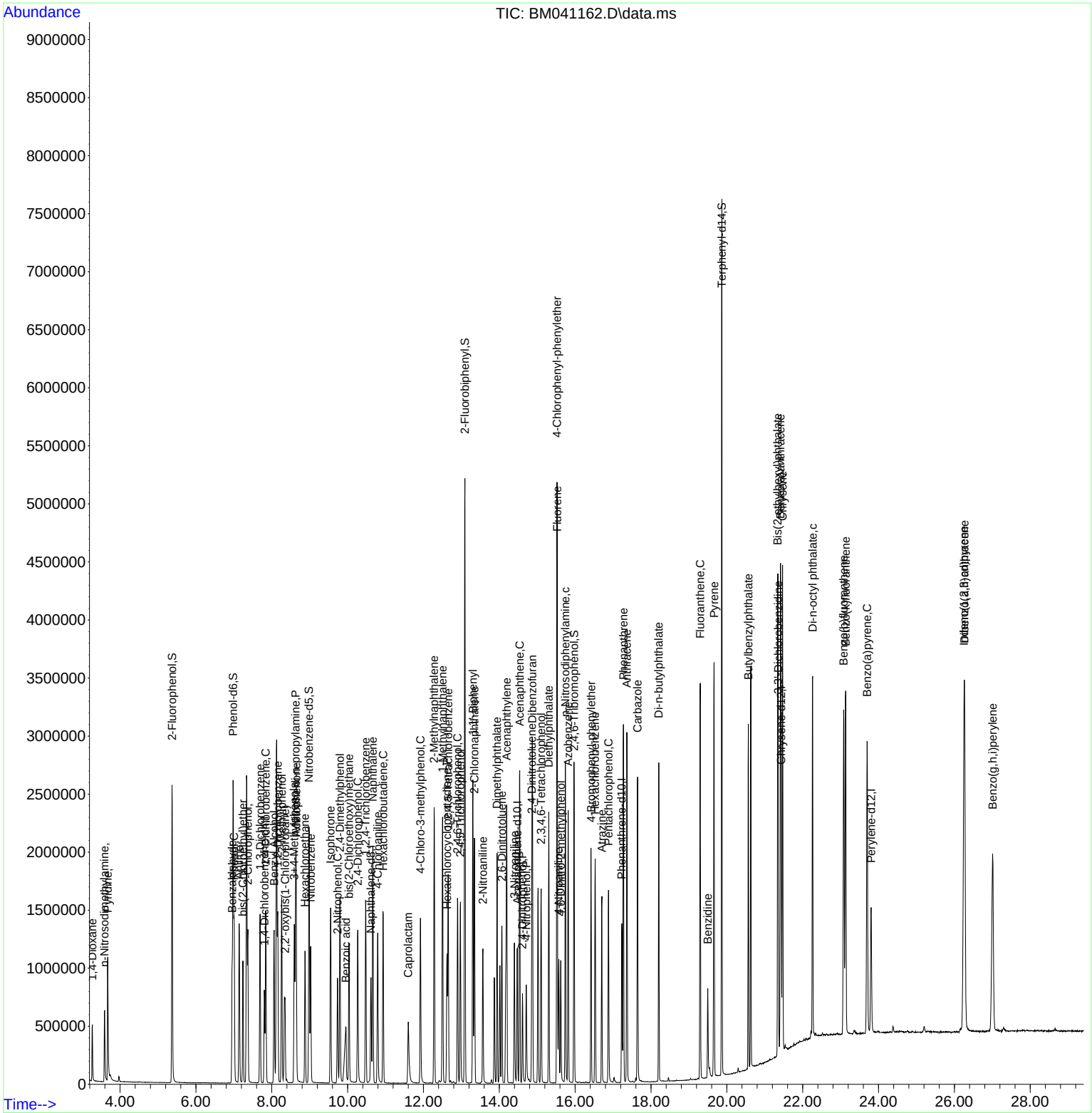
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM072823\
Data File : BM041162.D
Acq On : 28 Jul 2023 12:44
Operator : MA/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 6 Sample Multiplier: 1

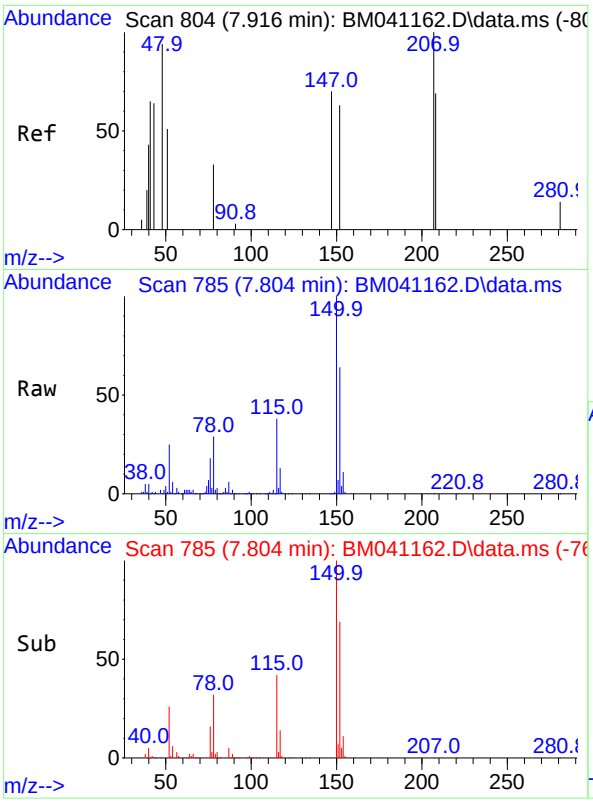
Quant Time: Jul 29 00:07:52 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 28 23:54:24 2023
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

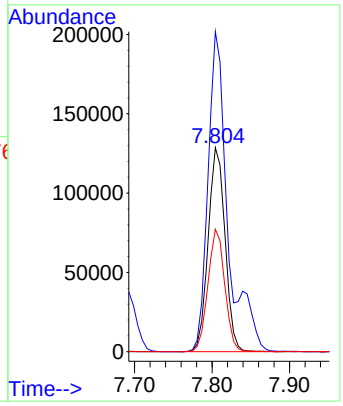




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.804 min Scan# 7
Delta R.T. 0.000 min
Lab File: BM041162.D
Acq: 28 Jul 2023 12:44

Tgt Ion:152 Resp: 19518

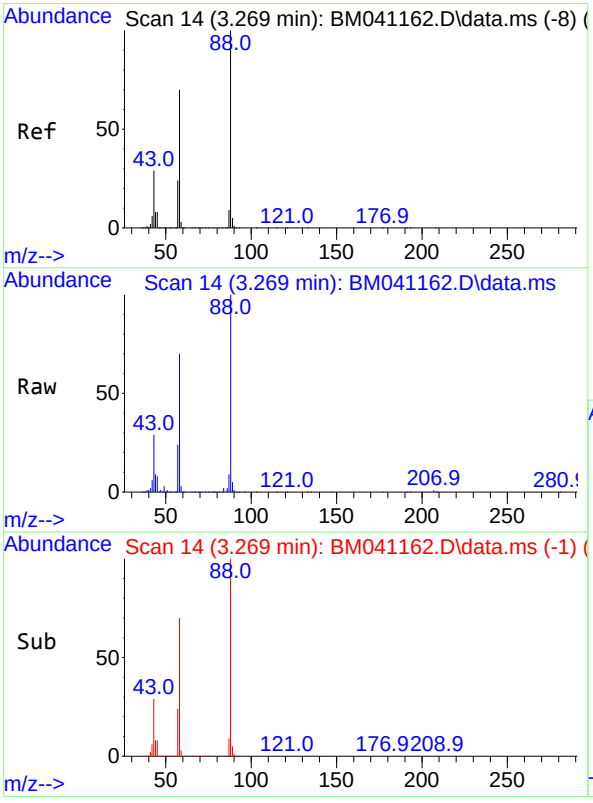
Ion	Ratio	Lower	Upper
152	100		
150	156.9	125.5	188.3
115	60.0	48.0	72.0



Instrument :
BNA_M
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

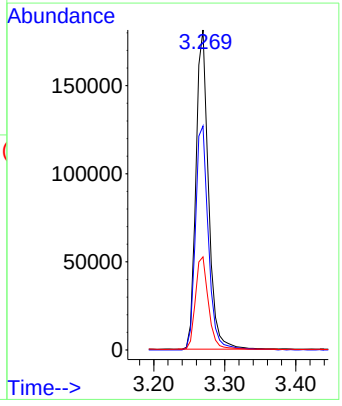
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

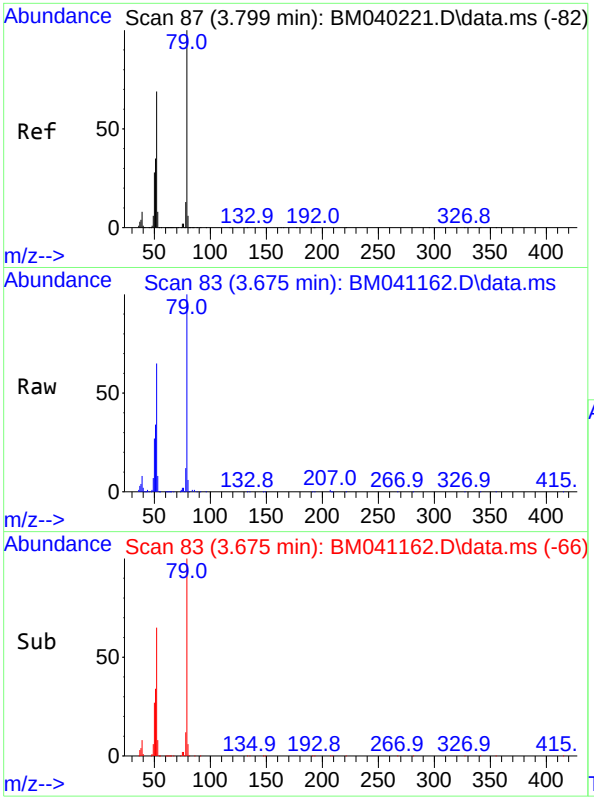


#2
1,4-Dioxane
Concen: 39.958 ng
RT: 3.269 min Scan# 14
Delta R.T. 0.000 min
Lab File: BM041162.D
Acq: 28 Jul 2023 12:44

Tgt Ion: 88 Resp: 223226

Ion	Ratio	Lower	Upper
88	100		
58	72.8	58.2	87.4
43	30.5	24.4	36.6

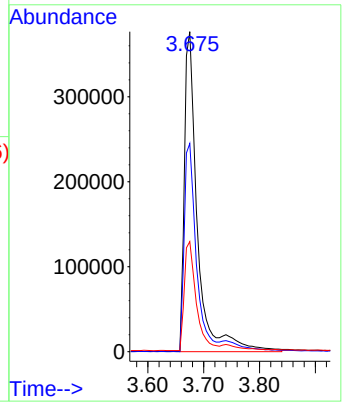




#3
Pyridine
Concen: 41.727 ng m
RT: 3.675 min Scan# 8
Delta R.T. 0.000 min
Lab File: BM041162.D
Acq: 28 Jul 2023 12:44

Tgt Ion: 79 Resp: 61101

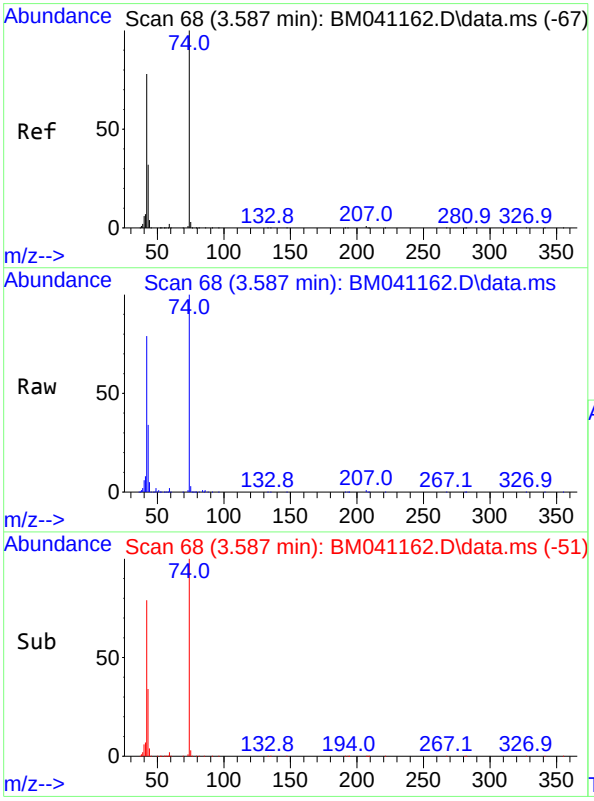
Ion	Ratio	Lower	Upper
79	100		
52	65.1	52.1	78.1
51	34.4	27.5	41.3



Instrument :
BNA_M
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

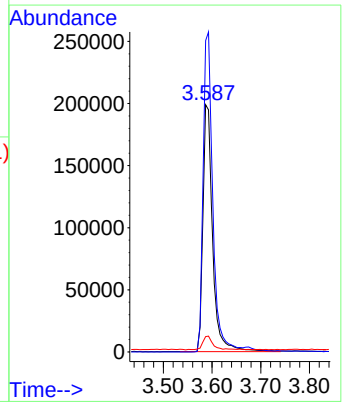
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

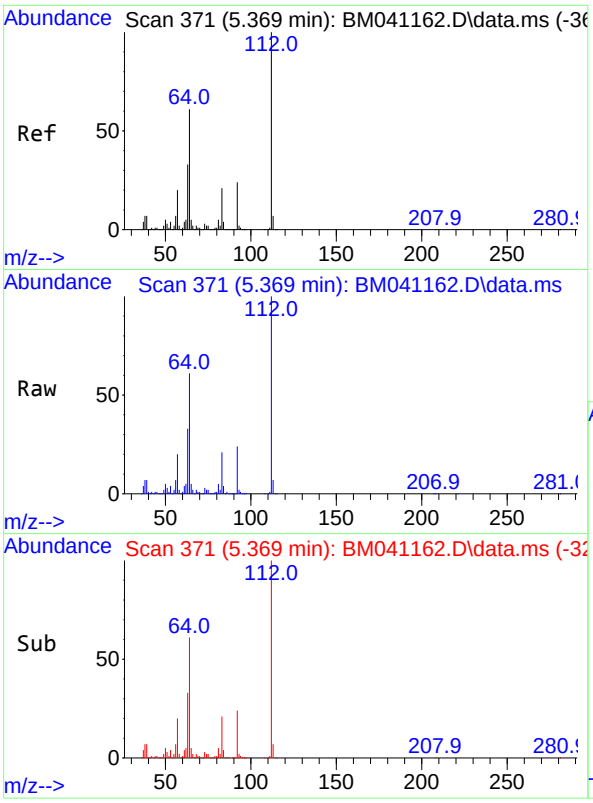


#4
n-Nitrosodimethylamine
Concen: 40.490 ng
RT: 3.587 min Scan# 68
Delta R.T. 0.000 min
Lab File: BM041162.D
Acq: 28 Jul 2023 12:44

Tgt Ion: 42 Resp: 275075

Ion	Ratio	Lower	Upper
42	100		
74	126.0	100.8	151.2
44	6.2	5.0	7.4





#5
2-Fluorophenol
Concen: 81.336 ng
RT: 5.369 min Scan# 3
Delta R.T. 0.000 min
Lab File: BM041162.D
Acq: 28 Jul 2023 12:44

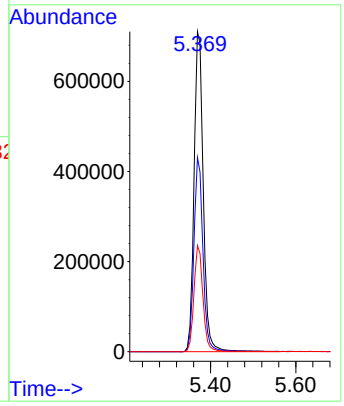
Tgt Ion:112 Resp: 106217

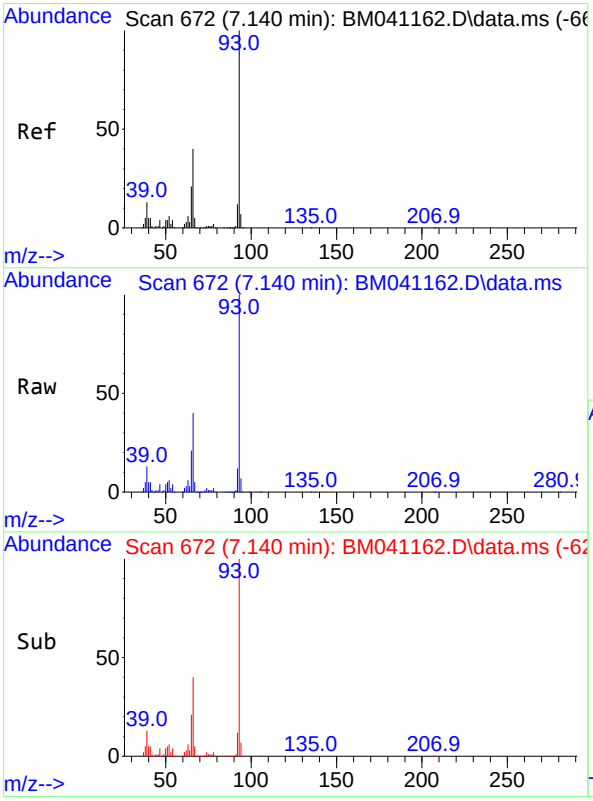
Ion	Ratio	Lower	Upper
112	100		
64	60.6	48.5	72.7
63	33.1	26.5	39.7

Instrument :
BNA_M
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

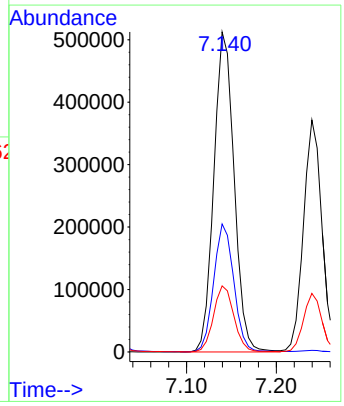


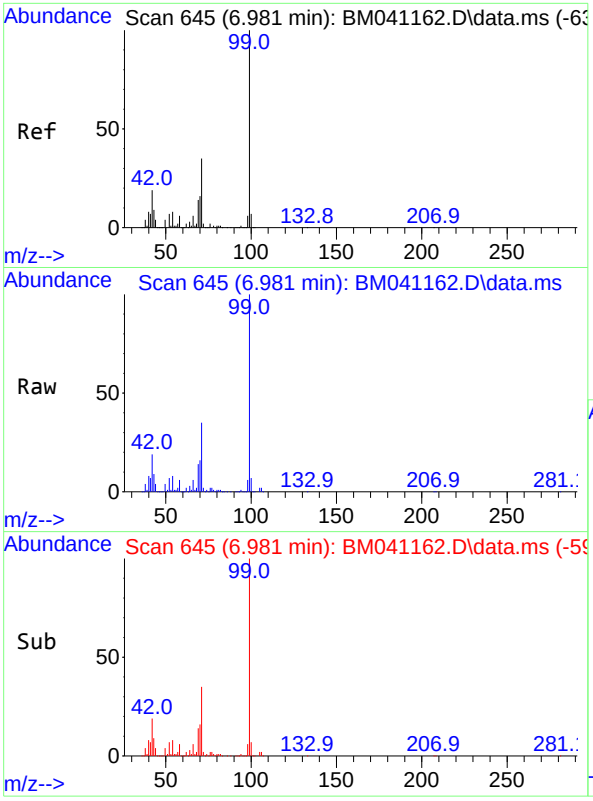


#6
Aniline
Concen: 40.601 ng
RT: 7.140 min Scan# 672
Delta R.T. 0.000 min
Lab File: BM041162.D
Acq: 28 Jul 2023 12:44

Tgt Ion: 93 Resp: 804321

Ion	Ratio	Lower	Upper
93	100		
66	40.0	32.0	48.0
65	20.7	16.6	24.8

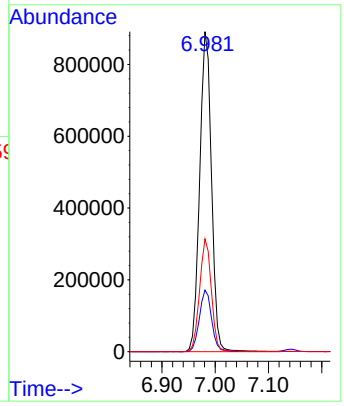




#7
Phenol-d6
Concen: 80.794 ng
RT: 6.981 min Scan# 64
Delta R.T. 0.000 min
Lab File: BM041162.D
Acq: 28 Jul 2023 12:44

Tgt Ion: 99 Resp: 136765

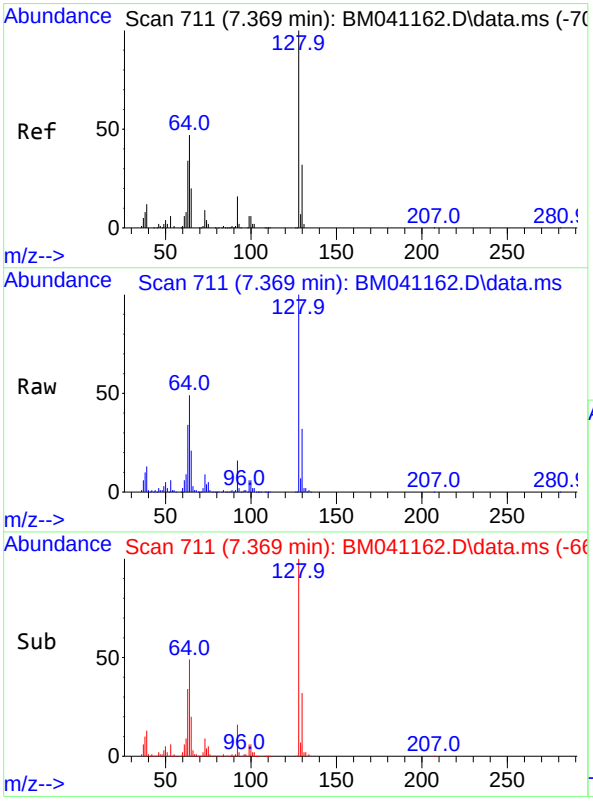
Ion	Ratio	Lower	Upper
99	100		
42	19.2	15.4	23.0
71	35.3	28.2	42.4



Instrument :
BNA_M
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

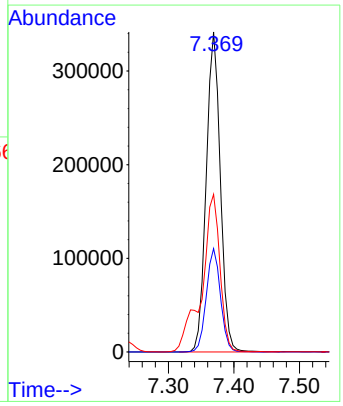
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

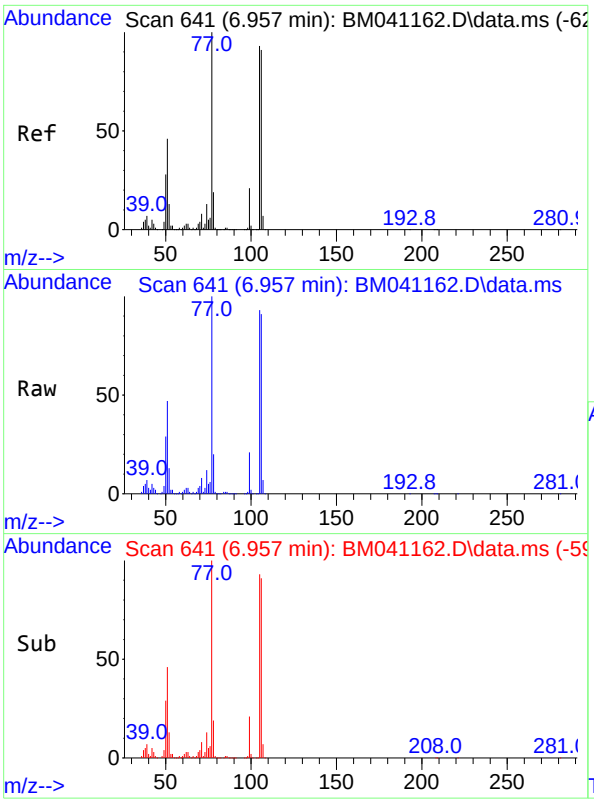


#8
2-Chlorophenol
Concen: 40.205 ng
RT: 7.369 min Scan# 711
Delta R.T. 0.000 min
Lab File: BM041162.D
Acq: 28 Jul 2023 12:44

Tgt Ion:128 Resp: 512565

Ion	Ratio	Lower	Upper
128	100		
130	32.3	12.3	52.3
64	49.3	29.3	69.3

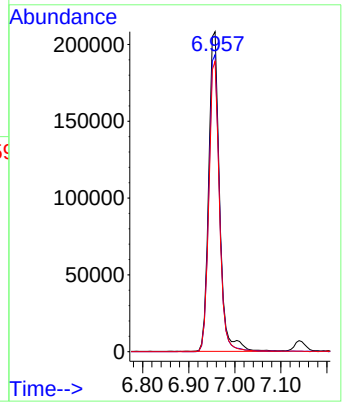




#9
Benzaldehyde
Concen: 38.565 ng
RT: 6.957 min Scan# 64
Delta R.T. 0.000 min
Lab File: BM041162.D
Acq: 28 Jul 2023 12:44

Tgt Ion: 77 Resp: 34483

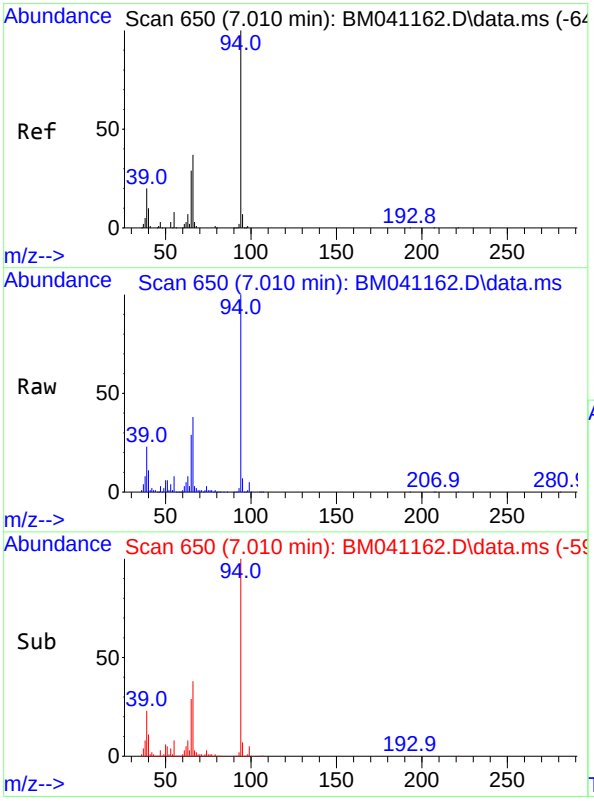
Ion	Ratio	Lower	Upper
77	100		
105	92.8	72.8	112.8
106	90.8	70.8	110.8



Instrument :
BNA_M
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

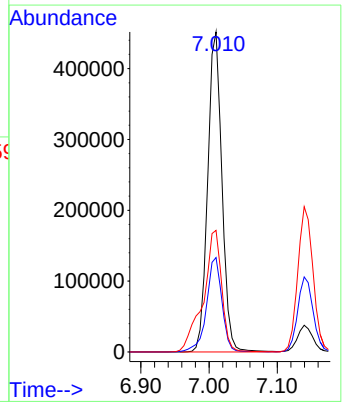
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

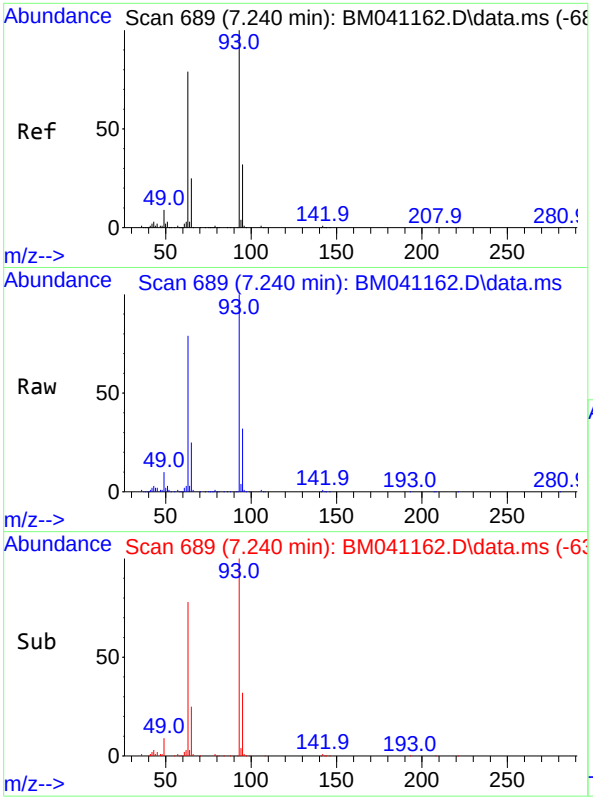


#10
Phenol
Concen: 40.208 ng
RT: 7.010 min Scan# 650
Delta R.T. 0.000 min
Lab File: BM041162.D
Acq: 28 Jul 2023 12:44

Tgt Ion: 94 Resp: 657384

Ion	Ratio	Lower	Upper
94	100		
65	29.5	9.5	49.5
66	38.0	18.0	58.0

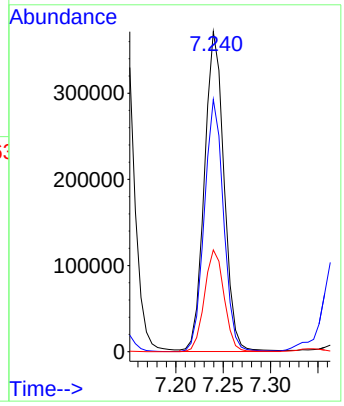




#11
bis(2-Chloroethyl)ether
Concen: 40.295 ng
RT: 7.240 min Scan# 6
Delta R.T. 0.000 min
Lab File: BM041162.D
Acq: 28 Jul 2023 12:44

Tgt Ion: 93 Resp: 53327

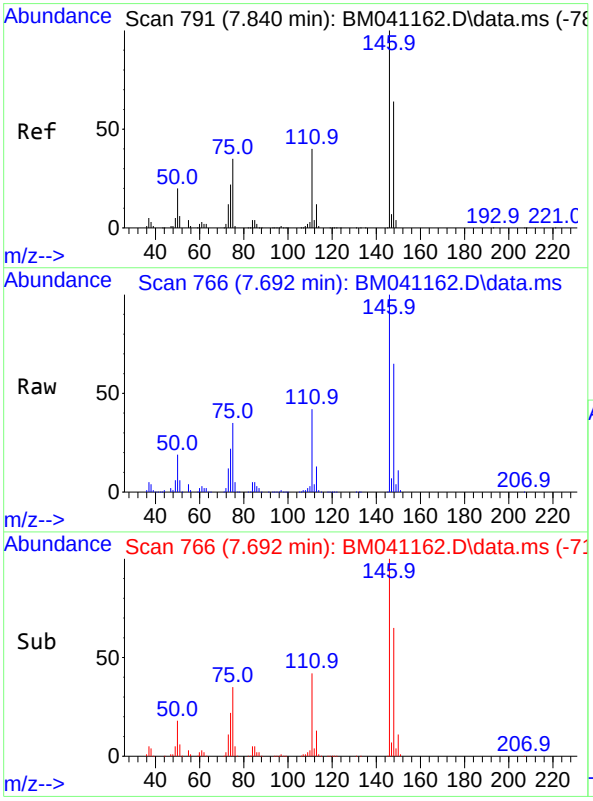
Ion	Ratio	Lower	Upper
93	100		
63	78.8	58.8	98.8
95	31.8	11.8	51.8



Instrument :
BNA_M
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

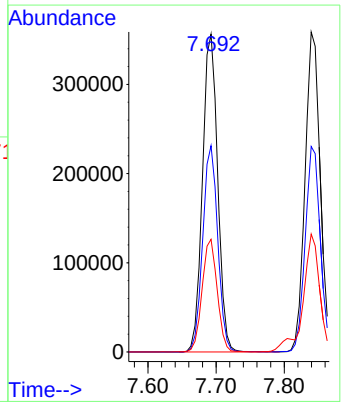
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

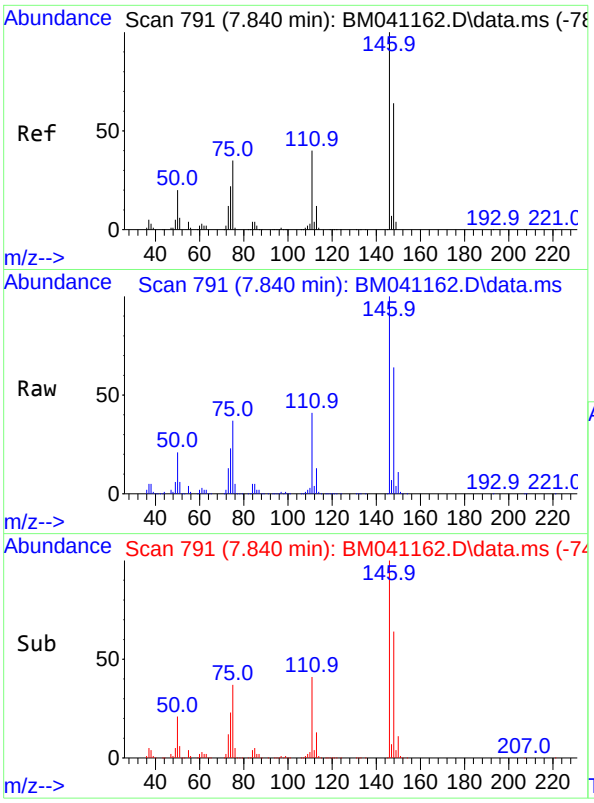


#12
1,3-Dichlorobenzene
Concen: 39.822 ng
RT: 7.692 min Scan# 766
Delta R.T. 0.000 min
Lab File: BM041162.D
Acq: 28 Jul 2023 12:44

Tgt Ion:146 Resp: 552628

Ion	Ratio	Lower	Upper
146	100		
148	64.9	51.9	77.9
75	35.4	28.3	42.5

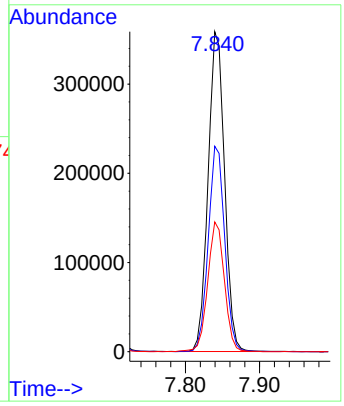




#13
1,4-Dichlorobenzene
Concen: 39.673 ng
RT: 7.840 min Scan# 7
Delta R.T. 0.000 min
Lab File: BM041162.D
Acq: 28 Jul 2023 12:44

Tgt Ion:146 Resp: 55338

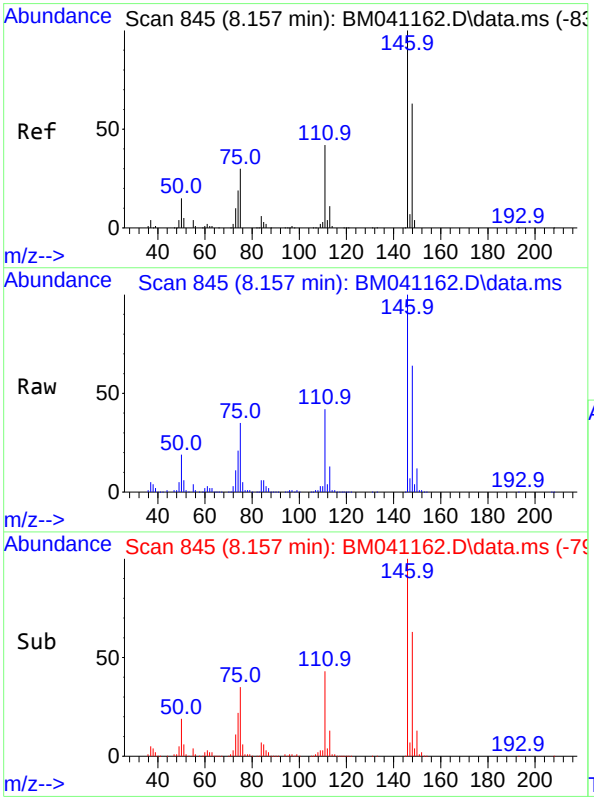
Ion	Ratio	Lower	Upper
146	100		
148	64.2	51.4	77.0
111	40.5	32.4	48.6



Instrument :
BNA_M
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

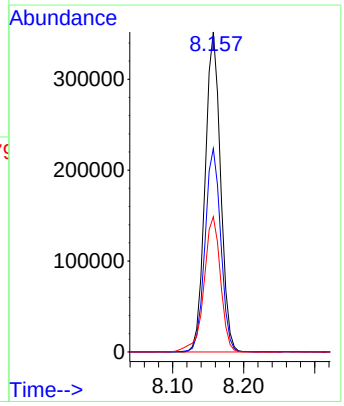
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

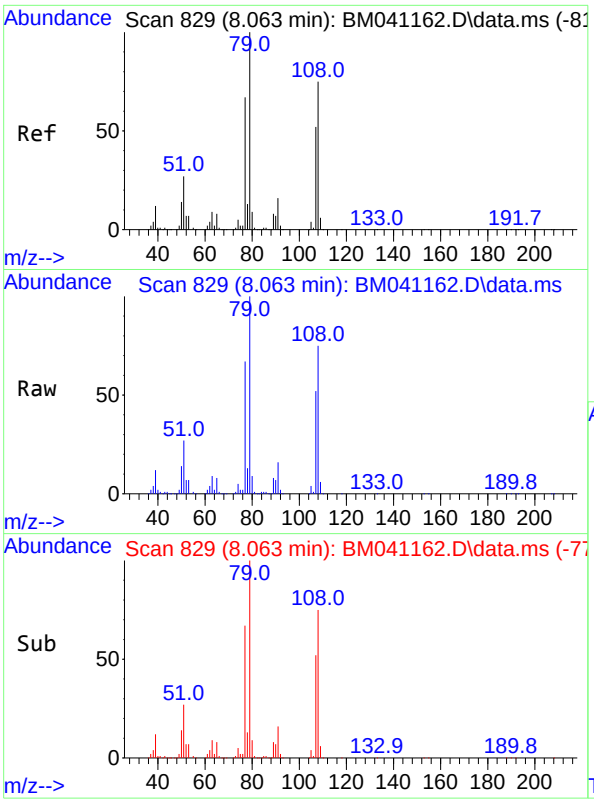


#14
1,2-Dichlorobenzene
Concen: 39.797 ng
RT: 8.157 min Scan# 845
Delta R.T. 0.000 min
Lab File: BM041162.D
Acq: 28 Jul 2023 12:44

Tgt Ion:146 Resp: 532245

Ion	Ratio	Lower	Upper
146	100		
148	63.6	50.9	76.3
111	42.2	33.8	50.6

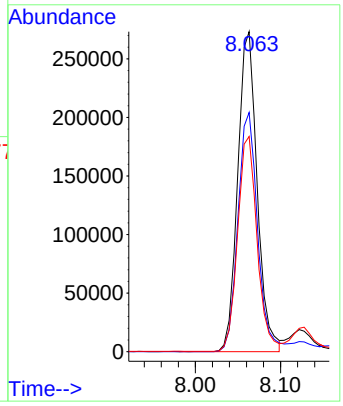




#15
Benzyl Alcohol
Concen: 40.510 ng
RT: 8.063 min Scan# 8
Delta R.T. 0.000 min
Lab File: BM041162.D
Acq: 28 Jul 2023 12:44

Tgt Ion: 79 Resp: 43305

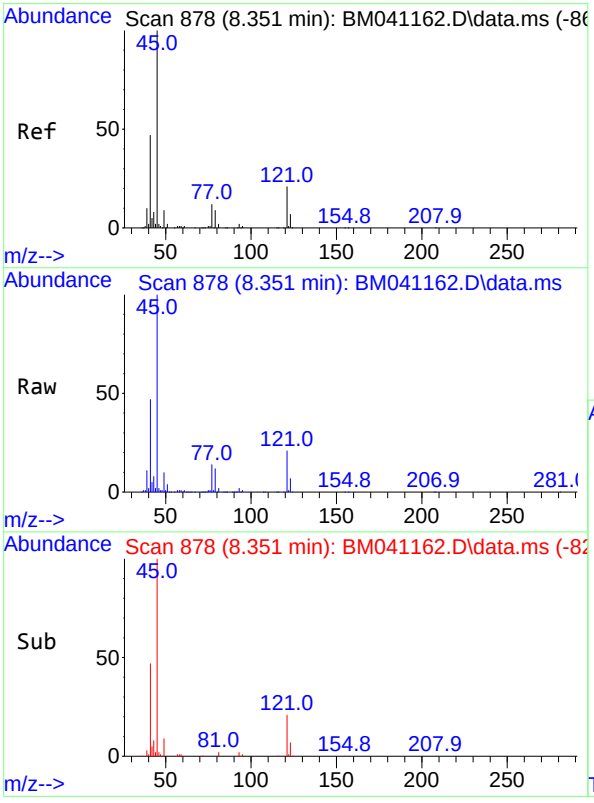
Ion	Ratio	Lower	Upper
79	100		
108	74.8	59.8	89.8
77	67.2	53.8	80.6



Instrument :
BNA_M
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

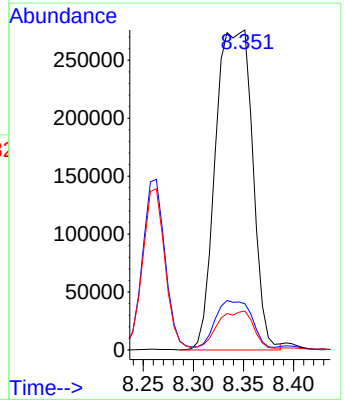
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

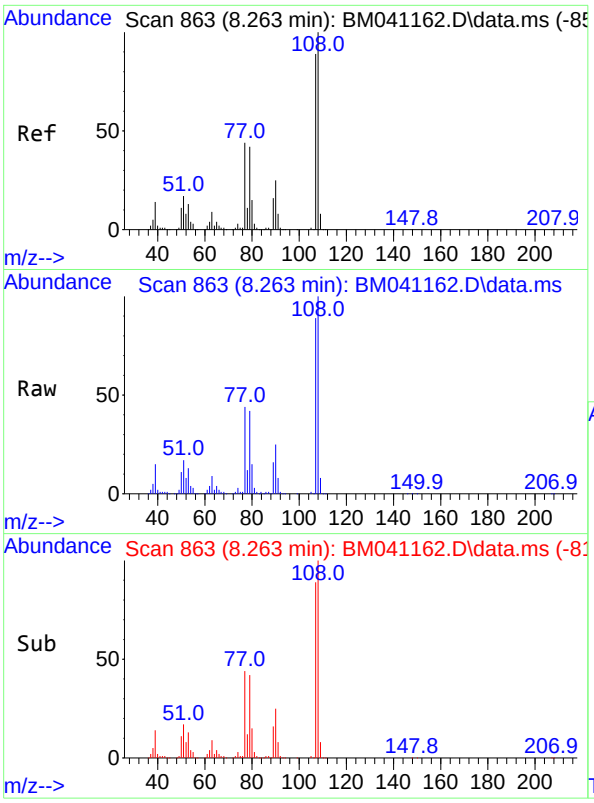


#16
2,2'-oxybis(1-Chloropropane)
Concen: 40.003 ng
RT: 8.351 min Scan# 878
Delta R.T. 0.000 min
Lab File: BM041162.D
Acq: 28 Jul 2023 12:44

Tgt Ion: 45 Resp: 705376

Ion	Ratio	Lower	Upper
45	100		
77	14.5	0.0	34.5
79	12.1	0.0	32.1

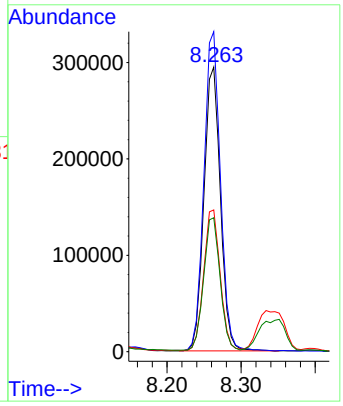




#17
2-Methylphenol
Concen: 40.714 ng
RT: 8.263 min Scan# 8
Delta R.T. 0.000 min
Lab File: BM041162.D
Acq: 28 Jul 2023 12:44

Tgt Ion:107 Resp: 45476

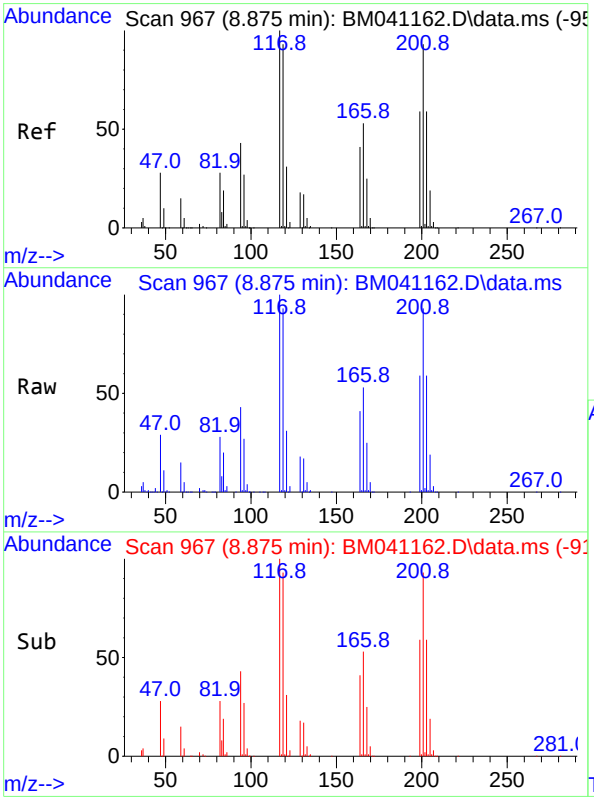
Ion	Ratio	Lower	Upper
107	100		
108	112.4	89.9	134.9
77	49.8	39.8	59.8
79	47.1	37.7	56.5



Instrument :
BNA_M
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

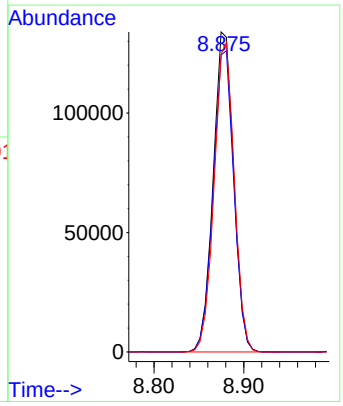
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

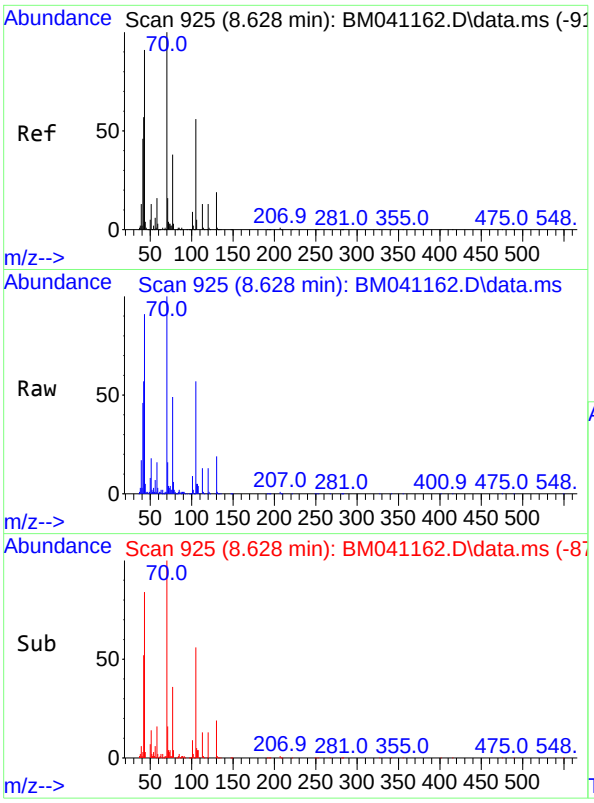


#18
Hexachloroethane
Concen: 40.905 ng
RT: 8.875 min Scan# 967
Delta R.T. 0.000 min
Lab File: BM041162.D
Acq: 28 Jul 2023 12:44

Tgt Ion:117 Resp: 212415

Ion	Ratio	Lower	Upper
117	100		
119	92.8	74.2	111.4
201	93.1	74.5	111.7

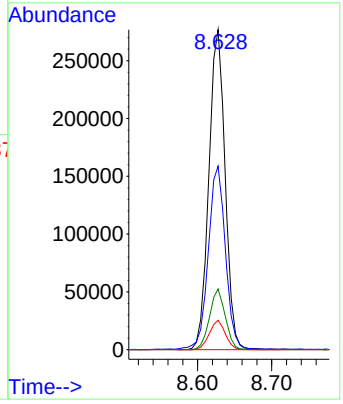




#19
n-Nitroso-di-n-propylamine
Concen: 41.060 ng
RT: 8.628 min Scan# 9
Delta R.T. 0.000 min
Lab File: BM041162.D
Acq: 28 Jul 2023 12:44

Tgt Ion: 70 Resp: 42217

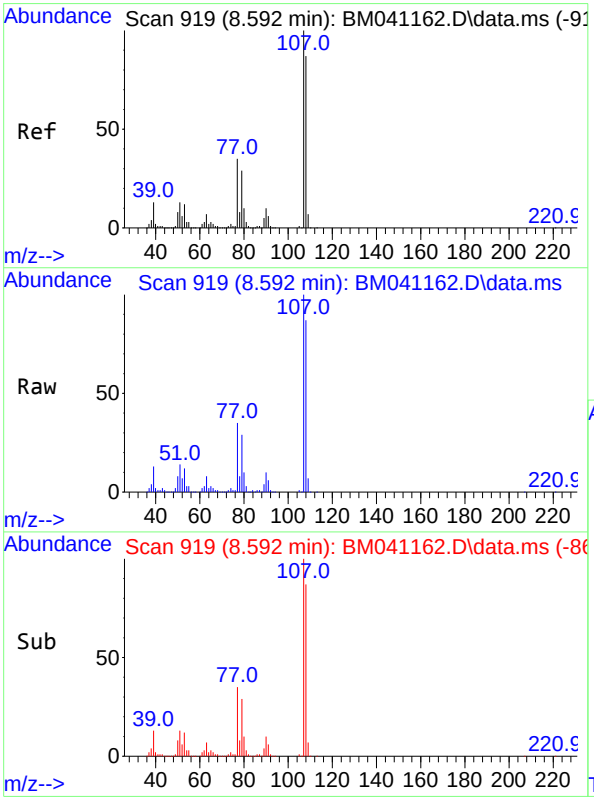
Ion	Ratio	Lower	Upper
70	100		
42	57.3	45.8	68.8
101	9.2	7.4	11.0
130	19.0	15.2	22.8



Instrument :
BNA_M
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

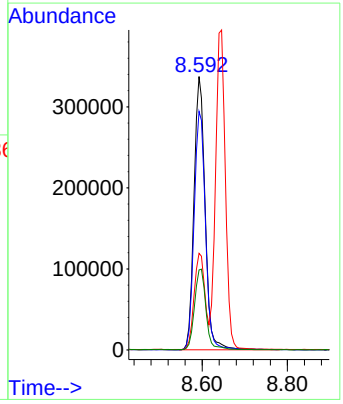
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

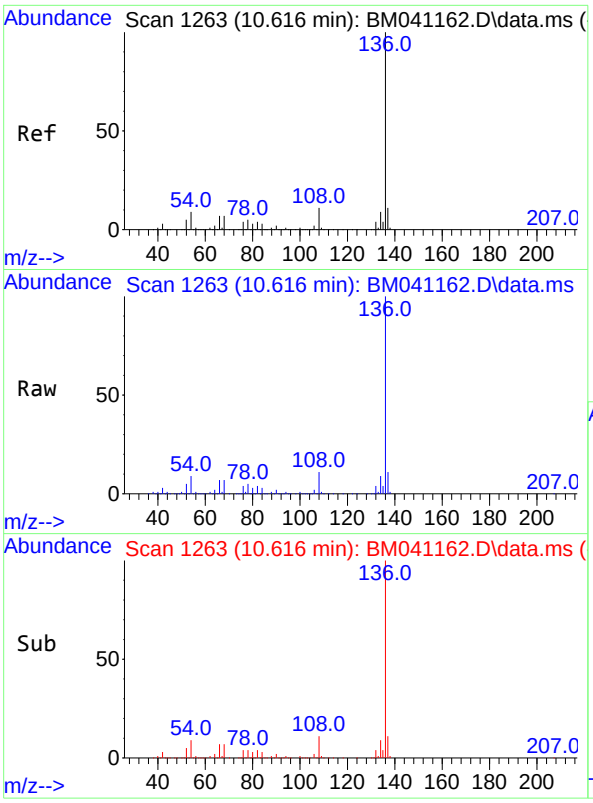


#20
3+4-Methylphenols
Concen: 40.835 ng
RT: 8.592 min Scan# 919
Delta R.T. 0.000 min
Lab File: BM041162.D
Acq: 28 Jul 2023 12:44

Tgt Ion:107 Resp: 609855

Ion	Ratio	Lower	Upper
107	100		
108	87.2	67.2	107.2
77	35.4	15.4	55.4
79	29.2	9.2	49.2

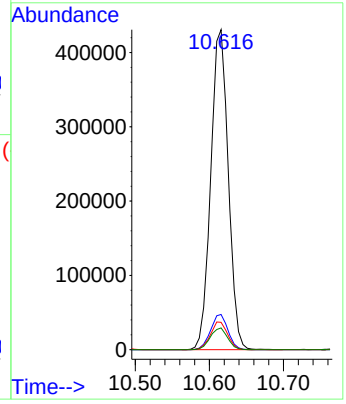




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.616 min Scan# 1
Delta R.T. -0.000 min
Lab File: BM041162.D
Acq: 28 Jul 2023 12:44

Tgt Ion:136 Resp: 70610

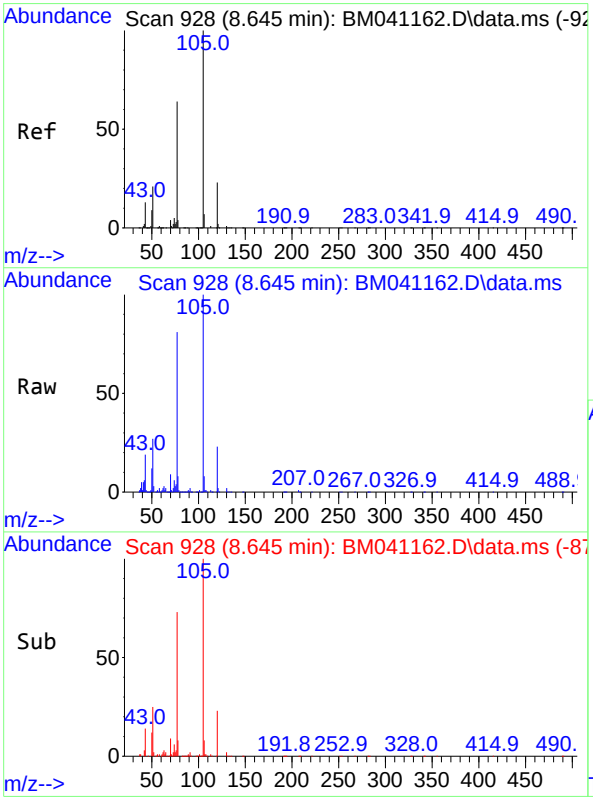
Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.8	13.2
54	8.6	6.9	10.3
68	6.8	5.4	8.2



Instrument :
BNA_M
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

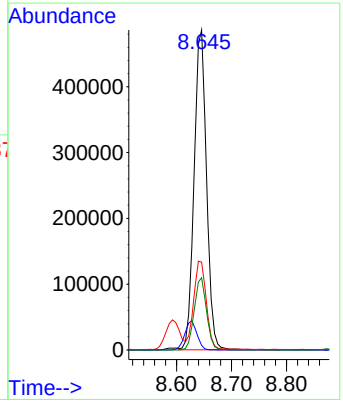
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

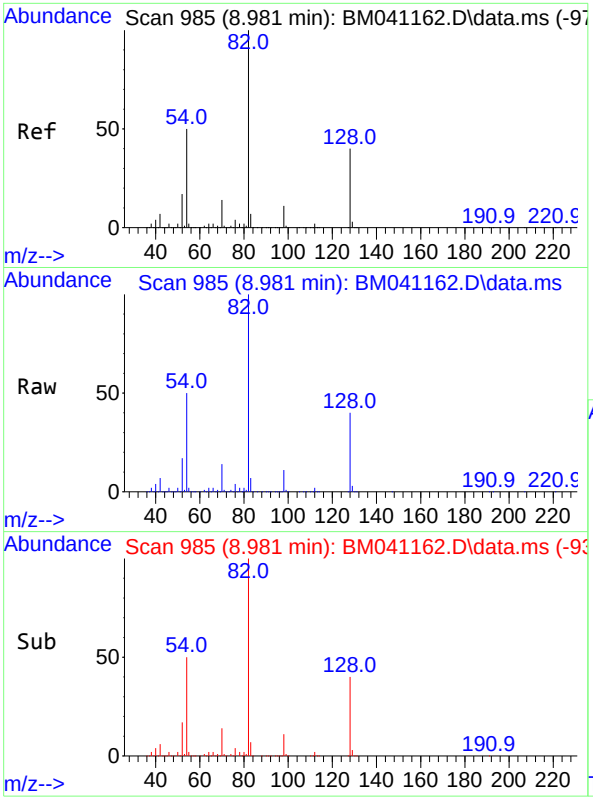


#22
Acetophenone
Concen: 40.675 ng
RT: 8.645 min Scan# 928
Delta R.T. 0.000 min
Lab File: BM041162.D
Acq: 28 Jul 2023 12:44

Tgt Ion:105 Resp: 760642

Ion	Ratio	Lower	Upper
105	100		
71	1.5	1.2	1.8
51	27.5	22.0	33.0
120	22.5	18.0	27.0

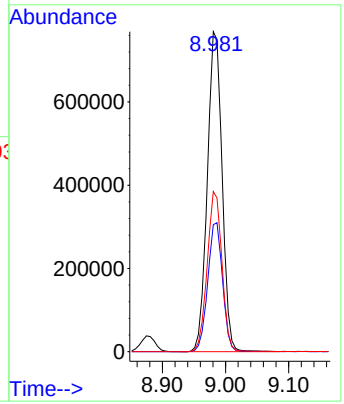




#23
Nitrobenzene-d5
Concen: 82.275 ng
RT: 8.981 min Scan# 9
Delta R.T. 0.000 min
Lab File: BM041162.D
Acq: 28 Jul 2023 12:44

Tgt Ion: 82 Resp: 124922

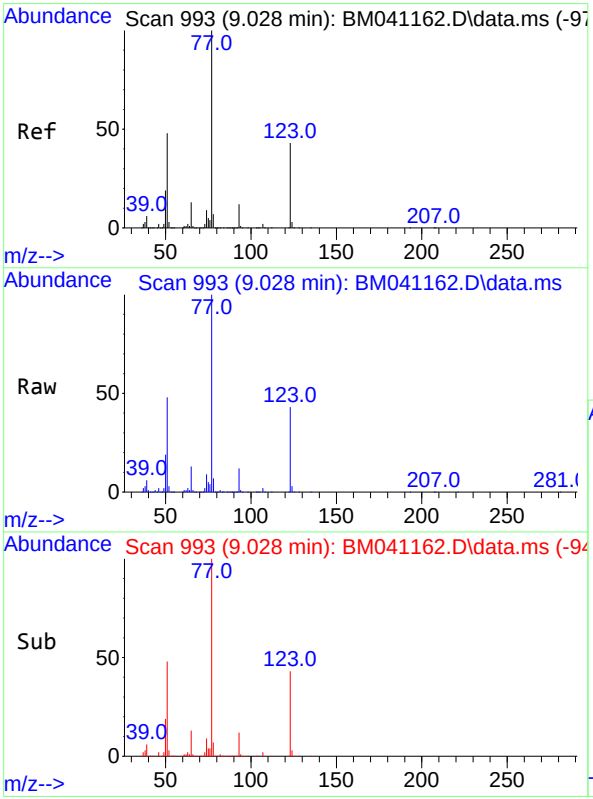
Ion	Ratio	Lower	Upper
82	100		
128	39.7	31.8	47.6
54	50.1	40.1	60.1



Instrument :
BNA_M
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

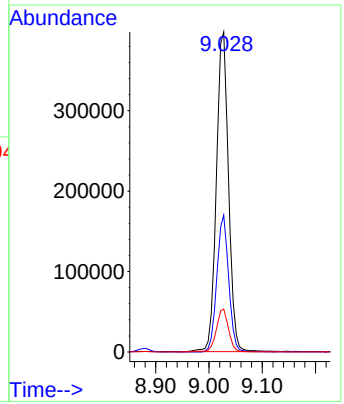
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

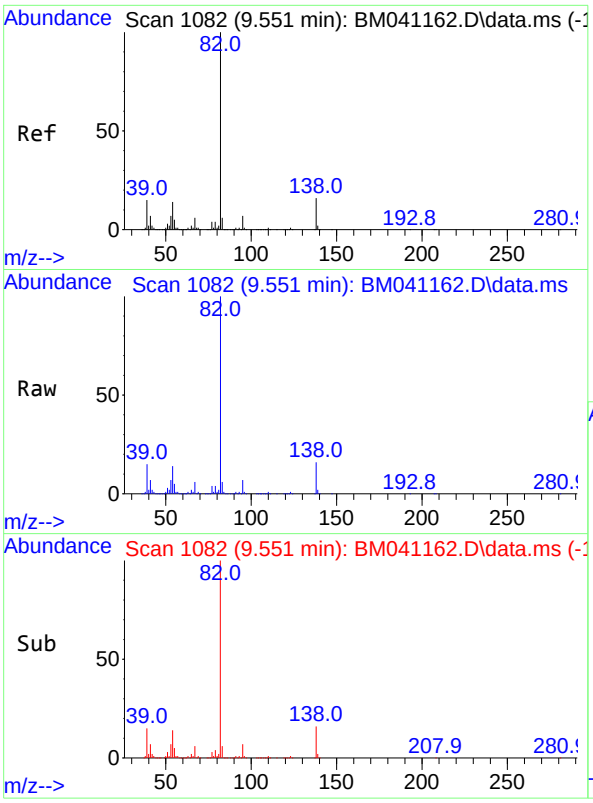


#24
Nitrobenzene
Concen: 41.027 ng
RT: 9.028 min Scan# 993
Delta R.T. 0.000 min
Lab File: BM041162.D
Acq: 28 Jul 2023 12:44

Tgt Ion: 77 Resp: 629967

Ion	Ratio	Lower	Upper
77	100		
123	42.7	34.2	51.2
65	13.4	10.7	16.1

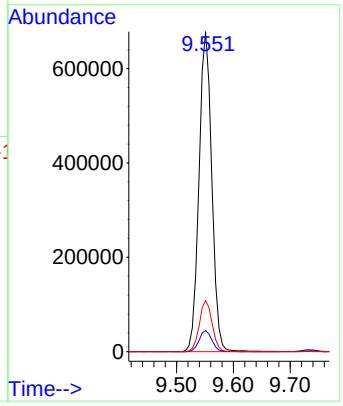




#25
Isophorone
Concen: 41.221 ng
RT: 9.551 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM041162.D
Acq: 28 Jul 2023 12:44

Tgt Ion: 82 Resp: 106245

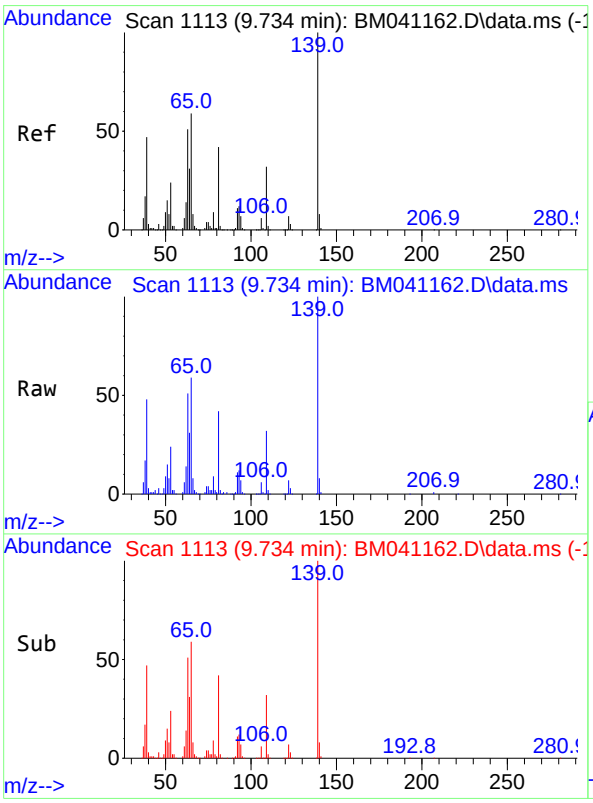
Ion	Ratio	Lower	Upper
82	100		
95	6.6	5.3	7.9
138	16.0	12.8	19.2



Instrument :
BNA_M
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

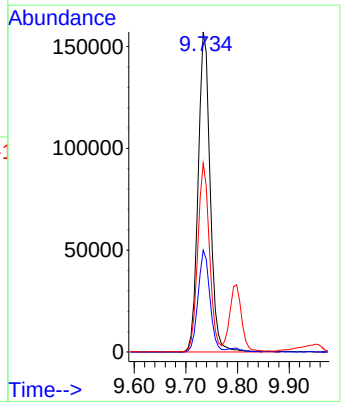
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

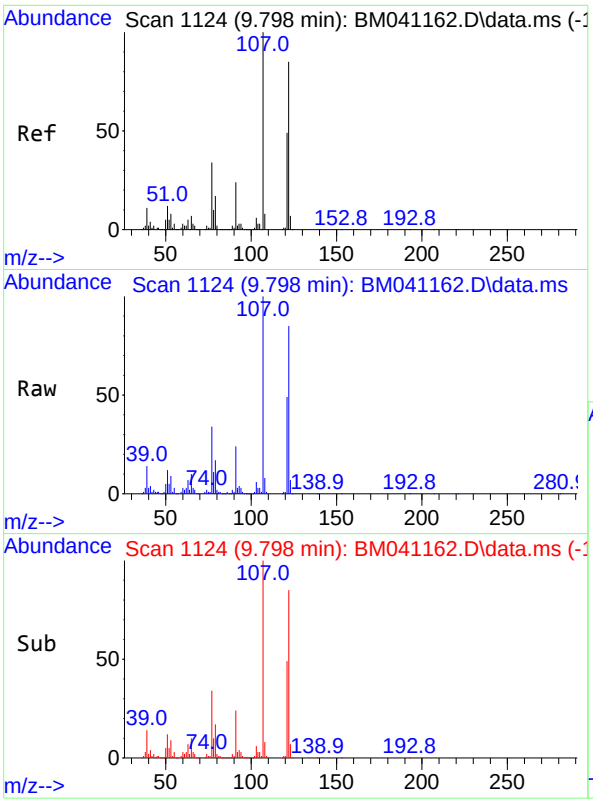


#26
2-Nitrophenol
Concen: 42.260 ng
RT: 9.734 min Scan# 1113
Delta R.T. 0.000 min
Lab File: BM041162.D
Acq: 28 Jul 2023 12:44

Tgt Ion:139 Resp: 253669

Ion	Ratio	Lower	Upper
139	100		
109	31.8	25.4	38.2
65	59.0	47.2	70.8

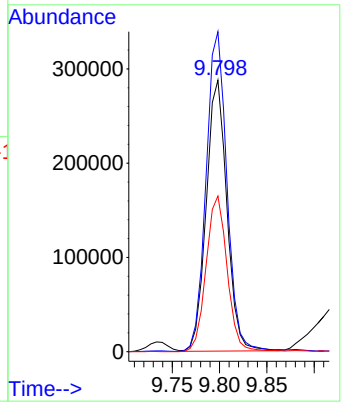




#27
2,4-Dimethylphenol
Concen: 41.366 ng
RT: 9.798 min Scan# 11
Delta R.T. 0.000 min
Lab File: BM041162.D
Acq: 28 Jul 2023 12:44

Tgt Ion:122 Resp: 43692

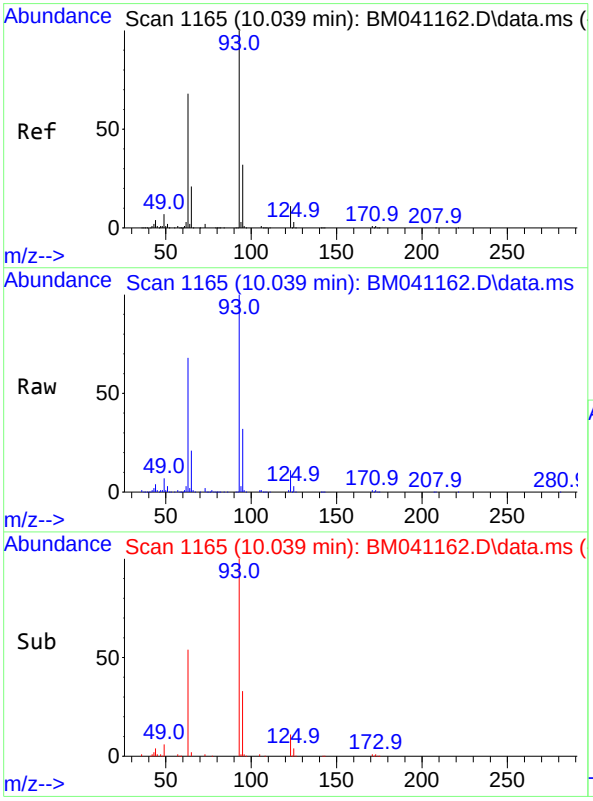
Ion	Ratio	Lower	Upper
122	100		
107	117.9	94.3	141.5
121	57.3	45.8	68.8



Instrument :
BNA_M
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

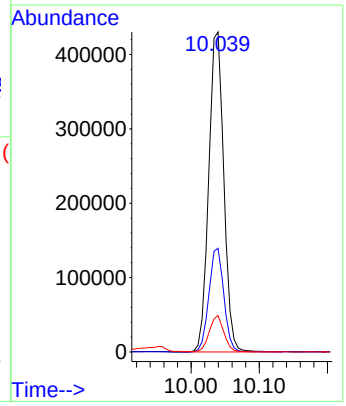
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

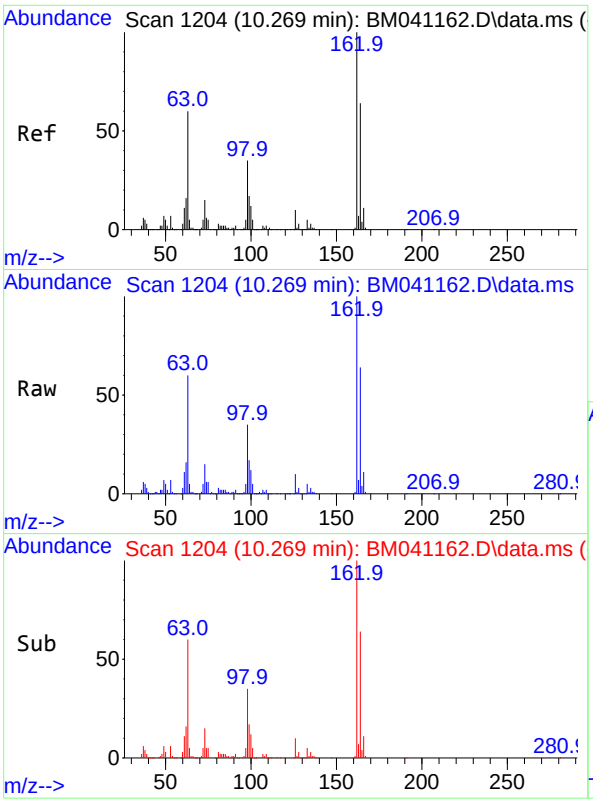


#28
bis(2-Chloroethoxy)methane
Concen: 41.051 ng
RT: 10.039 min Scan# 1165
Delta R.T. 0.000 min
Lab File: BM041162.D
Acq: 28 Jul 2023 12:44

Tgt Ion: 93 Resp: 662770

Ion	Ratio	Lower	Upper
93	100		
95	32.4	25.9	38.9
123	11.4	9.1	13.7

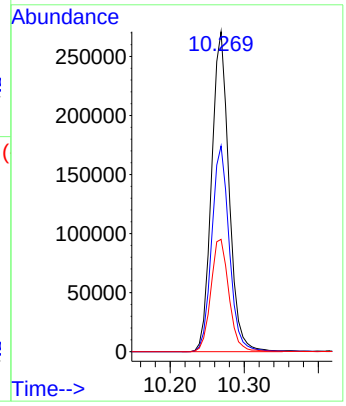




#29
2,4-Dichlorophenol
Concen: 41.525 ng
RT: 10.269 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM041162.D
Acq: 28 Jul 2023 12:44

Tgt Ion:162 Resp: 44231

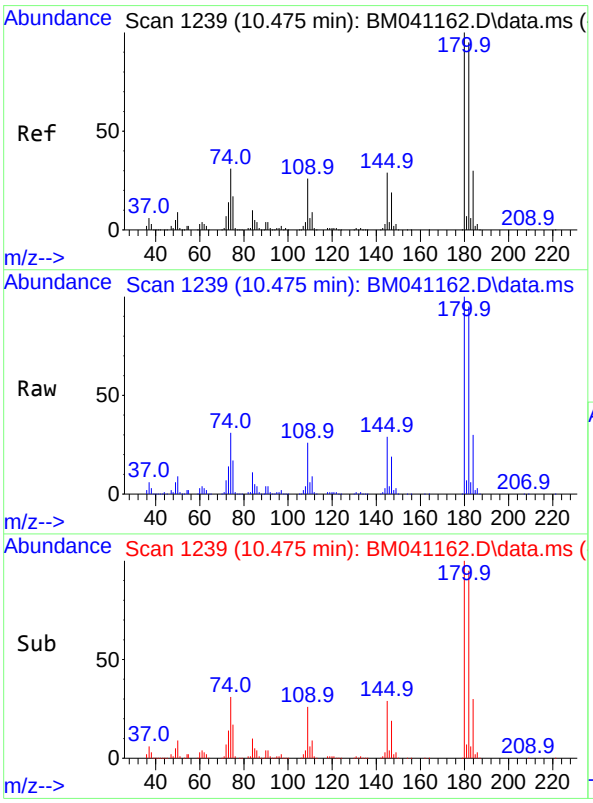
Ion	Ratio	Lower	Upper
162	100		
164	64.3	44.3	84.3
98	35.1	15.1	55.1



Instrument :
BNA_M
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

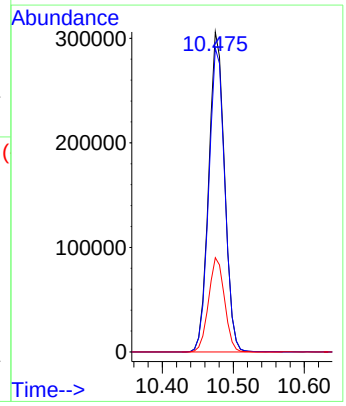
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

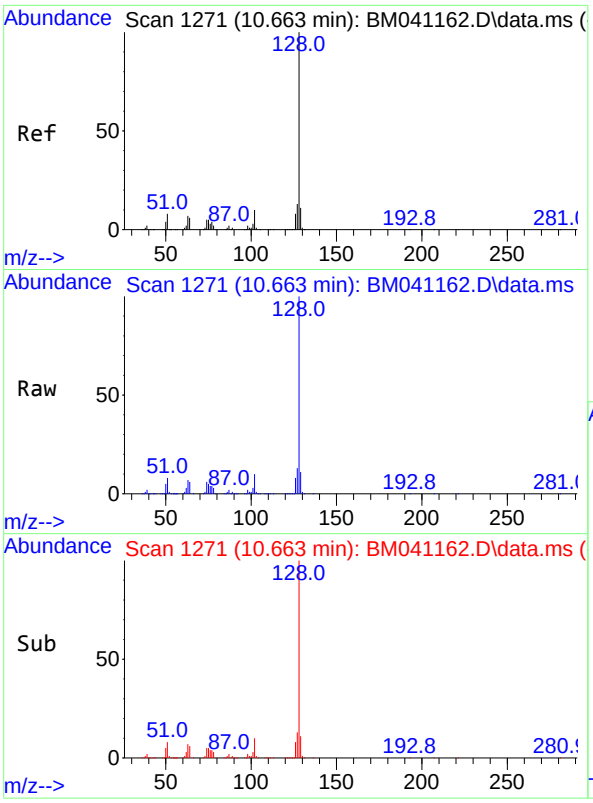


#30
1,2,4-Trichlorobenzene
Concen: 40.316 ng
RT: 10.475 min Scan# 1239
Delta R.T. 0.000 min
Lab File: BM041162.D
Acq: 28 Jul 2023 12:44

Tgt Ion:180 Resp: 474462

Ion	Ratio	Lower	Upper
180	100		
182	94.9	75.9	113.9
145	29.5	23.6	35.4

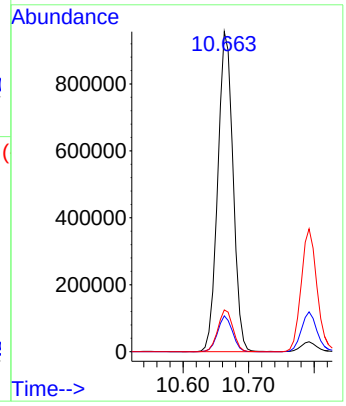




#31
Naphthalene
Concen: 40.137 ng
RT: 10.663 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM041162.D
Acq: 28 Jul 2023 12:44

Tgt Ion:128 Resp: 153795

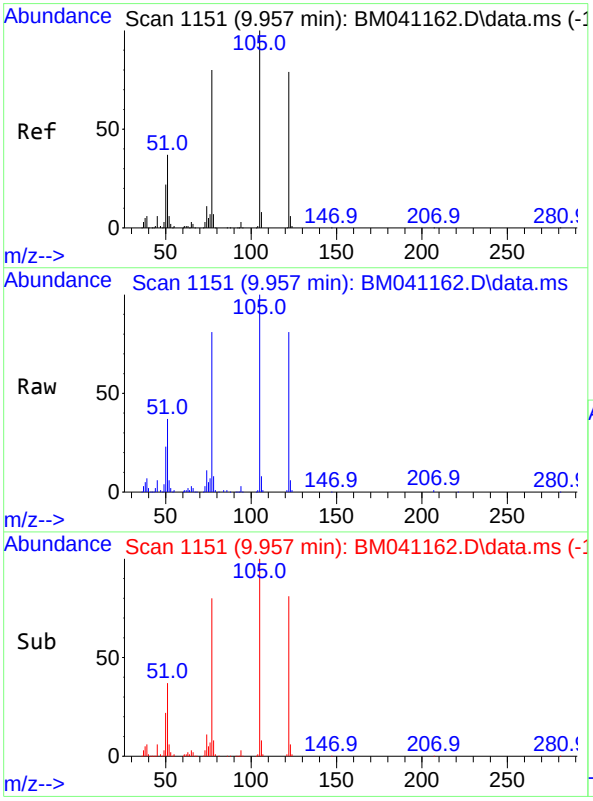
Ion	Ratio	Lower	Upper
128	100		
129	11.2	9.0	13.4
127	13.1	10.5	15.7



Instrument :
BNA_M
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

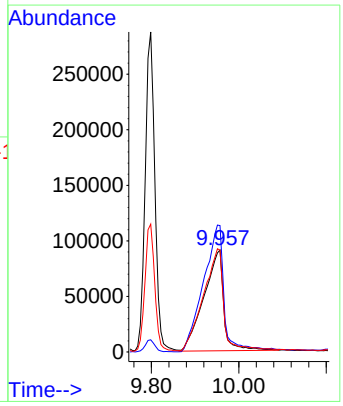
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

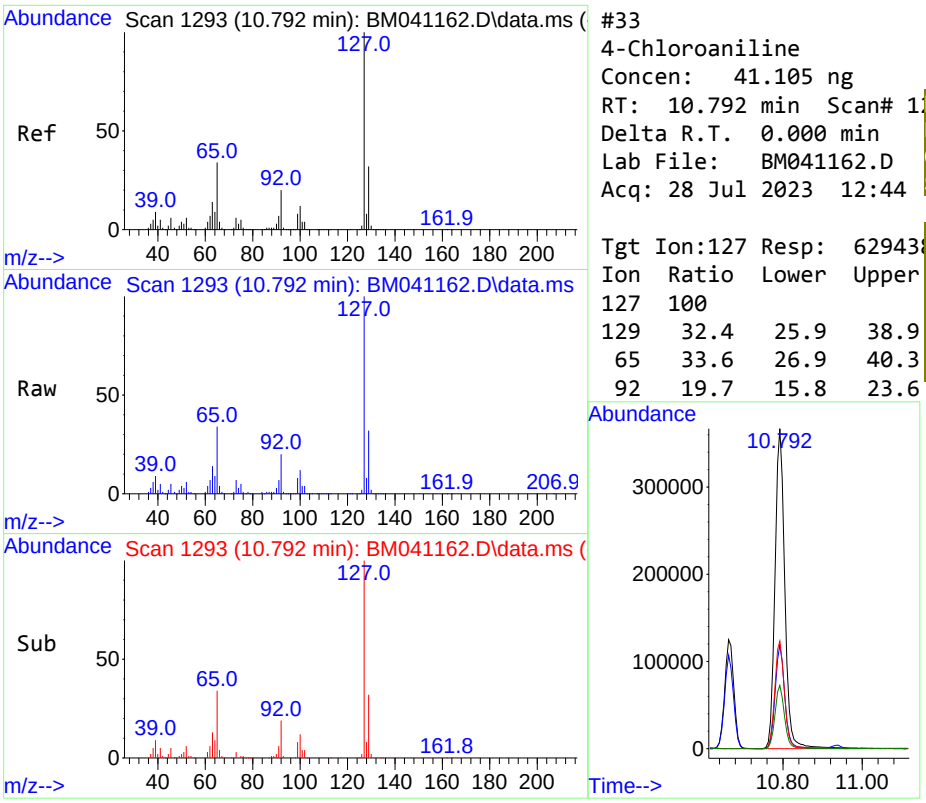


#32
Benzoic acid
Concen: 38.147 ng
RT: 9.957 min Scan# 1151
Delta R.T. 0.000 min
Lab File: BM041162.D
Acq: 28 Jul 2023 12:44

Tgt Ion:122 Resp: 288923

Ion	Ratio	Lower	Upper
122	100		
105	124.0	104.0	144.0
77	99.9	79.9	119.9





#33
4-Chloroaniline
Concen: 41.105 ng
RT: 10.792 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM041162.D
Acq: 28 Jul 2023 12:44

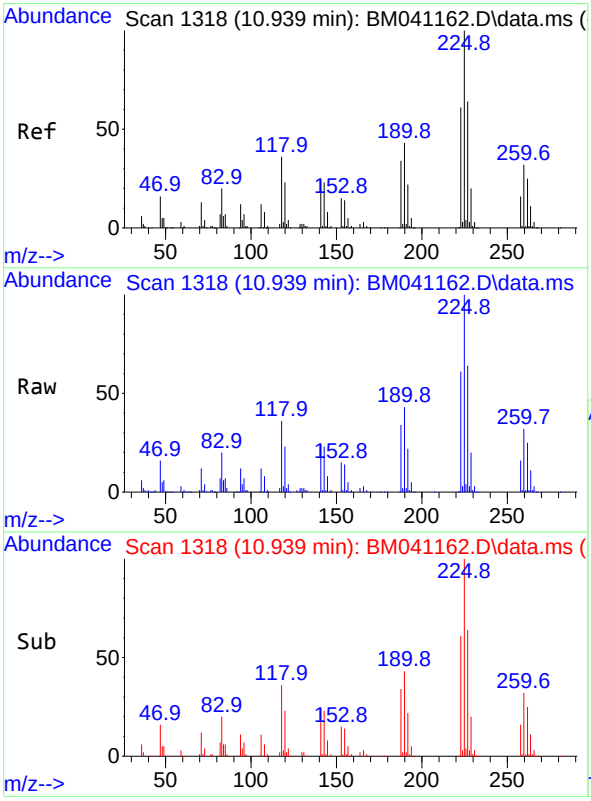
Tgt Ion:127 Resp: 62943

Ion	Ratio	Lower	Upper
127	100		
129	32.4	25.9	38.9
65	33.6	26.9	40.3
92	19.7	15.8	23.6

Instrument :
BNA_M
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

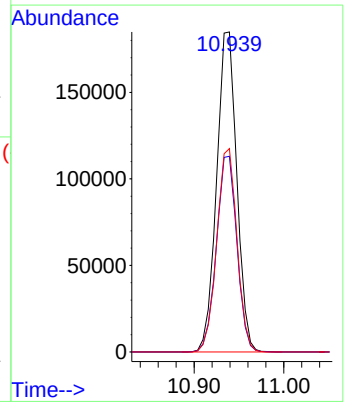
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

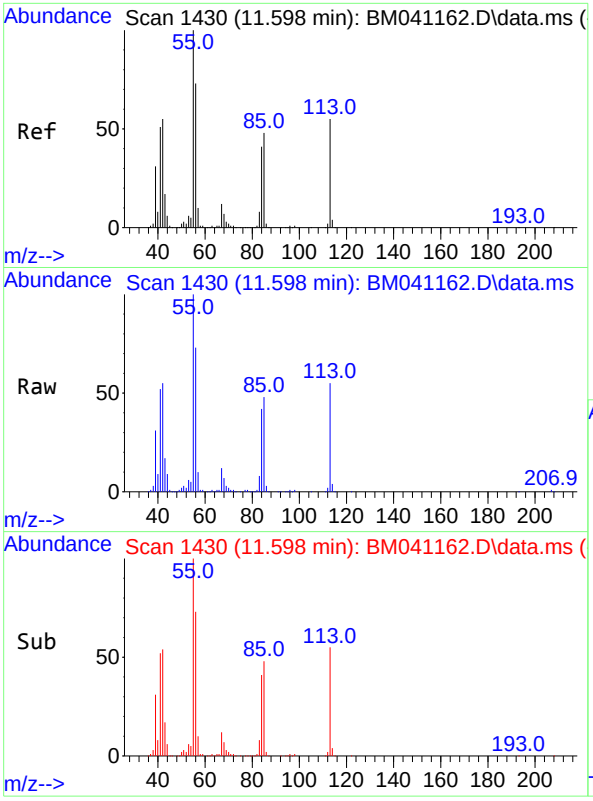


#34
Hexachlorobutadiene
Concen: 40.786 ng
RT: 10.939 min Scan# 1318
Delta R.T. 0.000 min
Lab File: BM041162.D
Acq: 28 Jul 2023 12:44

Tgt Ion:225 Resp: 288679

Ion	Ratio	Lower	Upper
225	100		
223	61.2	49.0	73.4
227	63.5	50.8	76.2

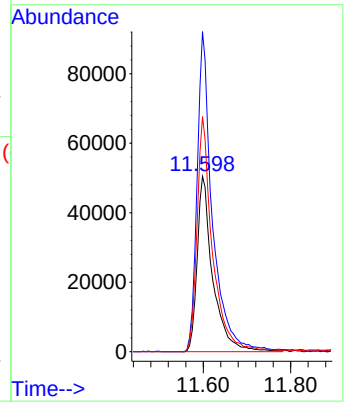




#35
Caprolactam
Concen: 40.665 ng
RT: 11.598 min Scan# 14
Delta R.T. 0.000 min
Lab File: BM041162.D
Acq: 28 Jul 2023 12:44

Tgt Ion:113 Resp: 12530

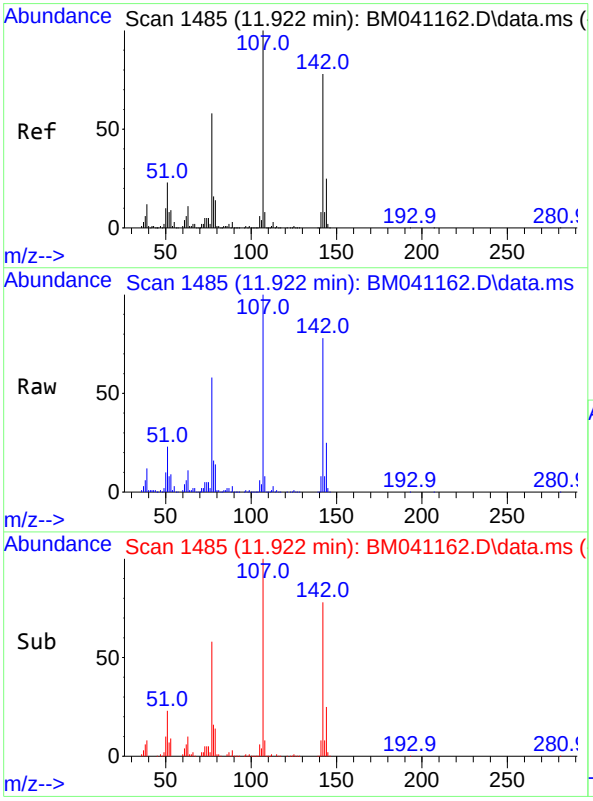
Ion	Ratio	Lower	Upper
113	100		
55	182.5	162.5	202.5
56	134.1	114.1	154.1



Instrument :
BNA_M
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

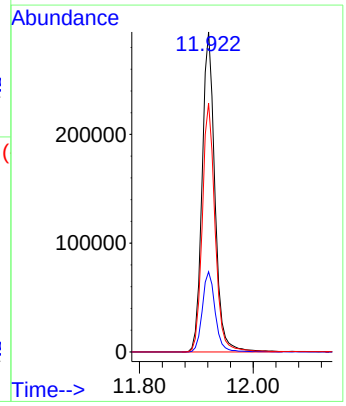
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

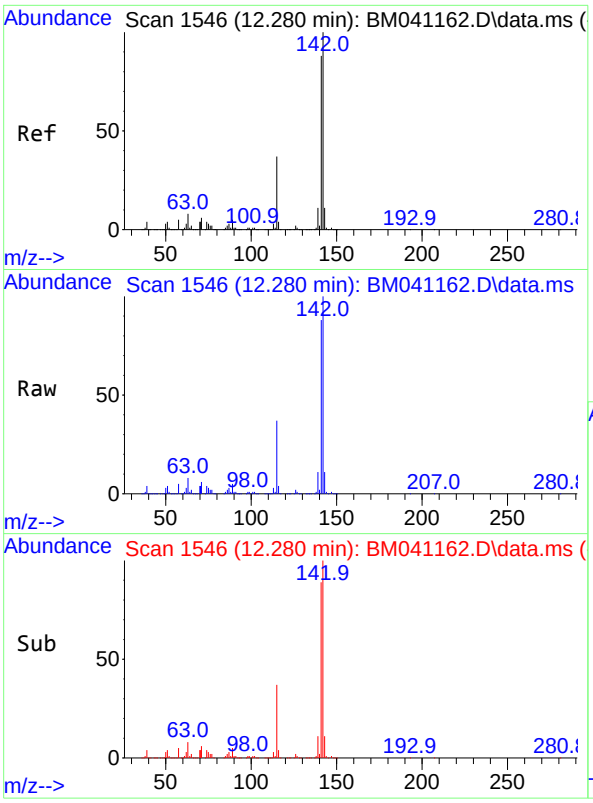


#36
4-Chloro-3-methylphenol
Concen: 41.061 ng
RT: 11.922 min Scan# 1485
Delta R.T. 0.000 min
Lab File: BM041162.D
Acq: 28 Jul 2023 12:44

Tgt Ion:107 Resp: 460343

Ion	Ratio	Lower	Upper
107	100		
144	25.1	20.1	30.1
142	77.8	62.2	93.4

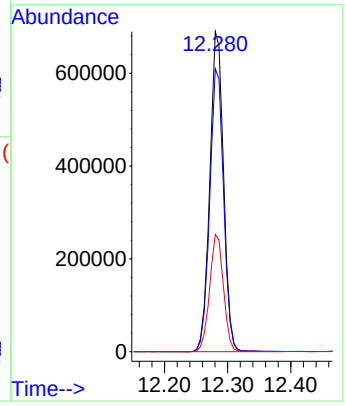




#37
2-Methylnaphthalene
Concen: 40.303 ng
RT: 12.280 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM041162.D
Acq: 28 Jul 2023 12:44

Tgt Ion:142 Resp: 104113

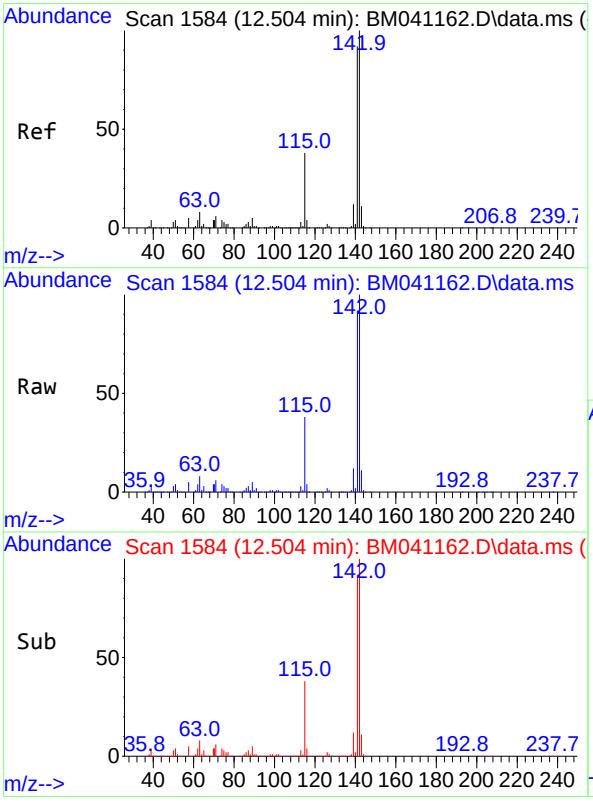
Ion	Ratio	Lower	Upper
142	100		
141	88.4	70.7	106.1
115	36.6	29.3	43.9



Instrument :
BNA_M
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

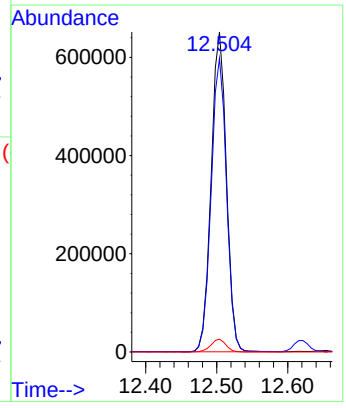
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

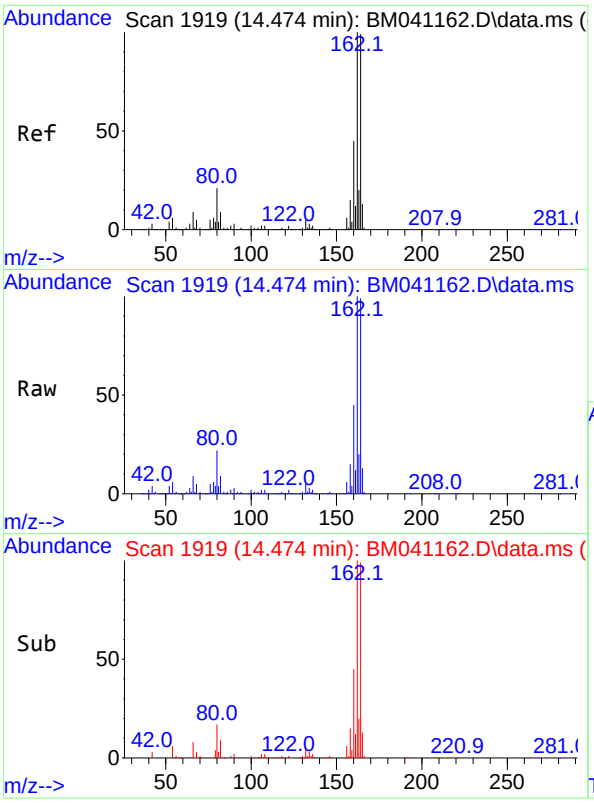


#38
1-Methylnaphthalene
Concen: 40.251 ng
RT: 12.504 min Scan# 1584
Delta R.T. 0.000 min
Lab File: BM041162.D
Acq: 28 Jul 2023 12:44

Tgt Ion:142 Resp: 973175

Ion	Ratio	Lower	Upper
142	100		
141	91.8	73.4	110.2
116	4.0	3.2	4.8

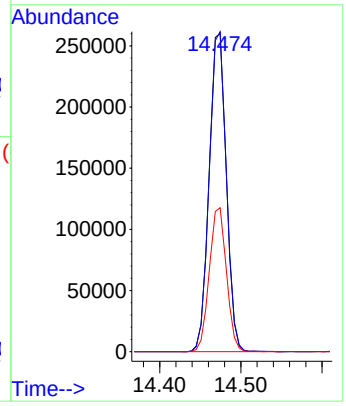




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.474 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM041162.D
Acq: 28 Jul 2023 12:44

Tgt Ion:164 Resp: 38027

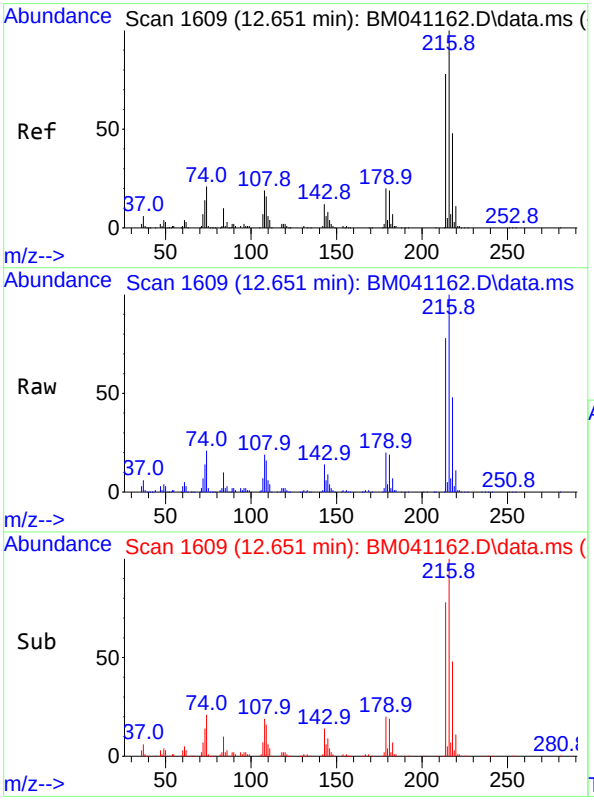
Ion	Ratio	Lower	Upper
164	100		
162	100.5	80.4	120.6
160	45.2	36.2	54.2



Instrument :
BNA_M
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

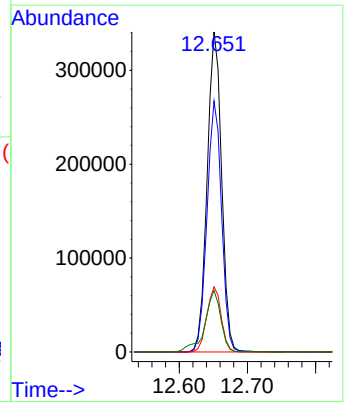
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

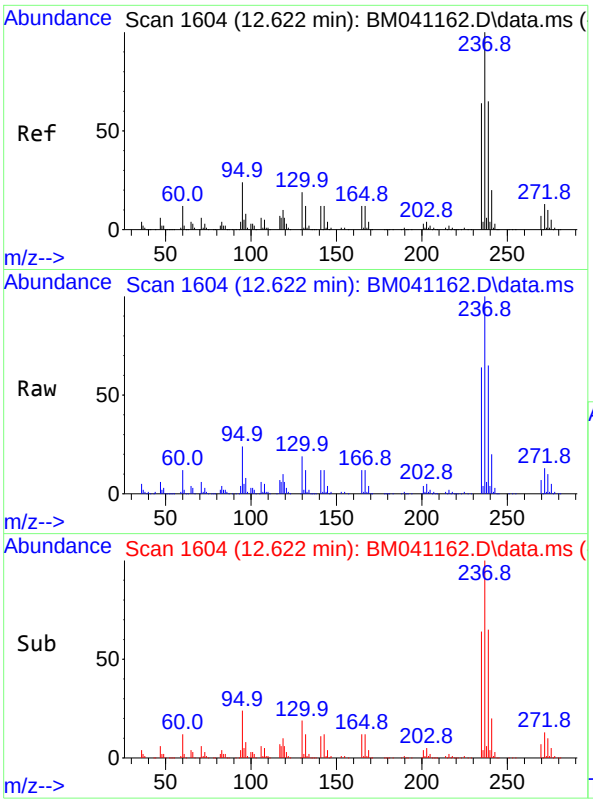


#40
1,2,4,5-Tetrachlorobenzene
Concen: 40.717 ng
RT: 12.651 min Scan# 1609
Delta R.T. 0.000 min
Lab File: BM041162.D
Acq: 28 Jul 2023 12:44

Tgt Ion:216 Resp: 502776

Ion	Ratio	Lower	Upper
216	100		
214	79.0	63.2	94.8
179	20.2	16.2	24.2
108	21.2	17.0	25.4

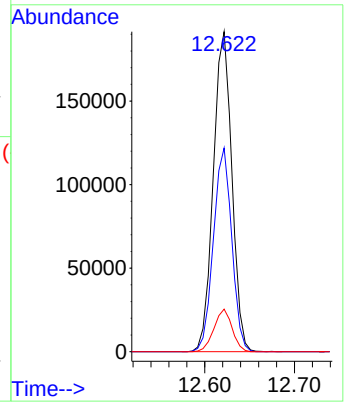




#41
Hexachlorocyclopentadiene
Concen: 42.058 ng
RT: 12.622 min Scan# 1
Delta R.T. -0.000 min
Lab File: BM041162.D
Acq: 28 Jul 2023 12:44

Tgt Ion:237 Resp: 27474

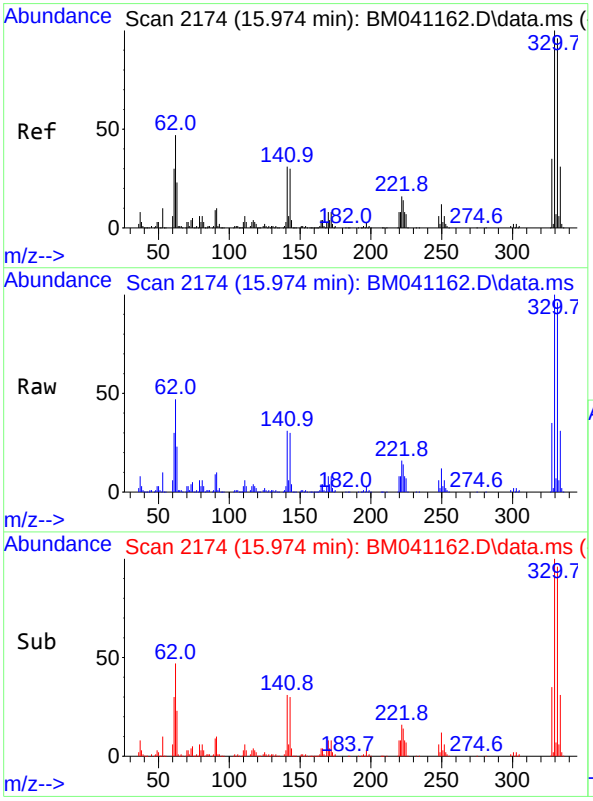
Ion	Ratio	Lower	Upper
237	100		
235	63.6	43.6	83.6
272	13.3	0.0	33.3



Instrument :
BNA_M
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

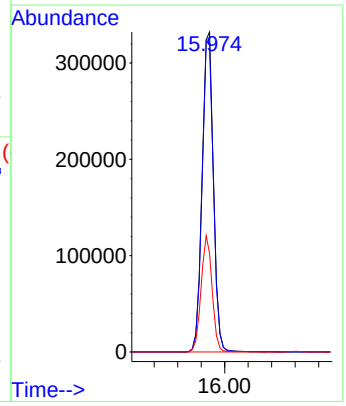
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

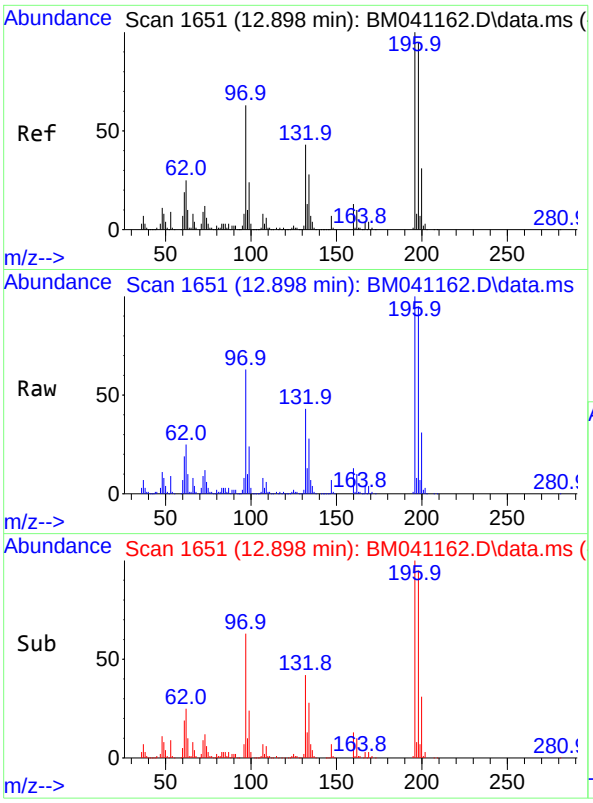


#42
2,4,6-Tribromophenol
Concen: 82.477 ng
RT: 15.974 min Scan# 2174
Delta R.T. 0.000 min
Lab File: BM041162.D
Acq: 28 Jul 2023 12:44

Tgt Ion:330 Resp: 443630

Ion	Ratio	Lower	Upper
330	100		
332	97.1	77.7	116.5
141	35.4	28.3	42.5

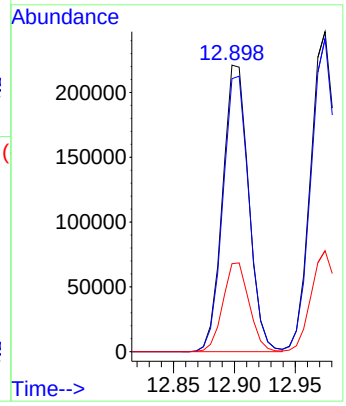




#43
2,4,6-Trichlorophenol
Concen: 41.697 ng
RT: 12.898 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM041162.D
Acq: 28 Jul 2023 12:44

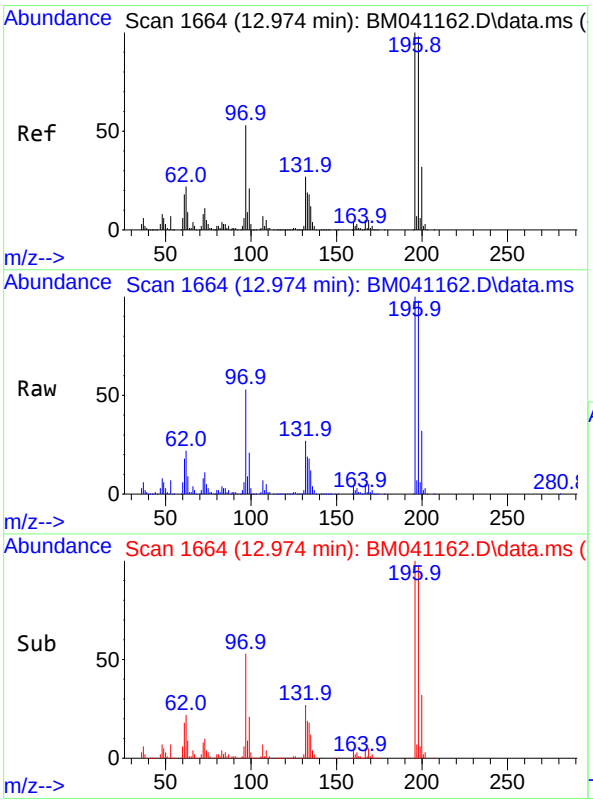
Tgt Ion:196 Resp: 33000

Ion	Ratio	Lower	Upper
196	100		
198	95.3	76.2	114.4
200	30.7	24.6	36.8



Instrument :
BNA_M
ClientSampleId :
SSTDICCC040

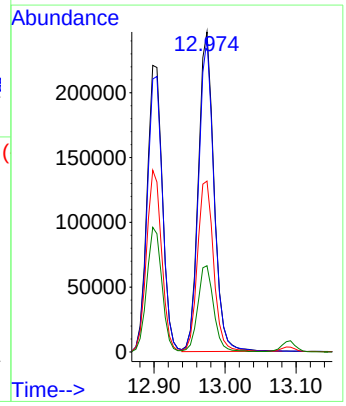
Manual Integrations APPROVED
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

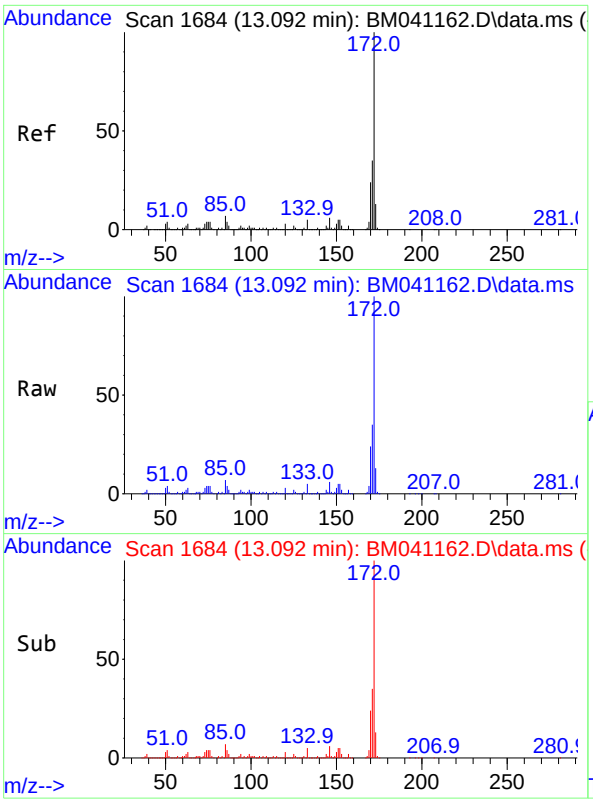


#44
2,4,5-Trichlorophenol
Concen: 41.259 ng
RT: 12.974 min Scan# 1664
Delta R.T. 0.000 min
Lab File: BM041162.D
Acq: 28 Jul 2023 12:44

Tgt Ion:196 Resp: 377946

Ion	Ratio	Lower	Upper
196	100		
198	97.8	78.2	117.4
97	53.4	42.7	64.1
132	27.0	21.6	32.4

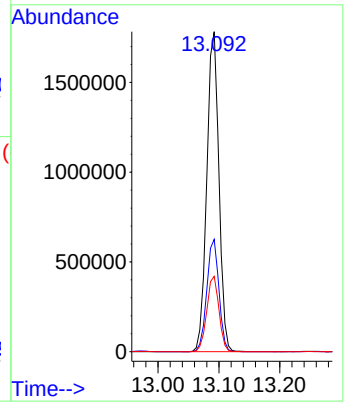




#45
2-Fluorobiphenyl
Concen: 81.942 ng
RT: 13.092 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BM041162.D
Acq: 28 Jul 2023 12:44

Tgt Ion:172 Resp: 246672(

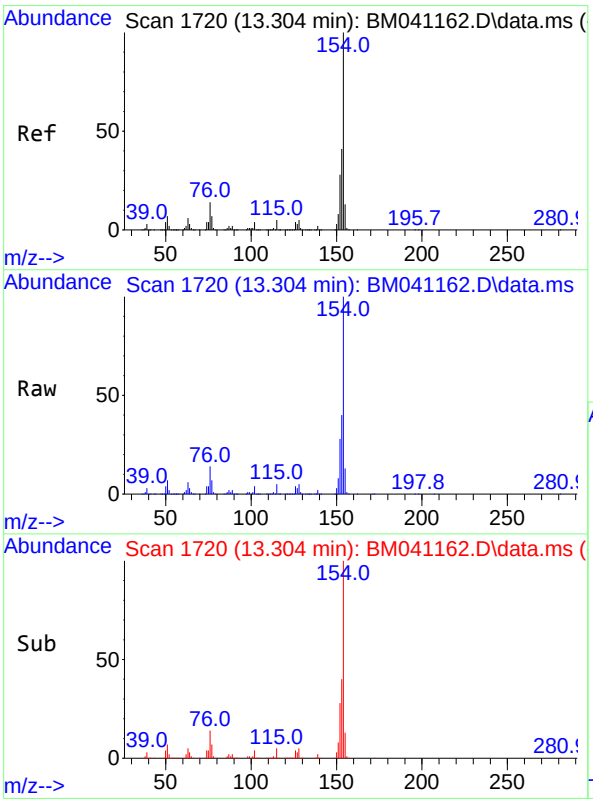
Ion	Ratio	Lower	Upper
172	100		
171	35.1	28.1	42.1
170	23.6	18.9	28.3



Instrument :
BNA_M
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

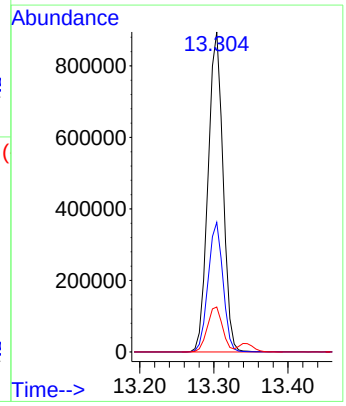
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

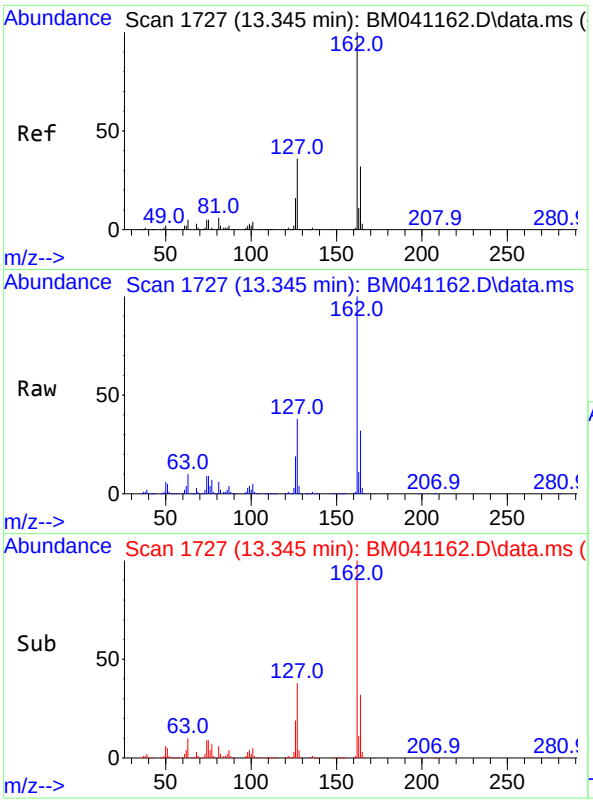


#46
1,1'-Biphenyl
Concen: 40.665 ng
RT: 13.304 min Scan# 1720
Delta R.T. 0.000 min
Lab File: BM041162.D
Acq: 28 Jul 2023 12:44

Tgt Ion:154 Resp: 1253634

Ion	Ratio	Lower	Upper
154	100		
153	40.5	20.5	60.5
76	14.1	0.0	34.1

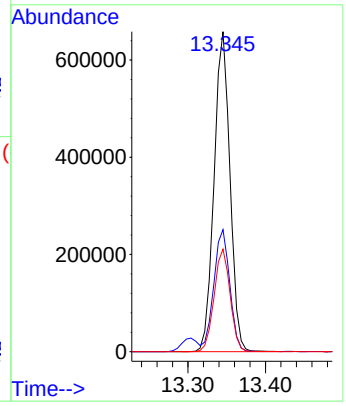




#47
2-Chloronaphthalene
Concen: 40.639 ng
RT: 13.345 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM041162.D
Acq: 28 Jul 2023 12:44

Tgt Ion:162 Resp: 93546

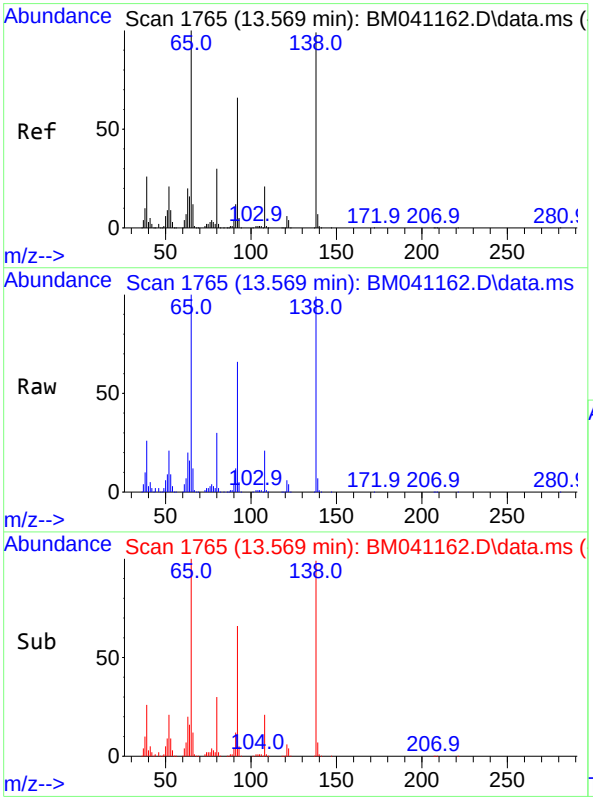
Ion	Ratio	Lower	Upper
162	100		
127	38.2	30.6	45.8
164	32.0	25.6	38.4



Instrument :
BNA_M
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

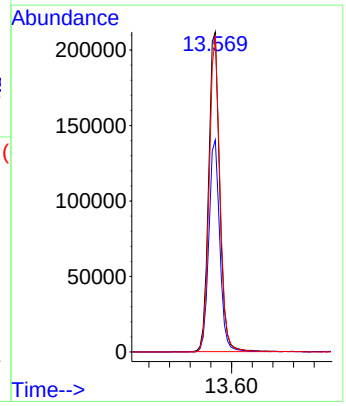
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

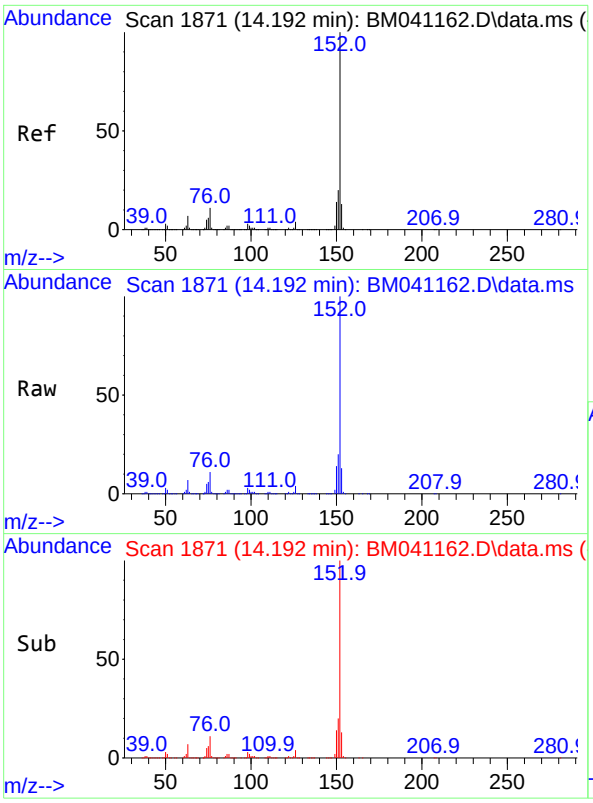


#48
2-Nitroaniline
Concen: 42.927 ng
RT: 13.569 min Scan# 1765
Delta R.T. -0.000 min
Lab File: BM041162.D
Acq: 28 Jul 2023 12:44

Tgt Ion: 65 Resp: 315415

Ion	Ratio	Lower	Upper
65	100		
92	66.2	53.0	79.4
138	98.9	79.1	118.7

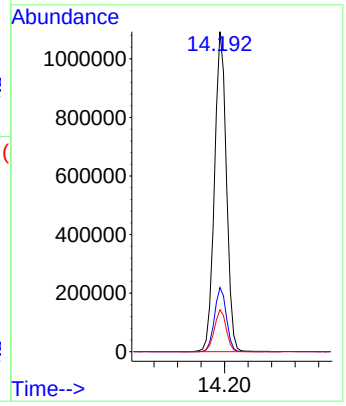




#49
Acenaphthylene
Concen: 41.308 ng
RT: 14.192 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM041162.D
Acq: 28 Jul 2023 12:44

Tgt Ion:152 Resp: 153478

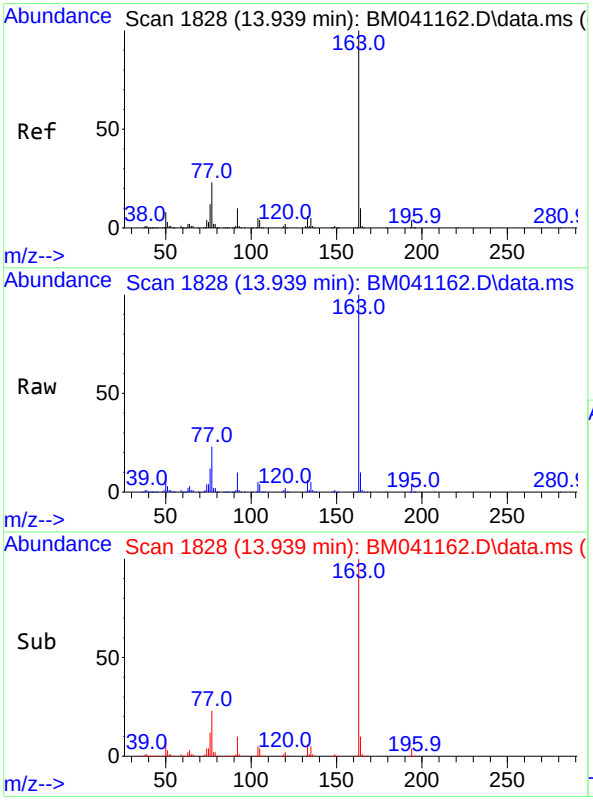
Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.1	24.1
153	13.1	10.5	15.7



Instrument :
BNA_M
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

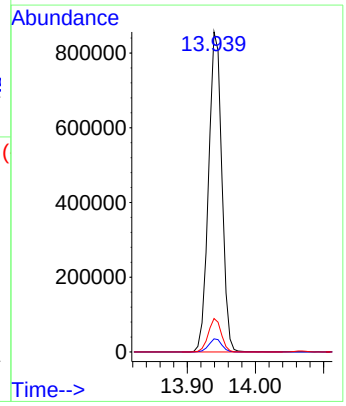
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

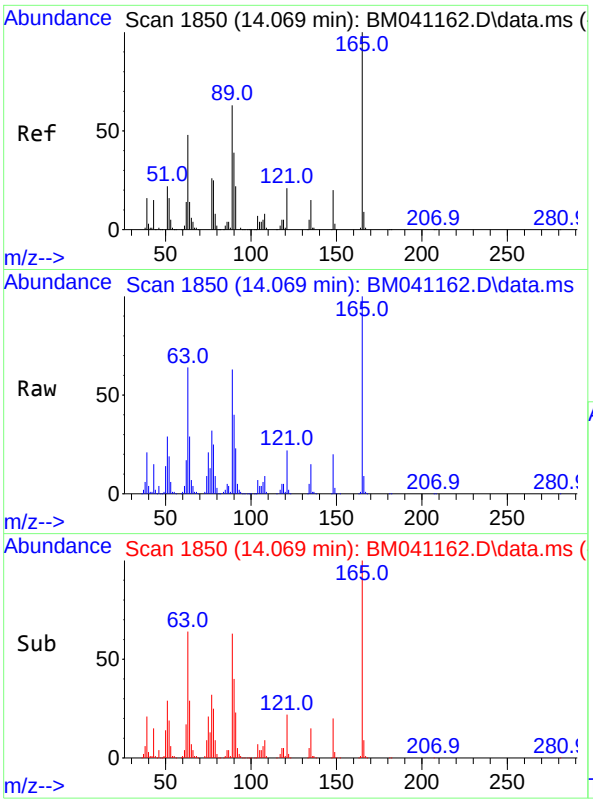


#50
Dimethylphthalate
Concen: 40.508 ng
RT: 13.939 min Scan# 1828
Delta R.T. 0.000 min
Lab File: BM041162.D
Acq: 28 Jul 2023 12:44

Tgt Ion:163 Resp: 1158723

Ion	Ratio	Lower	Upper
163	100		
194	4.1	3.3	4.9
164	10.4	8.3	12.5

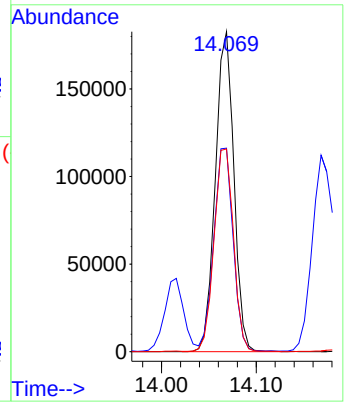




#51
2,6-Dinitrotoluene
Concen: 41.751 ng
RT: 14.069 min Scan# 1
Delta R.T. -0.000 min
Lab File: BM041162.D
Acq: 28 Jul 2023 12:44

Tgt Ion:165 Resp: 24745

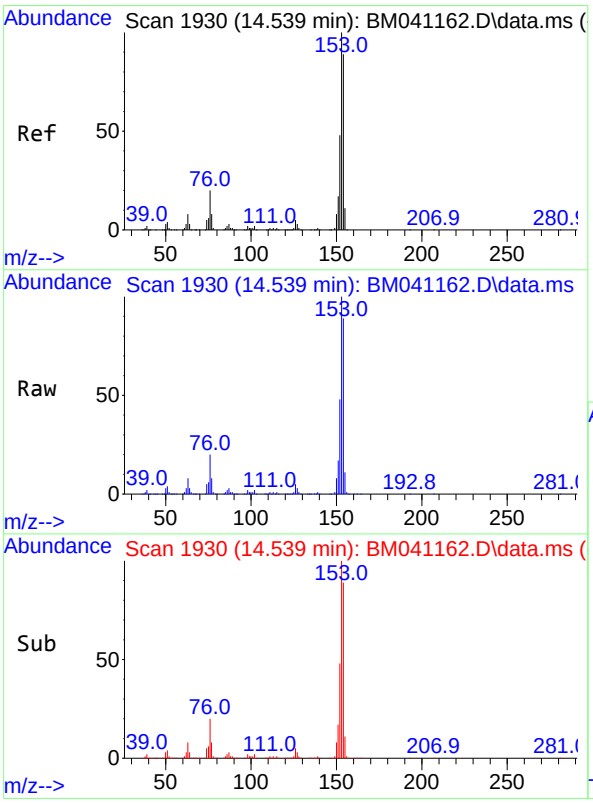
Ion	Ratio	Lower	Upper
165	100		
63	63.6	50.9	76.3
89	63.3	50.6	76.0



Instrument :
BNA_M
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

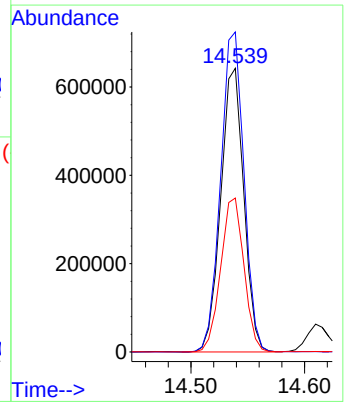
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

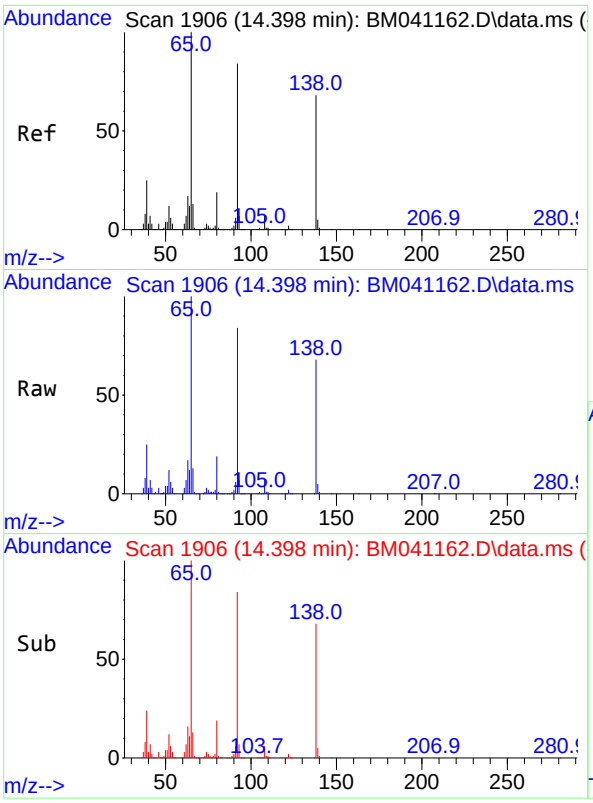


#52
Acenaphthene
Concen: 40.549 ng
RT: 14.539 min Scan# 1930
Delta R.T. 0.000 min
Lab File: BM041162.D
Acq: 28 Jul 2023 12:44

Tgt Ion:154 Resp: 907597

Ion	Ratio	Lower	Upper
154	100		
153	112.8	90.2	135.4
152	54.2	43.4	65.0

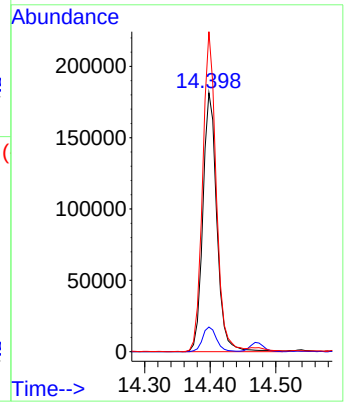




#53
3-Nitroaniline
Concen: 39.755 ng
RT: 14.398 min Scan# 1
Delta R.T. -0.000 min
Lab File: BM041162.D
Acq: 28 Jul 2023 12:44

Tgt Ion:138 Resp: 26945

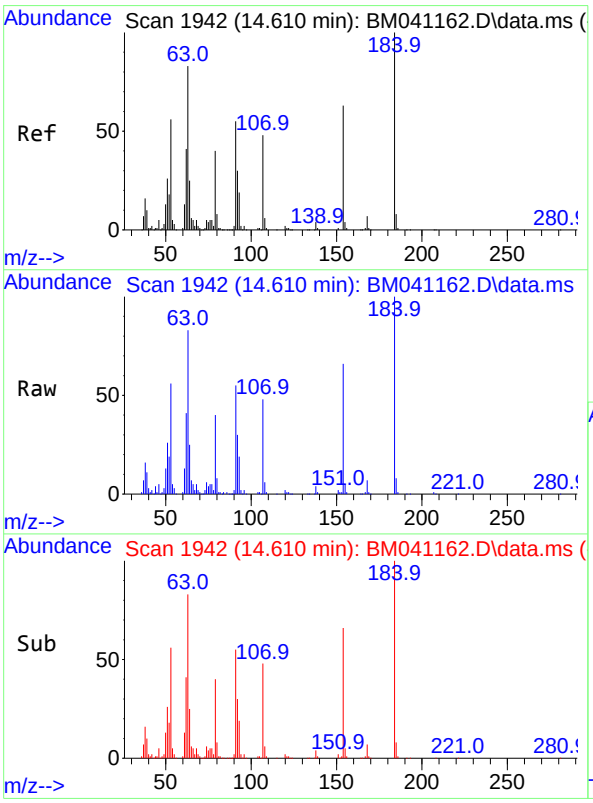
Ion	Ratio	Lower	Upper
138	100		
108	9.5	7.6	11.4
92	123.6	98.9	148.3



Instrument :
BNA_M
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

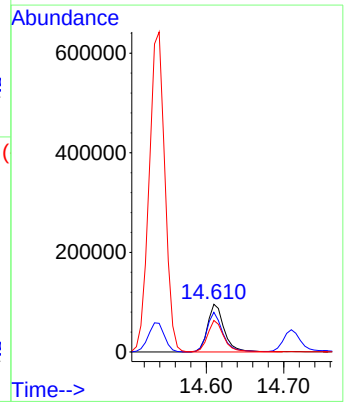
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

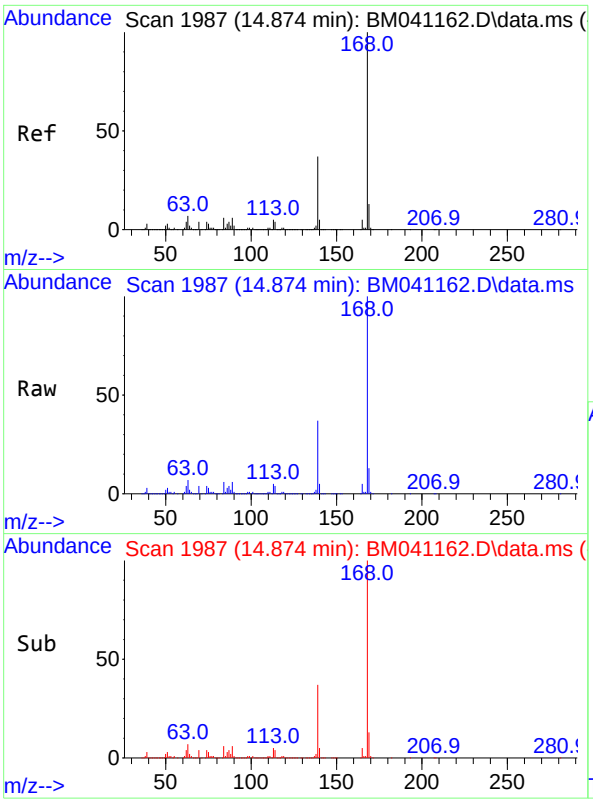


#54
2,4-Dinitrophenol
Concen: 38.706 ng
RT: 14.610 min Scan# 1942
Delta R.T. -0.000 min
Lab File: BM041162.D
Acq: 28 Jul 2023 12:44

Tgt Ion:184 Resp: 141918

Ion	Ratio	Lower	Upper
184	100		
63	83.1	66.5	99.7
154	66.0	52.8	79.2

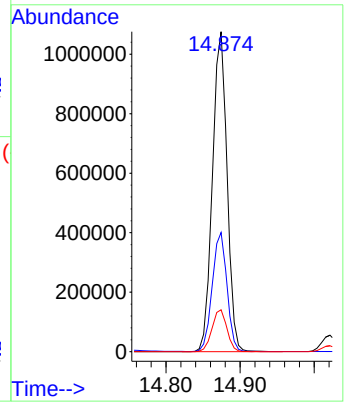




#55
Dibenzofuran
Concen: 40.312 ng
RT: 14.874 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM041162.D
Acq: 28 Jul 2023 12:44

Tgt Ion:168 Resp: 147215

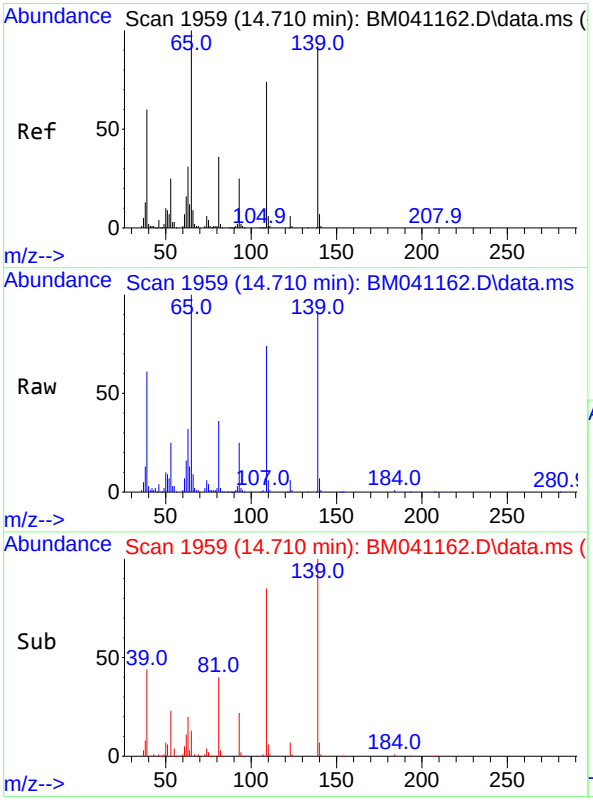
Ion	Ratio	Lower	Upper
168	100		
139	37.2	29.8	44.6
169	13.1	10.5	15.7



Instrument :
BNA_M
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

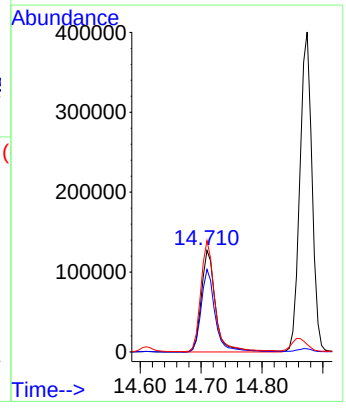
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

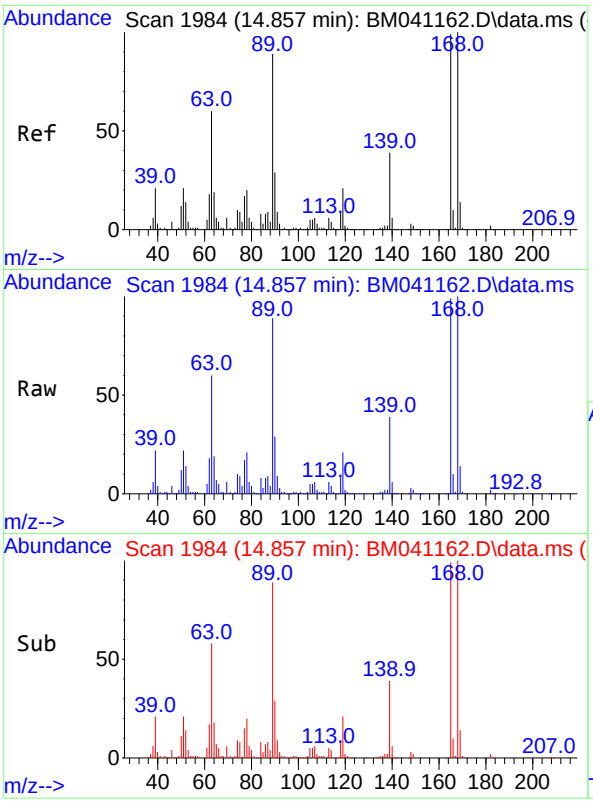


#56
4-Nitrophenol
Concen: 41.472 ng
RT: 14.710 min Scan# 1959
Delta R.T. -0.000 min
Lab File: BM041162.D
Acq: 28 Jul 2023 12:44

Tgt Ion:139 Resp: 204860

Ion	Ratio	Lower	Upper
139	100		
109	81.2	61.2	101.2
65	109.5	89.5	129.5

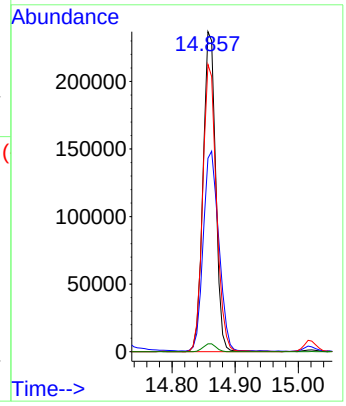




#57
2,4-Dinitrotoluene
Concen: 39.187 ng
RT: 14.857 min Scan# 1
Delta R.T. -0.000 min
Lab File: BM041162.D
Acq: 28 Jul 2023 12:44

Tgt Ion:165 Resp: 32729

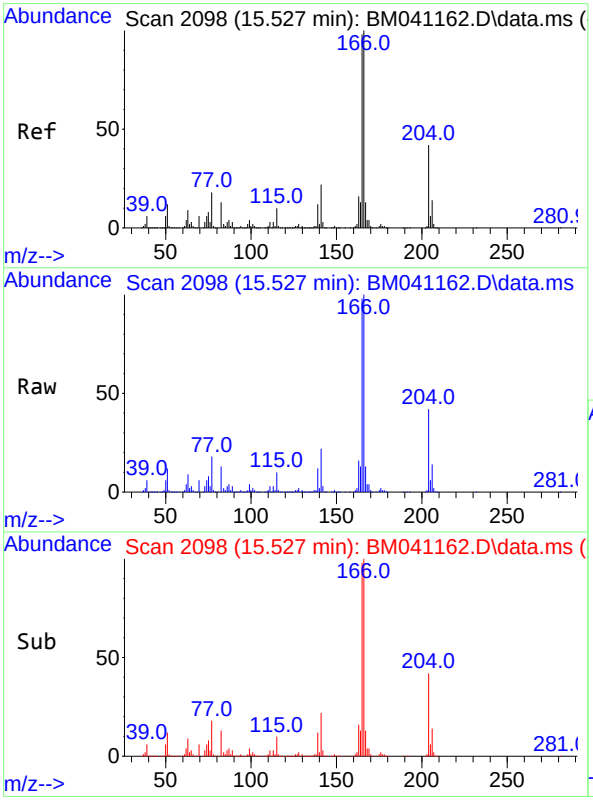
Ion	Ratio	Lower	Upper
165	100		
63	60.4	48.3	72.5
89	89.8	71.8	107.8
182	2.5	2.0	3.0



Instrument :
BNA_M
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

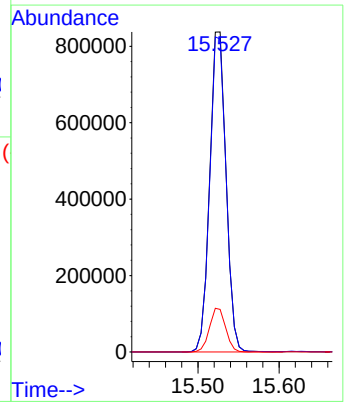
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

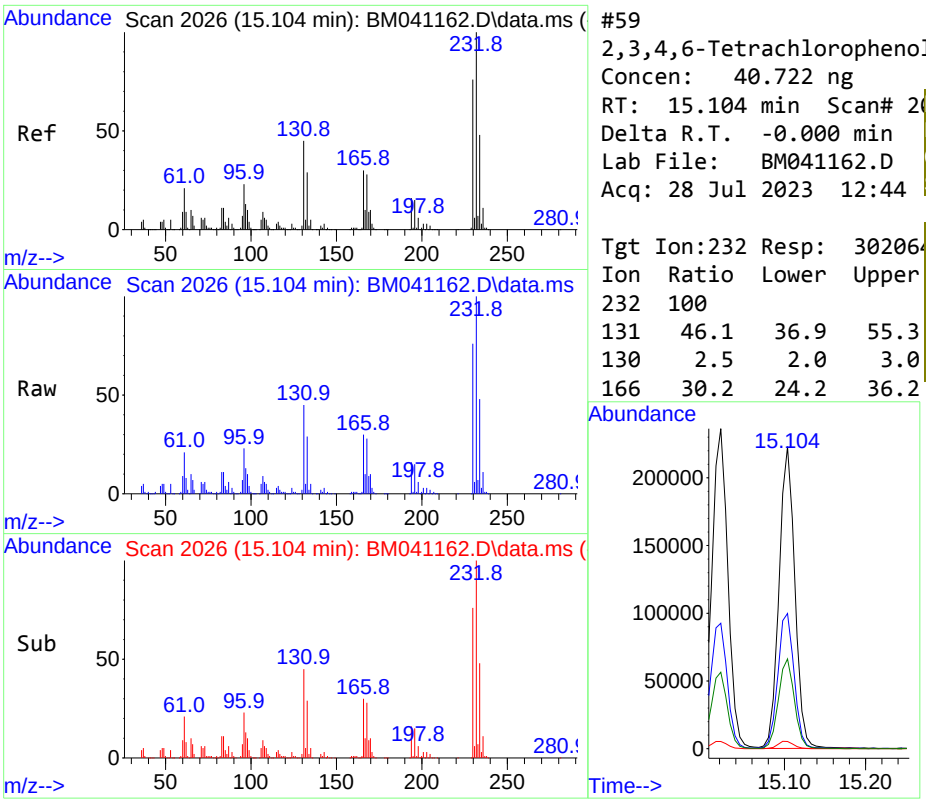


#58
Fluorene
Concen: 40.482 ng
RT: 15.527 min Scan# 2098
Delta R.T. 0.000 min
Lab File: BM041162.D
Acq: 28 Jul 2023 12:44

Tgt Ion:166 Resp: 1166240

Ion	Ratio	Lower	Upper
166	100		
165	97.8	78.2	117.4
167	13.3	10.6	16.0





#59
2,3,4,6-Tetrachlorophenol
Concen: 40.722 ng
RT: 15.104 min Scan# 2
Delta R.T. -0.000 min
Lab File: BM041162.D
Acq: 28 Jul 2023 12:44

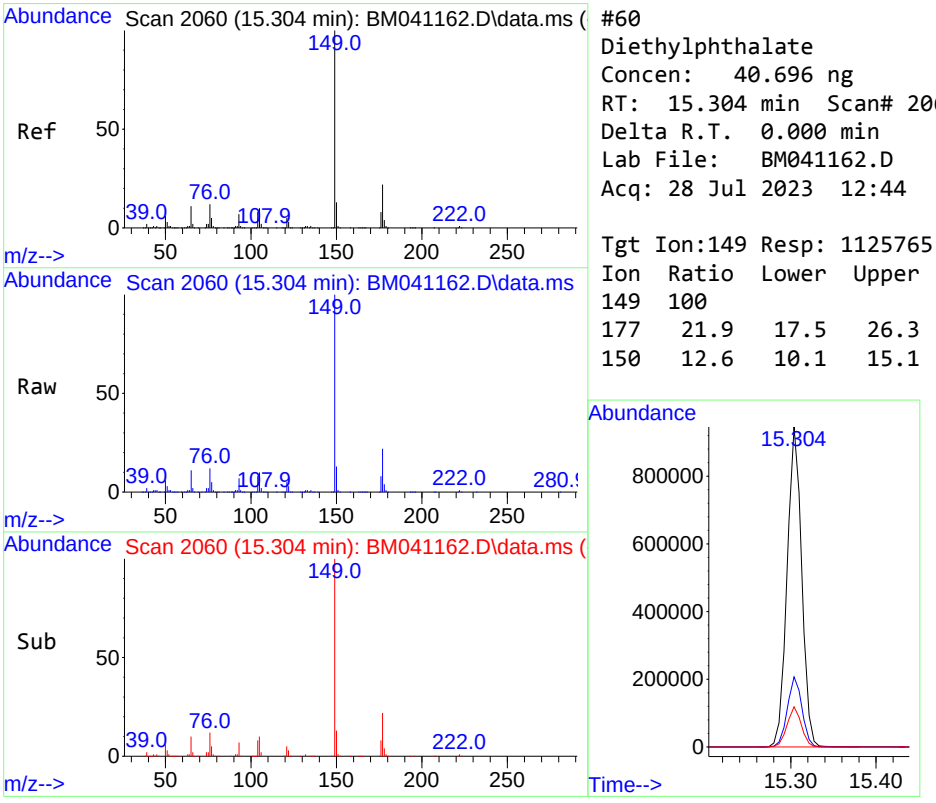
Tgt Ion:232 Resp: 30206

Ion	Ratio	Lower	Upper
232	100		
131	46.1	36.9	55.3
130	2.5	2.0	3.0
166	30.2	24.2	36.2

Instrument :
BNA_M
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

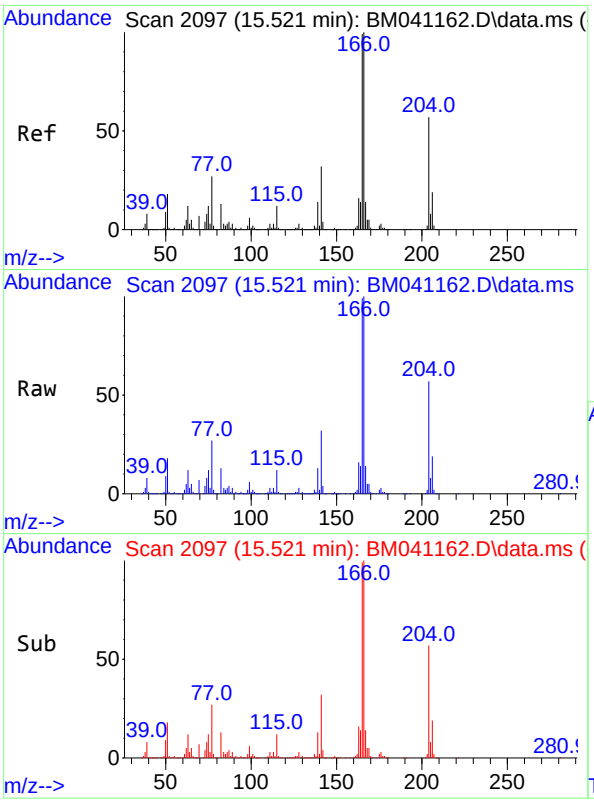
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023



#60
Diethylphthalate
Concen: 40.696 ng
RT: 15.304 min Scan# 2060
Delta R.T. 0.000 min
Lab File: BM041162.D
Acq: 28 Jul 2023 12:44

Tgt Ion:149 Resp: 1125765

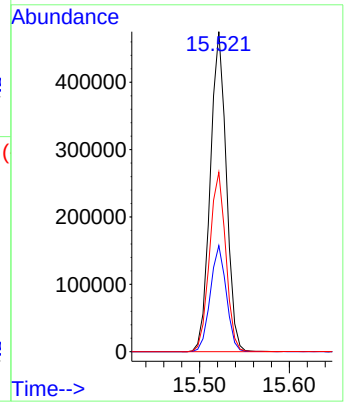
Ion	Ratio	Lower	Upper
149	100		
177	21.9	17.5	26.3
150	12.6	10.1	15.1



#61
4-Chlorophenyl-phenylether
Concen: 40.849 ng
RT: 15.521 min Scan# 2
Delta R.T. 0.000 min
Lab File: BM041162.D
Acq: 28 Jul 2023 12:44

Tgt Ion:204 Resp: 58971

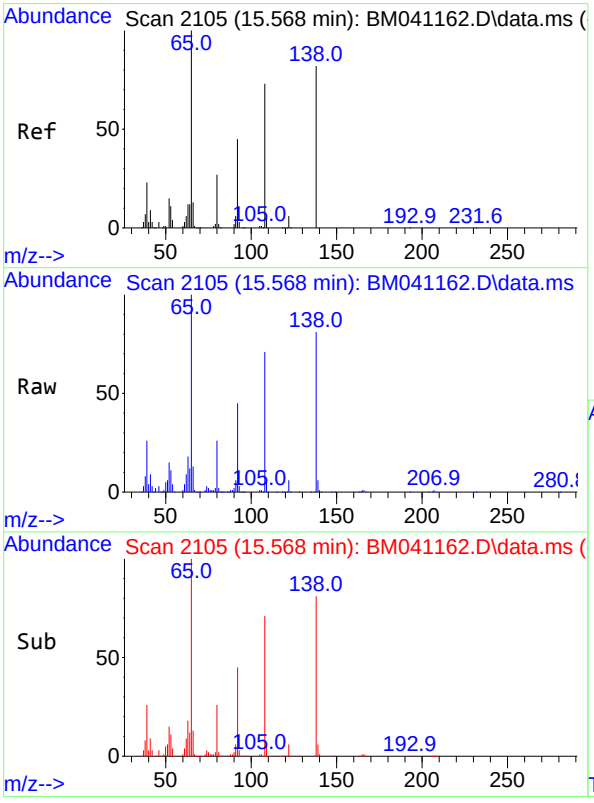
Ion	Ratio	Lower	Upper
204	100		
206	33.1	26.5	39.7
141	56.0	44.8	67.2



Instrument :
BNA_M
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

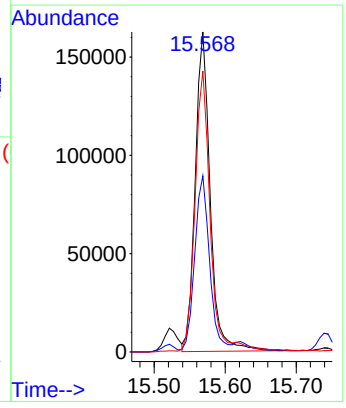
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

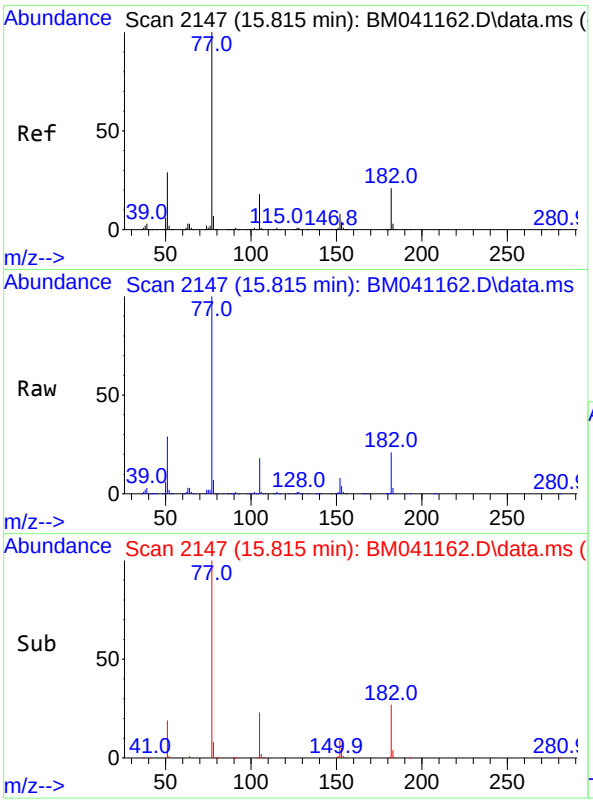


#62
4-Nitroaniline
Concen: 38.598 ng
RT: 15.568 min Scan# 2105
Delta R.T. 0.000 min
Lab File: BM041162.D
Acq: 28 Jul 2023 12:44

Tgt Ion:138 Resp: 238374

Ion	Ratio	Lower	Upper
138	100		
92	55.1	35.1	75.1
108	87.8	67.8	107.8

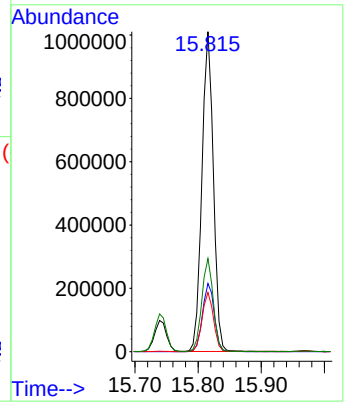




#63
Azobenzene
Concen: 41.819 ng
RT: 15.815 min Scan# 21
Delta R.T. 0.000 min
Lab File: BM041162.D
Acq: 28 Jul 2023 12:44

Tgt Ion: 77 Resp: 126716

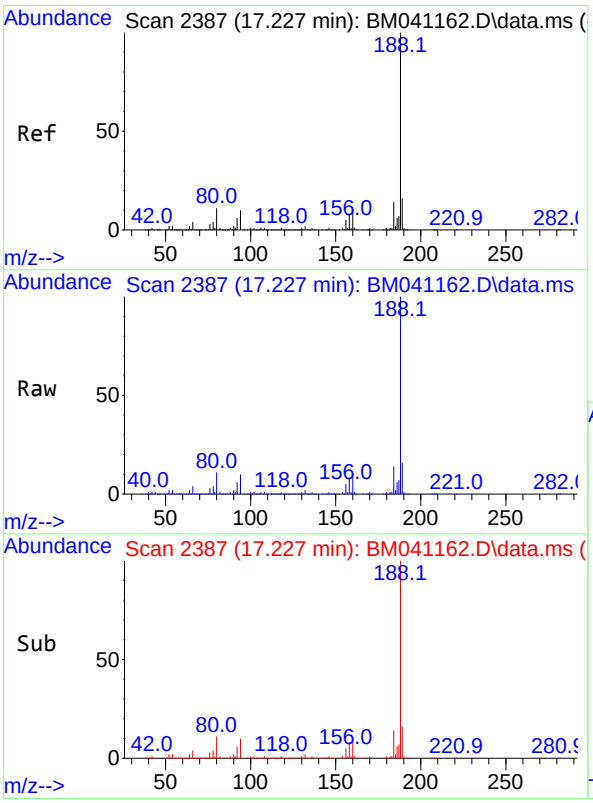
Ion	Ratio	Lower	Upper
77	100		
182	21.3	1.3	41.3
105	18.5	0.0	38.5
51	29.1	9.1	49.1



Instrument :
BNA_M
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

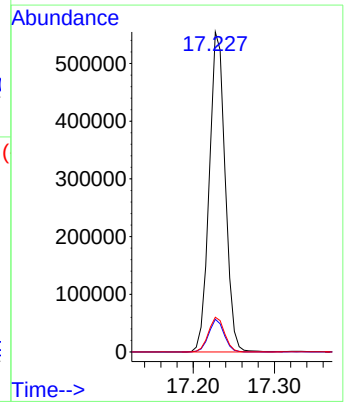
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

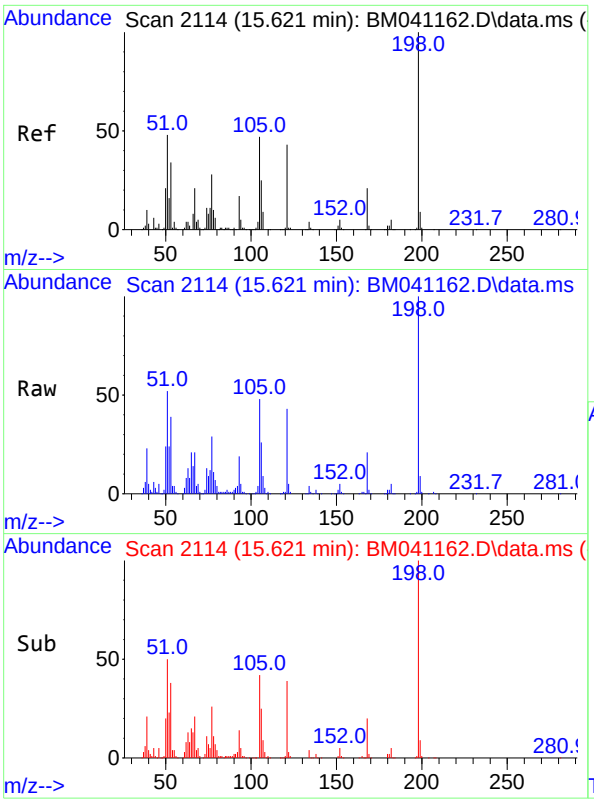


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.227 min Scan# 2387
Delta R.T. 0.000 min
Lab File: BM041162.D
Acq: 28 Jul 2023 12:44

Tgt Ion:188 Resp: 753520

Ion	Ratio	Lower	Upper
188	100		
94	10.2	8.2	12.2
80	10.8	8.6	13.0

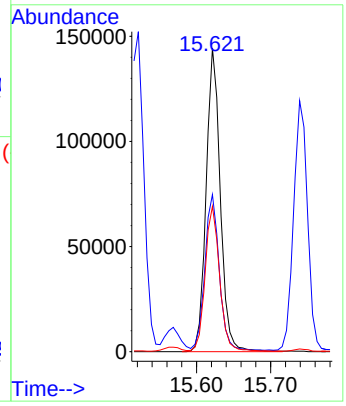




#65
4,6-Dinitro-2-methylphenol
Concen: 42.085 ng
RT: 15.621 min Scan# 2
Delta R.T. 0.000 min
Lab File: BM041162.D
Acq: 28 Jul 2023 12:44

Tgt Ion:198 Resp: 19210

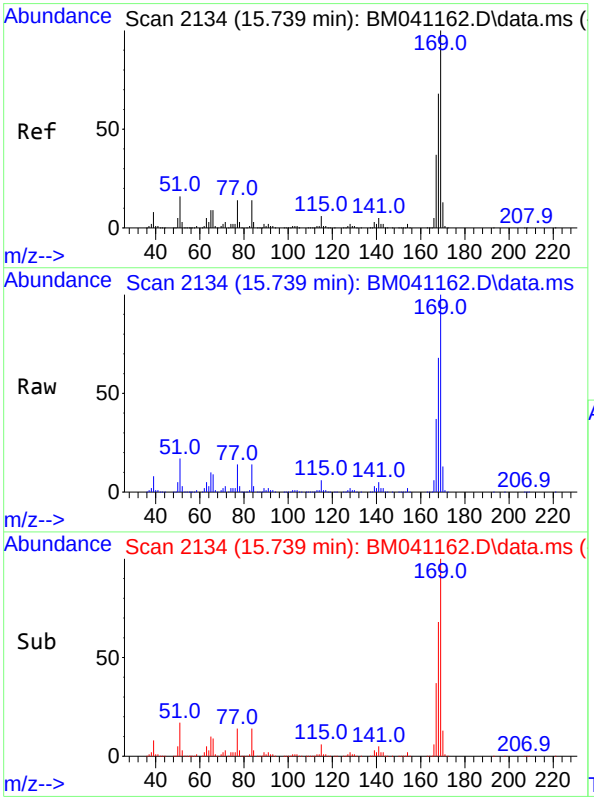
Ion	Ratio	Lower	Upper
198	100		
51	51.7	31.7	71.7
105	47.8	27.8	67.8



Instrument :
BNA_M
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

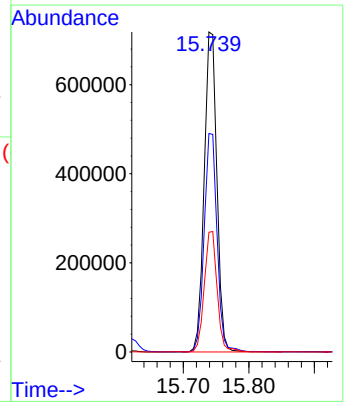
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

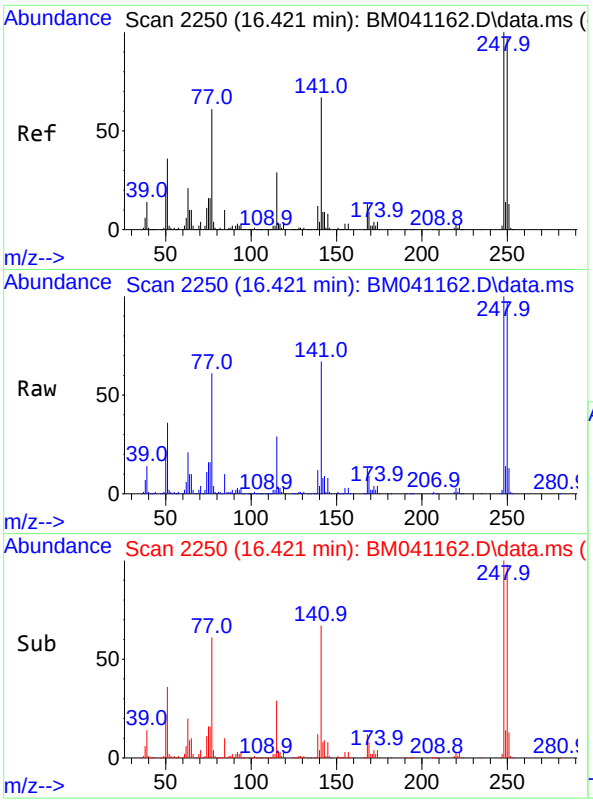


#66
n-Nitrosodiphenylamine
Concen: 41.387 ng
RT: 15.739 min Scan# 2134
Delta R.T. 0.000 min
Lab File: BM041162.D
Acq: 28 Jul 2023 12:44

Tgt Ion:169 Resp: 969901

Ion	Ratio	Lower	Upper
169	100		
168	68.2	54.6	81.8
167	37.4	29.9	44.9

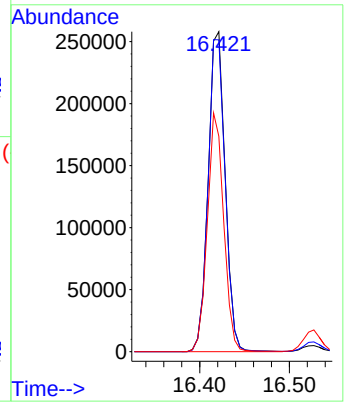




#67
4-Bromophenyl-phenylether
Concen: 41.063 ng
RT: 16.421 min Scan# 2
Delta R.T. 0.000 min
Lab File: BM041162.D
Acq: 28 Jul 2023 12:44

Tgt Ion:248 Resp: 33924

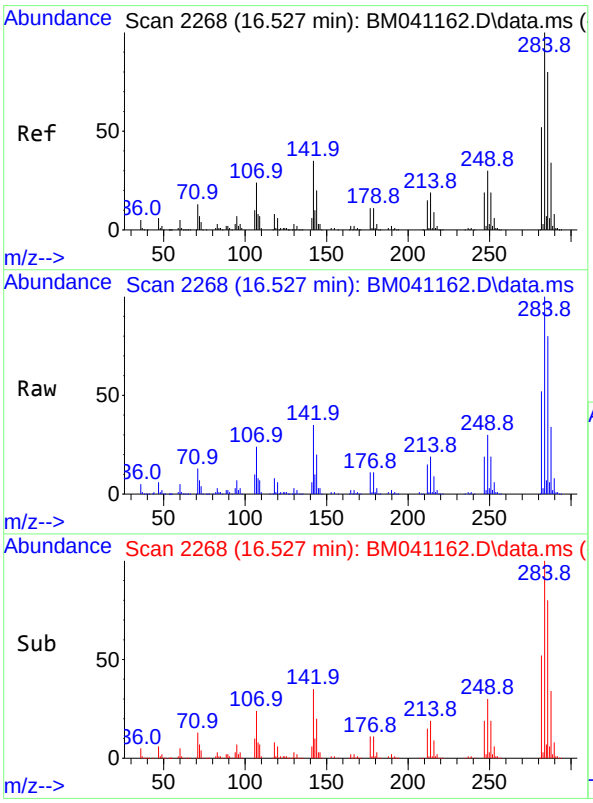
Ion	Ratio	Lower	Upper
248	100		
250	97.5	78.0	117.0
141	67.3	53.8	80.8



Instrument :
BNA_M
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

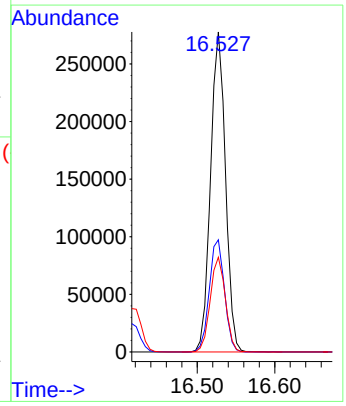
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

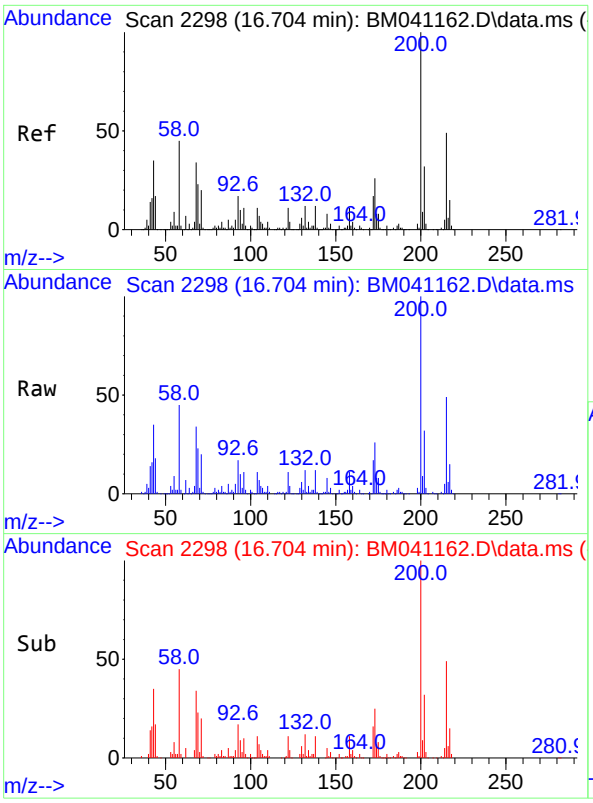


#68
Hexachlorobenzene
Concen: 40.475 ng
RT: 16.527 min Scan# 2268
Delta R.T. 0.000 min
Lab File: BM041162.D
Acq: 28 Jul 2023 12:44

Tgt Ion:284 Resp: 371831

Ion	Ratio	Lower	Upper
284	100		
142	35.0	28.0	42.0
249	29.6	23.7	35.5

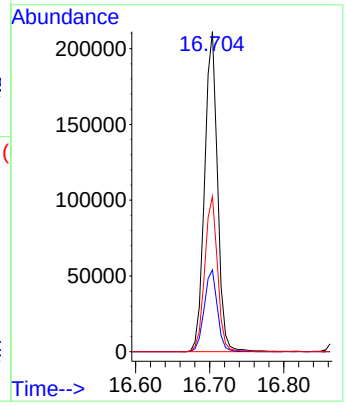




#69
Atrazine
Concen: 41.489 ng
RT: 16.704 min Scan# 2
Delta R.T. 0.000 min
Lab File: BM041162.D
Acq: 28 Jul 2023 12:44

Tgt Ion:200 Resp: 25533

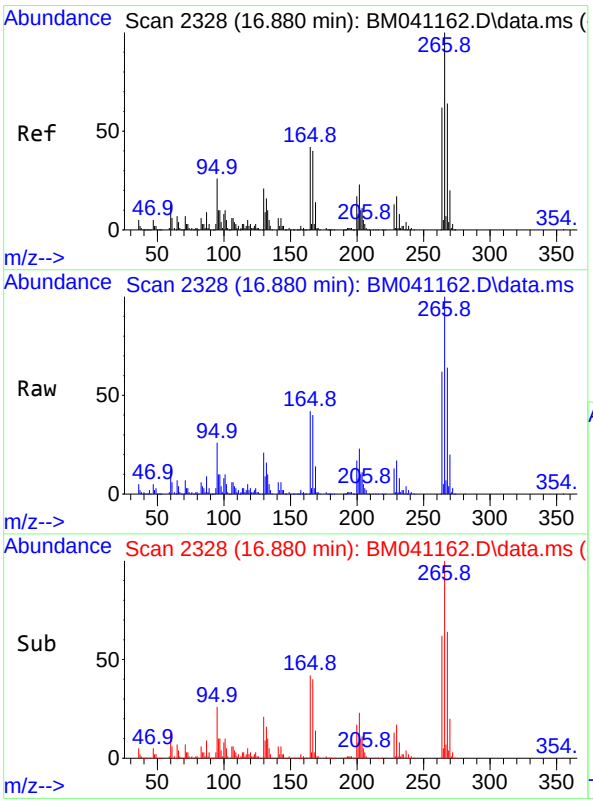
Ion	Ratio	Lower	Upper
200	100		
173	25.6	5.6	45.6
215	48.5	28.5	68.5



Instrument :
BNA_M
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

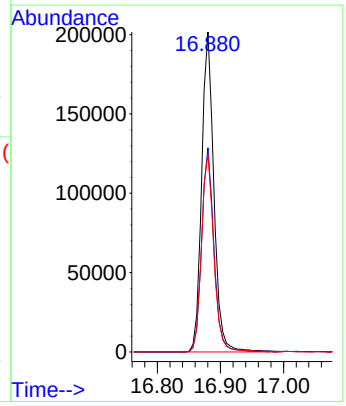
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

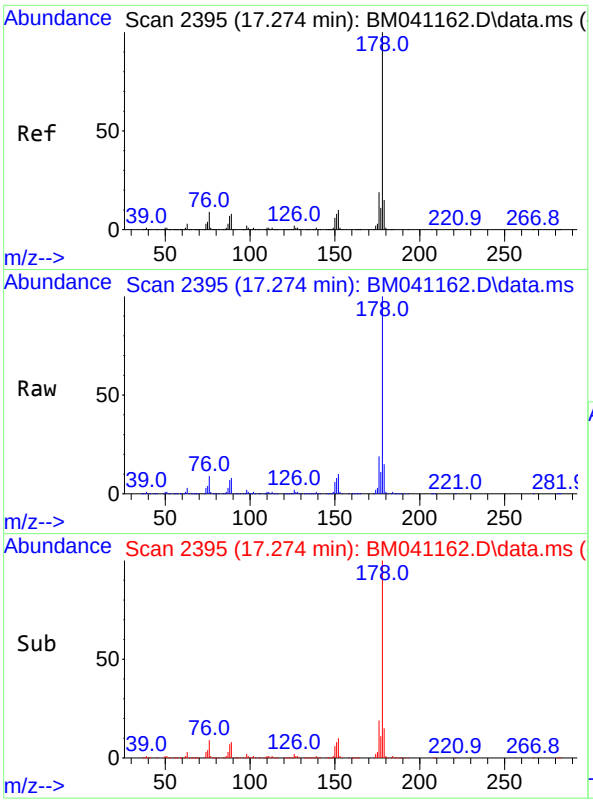


#70
Pentachlorophenol
Concen: 42.560 ng
RT: 16.880 min Scan# 2328
Delta R.T. 0.000 min
Lab File: BM041162.D
Acq: 28 Jul 2023 12:44

Tgt Ion:266 Resp: 270743

Ion	Ratio	Lower	Upper
266	100		
268	63.8	51.0	76.6
264	61.8	49.4	74.2





#71
Phenanthrene
Concen: 40.545 ng
RT: 17.274 min Scan# 2
Delta R.T. 0.000 min
Lab File: BM041162.D
Acq: 28 Jul 2023 12:44

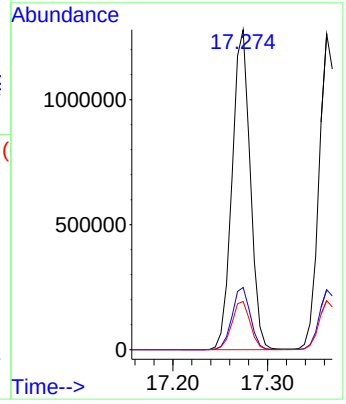
Tgt Ion:178 Resp: 169746

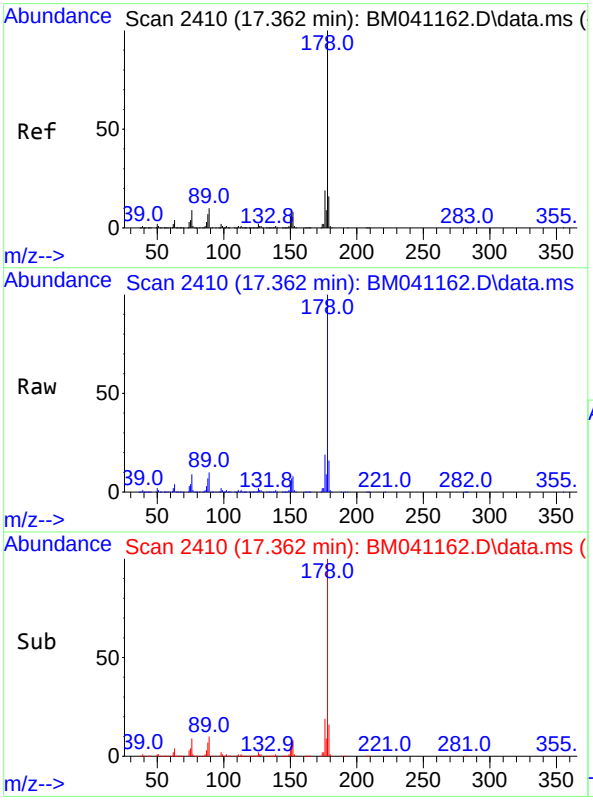
Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.6	23.4
179	15.1	12.1	18.1

Instrument :
BNA_M
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

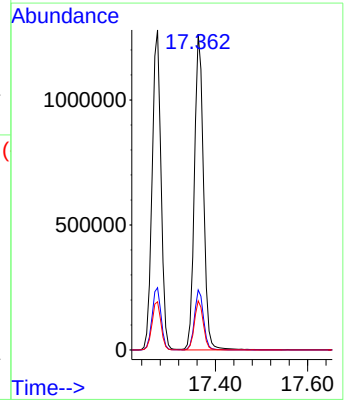


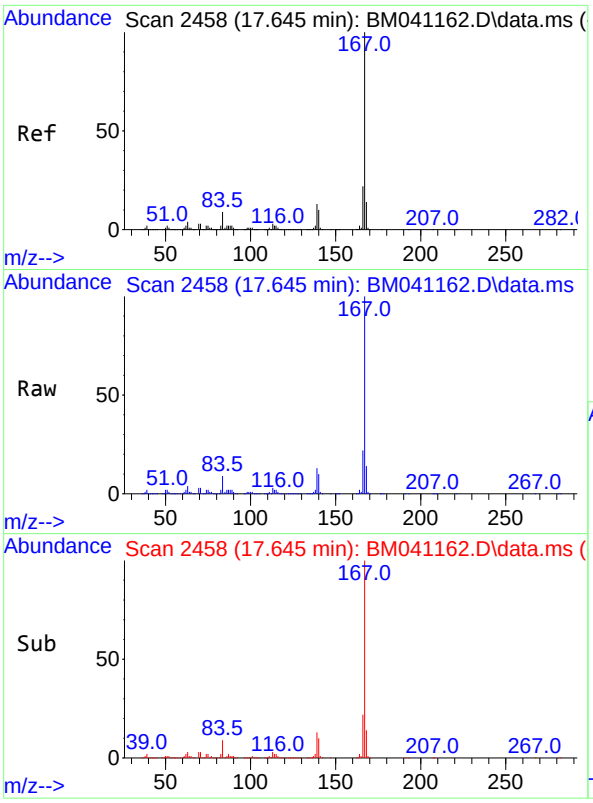


#72
Anthracene
Concen: 41.578 ng
RT: 17.362 min Scan# 2410
Delta R.T. 0.000 min
Lab File: BM041162.D
Acq: 28 Jul 2023 12:44

Tgt Ion:178 Resp: 1721602

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.2	22.8
179	15.5	12.4	18.6

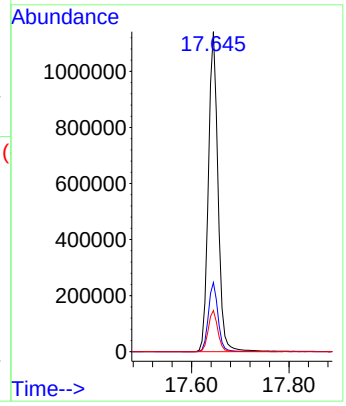




#73
Carbazole
Concen: 41.788 ng
RT: 17.645 min Scan# 24
Delta R.T. -0.000 min
Lab File: BM041162.D
Acq: 28 Jul 2023 12:44

Tgt Ion:167 Resp: 156607

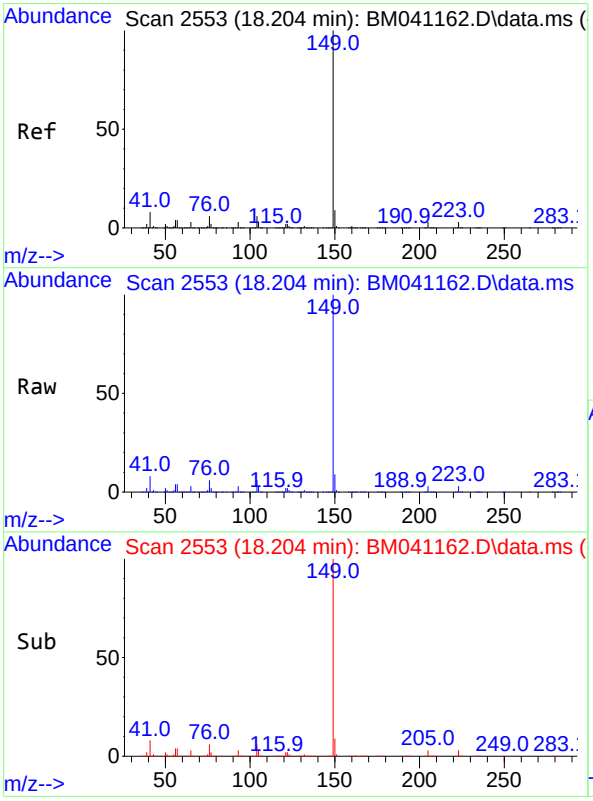
Ion	Ratio	Lower	Upper
167	100		
166	21.6	17.3	25.9
139	12.9	10.3	15.5



Instrument :
BNA_M
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

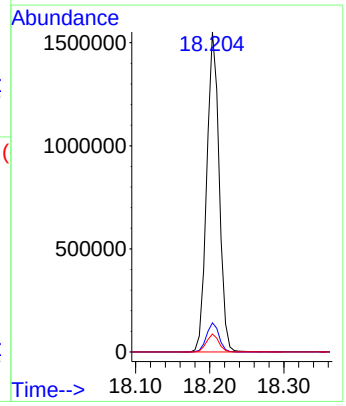
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

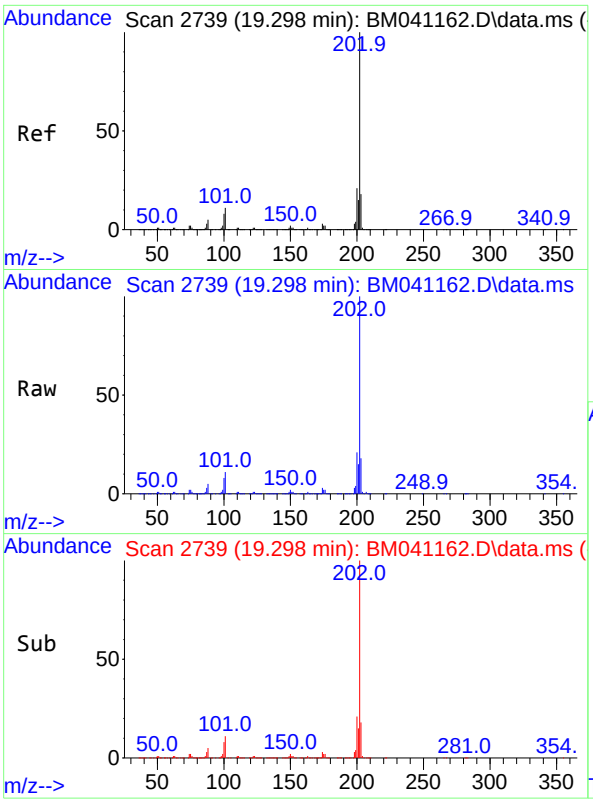


#74
Di-n-butylphthalate
Concen: 42.569 ng
RT: 18.204 min Scan# 2553
Delta R.T. 0.000 min
Lab File: BM041162.D
Acq: 28 Jul 2023 12:44

Tgt Ion:149 Resp: 1802744

Ion	Ratio	Lower	Upper
149	100		
150	9.1	7.3	10.9
104	5.6	4.5	6.7





#75
Fluoranthene
Concen: 41.185 ng
RT: 19.298 min Scan# 2
Delta R.T. 0.000 min
Lab File: BM041162.D
Acq: 28 Jul 2023 12:44

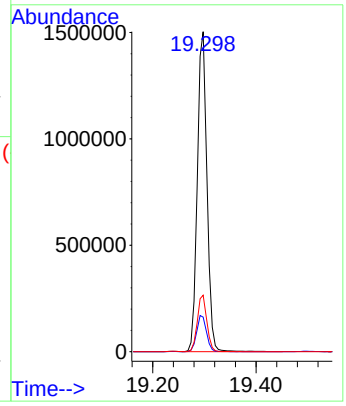
Tgt Ion:202 Resp: 193716

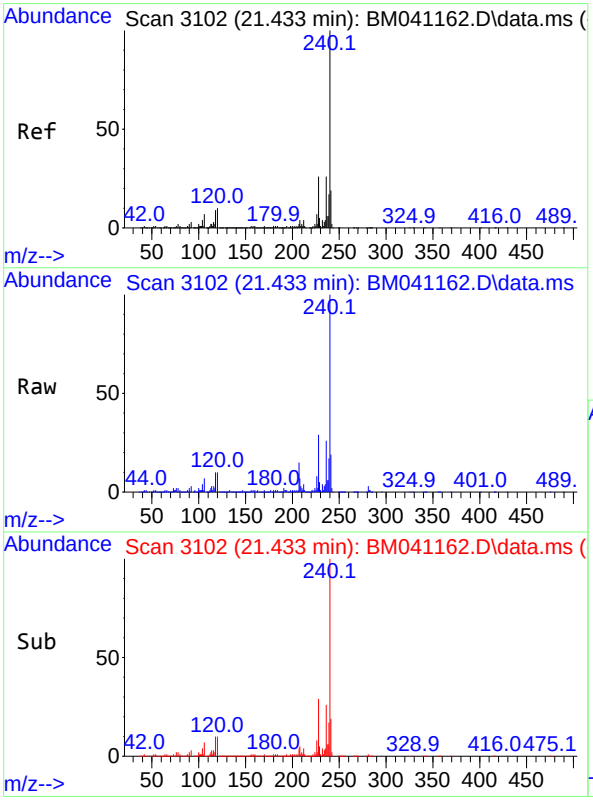
Ion	Ratio	Lower	Upper
202	100		
101	10.8	0.0	30.8
203	17.6	0.0	37.6

Instrument :
BNA_M
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

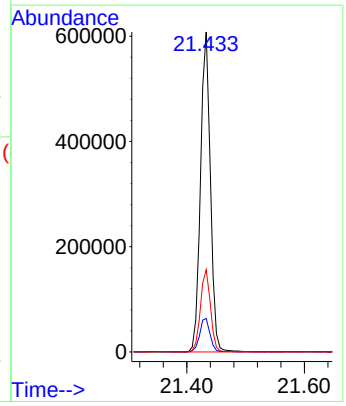


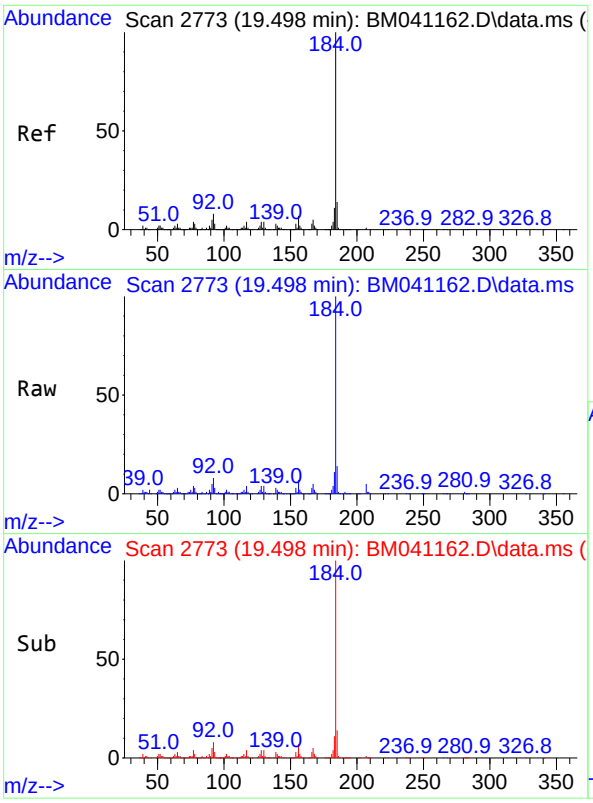


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.433 min Scan# 3102
Delta R.T. 0.000 min
Lab File: BM041162.D
Acq: 28 Jul 2023 12:44

Tgt Ion:240 Resp: 710612

Ion	Ratio	Lower	Upper
240	100		
120	10.4	8.3	12.5
236	25.7	20.6	30.8

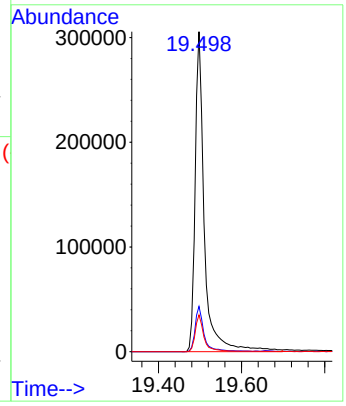




#77
Benzidine
Concen: 48.411 ng
RT: 19.498 min Scan# 2
Delta R.T. -0.000 min
Lab File: BM041162.D
Acq: 28 Jul 2023 12:44

Tgt Ion:184 Resp: 47103

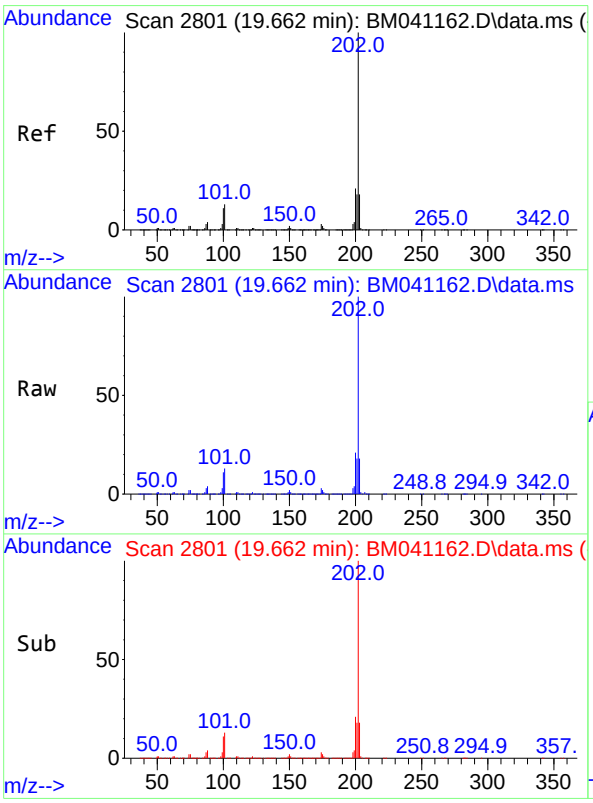
Ion	Ratio	Lower	Upper
184	100		
185	14.2	11.4	17.0
183	11.5	9.2	13.8



Instrument :
BNA_M
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

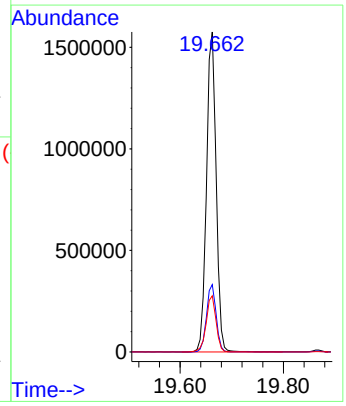
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

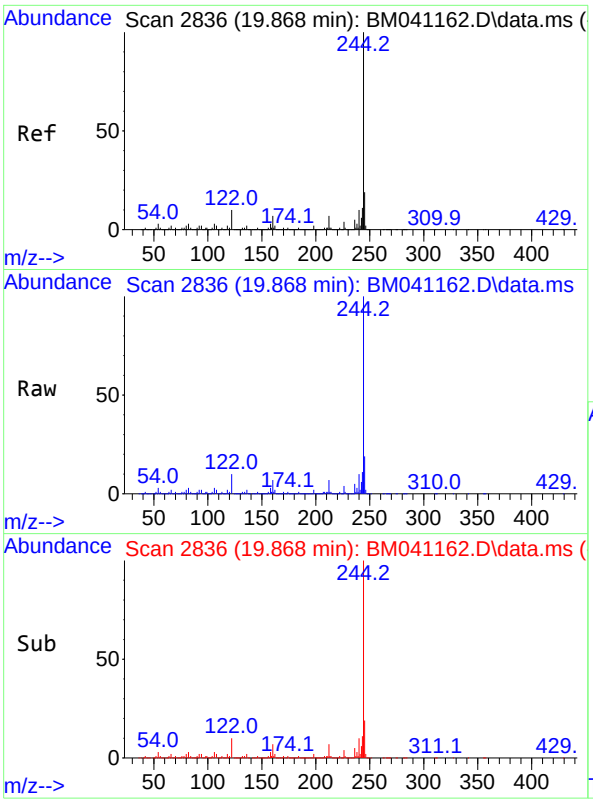


#78
Pyrene
Concen: 40.961 ng
RT: 19.662 min Scan# 2801
Delta R.T. 0.000 min
Lab File: BM041162.D
Acq: 28 Jul 2023 12:44

Tgt Ion:202 Resp: 2035514

Ion	Ratio	Lower	Upper
202	100		
200	21.1	16.9	25.3
203	17.6	14.1	21.1

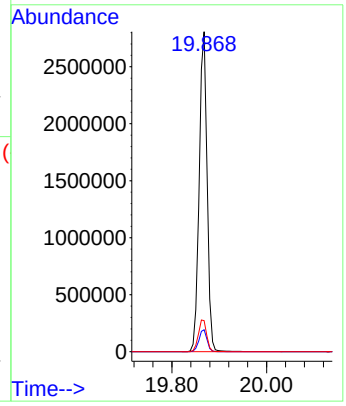




#79
Terphenyl-d14
Concen: 82.854 ng
RT: 19.868 min Scan# 2
Delta R.T. 0.000 min
Lab File: BM041162.D
Acq: 28 Jul 2023 12:44

Tgt Ion:244 Resp: 325637

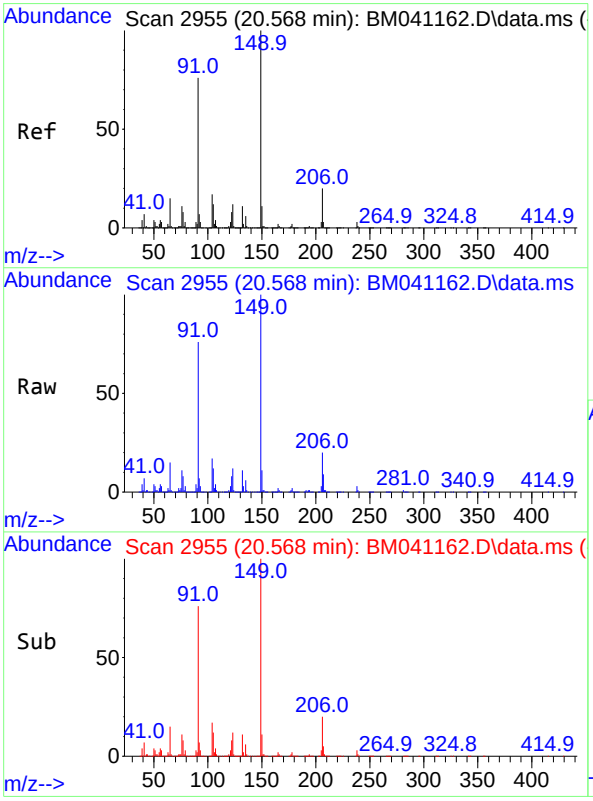
Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.4	8.2
122	9.7	7.8	11.6



Instrument :
BNA_M
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

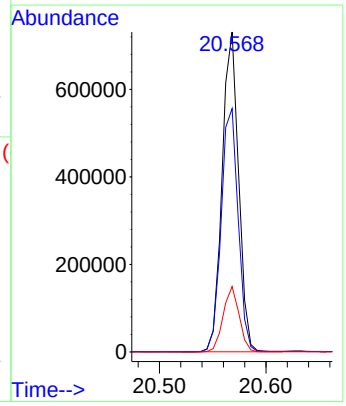
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

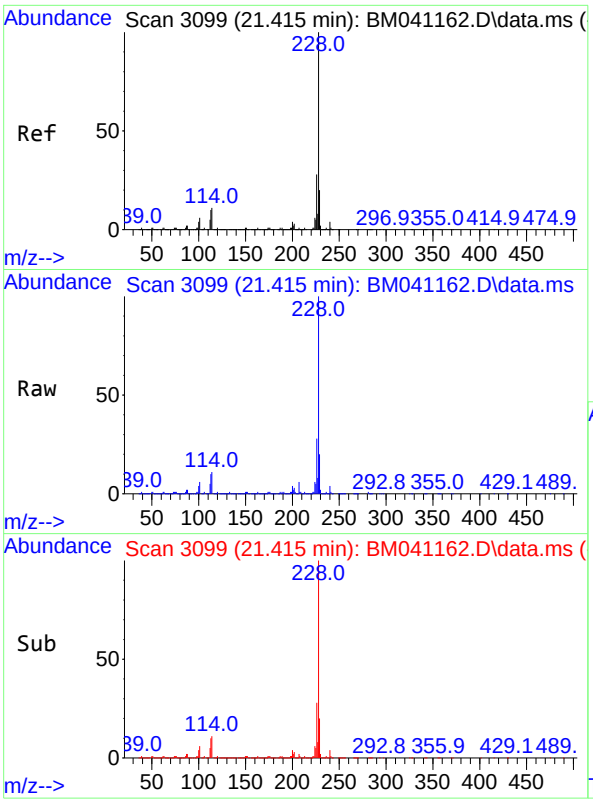


#80
Butylbenzylphthalate
Concen: 43.068 ng
RT: 20.568 min Scan# 2955
Delta R.T. 0.000 min
Lab File: BM041162.D
Acq: 28 Jul 2023 12:44

Tgt Ion:149 Resp: 781567

Ion	Ratio	Lower	Upper
149	100		
91	76.0	60.8	91.2
206	20.5	16.4	24.6

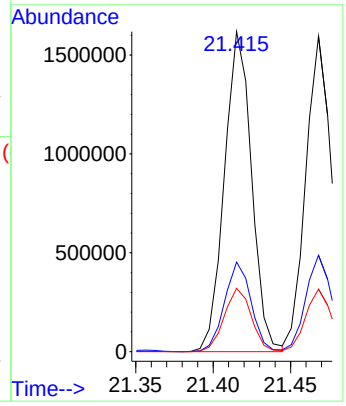




#81
Benzo(a)anthracene
Concen: 40.999 ng
RT: 21.415 min Scan# 3
Delta R.T. 0.000 min
Lab File: BM041162.D
Acq: 28 Jul 2023 12:44

Tgt Ion:228 Resp: 197506

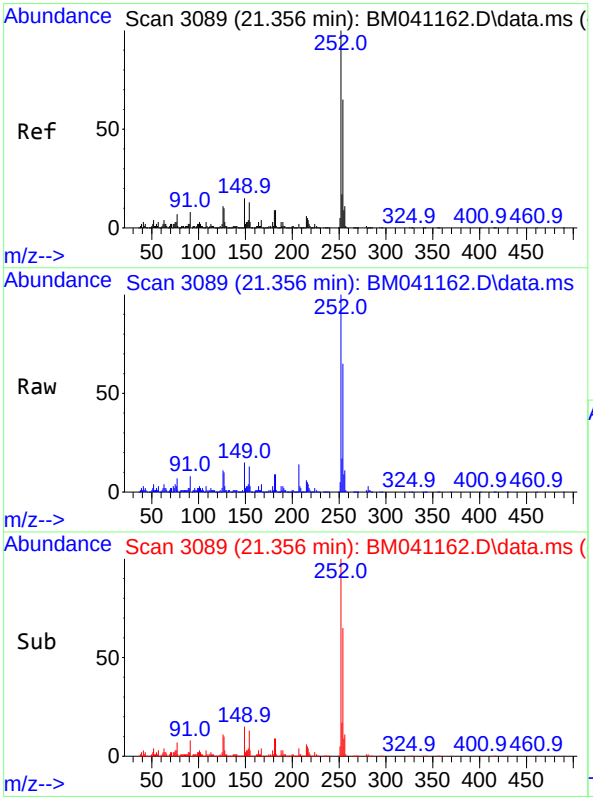
Ion	Ratio	Lower	Upper
228	100		
226	28.0	22.4	33.6
229	19.8	15.8	23.8



Instrument :
BNA_M
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

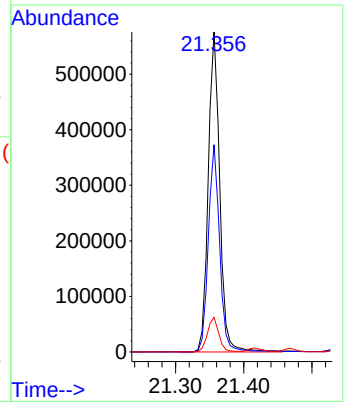
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

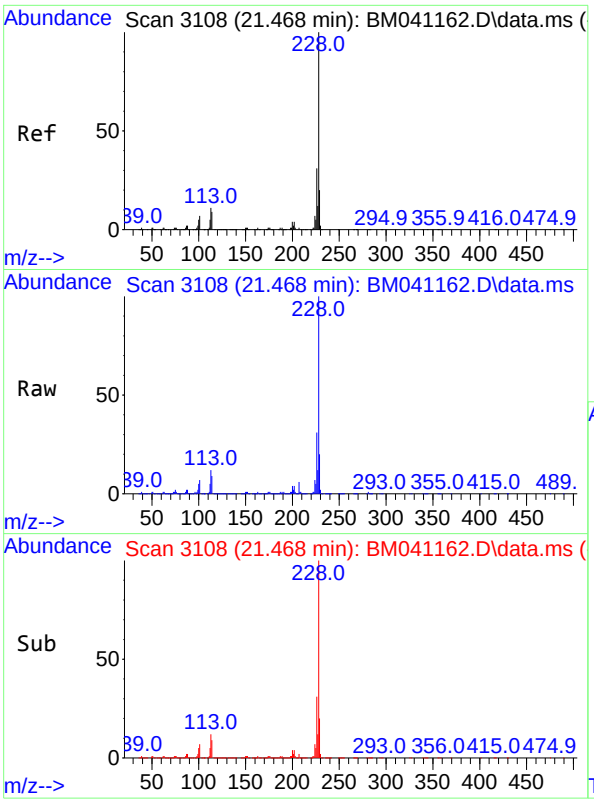


#82
3,3'-Dichlorobenzidine
Concen: 43.008 ng
RT: 21.356 min Scan# 3089
Delta R.T. 0.000 min
Lab File: BM041162.D
Acq: 28 Jul 2023 12:44

Tgt Ion:252 Resp: 676072

Ion	Ratio	Lower	Upper
252	100		
254	64.7	51.8	77.6
126	10.8	8.6	13.0

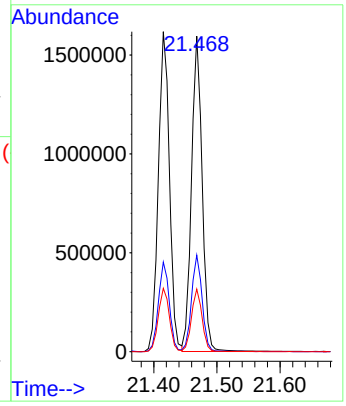




#83
Chrysene
Concen: 40.319 ng
RT: 21.468 min Scan# 3
Delta R.T. 0.000 min
Lab File: BM041162.D
Acq: 28 Jul 2023 12:44

Tgt Ion:228 Resp: 187867

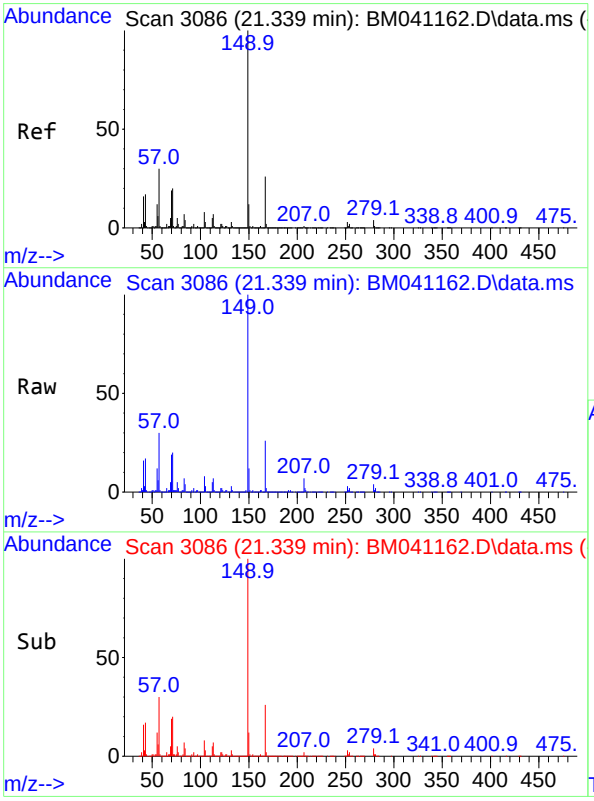
Ion	Ratio	Lower	Upper
228	100		
226	30.6	24.5	36.7
229	19.8	15.8	23.8



Instrument :
BNA_M
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

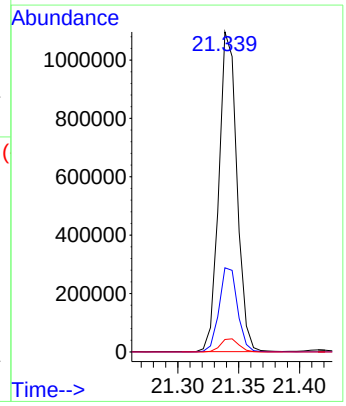
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

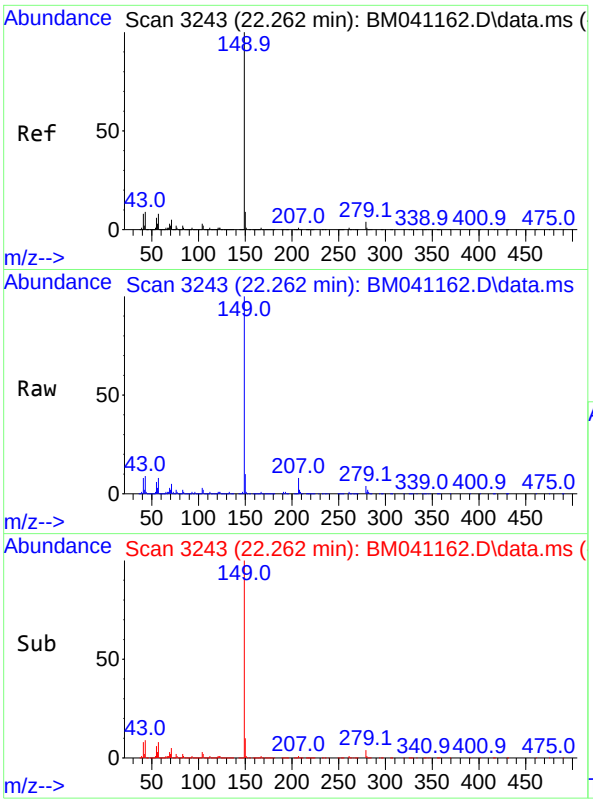


#84
Bis(2-ethylhexyl)phthalate
Concen: 39.630 ng
RT: 21.339 min Scan# 3086
Delta R.T. -0.000 min
Lab File: BM041162.D
Acq: 28 Jul 2023 12:44

Tgt Ion:149 Resp: 1128615

Ion	Ratio	Lower	Upper
149	100		
167	26.3	21.0	31.6
279	3.9	3.1	4.7

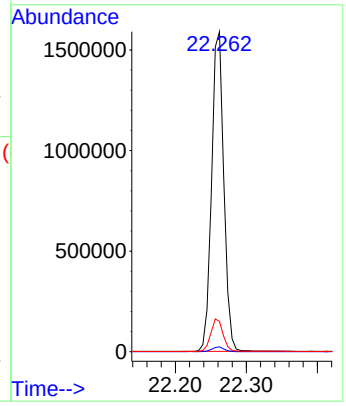




#85
Di-n-octyl phthalate
Concen: 41.379 ng
RT: 22.262 min Scan# 3
Delta R.T. 0.000 min
Lab File: BM041162.D
Acq: 28 Jul 2023 12:44

Tgt Ion:149 Resp: 189781

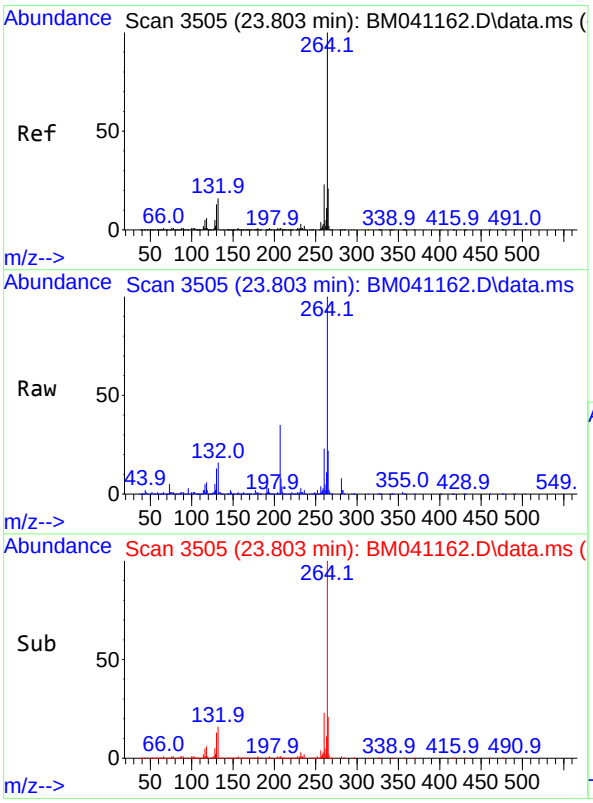
Ion	Ratio	Lower	Upper
149	100		
167	1.5	1.2	1.8
43	10.4	8.3	12.5



Instrument :
BNA_M
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

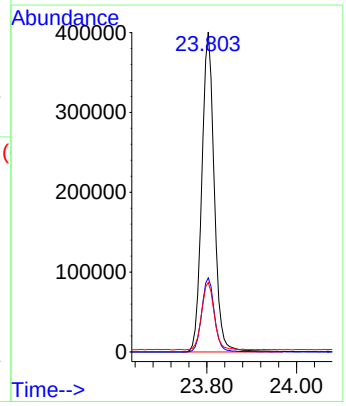
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

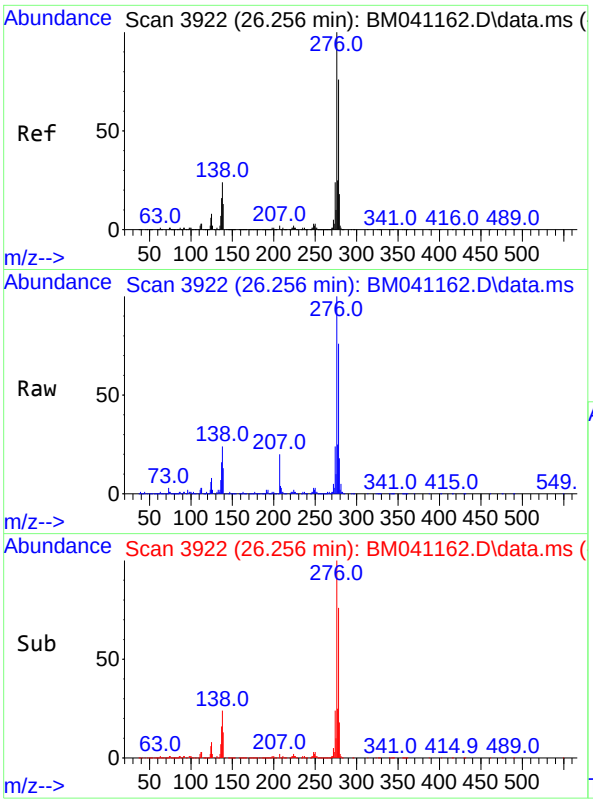


#86
Perylene-d12
Concen: 20.000 ng
RT: 23.803 min Scan# 3505
Delta R.T. 0.000 min
Lab File: BM041162.D
Acq: 28 Jul 2023 12:44

Tgt Ion:264 Resp: 769838

Ion	Ratio	Lower	Upper
264	100		
260	23.1	18.5	27.7
265	21.7	17.4	26.0

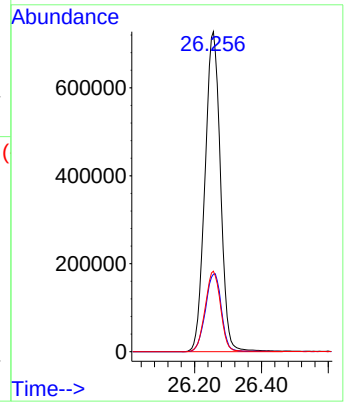




#87
Indeno(1,2,3-cd)pyrene
Concen: 41.332 ng
RT: 26.256 min Scan# 3
Delta R.T. 0.000 min
Lab File: BM041162.D
Acq: 28 Jul 2023 12:44

Tgt Ion:276 Resp: 233937

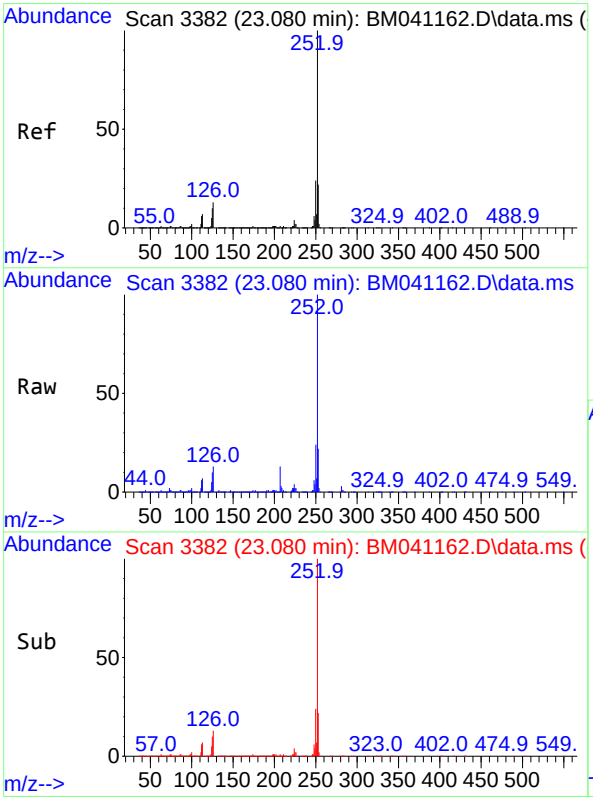
Ion	Ratio	Lower	Upper
276	100		
138	25.0	20.0	30.0
277	25.1	20.1	30.1



Instrument :
BNA_M
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

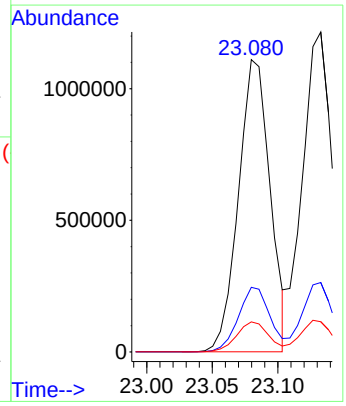
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

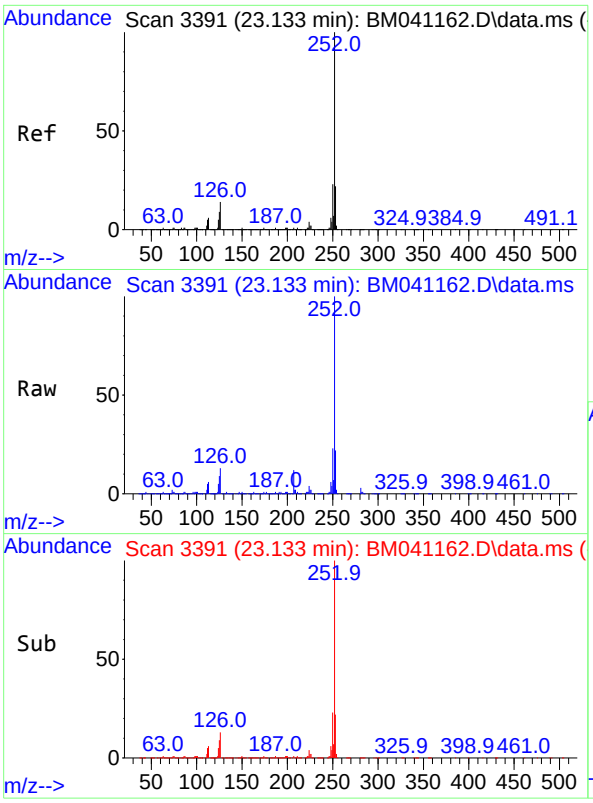


#88
Benzo(b)fluoranthene
Concen: 40.760 ng
RT: 23.080 min Scan# 3382
Delta R.T. 0.000 min
Lab File: BM041162.D
Acq: 28 Jul 2023 12:44

Tgt Ion:252 Resp: 1864086

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.7	26.5
125	10.3	8.2	12.4

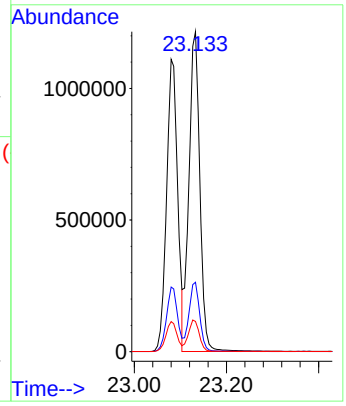




#89
Benzo(k)fluoranthene
Concen: 42.481 ng
RT: 23.133 min Scan# 3
Delta R.T. 0.000 min
Lab File: BM041162.D
Acq: 28 Jul 2023 12:44

Tgt Ion:252 Resp: 198730

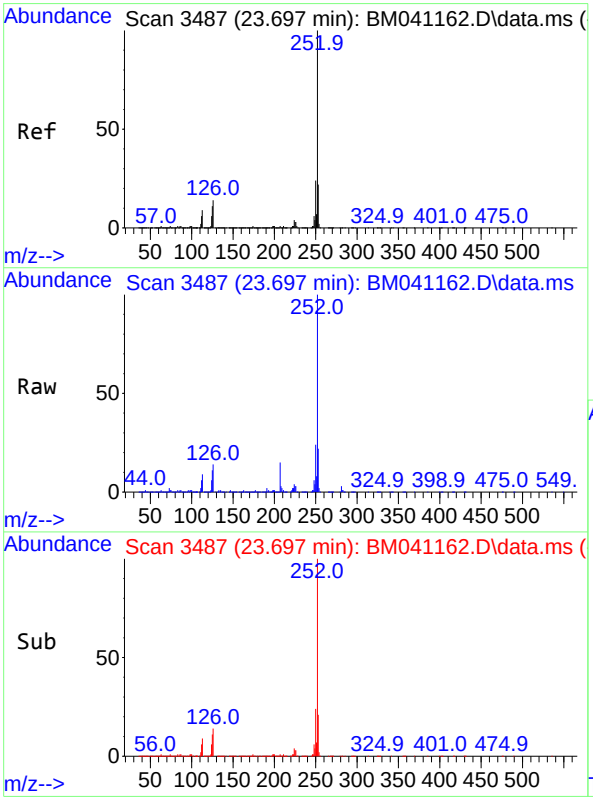
Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.4	26.0
125	9.5	7.6	11.4



Instrument :
BNA_M
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

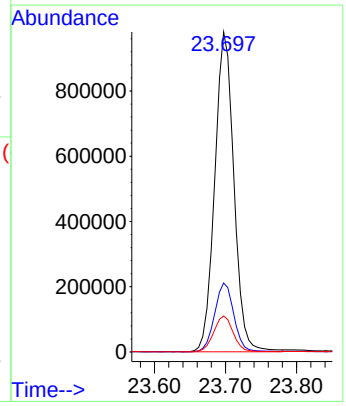
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

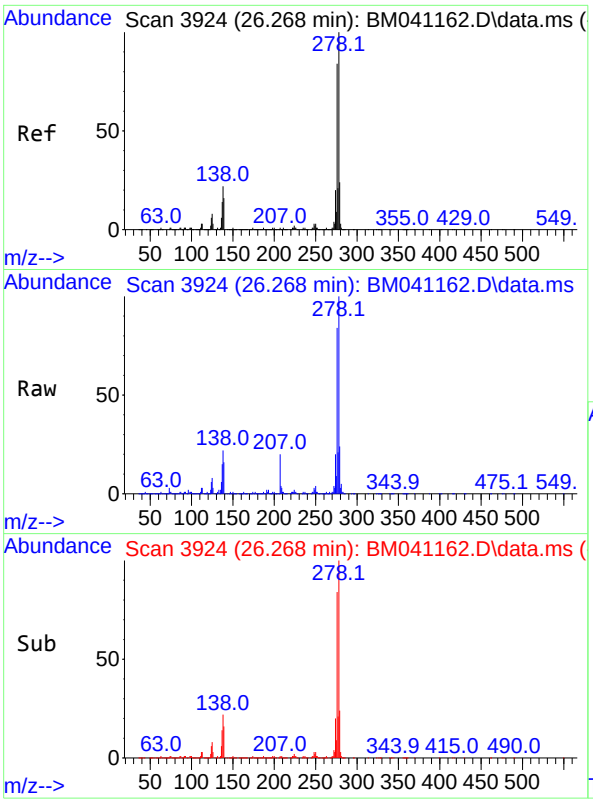


#90
Benzo(a)pyrene
Concen: 41.657 ng
RT: 23.697 min Scan# 3487
Delta R.T. 0.000 min
Lab File: BM041162.D
Acq: 28 Jul 2023 12:44

Tgt Ion:252 Resp: 1830554

Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.3	25.9
125	11.2	9.0	13.4

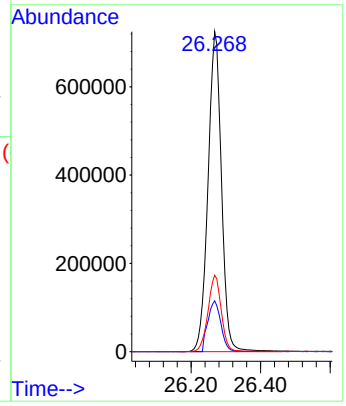




#91
Dibenzo(a,h)anthracene
Concen: 41.278 ng
RT: 26.268 min Scan# 3
Delta R.T. 0.000 min
Lab File: BM041162.D
Acq: 28 Jul 2023 12:44

Tgt Ion:278 Resp: 194869

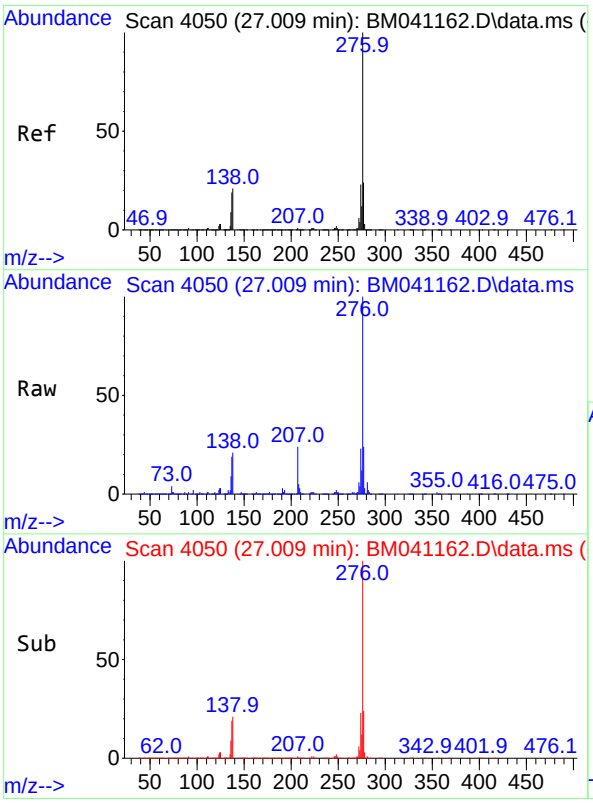
Ion	Ratio	Lower	Upper
278	100		
139	15.9	12.7	19.1
279	23.9	19.1	28.7



Instrument :
BNA_M
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

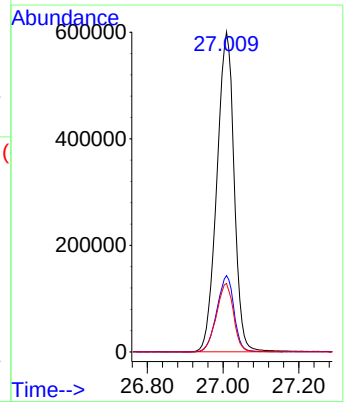
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023



#92
Benzo(g,h,i)perylene
Concen: 41.116 ng
RT: 27.009 min Scan# 4050
Delta R.T. 0.000 min
Lab File: BM041162.D
Acq: 28 Jul 2023 12:44

Tgt Ion:276 Resp: 1899260

Ion	Ratio	Lower	Upper
276	100		
277	23.9	19.1	28.7
138	21.4	17.1	25.7



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM072823\
Data File : BM041163.D
Acq On : 28 Jul 2023 13:22
Operator : MA/JU
Sample : SSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 29 00:10:22 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 28 23:54:24 2023
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.804	152	211468	20.000	ng		0.00
21) Naphthalene-d8	10.616	136	754248	20.000	ng		0.00
39) Acenaphthene-d10	14.468	164	407604	20.000	ng		0.00
64) Phenanthrene-d10	17.227	188	816045	20.000	ng		0.00
76) Chrysene-d12	21.433	240	771285	20.000	ng		0.00
86) Perylene-d12	23.803	264	844032	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.375	112	1379661	97.510	ng		0.00
7) Phenol-d6	6.987	99	1773939	96.723	ng		0.00
23) Nitrobenzene-d5	8.986	82	1618097	99.767	ng		0.00
42) 2,4,6-Tribromophenol	15.974	330	583682	101.240	ng		0.00
45) 2-Fluorobiphenyl	13.092	172	3163173	98.033	ng		0.00
79) Terphenyl-d14	19.868	244	4319481	101.258	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.269	88	287238	47.456	ng		99
3) Pyridine	3.675	79	786837m	49.595	ng		
4) n-Nitrosodimethylamine	3.593	42	351622	47.771	ng		93
6) Aniline	7.145	93	1039483	48.430	ng		99
8) 2-Chlorophenol	7.369	128	659372	47.736	ng		99
9) Benzaldehyde	6.957	77	420454m	43.400	ng		
10) Phenol	7.010	94	852296	48.115	ng		99
11) bis(2-Chloroethyl)ether	7.239	93	678382	47.311	ng		100
12) 1,3-Dichlorobenzene	7.692	146	715128	47.562	ng		99
13) 1,4-Dichlorobenzene	7.839	146	720599	47.682	ng		100
14) 1,2-Dichlorobenzene	8.157	146	687792	47.466	ng		99
15) Benzyl Alcohol	8.063	79	574901	49.636	ng		99
16) 2,2'-oxybis(1-Chloropr...	8.345	45	898394	47.025	ng		99
17) 2-Methylphenol	8.263	107	583110	48.183	ng		99
18) Hexachloroethane	8.875	117	271497	48.255	ng		98
19) n-Nitroso-di-n-propyla...	8.628	70	543904	48.825	ng		99
20) 3+4-Methylphenols	8.592	107	786983	48.636	ng		100
22) Acetophenone	8.645	105	982383	49.179	ng	#	100
24) Nitrobenzene	9.028	77	807344	49.223	ng		99
25) Isophorone	9.551	82	1378243	50.060	ng		99
26) 2-Nitrophenol	9.733	139	334611	52.187	ng		99
27) 2,4-Dimethylphenol	9.798	122	562573	49.862	ng		100
28) bis(2-Chloroethoxy)met...	10.039	93	842963	48.879	ng		99
29) 2,4-Dichlorophenol	10.269	162	571656	50.242	ng		100
30) 1,2,4-Trichlorobenzene	10.475	180	618022	49.163	ng		99
31) Naphthalene	10.663	128	1976416	48.288	ng		99
32) Benzoic acid	9.969	122	401966	47.520	ng		97
33) 4-Chloroaniline	10.792	127	813057	49.707	ng		99
34) Hexachlorobutadiene	10.939	225	372360	49.250	ng		100
35) Caprolactam	11.604	113	165653	50.328	ng		99
36) 4-Chloro-3-methylphenol	11.921	107	599326	50.045	ng		99
37) 2-Methylnaphthalene	12.280	142	1343393	48.684	ng		99
38) 1-Methylnaphthalene	12.504	142	1256007	48.633	ng		100
40) 1,2,4,5-Tetrachloroben...	12.651	216	656196	49.579	ng		99
41) Hexachlorocyclopentadiene	12.621	237	363713	51.943	ng		99
43) 2,4,6-Trichlorophenol	12.898	196	429480	50.628	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM072823\
Data File : BM041163.D
Acq On : 28 Jul 2023 13:22
Operator : MA/JU
Sample : SSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 29 00:10:22 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 28 23:54:24 2023
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.974	196	497856	50.706	ng	99
46) 1,1'-Biphenyl	13.304	154	1615502	48.889	ng	99
47) 2-Chloronaphthalene	13.345	162	1204182	48.806	ng	98
48) 2-Nitroaniline	13.568	65	414038	52.572	ng	99
49) Acenaphthylene	14.192	152	1966618	49.383	ng	100
50) Dimethylphthalate	13.945	163	1504915	49.083	ng	99
51) 2,6-Dinitrotoluene	14.068	165	323241	50.881	ng	98
52) Acenaphthene	14.539	154	1174990	48.976	ng	99
53) 3-Nitroaniline	14.398	138	352737	47.983	ng	97
54) 2,4-Dinitrophenol	14.610	184	192977	47.536	ng	97
55) Dibenzofuran	14.874	168	1900777	48.560	ng	99
56) 4-Nitrophenol	14.710	139	271332	51.247	ng	99
57) 2,4-Dinitrotoluene	14.862	165	434874	47.938	ng	96
58) Fluorene	15.527	166	1515403	49.075	ng	100
59) 2,3,4,6-Tetrachlorophenol	15.104	232	397478	49.992	ng	99
60) Diethylphthalate	15.304	149	1471664	49.634	ng	100
61) 4-Chlorophenyl-phenyle...	15.521	204	766887	49.560	ng	100
62) 4-Nitroaniline	15.568	138	328100	48.386	ng	99
63) Azobenzene	15.815	77	1640613	50.513	ng	99
65) 4,6-Dinitro-2-methylph...	15.621	198	257633	52.115	ng	100
66) n-Nitrosodiphenylamine	15.745	169	1253277	49.381	ng	99
67) 4-Bromophenyl-phenylether	16.415	248	448053	50.077	ng	96
68) Hexachlorobenzene	16.527	284	486746	48.924	ng	99
69) Atrazine	16.704	200	333840	50.088	ng	99
70) Pentachlorophenol	16.880	266	358525	52.041	ng	99
71) Phenanthrene	17.274	178	2208698	48.714	ng	99
72) Anthracene	17.362	178	2228300	49.692	ng	100
73) Carbazole	17.645	167	2042870	50.334	ng	100
74) Di-n-butylphthalate	18.203	149	2407938	52.503	ng	100
75) Fluoranthene	19.297	202	2556962	50.197	ng	100
77) Benzidine	19.497	184	553063	52.370	ng	100
78) Pyrene	19.662	202	2676907	49.630	ng	99
80) Butylbenzylphthalate	20.568	149	1060513	53.842	ng	99
81) Benzo(a)anthracene	21.415	228	2604368	49.809	ng	99
82) 3,3'-Dichlorobenzidine	21.356	252	883078	51.758	ng	100
83) Chrysene	21.474	228	2471218	48.863	ng	100
84) Bis(2-ethylhexyl)phtha...	21.344	149	1539184	49.143	ng	98
85) Di-n-octyl phthalate	22.262	149	2583591	51.900	ng	100
87) Indeno(1,2,3-cd)pyrene	26.262	276	3127712	50.403	ng	99
88) Benzo(b)fluoranthene	23.085	252	2515992	50.179	ng	99
89) Benzo(k)fluoranthene	23.133	252	2556296	49.841	ng	99
90) Benzo(a)pyrene	23.703	252	2455545	50.968	ng	99
91) Dibenzo(a,h)anthracene	26.273	278	2627829	50.771	ng	99
92) Benzo(g,h,i)perylene	27.015	276	2505399	49.470	ng	99

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

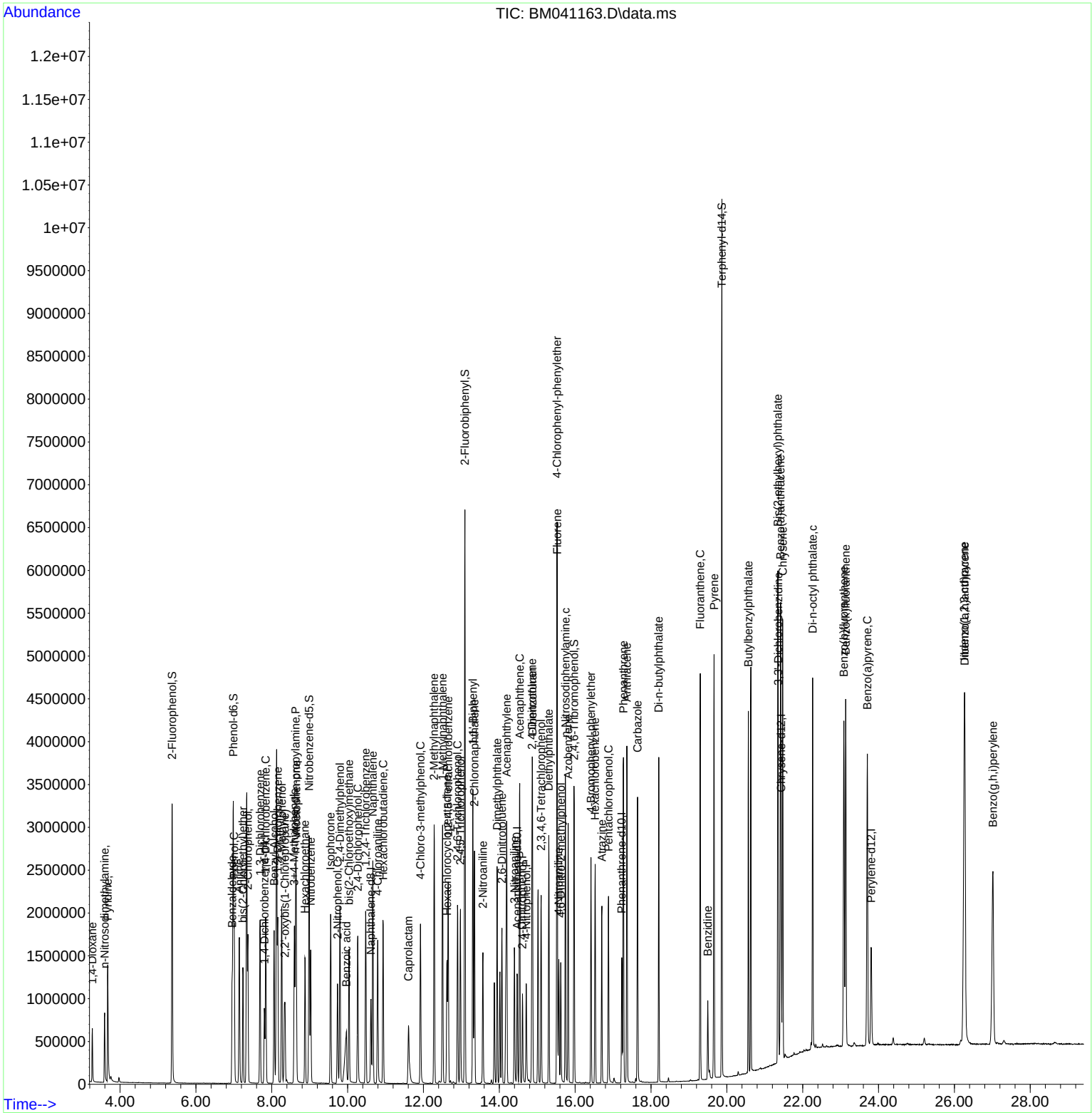
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM072823\
Data File : BM041163.D
Acq On : 28 Jul 2023 13:22
Operator : MA/JU
Sample : SSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

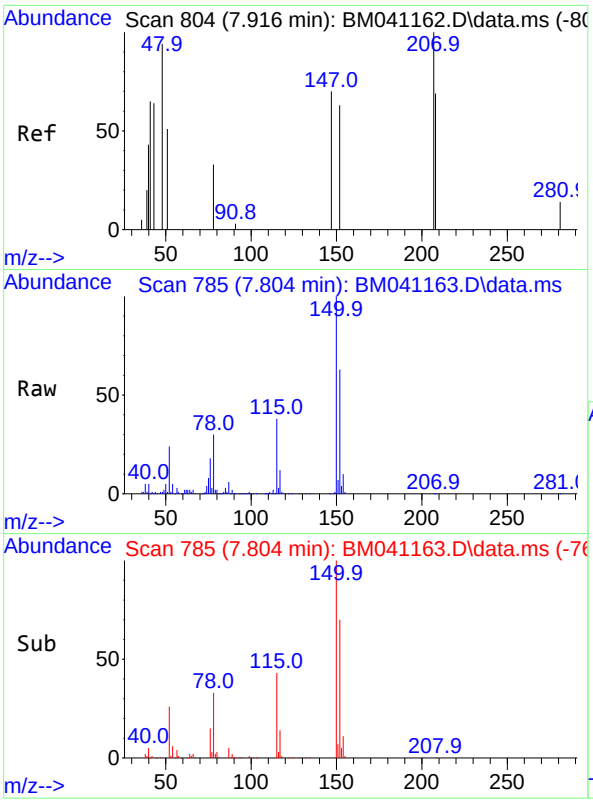
Quant Time: Jul 29 00:10:22 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 28 23:54:24 2023
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

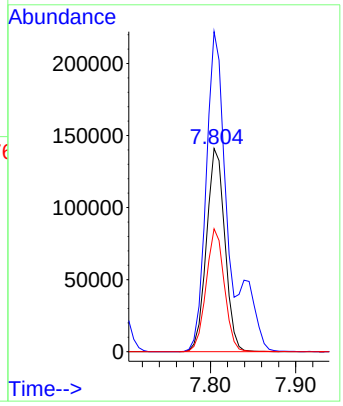




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.804 min Scan# 7
Delta R.T. 0.000 min
Lab File: BM041163.D
Acq: 28 Jul 2023 13:22

Tgt Ion:152 Resp: 21146

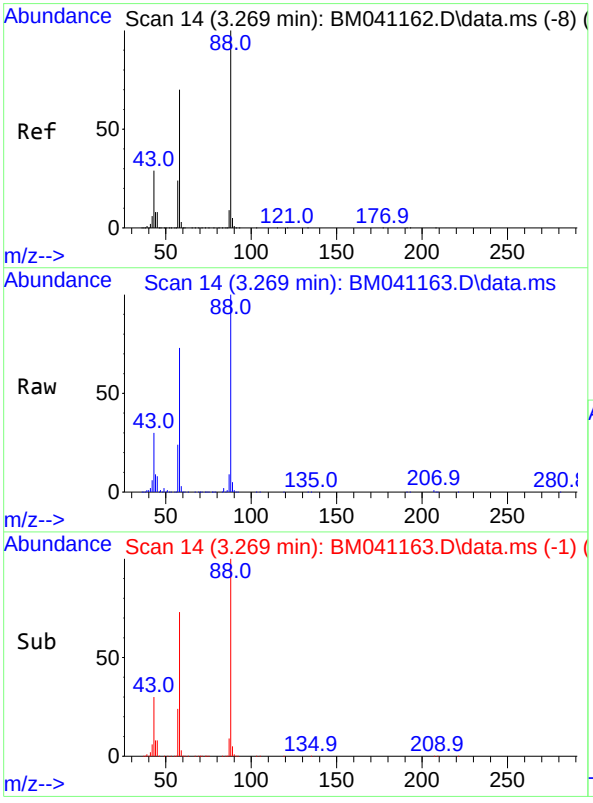
Ion	Ratio	Lower	Upper
152	100		
150	157.5	125.5	188.3
115	60.5	48.0	72.0



Instrument :
BNA_M
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

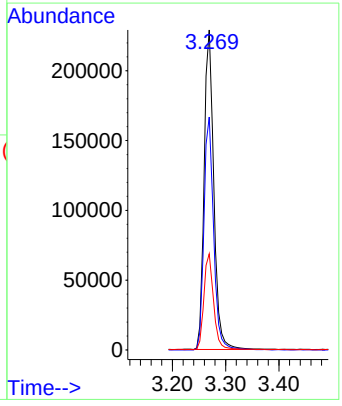
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

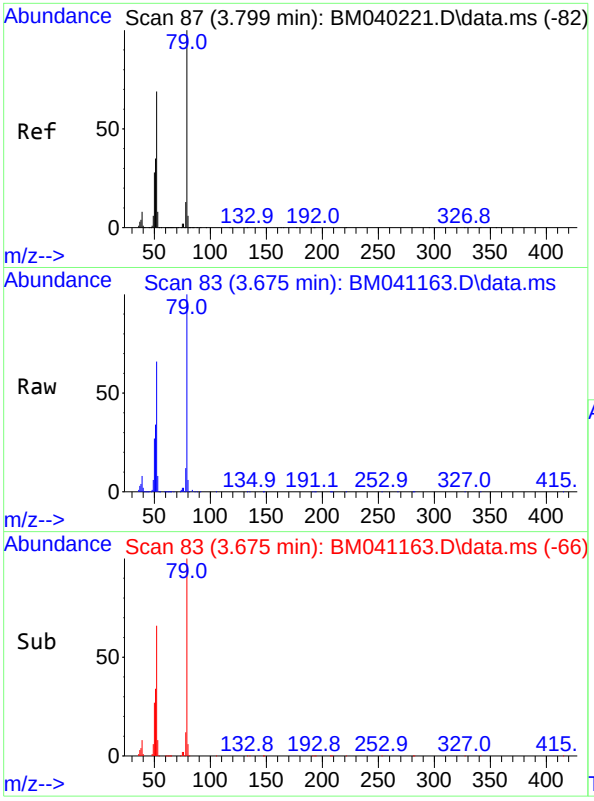


#2
1,4-Dioxane
Concen: 47.456 ng
RT: 3.269 min Scan# 14
Delta R.T. -0.000 min
Lab File: BM041163.D
Acq: 28 Jul 2023 13:22

Tgt Ion: 88 Resp: 287238

Ion	Ratio	Lower	Upper
88	100		
58	73.1	58.2	87.4
43	29.9	24.4	36.6

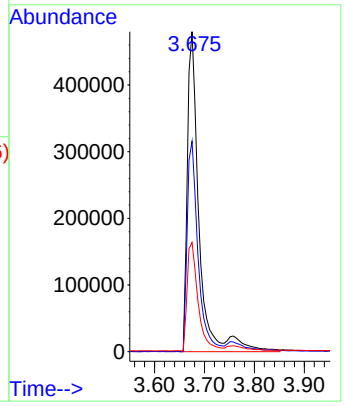




#3
Pyridine
Concen: 49.595 ng m
RT: 3.675 min Scan# 8
Delta R.T. -0.000 min
Lab File: BM041163.D
Acq: 28 Jul 2023 13:22

Tgt Ion: 79 Resp: 78683

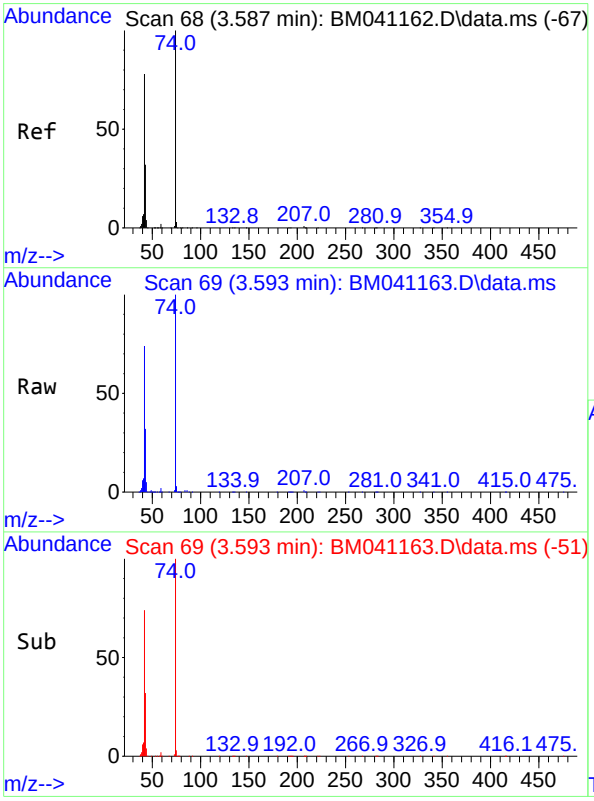
Ion	Ratio	Lower	Upper
79	100		
52	65.8	52.1	78.1
51	34.2	27.5	41.3



Instrument :
BNA_M
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

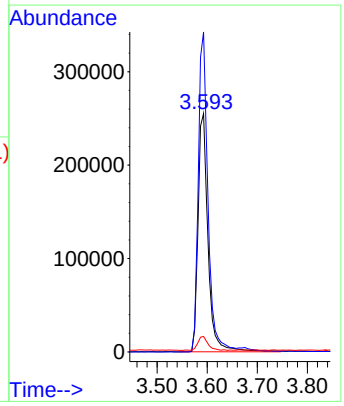
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

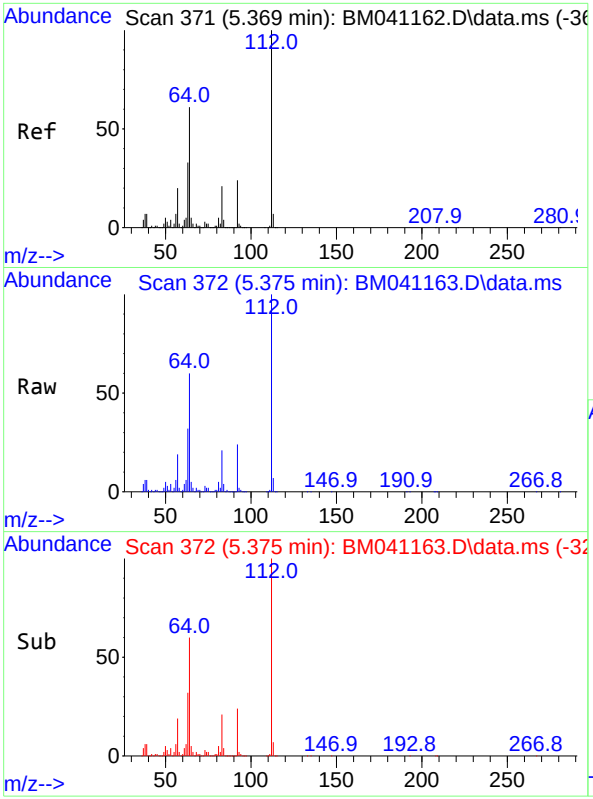


#4
n-Nitrosodimethylamine
Concen: 47.771 ng
RT: 3.593 min Scan# 69
Delta R.T. 0.006 min
Lab File: BM041163.D
Acq: 28 Jul 2023 13:22

Tgt Ion: 42 Resp: 351622

Ion	Ratio	Lower	Upper
42	100		
74	134.3	100.8	151.2
44	6.5	5.0	7.4

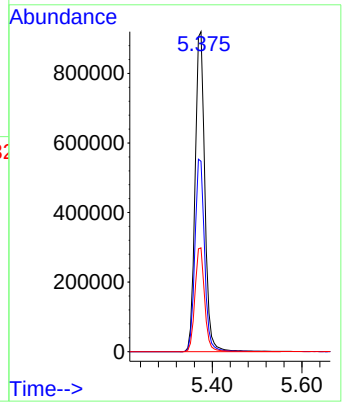




#5
2-Fluorophenol
Concen: 97.510 ng
RT: 5.375 min Scan# 3
Delta R.T. 0.006 min
Lab File: BM041163.D
Acq: 28 Jul 2023 13:22

Tgt Ion:112 Resp: 137966

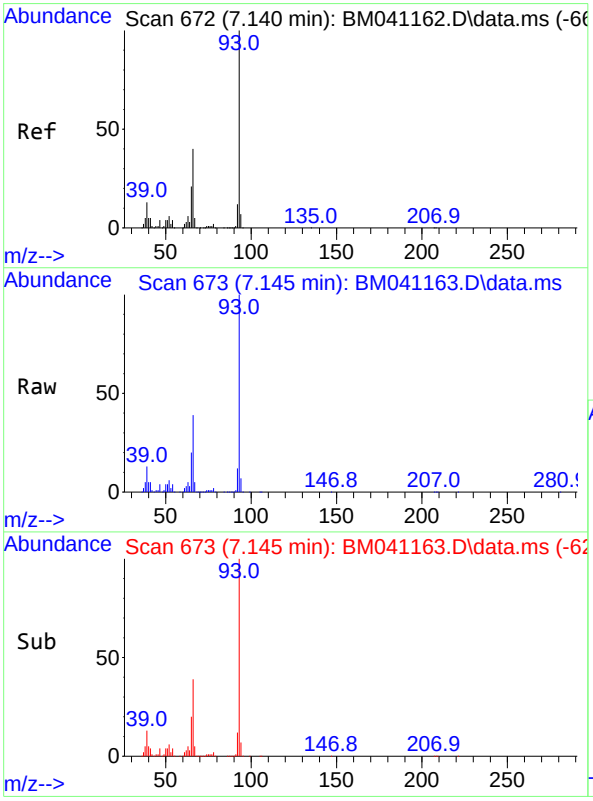
Ion	Ratio	Lower	Upper
112	100		
64	59.5	48.5	72.7
63	32.4	26.5	39.7



Instrument :
BNA_M
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

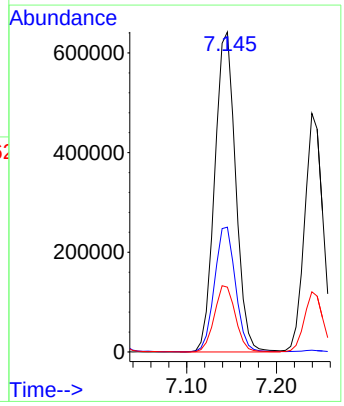
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

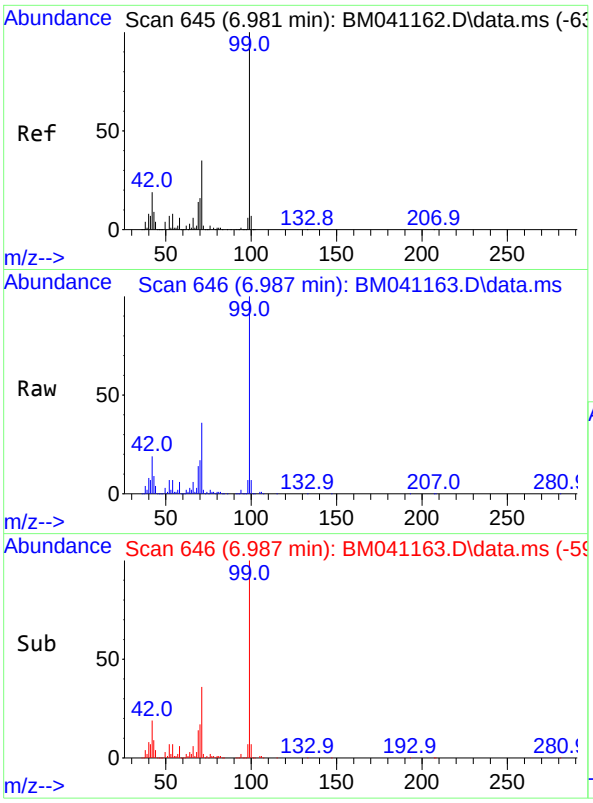


#6
Aniline
Concen: 48.430 ng
RT: 7.145 min Scan# 673
Delta R.T. 0.006 min
Lab File: BM041163.D
Acq: 28 Jul 2023 13:22

Tgt Ion: 93 Resp: 1039483

Ion	Ratio	Lower	Upper
93	100		
66	39.0	32.0	48.0
65	20.3	16.6	24.8

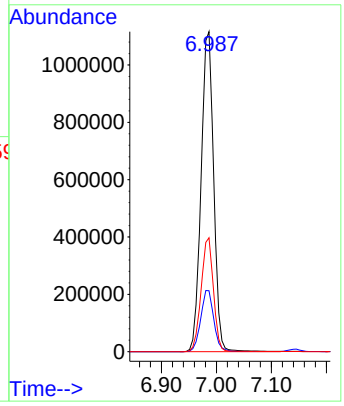




#7
Phenol-d6
Concen: 96.723 ng
RT: 6.987 min Scan# 64
Delta R.T. 0.006 min
Lab File: BM041163.D
Acq: 28 Jul 2023 13:22

Tgt Ion: 99 Resp: 177393

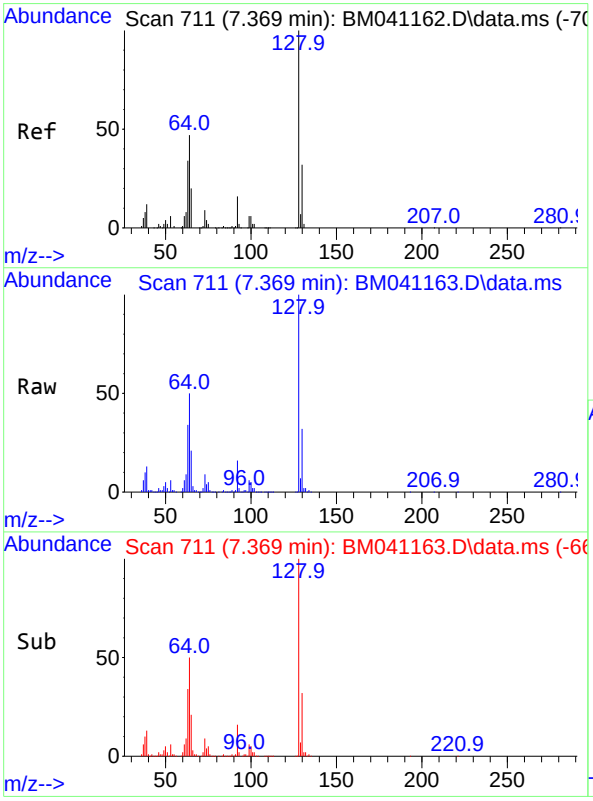
Ion	Ratio	Lower	Upper
99	100		
42	19.0	15.4	23.0
71	35.6	28.2	42.4



Instrument :
BNA_M
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

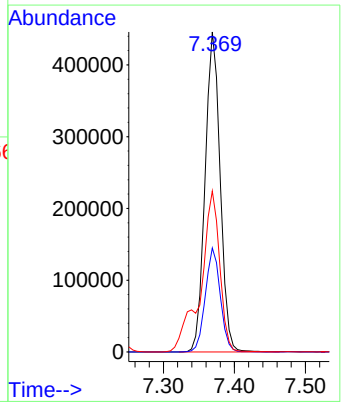
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

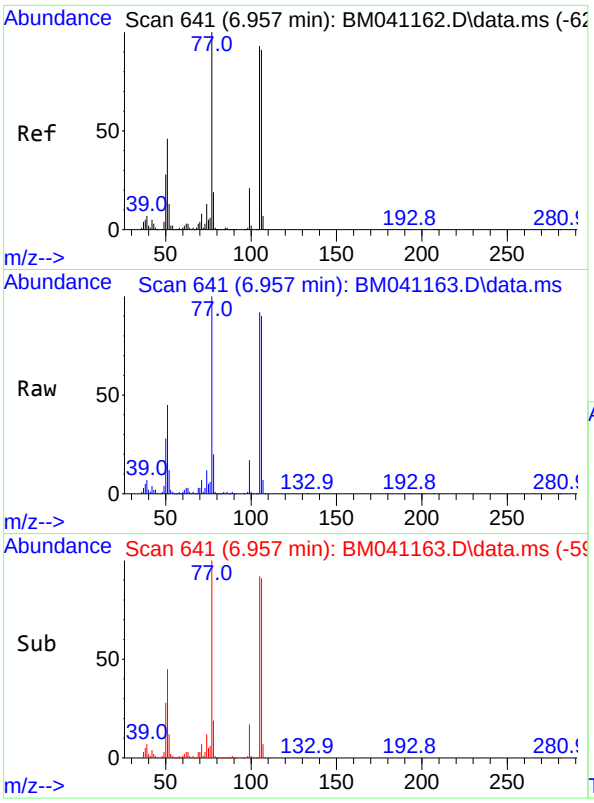


#8
2-Chlorophenol
Concen: 47.736 ng
RT: 7.369 min Scan# 711
Delta R.T. -0.000 min
Lab File: BM041163.D
Acq: 28 Jul 2023 13:22

Tgt Ion:128 Resp: 659372

Ion	Ratio	Lower	Upper
128	100		
130	32.5	12.3	52.3
64	50.3	29.3	69.3

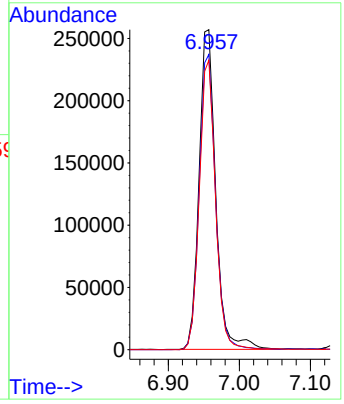




#9
Benzaldehyde
Concen: 43.400 ng m
RT: 6.957 min Scan# 64
Delta R.T. 0.000 min
Lab File: BM041163.D
Acq: 28 Jul 2023 13:22

Tgt Ion: 77 Resp: 42045

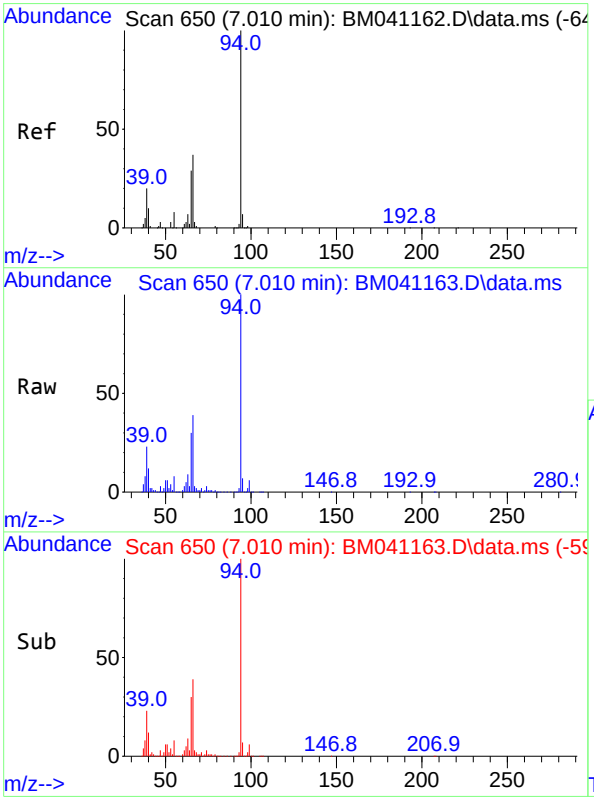
Ion	Ratio	Lower	Upper
77	100		
105	92.3	72.8	112.8
106	90.5	70.8	110.8



Instrument :
BNA_M
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

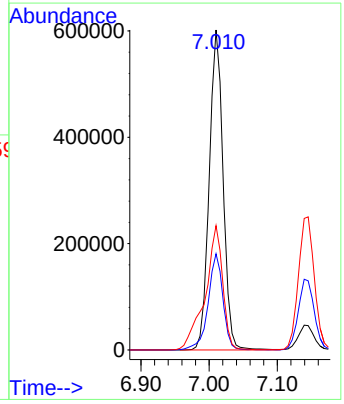
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

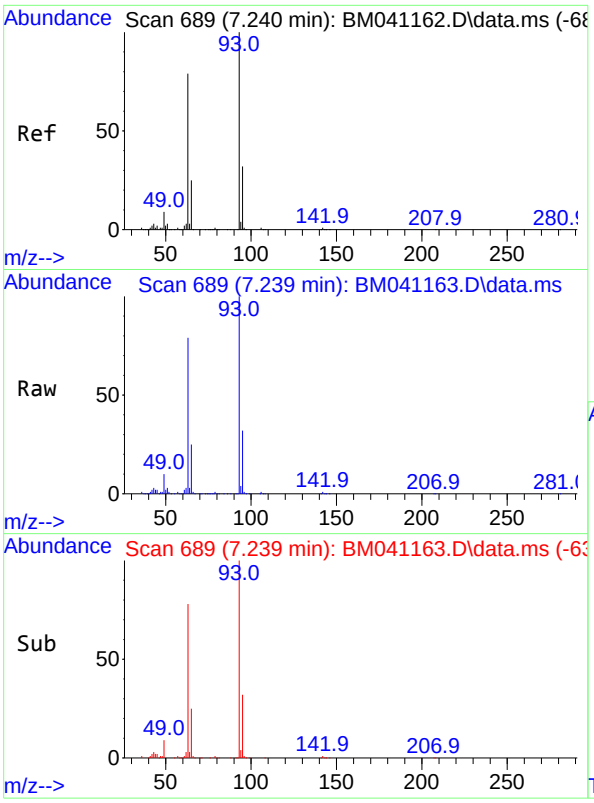


#10
Phenol
Concen: 48.115 ng
RT: 7.010 min Scan# 650
Delta R.T. -0.000 min
Lab File: BM041163.D
Acq: 28 Jul 2023 13:22

Tgt Ion: 94 Resp: 852296

Ion	Ratio	Lower	Upper
94	100		
65	30.1	9.5	49.5
66	38.9	18.0	58.0

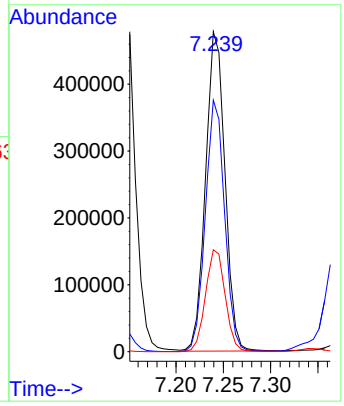




#11
bis(2-Chloroethyl)ether
Concen: 47.311 ng
RT: 7.239 min Scan# 6
Delta R.T. -0.000 min
Lab File: BM041163.D
Acq: 28 Jul 2023 13:22

Tgt Ion: 93 Resp: 67838

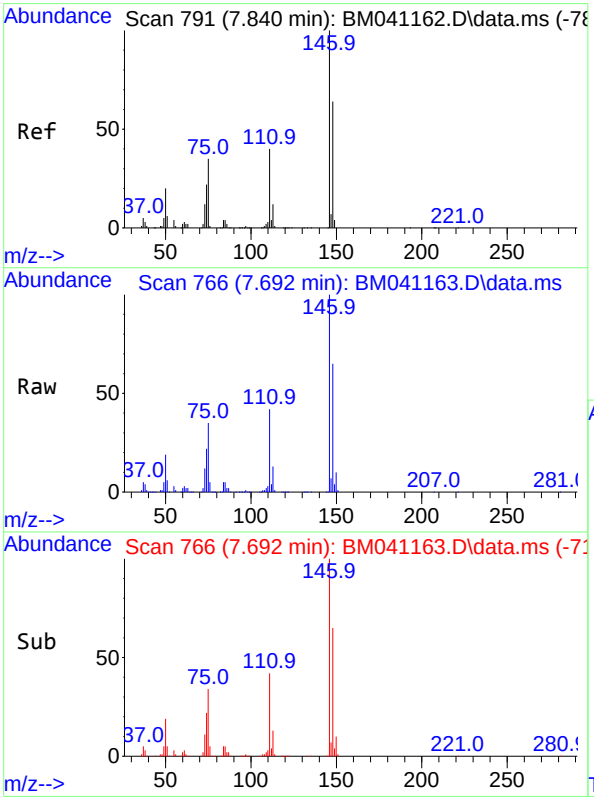
Ion	Ratio	Lower	Upper
93	100		
63	78.6	58.8	98.8
95	31.9	11.8	51.8



Instrument :
BNA_M
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

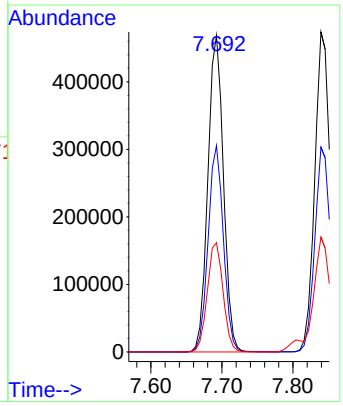
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

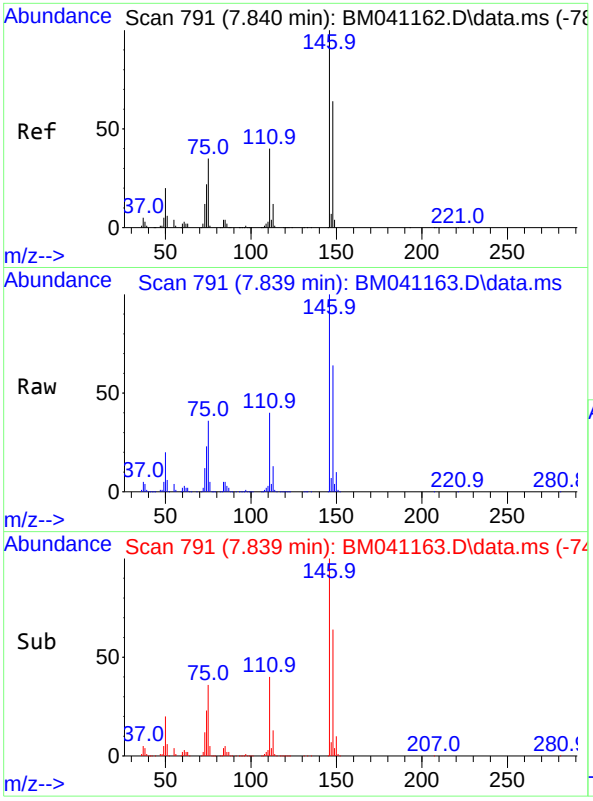


#12
1,3-Dichlorobenzene
Concen: 47.562 ng
RT: 7.692 min Scan# 766
Delta R.T. -0.000 min
Lab File: BM041163.D
Acq: 28 Jul 2023 13:22

Tgt Ion:146 Resp: 715128

Ion	Ratio	Lower	Upper
146	100		
148	65.2	51.9	77.9
75	34.5	28.3	42.5

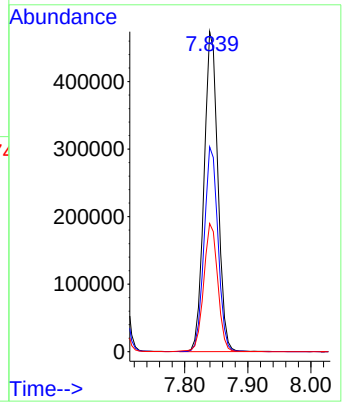




#13
1,4-Dichlorobenzene
Concen: 47.682 ng
RT: 7.839 min Scan# 7
Delta R.T. -0.000 min
Lab File: BM041163.D
Acq: 28 Jul 2023 13:22

Tgt Ion:146 Resp: 72059

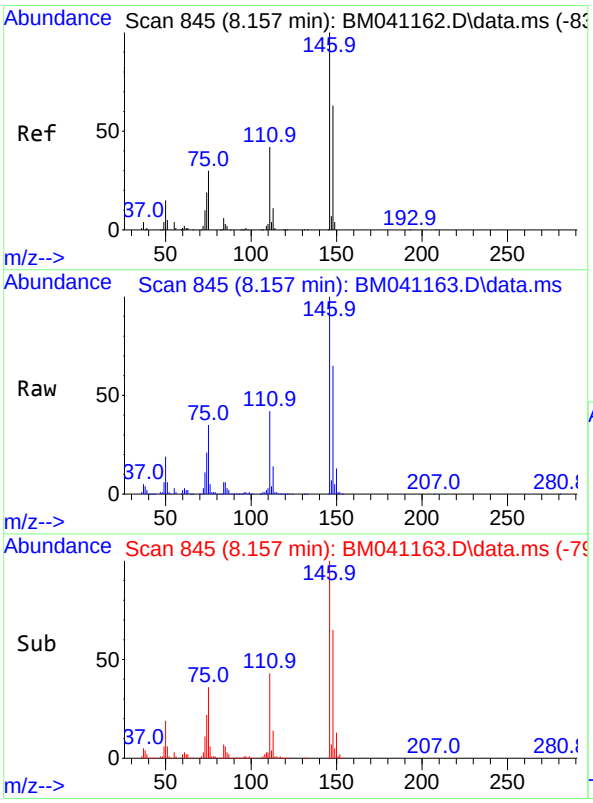
Ion	Ratio	Lower	Upper
146	100		
148	64.0	51.4	77.0
111	40.0	32.4	48.6



Instrument :
BNA_M
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

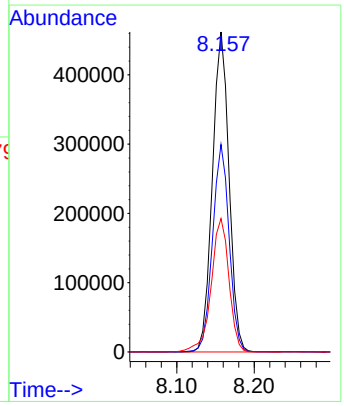
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

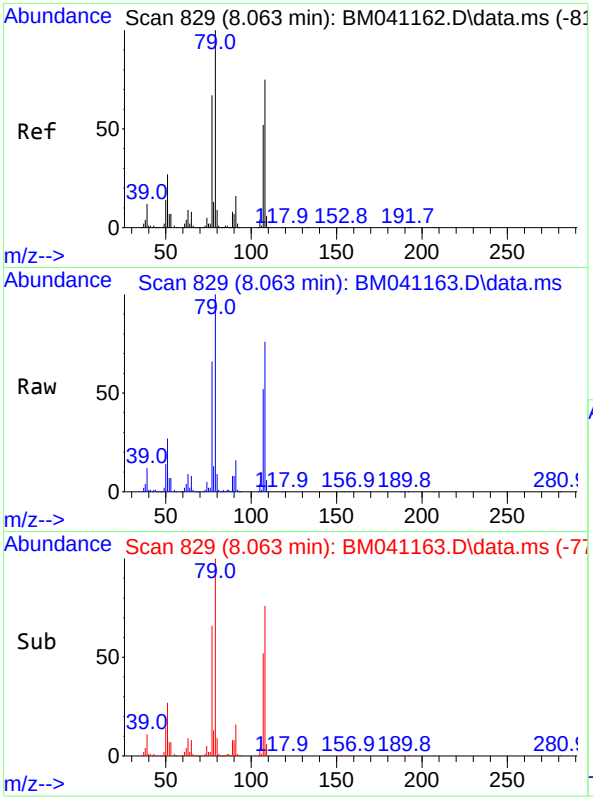


#14
1,2-Dichlorobenzene
Concen: 47.466 ng
RT: 8.157 min Scan# 845
Delta R.T. -0.000 min
Lab File: BM041163.D
Acq: 28 Jul 2023 13:22

Tgt Ion:146 Resp: 687792

Ion	Ratio	Lower	Upper
146	100		
148	64.9	50.9	76.3
111	41.7	33.8	50.6

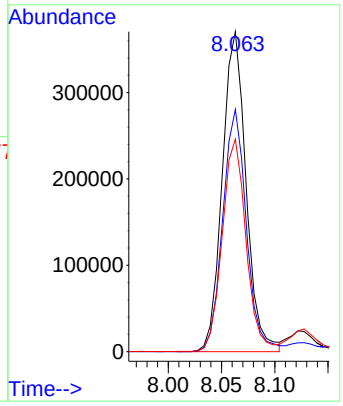




#15
Benzyl Alcohol
Concen: 49.636 ng
RT: 8.063 min Scan# 8
Delta R.T. -0.000 min
Lab File: BM041163.D
Acq: 28 Jul 2023 13:22

Tgt Ion: 79 Resp: 57490

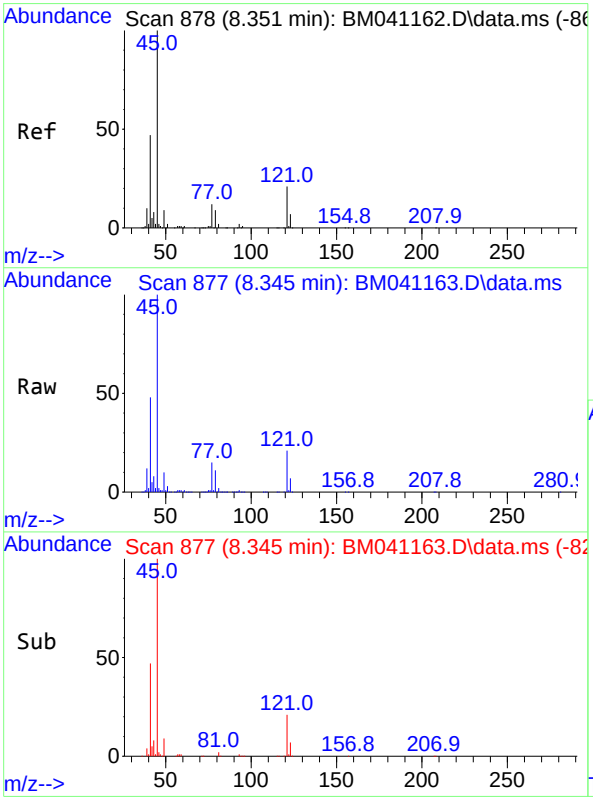
Ion	Ratio	Lower	Upper
79	100		
108	75.7	59.8	89.8
77	66.5	53.8	80.6



Instrument :
BNA_M
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

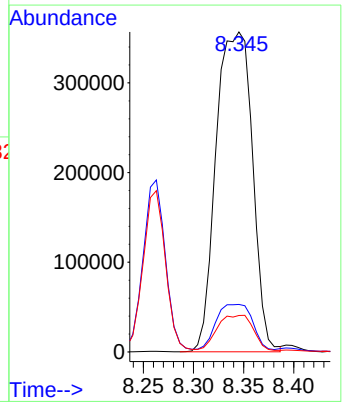
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

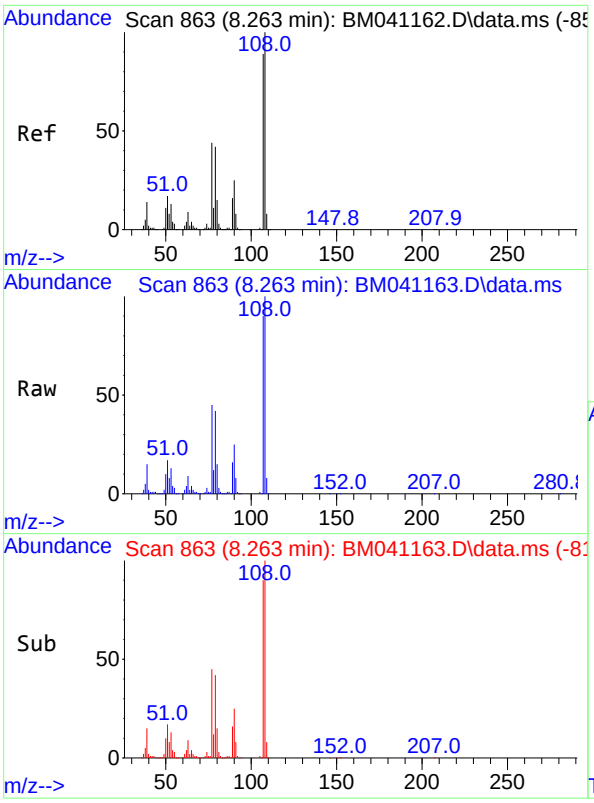


#16
2,2'-oxybis(1-Chloropropane)
Concen: 47.025 ng
RT: 8.345 min Scan# 877
Delta R.T. -0.006 min
Lab File: BM041163.D
Acq: 28 Jul 2023 13:22

Tgt Ion: 45 Resp: 898394

Ion	Ratio	Lower	Upper
45	100		
77	14.9	0.0	34.5
79	11.4	0.0	32.1

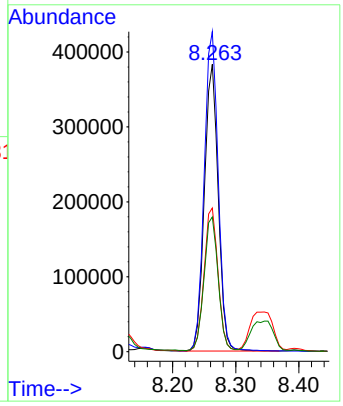




#17
2-Methylphenol
Concen: 48.183 ng
RT: 8.263 min Scan# 8
Delta R.T. -0.000 min
Lab File: BM041163.D
Acq: 28 Jul 2023 13:22

Tgt Ion:107 Resp: 58311

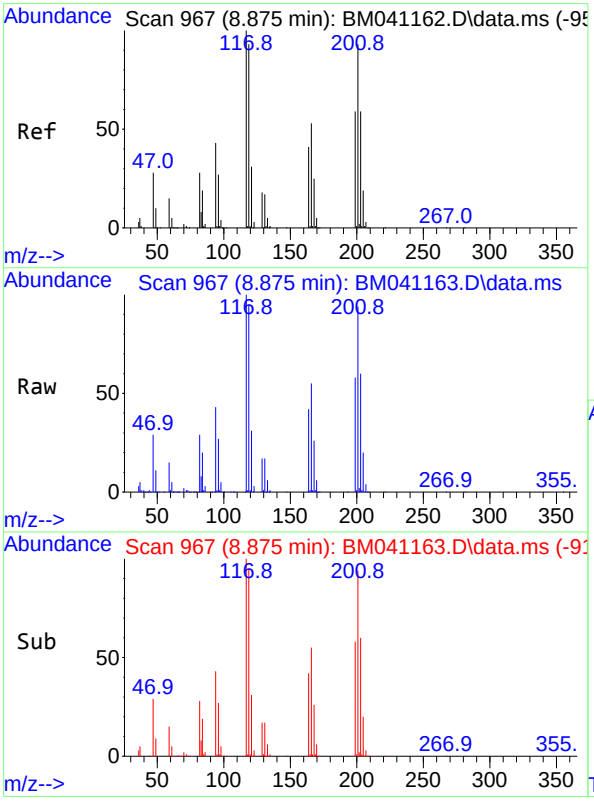
Ion	Ratio	Lower	Upper
107	100		
108	111.4	89.9	134.9
77	50.0	39.8	59.8
79	46.9	37.7	56.5



Instrument :
BNA_M
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

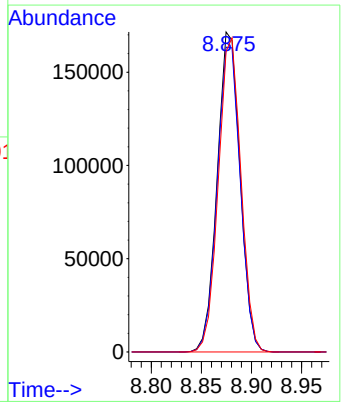
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

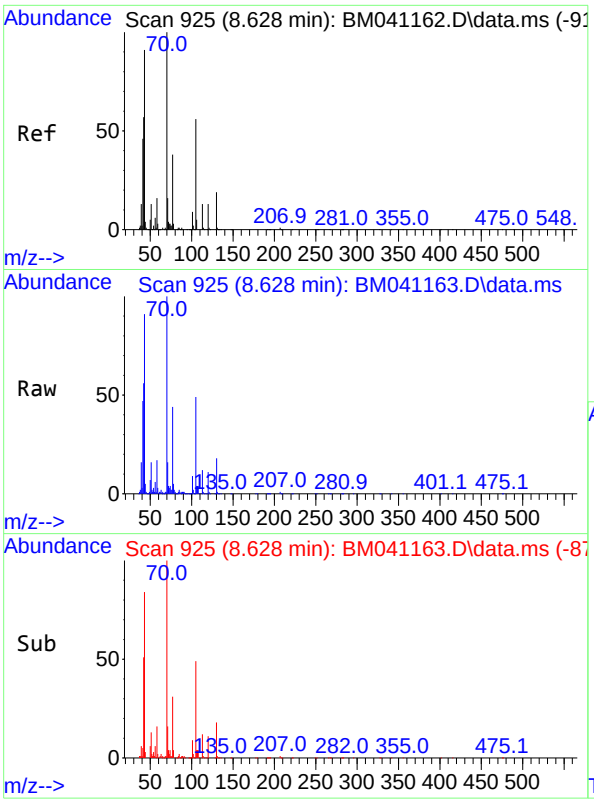


#18
Hexachloroethane
Concen: 48.255 ng
RT: 8.875 min Scan# 967
Delta R.T. -0.000 min
Lab File: BM041163.D
Acq: 28 Jul 2023 13:22

Tgt Ion:117 Resp: 271497

Ion	Ratio	Lower	Upper
117	100		
119	95.3	74.2	111.4
201	93.9	74.5	111.7

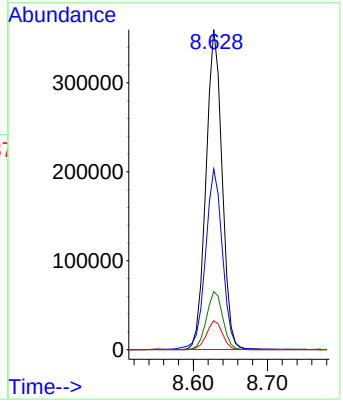




#19
n-Nitroso-di-n-propylamine
Concen: 48.825 ng
RT: 8.628 min Scan# 9
Delta R.T. -0.000 min
Lab File: BM041163.D
Acq: 28 Jul 2023 13:22

Tgt Ion: 70 Resp: 54390

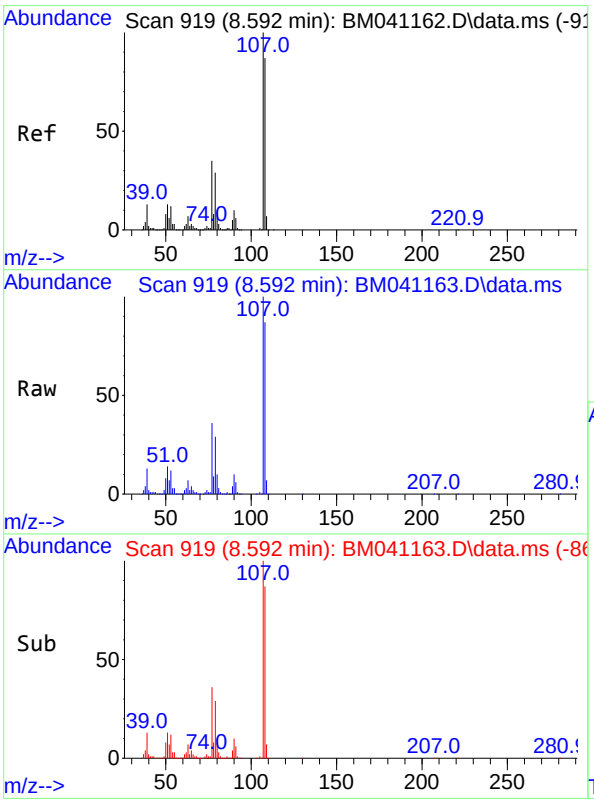
Ion	Ratio	Lower	Upper
70	100		
42	56.5	45.8	68.8
101	9.0	7.4	11.0
130	18.2	15.2	22.8



Instrument :
BNA_M
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

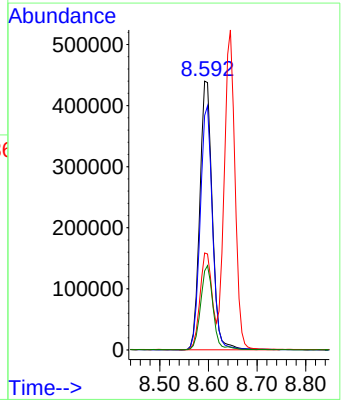
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

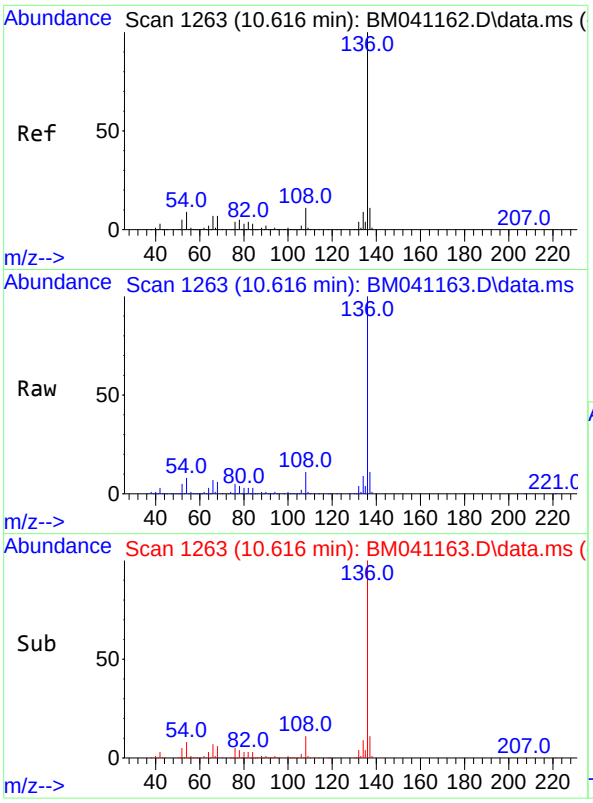


#20
3+4-Methylphenols
Concen: 48.636 ng
RT: 8.592 min Scan# 919
Delta R.T. -0.000 min
Lab File: BM041163.D
Acq: 28 Jul 2023 13:22

Tgt Ion:107 Resp: 786983

Ion	Ratio	Lower	Upper
107	100		
108	87.2	67.2	107.2
77	36.1	15.4	55.4
79	29.4	9.2	49.2

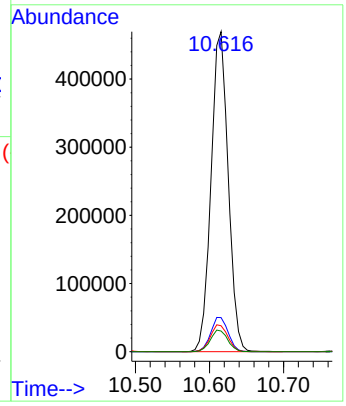




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.616 min Scan# 1
Delta R.T. -0.000 min
Lab File: BM041163.D
Acq: 28 Jul 2023 13:22

Tgt Ion:136 Resp: 75424

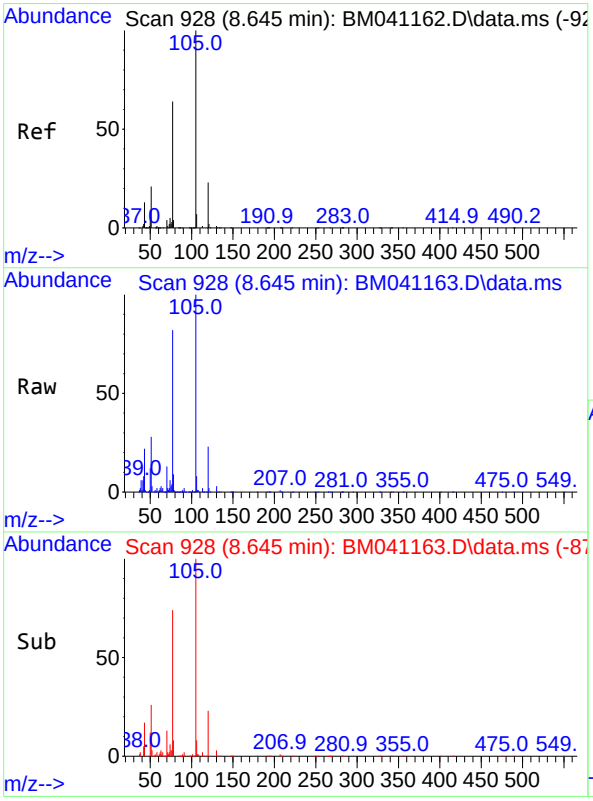
Ion	Ratio	Lower	Upper
136	100		
137	10.7	8.8	13.2
54	8.1	6.9	10.3
68	6.5	5.4	8.2



Instrument :
BNA_M
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

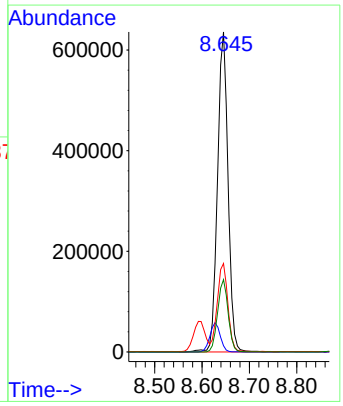
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

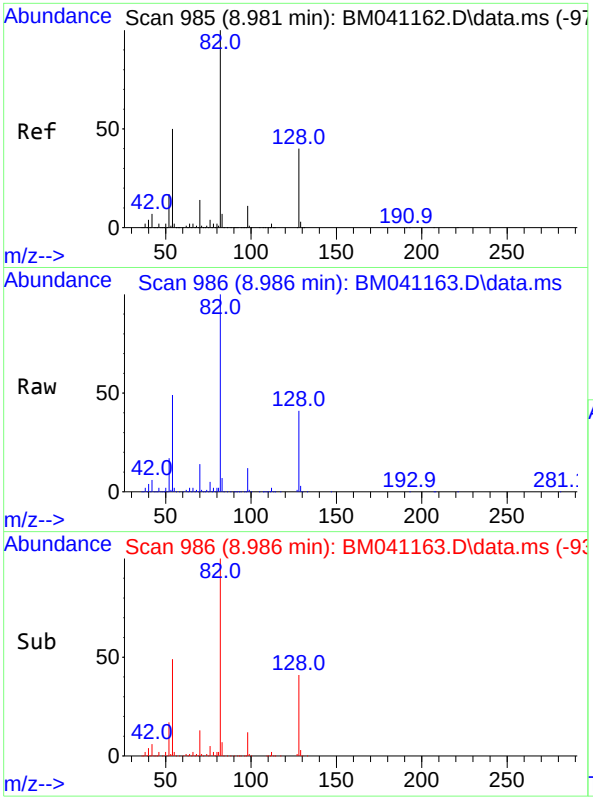


#22
Acetophenone
Concen: 49.179 ng
RT: 8.645 min Scan# 928
Delta R.T. -0.000 min
Lab File: BM041163.D
Acq: 28 Jul 2023 13:22

Tgt Ion:105 Resp: 982383

Ion	Ratio	Lower	Upper
105	100		
71	2.0	1.2	1.8#
51	27.7	22.0	33.0
120	22.6	18.0	27.0

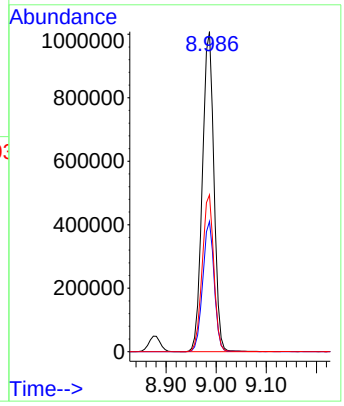




#23
Nitrobenzene-d5
Concen: 99.767 ng
RT: 8.986 min Scan# 9
Delta R.T. 0.006 min
Lab File: BM041163.D
Acq: 28 Jul 2023 13:22

Tgt Ion: 82 Resp: 161809

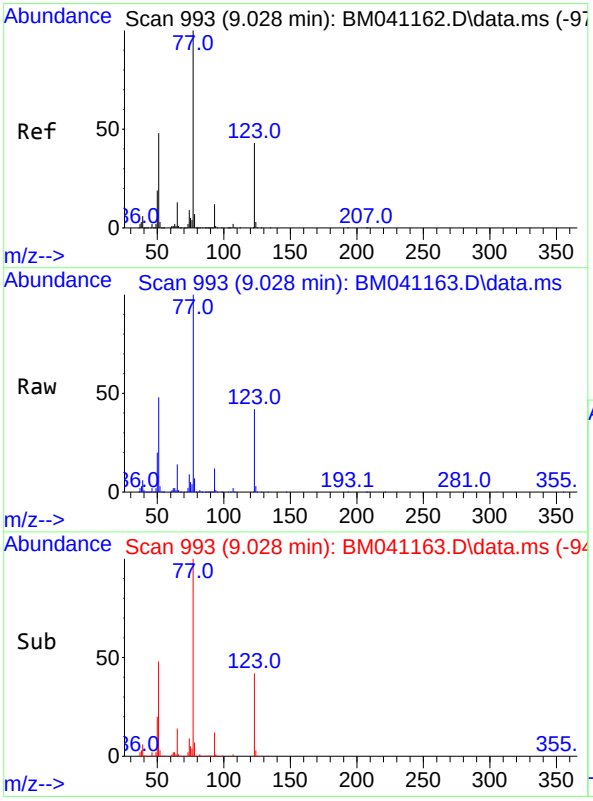
Ion	Ratio	Lower	Upper
82	100		
128	40.7	31.8	47.6
54	49.0	40.1	60.1



Instrument :
BNA_M
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

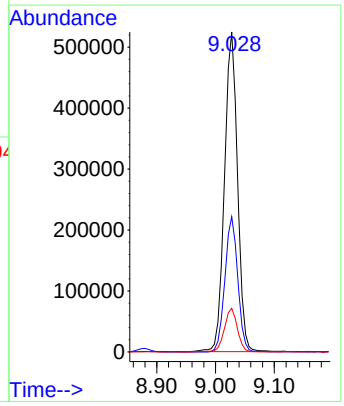
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

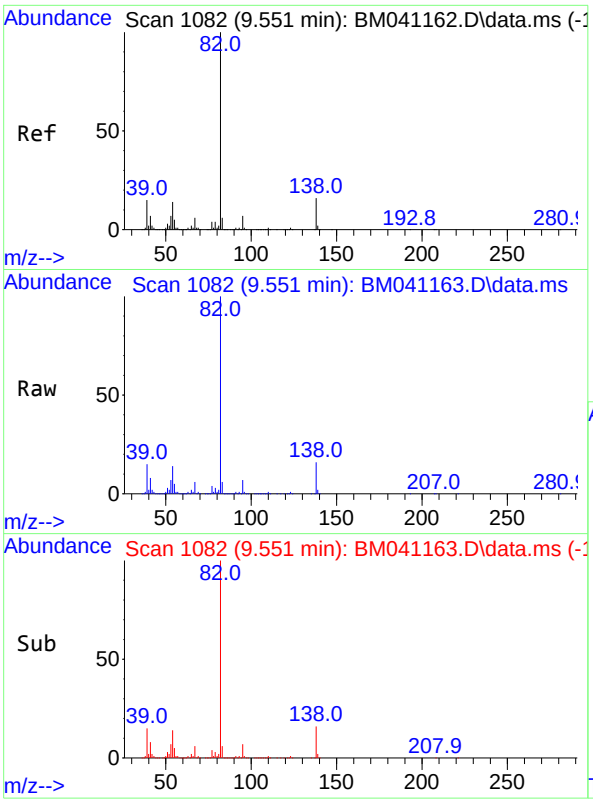


#24
Nitrobenzene
Concen: 49.223 ng
RT: 9.028 min Scan# 993
Delta R.T. -0.000 min
Lab File: BM041163.D
Acq: 28 Jul 2023 13:22

Tgt Ion: 77 Resp: 807344

Ion	Ratio	Lower	Upper
77	100		
123	42.3	34.2	51.2
65	13.6	10.7	16.1

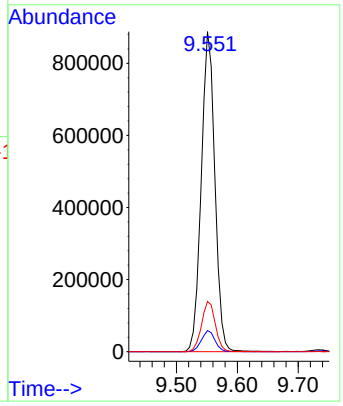




#25
Isophorone
Concen: 50.060 ng
RT: 9.551 min Scan# 1
Delta R.T. -0.000 min
Lab File: BM041163.D
Acq: 28 Jul 2023 13:22

Tgt Ion: 82 Resp: 137824

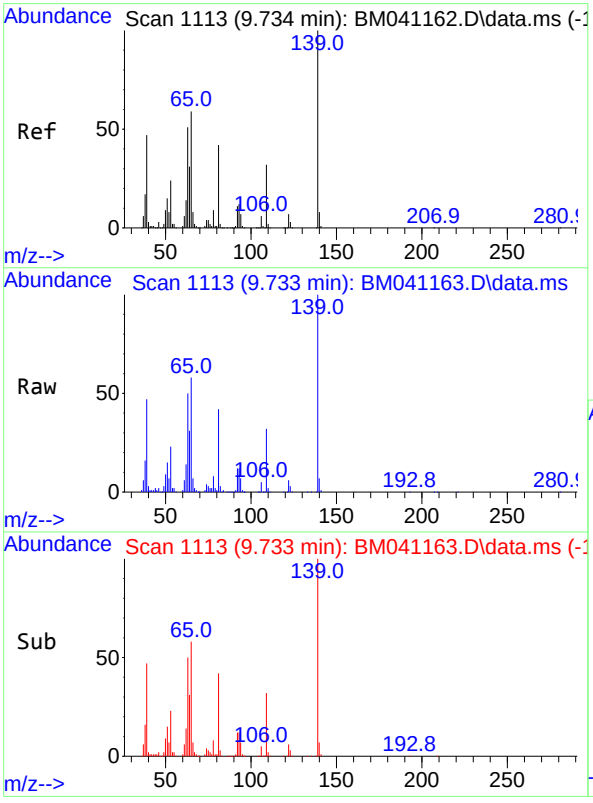
Ion	Ratio	Lower	Upper
82	100		
95	6.6	5.3	7.9
138	15.7	12.8	19.2



Instrument :
BNA_M
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

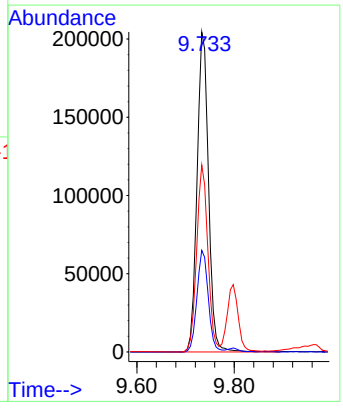
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

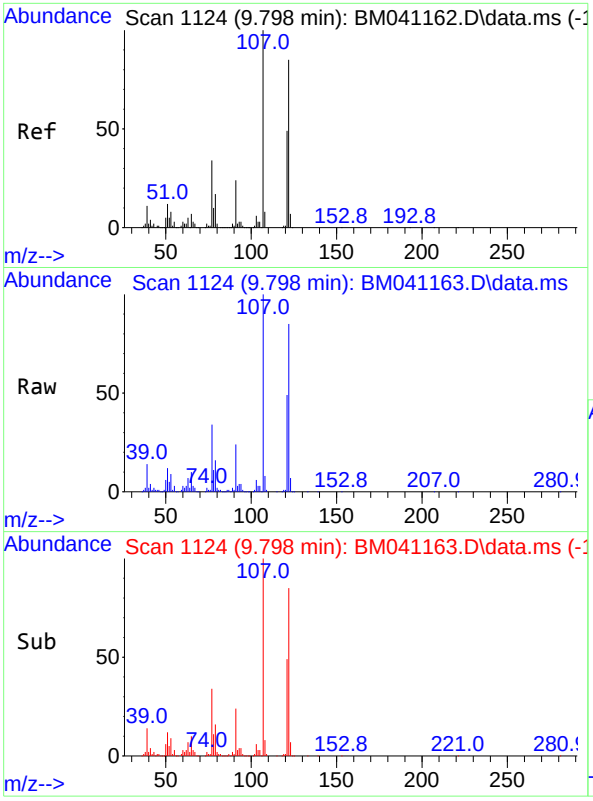


#26
2-Nitrophenol
Concen: 52.187 ng
RT: 9.733 min Scan# 1113
Delta R.T. -0.000 min
Lab File: BM041163.D
Acq: 28 Jul 2023 13:22

Tgt Ion:139 Resp: 334611

Ion	Ratio	Lower	Upper
139	100		
109	31.8	25.4	38.2
65	58.4	47.2	70.8

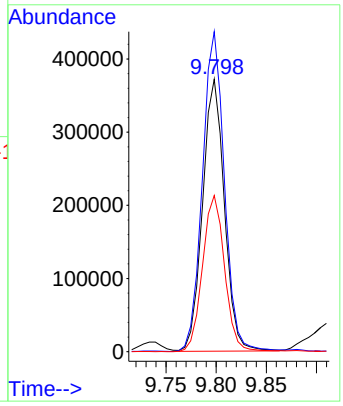




#27
2,4-Dimethylphenol
Concen: 49.862 ng
RT: 9.798 min Scan# 11
Delta R.T. -0.000 min
Lab File: BM041163.D
Acq: 28 Jul 2023 13:22

Tgt Ion:122 Resp: 56257

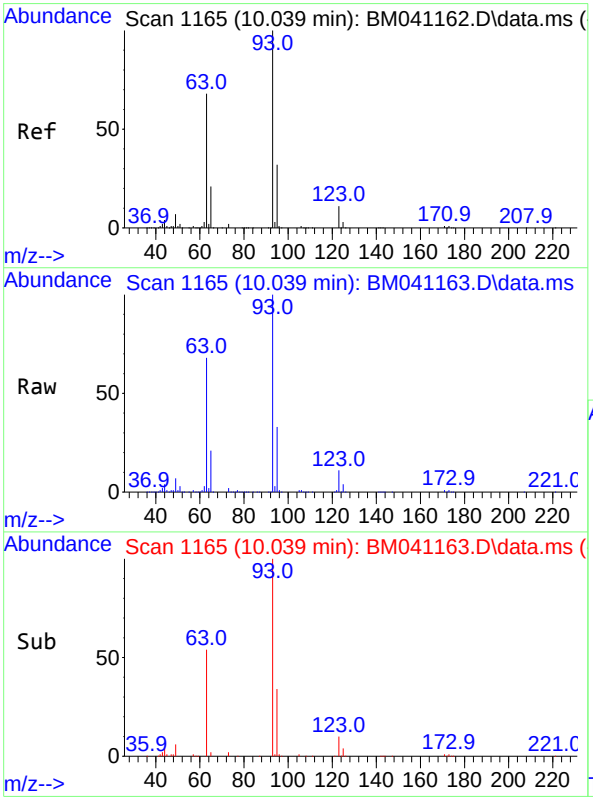
Ion	Ratio	Lower	Upper
122	100		
107	117.4	94.3	141.5
121	57.3	45.8	68.8



Instrument :
BNA_M
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

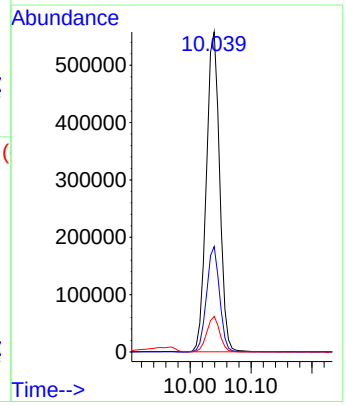
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

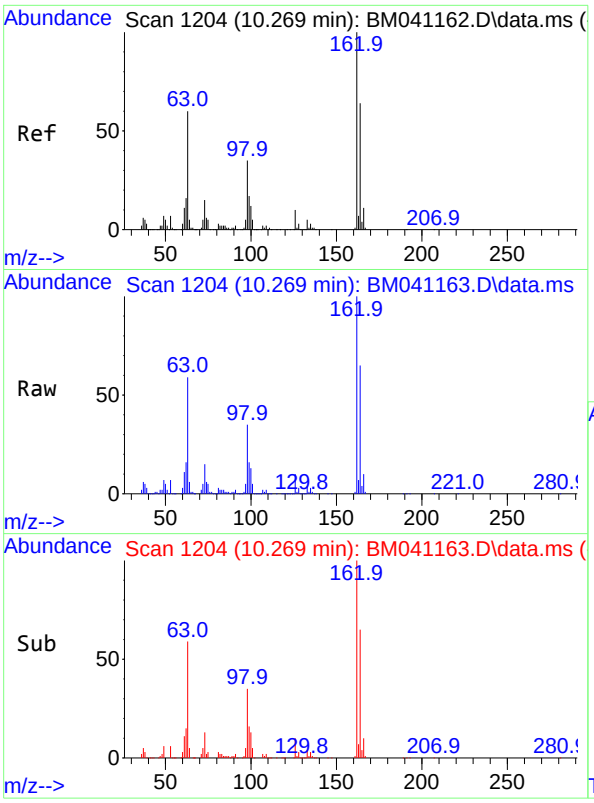


#28
bis(2-Chloroethoxy)methane
Concen: 48.879 ng
RT: 10.039 min Scan# 1165
Delta R.T. -0.000 min
Lab File: BM041163.D
Acq: 28 Jul 2023 13:22

Tgt Ion: 93 Resp: 842963

Ion	Ratio	Lower	Upper
93	100		
95	32.9	25.9	38.9
123	11.1	9.1	13.7

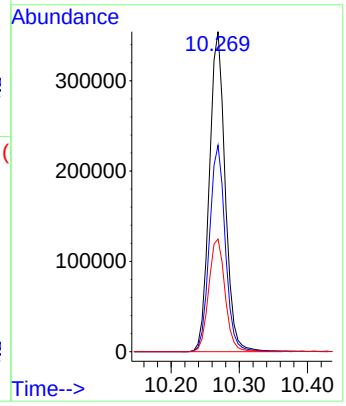




#29
2,4-Dichlorophenol
Concen: 50.242 ng
RT: 10.269 min Scan# 1
Delta R.T. -0.000 min
Lab File: BM041163.D
Acq: 28 Jul 2023 13:22

Tgt Ion:162 Resp: 57165

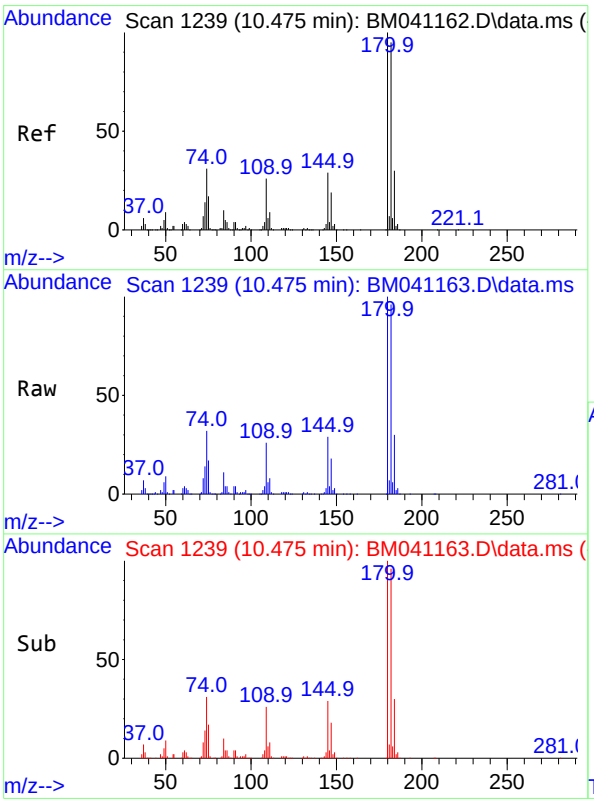
Ion	Ratio	Lower	Upper
162	100		
164	64.5	44.3	84.3
98	35.2	15.1	55.1



Instrument :
BNA_M
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

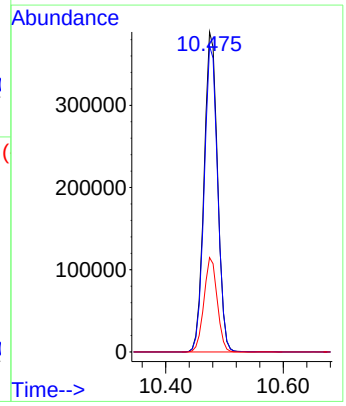
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

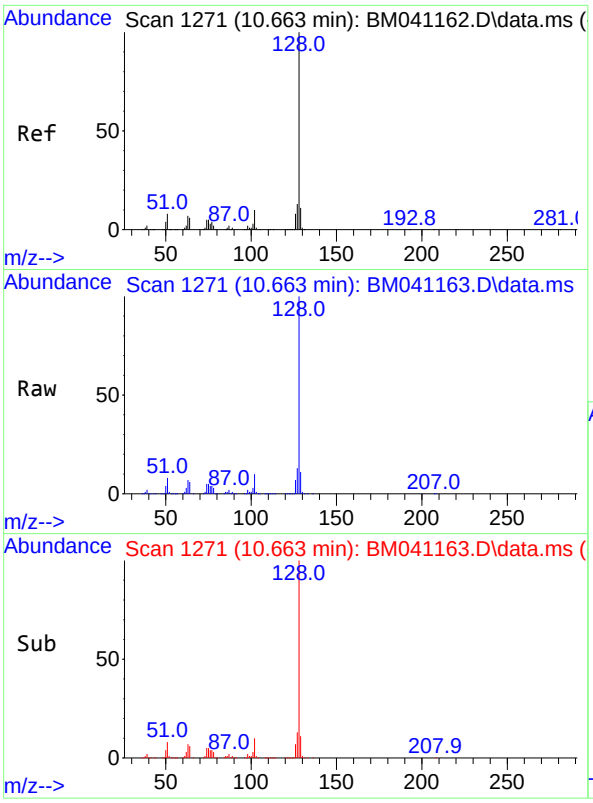


#30
1,2,4-Trichlorobenzene
Concen: 49.163 ng
RT: 10.475 min Scan# 1239
Delta R.T. -0.000 min
Lab File: BM041163.D
Acq: 28 Jul 2023 13:22

Tgt Ion:180 Resp: 618022

Ion	Ratio	Lower	Upper
180	100		
182	95.6	75.9	113.9
145	29.5	23.6	35.4

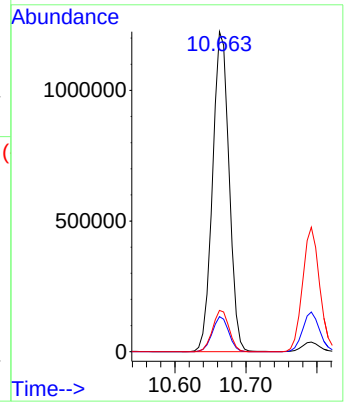




#31
Naphthalene
Concen: 48.288 ng
RT: 10.663 min Scan# 1
Delta R.T. -0.000 min
Lab File: BM041163.D
Acq: 28 Jul 2023 13:22

Tgt Ion:128 Resp: 197641

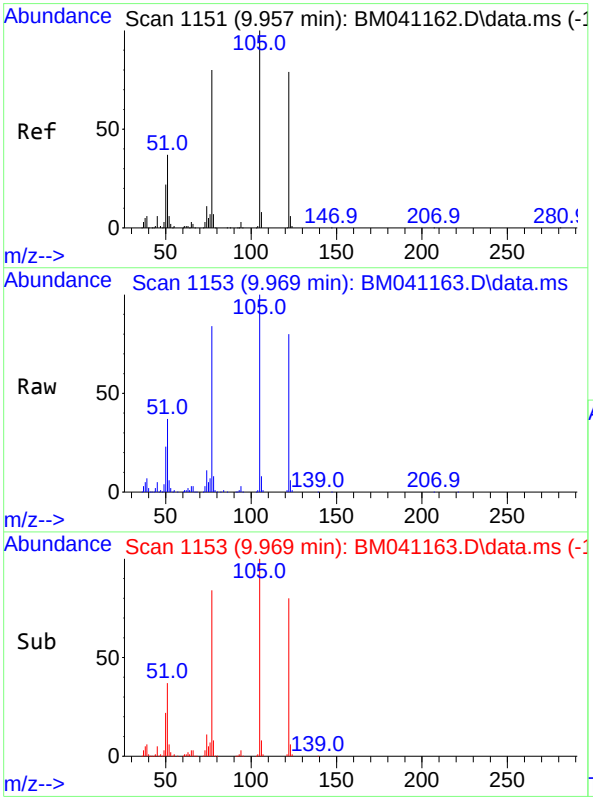
Ion	Ratio	Lower	Upper
128	100		
129	11.0	9.0	13.4
127	12.9	10.5	15.7



Instrument :
BNA_M
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

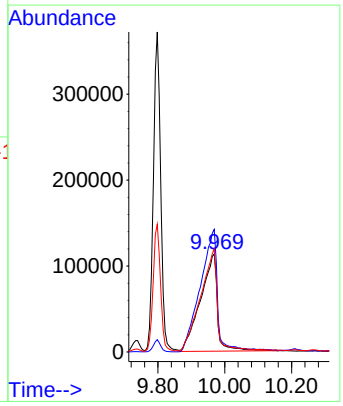
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

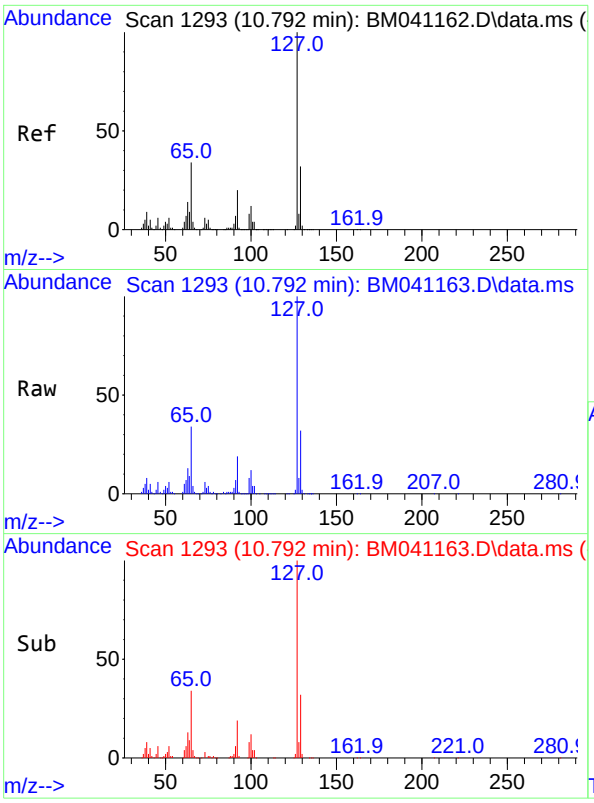


#32
Benzoic acid
Concen: 47.520 ng
RT: 9.969 min Scan# 1153
Delta R.T. 0.012 min
Lab File: BM041163.D
Acq: 28 Jul 2023 13:22

Tgt Ion:122 Resp: 401966

Ion	Ratio	Lower	Upper
122	100		
105	125.3	104.0	144.0
77	105.3	79.9	119.9

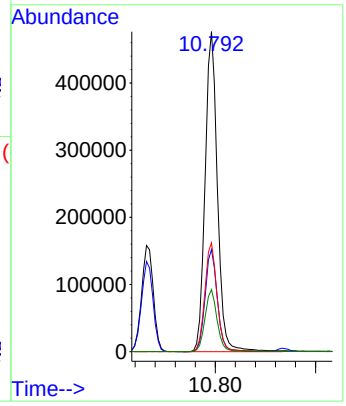




#33
4-Chloroaniline
Concen: 49.707 ng
RT: 10.792 min Scan# 1
Delta R.T. -0.000 min
Lab File: BM041163.D
Acq: 28 Jul 2023 13:22

Tgt Ion:127 Resp: 81305

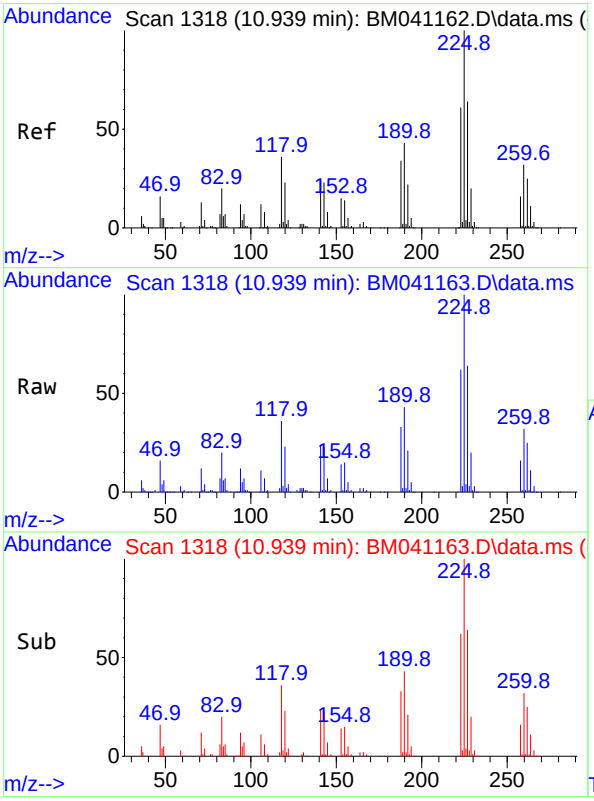
Ion	Ratio	Lower	Upper
127	100		
129	31.9	25.9	38.9
65	34.0	26.9	40.3
92	19.4	15.8	23.6



Instrument :
BNA_M
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

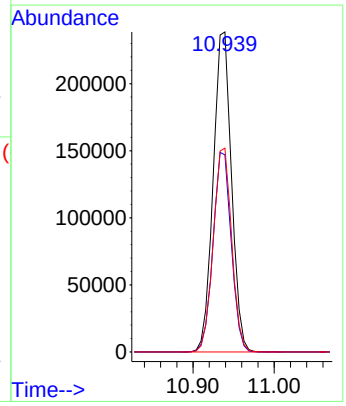
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

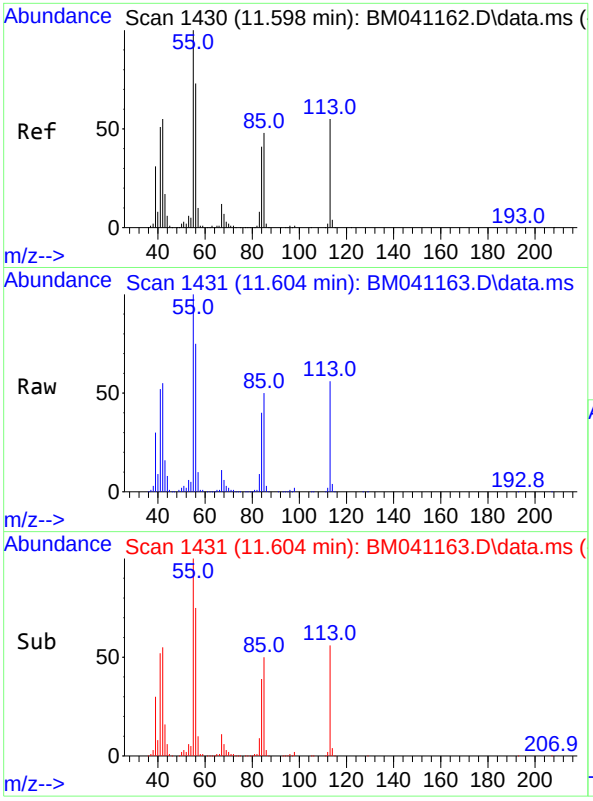


#34
Hexachlorobutadiene
Concen: 49.250 ng
RT: 10.939 min Scan# 1318
Delta R.T. -0.000 min
Lab File: BM041163.D
Acq: 28 Jul 2023 13:22

Tgt Ion:225 Resp: 372360

Ion	Ratio	Lower	Upper
225	100		
223	61.6	49.0	73.4
227	63.7	50.8	76.2

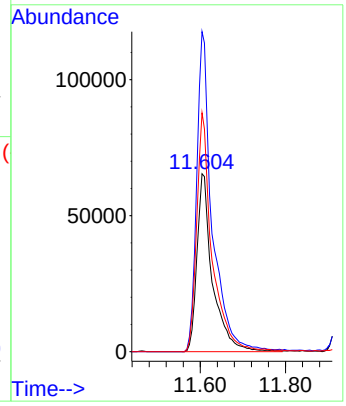




#35
Caprolactam
Concen: 50.328 ng
RT: 11.604 min Scan# 14
Delta R.T. 0.006 min
Lab File: BM041163.D
Acq: 28 Jul 2023 13:22

Tgt Ion:113 Resp: 16565

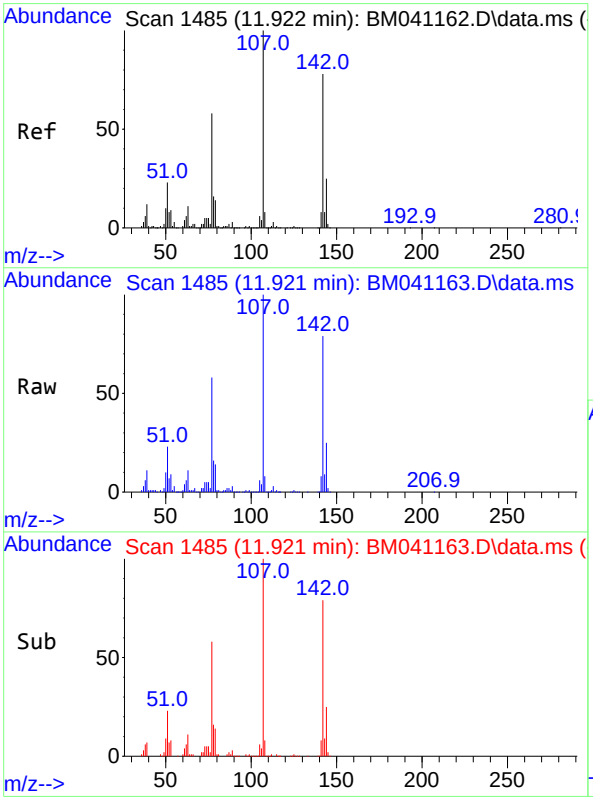
Ion	Ratio	Lower	Upper
113	100		
55	179.9	162.5	202.5
56	134.3	114.1	154.1



Instrument :
BNA_M
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

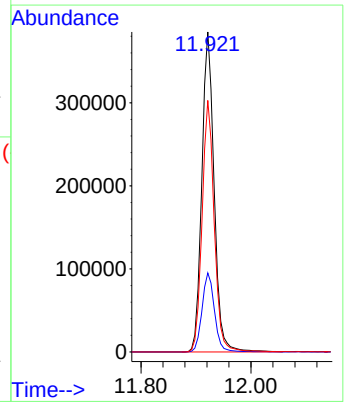
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

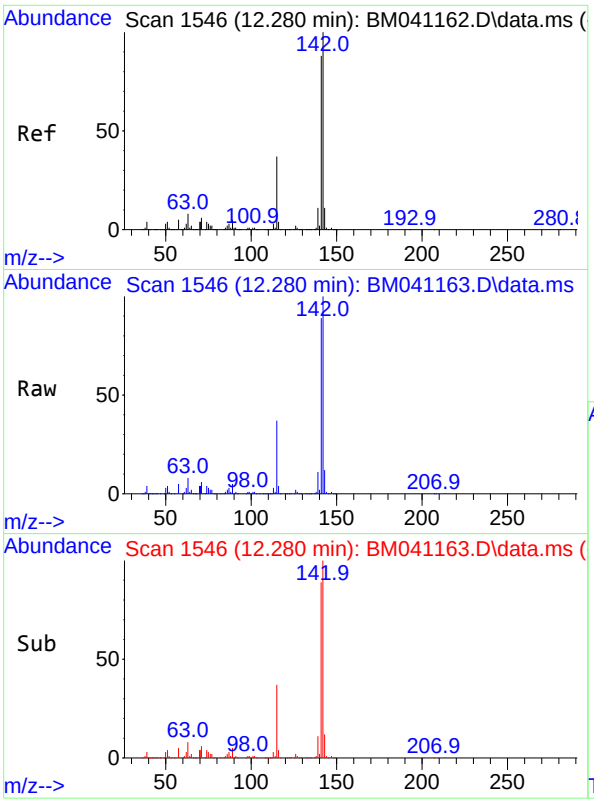


#36
4-Chloro-3-methylphenol
Concen: 50.045 ng
RT: 11.921 min Scan# 1485
Delta R.T. -0.000 min
Lab File: BM041163.D
Acq: 28 Jul 2023 13:22

Tgt Ion:107 Resp: 599326

Ion	Ratio	Lower	Upper
107	100		
144	24.7	20.1	30.1
142	78.6	62.2	93.4

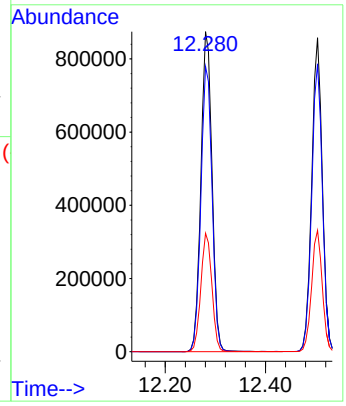




#37
2-Methylnaphthalene
Concen: 48.684 ng
RT: 12.280 min Scan# 1
Delta R.T. -0.000 min
Lab File: BM041163.D
Acq: 28 Jul 2023 13:22

Tgt Ion:142 Resp: 134339

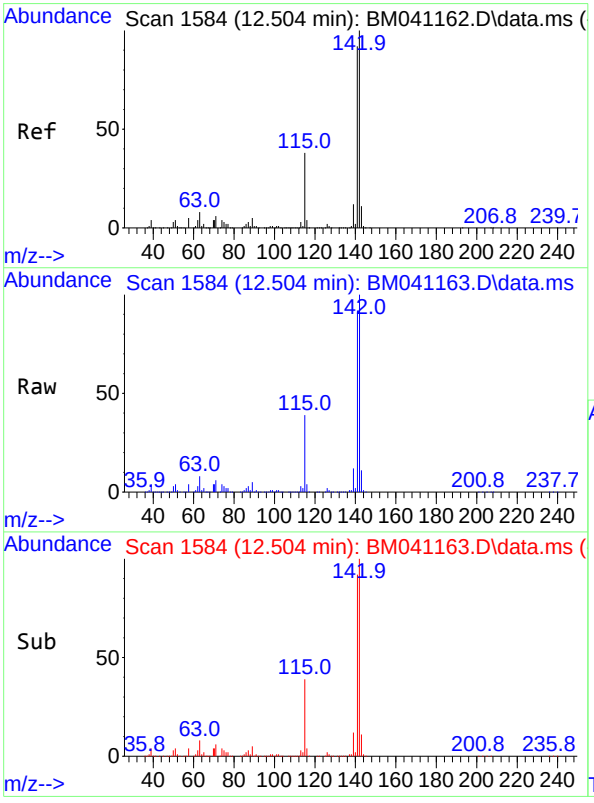
Ion	Ratio	Lower	Upper
142	100		
141	89.1	70.7	106.1
115	37.0	29.3	43.9



Instrument :
BNA_M
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

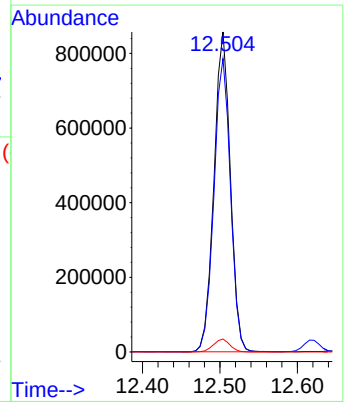
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

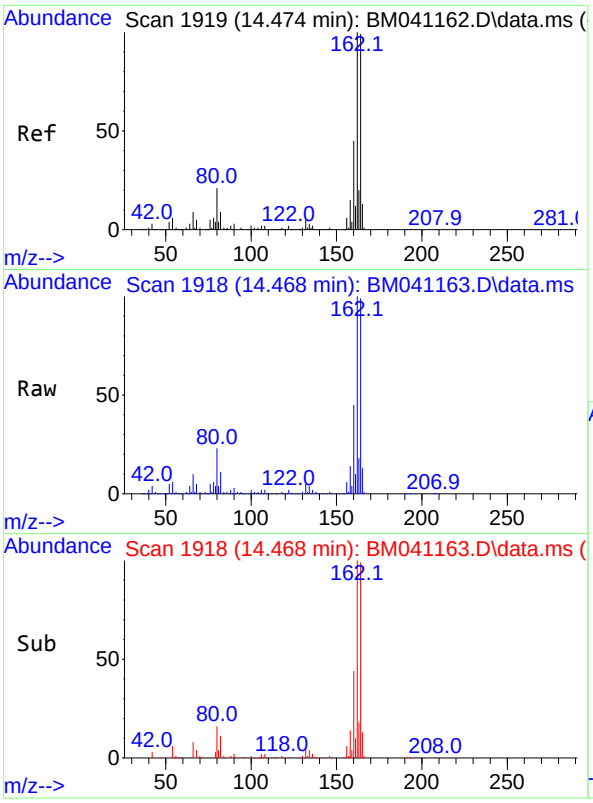


#38
1-Methylnaphthalene
Concen: 48.633 ng
RT: 12.504 min Scan# 1584
Delta R.T. -0.000 min
Lab File: BM041163.D
Acq: 28 Jul 2023 13:22

Tgt Ion:142 Resp: 1256007

Ion	Ratio	Lower	Upper
142	100		
141	91.7	73.4	110.2
116	4.1	3.2	4.8

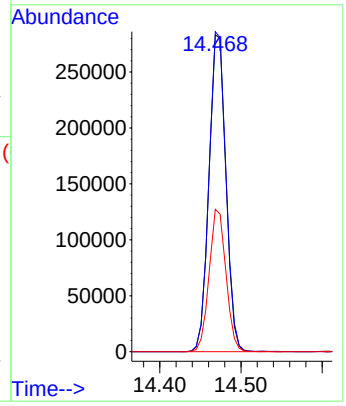




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.468 min Scan# 1
Delta R.T. -0.006 min
Lab File: BM041163.D
Acq: 28 Jul 2023 13:22

Tgt Ion:164 Resp: 40760

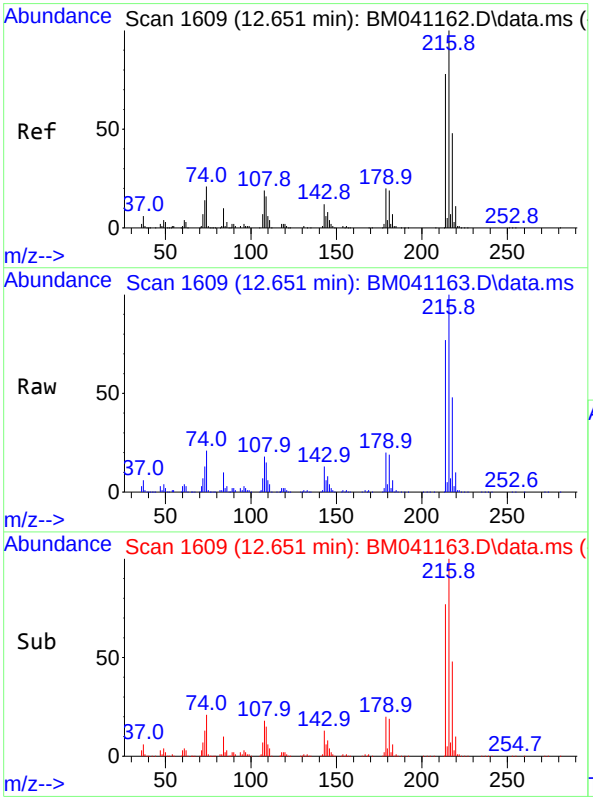
Ion	Ratio	Lower	Upper
164	100		
162	100.9	80.4	120.6
160	44.9	36.2	54.2



Instrument :
BNA_M
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

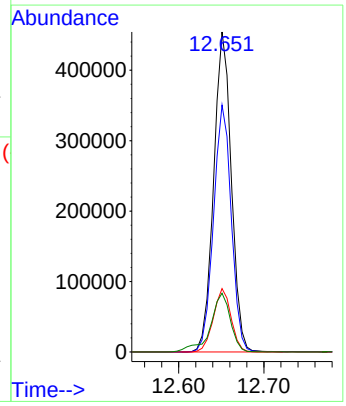
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

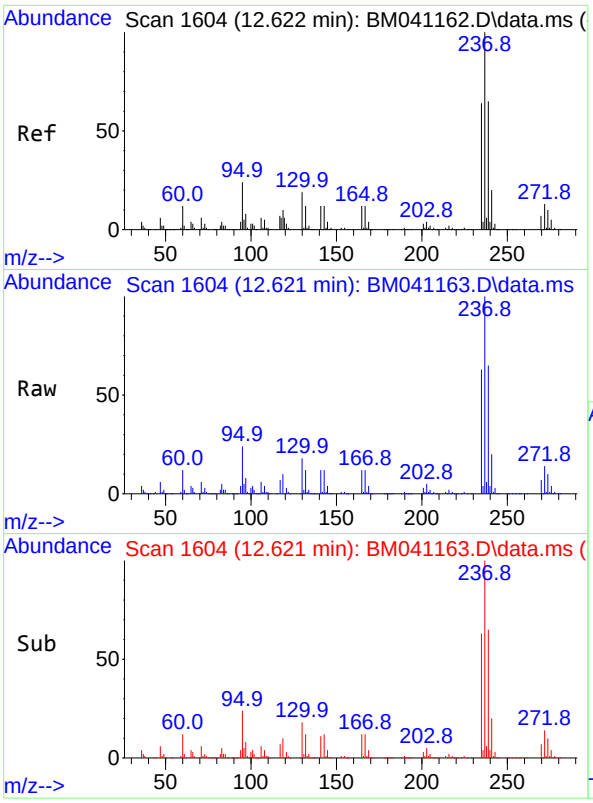


#40
1,2,4,5-Tetrachlorobenzene
Concen: 49.579 ng
RT: 12.651 min Scan# 1609
Delta R.T. -0.000 min
Lab File: BM041163.D
Acq: 28 Jul 2023 13:22

Tgt Ion:216 Resp: 656196

Ion	Ratio	Lower	Upper
216	100		
214	77.6	63.2	94.8
179	19.8	16.2	24.2
108	20.7	17.0	25.4

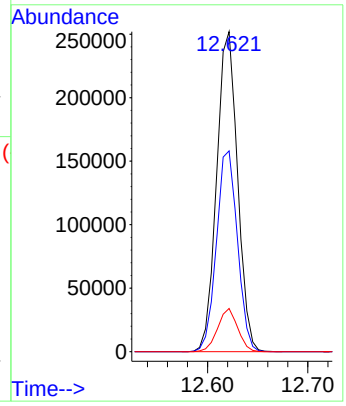




#41
Hexachlorocyclopentadiene
Concen: 51.943 ng
RT: 12.621 min Scan# 1
Delta R.T. -0.001 min
Lab File: BM041163.D
Acq: 28 Jul 2023 13:22

Tgt Ion:237 Resp: 36371

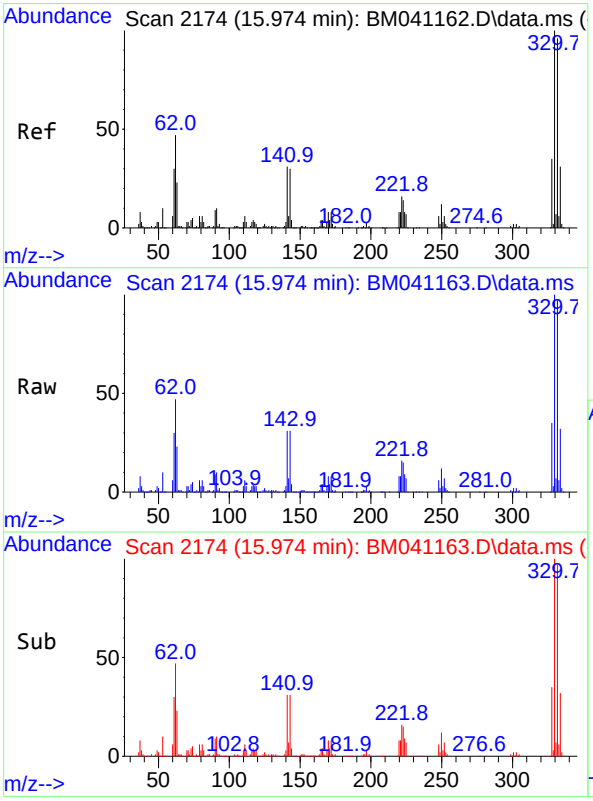
Ion	Ratio	Lower	Upper
237	100		
235	62.7	43.6	83.6
272	13.5	0.0	33.3



Instrument :
BNA_M
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

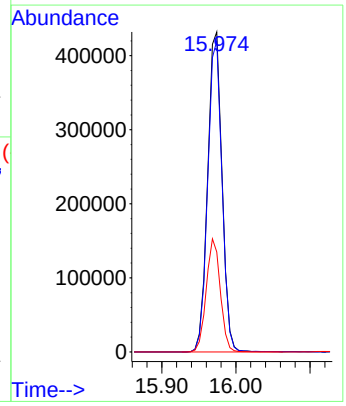
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

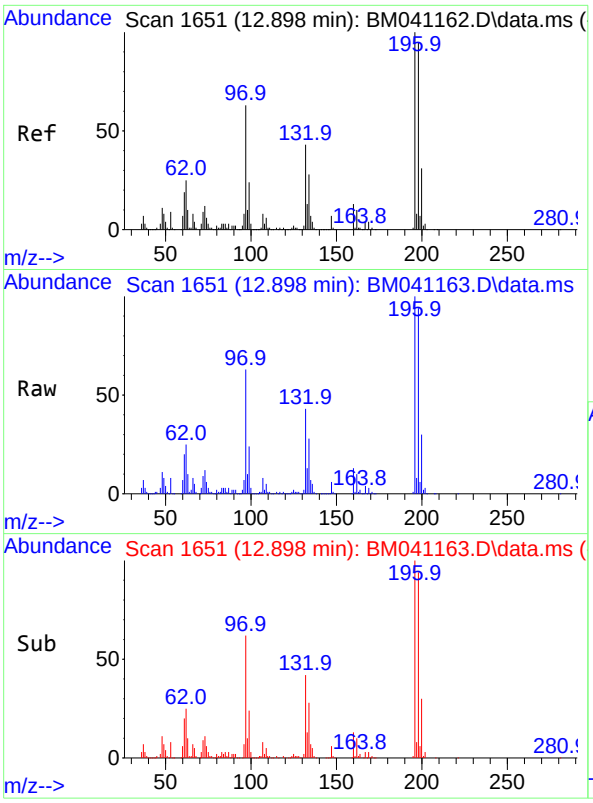


#42
2,4,6-Tribromophenol
Concen: 101.240 ng
RT: 15.974 min Scan# 2174
Delta R.T. -0.000 min
Lab File: BM041163.D
Acq: 28 Jul 2023 13:22

Tgt Ion:330 Resp: 583682

Ion	Ratio	Lower	Upper
330	100		
332	96.6	77.7	116.5
141	34.7	28.3	42.5

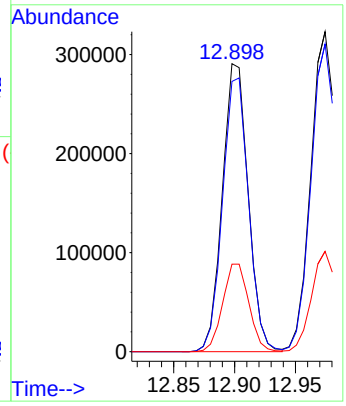




#43
2,4,6-Trichlorophenol
Concen: 50.628 ng
RT: 12.898 min Scan# 1
Delta R.T. -0.000 min
Lab File: BM041163.D
Acq: 28 Jul 2023 13:22

Tgt Ion:196 Resp: 42948

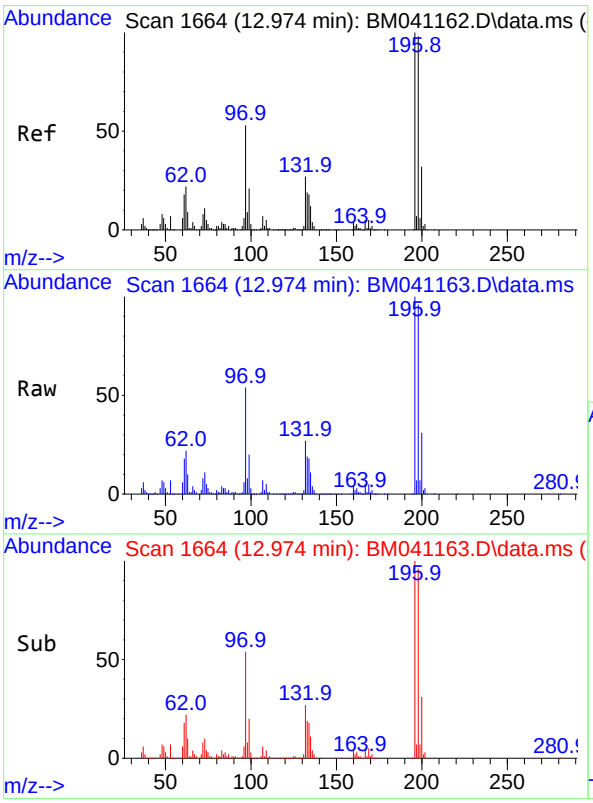
Ion	Ratio	Lower	Upper
196	100		
198	93.8	76.2	114.4
200	30.4	24.6	36.8



Instrument :
BNA_M
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

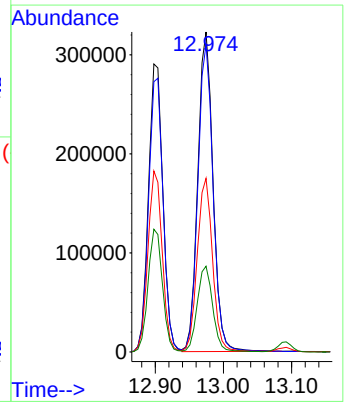
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

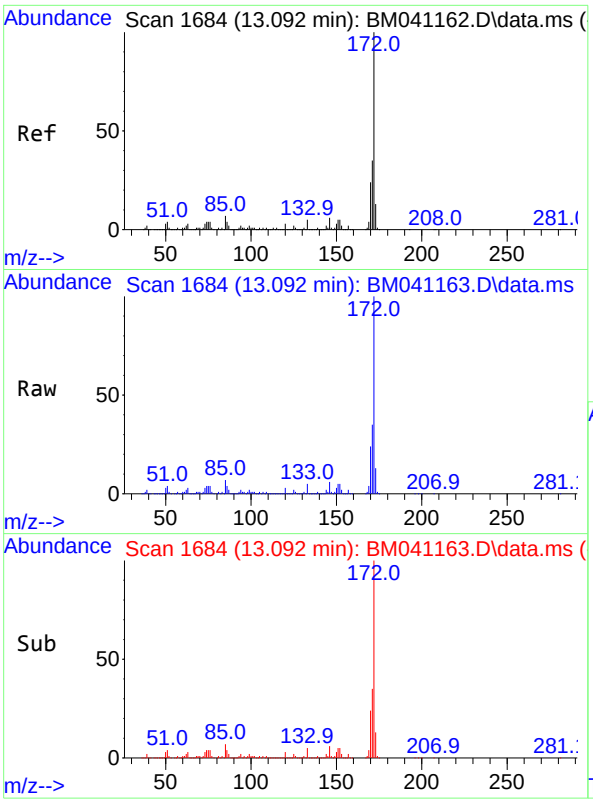


#44
2,4,5-Trichlorophenol
Concen: 50.706 ng
RT: 12.974 min Scan# 1664
Delta R.T. 0.000 min
Lab File: BM041163.D
Acq: 28 Jul 2023 13:22

Tgt Ion:196 Resp: 497856

Ion	Ratio	Lower	Upper
196	100		
198	96.1	78.2	117.4
97	54.3	42.7	64.1
132	26.8	21.6	32.4

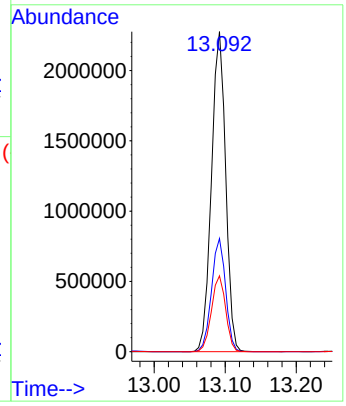




#45
2-Fluorobiphenyl
Concen: 98.033 ng
RT: 13.092 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BM041163.D
Acq: 28 Jul 2023 13:22

Tgt Ion:172 Resp: 316317

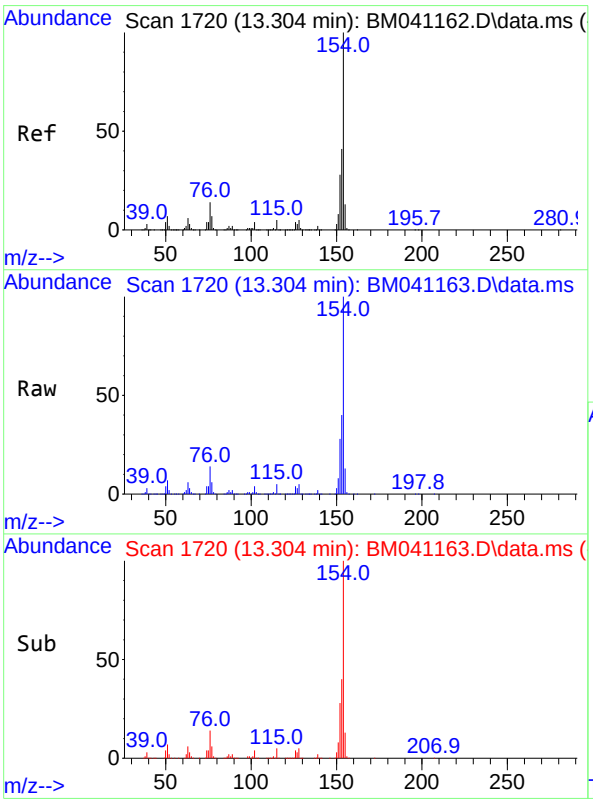
Ion	Ratio	Lower	Upper
172	100		
171	35.4	28.1	42.1
170	23.7	18.9	28.3



Instrument :
BNA_M
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

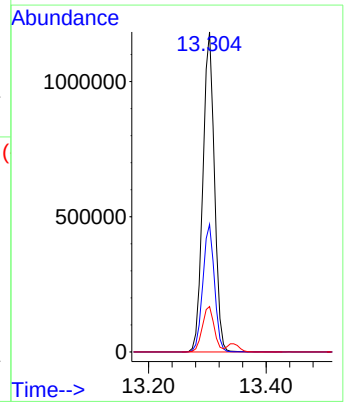
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

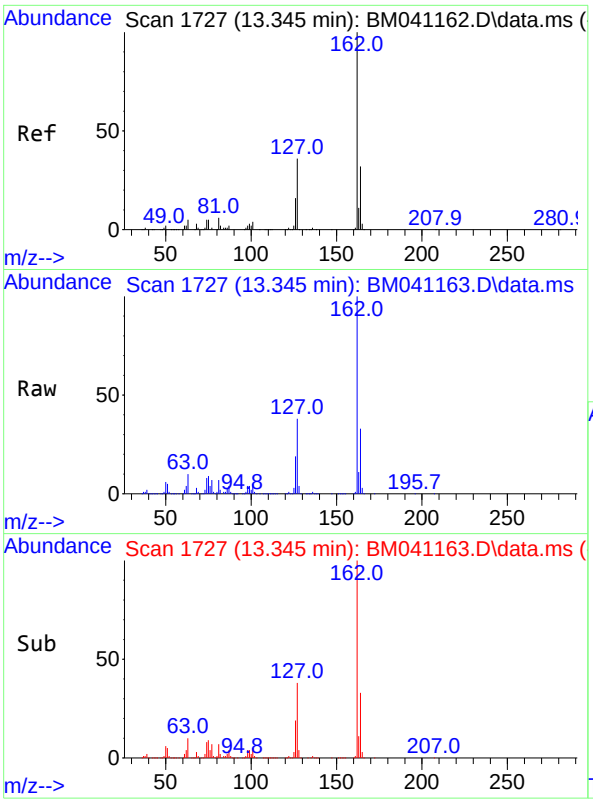


#46
1,1'-Biphenyl
Concen: 48.889 ng
RT: 13.304 min Scan# 1720
Delta R.T. -0.000 min
Lab File: BM041163.D
Acq: 28 Jul 2023 13:22

Tgt Ion:154 Resp: 1615502

Ion	Ratio	Lower	Upper
154	100		
153	39.9	20.5	60.5
76	14.2	0.0	34.1

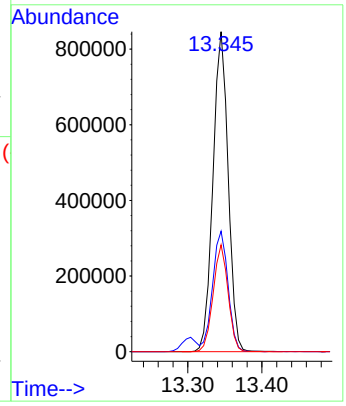




#47
2-Chloronaphthalene
Concen: 48.806 ng
RT: 13.345 min Scan# 1
Delta R.T. -0.000 min
Lab File: BM041163.D
Acq: 28 Jul 2023 13:22

Tgt Ion:162 Resp: 120418

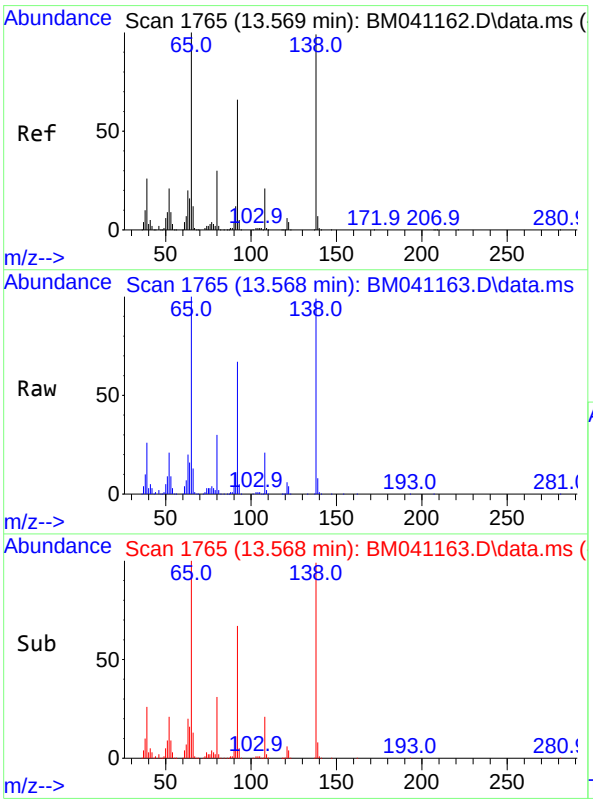
Ion	Ratio	Lower	Upper
162	100		
127	37.7	30.6	45.8
164	33.4	25.6	38.4



Instrument :
BNA_M
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

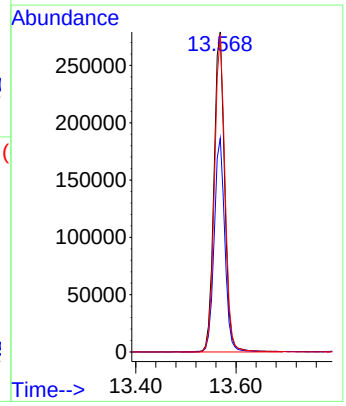
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

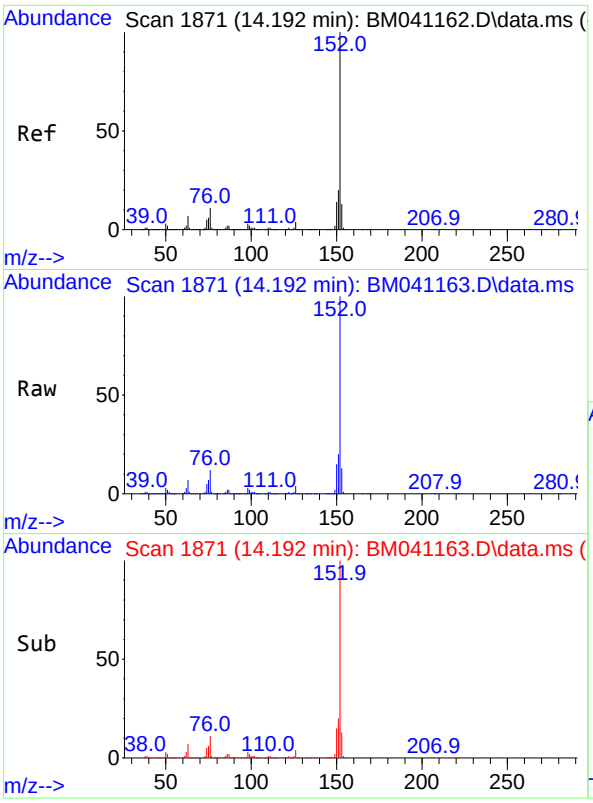


#48
2-Nitroaniline
Concen: 52.572 ng
RT: 13.568 min Scan# 1765
Delta R.T. -0.001 min
Lab File: BM041163.D
Acq: 28 Jul 2023 13:22

Tgt Ion: 65 Resp: 414038

Ion	Ratio	Lower	Upper
65	100		
92	66.8	53.0	79.4
138	99.4	79.1	118.7

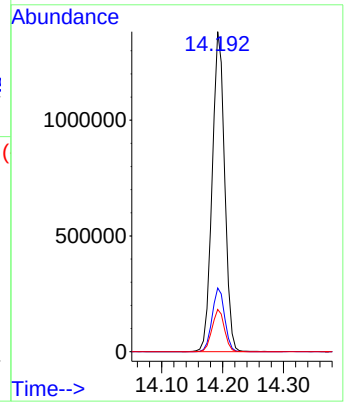




#49
Acenaphthylene
Concen: 49.383 ng
RT: 14.192 min Scan# 1
Delta R.T. -0.000 min
Lab File: BM041163.D
Acq: 28 Jul 2023 13:22

Tgt Ion:152 Resp: 196661

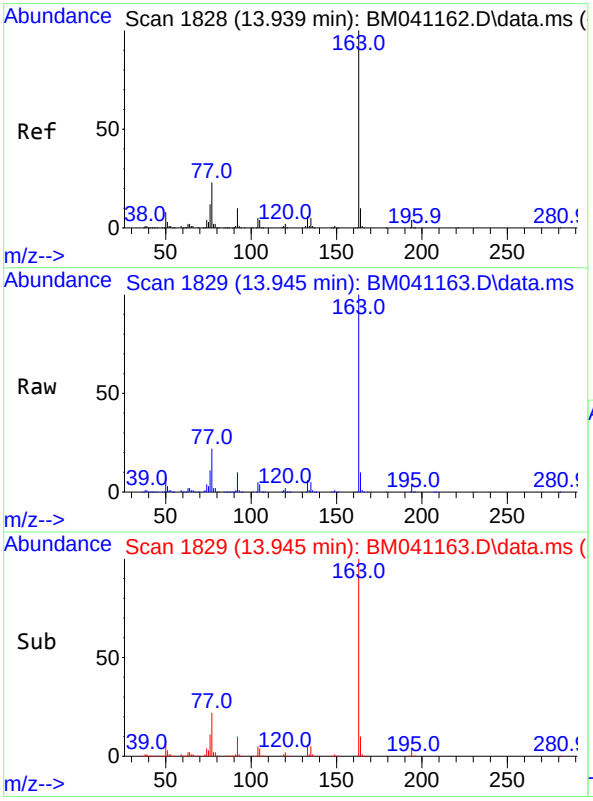
Ion	Ratio	Lower	Upper
152	100		
151	19.9	16.1	24.1
153	13.2	10.5	15.7



Instrument :
BNA_M
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

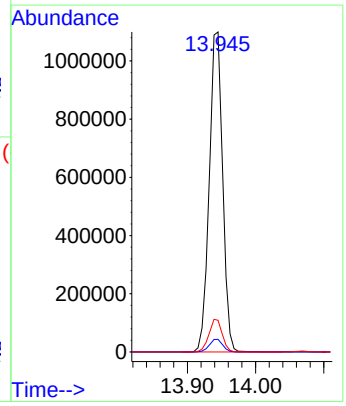
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

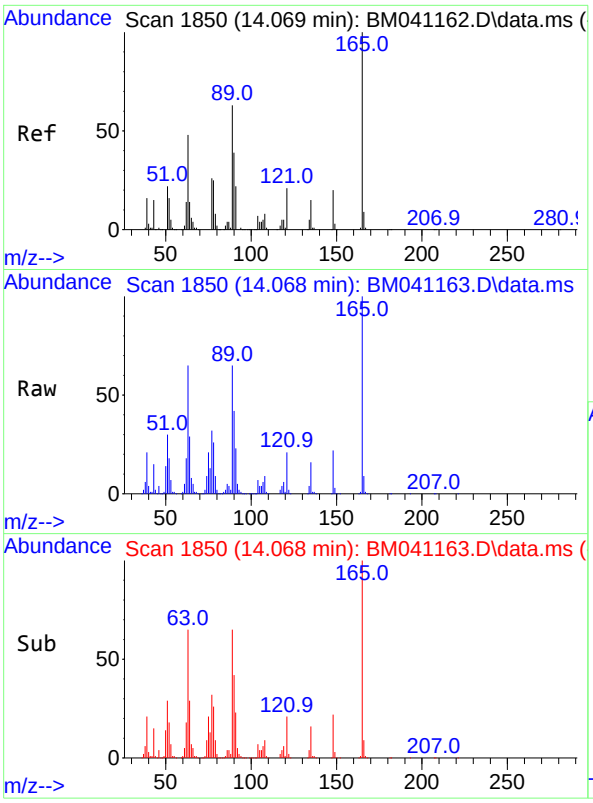


#50
Dimethylphthalate
Concen: 49.083 ng
RT: 13.945 min Scan# 1829
Delta R.T. 0.006 min
Lab File: BM041163.D
Acq: 28 Jul 2023 13:22

Tgt Ion:163 Resp: 1504915

Ion	Ratio	Lower	Upper
163	100		
194	3.9	3.3	4.9
164	9.9	8.3	12.5





#51
2,6-Dinitrotoluene
Concen: 50.881 ng
RT: 14.068 min Scan# 1
Delta R.T. -0.001 min
Lab File: BM041163.D
Acq: 28 Jul 2023 13:22

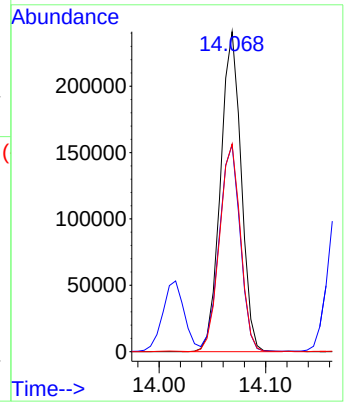
Tgt Ion:165 Resp: 32324

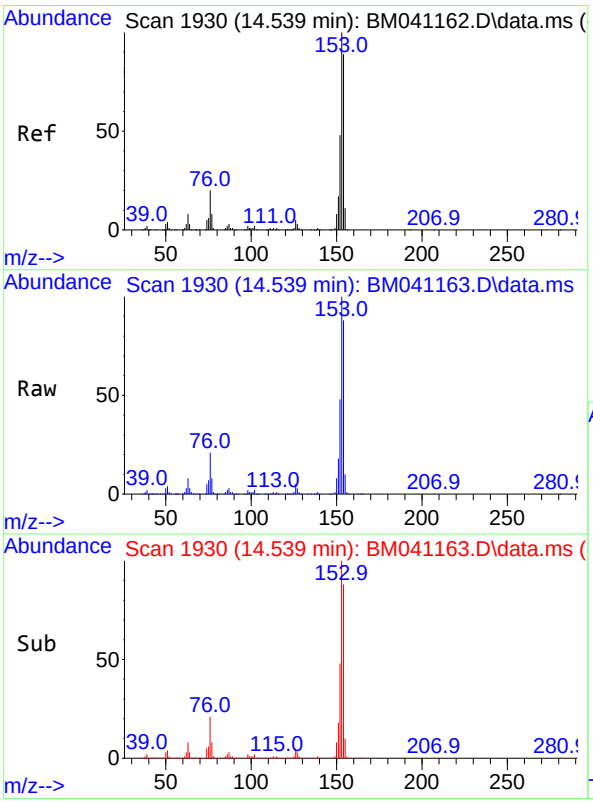
Ion	Ratio	Lower	Upper
165	100		
63	64.6	50.9	76.3
89	64.9	50.6	76.0

Instrument :
BNA_M
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

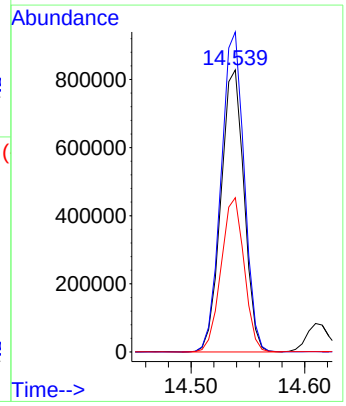


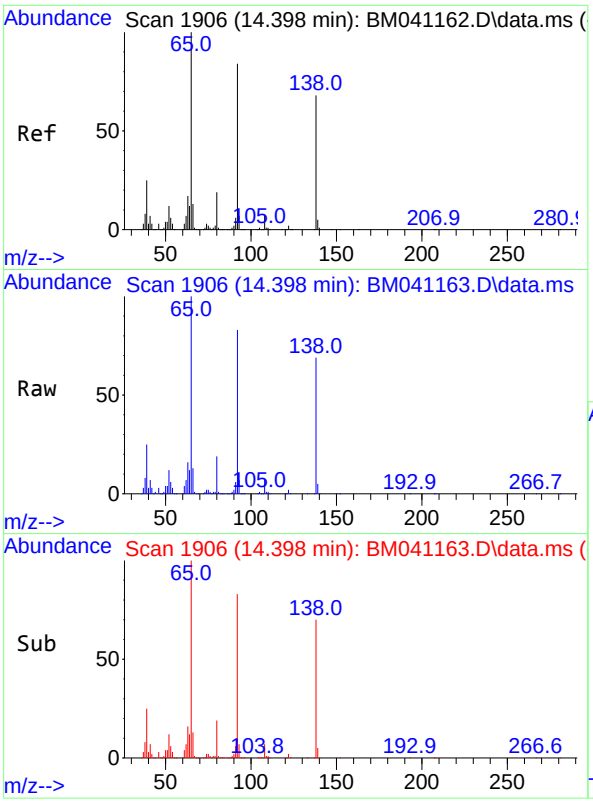


#52
Acenaphthene
Concen: 48.976 ng
RT: 14.539 min Scan# 1930
Delta R.T. -0.000 min
Lab File: BM041163.D
Acq: 28 Jul 2023 13:22

Tgt Ion:154 Resp: 1174990

Ion	Ratio	Lower	Upper
154	100		
153	113.4	90.2	135.4
152	54.7	43.4	65.0

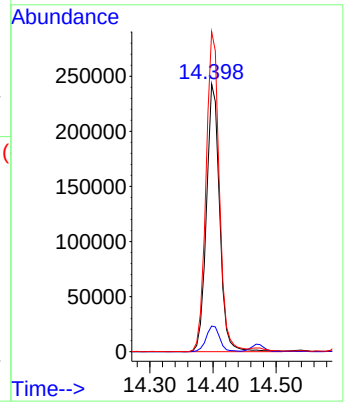




#53
3-Nitroaniline
Concen: 47.983 ng
RT: 14.398 min Scan# 1
Delta R.T. -0.000 min
Lab File: BM041163.D
Acq: 28 Jul 2023 13:22

Tgt Ion:138 Resp: 35273

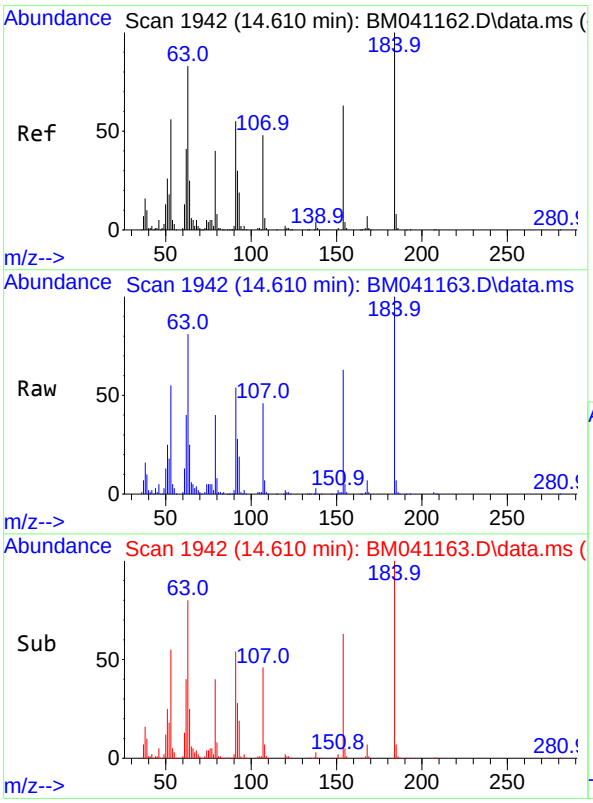
Ion	Ratio	Lower	Upper
138	100		
108	9.5	7.6	11.4
92	119.5	98.9	148.3



Instrument :
BNA_M
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

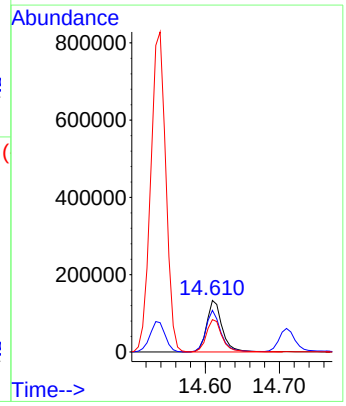
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

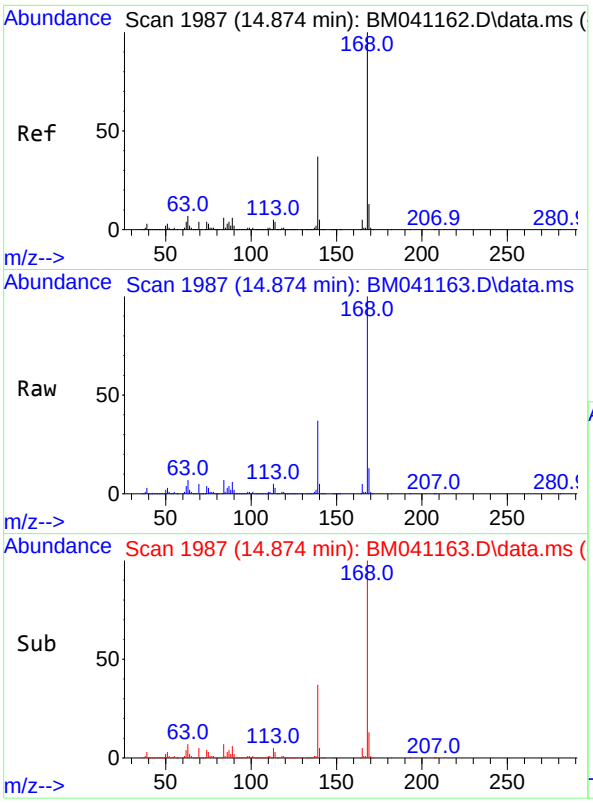


#54
2,4-Dinitrophenol
Concen: 47.536 ng
RT: 14.610 min Scan# 1942
Delta R.T. -0.000 min
Lab File: BM041163.D
Acq: 28 Jul 2023 13:22

Tgt Ion:184 Resp: 192977

Ion	Ratio	Lower	Upper
184	100		
63	80.7	66.5	99.7
154	62.6	52.8	79.2

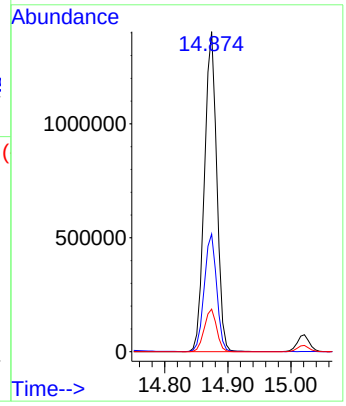




#55
Dibenzofuran
Concen: 48.560 ng
RT: 14.874 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM041163.D
Acq: 28 Jul 2023 13:22

Tgt Ion:168 Resp: 190077

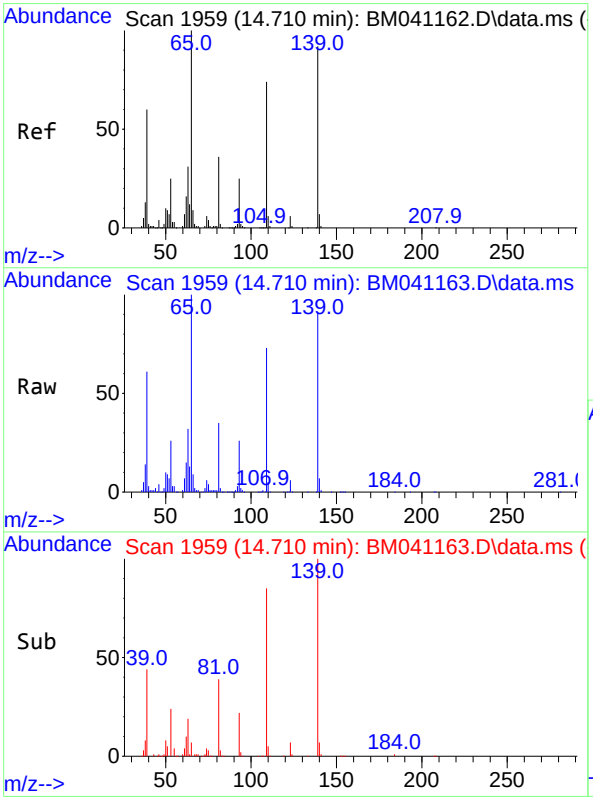
Ion	Ratio	Lower	Upper
168	100		
139	36.7	29.8	44.6
169	13.3	10.5	15.7



Instrument :
BNA_M
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

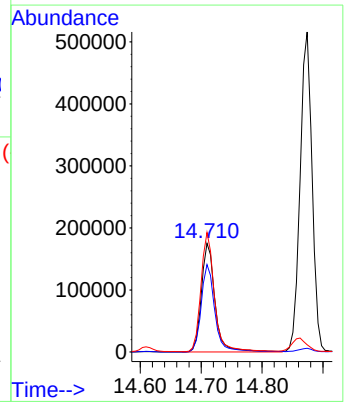
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

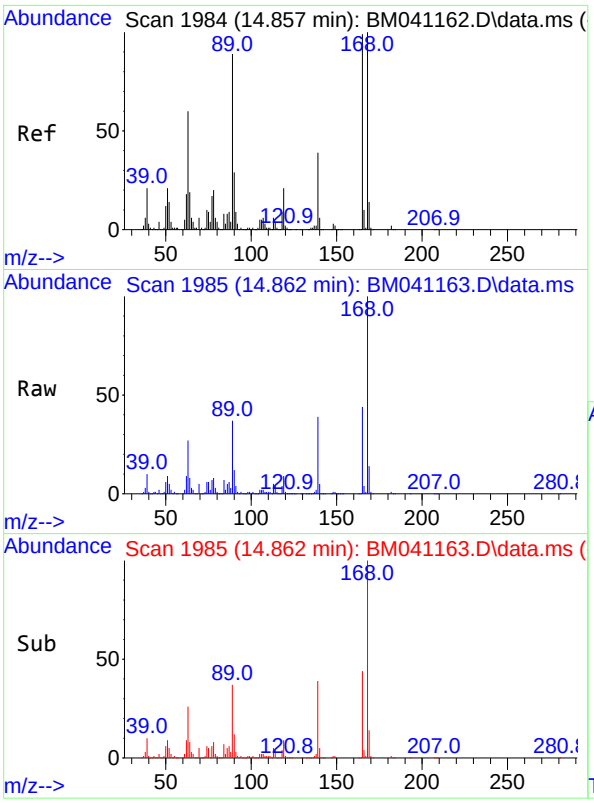


#56
4-Nitrophenol
Concen: 51.247 ng
RT: 14.710 min Scan# 1959
Delta R.T. -0.000 min
Lab File: BM041163.D
Acq: 28 Jul 2023 13:22

Tgt Ion:139 Resp: 271332

Ion	Ratio	Lower	Upper
139	100		
109	80.5	61.2	101.2
65	110.1	89.5	129.5

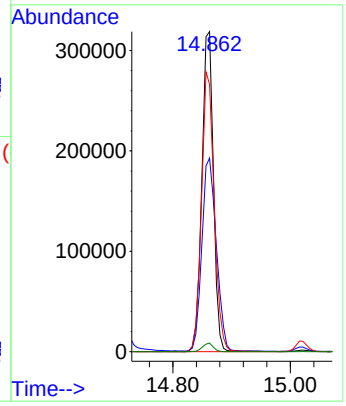




#57
2,4-Dinitrotoluene
Concen: 47.938 ng
RT: 14.862 min Scan# 1
Delta R.T. 0.005 min
Lab File: BM041163.D
Acq: 28 Jul 2023 13:22

Tgt Ion:165 Resp: 43487

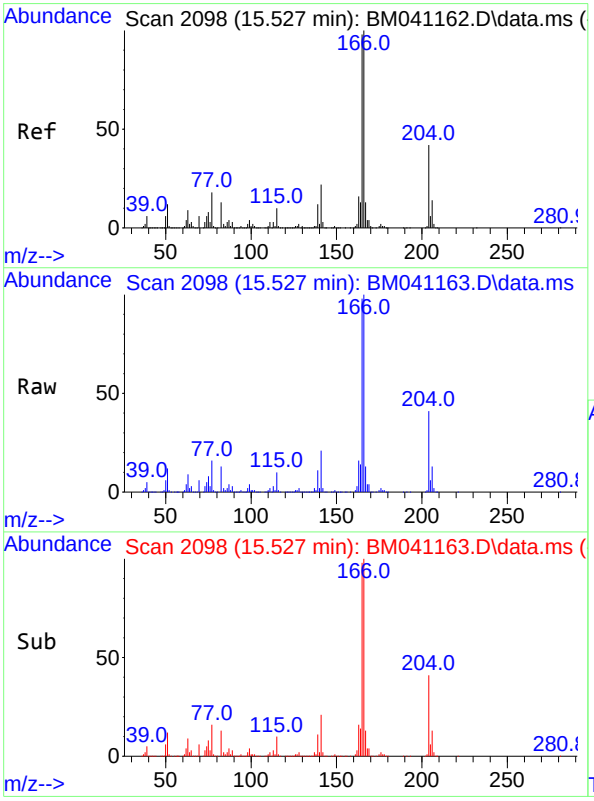
Ion	Ratio	Lower	Upper
165	100		
63	60.5	48.3	72.5
89	83.5	71.8	107.8
182	2.7	2.0	3.0



Instrument :
BNA_M
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

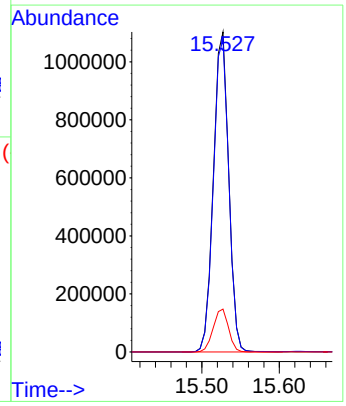
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

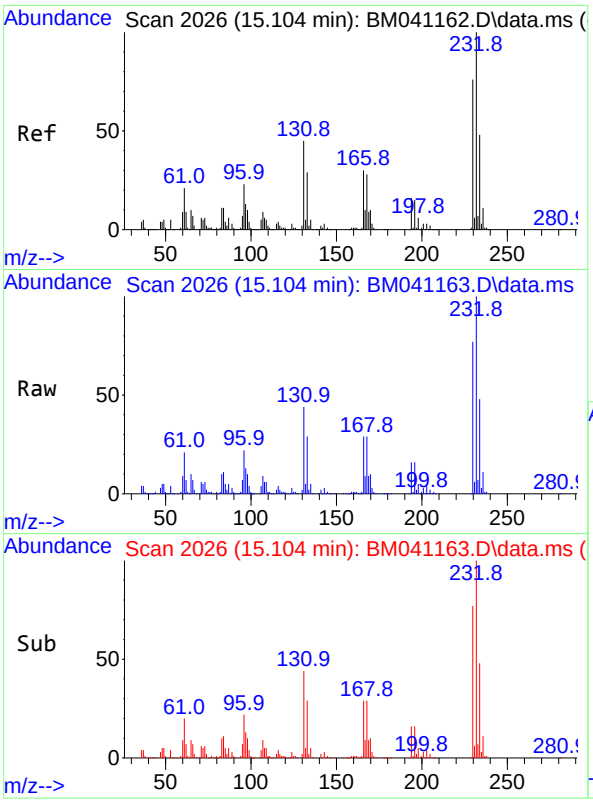


#58
Fluorene
Concen: 49.075 ng
RT: 15.527 min Scan# 2098
Delta R.T. -0.000 min
Lab File: BM041163.D
Acq: 28 Jul 2023 13:22

Tgt Ion:166 Resp: 1515403

Ion	Ratio	Lower	Upper
166	100		
165	97.6	78.2	117.4
167	13.4	10.6	16.0

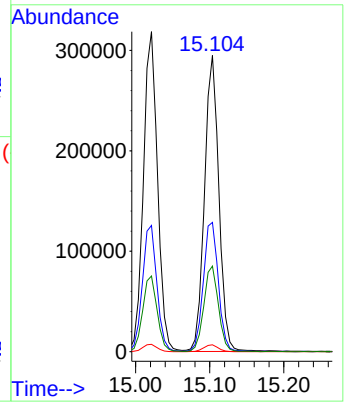




#59
2,3,4,6-Tetrachlorophenol
Concen: 49.992 ng
RT: 15.104 min Scan# 2
Delta R.T. -0.000 min
Lab File: BM041163.D
Acq: 28 Jul 2023 13:22

Tgt Ion:232 Resp: 39747

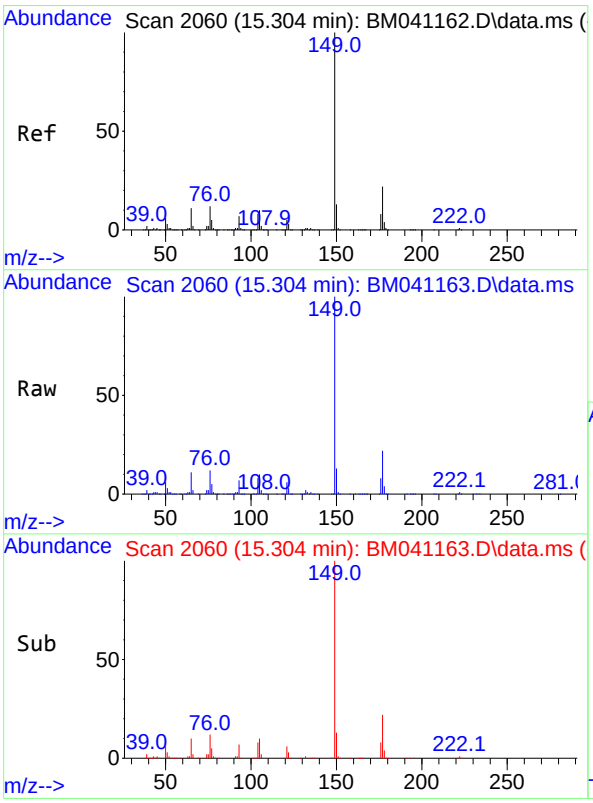
Ion	Ratio	Lower	Upper
232	100		
131	45.3	36.9	55.3
130	2.4	2.0	3.0
166	29.5	24.2	36.2



Instrument :
BNA_M
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

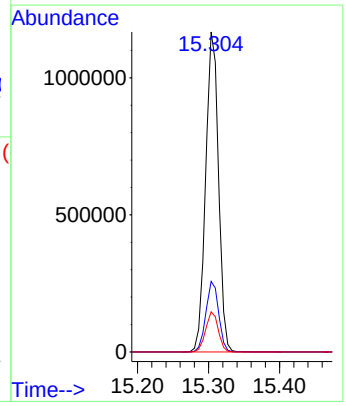
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

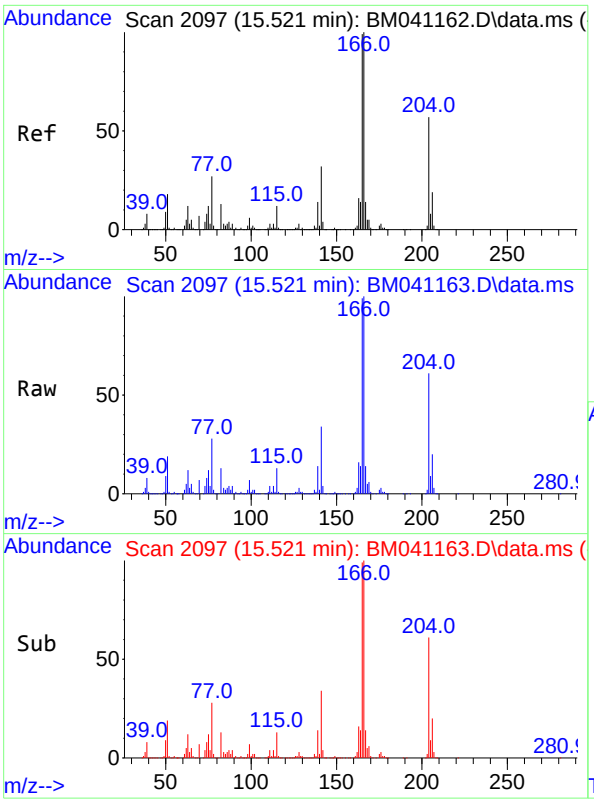


#60
Diethylphthalate
Concen: 49.634 ng
RT: 15.304 min Scan# 2060
Delta R.T. -0.000 min
Lab File: BM041163.D
Acq: 28 Jul 2023 13:22

Tgt Ion:149 Resp: 1471664

Ion	Ratio	Lower	Upper
149	100		
177	22.1	17.5	26.3
150	12.5	10.1	15.1

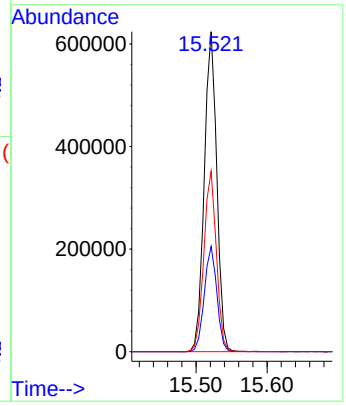




#61
4-Chlorophenyl-phenylether
Concen: 49.560 ng
RT: 15.521 min Scan# 2
Delta R.T. -0.000 min
Lab File: BM041163.D
Acq: 28 Jul 2023 13:22

Tgt Ion:204 Resp: 76688

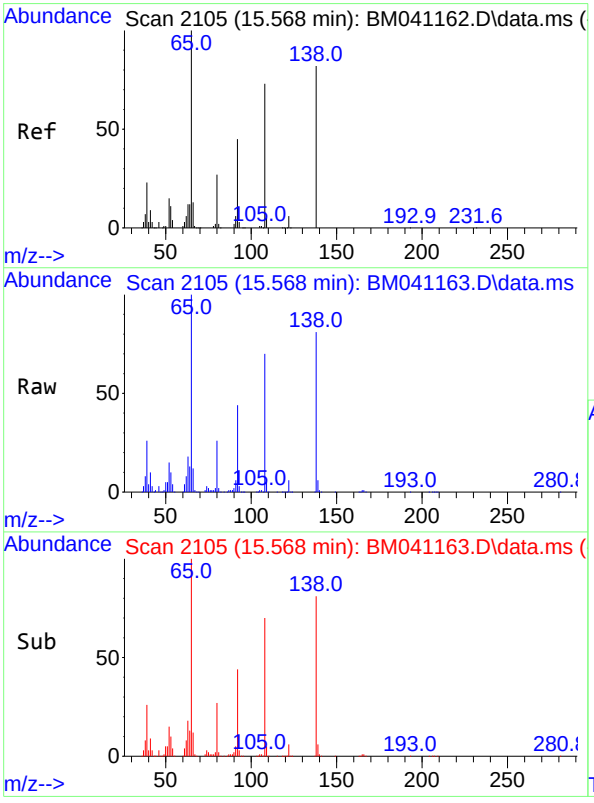
Ion	Ratio	Lower	Upper
204	100		
206	32.9	26.5	39.7
141	56.3	44.8	67.2



Instrument :
BNA_M
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

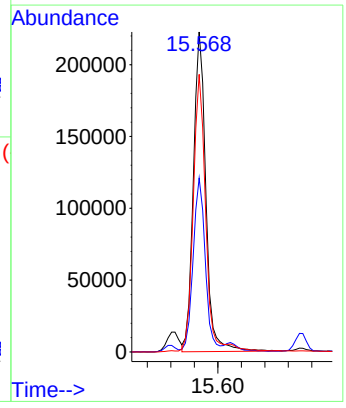
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

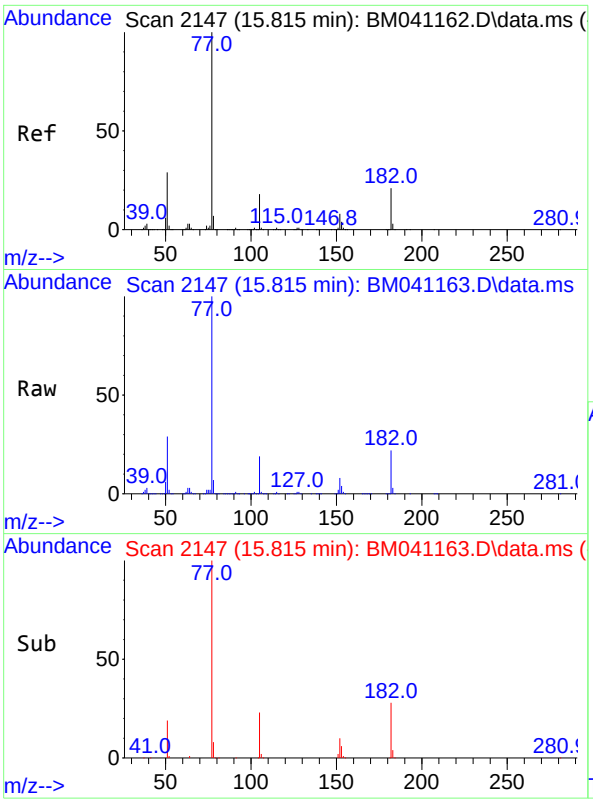


#62
4-Nitroaniline
Concen: 48.386 ng
RT: 15.568 min Scan# 2105
Delta R.T. 0.000 min
Lab File: BM041163.D
Acq: 28 Jul 2023 13:22

Tgt Ion:138 Resp: 328100

Ion	Ratio	Lower	Upper
138	100		
92	54.3	35.1	75.1
108	86.7	67.8	107.8

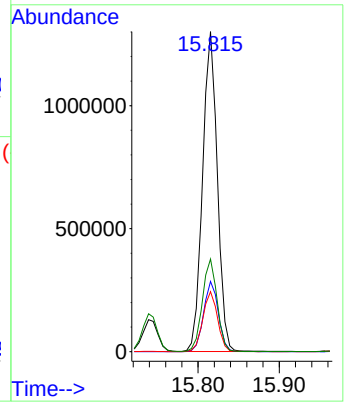




#63
Azobenzene
Concen: 50.513 ng
RT: 15.815 min Scan# 21
Delta R.T. 0.000 min
Lab File: BM041163.D
Acq: 28 Jul 2023 13:22

Tgt Ion: 77 Resp: 164061

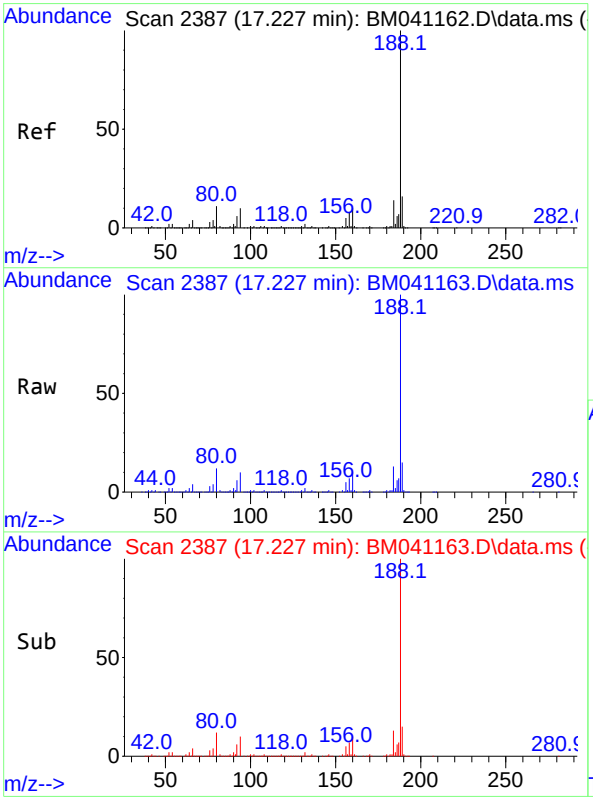
Ion	Ratio	Lower	Upper
77	100		
182	22.0	1.3	41.3
105	18.8	0.0	38.5
51	29.0	9.1	49.1



Instrument :
BNA_M
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

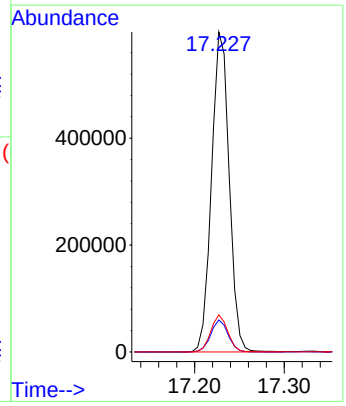
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

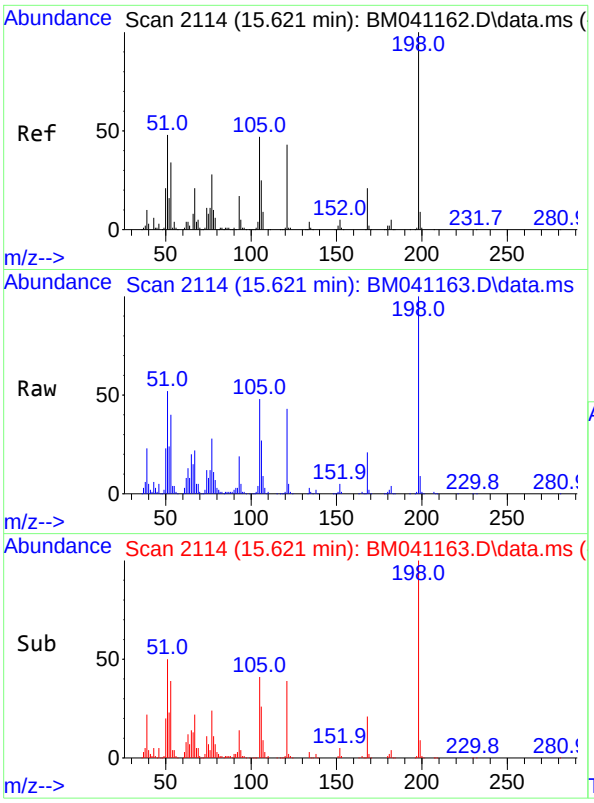


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.227 min Scan# 2387
Delta R.T. -0.000 min
Lab File: BM041163.D
Acq: 28 Jul 2023 13:22

Tgt Ion:188 Resp: 816045

Ion	Ratio	Lower	Upper
188	100		
94	10.0	8.2	12.2
80	11.6	8.6	13.0

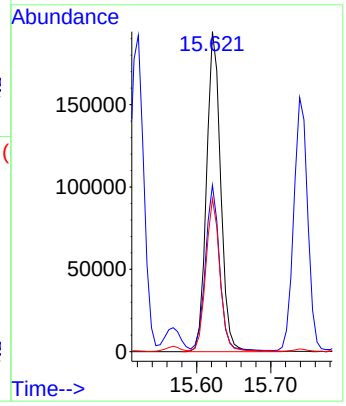




#65
4,6-Dinitro-2-methylphenol
Concen: 52.115 ng
RT: 15.621 min Scan# 2
Delta R.T. 0.000 min
Lab File: BM041163.D
Acq: 28 Jul 2023 13:22

Tgt Ion:198 Resp: 25763

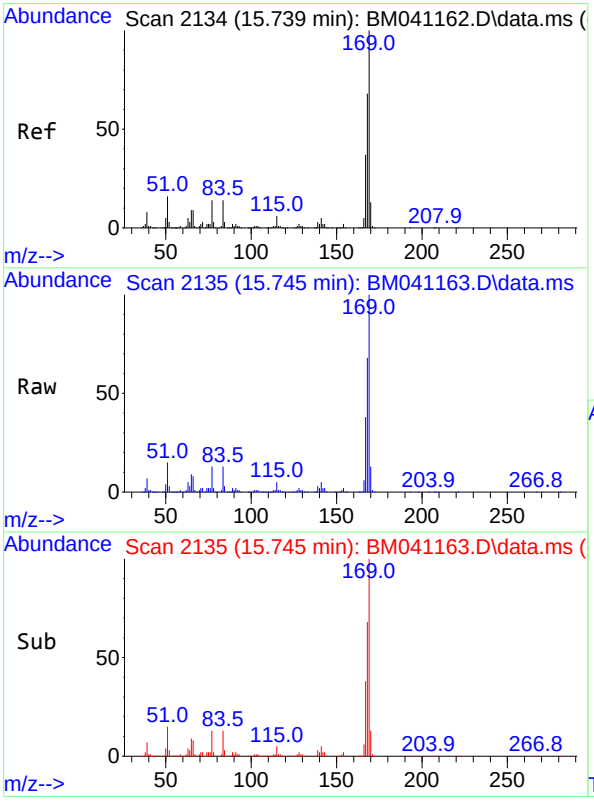
Ion	Ratio	Lower	Upper
198	100		
51	52.1	31.7	71.7
105	47.8	27.8	67.8



Instrument :
BNA_M
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

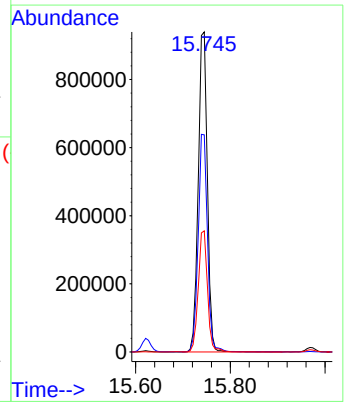
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

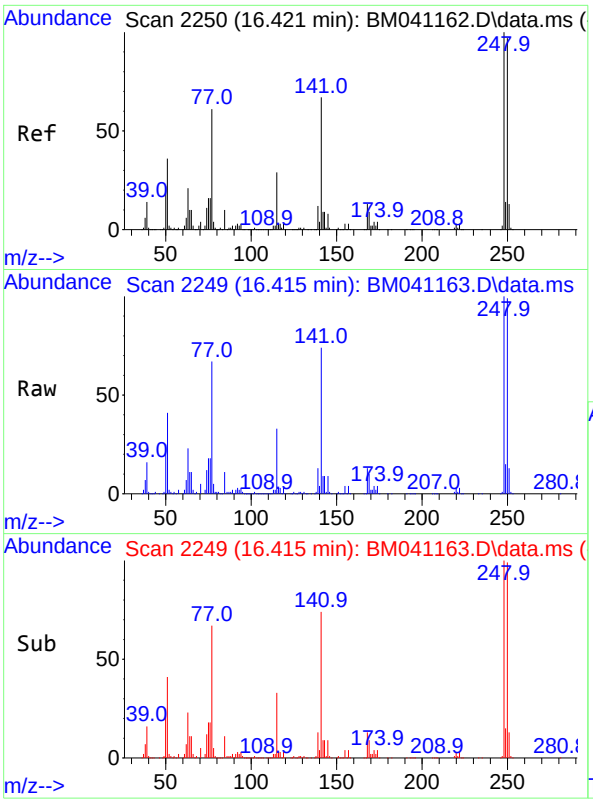


#66
n-Nitrosodiphenylamine
Concen: 49.381 ng
RT: 15.745 min Scan# 2135
Delta R.T. 0.006 min
Lab File: BM041163.D
Acq: 28 Jul 2023 13:22

Tgt Ion:169 Resp: 1253277

Ion	Ratio	Lower	Upper
169	100		
168	67.9	54.6	81.8
167	37.9	29.9	44.9

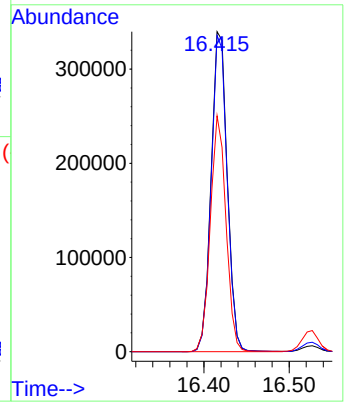




#67
4-Bromophenyl-phenylether
Concen: 50.077 ng
RT: 16.415 min Scan# 2
Delta R.T. -0.006 min
Lab File: BM041163.D
Acq: 28 Jul 2023 13:22

Tgt Ion:248 Resp: 44805

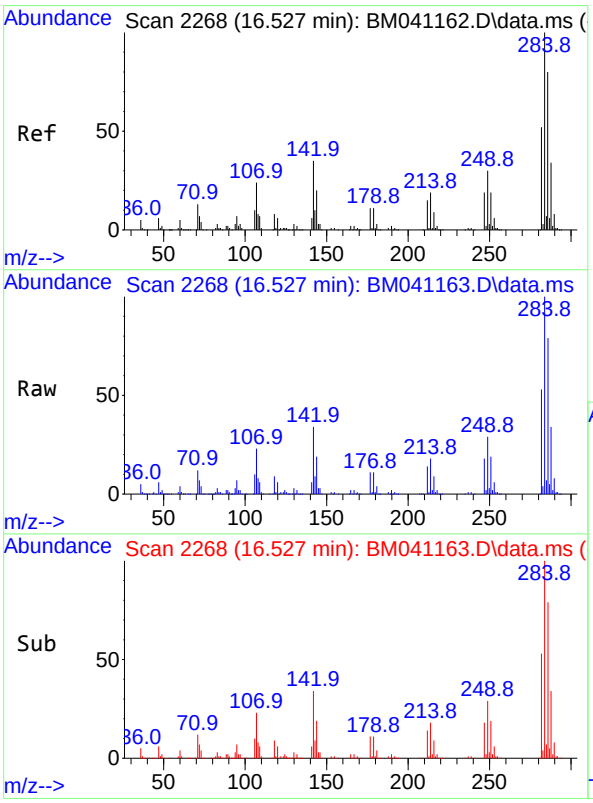
Ion	Ratio	Lower	Upper
248	100		
250	98.8	78.0	117.0
141	73.7	53.8	80.8



Instrument :
BNA_M
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

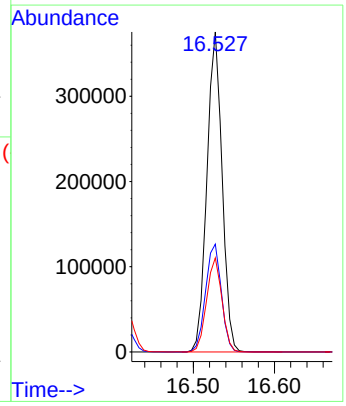
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

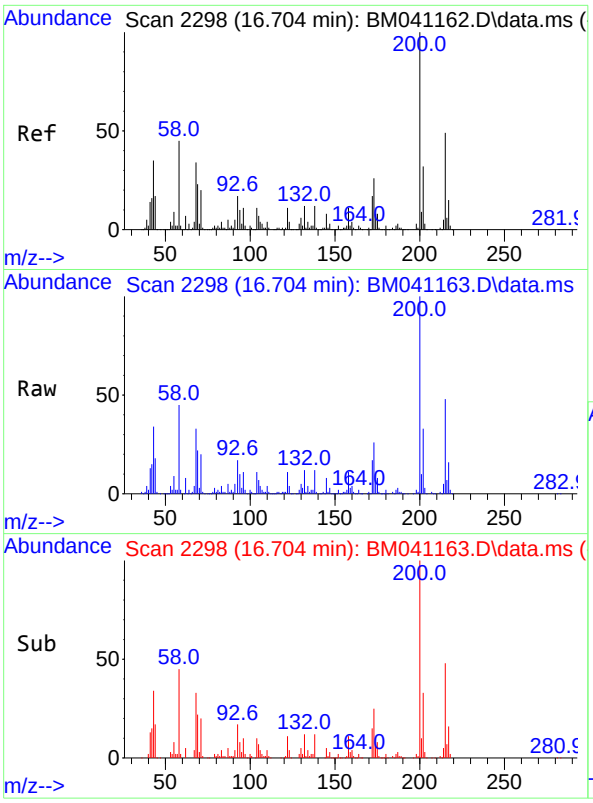


#68
Hexachlorobenzene
Concen: 48.924 ng
RT: 16.527 min Scan# 2268
Delta R.T. -0.000 min
Lab File: BM041163.D
Acq: 28 Jul 2023 13:22

Tgt Ion:284 Resp: 486746

Ion	Ratio	Lower	Upper
284	100		
142	33.7	28.0	42.0
249	29.4	23.7	35.5

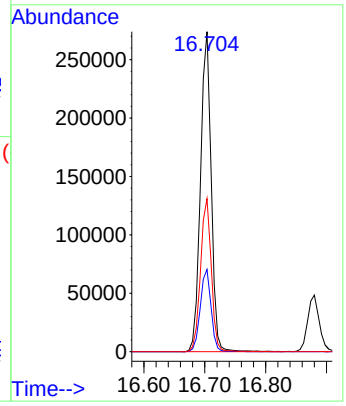




#69
Atrazine
Concen: 50.088 ng
RT: 16.704 min Scan# 2
Delta R.T. -0.000 min
Lab File: BM041163.D
Acq: 28 Jul 2023 13:22

Tgt Ion:200 Resp: 33384

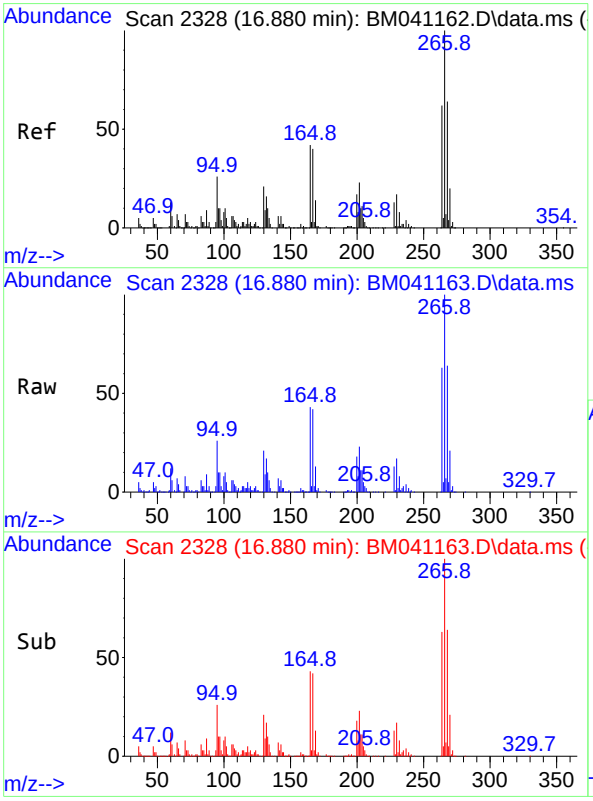
Ion	Ratio	Lower	Upper
200	100		
173	25.7	5.6	45.6
215	47.8	28.5	68.5



Instrument :
BNA_M
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

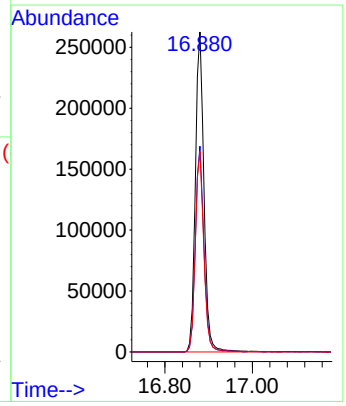
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

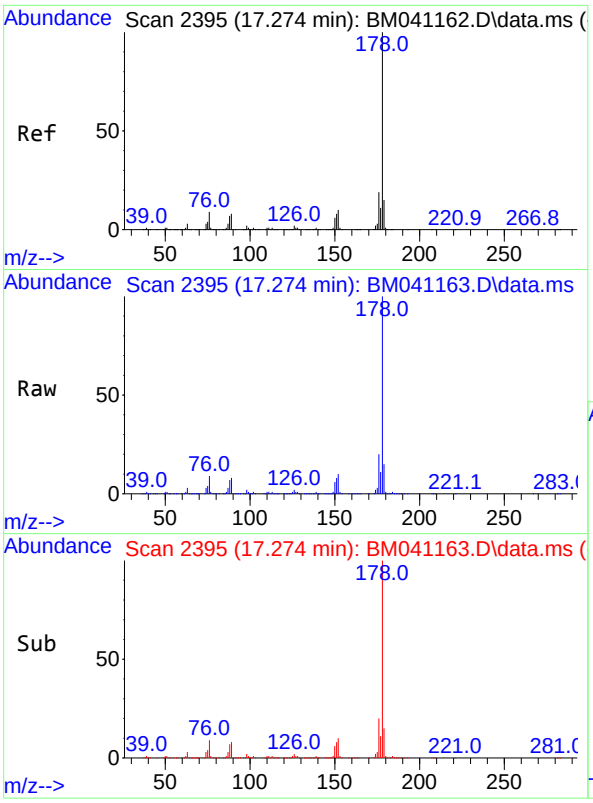


#70
Pentachlorophenol
Concen: 52.041 ng
RT: 16.880 min Scan# 2328
Delta R.T. -0.000 min
Lab File: BM041163.D
Acq: 28 Jul 2023 13:22

Tgt Ion:266 Resp: 358525

Ion	Ratio	Lower	Upper
266	100		
268	64.3	51.0	76.6
264	62.6	49.4	74.2

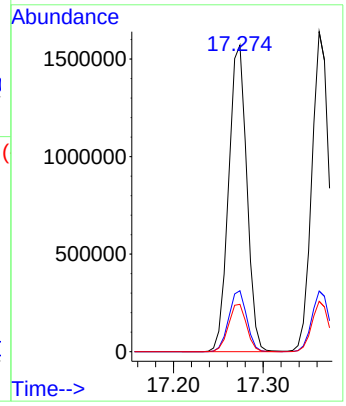




#71
Phenanthrene
Concen: 48.714 ng
RT: 17.274 min Scan# 2
Delta R.T. -0.000 min
Lab File: BM041163.D
Acq: 28 Jul 2023 13:22

Tgt Ion:178 Resp: 220869

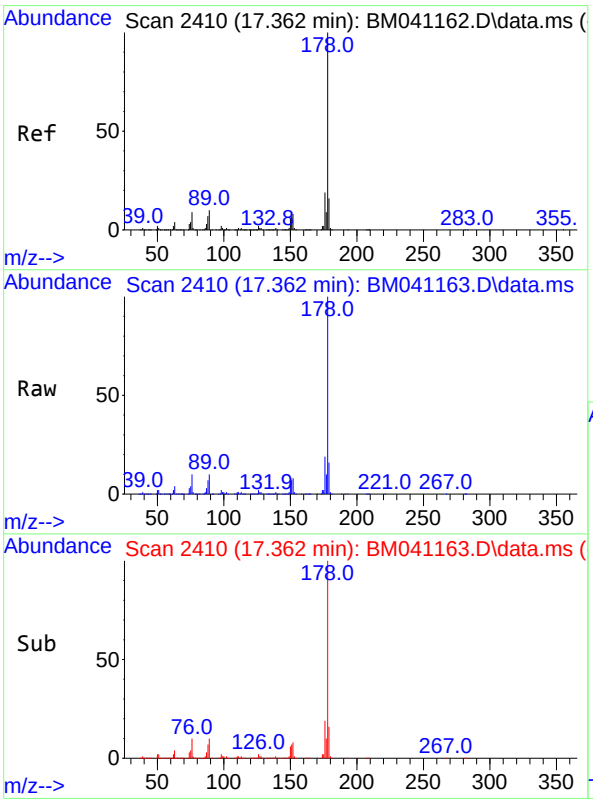
Ion	Ratio	Lower	Upper
178	100		
176	19.9	15.6	23.4
179	15.4	12.1	18.1



Instrument :
BNA_M
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

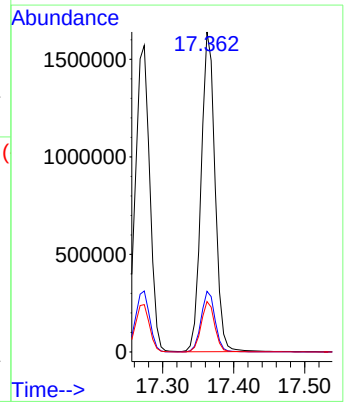
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

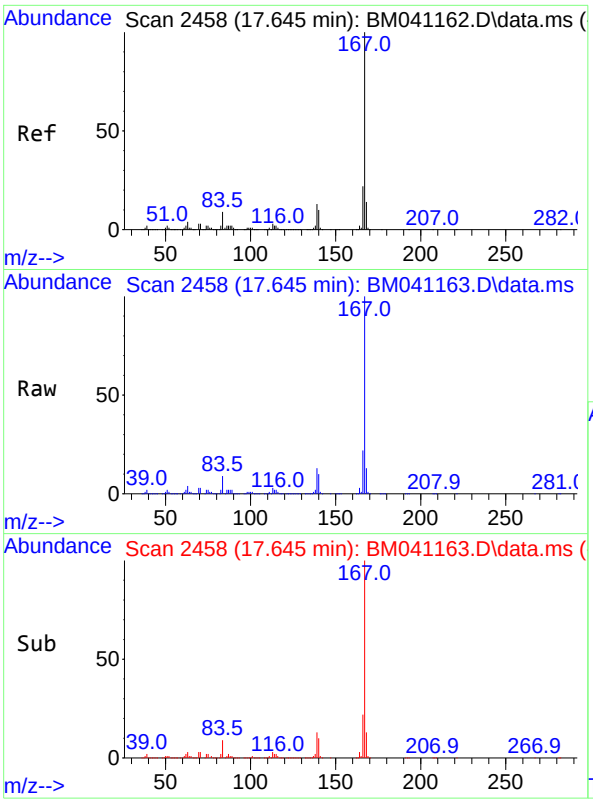


#72
Anthracene
Concen: 49.692 ng
RT: 17.362 min Scan# 2410
Delta R.T. -0.000 min
Lab File: BM041163.D
Acq: 28 Jul 2023 13:22

Tgt Ion:178 Resp: 2228300

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.2	22.8
179	15.7	12.4	18.6

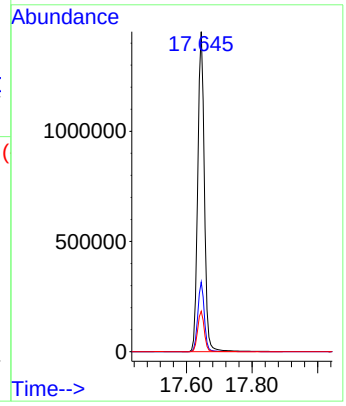




#73
Carbazole
Concen: 50.334 ng
RT: 17.645 min Scan# 24
Delta R.T. -0.000 min
Lab File: BM041163.D
Acq: 28 Jul 2023 13:22

Tgt Ion:167 Resp: 204287(

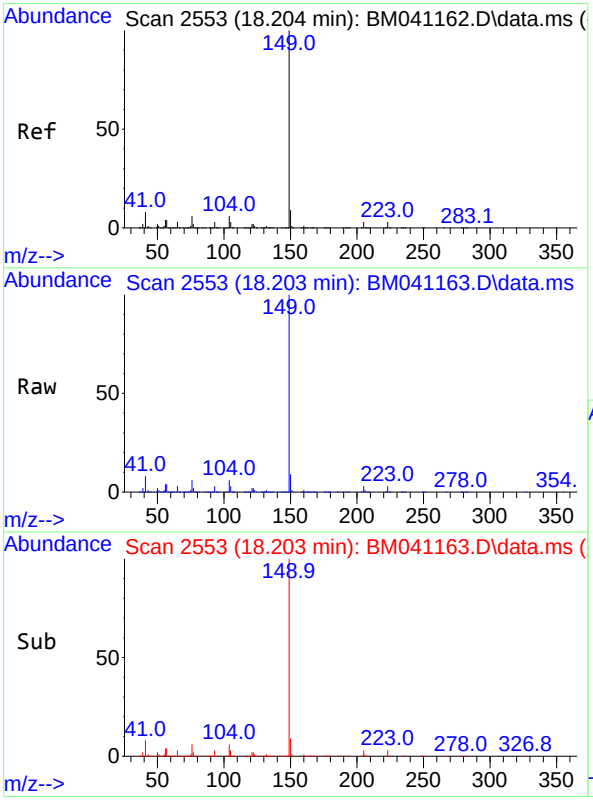
Ion	Ratio	Lower	Upper
167	100		
166	21.7	17.3	25.9
139	12.7	10.3	15.5



Instrument :
BNA_M
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

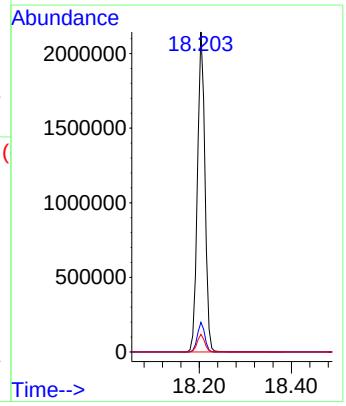
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

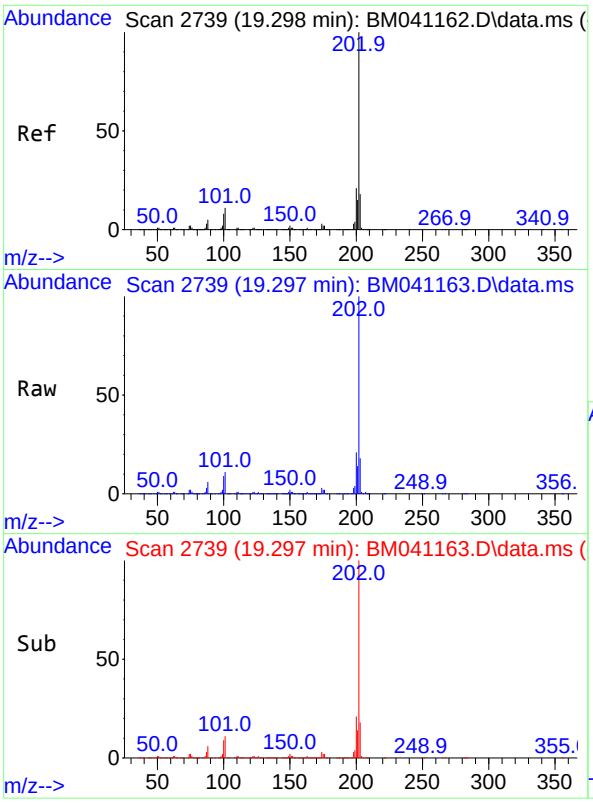


#74
Di-n-butylphthalate
Concen: 52.503 ng
RT: 18.203 min Scan# 2553
Delta R.T. -0.000 min
Lab File: BM041163.D
Acq: 28 Jul 2023 13:22

Tgt Ion:149 Resp: 2407938

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.3	10.9
104	5.5	4.5	6.7

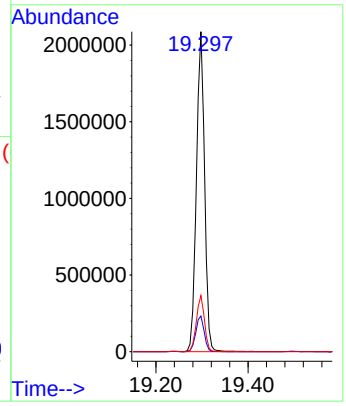




#75
Fluoranthene
Concen: 50.197 ng
RT: 19.297 min Scan# 2
Delta R.T. -0.000 min
Lab File: BM041163.D
Acq: 28 Jul 2023 13:22

Tgt Ion:202 Resp: 255696

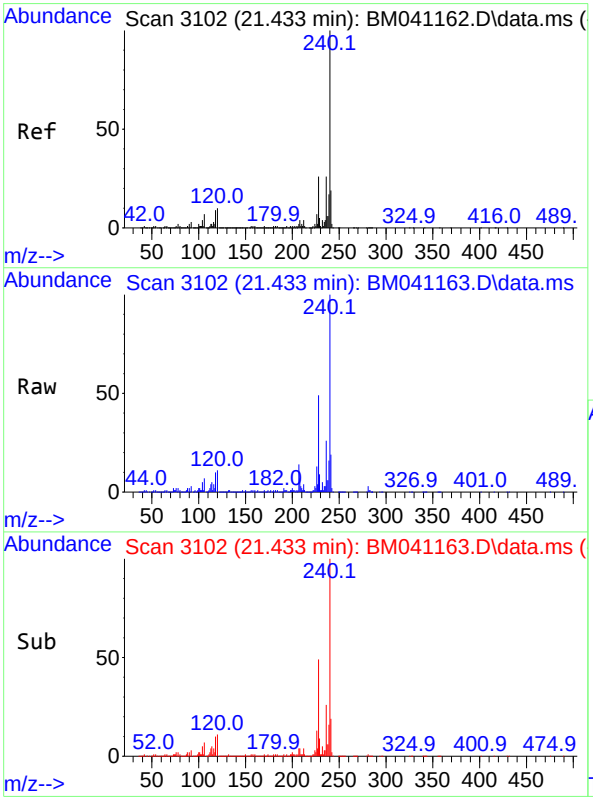
Ion	Ratio	Lower	Upper
202	100		
101	11.2	0.0	30.8
203	17.6	0.0	37.6



Instrument :
BNA_M
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

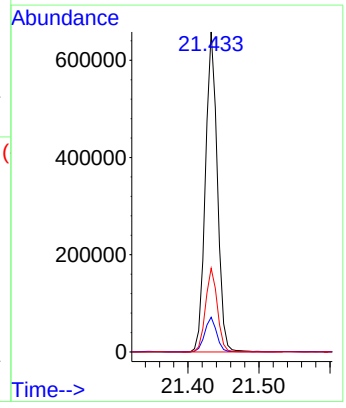
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

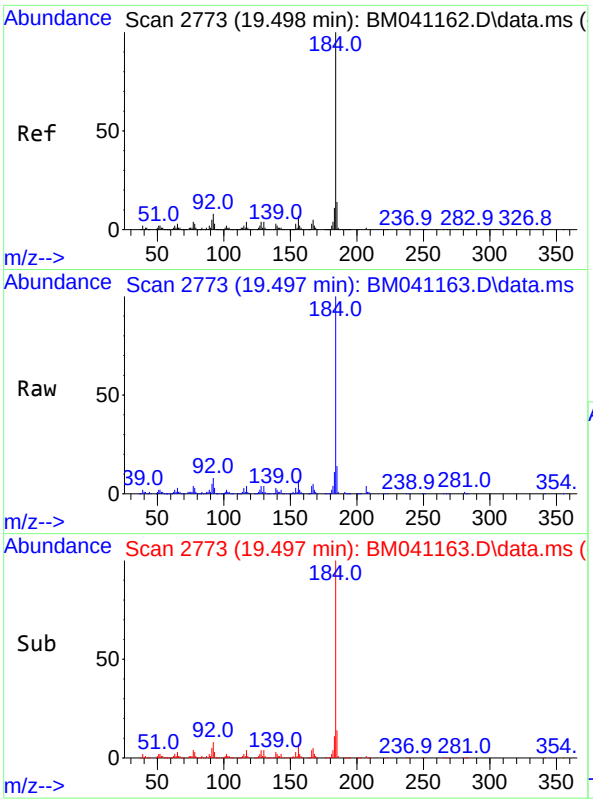


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.433 min Scan# 3102
Delta R.T. -0.000 min
Lab File: BM041163.D
Acq: 28 Jul 2023 13:22

Tgt Ion:240 Resp: 771285

Ion	Ratio	Lower	Upper
240	100		
120	10.8	8.3	12.5
236	26.1	20.6	30.8

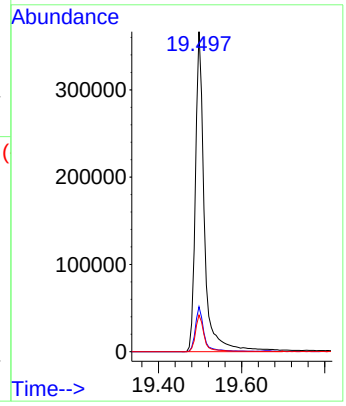




#77
Benzidine
Concen: 52.370 ng
RT: 19.497 min Scan# 2
Delta R.T. -0.001 min
Lab File: BM041163.D
Acq: 28 Jul 2023 13:22

Tgt Ion:184 Resp: 55306

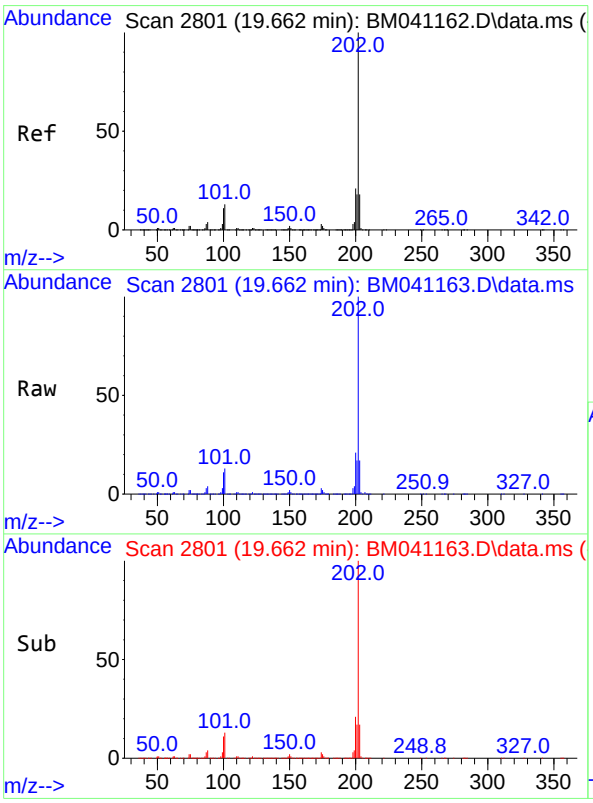
Ion	Ratio	Lower	Upper
184	100		
185	14.0	11.4	17.0
183	11.4	9.2	13.8



Instrument :
BNA_M
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

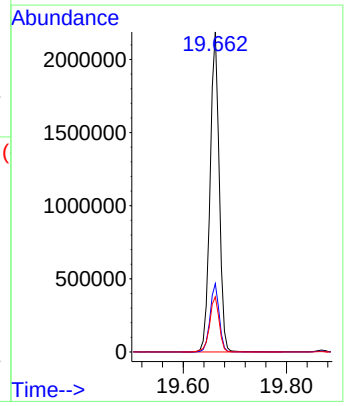
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

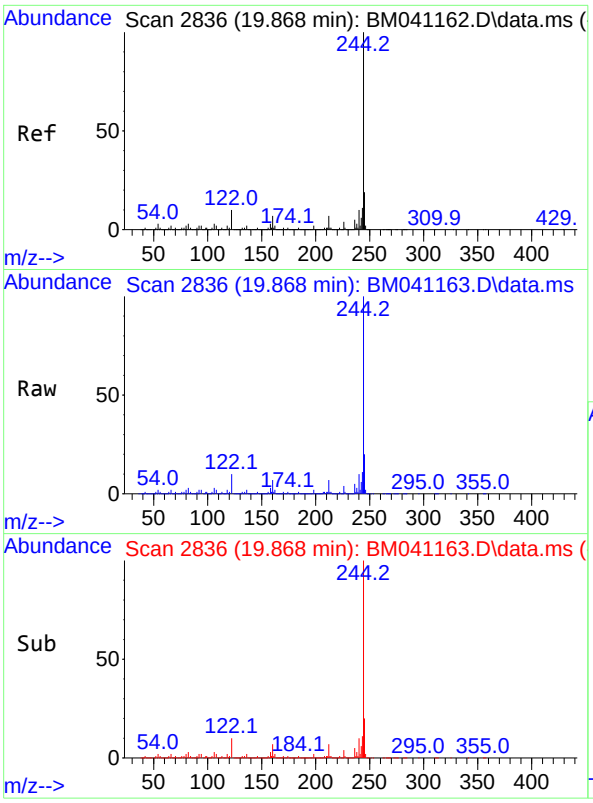


#78
Pyrene
Concen: 49.630 ng
RT: 19.662 min Scan# 2801
Delta R.T. -0.000 min
Lab File: BM041163.D
Acq: 28 Jul 2023 13:22

Tgt Ion:202 Resp: 2676907

Ion	Ratio	Lower	Upper
202	100		
200	21.4	16.9	25.3
203	17.3	14.1	21.1

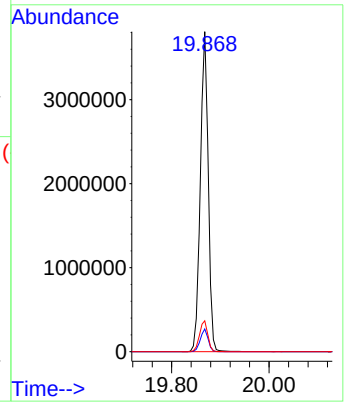




#79
Terphenyl-d14
Concen: 101.258 ng
RT: 19.868 min Scan# 2
Delta R.T. -0.000 min
Lab File: BM041163.D
Acq: 28 Jul 2023 13:22

Tgt Ion:244 Resp: 431948

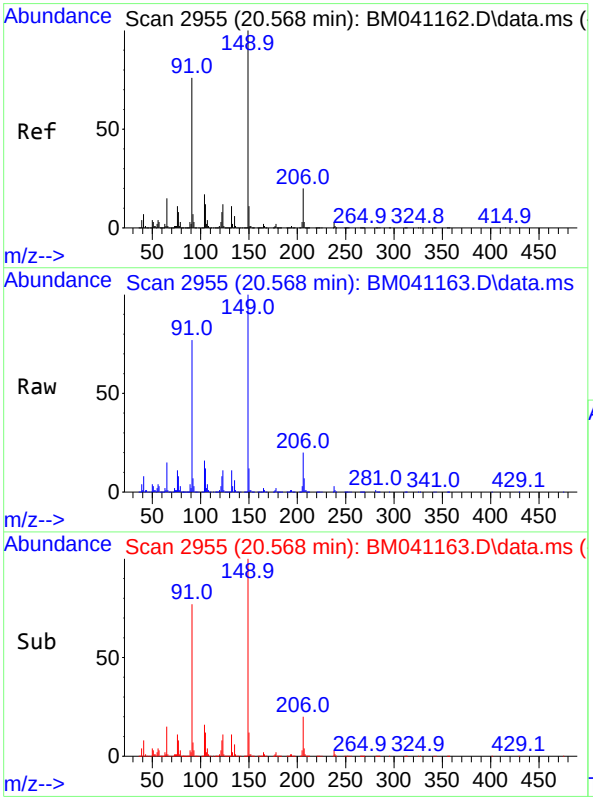
Ion	Ratio	Lower	Upper
244	100		
212	7.1	5.4	8.2
122	9.6	7.8	11.6



Instrument :
BNA_M
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

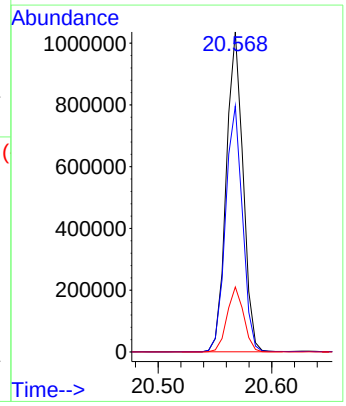
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

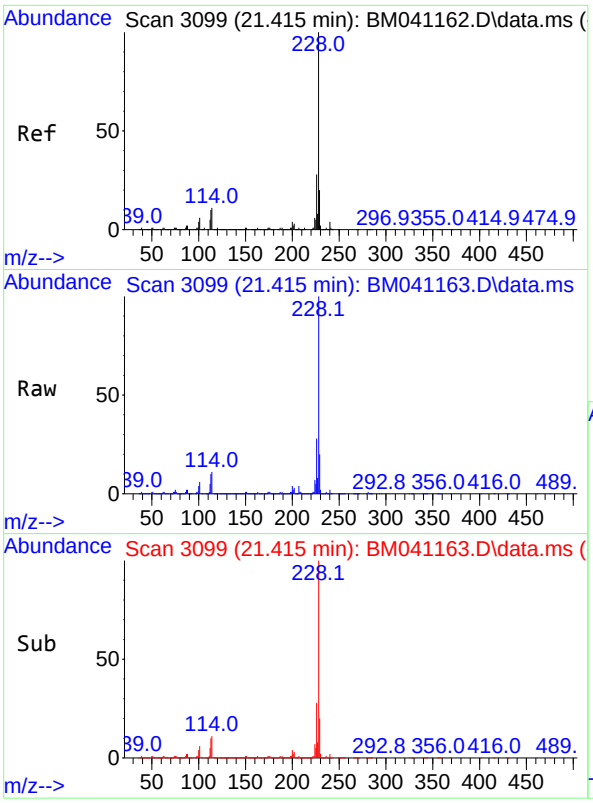


#80
Butylbenzylphthalate
Concen: 53.842 ng
RT: 20.568 min Scan# 2955
Delta R.T. -0.000 min
Lab File: BM041163.D
Acq: 28 Jul 2023 13:22

Tgt Ion:149 Resp: 1060513

Ion	Ratio	Lower	Upper
149	100		
91	76.9	60.8	91.2
206	20.3	16.4	24.6

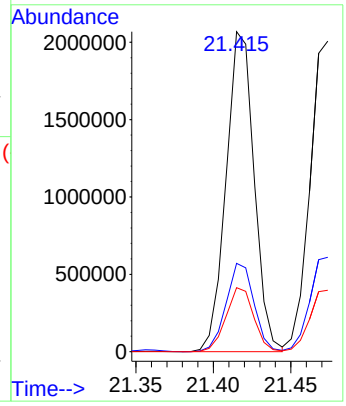




#81
Benzo(a)anthracene
Concen: 49.809 ng
RT: 21.415 min Scan# 3
Delta R.T. -0.000 min
Lab File: BM041163.D
Acq: 28 Jul 2023 13:22

Tgt Ion:228 Resp: 260436

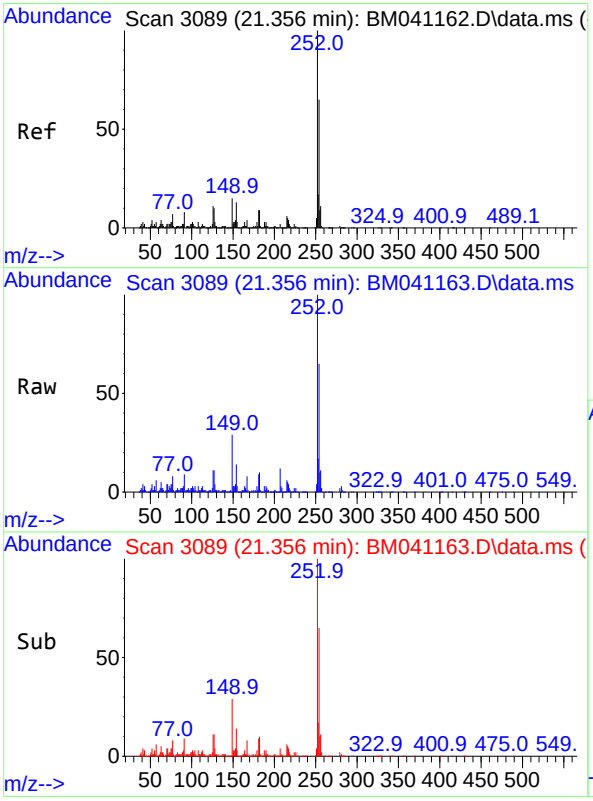
Ion	Ratio	Lower	Upper
228	100		
226	27.6	22.4	33.6
229	20.0	15.8	23.8



Instrument :
BNA_M
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

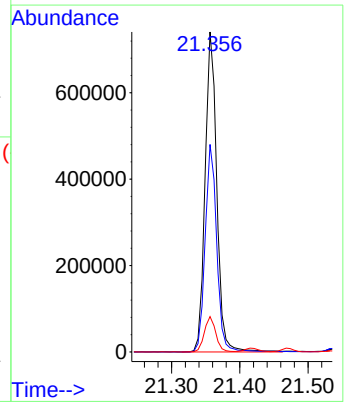
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

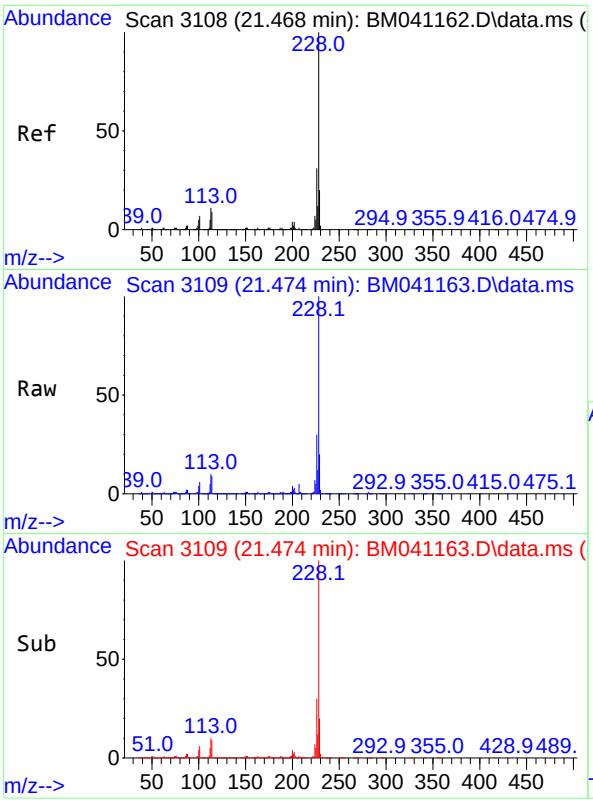


#82
3,3'-Dichlorobenzidine
Concen: 51.758 ng
RT: 21.356 min Scan# 3089
Delta R.T. -0.000 min
Lab File: BM041163.D
Acq: 28 Jul 2023 13:22

Tgt Ion:252 Resp: 883078

Ion	Ratio	Lower	Upper
252	100		
254	64.9	51.8	77.6
126	11.1	8.6	13.0

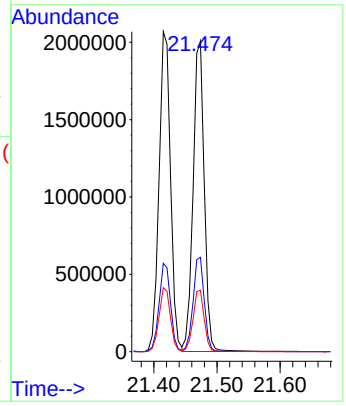




#83
Chrysene
Concen: 48.863 ng
RT: 21.474 min Scan# 3
Delta R.T. 0.006 min
Lab File: BM041163.D
Acq: 28 Jul 2023 13:22

Tgt Ion:228 Resp: 247121

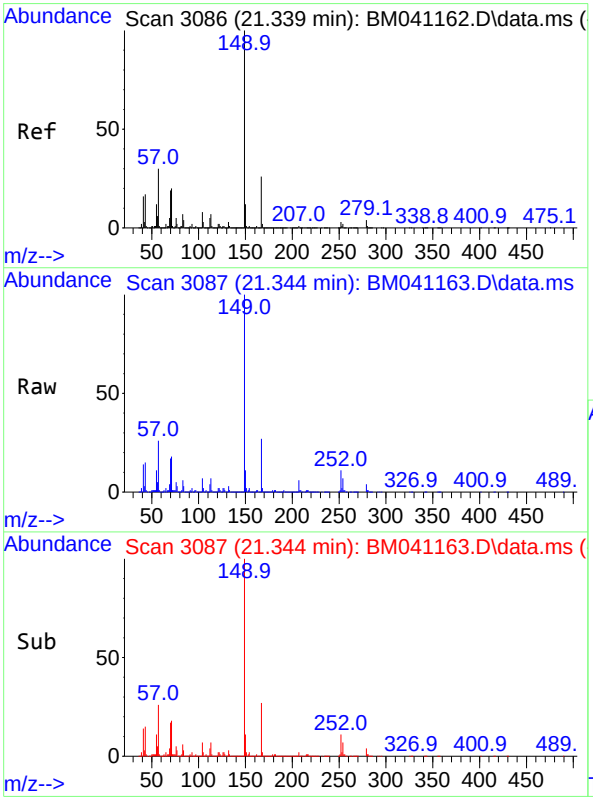
Ion	Ratio	Lower	Upper
228	100		
226	30.4	24.5	36.7
229	19.8	15.8	23.8



Instrument :
BNA_M
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

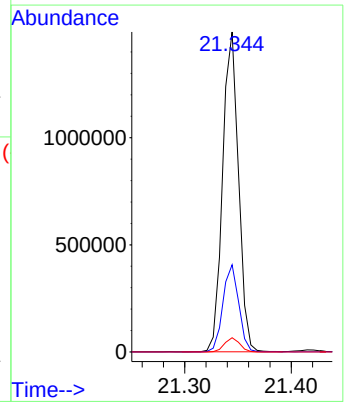
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

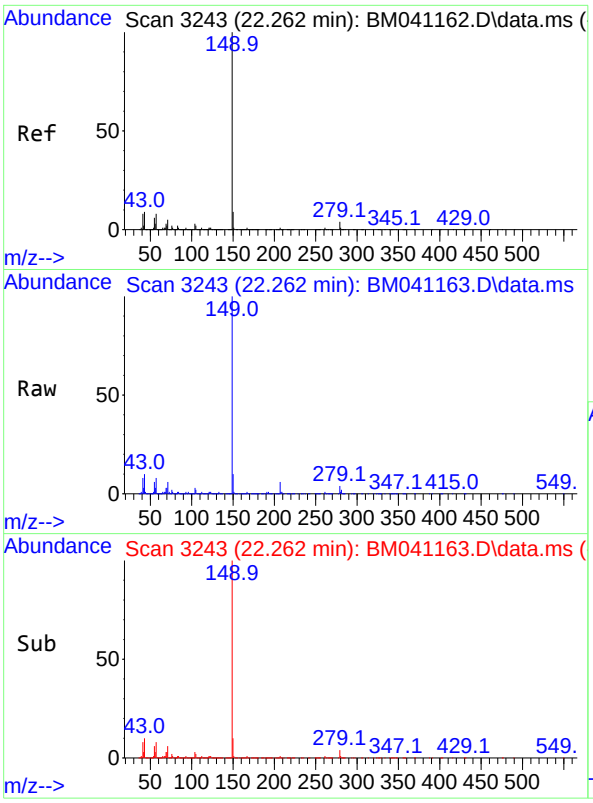


#84
Bis(2-ethylhexyl)phthalate
Concen: 49.143 ng
RT: 21.344 min Scan# 3087
Delta R.T. 0.005 min
Lab File: BM041163.D
Acq: 28 Jul 2023 13:22

Tgt Ion:149 Resp: 1539184

Ion	Ratio	Lower	Upper
149	100		
167	27.2	21.0	31.6
279	4.4	3.1	4.7

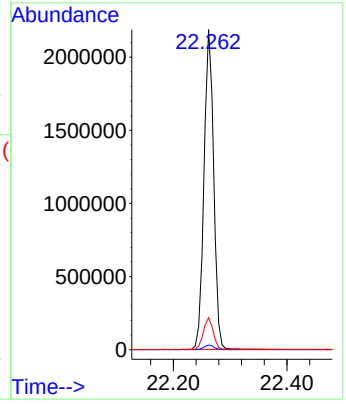




#85
Di-n-octyl phthalate
Concen: 51.900 ng
RT: 22.262 min Scan# 3
Delta R.T. -0.000 min
Lab File: BM041163.D
Acq: 28 Jul 2023 13:22

Tgt Ion:149 Resp: 258359

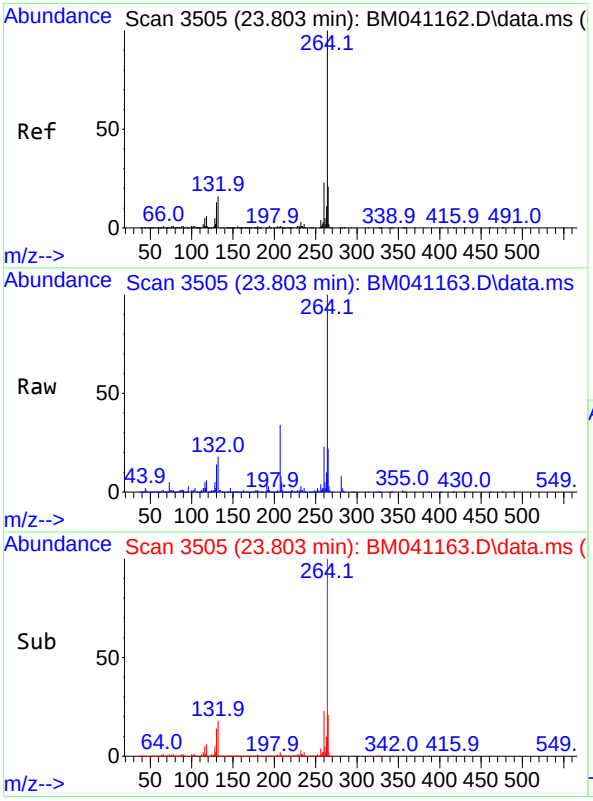
Ion	Ratio	Lower	Upper
149	100		
167	1.5	1.2	1.8
43	10.3	8.3	12.5



Instrument :
BNA_M
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

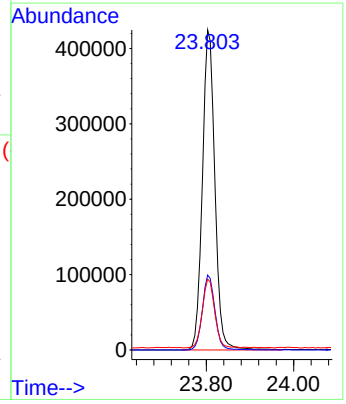
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

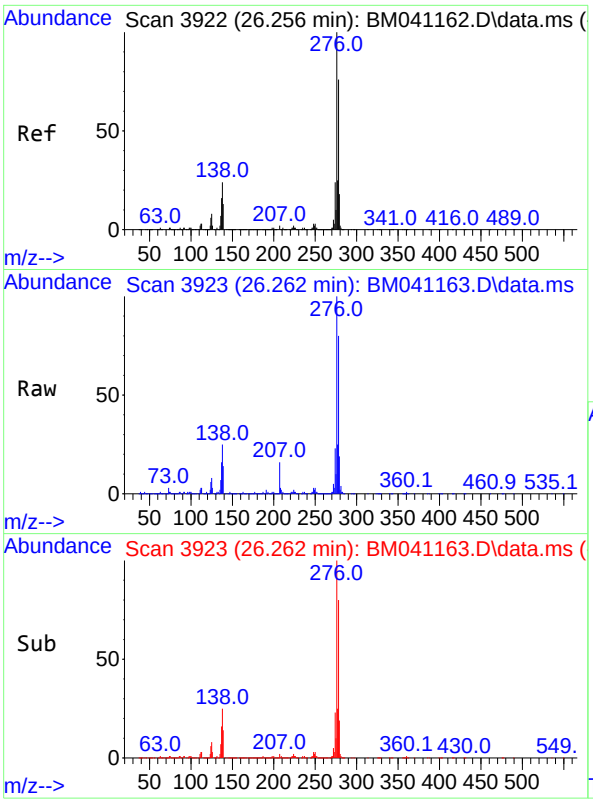


#86
Perylene-d12
Concen: 20.000 ng
RT: 23.803 min Scan# 3505
Delta R.T. -0.000 min
Lab File: BM041163.D
Acq: 28 Jul 2023 13:22

Tgt Ion:264 Resp: 844032

Ion	Ratio	Lower	Upper
264	100		
260	23.4	18.5	27.7
265	22.1	17.4	26.0

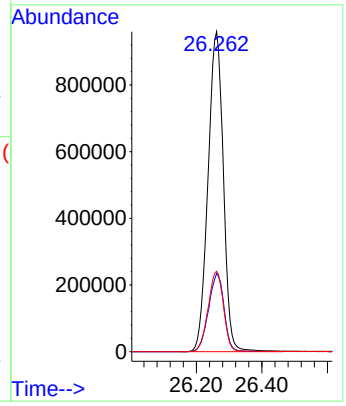




#87
Indeno(1,2,3-cd)pyrene
Concen: 50.403 ng
RT: 26.262 min Scan# 3
Delta R.T. 0.006 min
Lab File: BM041163.D
Acq: 28 Jul 2023 13:22

Tgt Ion:276 Resp: 312771

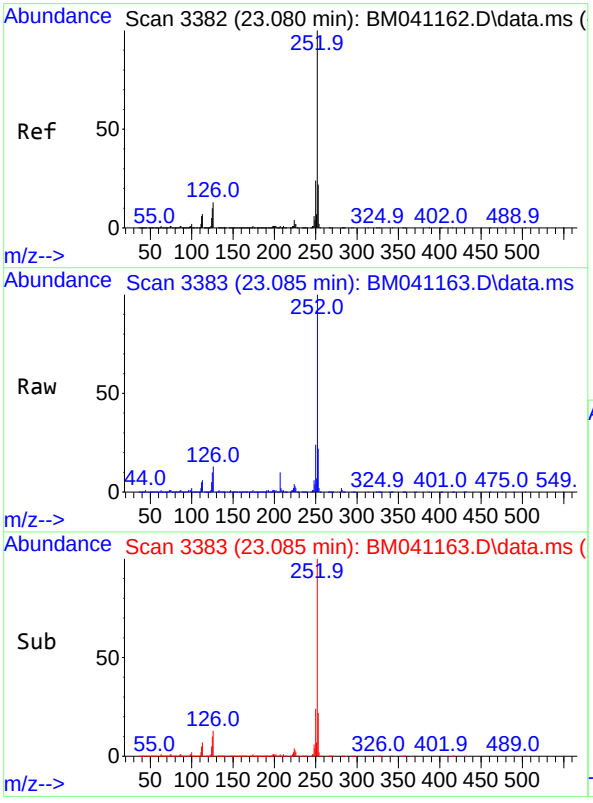
Ion	Ratio	Lower	Upper
276	100		
138	24.6	20.0	30.0
277	25.3	20.1	30.1



Instrument :
BNA_M
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

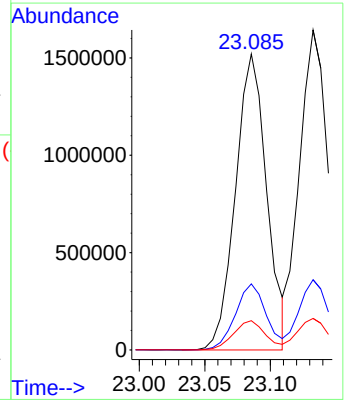
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

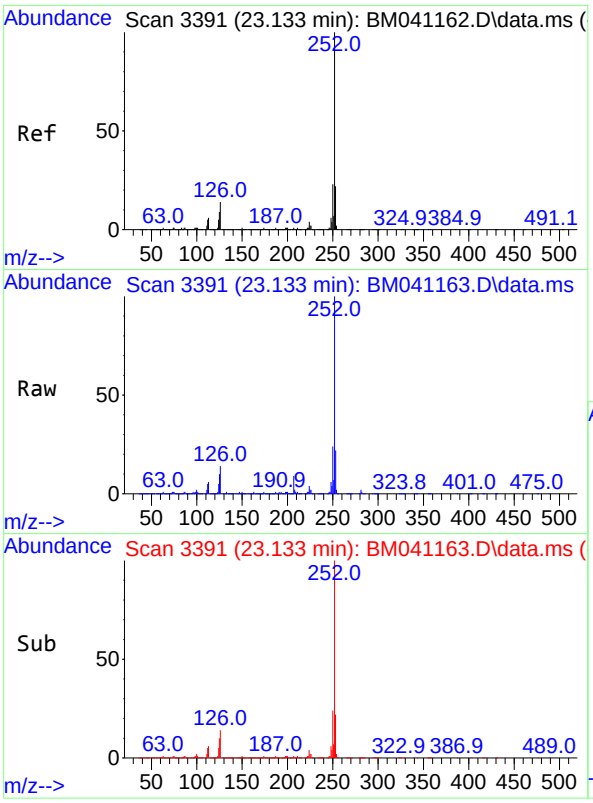


#88
Benzo(b)fluoranthene
Concen: 50.179 ng
RT: 23.085 min Scan# 3383
Delta R.T. 0.006 min
Lab File: BM041163.D
Acq: 28 Jul 2023 13:22

Tgt Ion:252 Resp: 2515992

Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.7	26.5
125	9.9	8.2	12.4

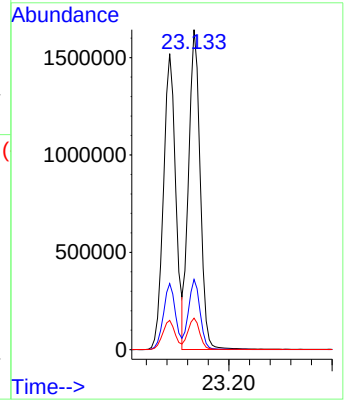




#89
Benzo(k)fluoranthene
Concen: 49.841 ng
RT: 23.133 min Scan# 3
Delta R.T. -0.000 min
Lab File: BM041163.D
Acq: 28 Jul 2023 13:22

Tgt Ion:252 Resp: 255629

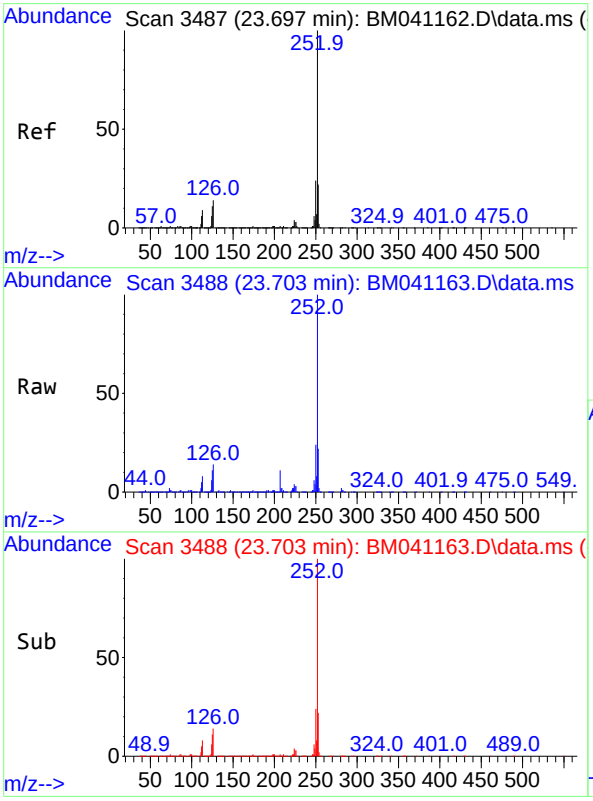
Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.4	26.0
125	9.9	7.6	11.4



Instrument :
BNA_M
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

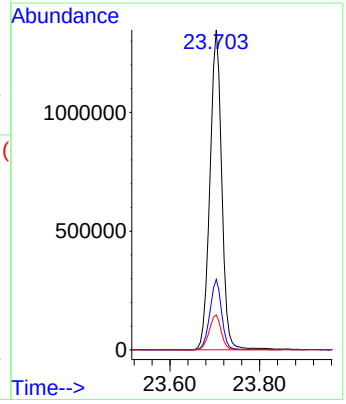
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

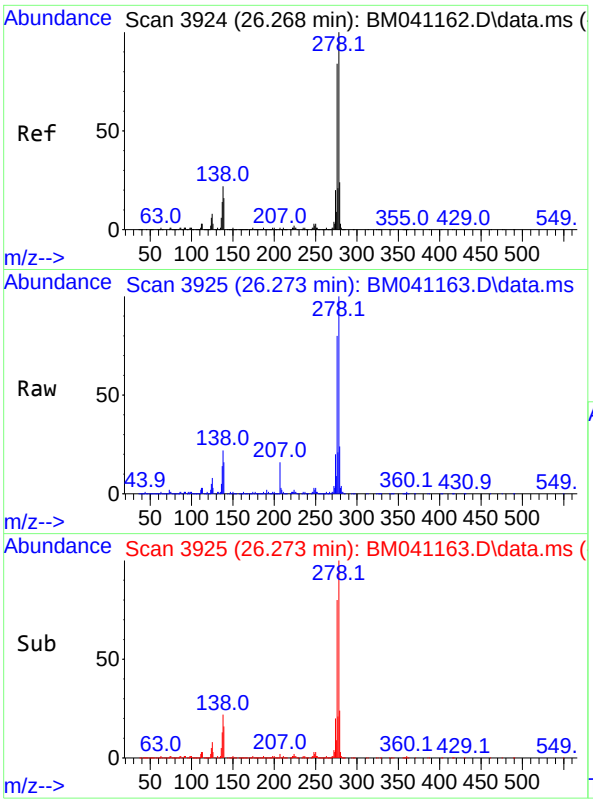


#90
Benzo(a)pyrene
Concen: 50.968 ng
RT: 23.703 min Scan# 3488
Delta R.T. 0.006 min
Lab File: BM041163.D
Acq: 28 Jul 2023 13:22

Tgt Ion:252 Resp: 2455545

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.3	25.9
125	11.0	9.0	13.4

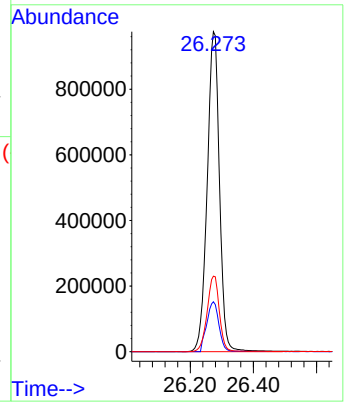




#91
Dibenzo(a,h)anthracene
Concen: 50.771 ng
RT: 26.273 min Scan# 3
Delta R.T. 0.006 min
Lab File: BM041163.D
Acq: 28 Jul 2023 13:22

Tgt Ion:278 Resp: 262782

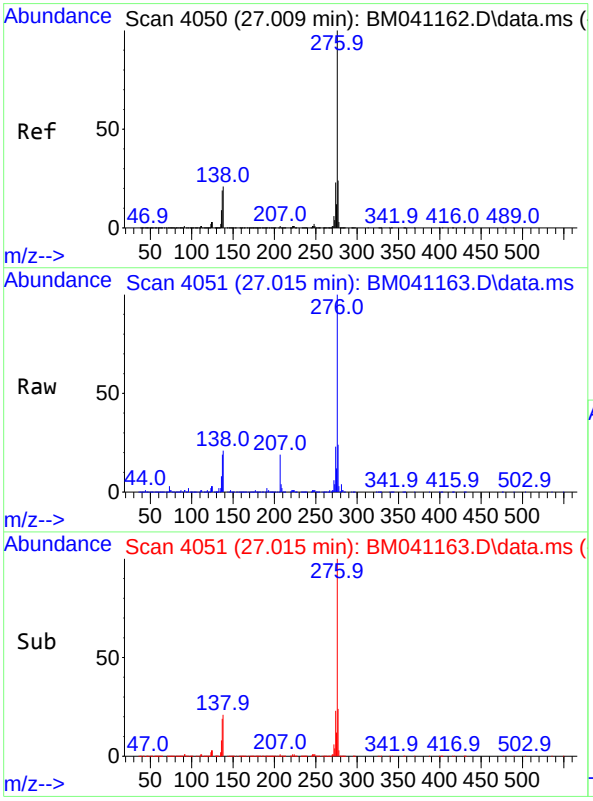
Ion	Ratio	Lower	Upper
278	100		
139	15.6	12.7	19.1
279	23.6	19.1	28.7



Instrument :
BNA_M
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

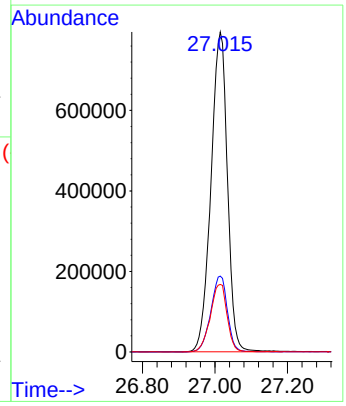
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023



#92
Benzo(g,h,i)perylene
Concen: 49.470 ng
RT: 27.015 min Scan# 4051
Delta R.T. 0.006 min
Lab File: BM041163.D
Acq: 28 Jul 2023 13:22

Tgt Ion:276 Resp: 2505399

Ion	Ratio	Lower	Upper
276	100		
277	23.7	19.1	28.7
138	21.1	17.1	25.7



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM072823\
Data File : BM041164.D
Acq On : 28 Jul 2023 14:00
Operator : MA/JU
Sample : SSTDICC060
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

Quant Time: Jul 29 00:11:52 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 28 23:54:24 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.804	152	187814	20.000	ng		0.00
21) Naphthalene-d8	10.616	136	673077	20.000	ng		0.00
39) Acenaphthene-d10	14.468	164	378426	20.000	ng		0.00
64) Phenanthrene-d10	17.227	188	785556	20.000	ng		0.00
76) Chrysene-d12	21.433	240	761496	20.000	ng		0.00
86) Perylene-d12	23.803	264	833196	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.375	112	1518639	120.850	ng		0.00
7) Phenol-d6	6.987	99	1972769	121.111	ng		0.00
23) Nitrobenzene-d5	8.986	82	1807326	124.873	ng		0.00
42) 2,4,6-Tribromophenol	15.974	330	710741	132.783	ng		0.00
45) 2-Fluorobiphenyl	13.092	172	3664099	122.314	ng		0.00
79) Terphenyl-d14	19.868	244	5423241	128.766	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.269	88	316628	58.900	ng		99
3) Pyridine	3.675	79	866321m	61.483	ng		
4) n-Nitrosodimethylamine	3.593	42	391700	59.918	ng		91
6) Aniline	7.145	93	1144115	60.018	ng		100
8) 2-Chlorophenol	7.369	128	727713	59.319	ng		98
9) Benzaldehyde	6.957	77	453933m	52.757	ng		
10) Phenol	7.010	94	950972	60.447	ng		99
11) bis(2-Chloroethyl)ether	7.245	93	763852	59.981	ng		97
12) 1,3-Dichlorobenzene	7.692	146	789635	59.132	ng		99
13) 1,4-Dichlorobenzene	7.839	146	793823	59.143	ng		100
14) 1,2-Dichlorobenzene	8.157	146	755957	58.741	ng		99
15) Benzyl Alcohol	8.063	79	647892	62.984	ng		99
16) 2,2'-oxybis(1-Chloropr...	8.345	45	997509	58.789	ng		99
17) 2-Methylphenol	8.263	107	650882	60.557	ng		100
18) Hexachloroethane	8.875	117	300258	60.088	ng		97
19) n-Nitroso-di-n-propyla...	8.628	70	617439	62.407	ng		99
20) 3+4-Methylphenols	8.598	107	885041	61.585	ng		96
22) Acetophenone	8.645	105	1105421	62.012	ng	#	99
24) Nitrobenzene	9.028	77	903582	61.734	ng		99
25) Isophorone	9.551	82	1590023	64.717	ng		99
26) 2-Nitrophenol	9.733	139	380220	66.451	ng		98
27) 2,4-Dimethylphenol	9.798	122	622420	61.819	ng		99
28) bis(2-Chloroethoxy)met...	10.039	93	956569	62.156	ng		100
29) 2,4-Dichlorophenol	10.269	162	651087	64.124	ng		99
30) 1,2,4-Trichlorobenzene	10.475	180	691887	61.676	ng		100
31) Naphthalene	10.663	128	2221255	60.815	ng		99
32) Benzoic acid	9.975	122	490889	62.394	ng		99
33) 4-Chloroaniline	10.792	127	939339	64.353	ng		99
34) Hexachlorobutadiene	10.933	225	414181	61.388	ng		99
35) Caprolactam	11.610	113	202245	68.856	ng		99
36) 4-Chloro-3-methylphenol	11.922	107	694542	64.990	ng		98
37) 2-Methylnaphthalene	12.280	142	1542955	62.660	ng		100
38) 1-Methylnaphthalene	12.504	142	1439375	62.454	ng		100
40) 1,2,4,5-Tetrachloroben...	12.651	216	748862	60.943	ng		99
41) Hexachlorocyclopentadiene	12.621	237	411101	63.238	ng		99
43) 2,4,6-Trichlorophenol	12.898	196	504296	64.031	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM072823\
Data File : BM041164.D
Acq On : 28 Jul 2023 14:00
Operator : MA/JU
Sample : SSTDICC060
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 29 00:11:52 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 28 23:54:24 2023
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.974	196	583057	63.962	ng	99
46) 1,1'-Biphenyl	13.304	154	1871618	61.007	ng	99
47) 2-Chloronaphthalene	13.345	162	1391104	60.729	ng	99
48) 2-Nitroaniline	13.568	65	497827	68.085	ng	98
49) Acenaphthylene	14.192	152	2313105	62.561	ng	100
50) Dimethylphthalate	13.945	163	1803136	63.344	ng	99
51) 2,6-Dinitrotoluene	14.068	165	387839	65.756	ng	98
52) Acenaphthene	14.539	154	1374233	61.698	ng	99
53) 3-Nitroaniline	14.398	138	428364	61.970	ng	100
54) 2,4-Dinitrophenol	14.610	184	241923	62.144	ng	95
55) Dibenzofuran	14.874	168	2240509	61.653	ng	99
56) 4-Nitrophenol	14.710	139	337118	68.581	ng	98
57) 2,4-Dinitrotoluene	14.863	165	534151	62.559	ng	96
58) Fluorene	15.527	166	1805170	62.966	ng	100
59) 2,3,4,6-Tetrachlorophenol	15.104	232	474433	64.272	ng	100
60) Diethylphthalate	15.304	149	1791132	65.066	ng	100
61) 4-Chlorophenyl-phenyle...	15.521	204	928415	64.625	ng	98
62) 4-Nitroaniline	15.568	138	400476	62.308	ng	99
63) Azobenzene	15.815	77	1955178	64.840	ng	99
65) 4,6-Dinitro-2-methylph...	15.621	198	321176	67.490	ng	97
66) n-Nitrosodiphenylamine	15.745	169	1514857	62.004	ng	100
67) 4-Bromophenyl-phenylether	16.415	248	544187	63.182	ng	96
68) Hexachlorobenzene	16.527	284	597328	62.369	ng	98
69) Atrazine	16.704	200	384152	59.874	ng	99
70) Pentachlorophenol	16.880	266	448058	67.561	ng	98
71) Phenanthrene	17.274	178	2699325	61.846	ng	100
72) Anthracene	17.362	178	2753374	63.785	ng	100
73) Carbazole	17.645	167	2499301	63.970	ng	100
74) Di-n-butylphthalate	18.203	149	3057189	69.246	ng	99
75) Fluoranthene	19.298	202	3176350	64.777	ng	100
77) Benzidine	19.498	184	652164	62.547	ng	99
78) Pyrene	19.662	202	3331239	62.556	ng	99
80) Butylbenzylphthalate	20.568	149	1354634	69.658	ng	100
81) Benzo(a)anthracene	21.415	228	3245110	62.861	ng	99
82) 3,3'-Dichlorobenzidine	21.356	252	1115253	66.206	ng	100
83) Chrysene	21.474	228	3119175	62.468	ng	100
84) Bis(2-ethylhexyl)phtha...	21.344	149	1993079	63.662	ng	97
85) Di-n-octyl phthalate	22.262	149	3370194	68.571	ng	99
87) Indeno(1,2,3-cd)pyrene	26.268	276	3896206	63.604	ng	99
88) Benzo(b)fluoranthene	23.086	252	3169876	64.042	ng	99
89) Benzo(k)fluoranthene	23.133	252	3180548	62.818	ng	99
90) Benzo(a)pyrene	23.703	252	3036973	63.856	ng	99
91) Dibenzo(a,h)anthracene	26.274	278	3278538	64.167	ng	99
92) Benzo(g,h,i)perylene	27.015	276	3116058	62.328	ng	100

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

ICAL Form

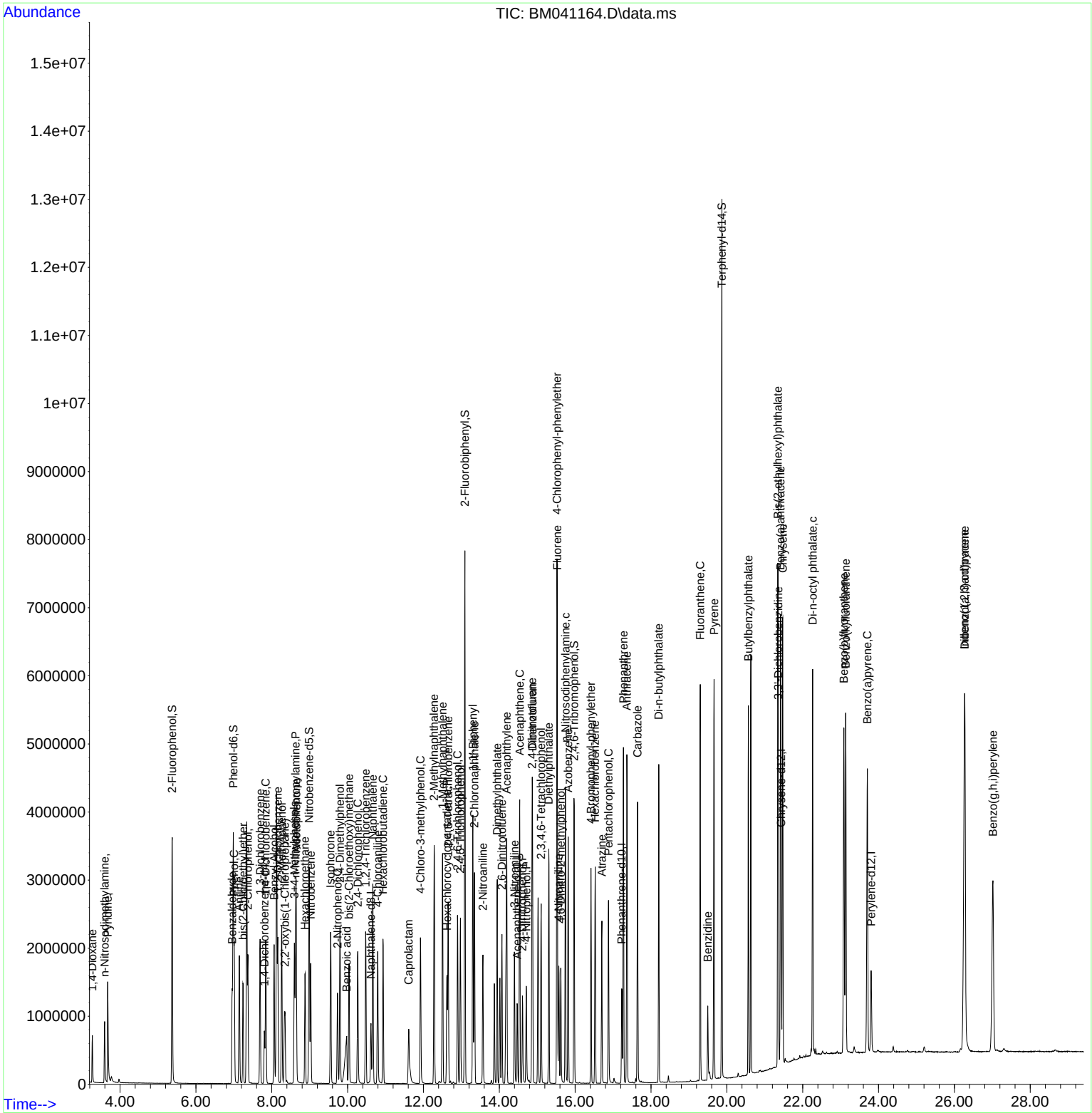
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM072823\
Data File : BM041164.D
Acq On : 28 Jul 2023 14:00
Operator : MA/JU
Sample : SSTDICC060
Misc :
ALS Vial : 8 Sample Multiplier: 1

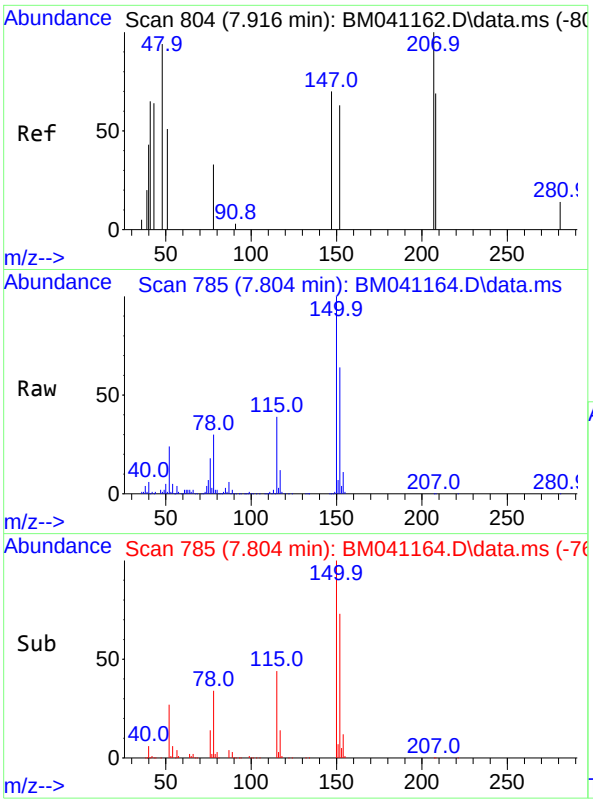
Quant Time: Jul 29 00:11:52 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 28 23:54:24 2023
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

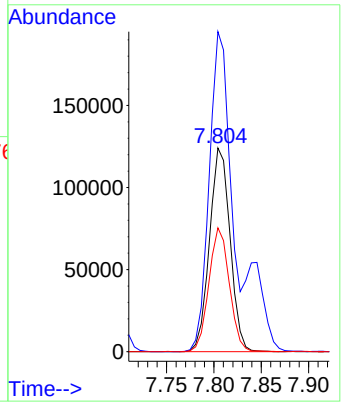




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.804 min Scan# 7
Delta R.T. 0.000 min
Lab File: BM041164.D
Acq: 28 Jul 2023 14:00

Tgt Ion:152 Resp: 18781

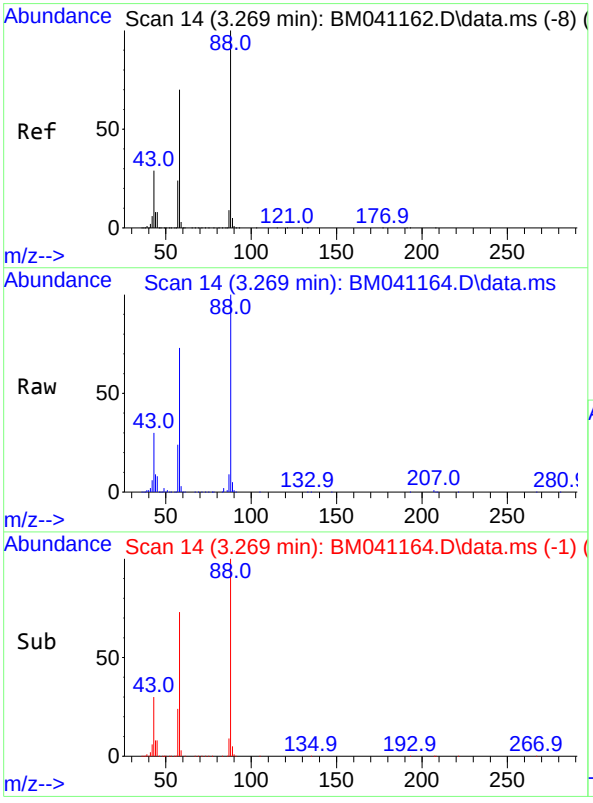
Ion	Ratio	Lower	Upper
152	100		
150	157.1	125.5	188.3
115	60.8	48.0	72.0



Instrument :
BNA_M
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

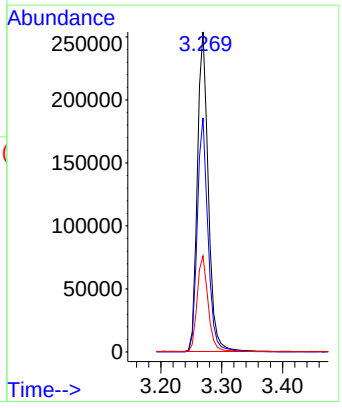
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

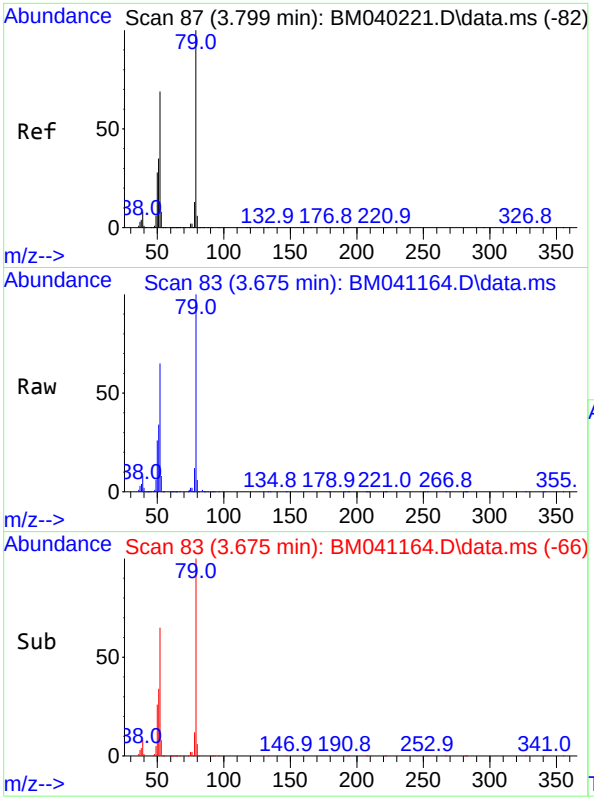


#2
1,4-Dioxane
Concen: 58.900 ng
RT: 3.269 min Scan# 14
Delta R.T. -0.000 min
Lab File: BM041164.D
Acq: 28 Jul 2023 14:00

Tgt Ion: 88 Resp: 316628

Ion	Ratio	Lower	Upper
88	100		
58	72.1	58.2	87.4
43	29.8	24.4	36.6

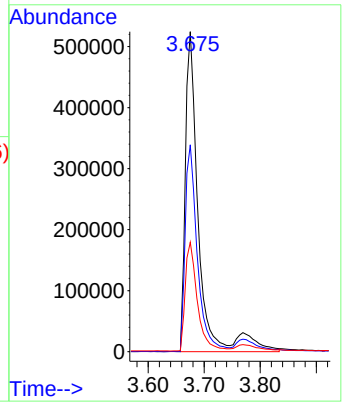




#3
Pyridine
Concen: 61.483 ng m
RT: 3.675 min Scan# 8
Delta R.T. -0.000 min
Lab File: BM041164.D
Acq: 28 Jul 2023 14:00

Tgt Ion: 79 Resp: 86632

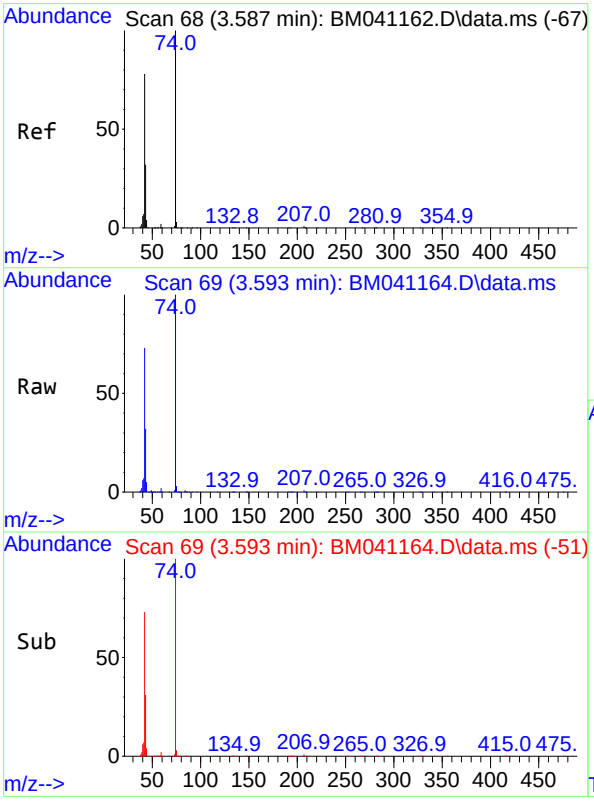
Ion	Ratio	Lower	Upper
79	100		
52	64.6	52.1	78.1
51	34.2	27.5	41.3



Instrument :
BNA_M
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

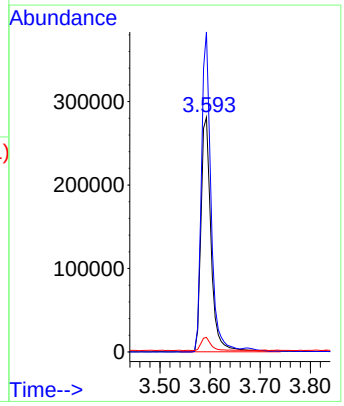
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

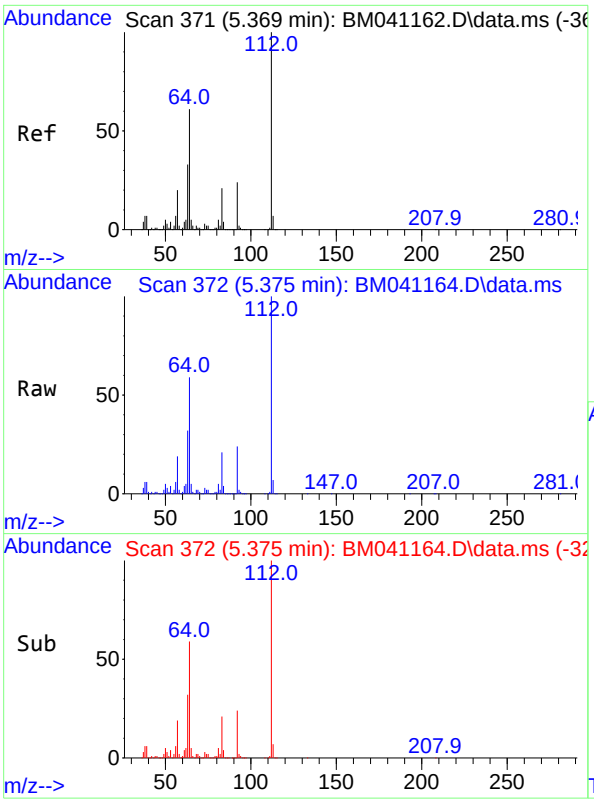


#4
n-Nitrosodimethylamine
Concen: 59.918 ng
RT: 3.593 min Scan# 69
Delta R.T. 0.006 min
Lab File: BM041164.D
Acq: 28 Jul 2023 14:00

Tgt Ion: 42 Resp: 391700

Ion	Ratio	Lower	Upper
42	100		
74	136.4	100.8	151.2
44	6.2	5.0	7.4

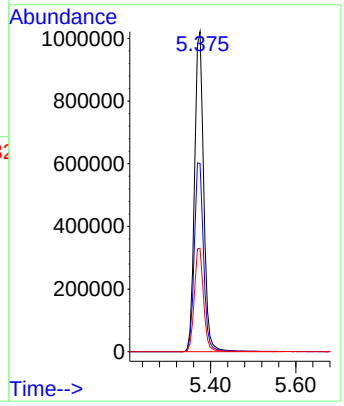




#5
2-Fluorophenol
Concen: 120.850 ng
RT: 5.375 min Scan# 3
Delta R.T. 0.006 min
Lab File: BM041164.D
Acq: 28 Jul 2023 14:00

Tgt Ion:112 Resp: 151863

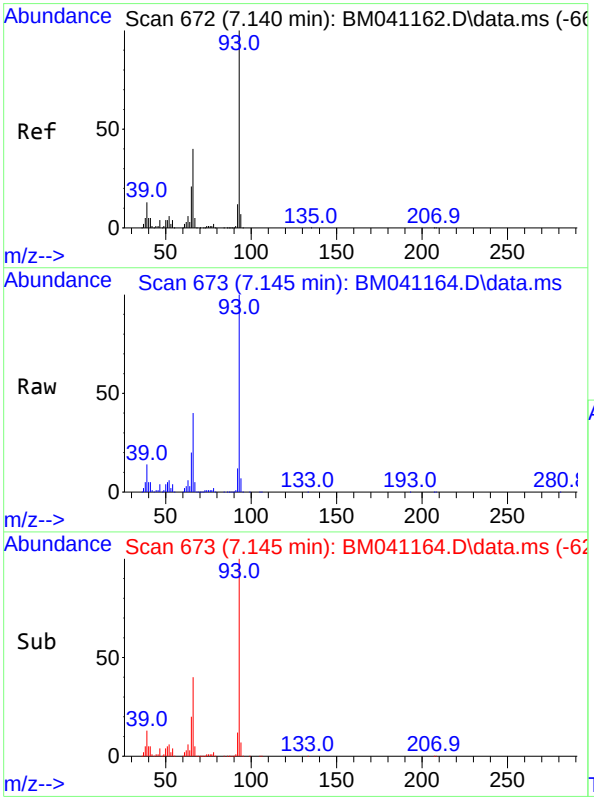
Ion	Ratio	Lower	Upper
112	100		
64	58.9	48.5	72.7
63	32.3	26.5	39.7



Instrument :
BNA_M
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

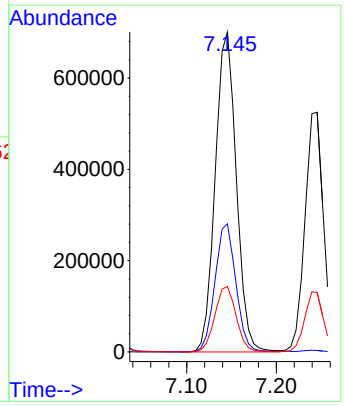
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

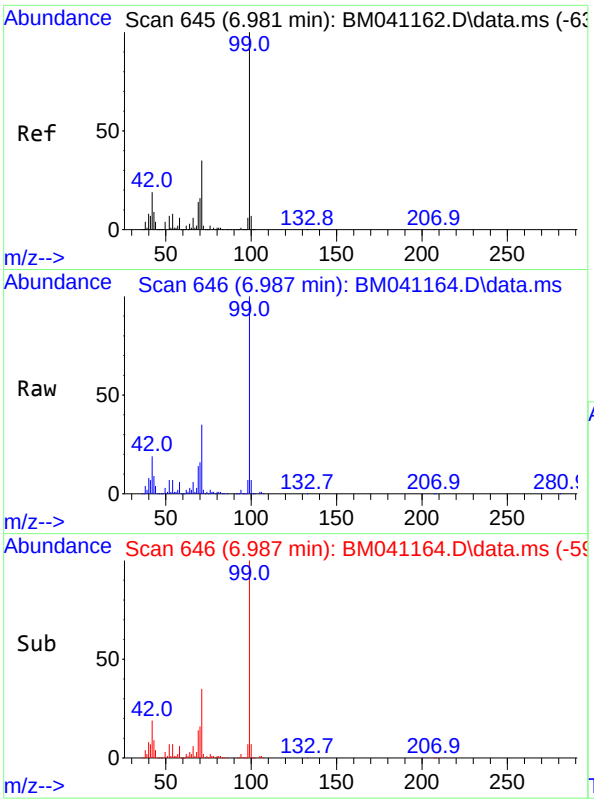


#6
Aniline
Concen: 60.018 ng
RT: 7.145 min Scan# 673
Delta R.T. 0.006 min
Lab File: BM041164.D
Acq: 28 Jul 2023 14:00

Tgt Ion: 93 Resp: 1144115

Ion	Ratio	Lower	Upper
93	100		
66	40.0	32.0	48.0
65	20.5	16.6	24.8

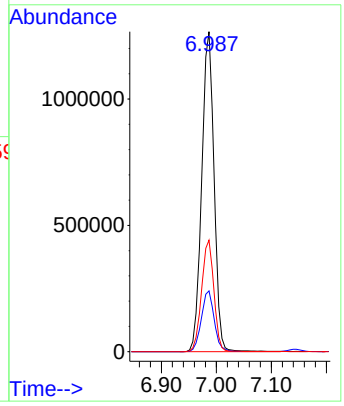




#7
Phenol-d6
Concen: 121.111 ng
RT: 6.987 min Scan# 64
Delta R.T. 0.006 min
Lab File: BM041164.D
Acq: 28 Jul 2023 14:00

Tgt Ion: 99 Resp: 197276

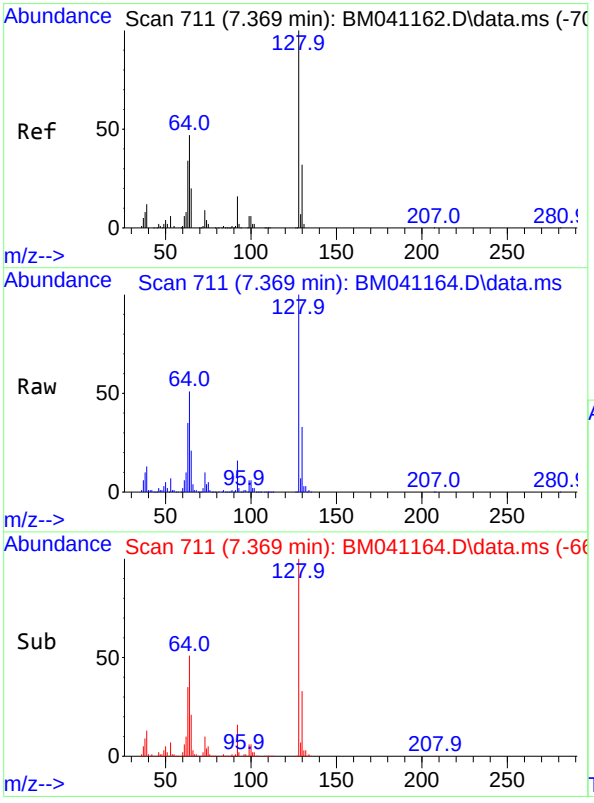
Ion	Ratio	Lower	Upper
99	100		
42	19.0	15.4	23.0
71	34.9	28.2	42.4



Instrument :
BNA_M
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

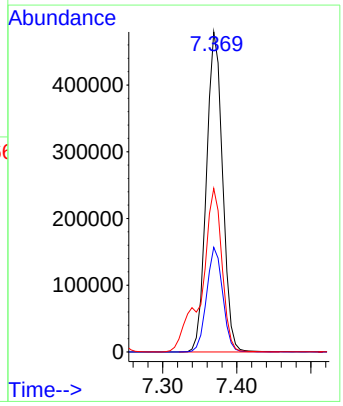
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

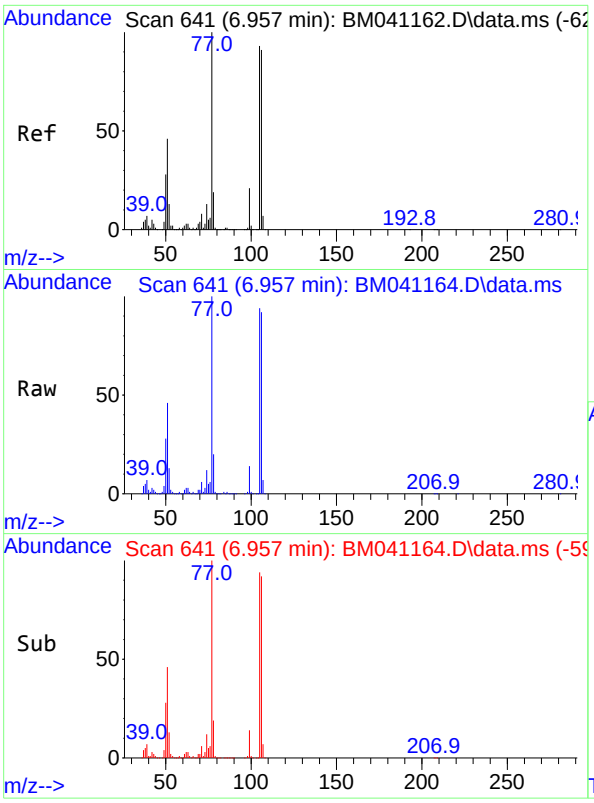


#8
2-Chlorophenol
Concen: 59.319 ng
RT: 7.369 min Scan# 711
Delta R.T. -0.000 min
Lab File: BM041164.D
Acq: 28 Jul 2023 14:00

Tgt Ion:128 Resp: 727713

Ion	Ratio	Lower	Upper
128	100		
130	32.7	12.3	52.3
64	51.1	29.3	69.3

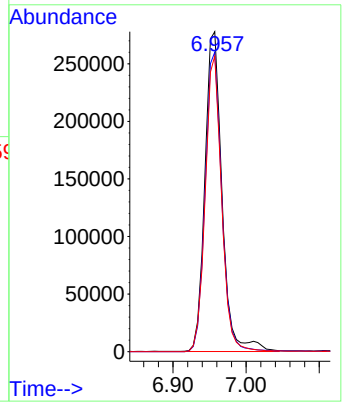




#9
Benzaldehyde
Concen: 52.757 ng m
RT: 6.957 min Scan# 64
Delta R.T. 0.000 min
Lab File: BM041164.D
Acq: 28 Jul 2023 14:00

Tgt Ion: 77 Resp: 45393

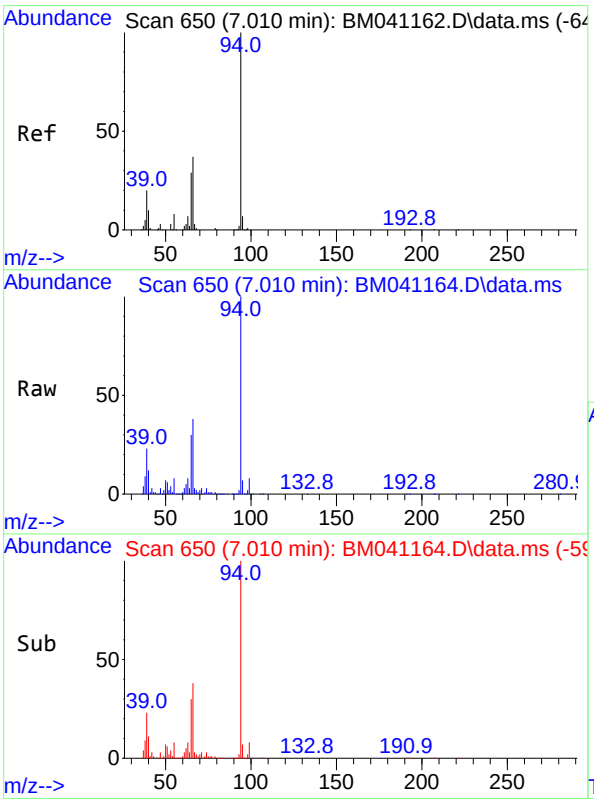
Ion	Ratio	Lower	Upper
77	100		
105	93.6	72.8	112.8
106	92.4	70.8	110.8



Instrument :
BNA_M
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

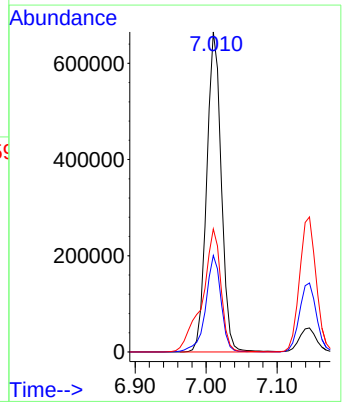
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

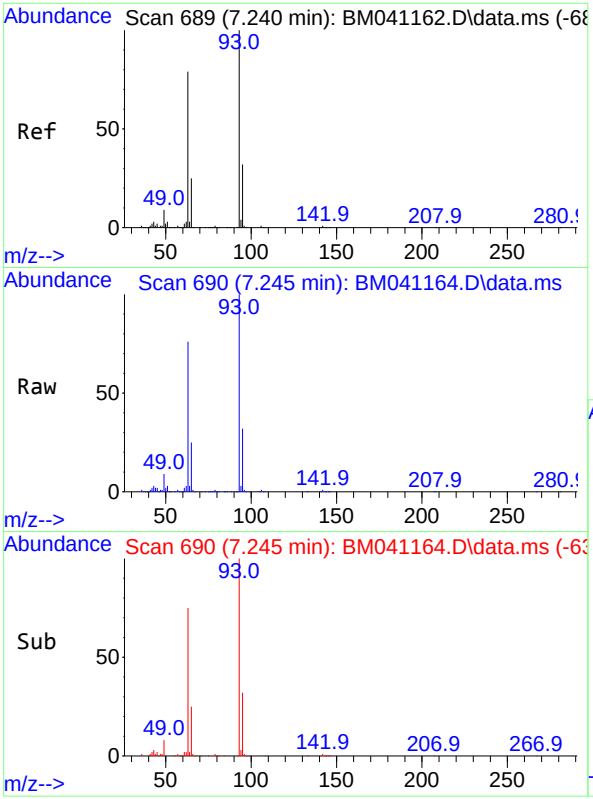


#10
Phenol
Concen: 60.447 ng
RT: 7.010 min Scan# 650
Delta R.T. -0.000 min
Lab File: BM041164.D
Acq: 28 Jul 2023 14:00

Tgt Ion: 94 Resp: 950972

Ion	Ratio	Lower	Upper
94	100		
65	30.2	9.5	49.5
66	38.4	18.0	58.0

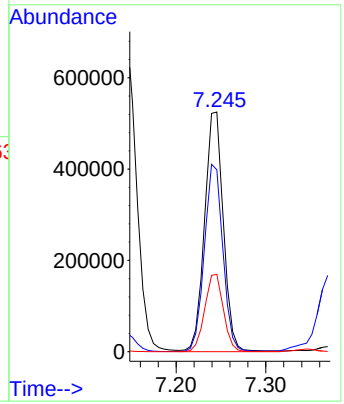




#11
bis(2-Chloroethyl)ether
Concen: 59.981 ng
RT: 7.245 min Scan# 6
Delta R.T. 0.006 min
Lab File: BM041164.D
Acq: 28 Jul 2023 14:00

Tgt Ion: 93 Resp: 76385

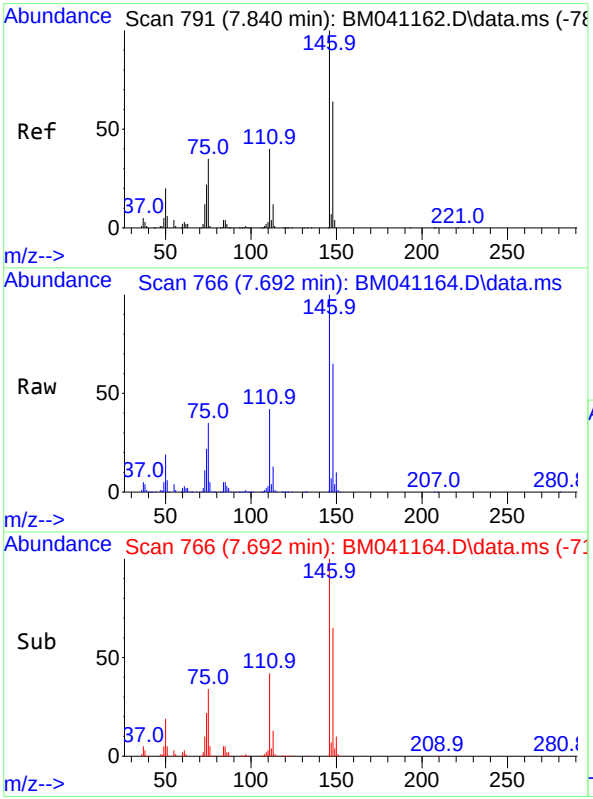
Ion	Ratio	Lower	Upper
93	100		
63	75.9	58.8	98.8
95	32.3	11.8	51.8



Instrument :
BNA_M
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

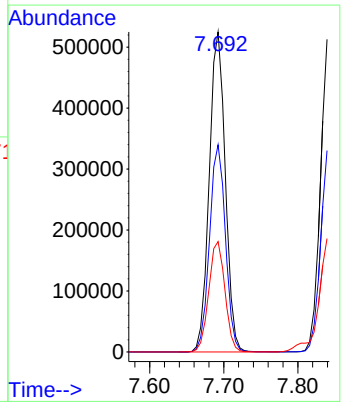
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

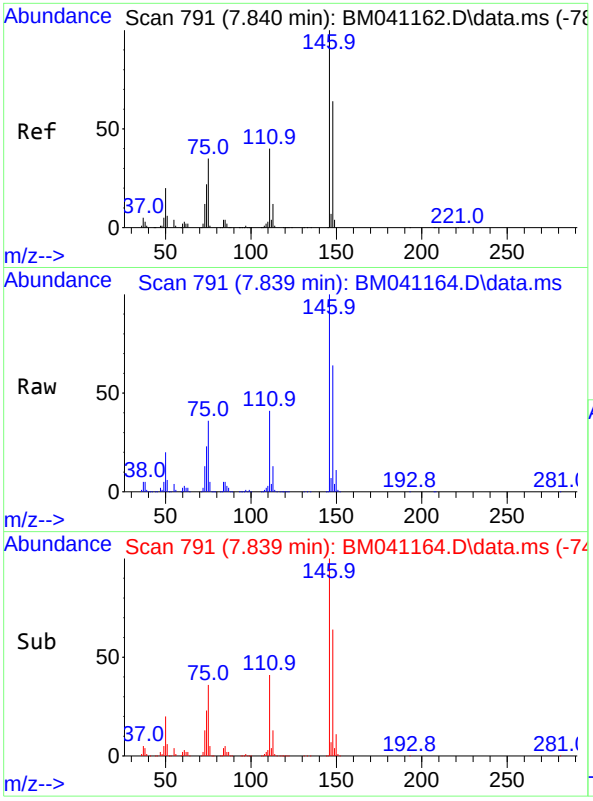


#12
1,3-Dichlorobenzene
Concen: 59.132 ng
RT: 7.692 min Scan# 766
Delta R.T. -0.000 min
Lab File: BM041164.D
Acq: 28 Jul 2023 14:00

Tgt Ion:146 Resp: 789635

Ion	Ratio	Lower	Upper
146	100		
148	64.7	51.9	77.9
75	34.5	28.3	42.5

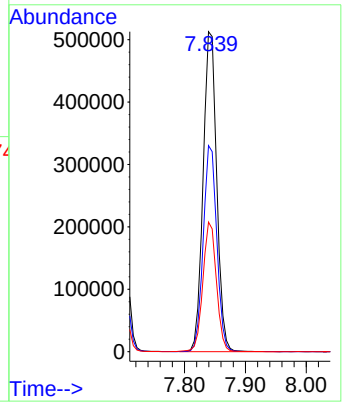




#13
1,4-Dichlorobenzene
Concen: 59.143 ng
RT: 7.839 min Scan# 7
Delta R.T. -0.000 min
Lab File: BM041164.D
Acq: 28 Jul 2023 14:00

Tgt Ion:146 Resp: 79382

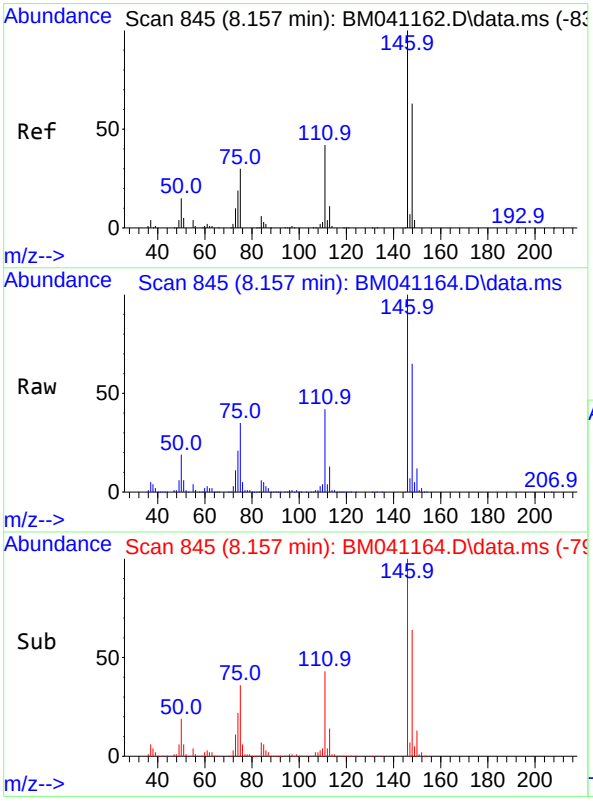
Ion	Ratio	Lower	Upper
146	100		
148	64.4	51.4	77.0
111	40.5	32.4	48.6



Instrument :
BNA_M
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

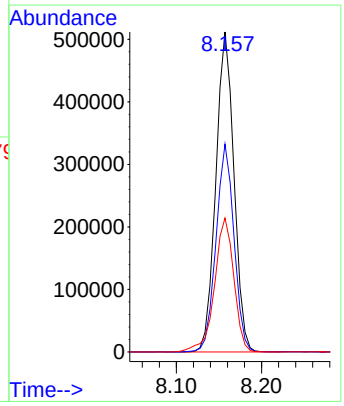
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

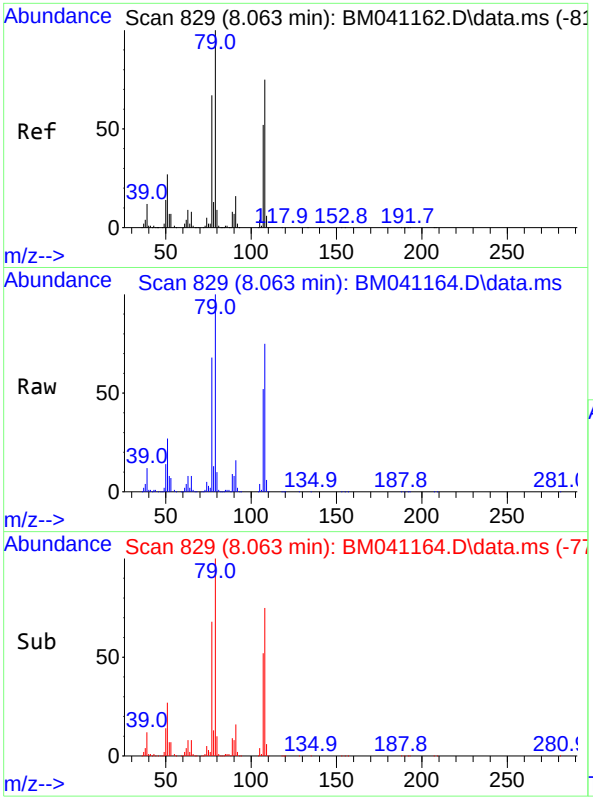


#14
1,2-Dichlorobenzene
Concen: 58.741 ng
RT: 8.157 min Scan# 845
Delta R.T. -0.000 min
Lab File: BM041164.D
Acq: 28 Jul 2023 14:00

Tgt Ion:146 Resp: 755957

Ion	Ratio	Lower	Upper
146	100		
148	65.0	50.9	76.3
111	41.9	33.8	50.6

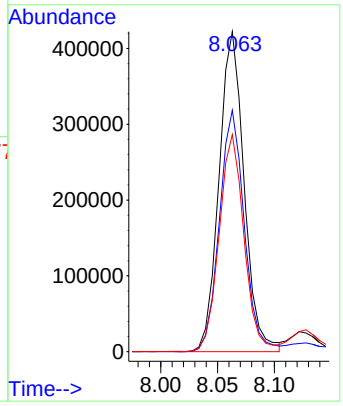




#15
Benzyl Alcohol
Concen: 62.984 ng
RT: 8.063 min Scan# 8
Delta R.T. -0.000 min
Lab File: BM041164.D
Acq: 28 Jul 2023 14:00

Tgt Ion: 79 Resp: 64789

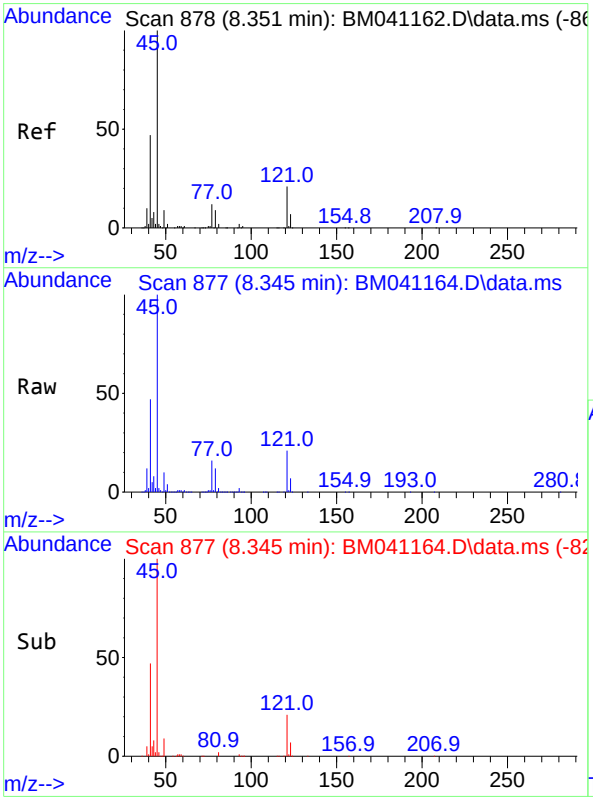
Ion	Ratio	Lower	Upper
79	100		
108	75.5	59.8	89.8
77	67.8	53.8	80.6



Instrument :
BNA_M
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

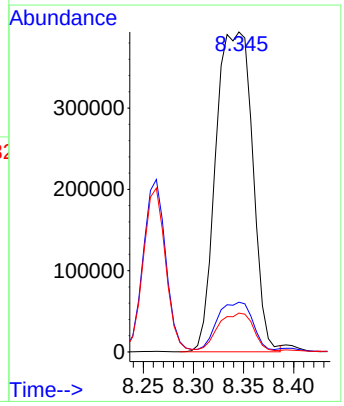
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

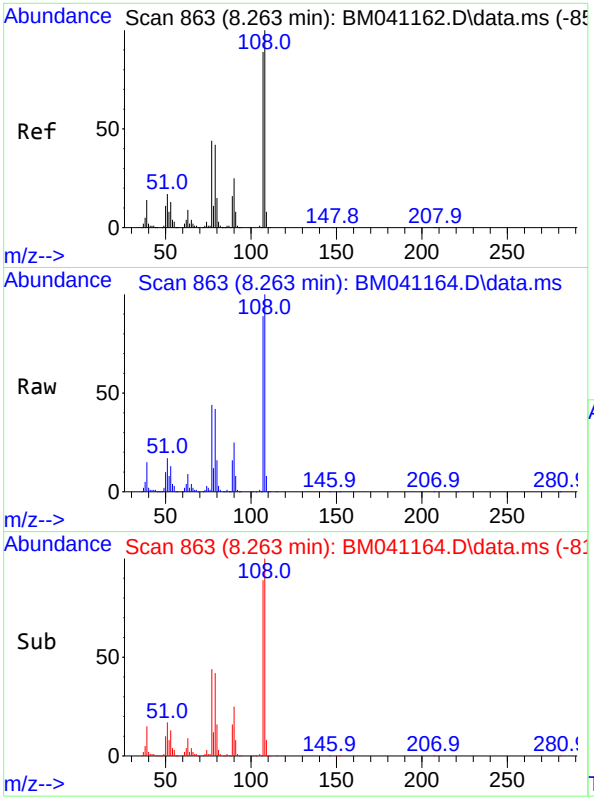


#16
2,2'-oxybis(1-Chloropropane)
Concen: 58.789 ng
RT: 8.345 min Scan# 877
Delta R.T. -0.006 min
Lab File: BM041164.D
Acq: 28 Jul 2023 14:00

Tgt Ion: 45 Resp: 997509

Ion	Ratio	Lower	Upper
45	100		
77	15.6	0.0	34.5
79	12.2	0.0	32.1

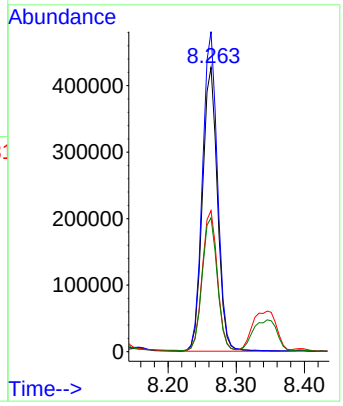




#17
2-Methylphenol
Concen: 60.557 ng
RT: 8.263 min Scan# 8
Delta R.T. -0.000 min
Lab File: BM041164.D
Acq: 28 Jul 2023 14:00

Tgt Ion:107 Resp: 65088

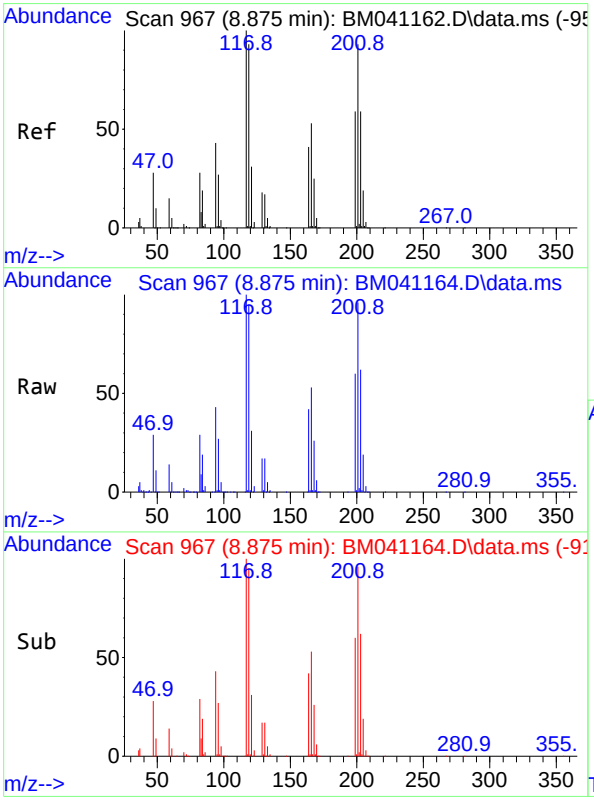
Ion	Ratio	Lower	Upper
107	100		
108	112.6	89.9	134.9
77	49.6	39.8	59.8
79	47.1	37.7	56.5



Instrument :
BNA_M
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

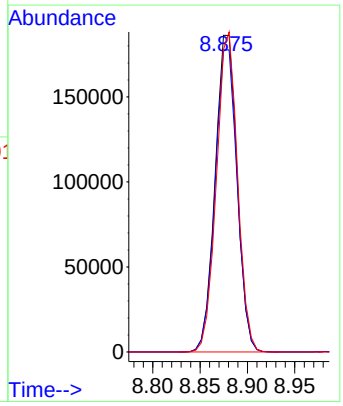
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

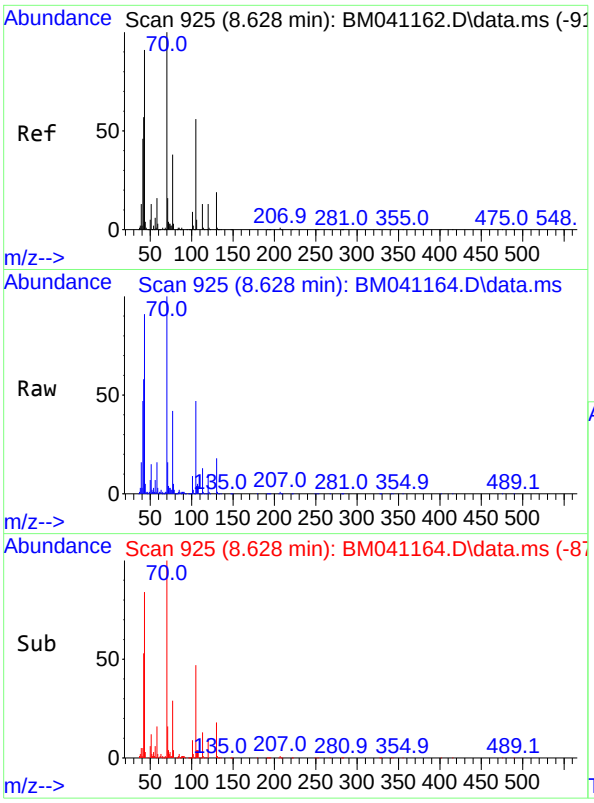


#18
Hexachloroethane
Concen: 60.088 ng
RT: 8.875 min Scan# 967
Delta R.T. -0.000 min
Lab File: BM041164.D
Acq: 28 Jul 2023 14:00

Tgt Ion:117 Resp: 300258

Ion	Ratio	Lower	Upper
117	100		
119	95.4	74.2	111.4
201	95.5	74.5	111.7

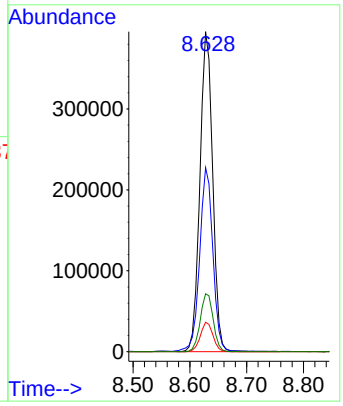




#19
n-Nitroso-di-n-propylamine
Concen: 62.407 ng
RT: 8.628 min Scan# 9
Delta R.T. -0.000 min
Lab File: BM041164.D
Acq: 28 Jul 2023 14:00

Tgt Ion: 70 Resp: 61743

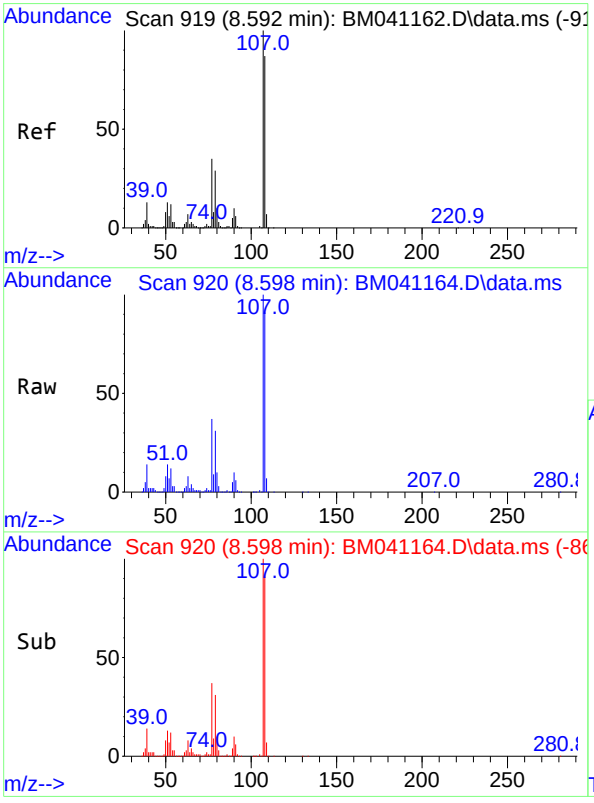
Ion	Ratio	Lower	Upper
70	100		
42	57.5	45.8	68.8
101	9.2	7.4	11.0
130	18.1	15.2	22.8



Instrument :
BNA_M
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

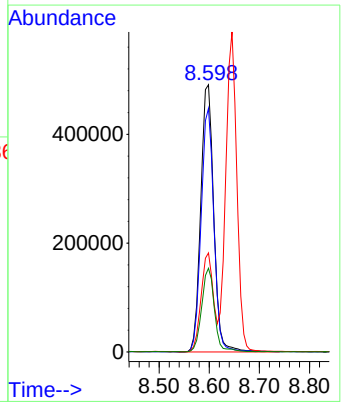
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

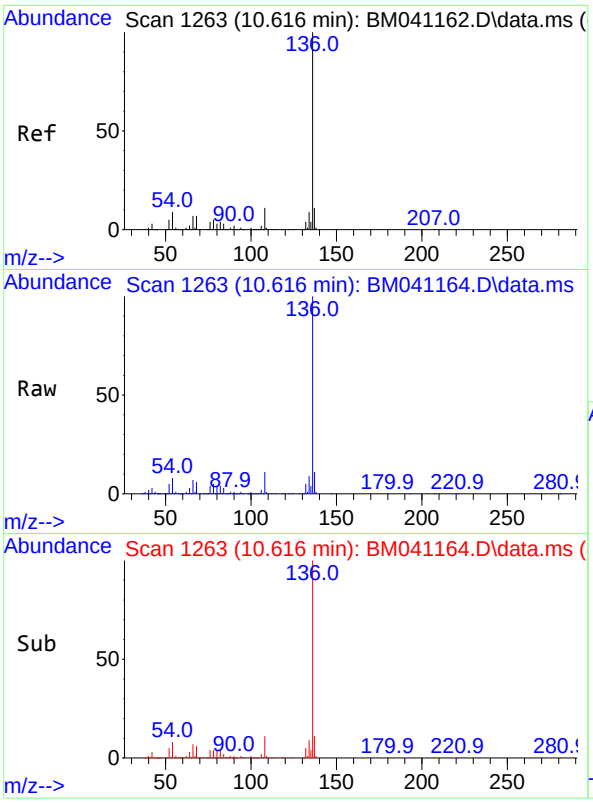


#20
3+4-Methylphenols
Concen: 61.585 ng
RT: 8.598 min Scan# 920
Delta R.T. 0.006 min
Lab File: BM041164.D
Acq: 28 Jul 2023 14:00

Tgt Ion:107 Resp: 885041

Ion	Ratio	Lower	Upper
107	100		
108	91.2	67.2	107.2
77	37.1	15.4	55.4
79	31.3	9.2	49.2

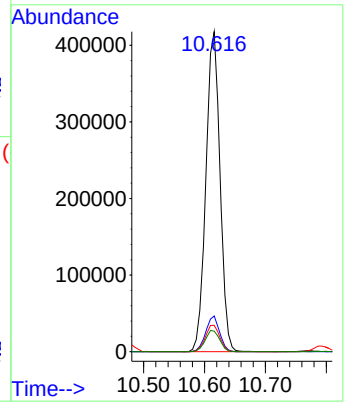




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.616 min Scan# 1
Delta R.T. -0.000 min
Lab File: BM041164.D
Acq: 28 Jul 2023 14:00

Tgt Ion:136 Resp: 67307

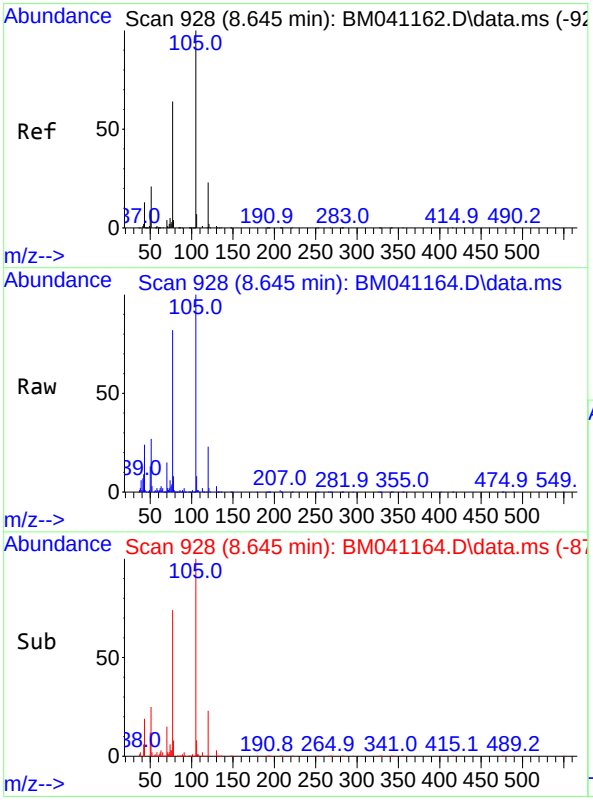
Ion	Ratio	Lower	Upper
136	100		
137	11.2	8.8	13.2
54	8.2	6.9	10.3
68	6.4	5.4	8.2



Instrument :
BNA_M
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

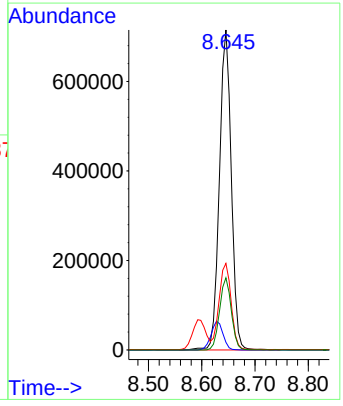
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

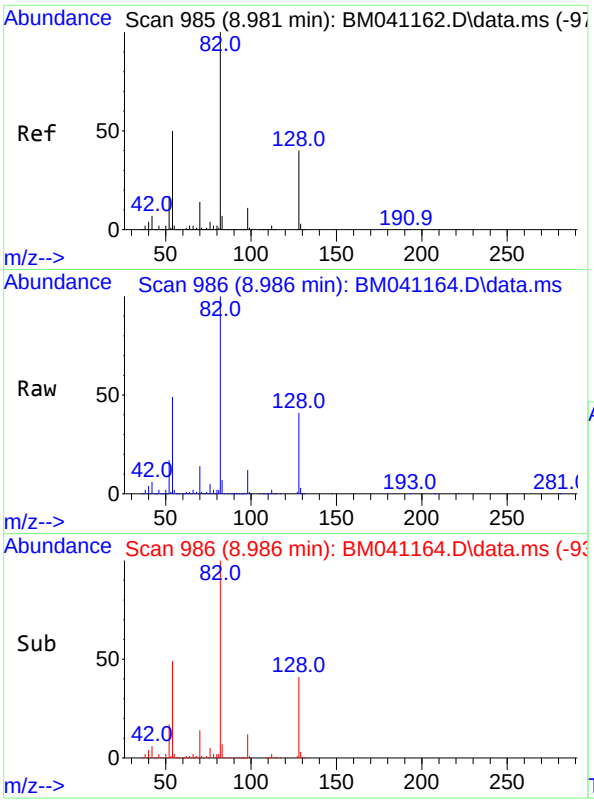


#22
Acetophenone
Concen: 62.012 ng
RT: 8.645 min Scan# 928
Delta R.T. -0.000 min
Lab File: BM041164.D
Acq: 28 Jul 2023 14:00

Tgt Ion:105 Resp: 1105421

Ion	Ratio	Lower	Upper
105	100		
71	2.4	1.2	1.8#
51	27.0	22.0	33.0
120	22.5	18.0	27.0

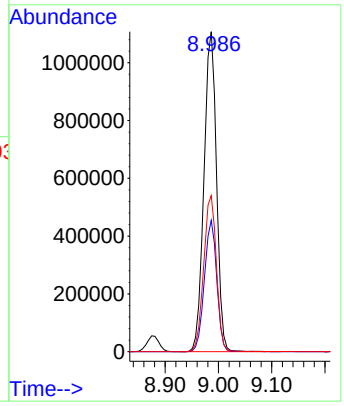




#23
Nitrobenzene-d5
Concen: 124.873 ng
RT: 8.986 min Scan# 9
Delta R.T. 0.006 min
Lab File: BM041164.D
Acq: 28 Jul 2023 14:00

Tgt Ion: 82 Resp: 180732

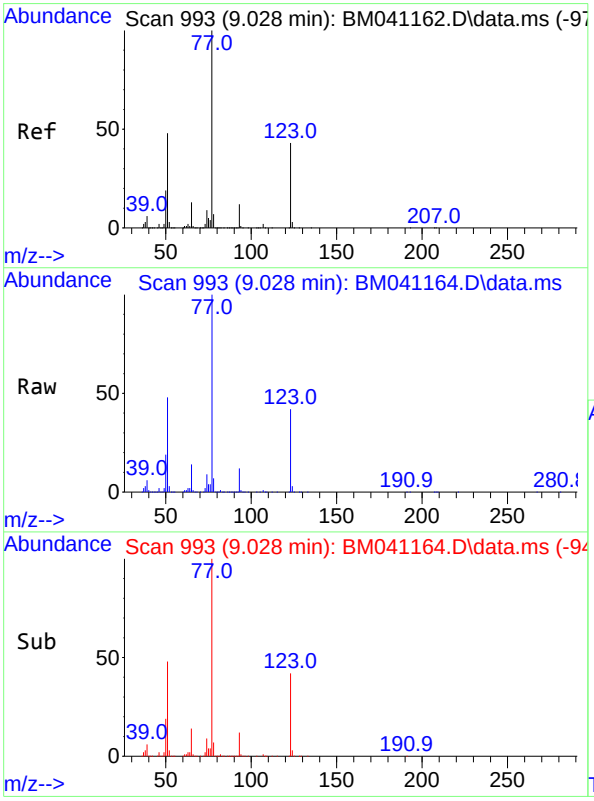
Ion	Ratio	Lower	Upper
82	100		
128	41.1	31.8	47.6
54	48.8	40.1	60.1



Instrument :
BNA_M
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

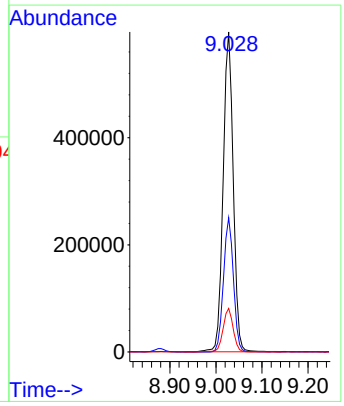
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

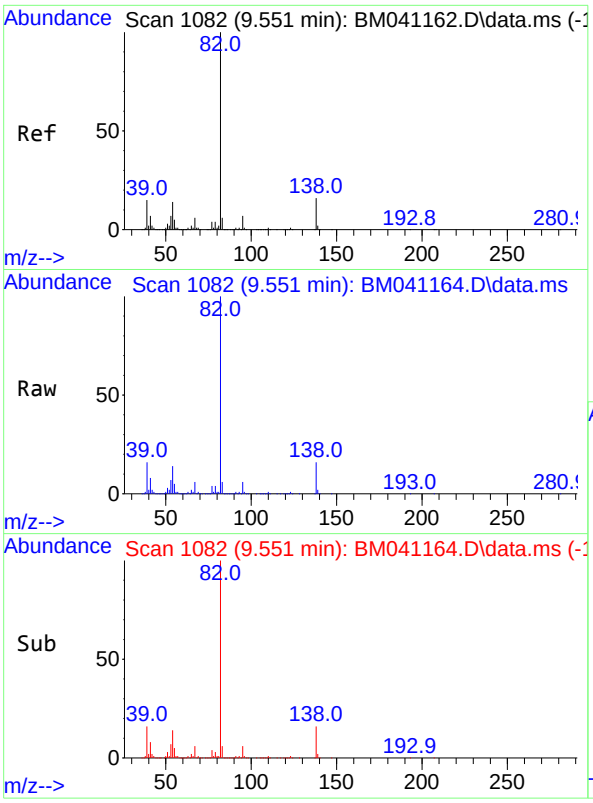


#24
Nitrobenzene
Concen: 61.734 ng
RT: 9.028 min Scan# 993
Delta R.T. -0.000 min
Lab File: BM041164.D
Acq: 28 Jul 2023 14:00

Tgt Ion: 77 Resp: 903582

Ion	Ratio	Lower	Upper
77	100		
123	41.9	34.2	51.2
65	13.6	10.7	16.1

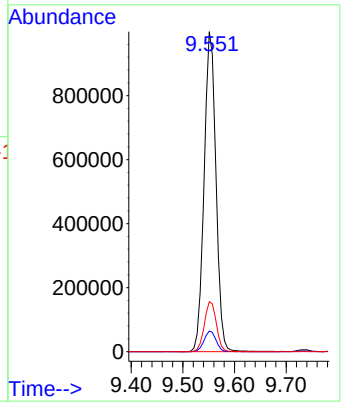




#25
Isophorone
Concen: 64.717 ng
RT: 9.551 min Scan# 1
Delta R.T. -0.000 min
Lab File: BM041164.D
Acq: 28 Jul 2023 14:00

Tgt Ion: 82 Resp: 159002

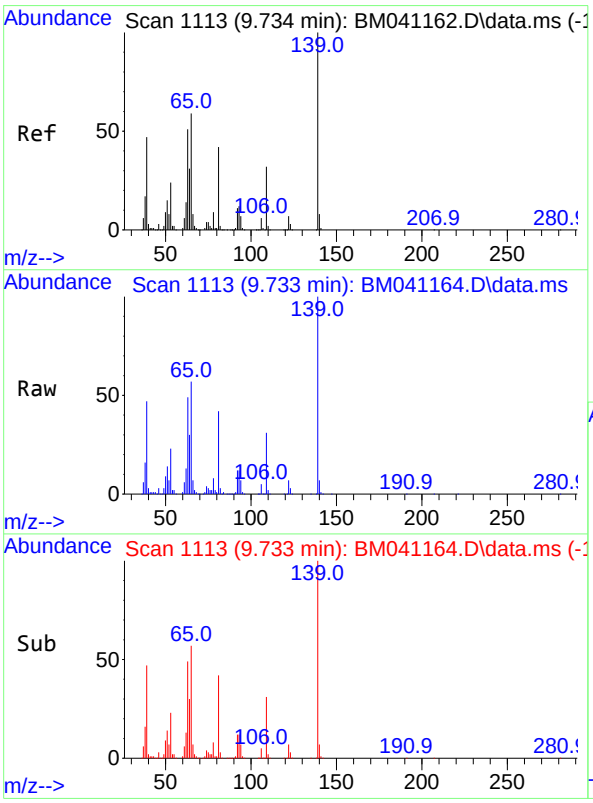
Ion	Ratio	Lower	Upper
82	100		
95	6.5	5.3	7.9
138	15.6	12.8	19.2



Instrument :
BNA_M
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

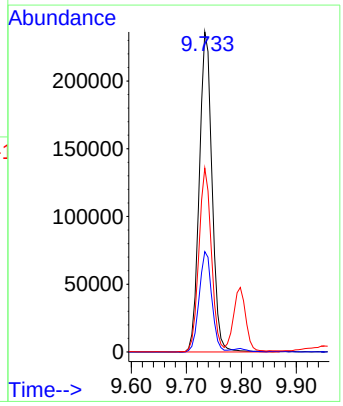
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

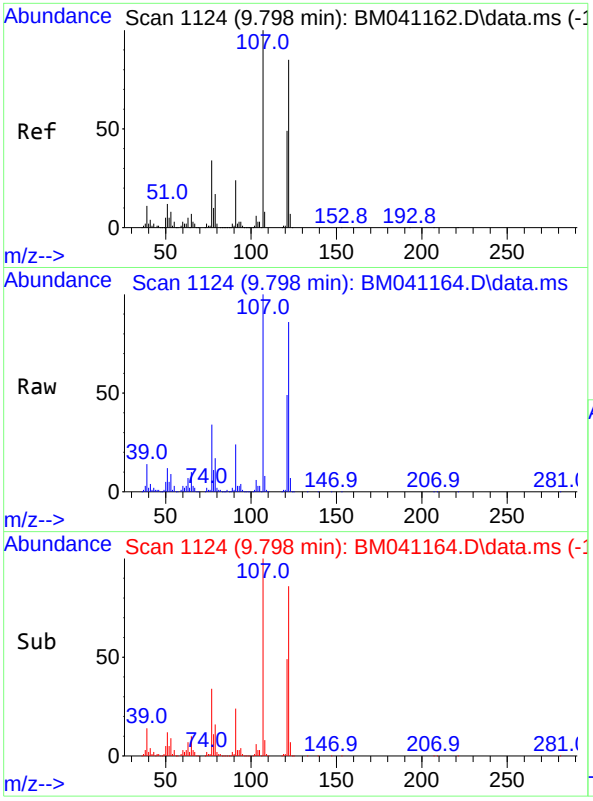


#26
2-Nitrophenol
Concen: 66.451 ng
RT: 9.733 min Scan# 1113
Delta R.T. -0.000 min
Lab File: BM041164.D
Acq: 28 Jul 2023 14:00

Tgt Ion:139 Resp: 380220

Ion	Ratio	Lower	Upper
139	100		
109	31.4	25.4	38.2
65	57.4	47.2	70.8

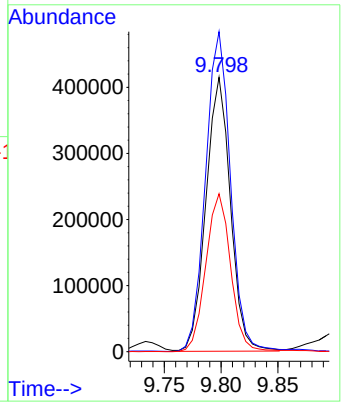




#27
2,4-Dimethylphenol
Concen: 61.819 ng
RT: 9.798 min Scan# 11
Delta R.T. -0.000 min
Lab File: BM041164.D
Acq: 28 Jul 2023 14:00

Tgt Ion:122 Resp: 62242

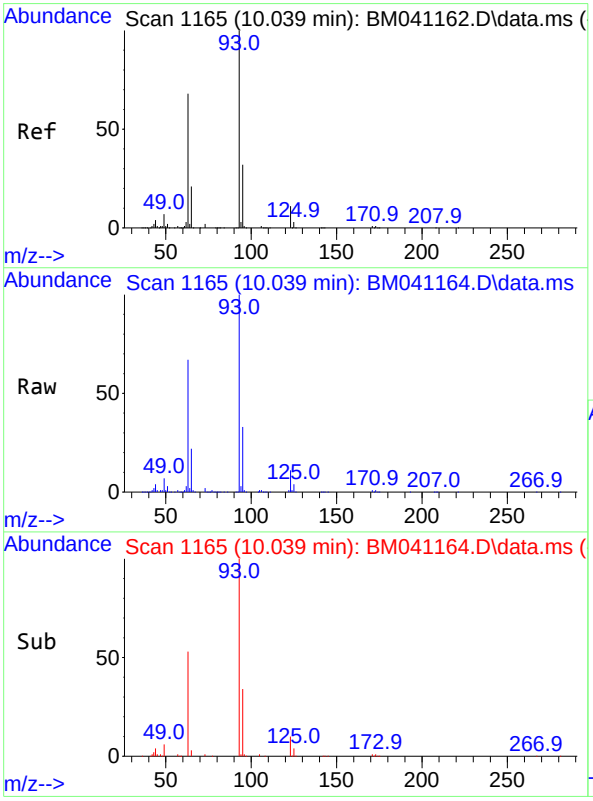
Ion	Ratio	Lower	Upper
122	100		
107	116.6	94.3	141.5
121	57.6	45.8	68.8



Instrument :
BNA_M
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

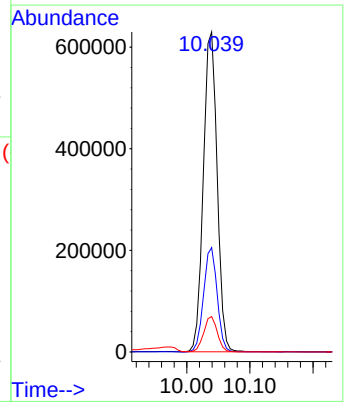
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

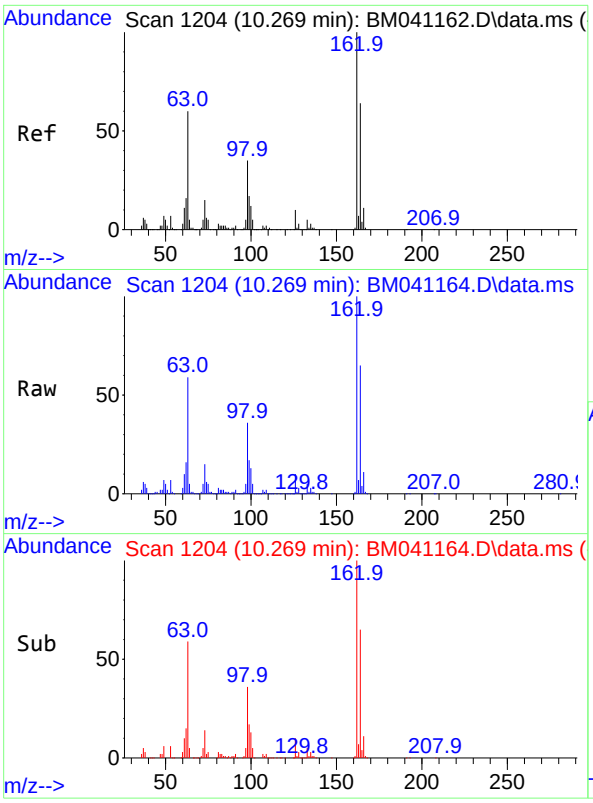


#28
bis(2-Chloroethoxy)methane
Concen: 62.156 ng
RT: 10.039 min Scan# 1165
Delta R.T. -0.000 min
Lab File: BM041164.D
Acq: 28 Jul 2023 14:00

Tgt Ion: 93 Resp: 956569

Ion	Ratio	Lower	Upper
93	100		
95	32.6	25.9	38.9
123	11.1	9.1	13.7

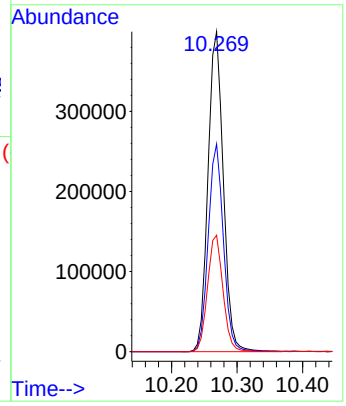




#29
2,4-Dichlorophenol
Concen: 64.124 ng
RT: 10.269 min Scan# 1
Delta R.T. -0.000 min
Lab File: BM041164.D
Acq: 28 Jul 2023 14:00

Tgt Ion:162 Resp: 65108

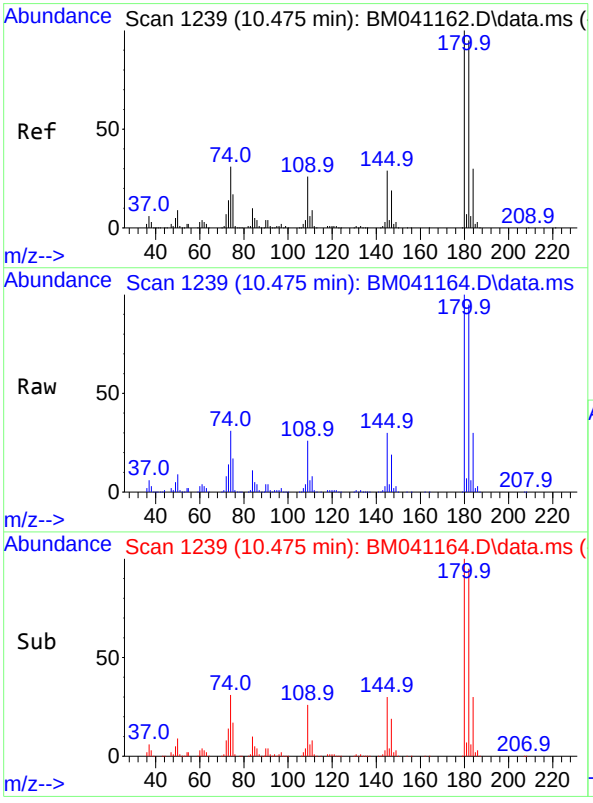
Ion	Ratio	Lower	Upper
162	100		
164	64.9	44.3	84.3
98	36.4	15.1	55.1



Instrument :
BNA_M
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

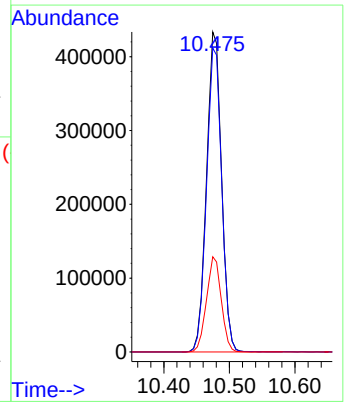
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

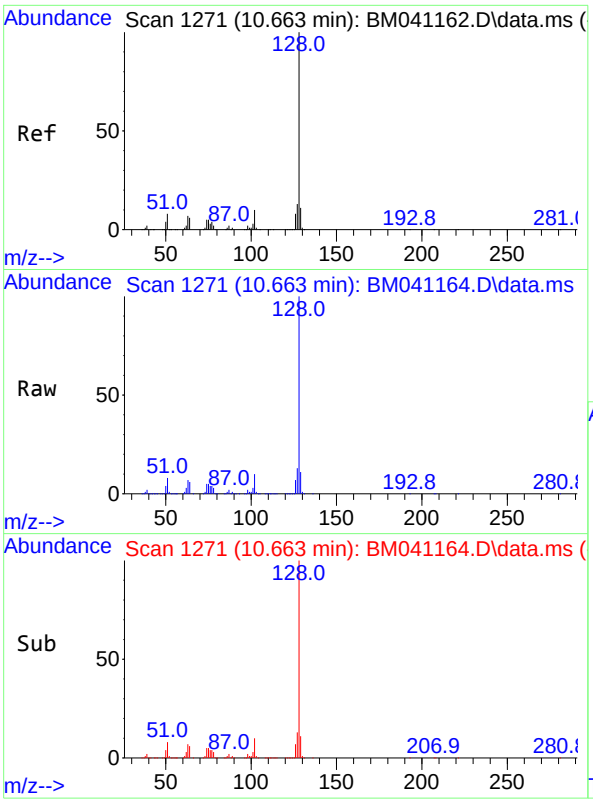


#30
1,2,4-Trichlorobenzene
Concen: 61.676 ng
RT: 10.475 min Scan# 1239
Delta R.T. -0.000 min
Lab File: BM041164.D
Acq: 28 Jul 2023 14:00

Tgt Ion:180 Resp: 691887

Ion	Ratio	Lower	Upper
180	100		
182	94.9	75.9	113.9
145	29.8	23.6	35.4

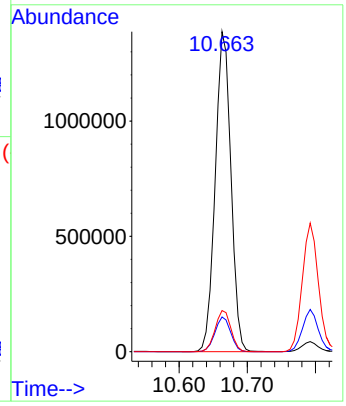




#31
Naphthalene
Concen: 60.815 ng
RT: 10.663 min Scan# 1
Delta R.T. -0.000 min
Lab File: BM041164.D
Acq: 28 Jul 2023 14:00

Tgt Ion:128 Resp: 222125

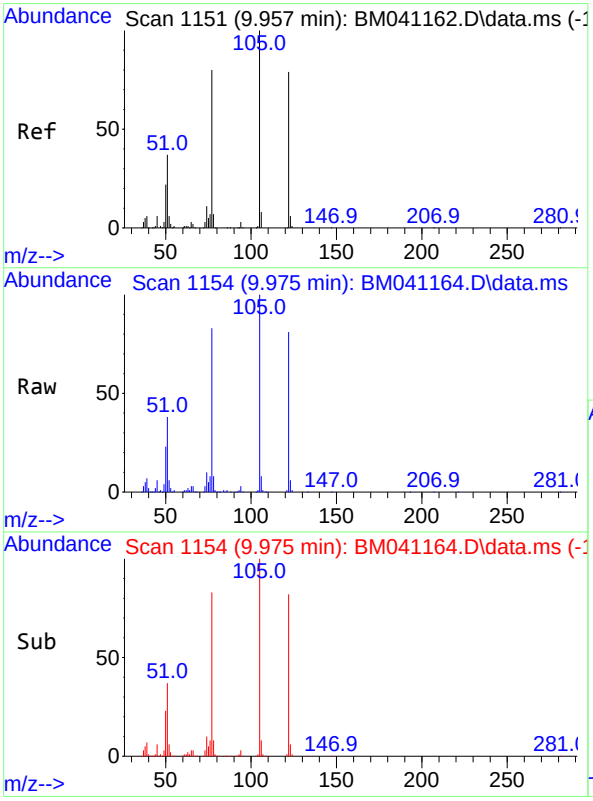
Ion	Ratio	Lower	Upper
128	100		
129	10.8	9.0	13.4
127	12.9	10.5	15.7



Instrument :
BNA_M
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

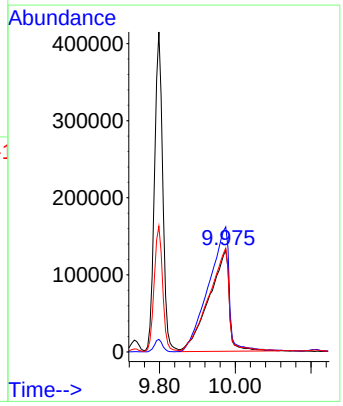
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

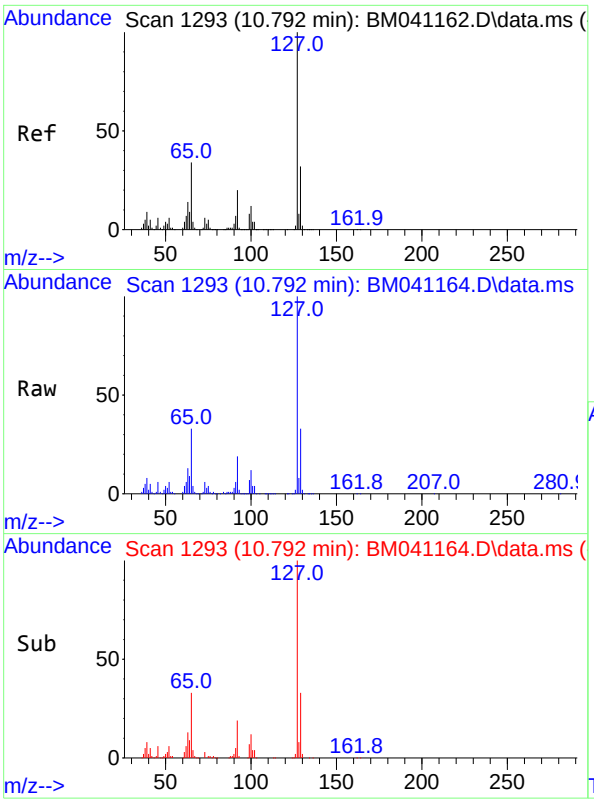


#32
Benzoic acid
Concen: 62.394 ng
RT: 9.975 min Scan# 1154
Delta R.T. 0.018 min
Lab File: BM041164.D
Acq: 28 Jul 2023 14:00

Tgt Ion:122 Resp: 490889

Ion	Ratio	Lower	Upper
122	100		
105	122.9	104.0	144.0
77	102.0	79.9	119.9

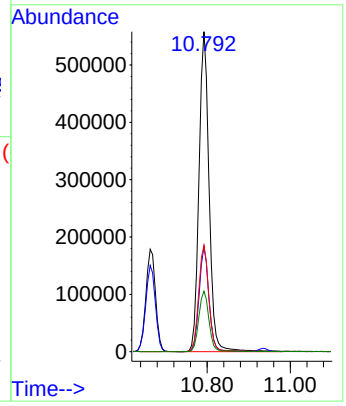




#33
4-Chloroaniline
Concen: 64.353 ng
RT: 10.792 min Scan# 1
Delta R.T. -0.000 min
Lab File: BM041164.D
Acq: 28 Jul 2023 14:00

Tgt Ion:127 Resp: 93933

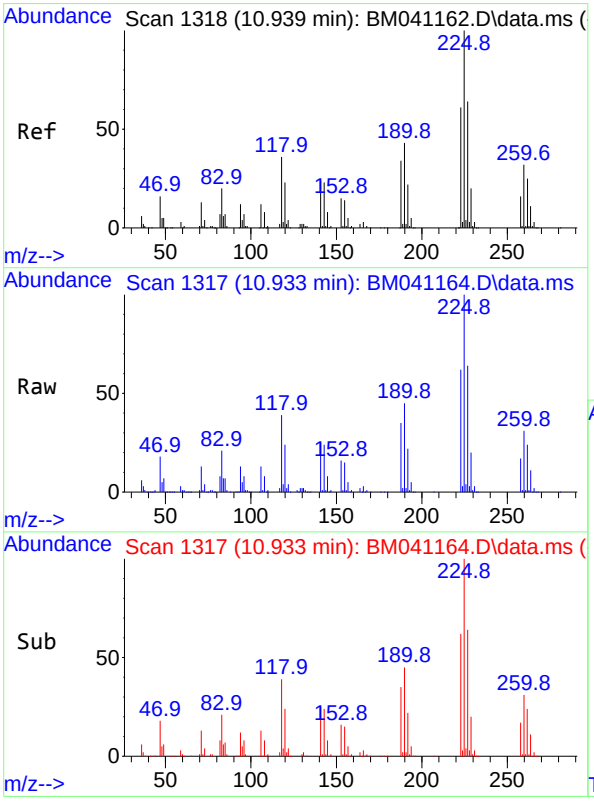
Ion	Ratio	Lower	Upper
127	100		
129	32.8	25.9	38.9
65	33.2	26.9	40.3
92	18.9	15.8	23.6



Instrument :
BNA_M
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

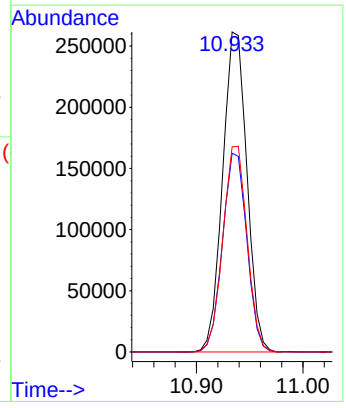
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

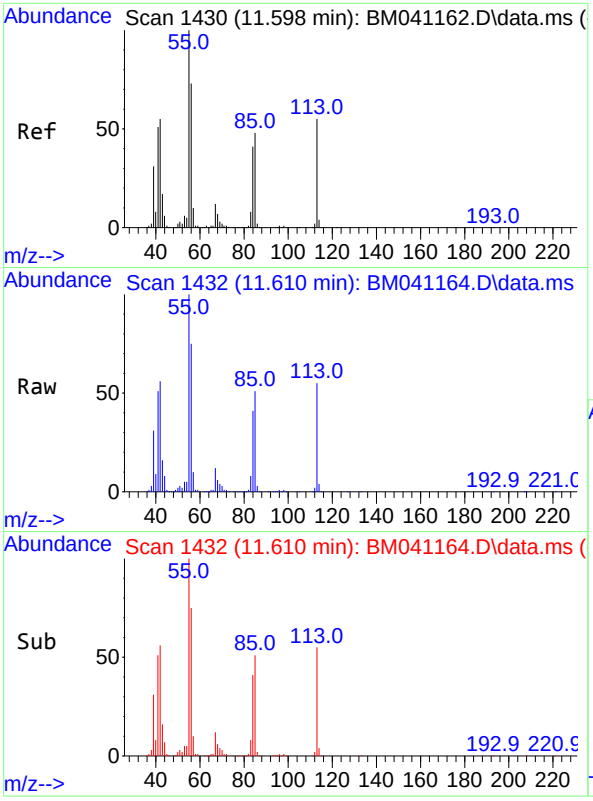


#34
Hexachlorobutadiene
Concen: 61.388 ng
RT: 10.933 min Scan# 1317
Delta R.T. -0.006 min
Lab File: BM041164.D
Acq: 28 Jul 2023 14:00

Tgt Ion:225 Resp: 414181

Ion	Ratio	Lower	Upper
225	100		
223	62.1	49.0	73.4
227	64.1	50.8	76.2





#35
Caprolactam
Concen: 68.856 ng
RT: 11.610 min Scan# 14
Delta R.T. 0.012 min
Lab File: BM041164.D
Acq: 28 Jul 2023 14:00

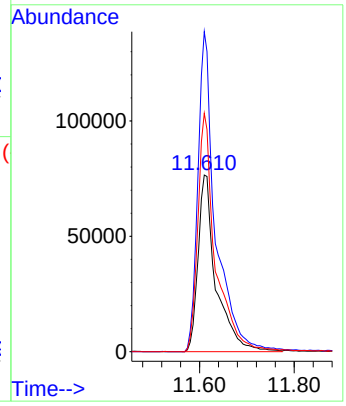
Tgt Ion:113 Resp: 20224

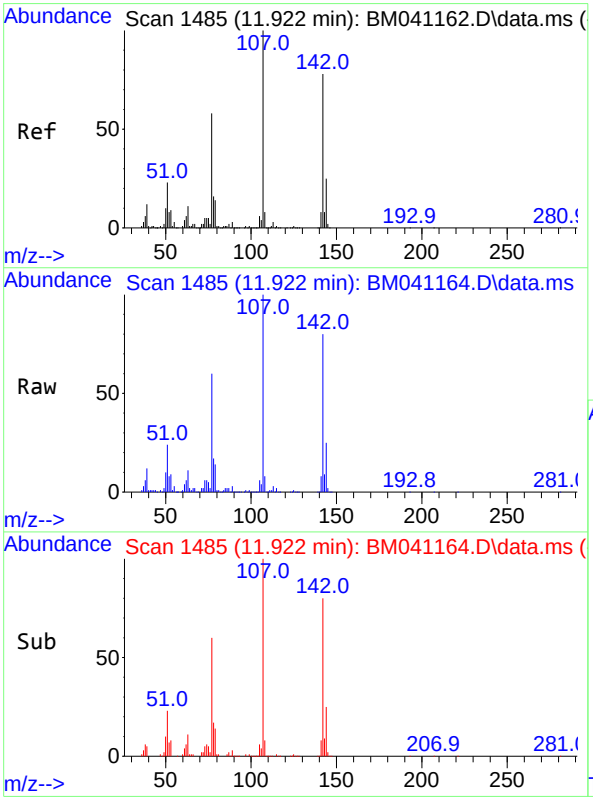
Ion	Ratio	Lower	Upper
113	100		
55	181.2	162.5	202.5
56	135.0	114.1	154.1

Instrument :
BNA_M
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

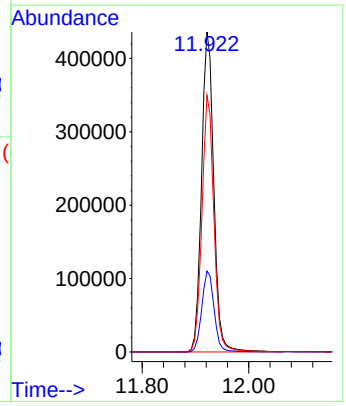


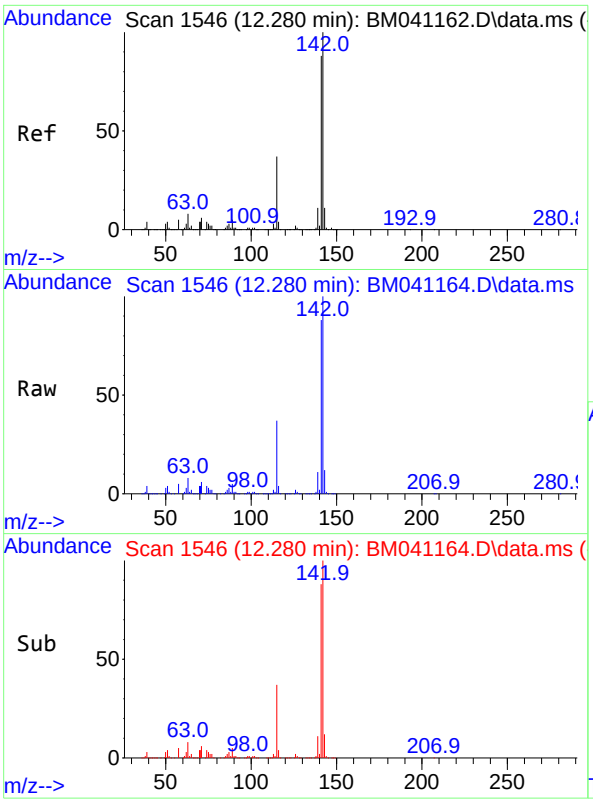


#36
4-Chloro-3-methylphenol
Concen: 64.990 ng
RT: 11.922 min Scan# 1485
Delta R.T. -0.000 min
Lab File: BM041164.D
Acq: 28 Jul 2023 14:00

Tgt Ion:107 Resp: 694542

Ion	Ratio	Lower	Upper
107	100		
144	25.3	20.1	30.1
142	80.2	62.2	93.4

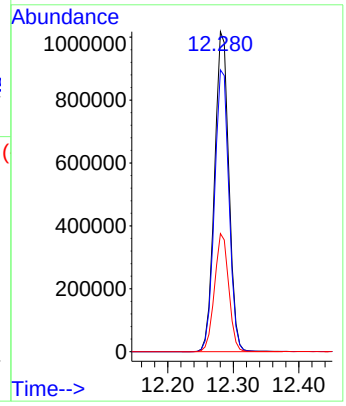




#37
2-Methylnaphthalene
Concen: 62.660 ng
RT: 12.280 min Scan# 1
Delta R.T. -0.000 min
Lab File: BM041164.D
Acq: 28 Jul 2023 14:00

Tgt Ion:142 Resp: 154295

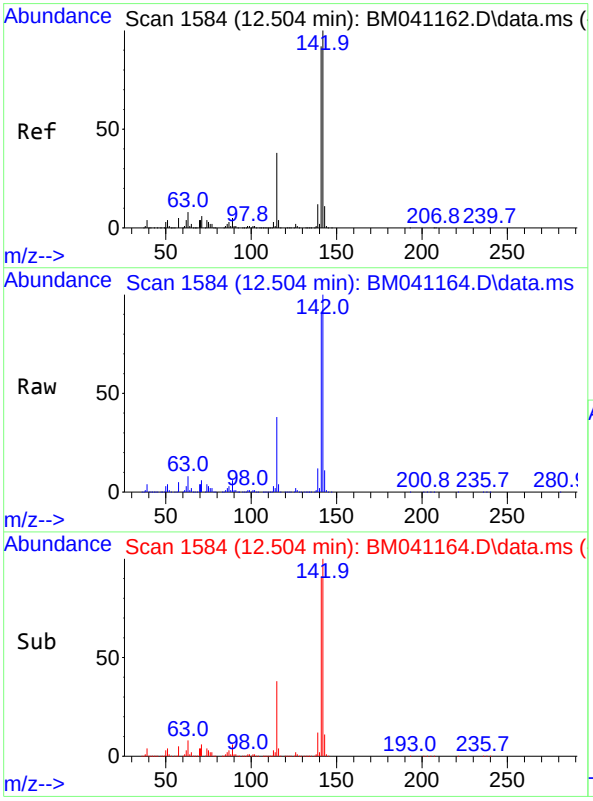
Ion	Ratio	Lower	Upper
142	100		
141	88.1	70.7	106.1
115	36.9	29.3	43.9



Instrument :
BNA_M
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

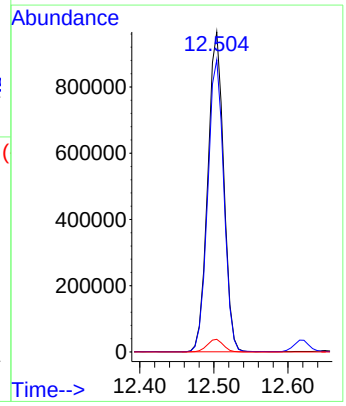
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

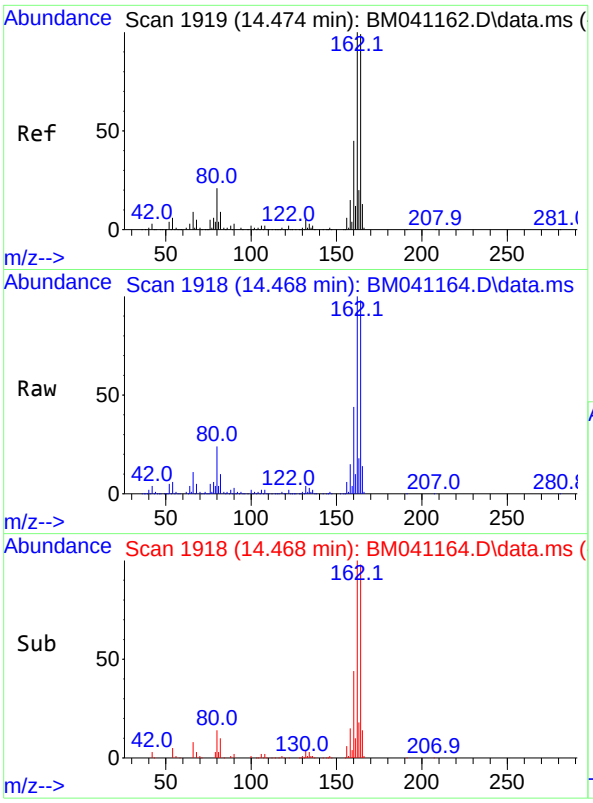


#38
1-Methylnaphthalene
Concen: 62.454 ng
RT: 12.504 min Scan# 1584
Delta R.T. -0.000 min
Lab File: BM041164.D
Acq: 28 Jul 2023 14:00

Tgt Ion:142 Resp: 1439375

Ion	Ratio	Lower	Upper
142	100		
141	91.3	73.4	110.2
116	3.9	3.2	4.8

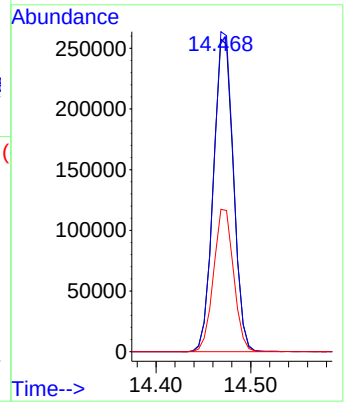




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.468 min Scan# 1
Delta R.T. -0.006 min
Lab File: BM041164.D
Acq: 28 Jul 2023 14:00

Tgt Ion:164 Resp: 37842

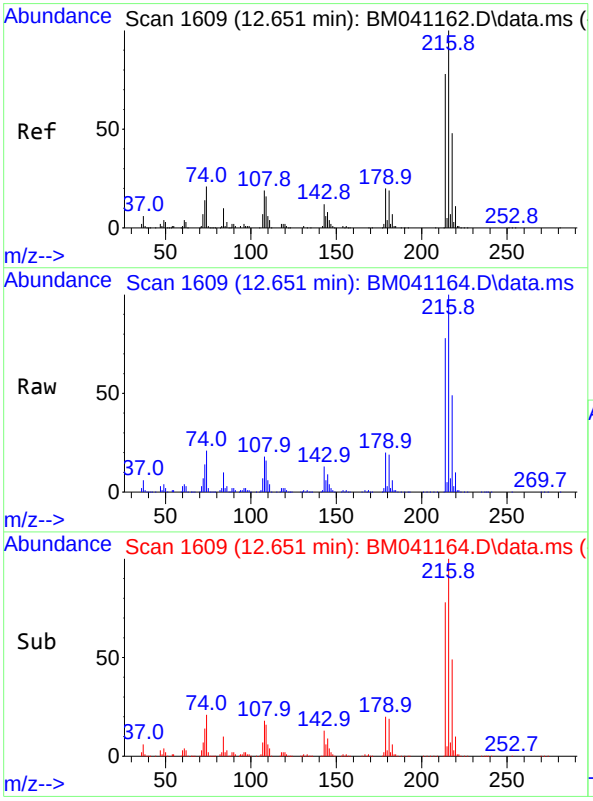
Ion	Ratio	Lower	Upper
164	100		
162	102.4	80.4	120.6
160	45.6	36.2	54.2



Instrument :
BNA_M
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

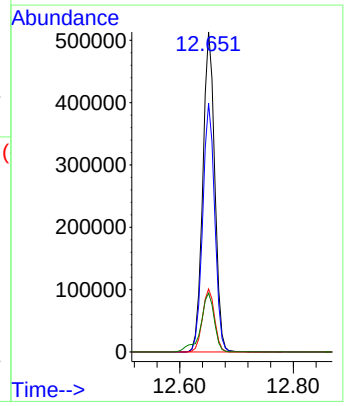
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

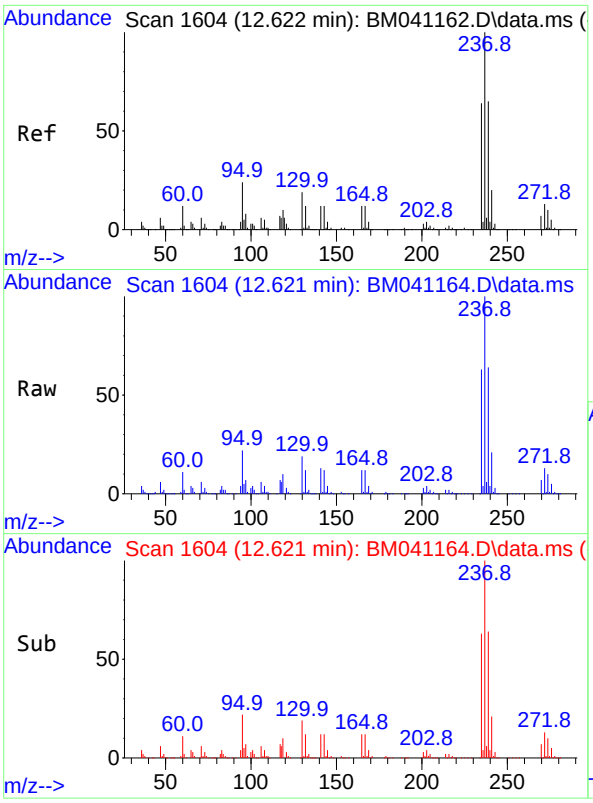


#40
1,2,4,5-Tetrachlorobenzene
Concen: 60.943 ng
RT: 12.651 min Scan# 1609
Delta R.T. -0.000 min
Lab File: BM041164.D
Acq: 28 Jul 2023 14:00

Tgt Ion:216 Resp: 748862

Ion	Ratio	Lower	Upper
216	100		
214	78.3	63.2	94.8
179	20.0	16.2	24.2
108	21.0	17.0	25.4





#41
Hexachlorocyclopentadiene
Concen: 63.238 ng
RT: 12.621 min Scan# 1
Delta R.T. -0.001 min
Lab File: BM041164.D
Acq: 28 Jul 2023 14:00

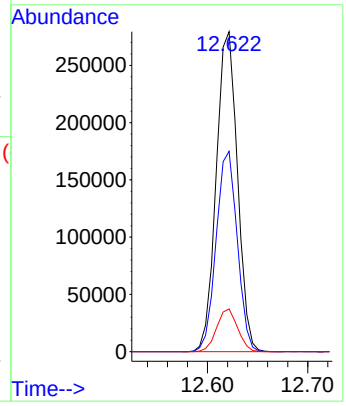
Tgt Ion:237 Resp: 41110

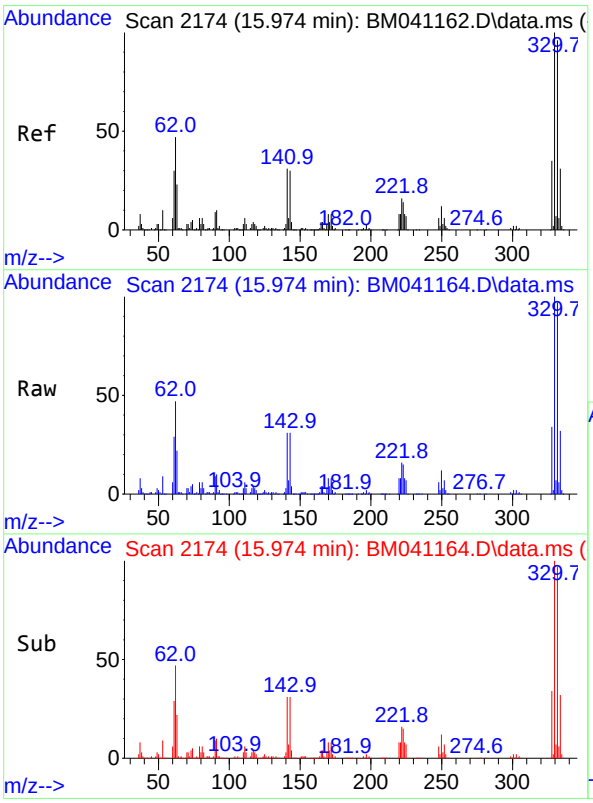
Ion	Ratio	Lower	Upper
237	100		
235	62.6	43.6	83.6
272	13.4	0.0	33.3

Instrument :
BNA_M
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

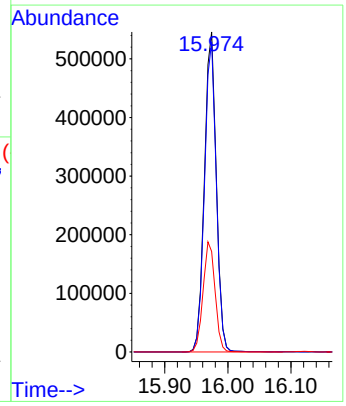


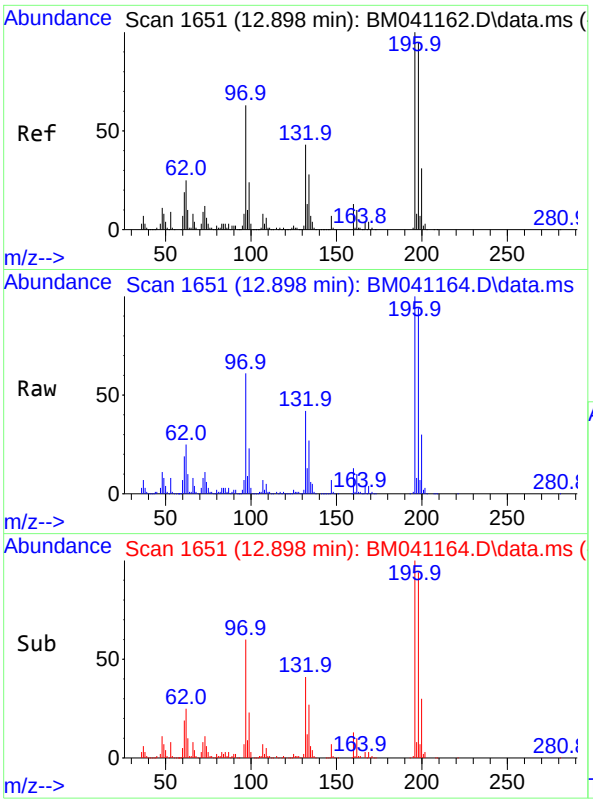


#42
2,4,6-Tribromophenol
Concen: 132.783 ng
RT: 15.974 min Scan# 2174
Delta R.T. -0.000 min
Lab File: BM041164.D
Acq: 28 Jul 2023 14:00

Tgt Ion:330 Resp: 710741

Ion	Ratio	Lower	Upper
330	100		
332	96.5	77.7	116.5
141	35.0	28.3	42.5

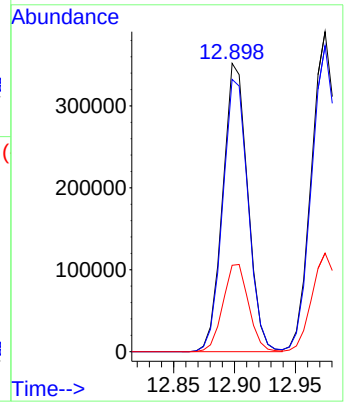




#43
2,4,6-Trichlorophenol
Concen: 64.031 ng
RT: 12.898 min Scan# 1
Delta R.T. -0.000 min
Lab File: BM041164.D
Acq: 28 Jul 2023 14:00

Tgt Ion:196 Resp: 50429

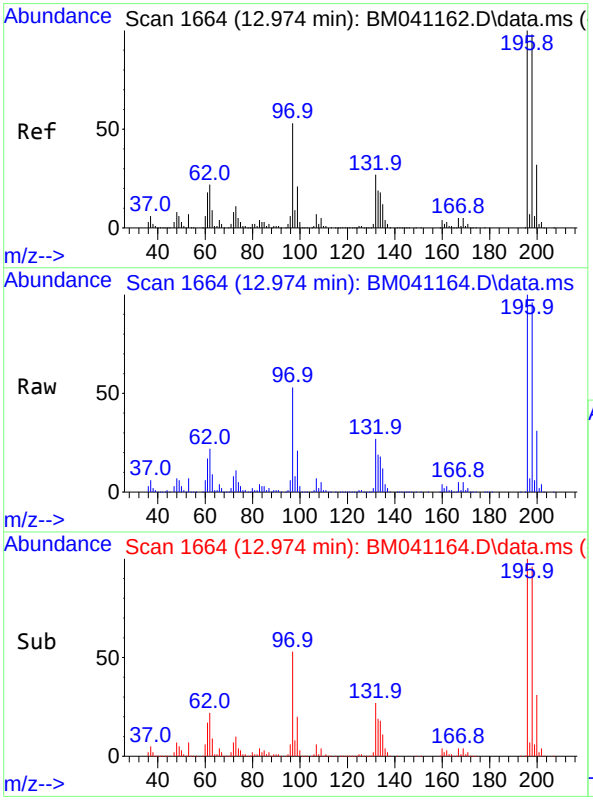
Ion	Ratio	Lower	Upper
196	100		
198	94.5	76.2	114.4
200	30.0	24.6	36.8



Instrument :
BNA_M
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

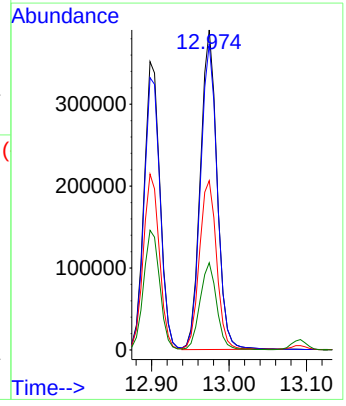
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

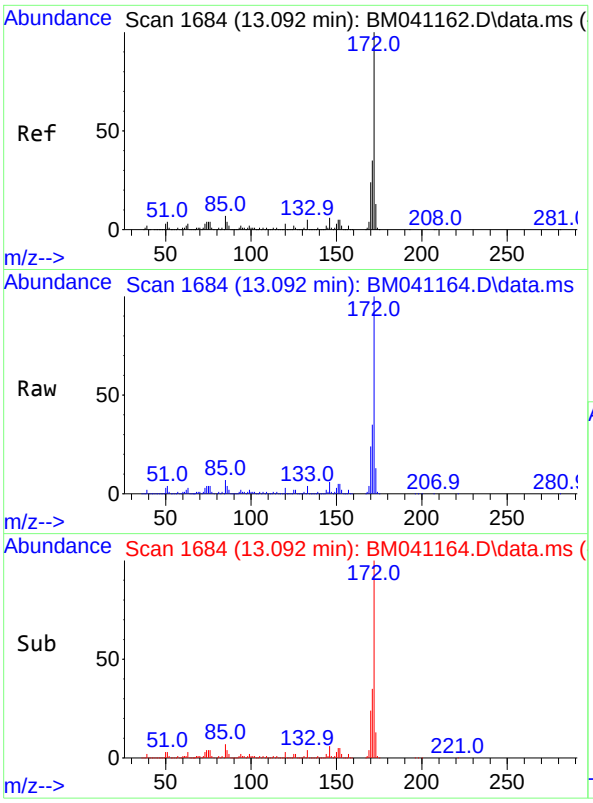


#44
2,4,5-Trichlorophenol
Concen: 63.962 ng
RT: 12.974 min Scan# 1664
Delta R.T. 0.000 min
Lab File: BM041164.D
Acq: 28 Jul 2023 14:00

Tgt Ion:196 Resp: 583057

Ion	Ratio	Lower	Upper
196	100		
198	95.7	78.2	117.4
97	52.9	42.7	64.1
132	27.2	21.6	32.4





#45
2-Fluorobiphenyl
Concen: 122.314 ng
RT: 13.092 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BM041164.D
Acq: 28 Jul 2023 14:00

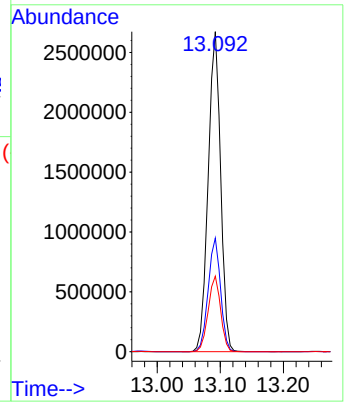
Tgt Ion:172 Resp: 3664099

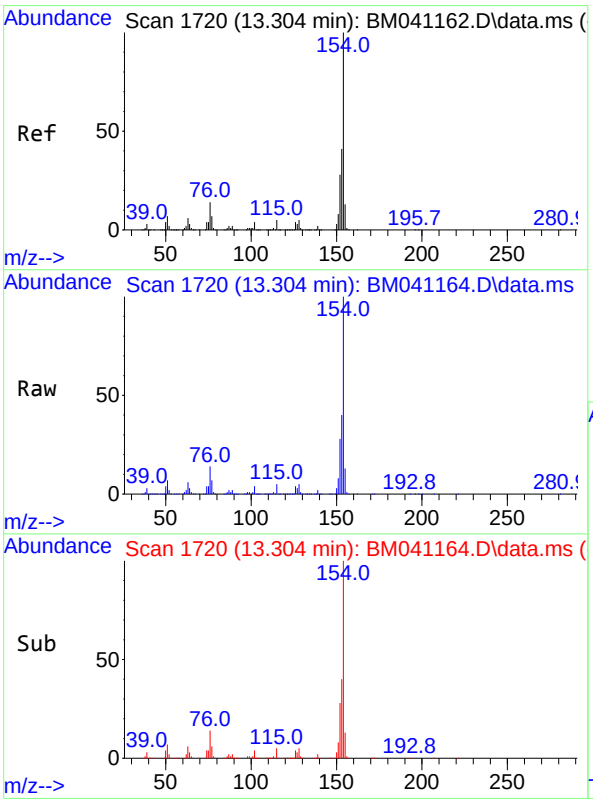
Ion	Ratio	Lower	Upper
172	100		
171	35.5	28.1	42.1
170	23.6	18.9	28.3

Instrument :
BNA_M
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

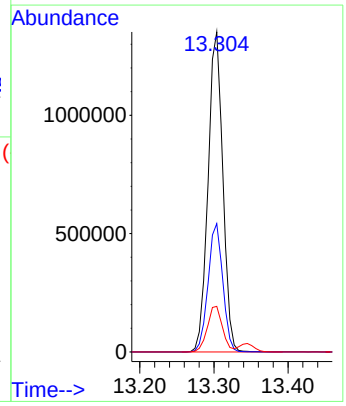


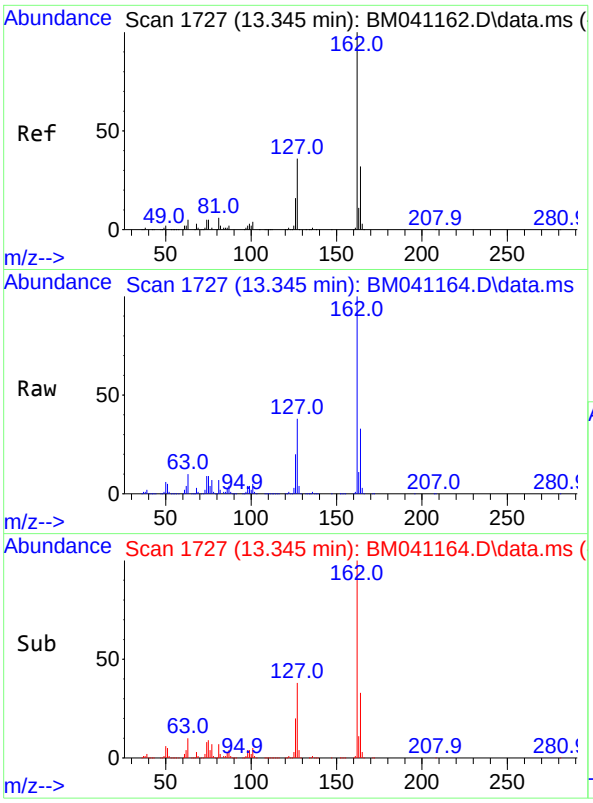


#46
1,1'-Biphenyl
Concen: 61.007 ng
RT: 13.304 min Scan# 1720
Delta R.T. -0.000 min
Lab File: BM041164.D
Acq: 28 Jul 2023 14:00

Tgt Ion:154 Resp: 1871618

Ion	Ratio	Lower	Upper
154	100		
153	40.1	20.5	60.5
76	14.3	0.0	34.1

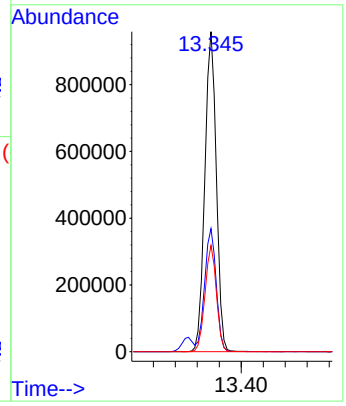




#47
2-Chloronaphthalene
Concen: 60.729 ng
RT: 13.345 min Scan# 1
Delta R.T. -0.000 min
Lab File: BM041164.D
Acq: 28 Jul 2023 14:00

Tgt Ion:162 Resp: 139110

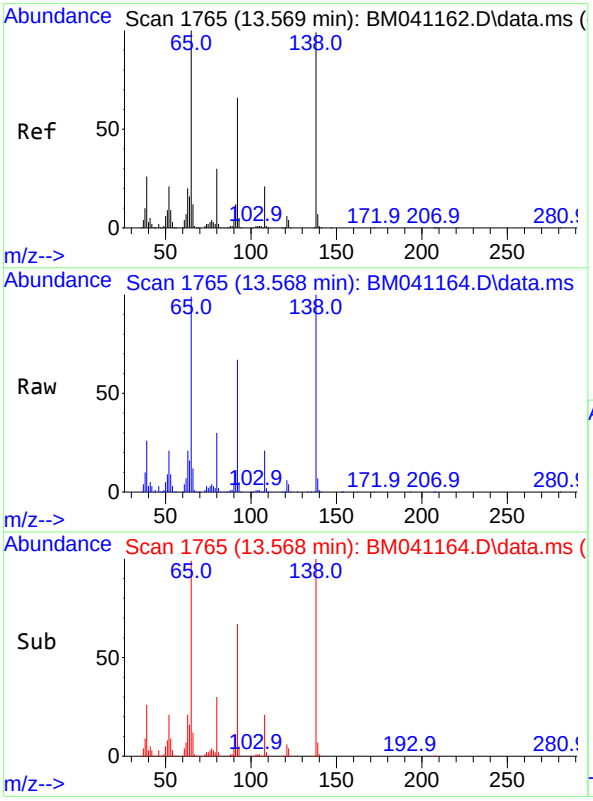
Ion	Ratio	Lower	Upper
162	100		
127	38.5	30.6	45.8
164	33.2	25.6	38.4



Instrument :
BNA_M
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

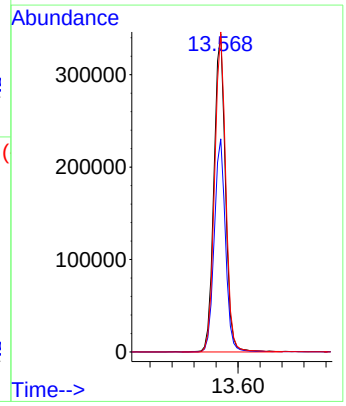
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

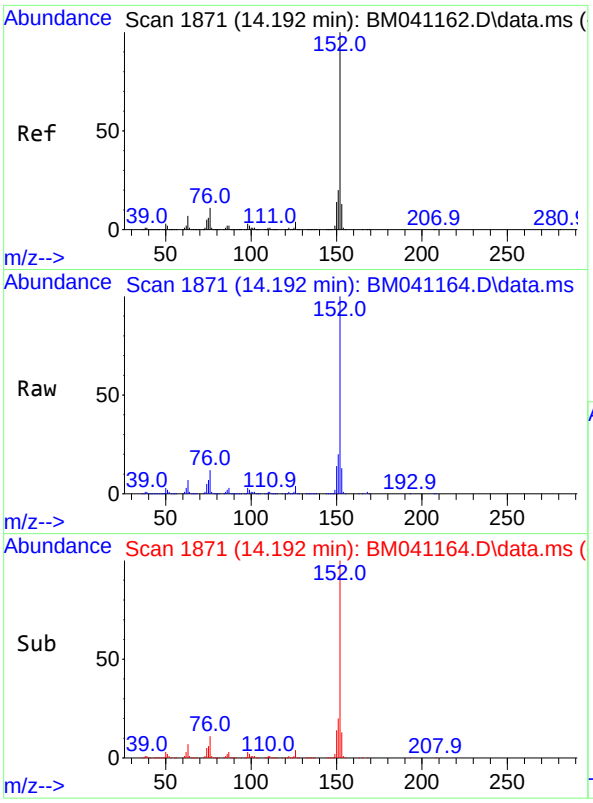


#48
2-Nitroaniline
Concen: 68.085 ng
RT: 13.568 min Scan# 1765
Delta R.T. -0.001 min
Lab File: BM041164.D
Acq: 28 Jul 2023 14:00

Tgt Ion: 65 Resp: 497827

Ion	Ratio	Lower	Upper
65	100		
92	67.1	53.0	79.4
138	100.7	79.1	118.7

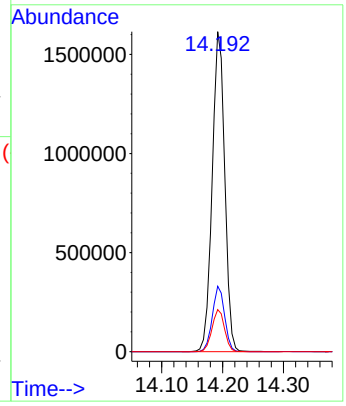




#49
Acenaphthylene
Concen: 62.561 ng
RT: 14.192 min Scan# 1
Delta R.T. -0.000 min
Lab File: BM041164.D
Acq: 28 Jul 2023 14:00

Tgt Ion:152 Resp: 231310

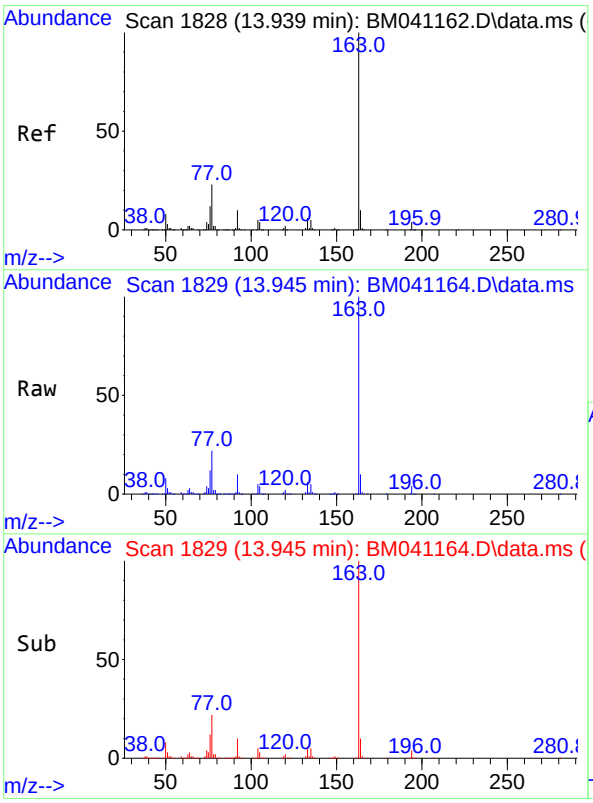
Ion	Ratio	Lower	Upper
152	100		
151	20.5	16.1	24.1
153	13.1	10.5	15.7



Instrument :
BNA_M
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

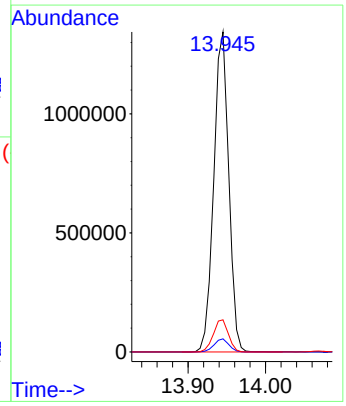
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

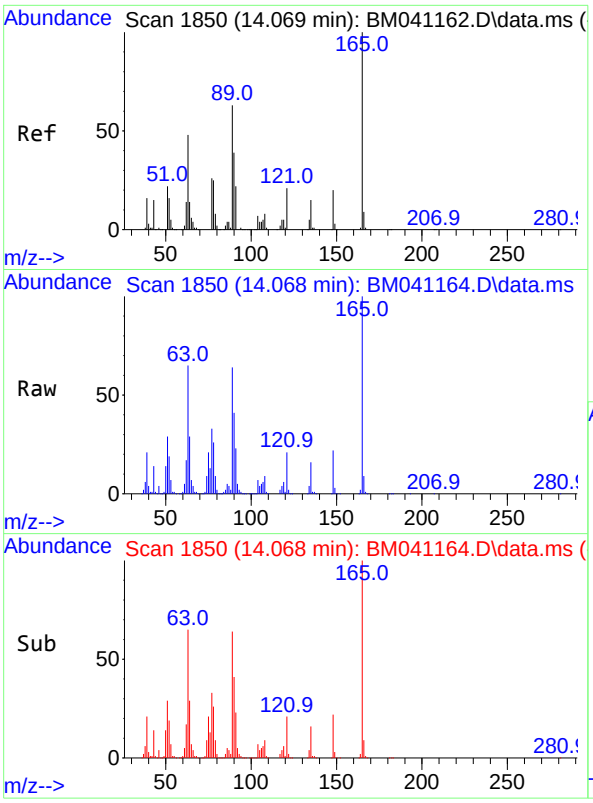


#50
Dimethylphthalate
Concen: 63.344 ng
RT: 13.945 min Scan# 1829
Delta R.T. 0.006 min
Lab File: BM041164.D
Acq: 28 Jul 2023 14:00

Tgt Ion:163 Resp: 1803136

Ion	Ratio	Lower	Upper
163	100		
194	4.1	3.3	4.9
164	10.0	8.3	12.5





#51
2,6-Dinitrotoluene
Concen: 65.756 ng
RT: 14.068 min Scan# 1
Delta R.T. -0.001 min
Lab File: BM041164.D
Acq: 28 Jul 2023 14:00

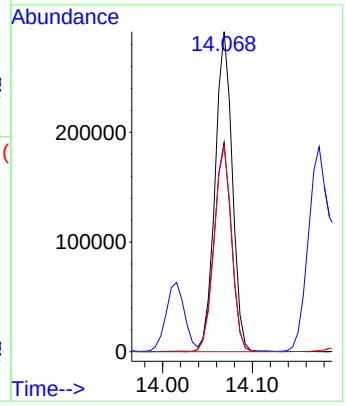
Tgt Ion:165 Resp: 38783

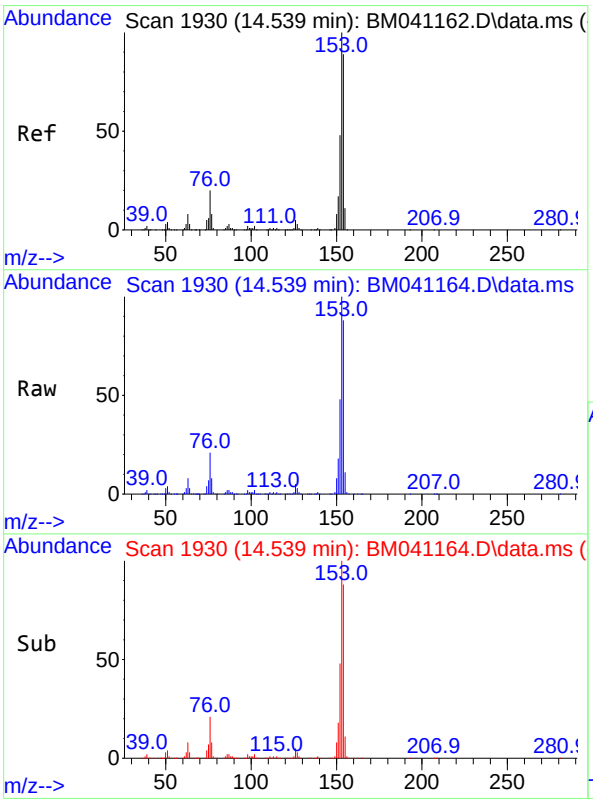
Ion	Ratio	Lower	Upper
165	100		
63	65.4	50.9	76.3
89	64.1	50.6	76.0

Instrument :
BNA_M
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

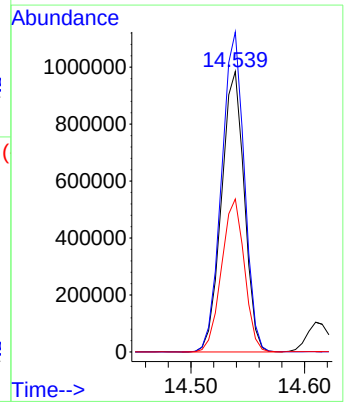


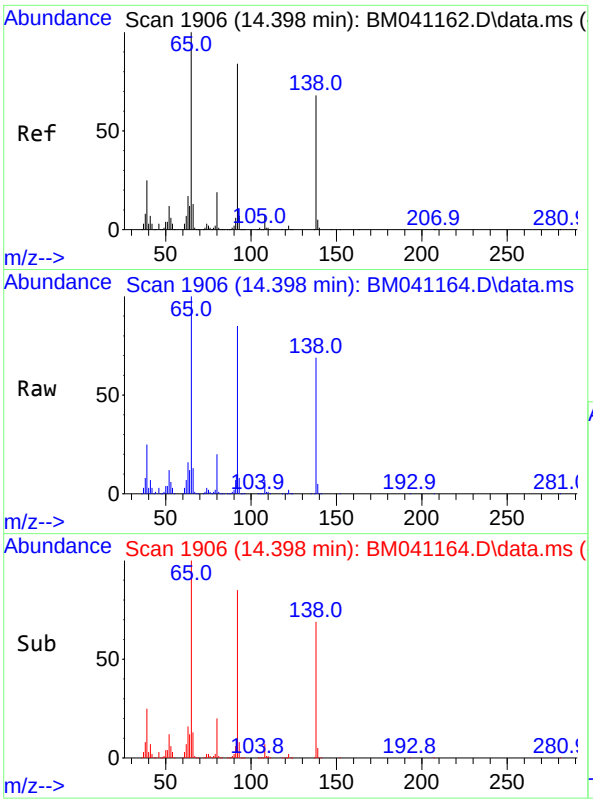


#52
Acenaphthene
Concen: 61.698 ng
RT: 14.539 min Scan# 1930
Delta R.T. 0.000 min
Lab File: BM041164.D
Acq: 28 Jul 2023 14:00

Tgt Ion:154 Resp: 1374233

Ion	Ratio	Lower	Upper
154	100		
153	114.1	90.2	135.4
152	54.5	43.4	65.0





#53
3-Nitroaniline
Concen: 61.970 ng
RT: 14.398 min Scan# 1
Delta R.T. -0.000 min
Lab File: BM041164.D
Acq: 28 Jul 2023 14:00

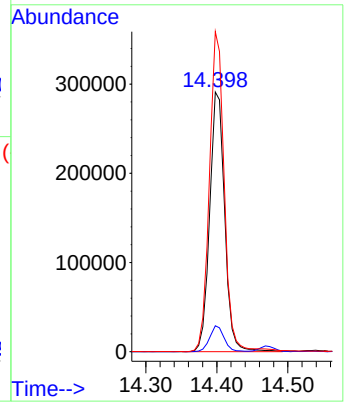
Tgt Ion:138 Resp: 42836

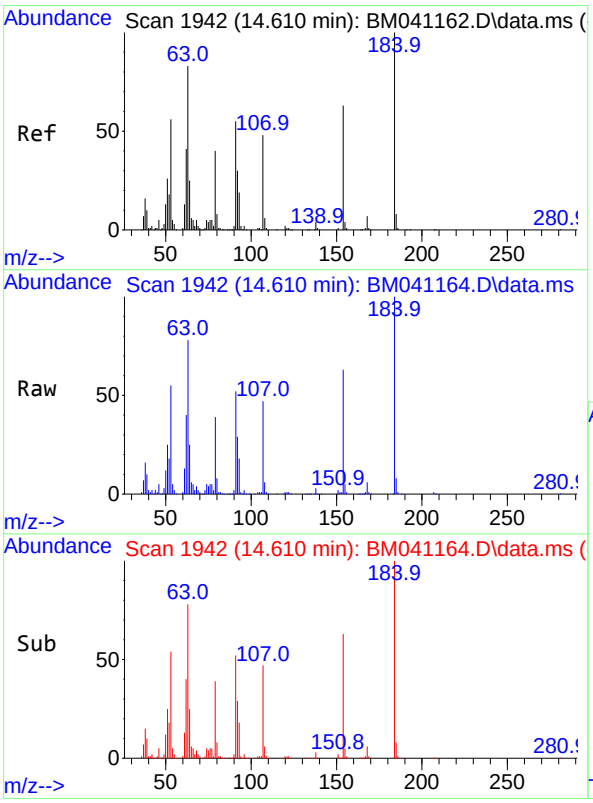
Ion	Ratio	Lower	Upper
138	100		
108	10.0	7.6	11.4
92	123.2	98.9	148.3

Instrument :
BNA_M
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

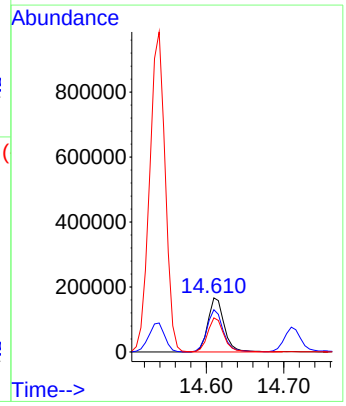


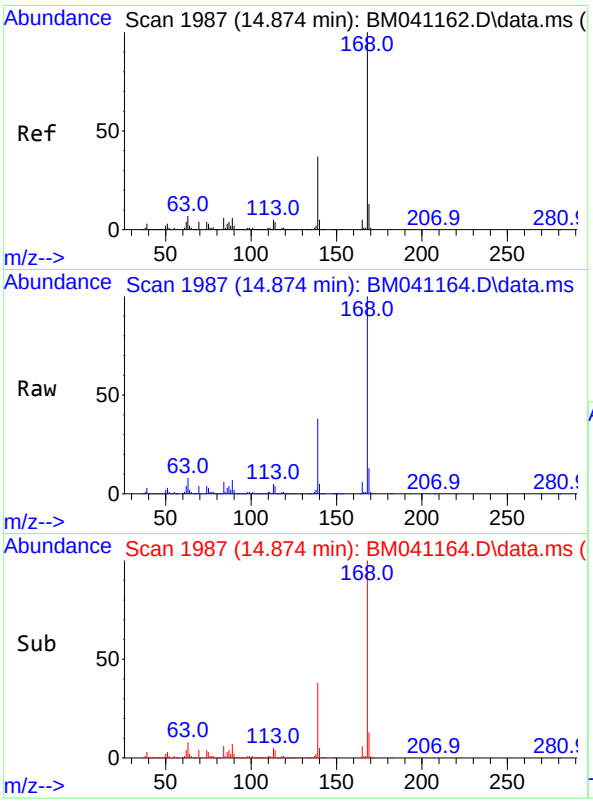


#54
2,4-Dinitrophenol
Concen: 62.144 ng
RT: 14.610 min Scan# 1942
Delta R.T. -0.000 min
Lab File: BM041164.D
Acq: 28 Jul 2023 14:00

Tgt Ion:184 Resp: 241923

Ion	Ratio	Lower	Upper
184	100		
63	78.2	66.5	99.7
154	62.9	52.8	79.2

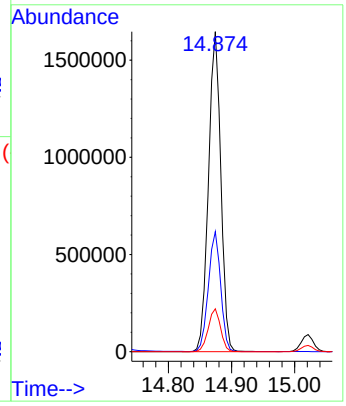




#55
Dibenzofuran
Concen: 61.653 ng
RT: 14.874 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM041164.D
Acq: 28 Jul 2023 14:00

Tgt Ion:168 Resp: 224050

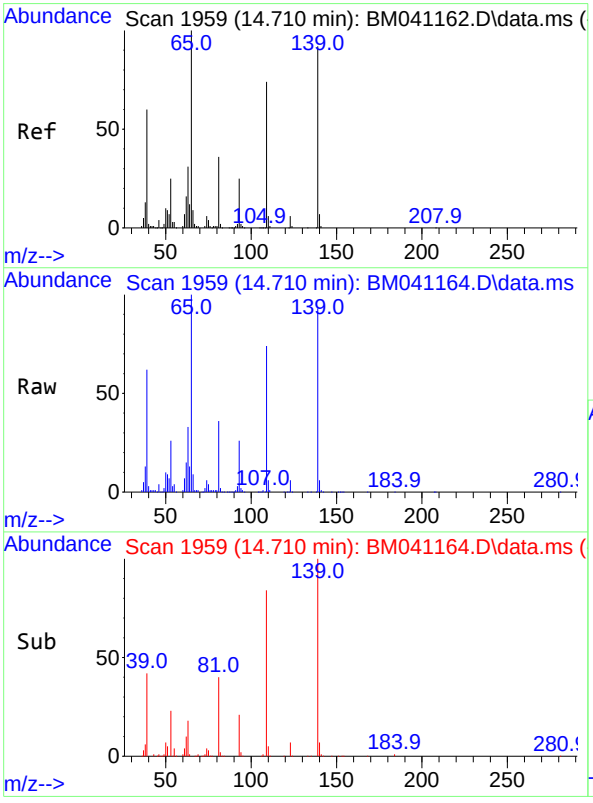
Ion	Ratio	Lower	Upper
168	100		
139	37.5	29.8	44.6
169	13.4	10.5	15.7



Instrument :
BNA_M
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

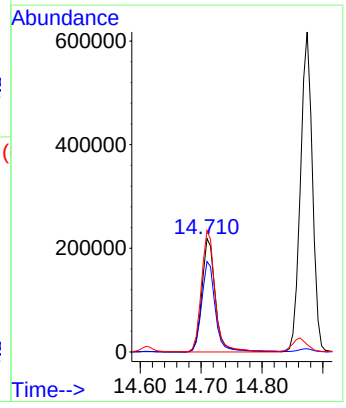
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

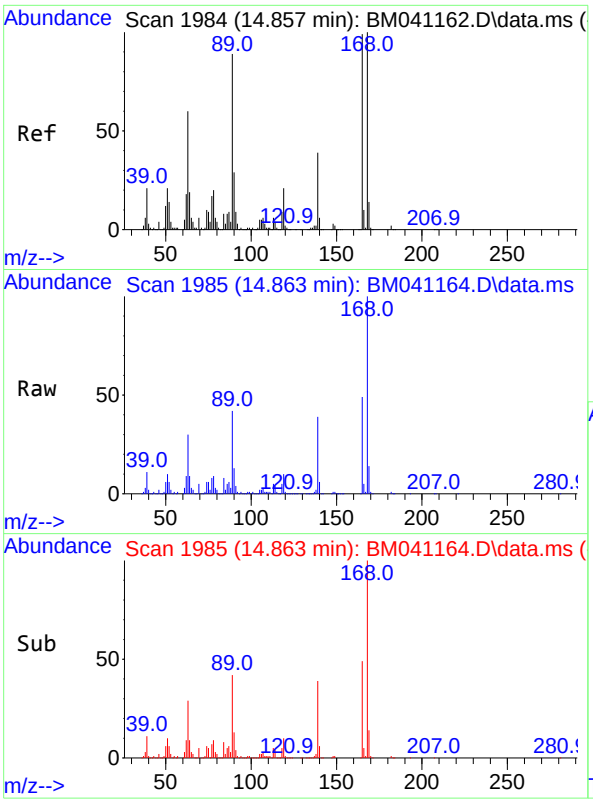


#56
4-Nitrophenol
Concen: 68.581 ng
RT: 14.710 min Scan# 1959
Delta R.T. -0.000 min
Lab File: BM041164.D
Acq: 28 Jul 2023 14:00

Tgt Ion:139 Resp: 337118

Ion	Ratio	Lower	Upper
139	100		
109	79.7	61.2	101.2
65	107.0	89.5	129.5

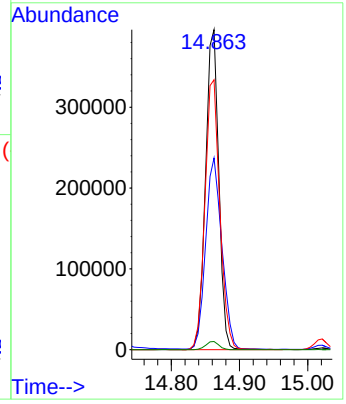




#57
2,4-Dinitrotoluene
Concen: 62.559 ng
RT: 14.863 min Scan# 1
Delta R.T. 0.006 min
Lab File: BM041164.D
Acq: 28 Jul 2023 14:00

Tgt Ion:165 Resp: 53415

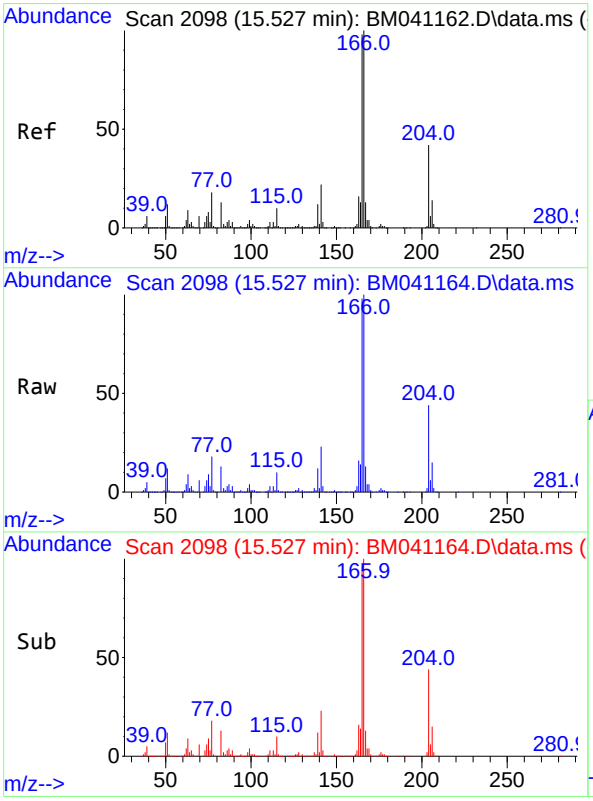
Ion	Ratio	Lower	Upper
165	100		
63	59.9	48.3	72.5
89	84.3	71.8	107.8
182	2.5	2.0	3.0



Instrument :
BNA_M
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

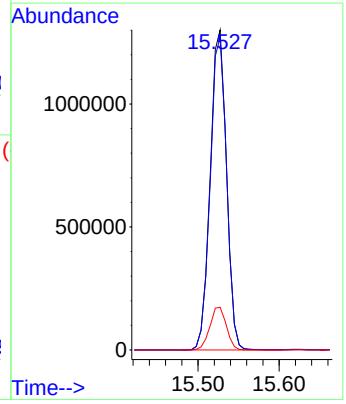
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

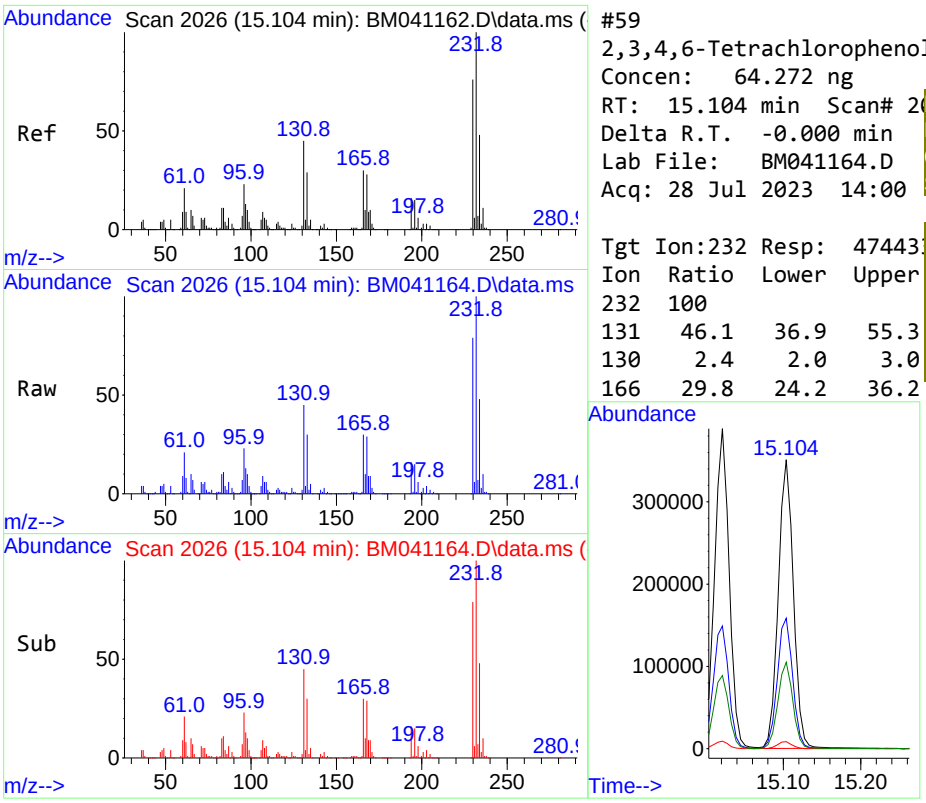


#58
Fluorene
Concen: 62.966 ng
RT: 15.527 min Scan# 2098
Delta R.T. -0.000 min
Lab File: BM041164.D
Acq: 28 Jul 2023 14:00

Tgt Ion:166 Resp: 1805170

Ion	Ratio	Lower	Upper
166	100		
165	97.7	78.2	117.4
167	13.4	10.6	16.0





#59
2,3,4,6-Tetrachlorophenol
Concen: 64.272 ng
RT: 15.104 min Scan# 2
Delta R.T. -0.000 min
Lab File: BM041164.D
Acq: 28 Jul 2023 14:00

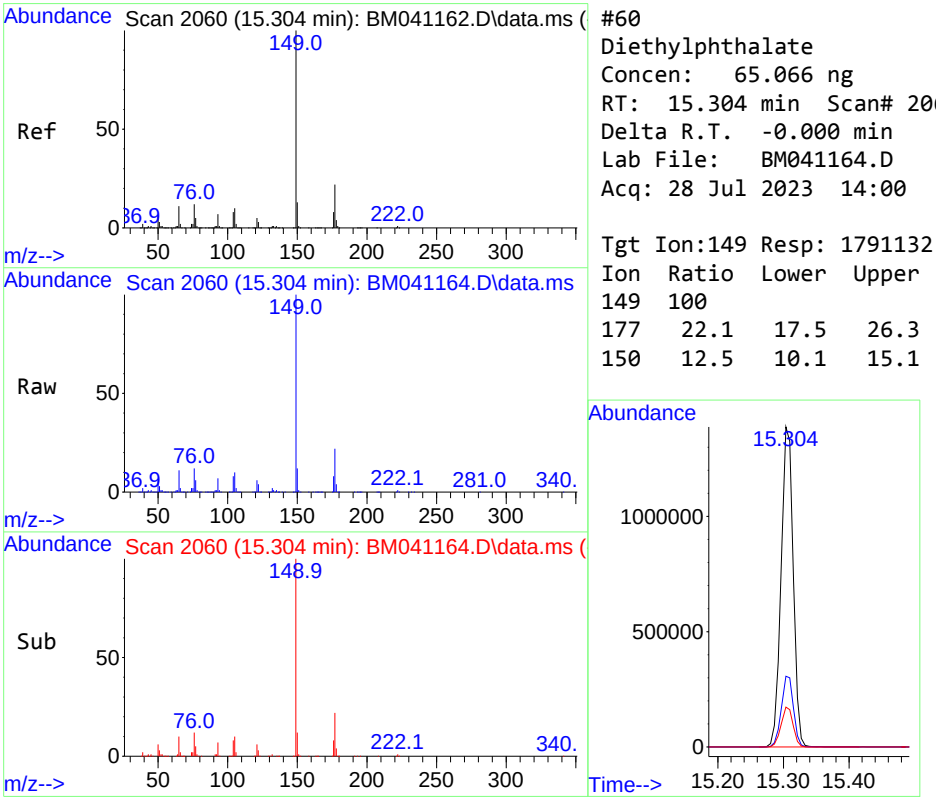
Tgt Ion:232 Resp: 47443

Ion	Ratio	Lower	Upper
232	100		
131	46.1	36.9	55.3
130	2.4	2.0	3.0
166	29.8	24.2	36.2

Instrument :
BNA_M
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

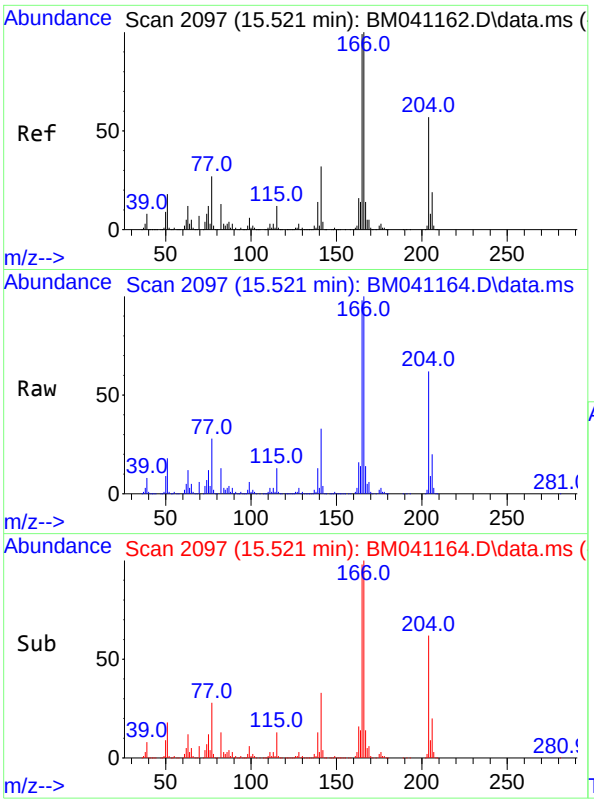
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023



#60
Diethylphthalate
Concen: 65.066 ng
RT: 15.304 min Scan# 2060
Delta R.T. -0.000 min
Lab File: BM041164.D
Acq: 28 Jul 2023 14:00

Tgt Ion:149 Resp: 1791132

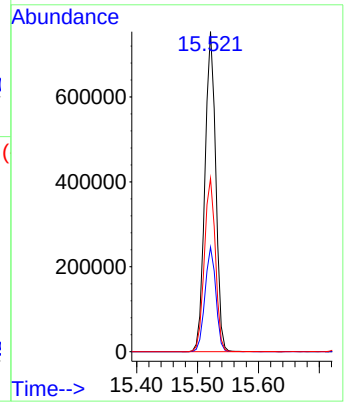
Ion	Ratio	Lower	Upper
149	100		
177	22.1	17.5	26.3
150	12.5	10.1	15.1



#61
4-Chlorophenyl-phenylether
Concen: 64.625 ng
RT: 15.521 min Scan# 2
Delta R.T. -0.000 min
Lab File: BM041164.D
Acq: 28 Jul 2023 14:00

Tgt Ion:204 Resp: 92841

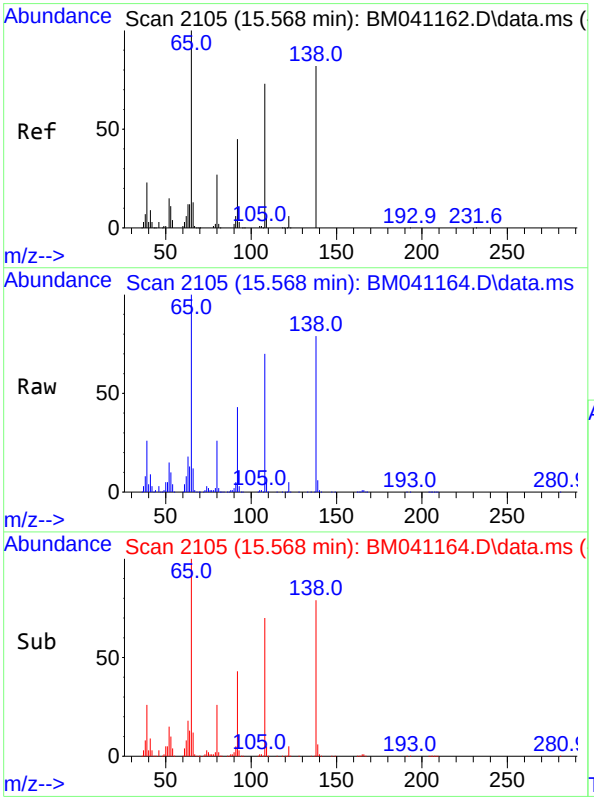
Ion	Ratio	Lower	Upper
204	100		
206	32.7	26.5	39.7
141	54.1	44.8	67.2



Instrument :
BNA_M
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

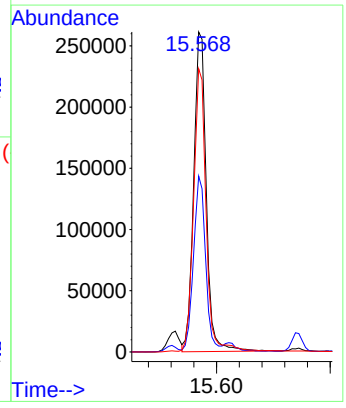
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

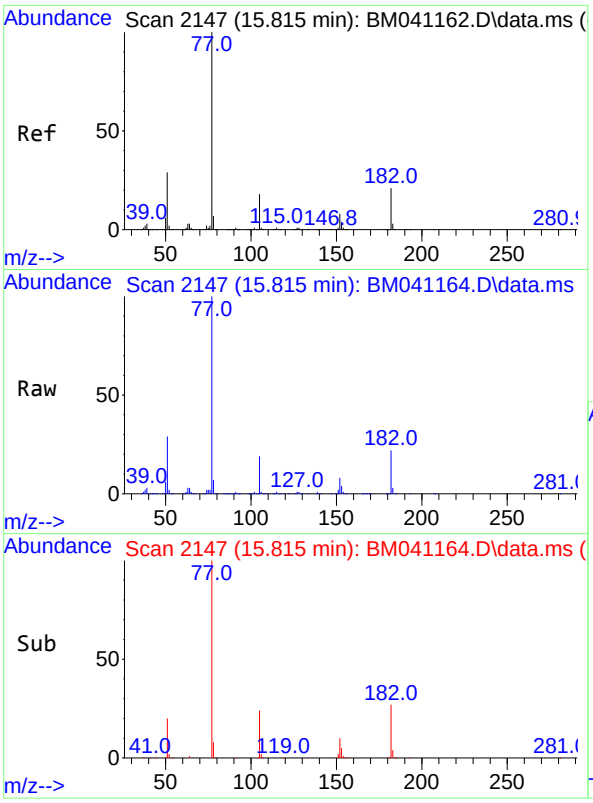


#62
4-Nitroaniline
Concen: 62.308 ng
RT: 15.568 min Scan# 2105
Delta R.T. 0.000 min
Lab File: BM041164.D
Acq: 28 Jul 2023 14:00

Tgt Ion:138 Resp: 400476

Ion	Ratio	Lower	Upper
138	100		
92	54.9	35.1	75.1
108	88.5	67.8	107.8

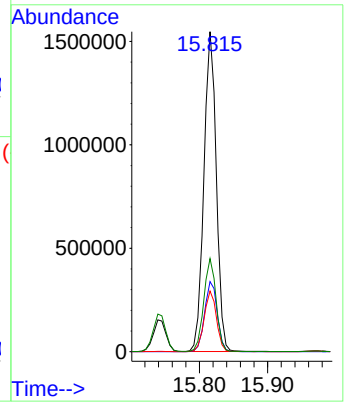




#63
Azobenzene
Concen: 64.840 ng
RT: 15.815 min Scan# 21
Delta R.T. 0.000 min
Lab File: BM041164.D
Acq: 28 Jul 2023 14:00

Tgt Ion: 77 Resp: 195517

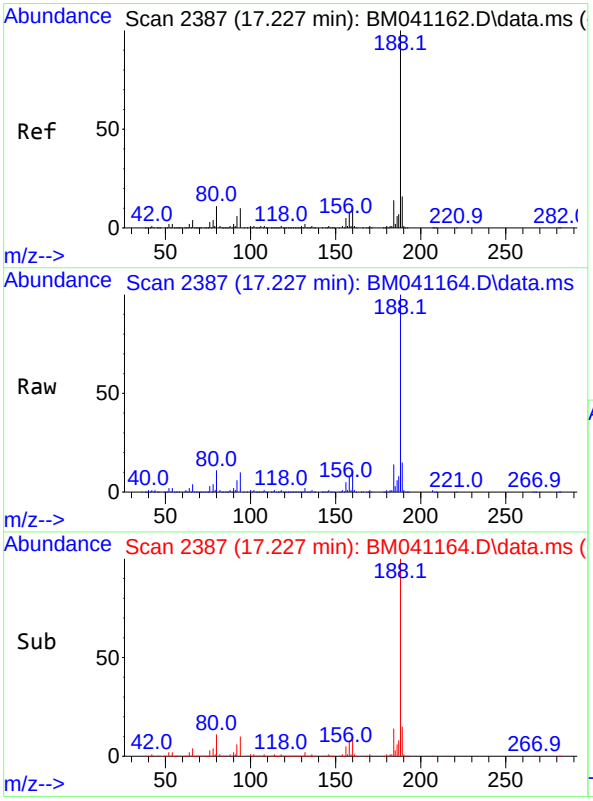
Ion	Ratio	Lower	Upper
77	100		
182	21.9	1.3	41.3
105	19.0	0.0	38.5
51	29.1	9.1	49.1



Instrument :
BNA_M
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

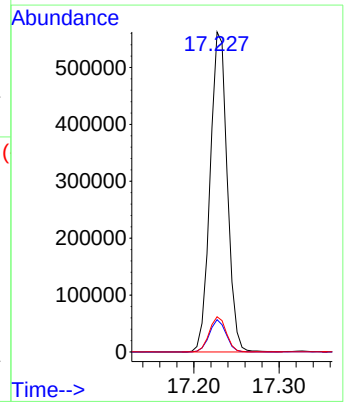
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

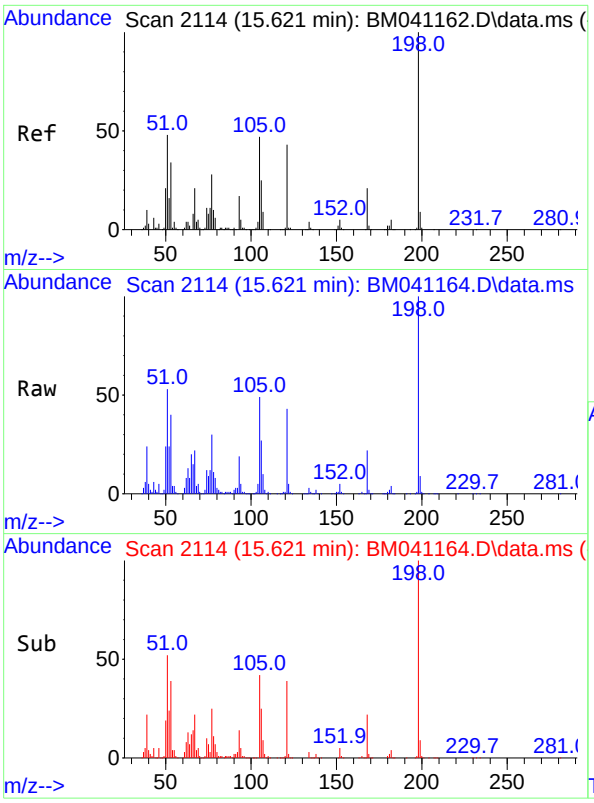


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.227 min Scan# 2387
Delta R.T. -0.000 min
Lab File: BM041164.D
Acq: 28 Jul 2023 14:00

Tgt Ion:188 Resp: 785556

Ion	Ratio	Lower	Upper
188	100		
94	10.1	8.2	12.2
80	11.0	8.6	13.0

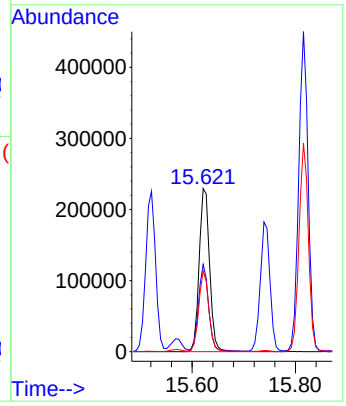




#65
4,6-Dinitro-2-methylphenol
Concen: 67.490 ng
RT: 15.621 min Scan# 2
Delta R.T. 0.000 min
Lab File: BM041164.D
Acq: 28 Jul 2023 14:00

Tgt Ion:198 Resp: 32117

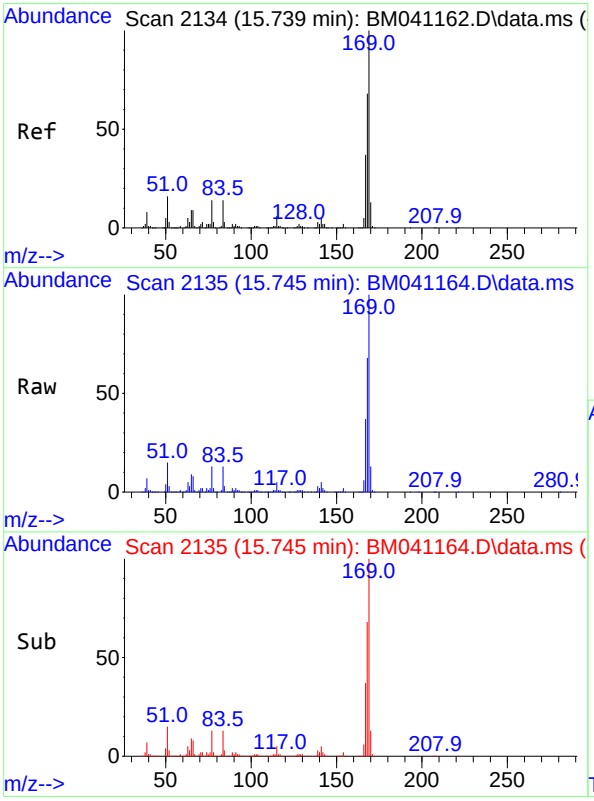
Ion	Ratio	Lower	Upper
198	100		
51	53.5	31.7	71.7
105	49.5	27.8	67.8



Instrument :
BNA_M
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

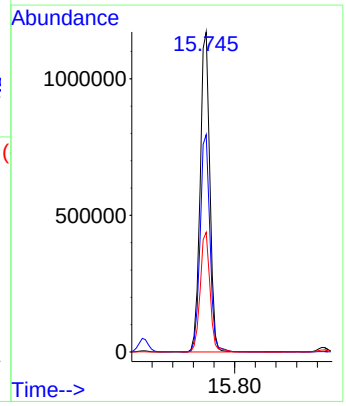
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

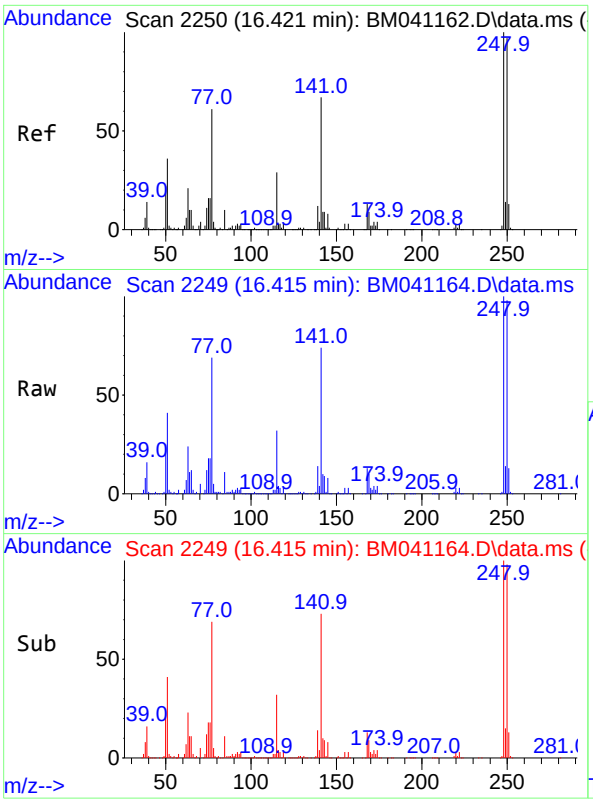


#66
n-Nitrosodiphenylamine
Concen: 62.004 ng
RT: 15.745 min Scan# 2135
Delta R.T. 0.006 min
Lab File: BM041164.D
Acq: 28 Jul 2023 14:00

Tgt Ion:169 Resp: 1514857

Ion	Ratio	Lower	Upper
169	100		
168	67.9	54.6	81.8
167	37.4	29.9	44.9

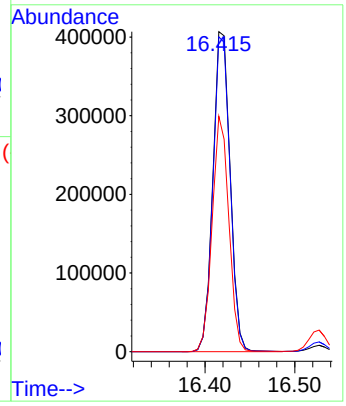




#67
4-Bromophenyl-phenylether
Concen: 63.182 ng
RT: 16.415 min Scan# 2
Delta R.T. -0.006 min
Lab File: BM041164.D
Acq: 28 Jul 2023 14:00

Tgt Ion:248 Resp: 54418

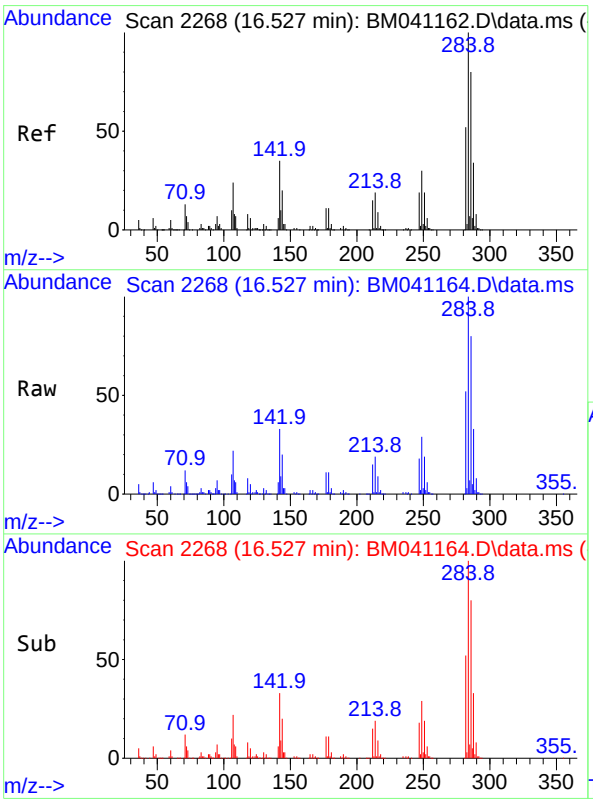
Ion	Ratio	Lower	Upper
248	100		
250	98.4	78.0	117.0
141	73.5	53.8	80.8



Instrument :
BNA_M
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

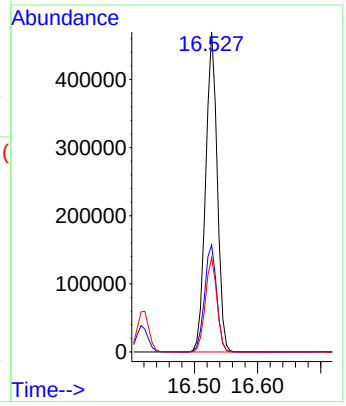
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

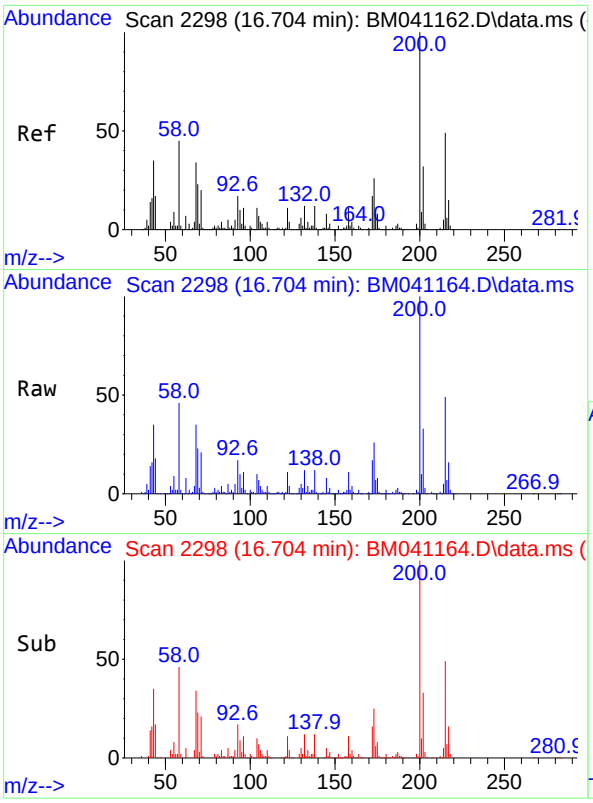


#68
Hexachlorobenzene
Concen: 62.369 ng
RT: 16.527 min Scan# 2268
Delta R.T. -0.000 min
Lab File: BM041164.D
Acq: 28 Jul 2023 14:00

Tgt Ion:284 Resp: 597328

Ion	Ratio	Lower	Upper
284	100		
142	33.5	28.0	42.0
249	29.5	23.7	35.5

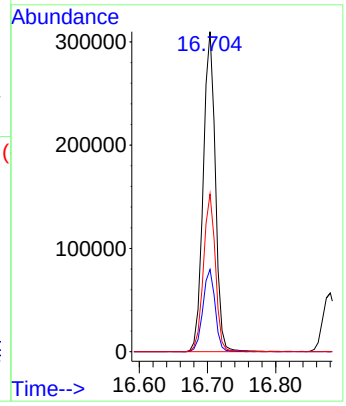




#69
Atrazine
Concen: 59.874 ng
RT: 16.704 min Scan# 2
Delta R.T. -0.000 min
Lab File: BM041164.D
Acq: 28 Jul 2023 14:00

Tgt Ion:200 Resp: 38415

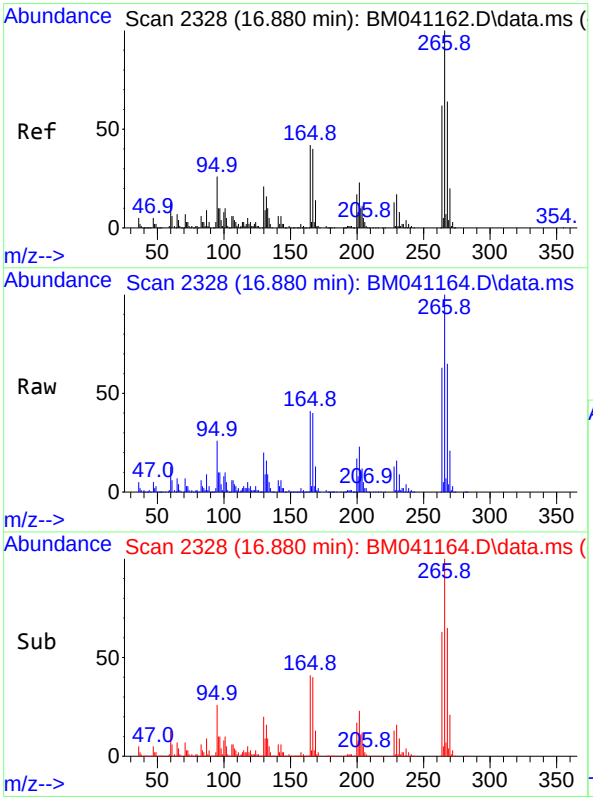
Ion	Ratio	Lower	Upper
200	100		
173	25.7	5.6	45.6
215	49.3	28.5	68.5



Instrument :
BNA_M
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

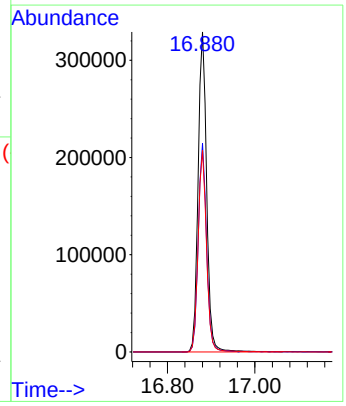
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

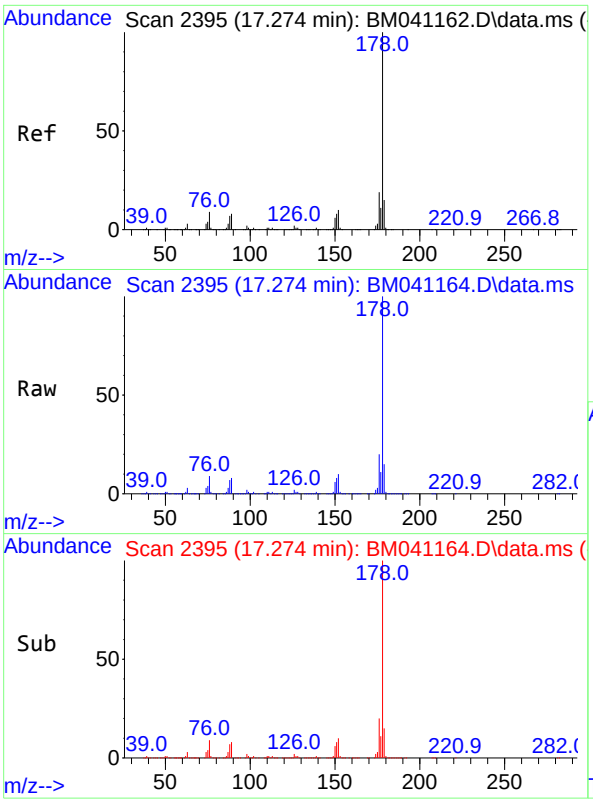


#70
Pentachlorophenol
Concen: 67.561 ng
RT: 16.880 min Scan# 2328
Delta R.T. -0.000 min
Lab File: BM041164.D
Acq: 28 Jul 2023 14:00

Tgt Ion:266 Resp: 448058

Ion	Ratio	Lower	Upper
266	100		
268	65.2	51.0	76.6
264	62.9	49.4	74.2

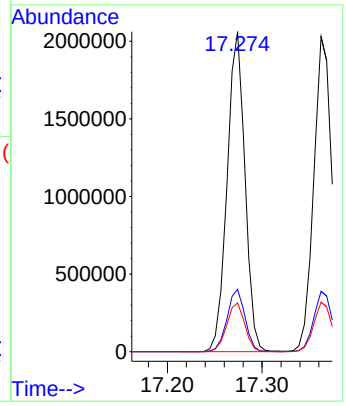




#71
Phenanthrene
Concen: 61.846 ng
RT: 17.274 min Scan# 2
Delta R.T. -0.000 min
Lab File: BM041164.D
Acq: 28 Jul 2023 14:00

Tgt Ion:178 Resp: 269932

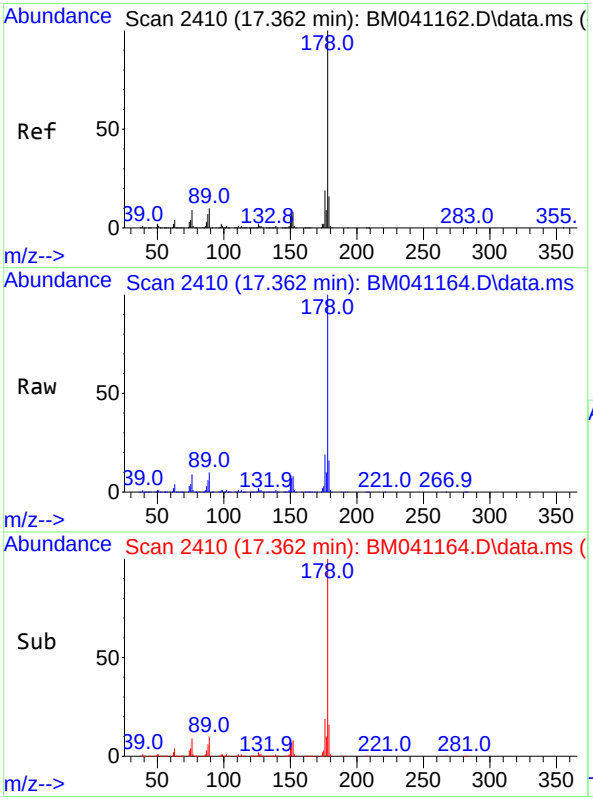
Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.6	23.4
179	15.3	12.1	18.1



Instrument :
BNA_M
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

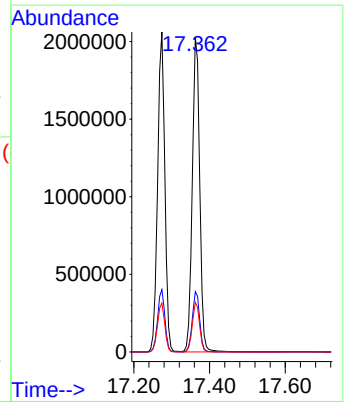
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

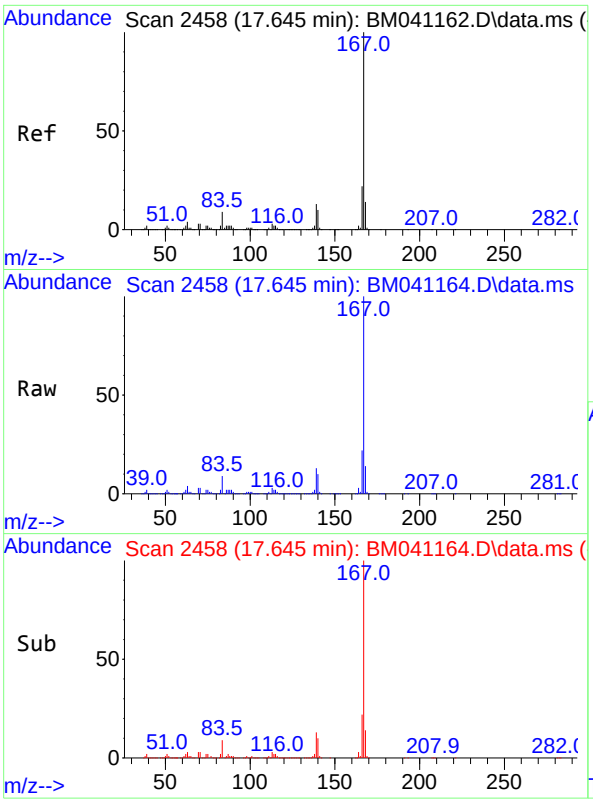


#72
Anthracene
Concen: 63.785 ng
RT: 17.362 min Scan# 2410
Delta R.T. -0.000 min
Lab File: BM041164.D
Acq: 28 Jul 2023 14:00

Tgt Ion:178 Resp: 2753374

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.2	22.8
179	15.8	12.4	18.6

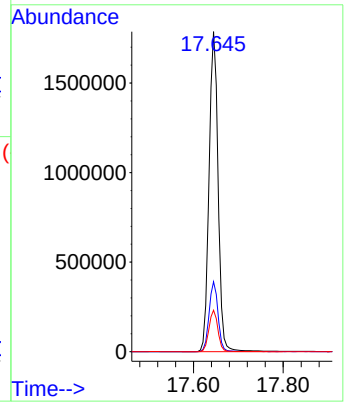




#73
Carbazole
Concen: 63.970 ng
RT: 17.645 min Scan# 24
Delta R.T. -0.000 min
Lab File: BM041164.D
Acq: 28 Jul 2023 14:00

Tgt Ion:167 Resp: 249930

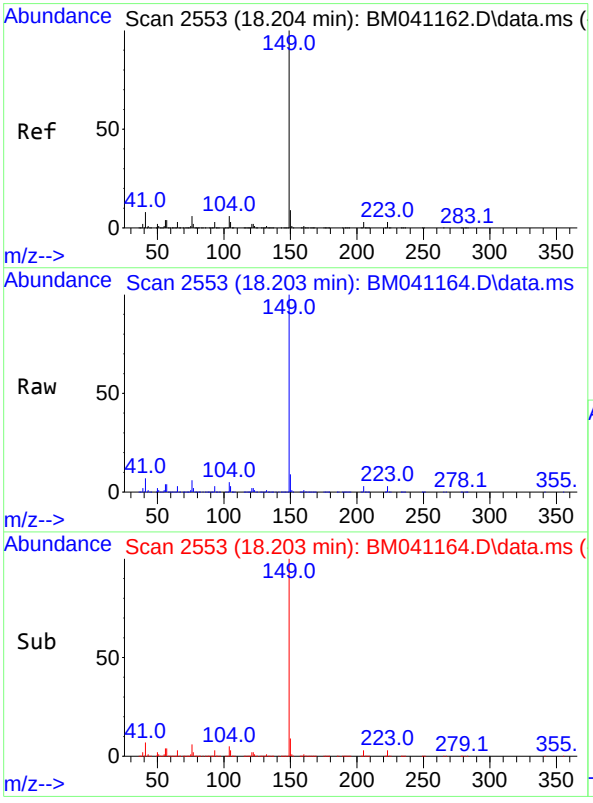
Ion	Ratio	Lower	Upper
167	100		
166	21.9	17.3	25.9
139	12.9	10.3	15.5



Instrument :
BNA_M
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

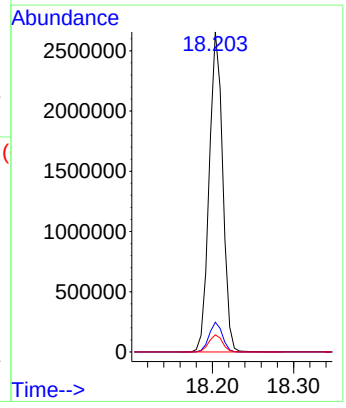
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

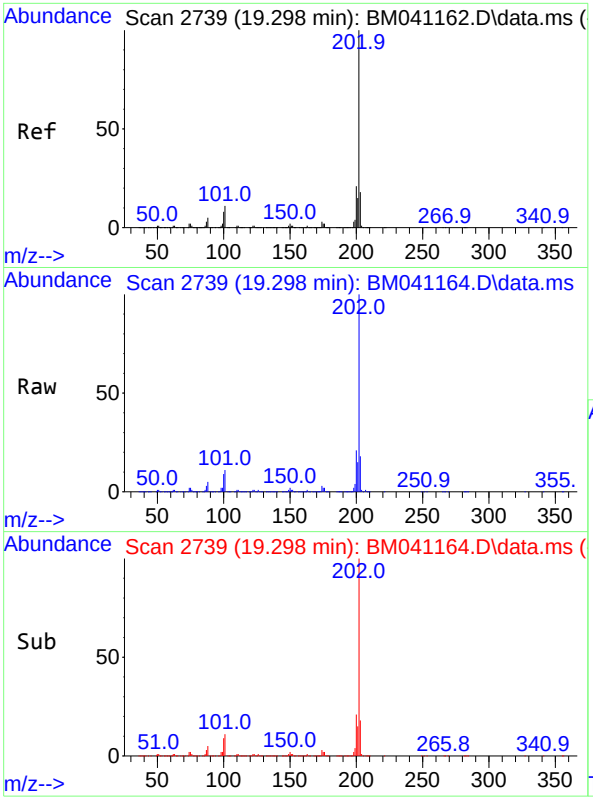


#74
Di-n-butylphthalate
Concen: 69.246 ng
RT: 18.203 min Scan# 2553
Delta R.T. -0.000 min
Lab File: BM041164.D
Acq: 28 Jul 2023 14:00

Tgt Ion:149 Resp: 3057189

Ion	Ratio	Lower	Upper
149	100		
150	9.3	7.3	10.9
104	5.4	4.5	6.7

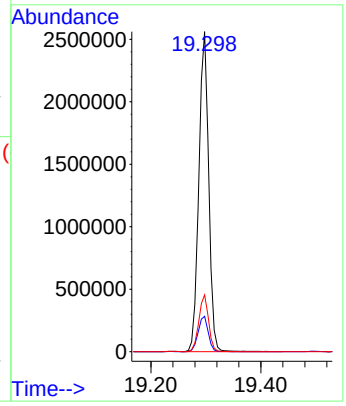




#75
Fluoranthene
Concen: 64.777 ng
RT: 19.298 min Scan# 2
Delta R.T. -0.000 min
Lab File: BM041164.D
Acq: 28 Jul 2023 14:00

Tgt Ion:202 Resp: 317635

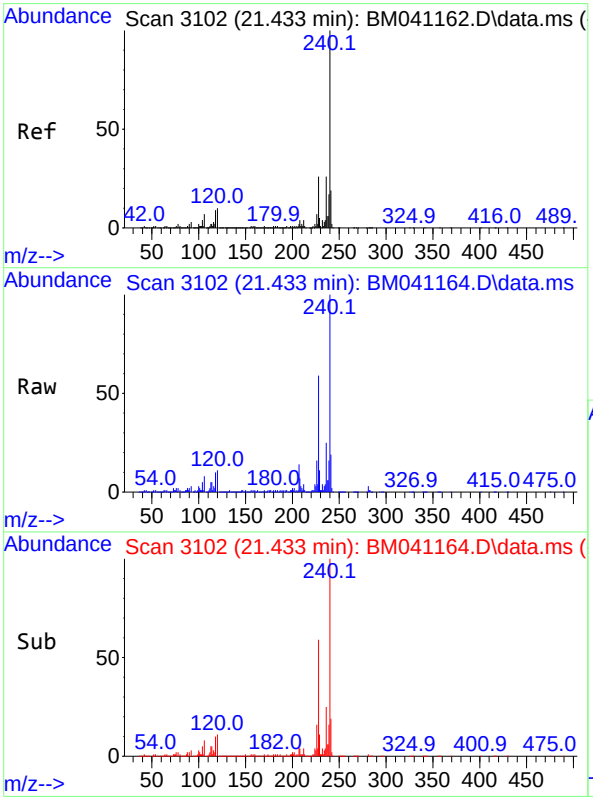
Ion	Ratio	Lower	Upper
202	100		
101	11.1	0.0	30.8
203	17.8	0.0	37.6



Instrument :
BNA_M
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

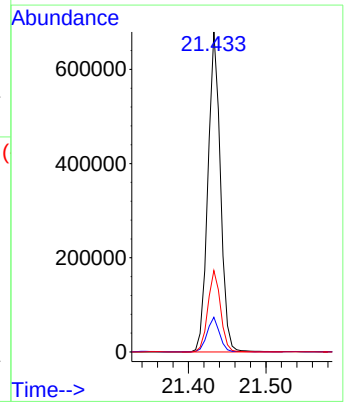
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

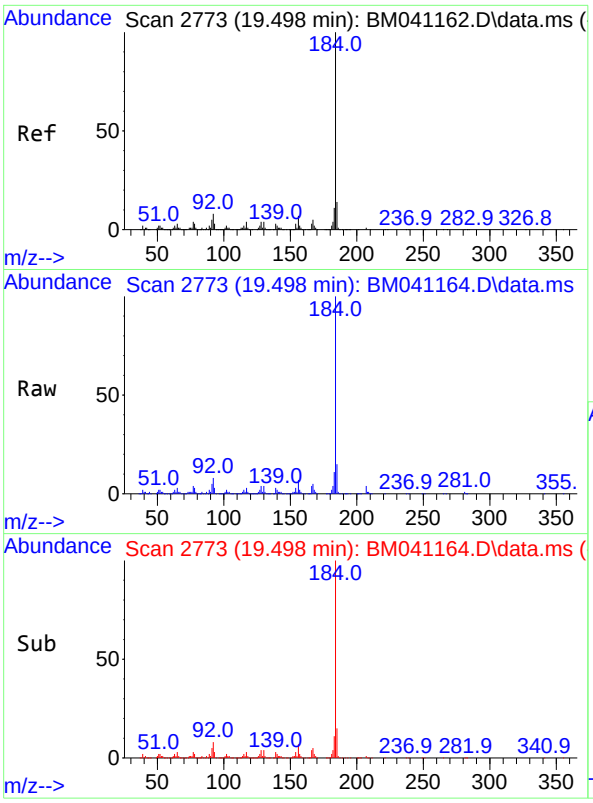


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.433 min Scan# 3102
Delta R.T. -0.000 min
Lab File: BM041164.D
Acq: 28 Jul 2023 14:00

Tgt Ion:240 Resp: 761496

Ion	Ratio	Lower	Upper
240	100		
120	10.8	8.3	12.5
236	25.5	20.6	30.8

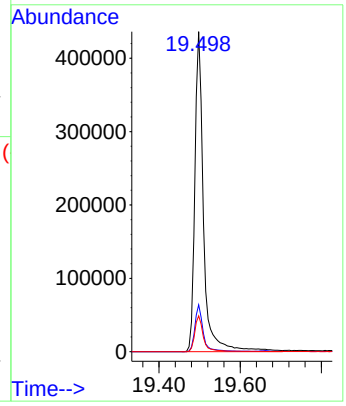




#77
Benzidine
Concen: 62.547 ng
RT: 19.498 min Scan# 2
Delta R.T. -0.000 min
Lab File: BM041164.D
Acq: 28 Jul 2023 14:00

Tgt Ion:184 Resp: 65216

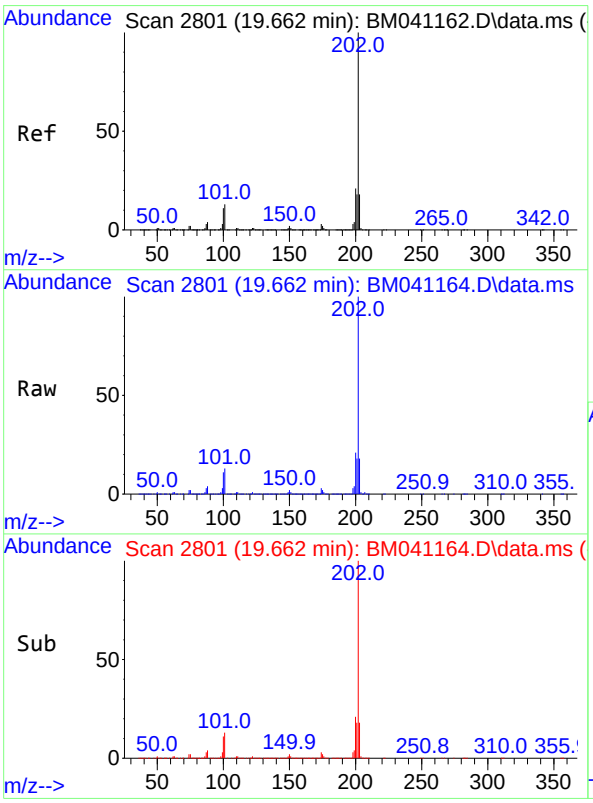
Ion	Ratio	Lower	Upper
184	100		
185	14.7	11.4	17.0
183	11.2	9.2	13.8



Instrument :
BNA_M
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

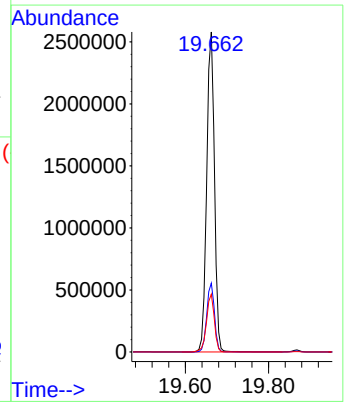
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

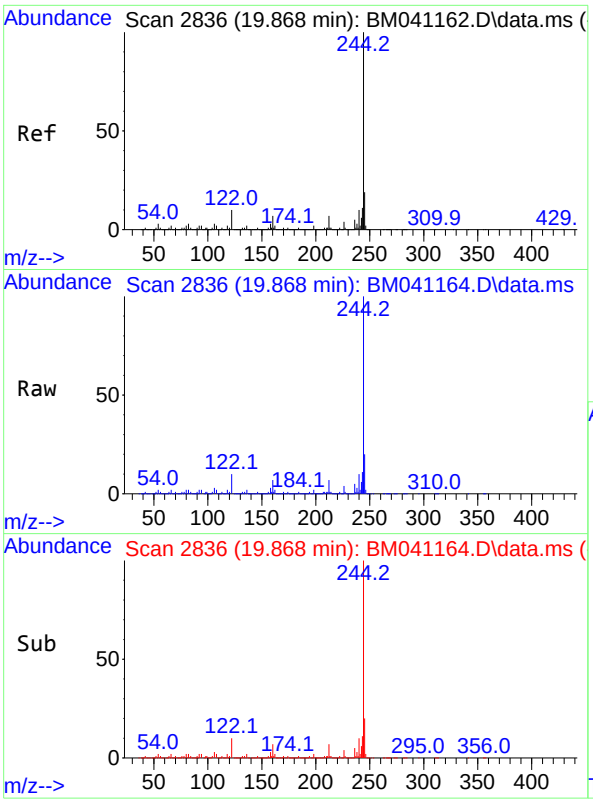


#78
Pyrene
Concen: 62.556 ng
RT: 19.662 min Scan# 2801
Delta R.T. -0.000 min
Lab File: BM041164.D
Acq: 28 Jul 2023 14:00

Tgt Ion:202 Resp: 3331239

Ion	Ratio	Lower	Upper
202	100		
200	21.5	16.9	25.3
203	18.1	14.1	21.1

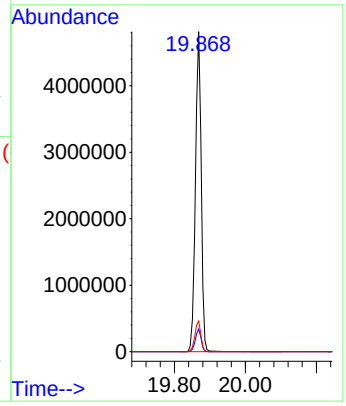




#79
Terphenyl-d14
Concen: 128.766 ng
RT: 19.868 min Scan# 2
Delta R.T. -0.000 min
Lab File: BM041164.D
Acq: 28 Jul 2023 14:00

Tgt Ion:244 Resp: 542324

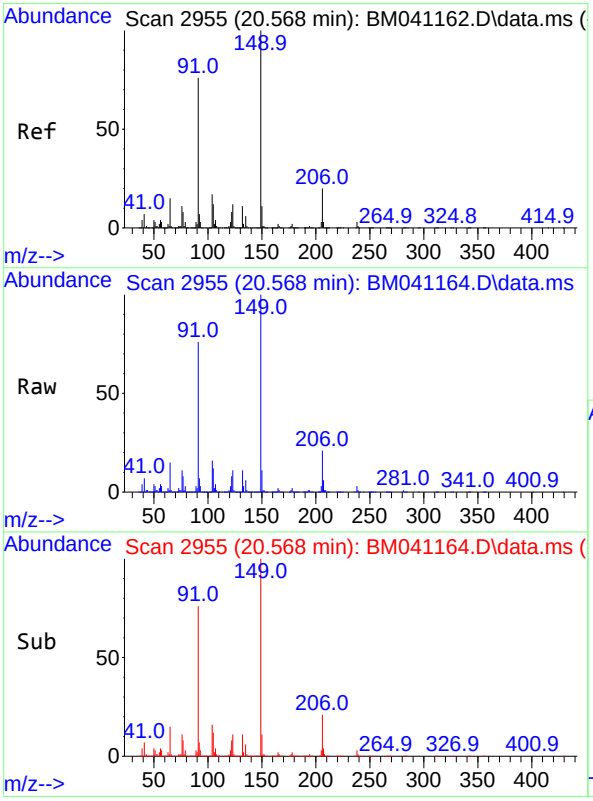
Ion	Ratio	Lower	Upper
244	100		
212	7.1	5.4	8.2
122	9.6	7.8	11.6



Instrument :
BNA_M
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

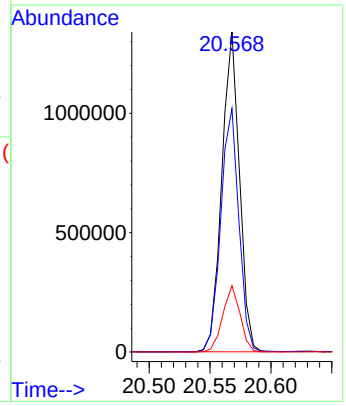
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

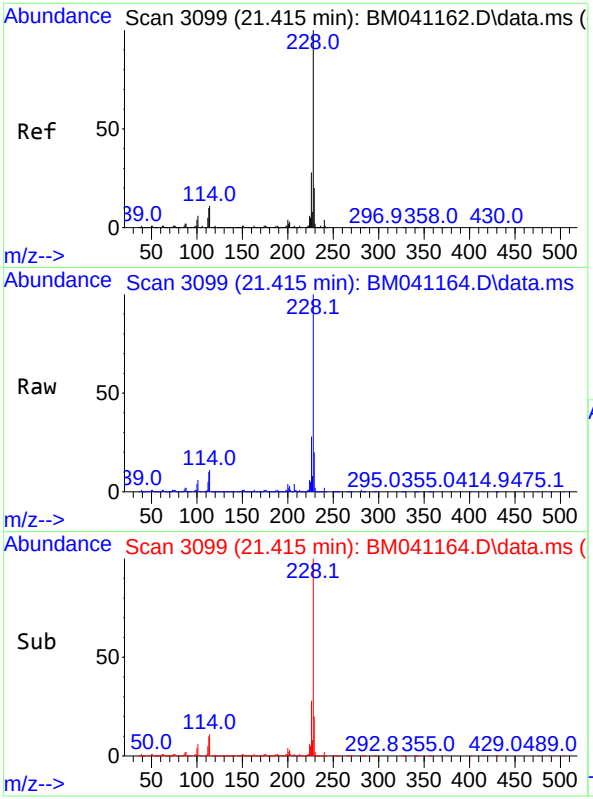


#80
Butylbenzylphthalate
Concen: 69.658 ng
RT: 20.568 min Scan# 2955
Delta R.T. 0.000 min
Lab File: BM041164.D
Acq: 28 Jul 2023 14:00

Tgt Ion:149 Resp: 1354634

Ion	Ratio	Lower	Upper
149	100		
91	76.1	60.8	91.2
206	20.7	16.4	24.6

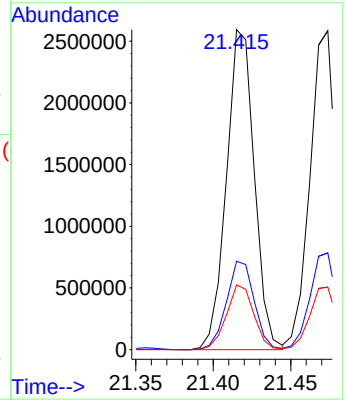




#81
Benzo(a)anthracene
Concen: 62.861 ng
RT: 21.415 min Scan# 3
Delta R.T. -0.000 min
Lab File: BM041164.D
Acq: 28 Jul 2023 14:00

Tgt Ion:228 Resp: 324511

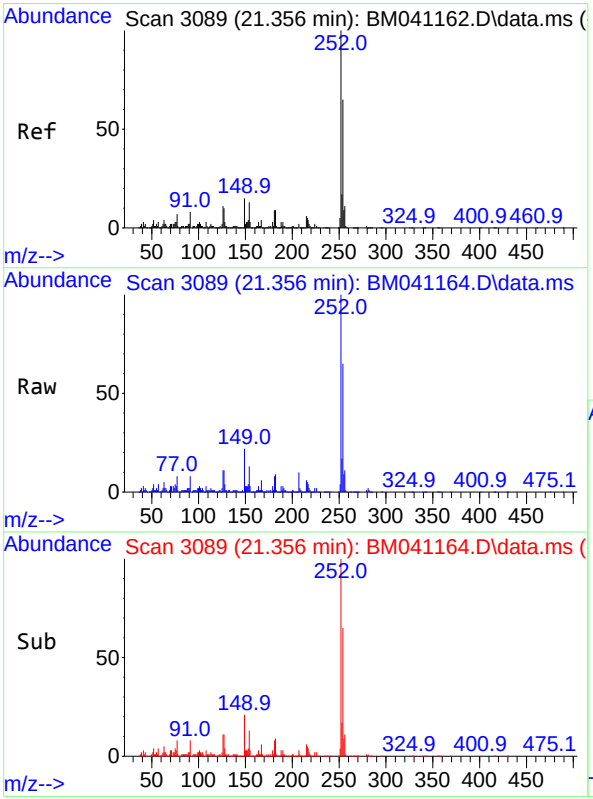
Ion	Ratio	Lower	Upper
228	100		
226	27.6	22.4	33.6
229	20.3	15.8	23.8



Instrument :
BNA_M
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

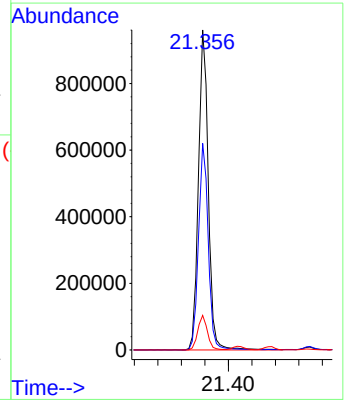
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

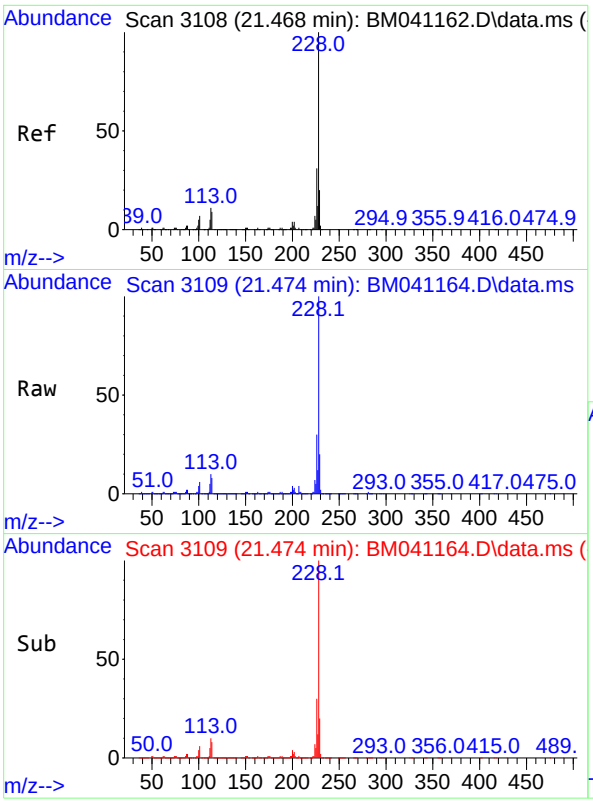


#82
3,3'-Dichlorobenzidine
Concen: 66.206 ng
RT: 21.356 min Scan# 3089
Delta R.T. -0.000 min
Lab File: BM041164.D
Acq: 28 Jul 2023 14:00

Tgt Ion:252 Resp: 1115253

Ion	Ratio	Lower	Upper
252	100		
254	64.6	51.8	77.6
126	10.8	8.6	13.0

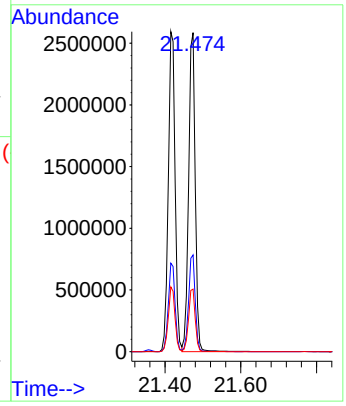




#83
Chrysene
Concen: 62.468 ng
RT: 21.474 min Scan# 3
Delta R.T. 0.006 min
Lab File: BM041164.D
Acq: 28 Jul 2023 14:00

Tgt Ion:228 Resp: 311917

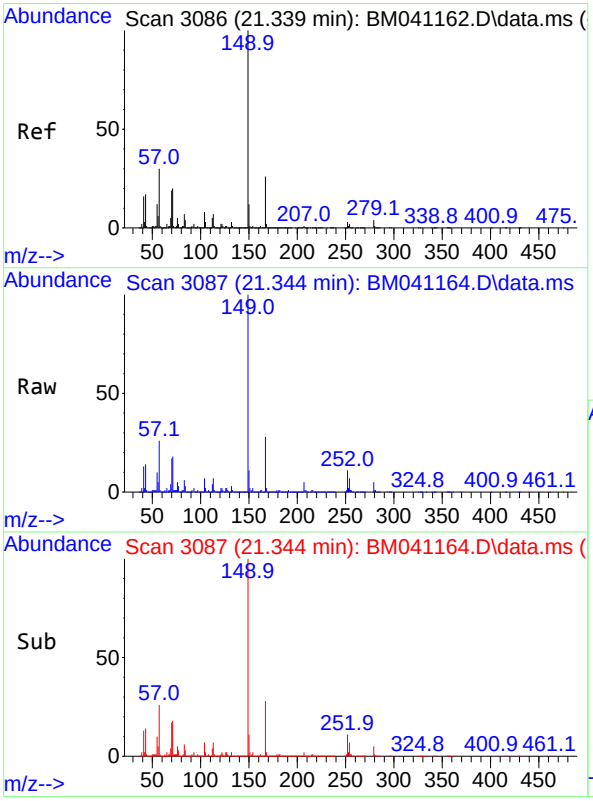
Ion	Ratio	Lower	Upper
228	100		
226	30.3	24.5	36.7
229	19.6	15.8	23.8



Instrument :
BNA_M
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

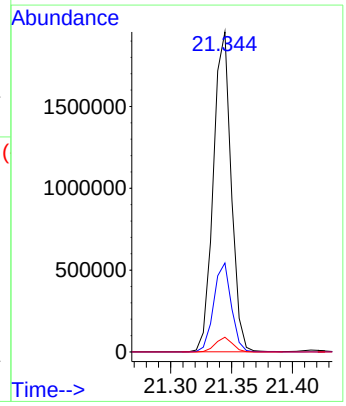
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

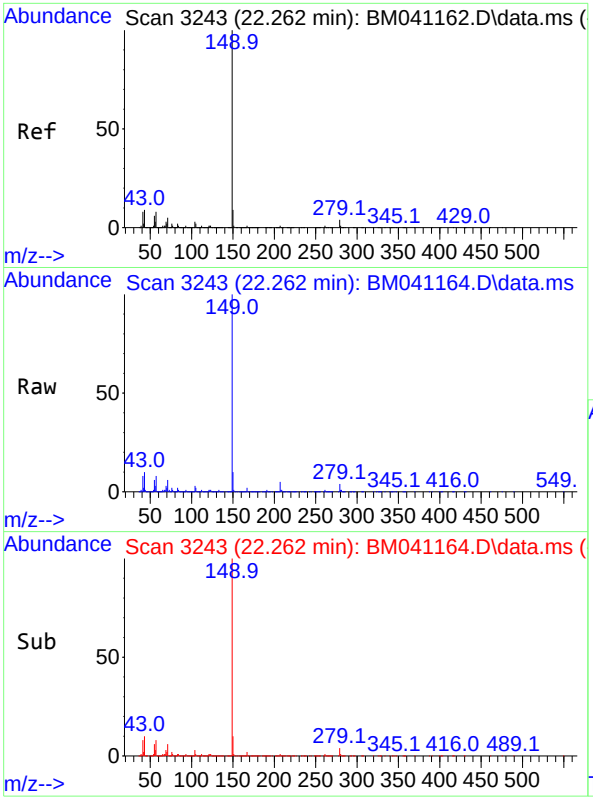


#84
Bis(2-ethylhexyl)phthalate
Concen: 63.662 ng
RT: 21.344 min Scan# 3087
Delta R.T. 0.005 min
Lab File: BM041164.D
Acq: 28 Jul 2023 14:00

Tgt Ion:149 Resp: 1993079

Ion	Ratio	Lower	Upper
149	100		
167	27.8	21.0	31.6
279	4.6	3.1	4.7

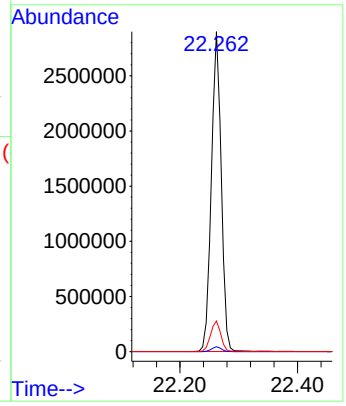




#85
Di-n-octyl phthalate
Concen: 68.571 ng
RT: 22.262 min Scan# 3
Delta R.T. 0.000 min
Lab File: BM041164.D
Acq: 28 Jul 2023 14:00

Tgt Ion:149 Resp: 337019

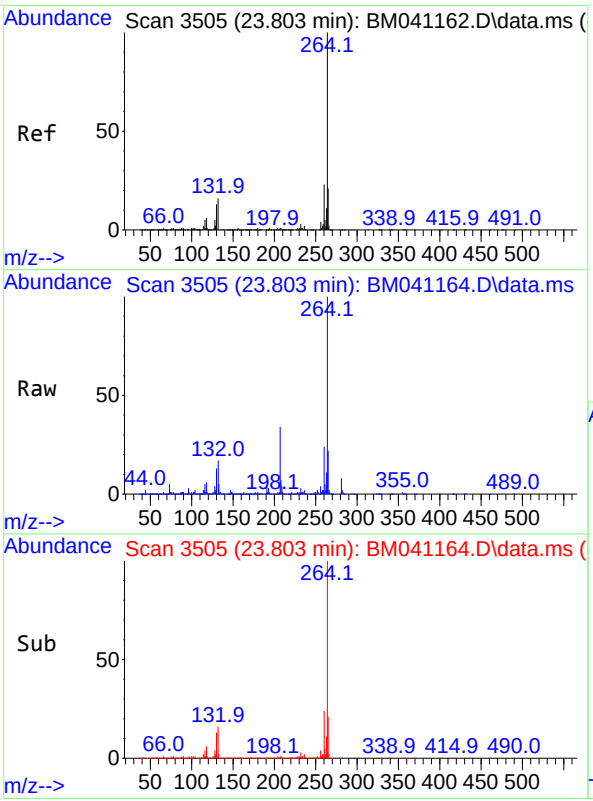
Ion	Ratio	Lower	Upper
149	100		
167	1.5	1.2	1.8
43	10.1	8.3	12.5



Instrument :
BNA_M
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

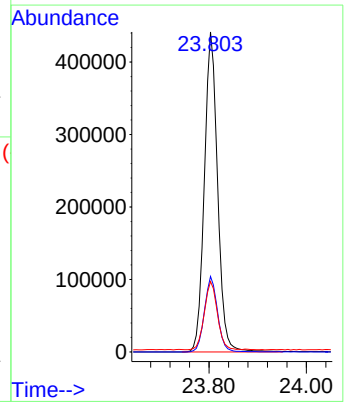
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

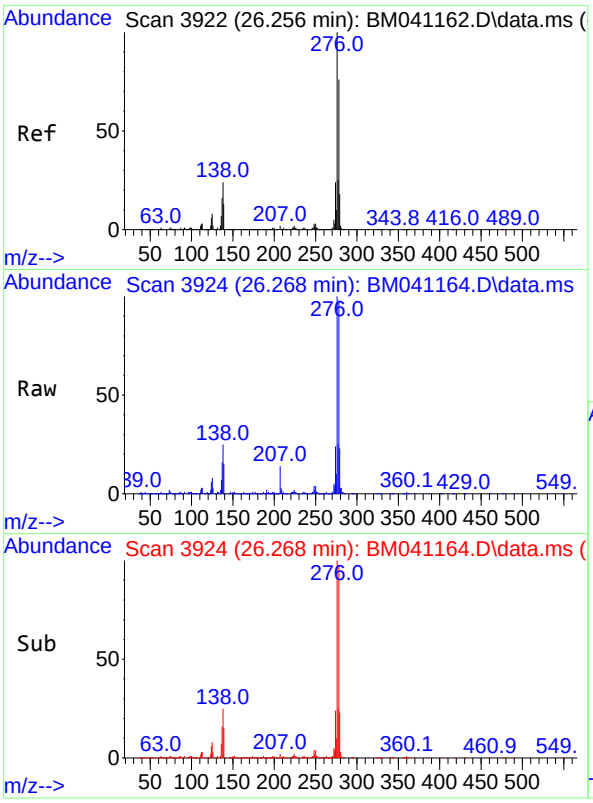


#86
Perylene-d12
Concen: 20.000 ng
RT: 23.803 min Scan# 3505
Delta R.T. -0.000 min
Lab File: BM041164.D
Acq: 28 Jul 2023 14:00

Tgt Ion:264 Resp: 833196

Ion	Ratio	Lower	Upper
264	100		
260	23.6	18.5	27.7
265	22.0	17.4	26.0

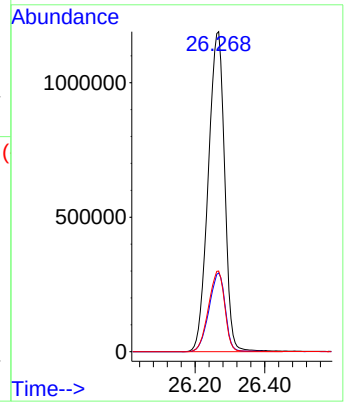




#87
Indeno(1,2,3-cd)pyrene
Concen: 63.604 ng
RT: 26.268 min Scan# 3
Delta R.T. 0.012 min
Lab File: BM041164.D
Acq: 28 Jul 2023 14:00

Tgt Ion:276 Resp: 389620

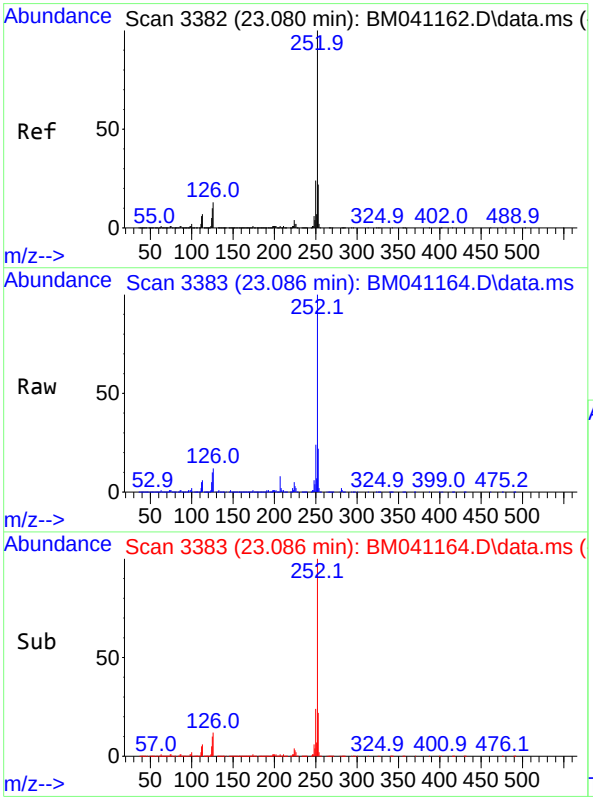
Ion	Ratio	Lower	Upper
276	100		
138	24.3	20.0	30.0
277	25.1	20.1	30.1



Instrument :
BNA_M
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

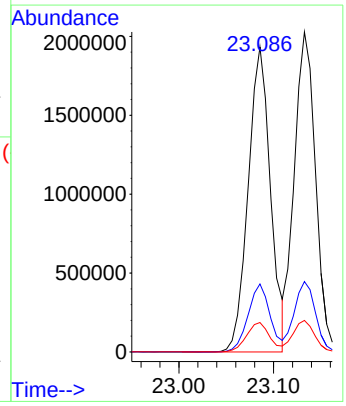
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

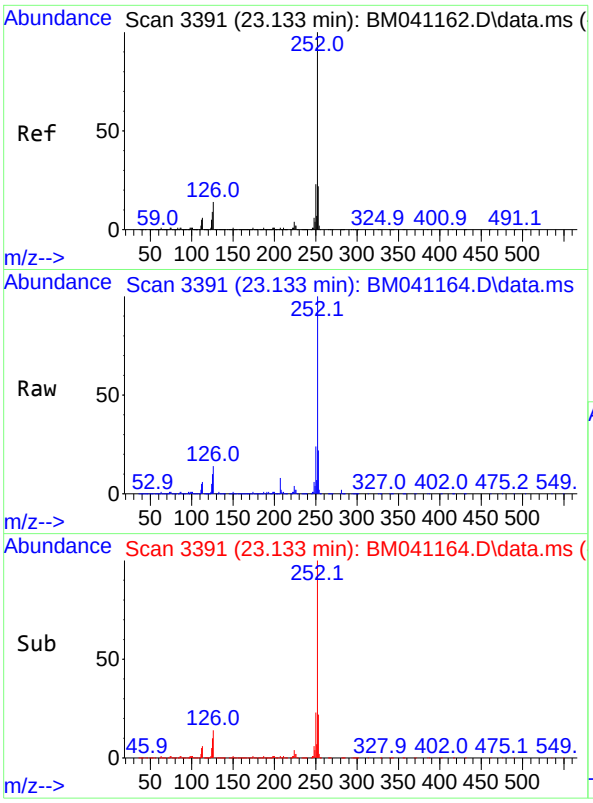


#88
Benzo(b)fluoranthene
Concen: 64.042 ng
RT: 23.086 min Scan# 3383
Delta R.T. 0.006 min
Lab File: BM041164.D
Acq: 28 Jul 2023 14:00

Tgt Ion:252 Resp: 3169876

Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.7	26.5
125	9.7	8.2	12.4

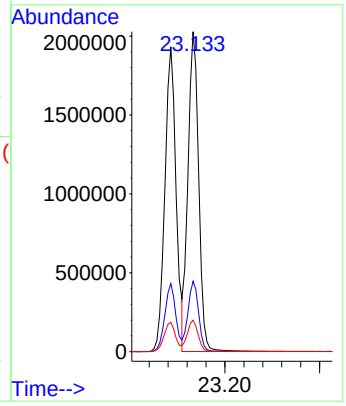




#89
Benzo(k)fluoranthene
Concen: 62.818 ng
RT: 23.133 min Scan# 3
Delta R.T. -0.000 min
Lab File: BM041164.D
Acq: 28 Jul 2023 14:00

Tgt Ion:252 Resp: 318054

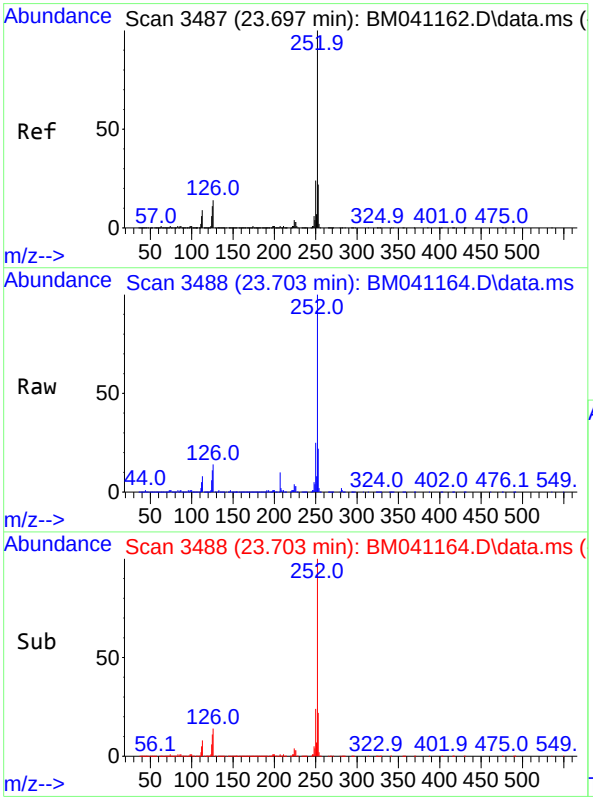
Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.4	26.0
125	9.9	7.6	11.4



Instrument :
BNA_M
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

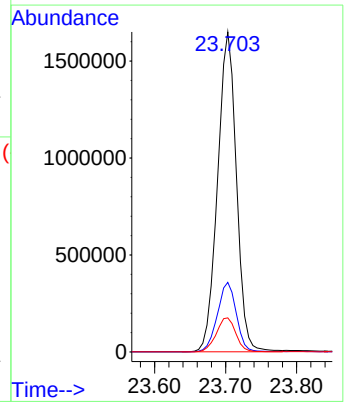
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

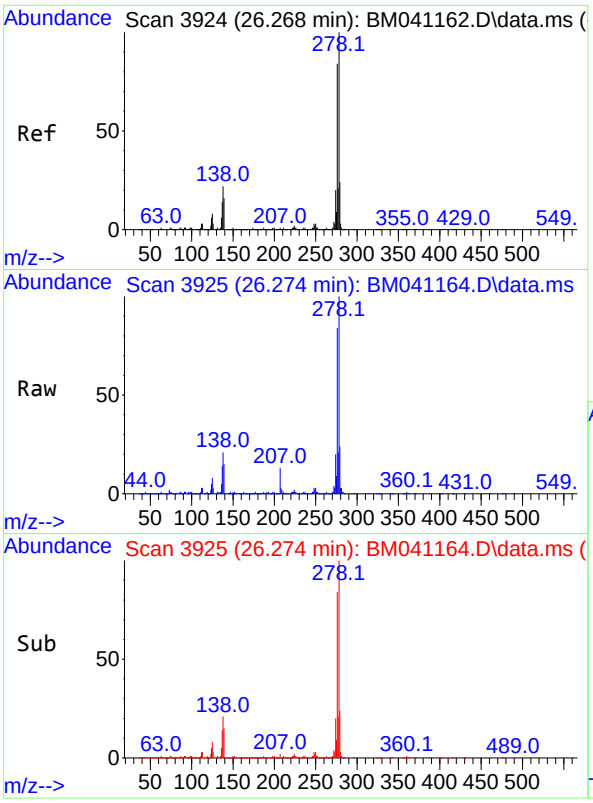


#90
Benzo(a)pyrene
Concen: 63.856 ng
RT: 23.703 min Scan# 3488
Delta R.T. 0.006 min
Lab File: BM041164.D
Acq: 28 Jul 2023 14:00

Tgt Ion:252 Resp: 3036973

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.3	25.9
125	10.6	9.0	13.4

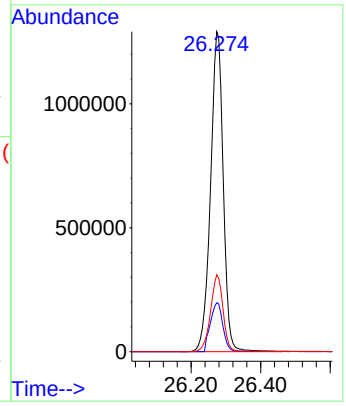




#91
Dibenzo(a,h)anthracene
Concen: 64.167 ng
RT: 26.274 min Scan# 3
Delta R.T. 0.006 min
Lab File: BM041164.D
Acq: 28 Jul 2023 14:00

Tgt Ion:278 Resp: 327853

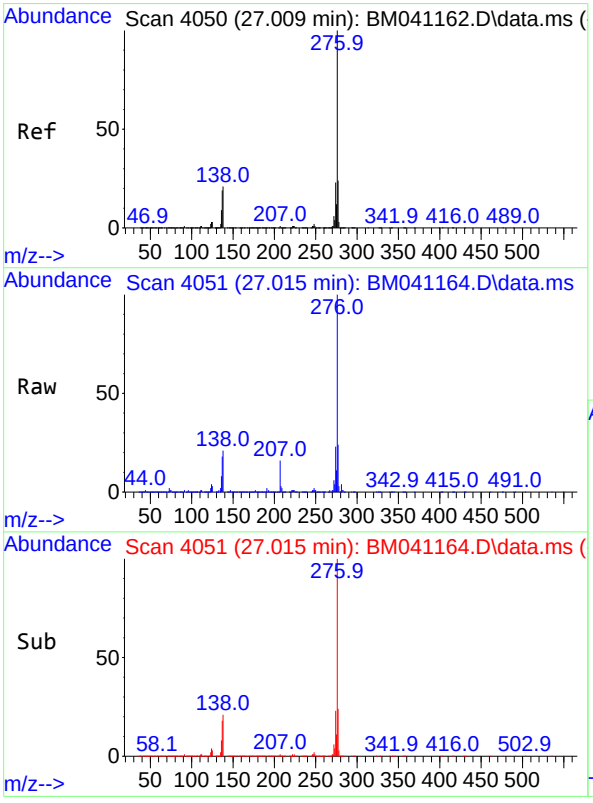
Ion	Ratio	Lower	Upper
278	100		
139	15.3	12.7	19.1
279	24.1	19.1	28.7



Instrument :
BNA_M
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

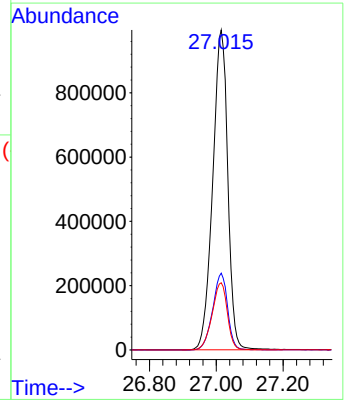
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023



#92
Benzo(g,h,i)perylene
Concen: 62.328 ng
RT: 27.015 min Scan# 4051
Delta R.T. 0.006 min
Lab File: BM041164.D
Acq: 28 Jul 2023 14:00

Tgt Ion:276 Resp: 3116058

Ion	Ratio	Lower	Upper
276	100		
277	24.0	19.1	28.7
138	21.0	17.1	25.7



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM072823\
Data File : BM041165.D
Acq On : 28 Jul 2023 14:38
Operator : MA/JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 29 00:13:25 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 28 23:54:24 2023
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.804	152	211979	20.000	ng		0.00
21) Naphthalene-d8	10.616	136	724308	20.000	ng		0.00
39) Acenaphthene-d10	14.474	164	384767	20.000	ng		0.00
64) Phenanthrene-d10	17.227	188	774861	20.000	ng		0.00
76) Chrysene-d12	21.433	240	753614	20.000	ng		0.00
86) Perylene-d12	23.803	264	828220	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.375	112	2159982	152.292	ng		0.00
7) Phenol-d6	6.993	99	2799500	152.273	ng		0.01
23) Nitrobenzene-d5	8.987	82	2519357	161.757	ng		0.00
42) 2,4,6-Tribromophenol	15.974	330	938843	172.508	ng		0.00
45) 2-Fluorobiphenyl	13.092	172	4915960	161.398	ng		0.00
79) Terphenyl-d14	19.868	244	6719972	161.224	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.269	88	443993	73.177	ng		99
3) Pyridine	3.675	79	1244091m	78.228	ng		
4) n-Nitrosodimethylamine	3.593	42	558246	75.660	ng		93
6) Aniline	7.146	93	1641113	76.275	ng		100
8) 2-Chlorophenol	7.375	128	1035410	74.780	ng		99
10) Phenol	7.016	94	1344968	75.745	ng		99
11) bis(2-Chloroethyl)ether	7.246	93	1081650	75.254	ng		99
12) 1,3-Dichlorobenzene	7.693	146	1118549	74.214	ng		100
13) 1,4-Dichlorobenzene	7.840	146	1125580	74.301	ng		100
14) 1,2-Dichlorobenzene	8.157	146	1067555	73.496	ng		99
15) Benzyl Alcohol	8.063	79	924350	79.615	ng		99
16) 2,2'-oxybis(1-Chloropr...	8.345	45	1394876	72.836	ng		99
17) 2-Methylphenol	8.263	107	919215	75.773	ng		100
18) Hexachloroethane	8.881	117	427995	75.888	ng		96
19) n-Nitroso-di-n-propyla...	8.634	70	847235	75.871	ng		99
20) 3+4-Methylphenols	8.598	107	1247084	76.885	ng		100
22) Acetophenone	8.645	105	1539380	80.248	ng	#	99
24) Nitrobenzene	9.028	77	1262582	80.161	ng		99
25) Isophorone	9.557	82	2180367	82.468	ng		100
26) 2-Nitrophenol	9.734	139	545313	88.564	ng		98
27) 2,4-Dimethylphenol	9.798	122	891494	82.280	ng		99
28) bis(2-Chloroethoxy)met...	10.039	93	1319673	79.684	ng		99
29) 2,4-Dichlorophenol	10.269	162	908051	83.107	ng		98
30) 1,2,4-Trichlorobenzene	10.481	180	978817	81.082	ng		99
31) Naphthalene	10.669	128	3088679	78.582	ng		100
32) Benzoic acid	9.992	122	701725	80.534	ng		98
33) 4-Chloroaniline	10.792	127	1287860	81.989	ng		99
34) Hexachlorobutadiene	10.939	225	591556	81.477	ng		98
35) Caprolactam	11.622	113	270480	85.574	ng		96
36) 4-Chloro-3-methylphenol	11.928	107	943921	82.078	ng		98
37) 2-Methylnaphthalene	12.286	142	2126303	80.242	ng		99
38) 1-Methylnaphthalene	12.504	142	1976183	79.681	ng		100
40) 1,2,4,5-Tetrachloroben...	12.651	216	1031727	82.579	ng		100
41) Hexachlorocyclopentadiene	12.622	237	608867	92.116	ng		99
43) 2,4,6-Trichlorophenol	12.904	196	688340	85.959	ng		98
44) 2,4,5-Trichlorophenol	12.975	196	791584	85.406	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM072823\
Data File : BM041165.D
Acq On : 28 Jul 2023 14:38
Operator : MA/JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 29 00:13:25 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 28 23:54:24 2023
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) 1,1'-Biphenyl	13.304	154	2507883	80.400	ng		100
47) 2-Chloronaphthalene	13.345	162	1886380	80.993	ng		98
48) 2-Nitroaniline	13.569	65	663650	89.268	ng		99
49) Acenaphthylene	14.198	152	3083195	82.015	ng		100
50) Dimethylphthalate	13.945	163	2336159	80.716	ng		100
51) 2,6-Dinitrotoluene	14.069	165	507874	84.688	ng		98
52) Acenaphthene	14.539	154	1828270	80.729	ng		99
53) 3-Nitroaniline	14.404	138	567013	79.898	ng		97
54) 2,4-Dinitrophenol	14.616	184	325764	80.408	ng		91
55) Dibenzofuran	14.874	168	2947121	79.761	ng		100
56) 4-Nitrophenol	14.716	139	444495	88.935	ng		98
57) 2,4-Dinitrotoluene	14.863	165	698977	79.747	ng		96
58) Fluorene	15.527	166	2370464	81.322	ng		100
59) 2,3,4,6-Tetrachlorophenol	15.104	232	622578	82.952	ng		99
60) Diethylphthalate	15.310	149	2282516	81.550	ng		99
61) 4-Chlorophenyl-phenyle...	15.521	204	1213557	83.081	ng		98
62) 4-Nitroaniline	15.574	138	531758	80.101	ng		99
63) Azobenzene	15.816	77	2522287	82.269	ng		99
65) 4,6-Dinitro-2-methylph...	15.627	198	416955	88.826	ng		96
66) n-Nitrosodiphenylamine	15.745	169	1964075	81.501	ng		99
67) 4-Bromophenyl-phenylether	16.421	248	707967	83.332	ng		100
68) Hexachlorobenzene	16.527	284	773841	81.915	ng		98
69) Atrazine	16.704	200	498659	78.794	ng		100
70) Pentachlorophenol	16.880	266	578942	88.502	ng		99
71) Phenanthrene	17.274	178	3469275	80.584	ng		99
72) Anthracene	17.363	178	3557355	83.547	ng		100
73) Carbazole	17.645	167	3209097	83.271	ng		100
74) Di-n-butylphthalate	18.204	149	3756529	86.261	ng		99
75) Fluoranthene	19.298	202	4064920	84.042	ng		99
77) Benzidine	19.498	184	885865	85.850	ng		99
78) Pyrene	19.662	202	4251930	80.680	ng		99
80) Butylbenzylphthalate	20.568	149	1692656	87.951	ng		99
81) Benzo(a)anthracene	21.421	228	4179223	81.803	ng		99
82) 3,3'-Dichlorobenzidine	21.356	252	1415877	84.931	ng		100
83) Chrysene	21.474	228	3972204	80.384	ng		100
84) Bis(2-ethylhexyl)phtha...	21.345	149	2441281	78.191	ng	#	97
85) Di-n-octyl phthalate	22.262	149	4130026	84.910	ng		99
87) Indeno(1,2,3-cd)pyrene	26.268	276	5121510	84.108	ng		99
88) Benzo(b)fluoranthene	23.086	252	4076838	82.860	ng		99
89) Benzo(k)fluoranthene	23.139	252	4156900	82.595	ng		99
90) Benzo(a)pyrene	23.703	252	3982681	84.244	ng		99
91) Dibenzo(a,h)anthracene	26.280	278	4332052	85.295	ng		98
92) Benzo(g,h,i)perylene	27.021	276	4065727	81.811	ng		99

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

ICAL Form

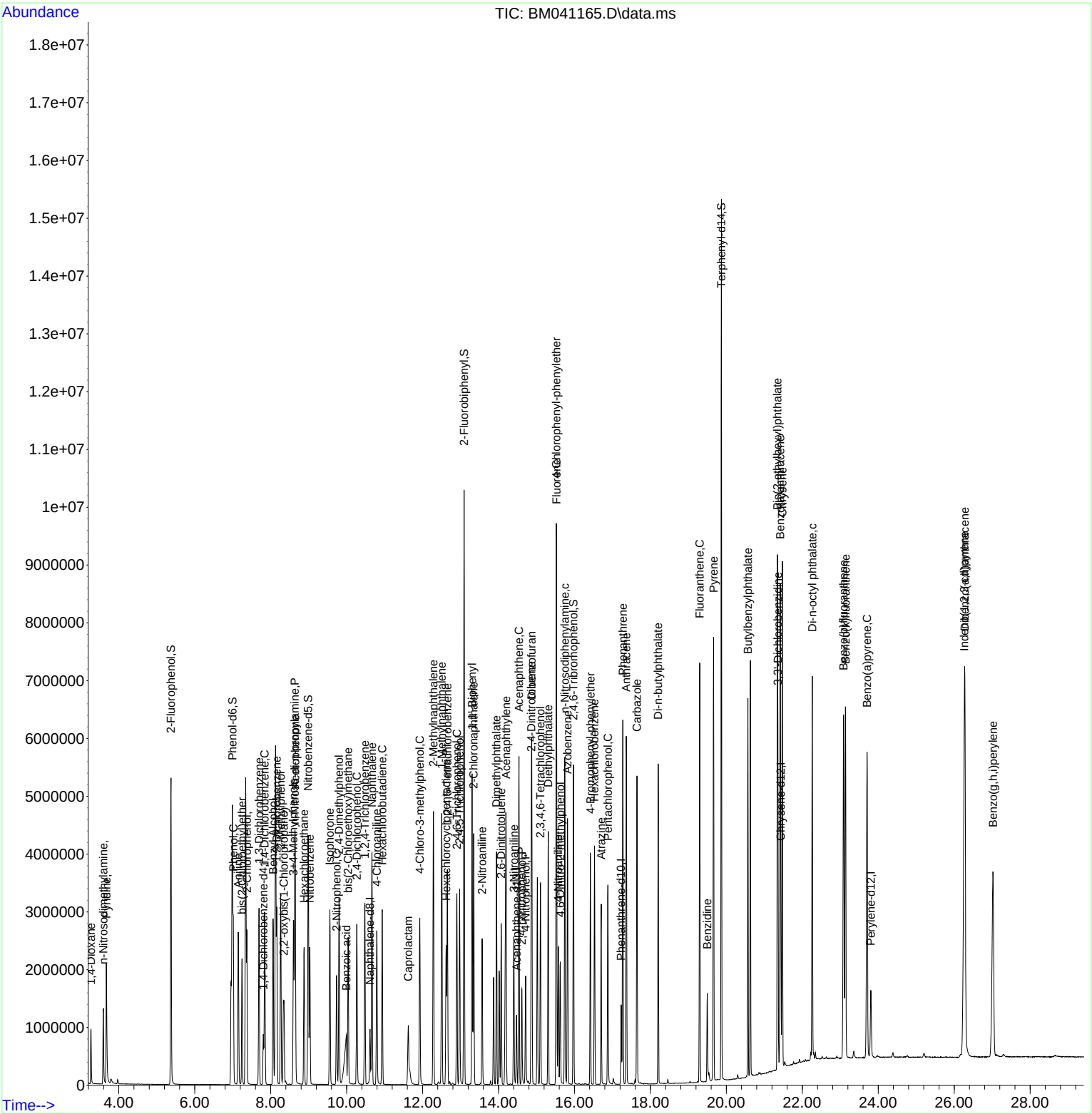
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM072823\
Data File : BM041165.D
Acq On : 28 Jul 2023 14:38
Operator : MA/JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

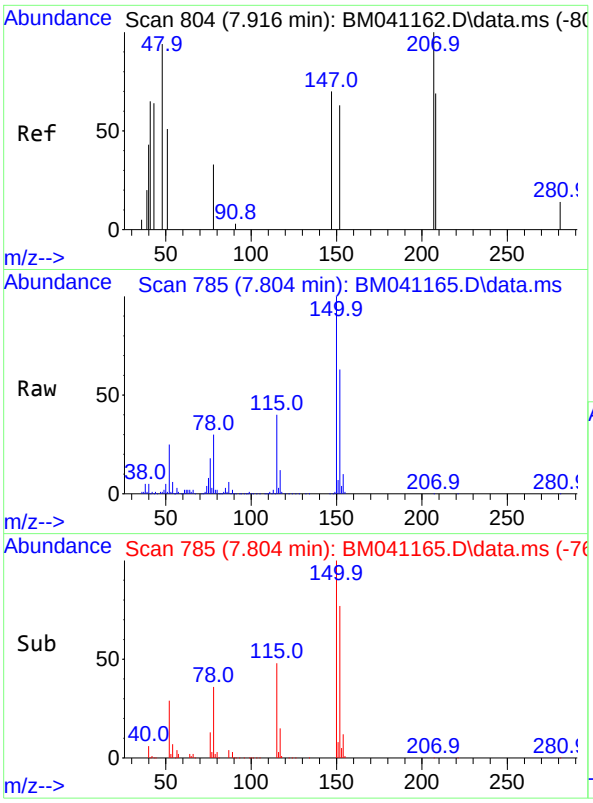
Quant Time: Jul 29 00:13:25 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 28 23:54:24 2023
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

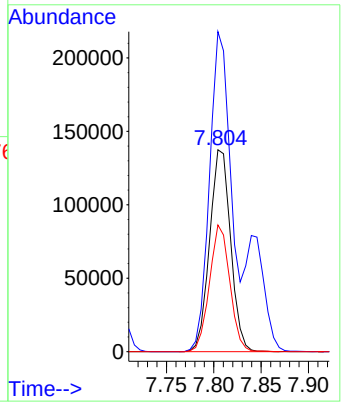




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.804 min Scan# 7
Delta R.T. 0.000 min
Lab File: BM041165.D
Acq: 28 Jul 2023 14:38

Tgt Ion:152 Resp: 21197

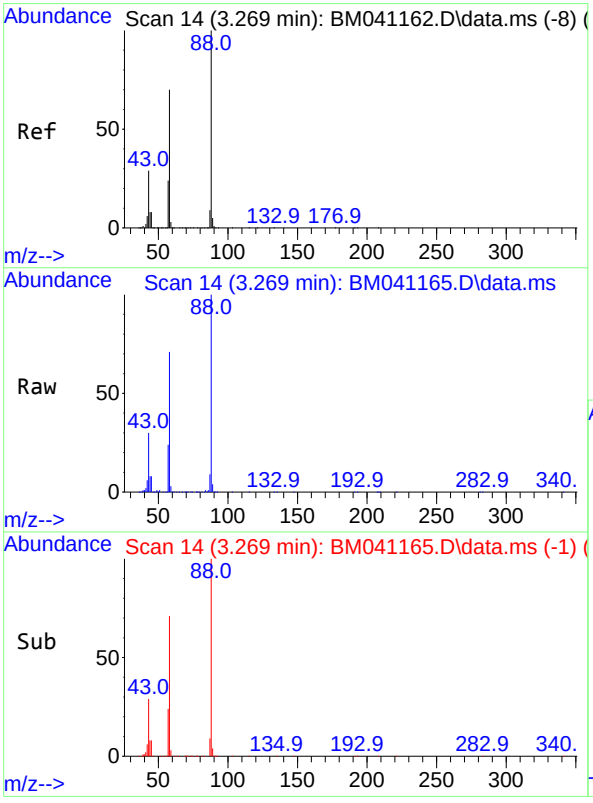
Ion	Ratio	Lower	Upper
152	100		
150	158.4	125.5	188.3
115	62.7	48.0	72.0



Instrument :
BNA_M
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

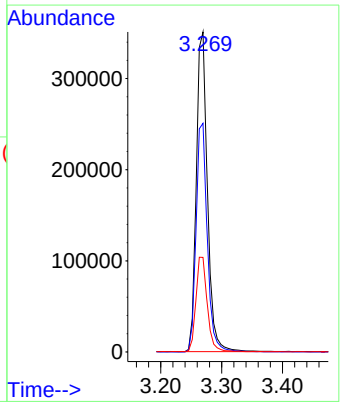
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

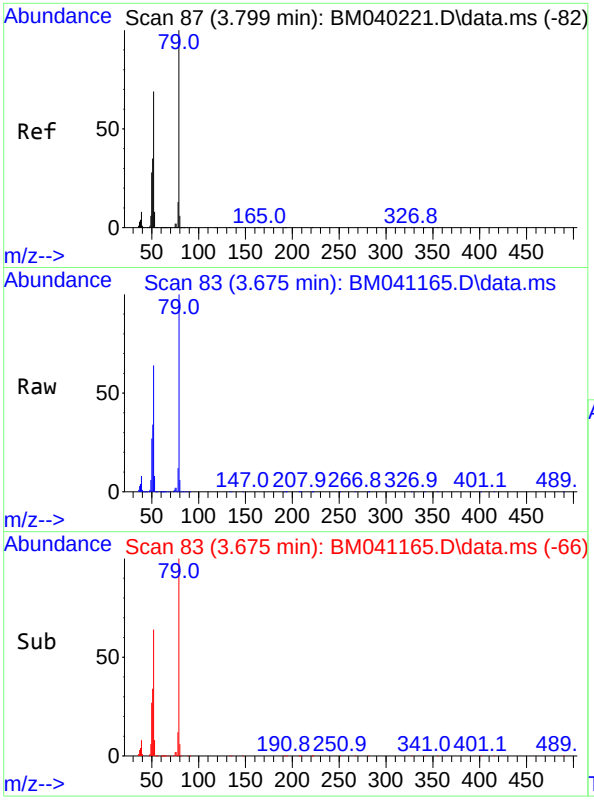


#2
1,4-Dioxane
Concen: 73.177 ng
RT: 3.269 min Scan# 14
Delta R.T. 0.000 min
Lab File: BM041165.D
Acq: 28 Jul 2023 14:38

Tgt Ion: 88 Resp: 443993

Ion	Ratio	Lower	Upper
88	100		
58	72.3	58.2	87.4
43	30.1	24.4	36.6

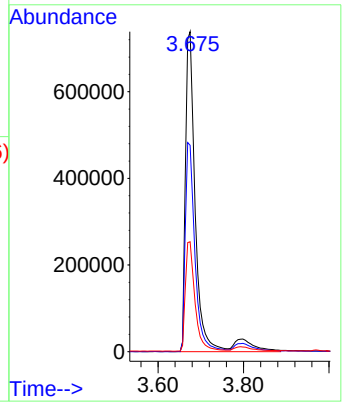




#3
Pyridine
Concen: 78.228 ng m
RT: 3.675 min Scan# 8
Delta R.T. 0.000 min
Lab File: BM041165.D
Acq: 28 Jul 2023 14:38

Tgt Ion: 79 Resp: 124409

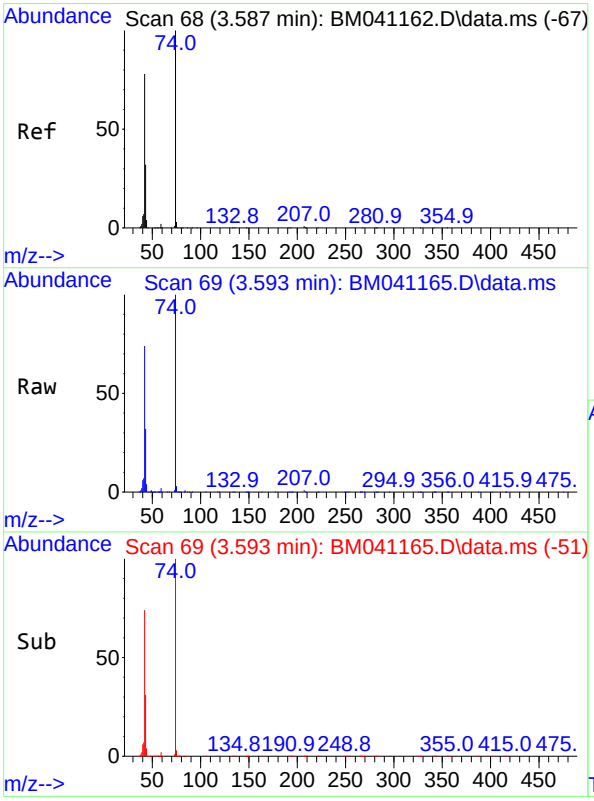
Ion	Ratio	Lower	Upper
79	100		
52	64.5	52.1	78.1
51	34.3	27.5	41.3



Instrument :
BNA_M
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

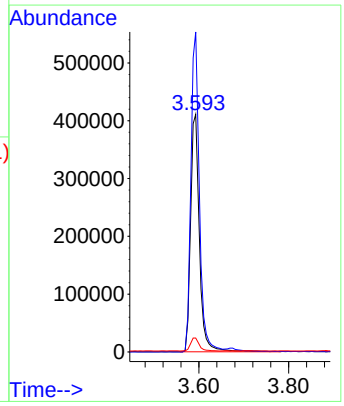
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

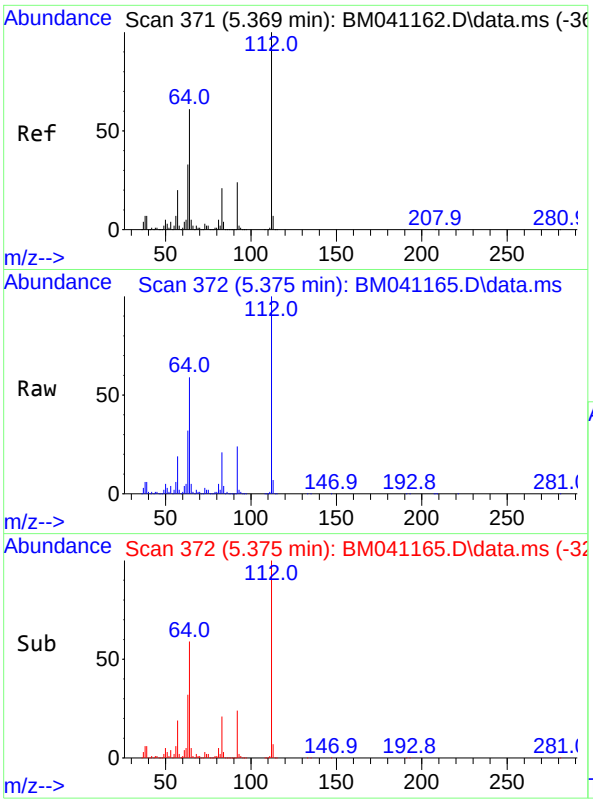


#4
n-Nitrosodimethylamine
Concen: 75.660 ng
RT: 3.593 min Scan# 69
Delta R.T. 0.006 min
Lab File: BM041165.D
Acq: 28 Jul 2023 14:38

Tgt Ion: 42 Resp: 558246

Ion	Ratio	Lower	Upper
42	100		
74	134.7	100.8	151.2
44	5.9	5.0	7.4

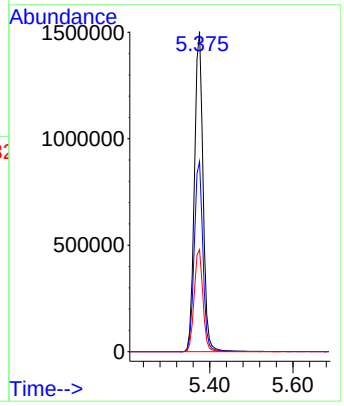




#5
2-Fluorophenol
Concen: 152.292 ng
RT: 5.375 min Scan# 3
Delta R.T. 0.006 min
Lab File: BM041165.D
Acq: 28 Jul 2023 14:38

Tgt Ion:112 Resp: 215998

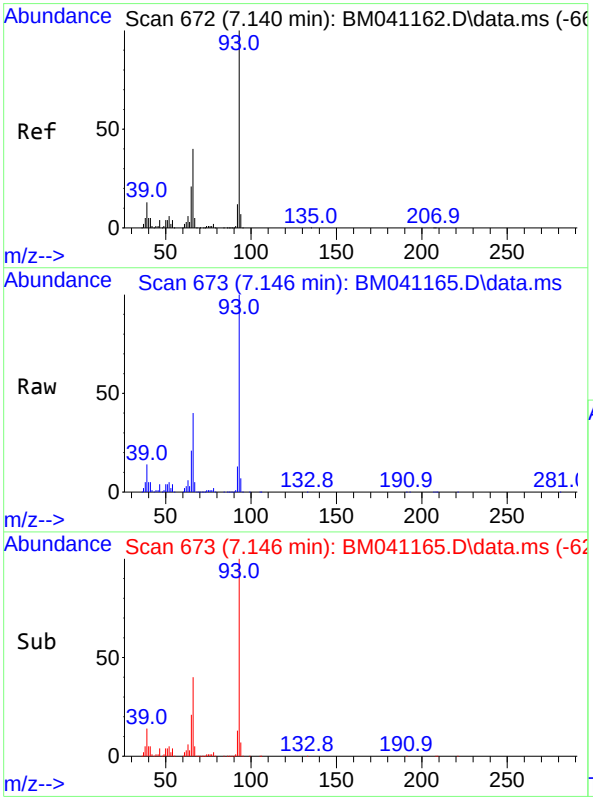
Ion	Ratio	Lower	Upper
112	100		
64	59.4	48.5	72.7
63	31.9	26.5	39.7



Instrument :
BNA_M
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

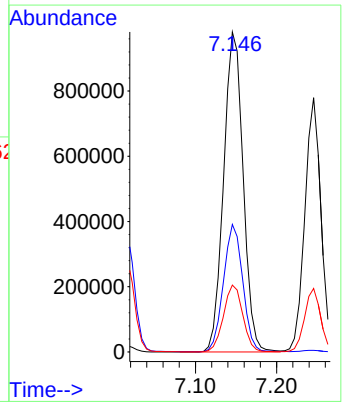
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

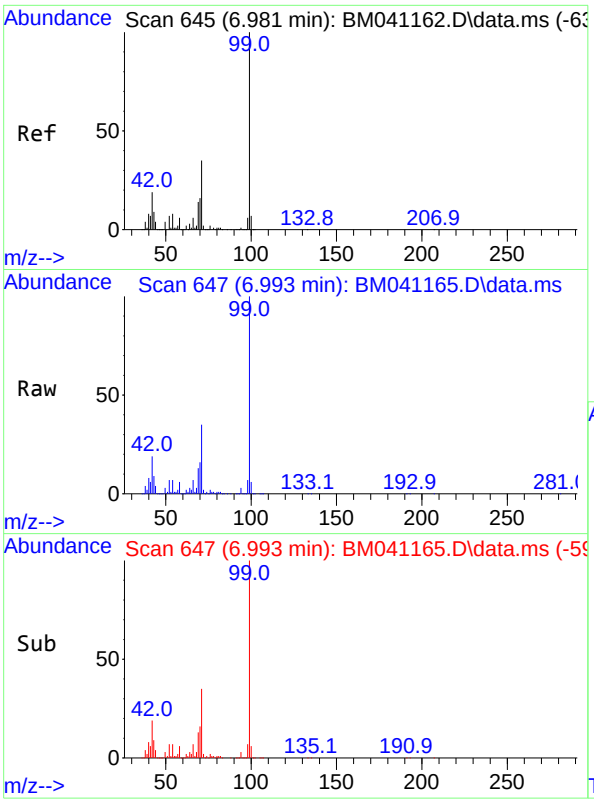


#6
Aniline
Concen: 76.275 ng
RT: 7.146 min Scan# 673
Delta R.T. 0.006 min
Lab File: BM041165.D
Acq: 28 Jul 2023 14:38

Tgt Ion: 93 Resp: 1641113

Ion	Ratio	Lower	Upper
93	100		
66	39.9	32.0	48.0
65	20.9	16.6	24.8

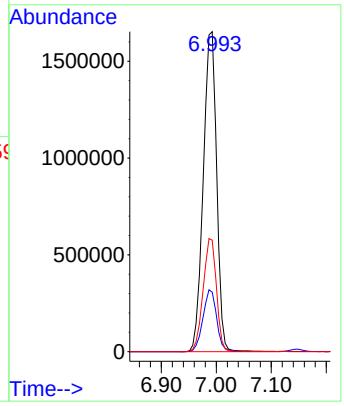




#7
Phenol-d6
Concen: 152.273 ng
RT: 6.993 min Scan# 64
Delta R.T. 0.012 min
Lab File: BM041165.D
Acq: 28 Jul 2023 14:38

Tgt Ion: 99 Resp: 279950

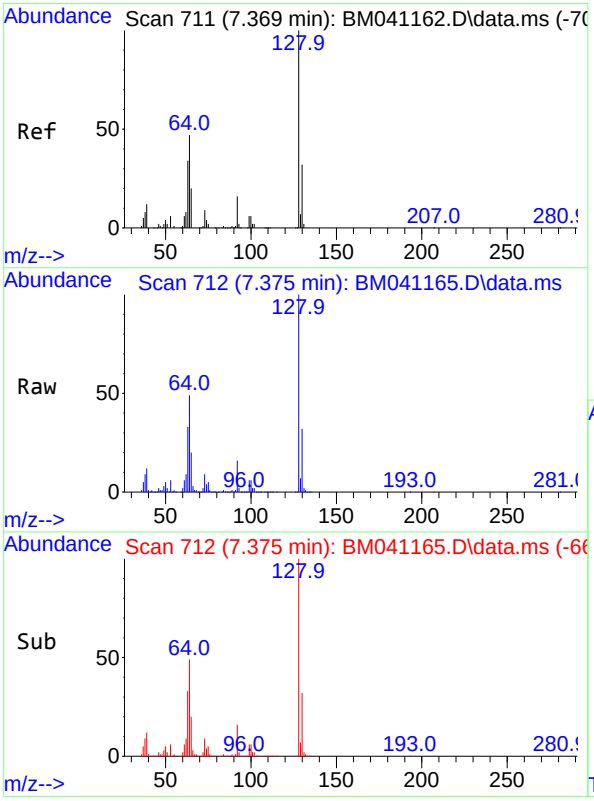
Ion	Ratio	Lower	Upper
99	100		
42	18.6	15.4	23.0
71	34.8	28.2	42.4



Instrument :
BNA_M
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

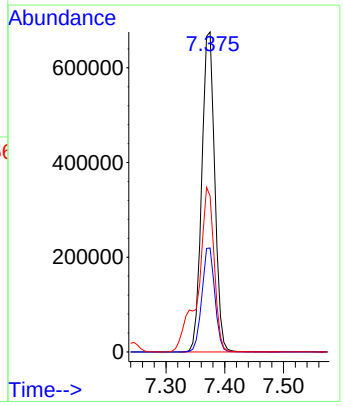
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

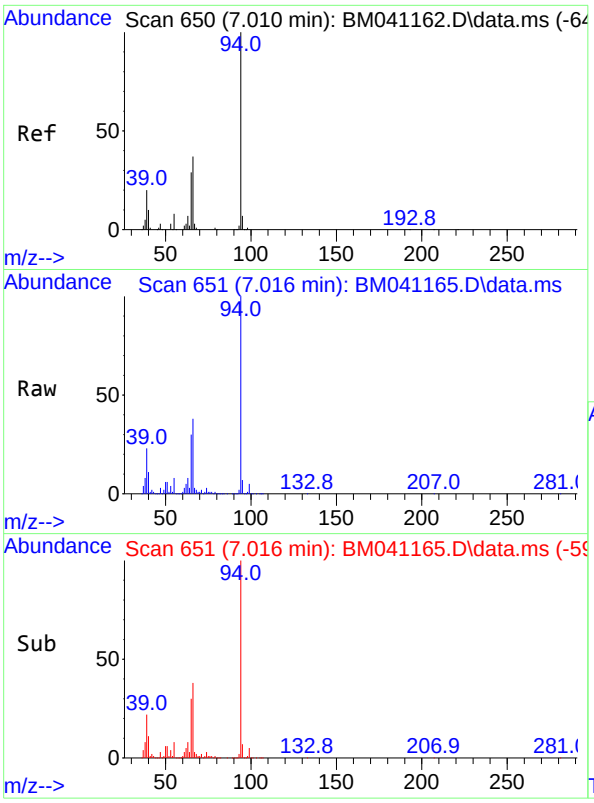


#8
2-Chlorophenol
Concen: 74.780 ng
RT: 7.375 min Scan# 712
Delta R.T. 0.006 min
Lab File: BM041165.D
Acq: 28 Jul 2023 14:38

Tgt Ion:128 Resp: 1035410

Ion	Ratio	Lower	Upper
128	100		
130	32.5	12.3	52.3
64	48.8	29.3	69.3

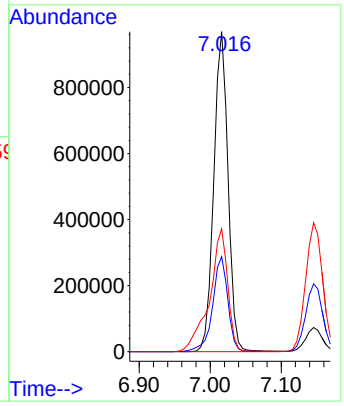




#10
Phenol
Concen: 75.745 ng
RT: 7.016 min Scan# 6
Delta R.T. 0.006 min
Lab File: BM041165.D
Acq: 28 Jul 2023 14:38

Tgt Ion: 94 Resp: 134496

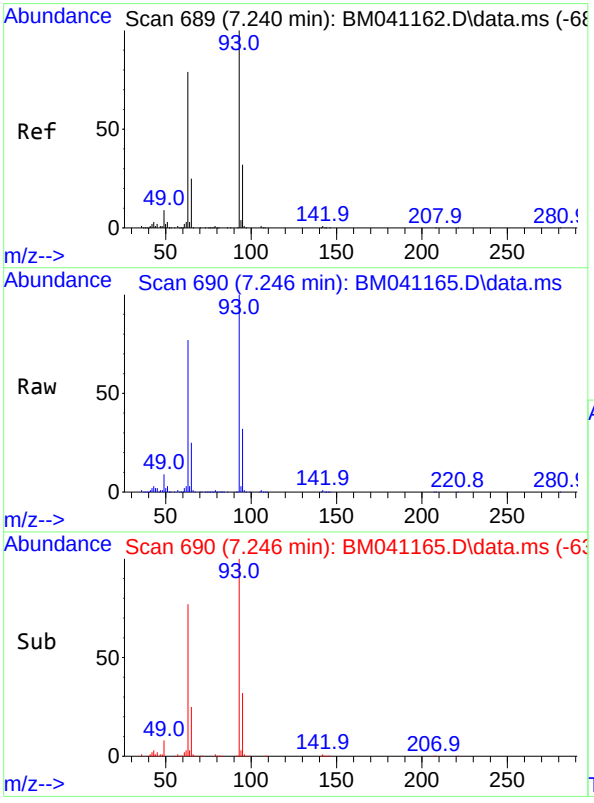
Ion	Ratio	Lower	Upper
94	100		
65	29.7	9.5	49.5
66	38.4	18.0	58.0



Instrument :
BNA_M
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

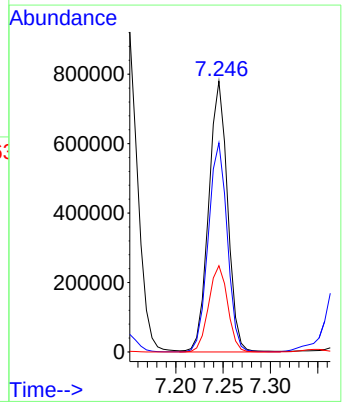
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

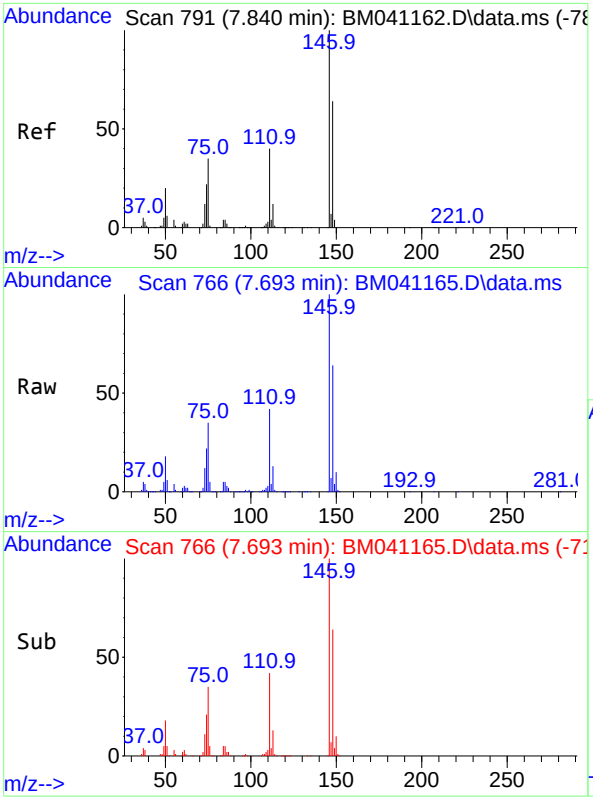


#11
bis(2-Chloroethyl)ether
Concen: 75.254 ng
RT: 7.246 min Scan# 690
Delta R.T. 0.006 min
Lab File: BM041165.D
Acq: 28 Jul 2023 14:38

Tgt Ion: 93 Resp: 1081650

Ion	Ratio	Lower	Upper
93	100		
63	77.3	58.8	98.8
95	31.9	11.8	51.8

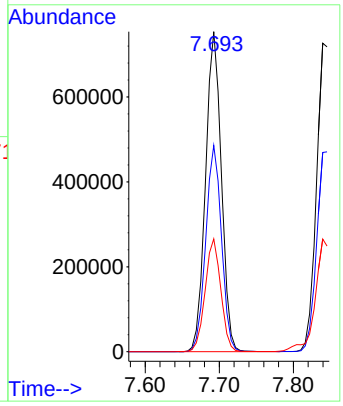




#12
1,3-Dichlorobenzene
Concen: 74.214 ng
RT: 7.693 min Scan# 7(
Delta R.T. 0.000 min
Lab File: BM041165.D
Acq: 28 Jul 2023 14:38

Tgt Ion:146 Resp: 111854(

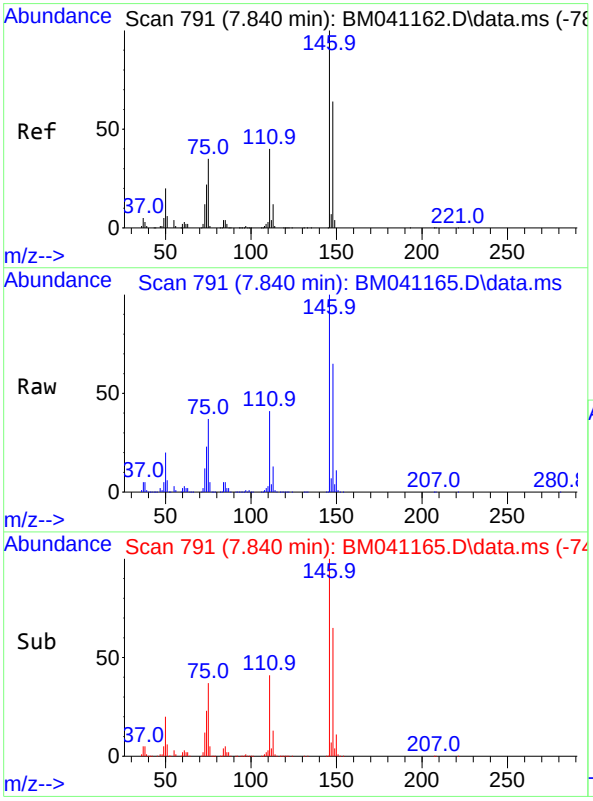
Ion	Ratio	Lower	Upper
146	100		
148	64.4	51.9	77.9
75	35.3	28.3	42.5



Instrument :
BNA_M
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

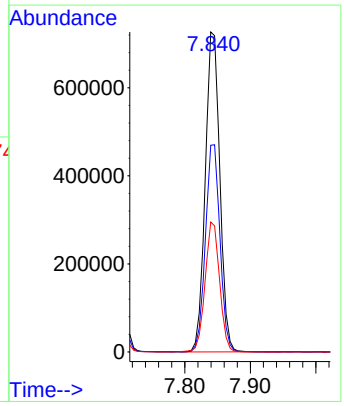
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

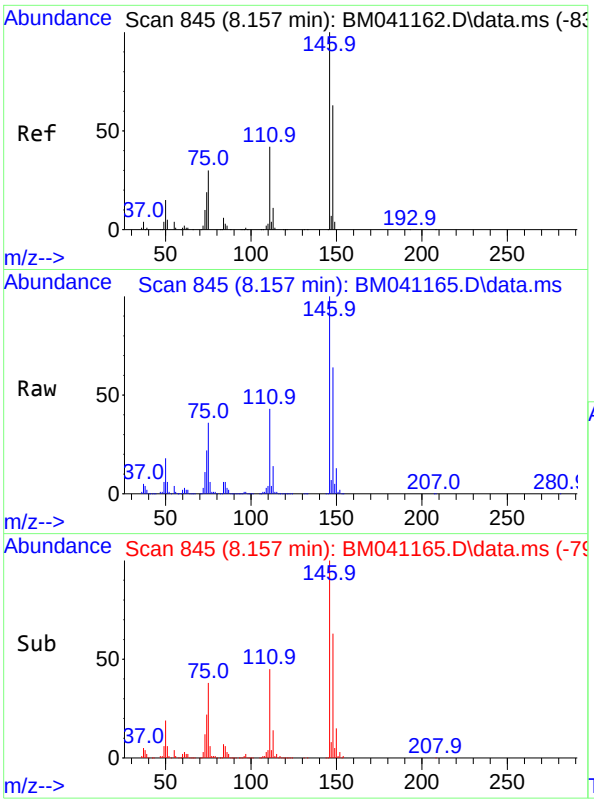


#13
1,4-Dichlorobenzene
Concen: 74.301 ng
RT: 7.840 min Scan# 791
Delta R.T. 0.000 min
Lab File: BM041165.D
Acq: 28 Jul 2023 14:38

Tgt Ion:146 Resp: 1125580

Ion	Ratio	Lower	Upper
146	100		
148	64.6	51.4	77.0
111	40.6	32.4	48.6

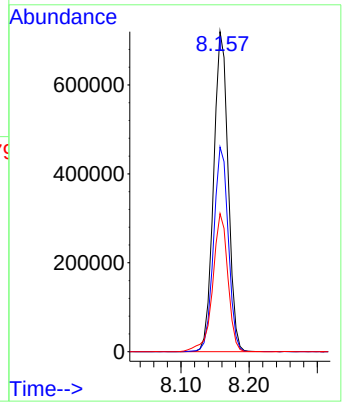




#14
1,2-Dichlorobenzene
Concen: 73.496 ng
RT: 8.157 min Scan# 84
Delta R.T. 0.000 min
Lab File: BM041165.D
Acq: 28 Jul 2023 14:38

Tgt Ion:146 Resp: 106755

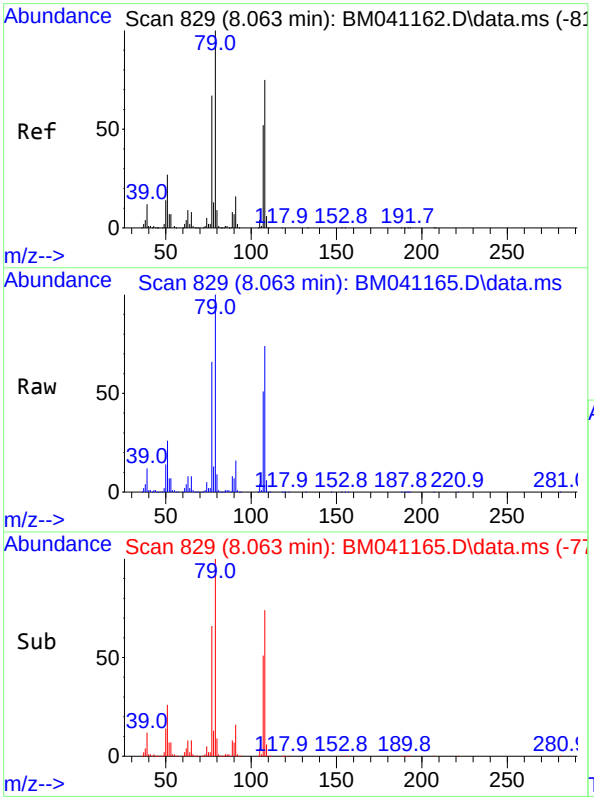
Ion	Ratio	Lower	Upper
146	100		
148	64.0	50.9	76.3
111	43.2	33.8	50.6



Instrument :
BNA_M
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

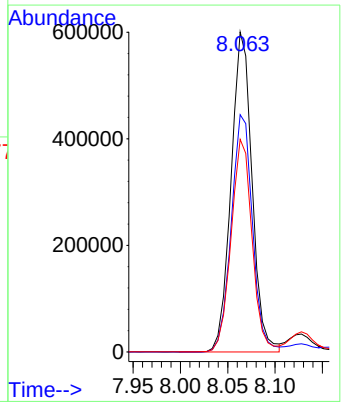
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

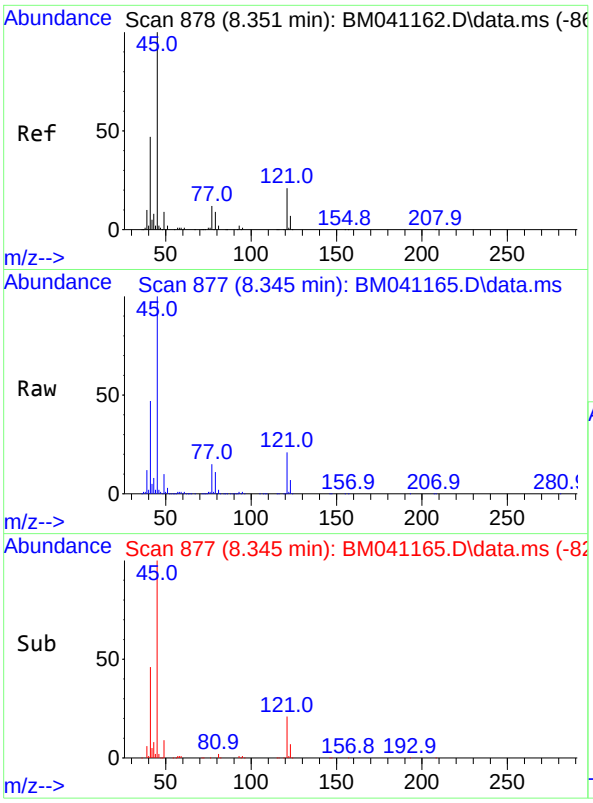


#15
Benzyl Alcohol
Concen: 79.615 ng
RT: 8.063 min Scan# 829
Delta R.T. 0.000 min
Lab File: BM041165.D
Acq: 28 Jul 2023 14:38

Tgt Ion: 79 Resp: 924350

Ion	Ratio	Lower	Upper
79	100		
108	74.2	59.8	89.8
77	66.4	53.8	80.6

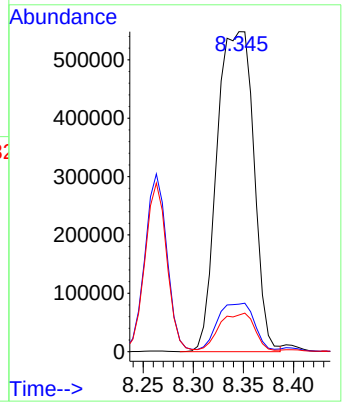




#16
2,2'-oxybis(1-Chloropropane)
Concen: 72.836 ng
RT: 8.345 min Scan# 8
Delta R.T. -0.006 min
Lab File: BM041165.D
Acq: 28 Jul 2023 14:38

Tgt Ion: 45 Resp: 139487

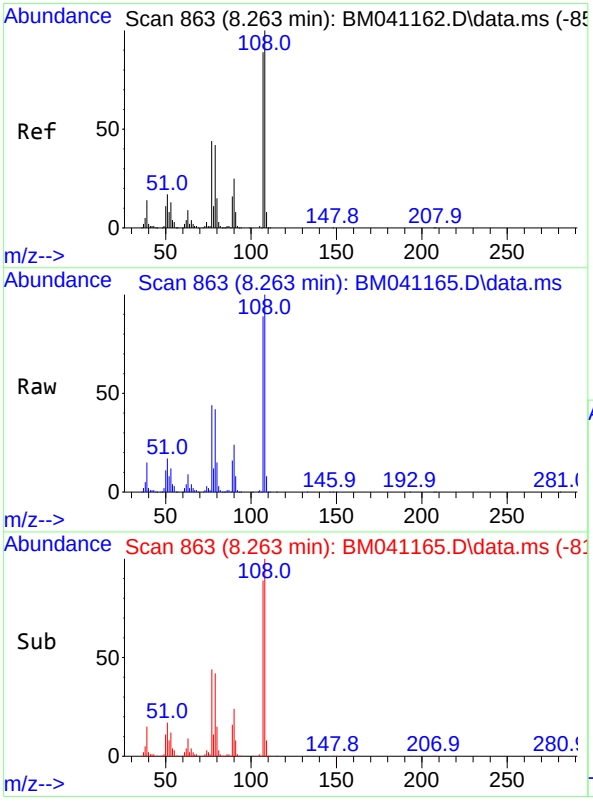
Ion	Ratio	Lower	Upper
45	100		
77	14.9	0.0	34.5
79	11.5	0.0	32.1



Instrument :
BNA_M
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

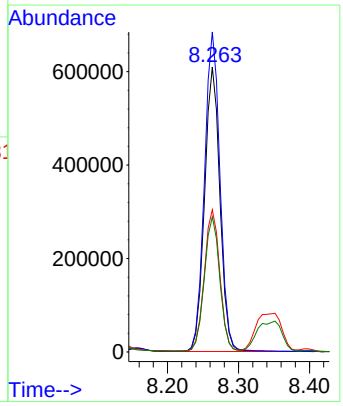
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

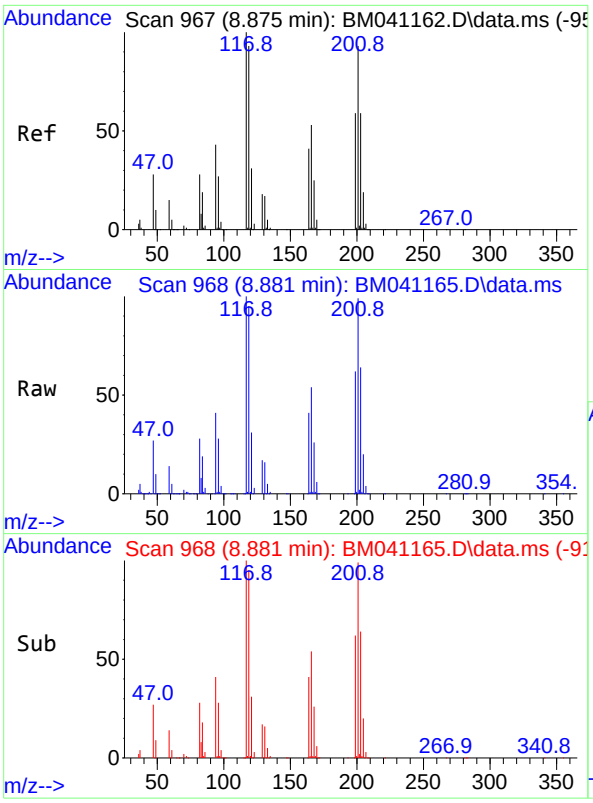


#17
2-Methylphenol
Concen: 75.773 ng
RT: 8.263 min Scan# 863
Delta R.T. 0.000 min
Lab File: BM041165.D
Acq: 28 Jul 2023 14:38

Tgt Ion:107 Resp: 919215

Ion	Ratio	Lower	Upper
107	100		
108	112.3	89.9	134.9
77	49.9	39.8	59.8
79	47.4	37.7	56.5

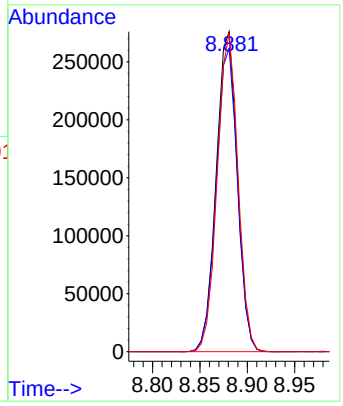




#18
Hexachloroethane
Concen: 75.888 ng
RT: 8.881 min Scan# 9
Delta R.T. 0.006 min
Lab File: BM041165.D
Acq: 28 Jul 2023 14:38

Tgt Ion:117 Resp: 42799

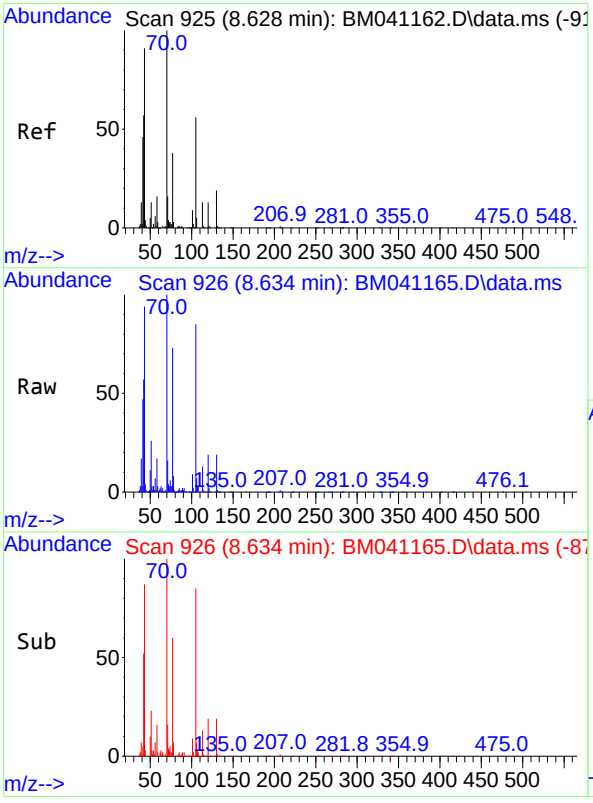
Ion	Ratio	Lower	Upper
117	100		
119	94.8	74.2	111.4
201	99.4	74.5	111.7



Instrument :
BNA_M
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

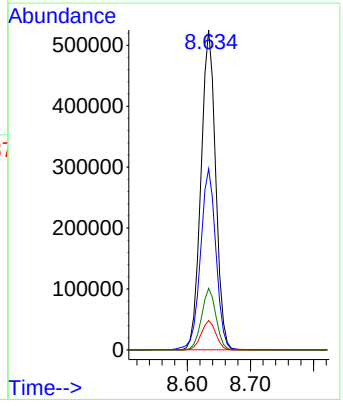
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

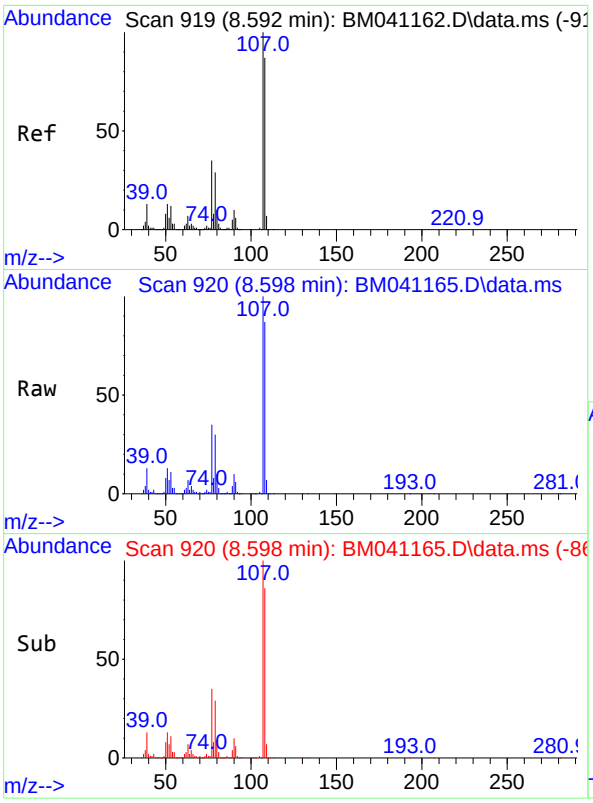


#19
n-Nitroso-di-n-propylamine
Concen: 75.871 ng
RT: 8.634 min Scan# 926
Delta R.T. 0.006 min
Lab File: BM041165.D
Acq: 28 Jul 2023 14:38

Tgt Ion: 70 Resp: 847235

Ion	Ratio	Lower	Upper
70	100		
42	56.6	45.8	68.8
101	9.2	7.4	11.0
130	19.3	15.2	22.8

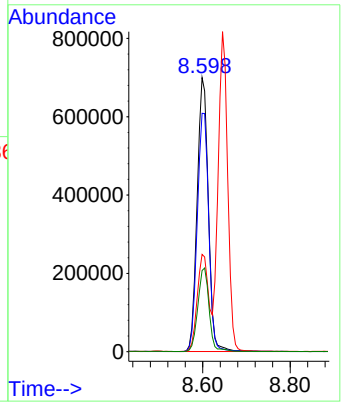




#20
3+4-Methylphenols
Concen: 76.885 ng
RT: 8.598 min Scan# 9
Delta R.T. 0.006 min
Lab File: BM041165.D
Acq: 28 Jul 2023 14:38

Tgt Ion:107 Resp: 124708

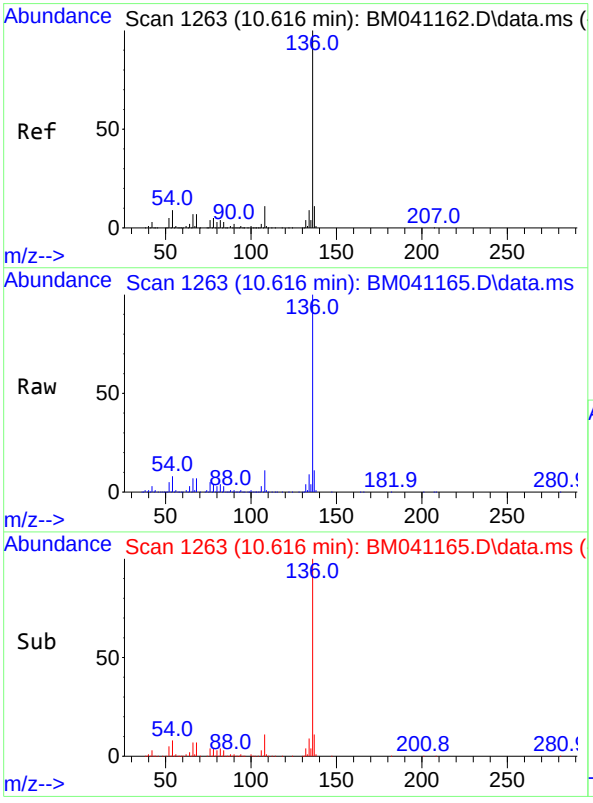
Ion	Ratio	Lower	Upper
107	100		
108	87.0	67.2	107.2
77	35.5	15.4	55.4
79	29.6	9.2	49.2



Instrument :
BNA_M
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

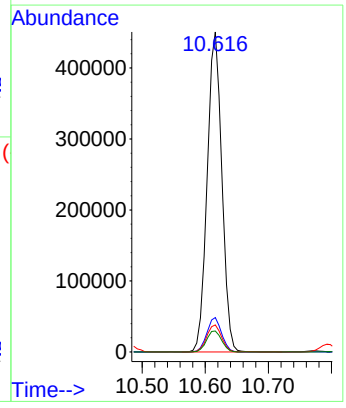
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

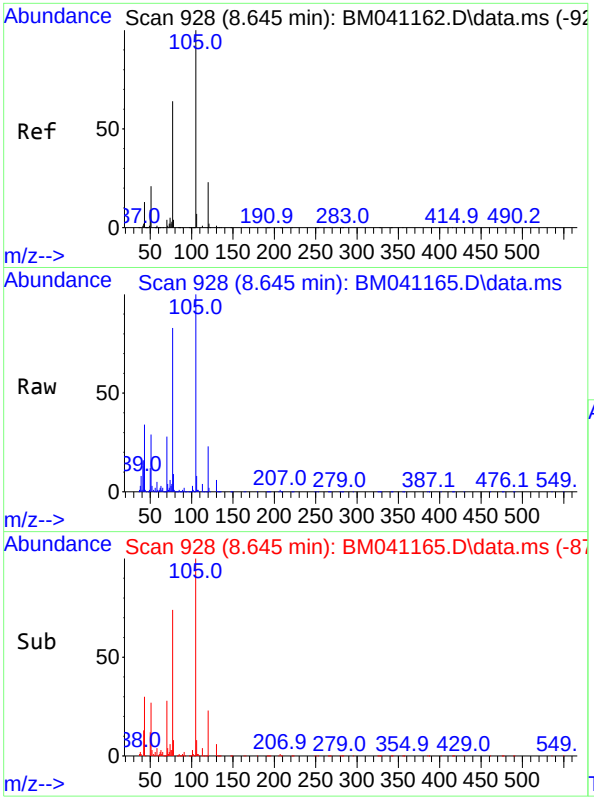


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.616 min Scan# 1263
Delta R.T. -0.000 min
Lab File: BM041165.D
Acq: 28 Jul 2023 14:38

Tgt Ion:136 Resp: 724308

Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.8	13.2
54	8.5	6.9	10.3
68	6.6	5.4	8.2

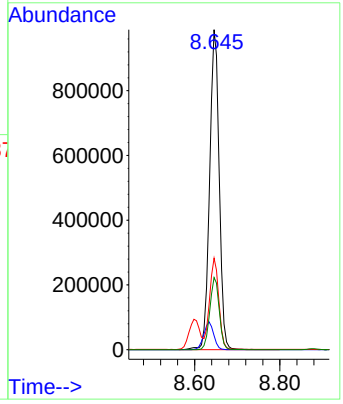




#22
Acetophenone
Concen: 80.248 ng
RT: 8.645 min Scan# 9
Delta R.T. 0.000 min
Lab File: BM041165.D
Acq: 28 Jul 2023 14:38

Tgt Ion:105 Resp: 153938

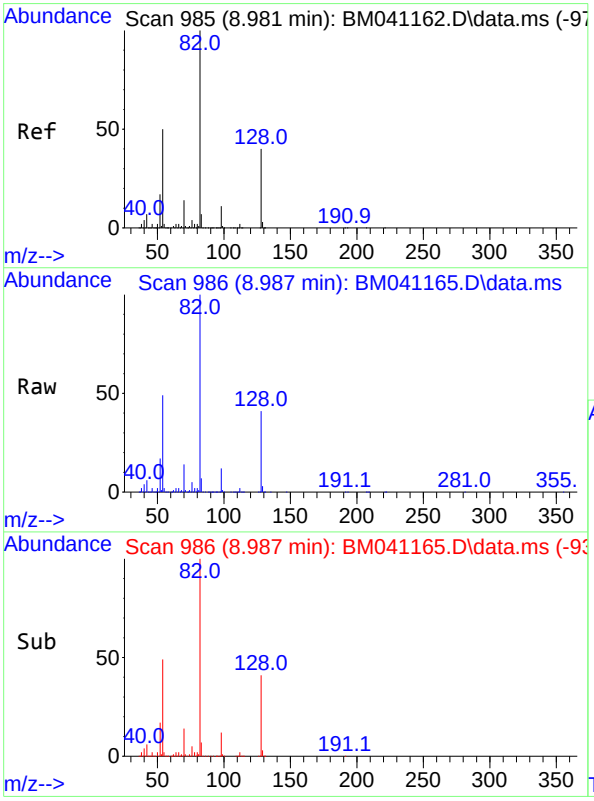
Ion	Ratio	Lower	Upper
105	100		
71	4.4	1.2	1.8
51	28.6	22.0	33.0
120	22.5	18.0	27.0



Instrument :
BNA_M
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

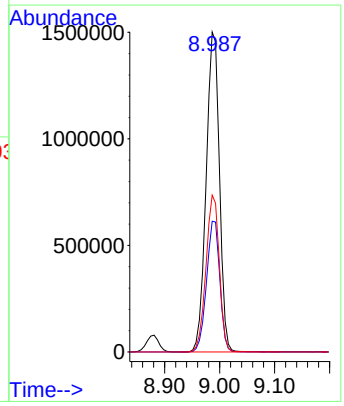
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

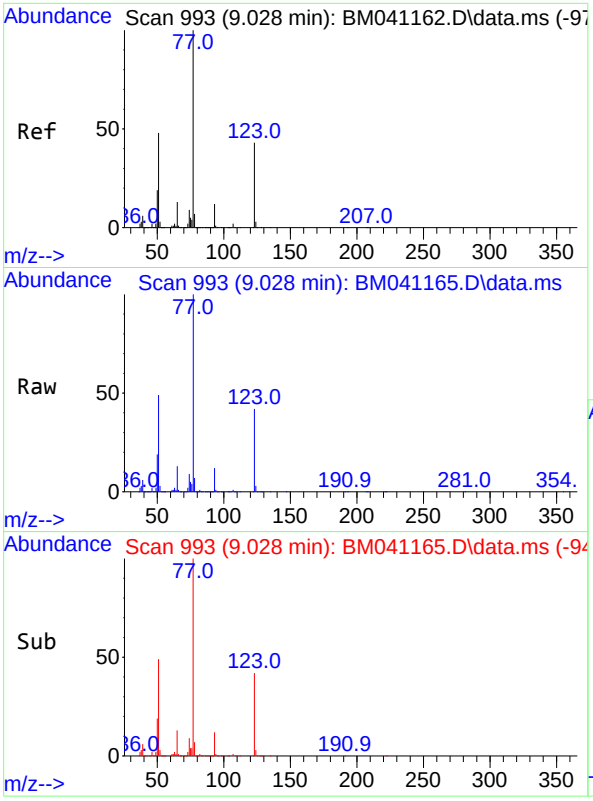


#23
Nitrobenzene-d5
Concen: 161.757 ng
RT: 8.987 min Scan# 986
Delta R.T. 0.006 min
Lab File: BM041165.D
Acq: 28 Jul 2023 14:38

Tgt Ion: 82 Resp: 2519357

Ion	Ratio	Lower	Upper
82	100		
128	40.8	31.8	47.6
54	49.0	40.1	60.1

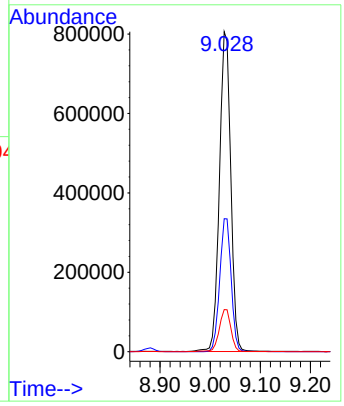




#24
Nitrobenzene
Concen: 80.161 ng
RT: 9.028 min Scan# 9
Delta R.T. 0.000 min
Lab File: BM041165.D
Acq: 28 Jul 2023 14:38

Tgt Ion: 77 Resp: 126258

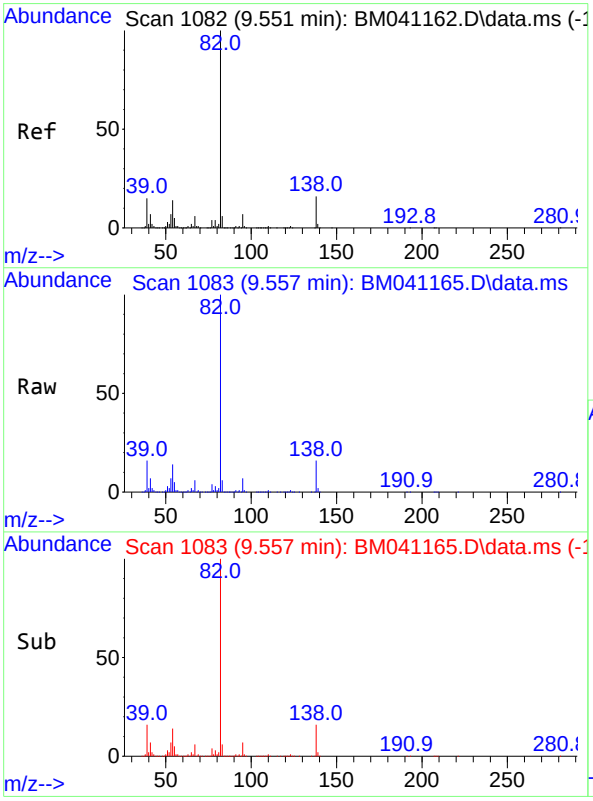
Ion	Ratio	Lower	Upper
77	100		
123	41.6	34.2	51.2
65	13.1	10.7	16.1



Instrument :
BNA_M
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

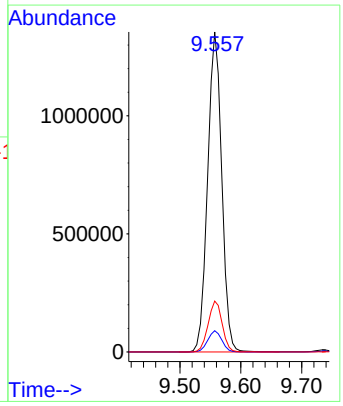
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

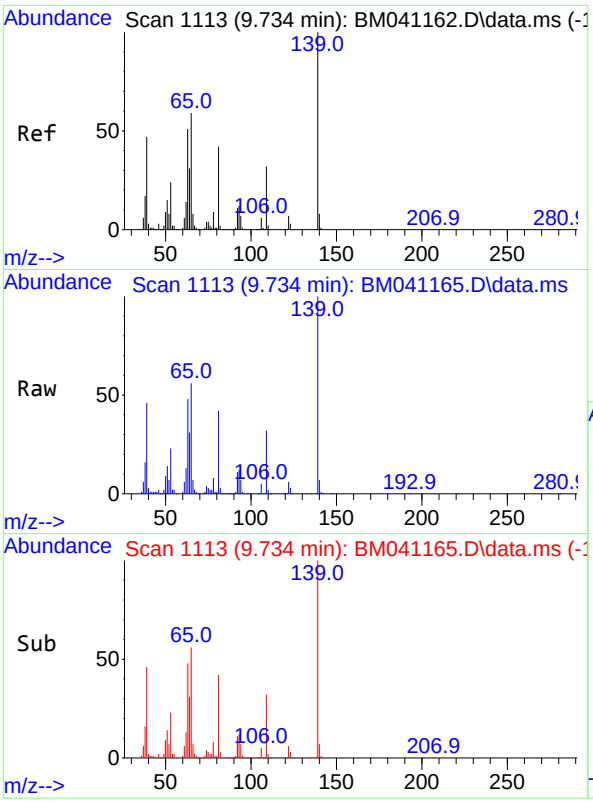


#25
Isophorone
Concen: 82.468 ng
RT: 9.557 min Scan# 1083
Delta R.T. 0.006 min
Lab File: BM041165.D
Acq: 28 Jul 2023 14:38

Tgt Ion: 82 Resp: 2180367

Ion	Ratio	Lower	Upper
82	100		
95	6.7	5.3	7.9
138	15.9	12.8	19.2





#26
2-Nitrophenol
Concen: 88.564 ng
RT: 9.734 min Scan# 11
Delta R.T. 0.000 min
Lab File: BM041165.D
Acq: 28 Jul 2023 14:38

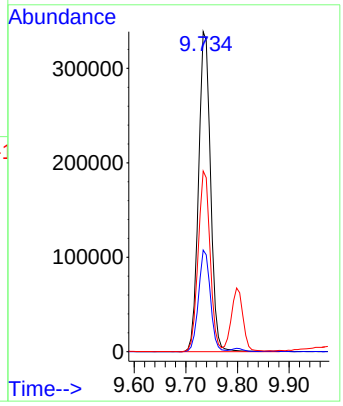
Tgt Ion:139 Resp: 54531

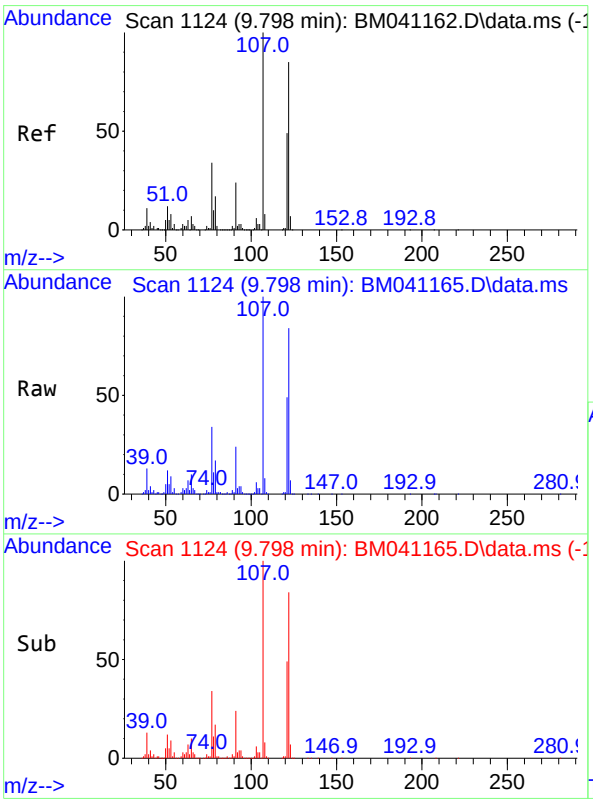
Ion	Ratio	Lower	Upper
139	100		
109	31.7	25.4	38.2
65	56.5	47.2	70.8

Instrument :
BNA_M
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

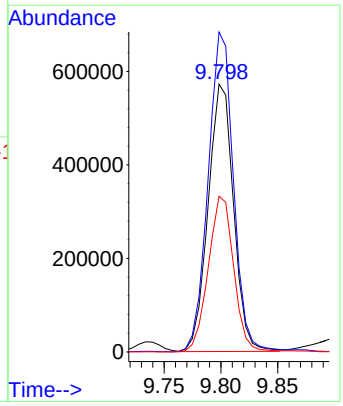


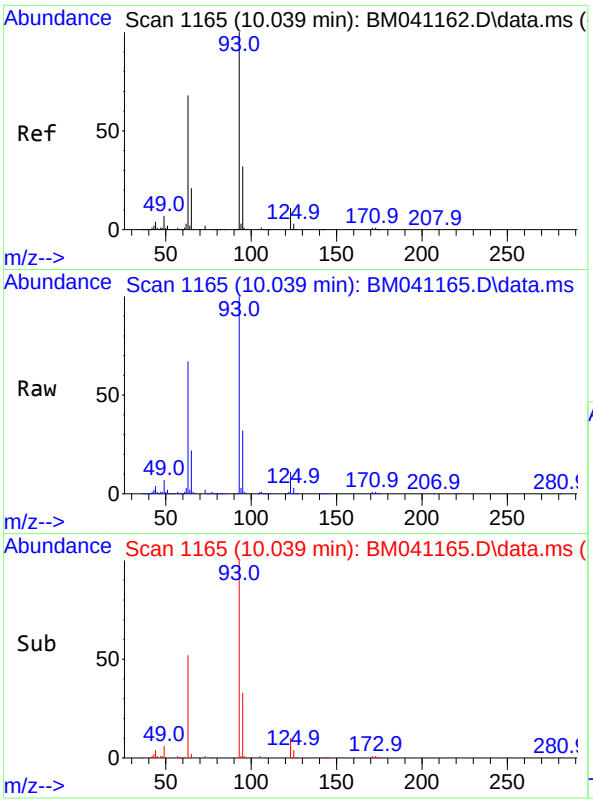


#27
2,4-Dimethylphenol
Concen: 82.280 ng
RT: 9.798 min Scan# 1124
Delta R.T. 0.000 min
Lab File: BM041165.D
Acq: 28 Jul 2023 14:38

Tgt Ion:122 Resp: 891494

Ion	Ratio	Lower	Upper
122	100		
107	119.5	94.3	141.5
121	58.1	45.8	68.8

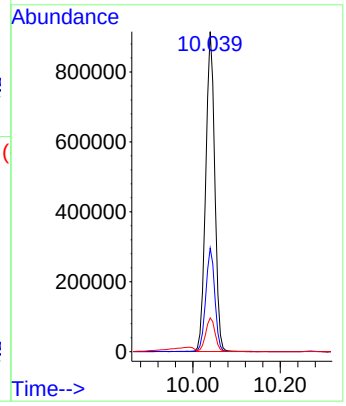




#28
bis(2-Chloroethoxy)methane
Concen: 79.684 ng
RT: 10.039 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM041165.D
Acq: 28 Jul 2023 14:38

Tgt Ion: 93 Resp: 131967

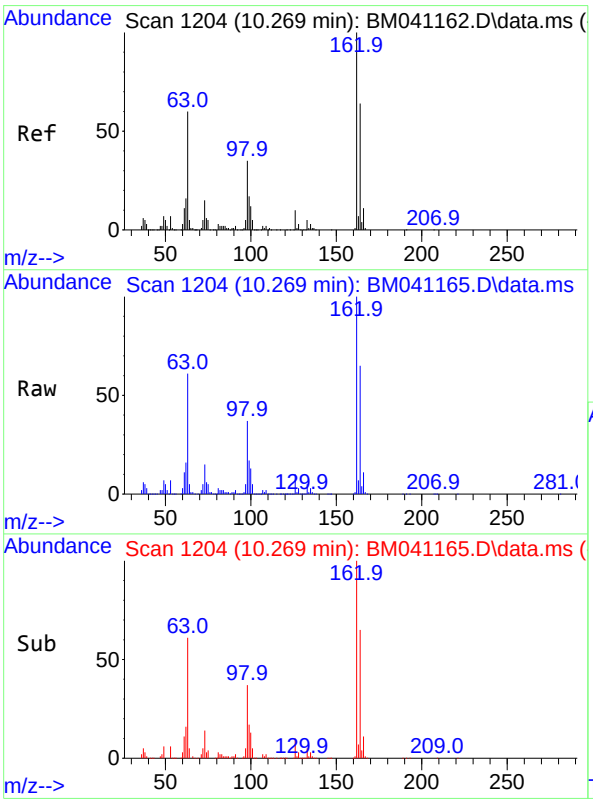
Ion	Ratio	Lower	Upper
93	100		
95	32.4	25.9	38.9
123	10.6	9.1	13.7



Instrument :
BNA_M
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

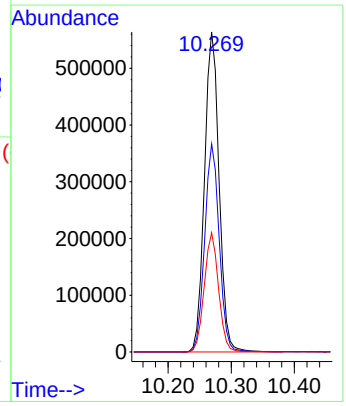
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

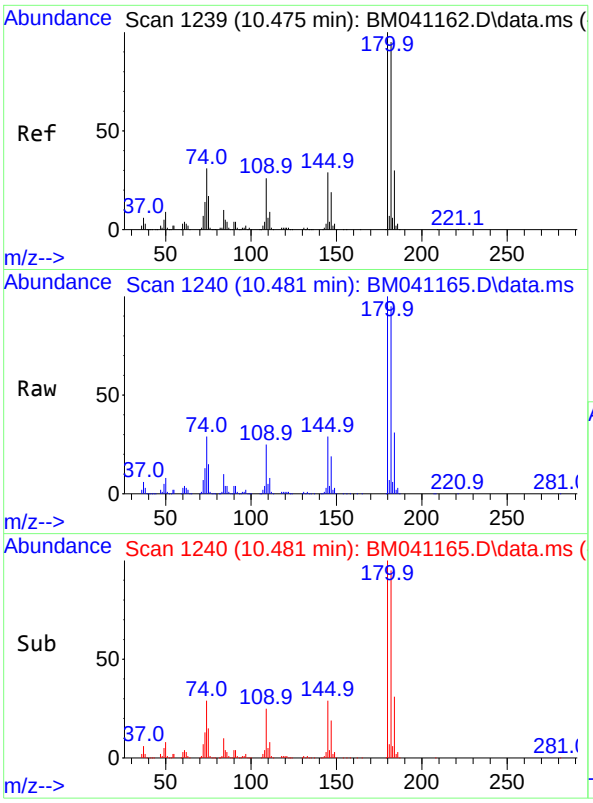


#29
2,4-Dichlorophenol
Concen: 83.107 ng
RT: 10.269 min Scan# 1204
Delta R.T. 0.000 min
Lab File: BM041165.D
Acq: 28 Jul 2023 14:38

Tgt Ion:162 Resp: 908051

Ion	Ratio	Lower	Upper
162	100		
164	65.0	44.3	84.3
98	37.3	15.1	55.1

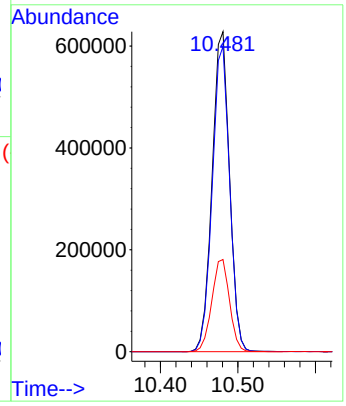




#30
1,2,4-Trichlorobenzene
Concen: 81.082 ng
RT: 10.481 min Scan# 1
Delta R.T. 0.006 min
Lab File: BM041165.D
Acq: 28 Jul 2023 14:38

Tgt Ion:180 Resp: 97881

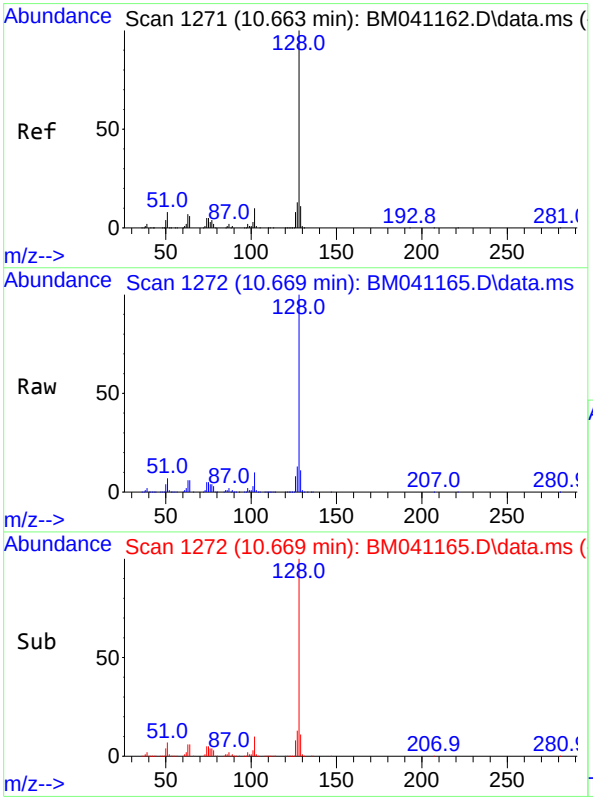
Ion	Ratio	Lower	Upper
180	100		
182	95.4	75.9	113.9
145	28.8	23.6	35.4



Instrument :
BNA_M
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

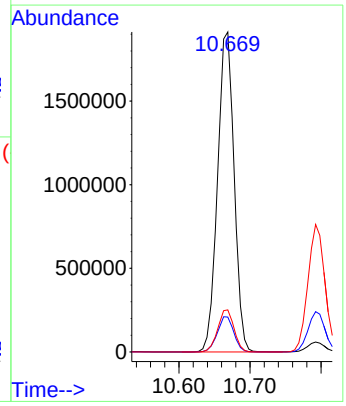
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

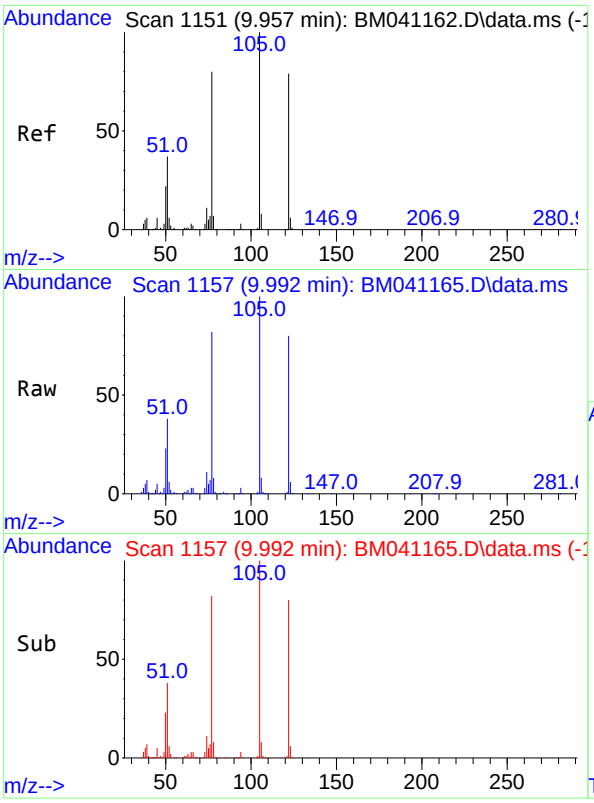


#31
Naphthalene
Concen: 78.582 ng
RT: 10.669 min Scan# 1272
Delta R.T. 0.006 min
Lab File: BM041165.D
Acq: 28 Jul 2023 14:38

Tgt Ion:128 Resp: 3088679

Ion	Ratio	Lower	Upper
128	100		
129	10.9	9.0	13.4
127	13.2	10.5	15.7

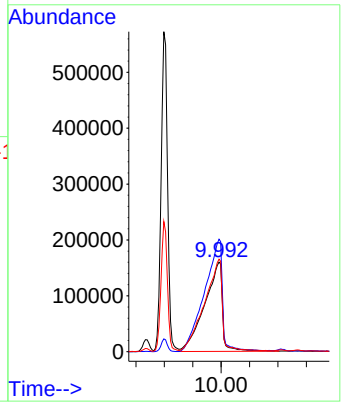




#32
Benzoic acid
Concen: 80.534 ng
RT: 9.992 min Scan# 11
Delta R.T. 0.035 min
Lab File: BM041165.D
Acq: 28 Jul 2023 14:38

Tgt Ion:122 Resp: 70172

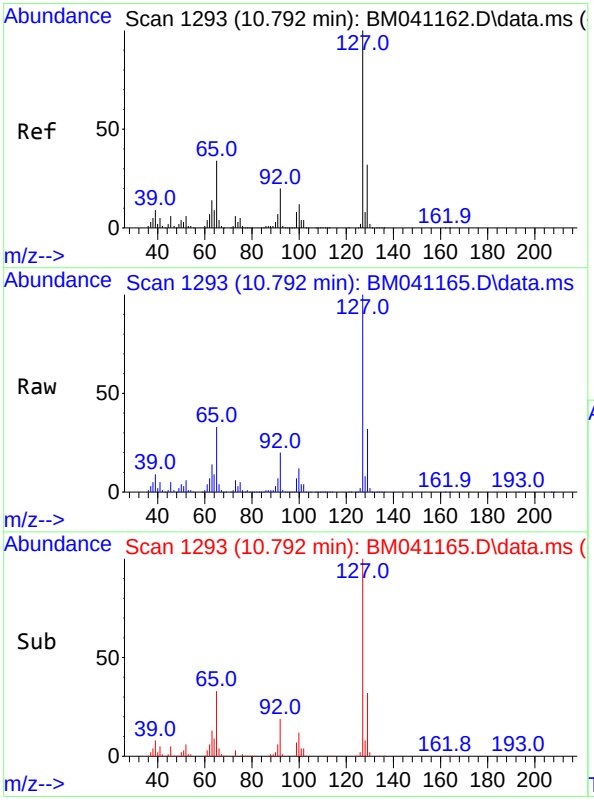
Ion	Ratio	Lower	Upper
122	100		
105	125.5	104.0	144.0
77	103.2	79.9	119.9



Instrument :
BNA_M
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

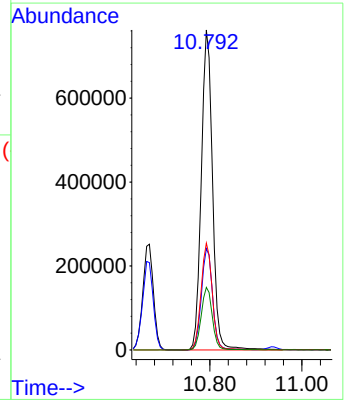
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

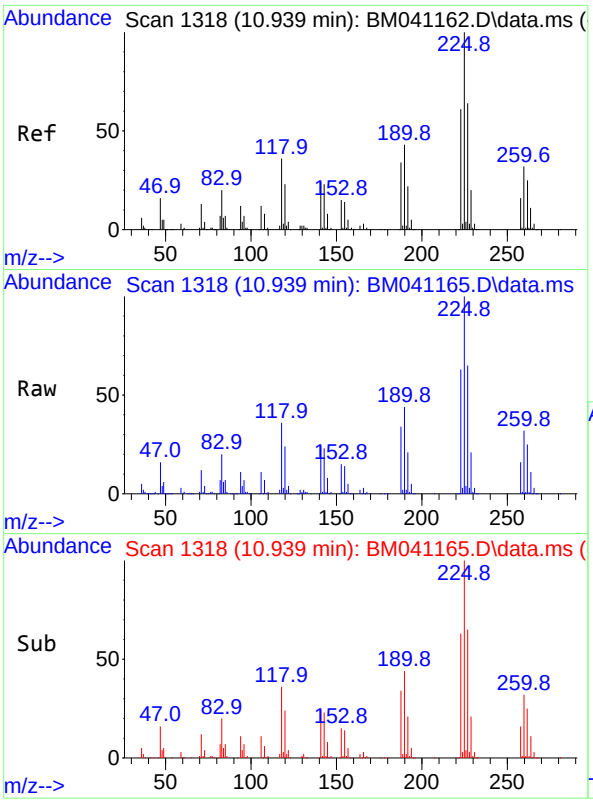


#33
4-Chloroaniline
Concen: 81.989 ng
RT: 10.792 min Scan# 1293
Delta R.T. 0.000 min
Lab File: BM041165.D
Acq: 28 Jul 2023 14:38

Tgt Ion:127 Resp: 1287860

Ion	Ratio	Lower	Upper
127	100		
129	31.7	25.9	38.9
65	33.4	26.9	40.3
92	19.6	15.8	23.6

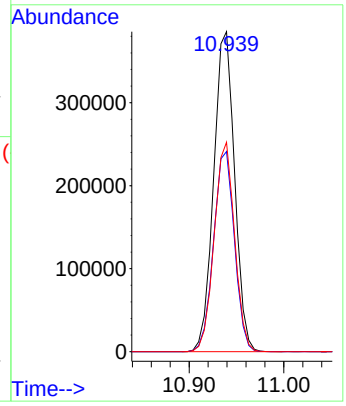




#34
Hexachlorobutadiene
Concen: 81.477 ng
RT: 10.939 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM041165.D
Acq: 28 Jul 2023 14:38

Tgt Ion:225 Resp: 59155

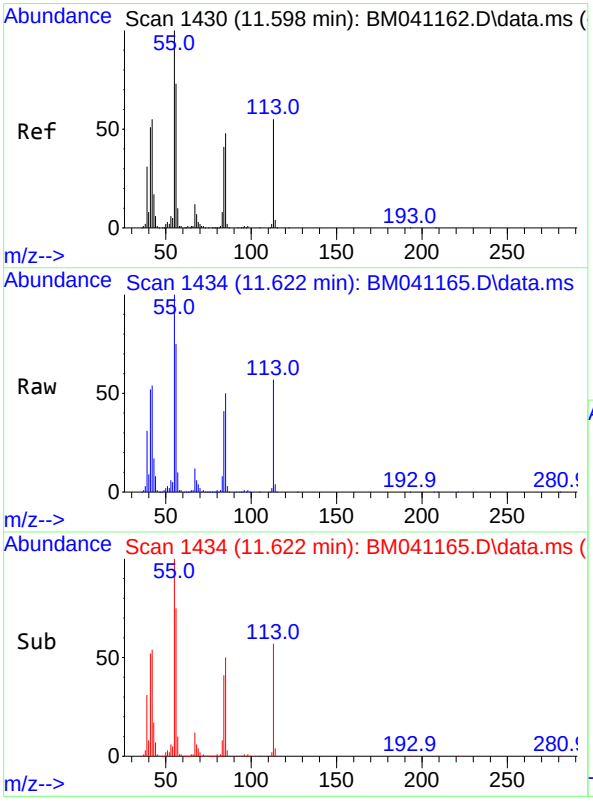
Ion	Ratio	Lower	Upper
225	100		
223	62.5	49.0	73.4
227	65.5	50.8	76.2



Instrument :
BNA_M
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

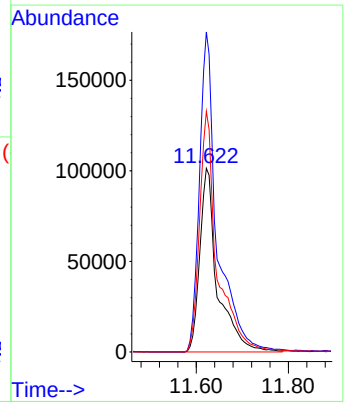
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

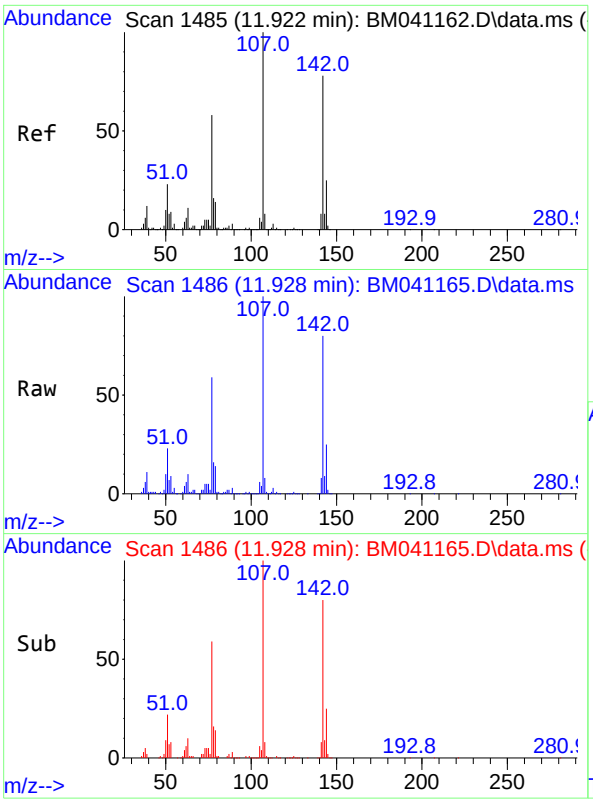


#35
Caprolactam
Concen: 85.574 ng
RT: 11.622 min Scan# 1434
Delta R.T. 0.024 min
Lab File: BM041165.D
Acq: 28 Jul 2023 14:38

Tgt Ion:113 Resp: 270480

Ion	Ratio	Lower	Upper
113	100		
55	174.2	162.5	202.5
56	131.0	114.1	154.1

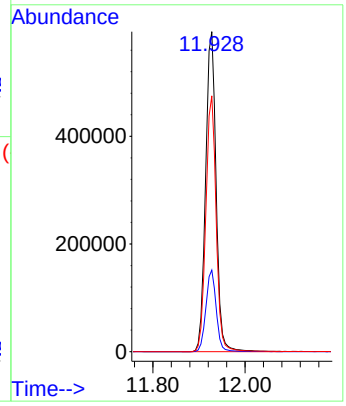




#36
4-Chloro-3-methylphenol
Concen: 82.078 ng
RT: 11.928 min Scan# 14
Delta R.T. 0.006 min
Lab File: BM041165.D
Acq: 28 Jul 2023 14:38

Tgt Ion:107 Resp: 94392

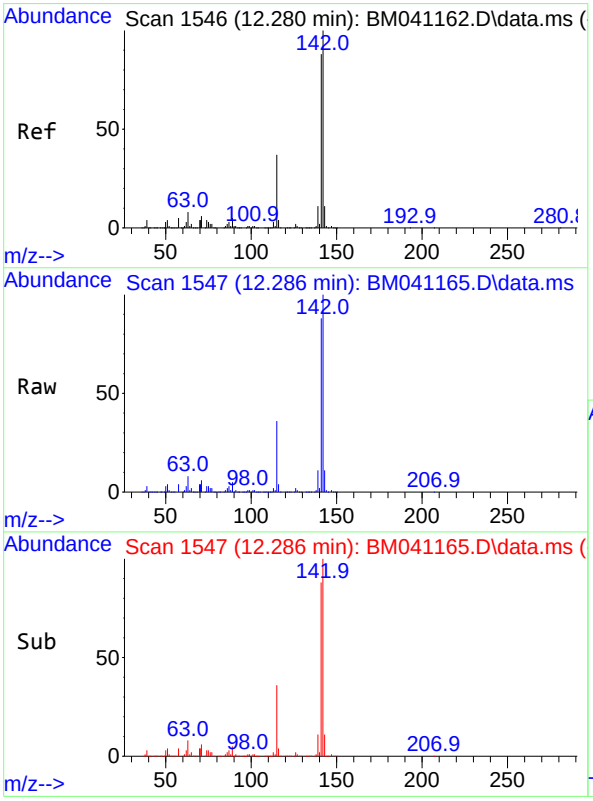
Ion	Ratio	Lower	Upper
107	100		
144	25.5	20.1	30.1
142	79.9	62.2	93.4



Instrument :
BNA_M
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

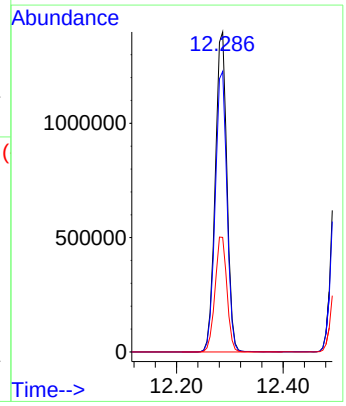
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

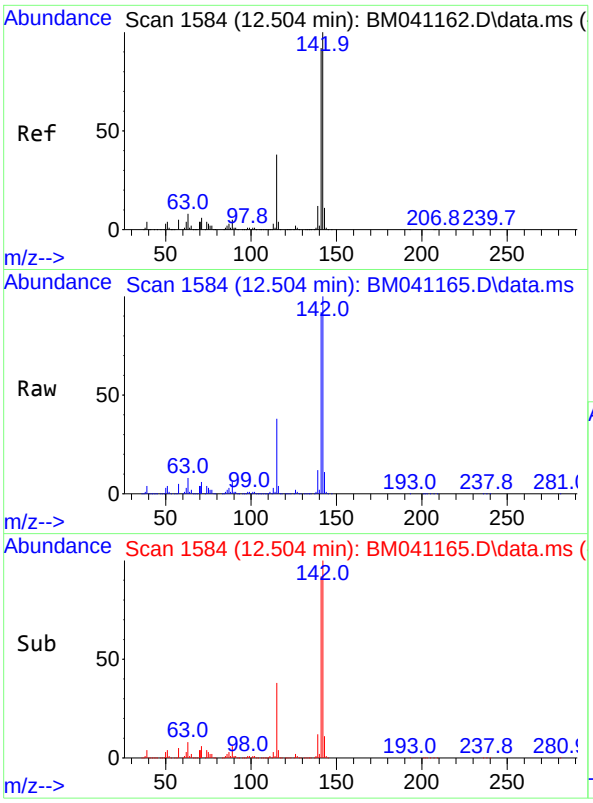


#37
2-Methylnaphthalene
Concen: 80.242 ng
RT: 12.286 min Scan# 1547
Delta R.T. 0.006 min
Lab File: BM041165.D
Acq: 28 Jul 2023 14:38

Tgt Ion:142 Resp: 2126303

Ion	Ratio	Lower	Upper
142	100		
141	87.6	70.7	106.1
115	35.8	29.3	43.9

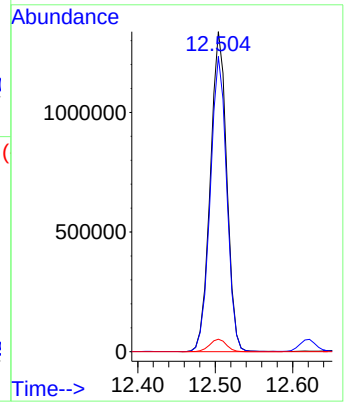




#38
1-Methylnaphthalene
Concen: 79.681 ng
RT: 12.504 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM041165.D
Acq: 28 Jul 2023 14:38

Tgt Ion:142 Resp: 197618

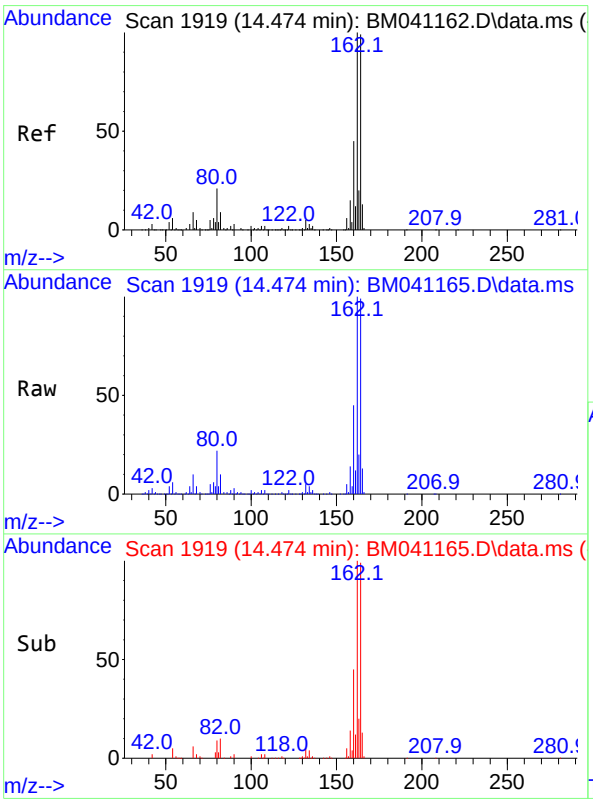
Ion	Ratio	Lower	Upper
142	100		
141	92.2	73.4	110.2
116	3.9	3.2	4.8



Instrument :
BNA_M
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

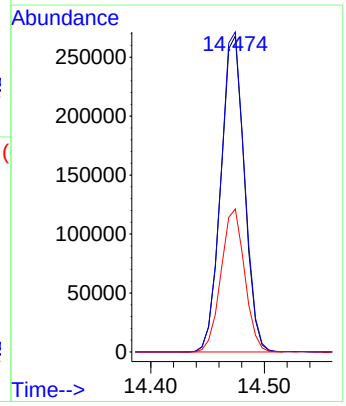
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

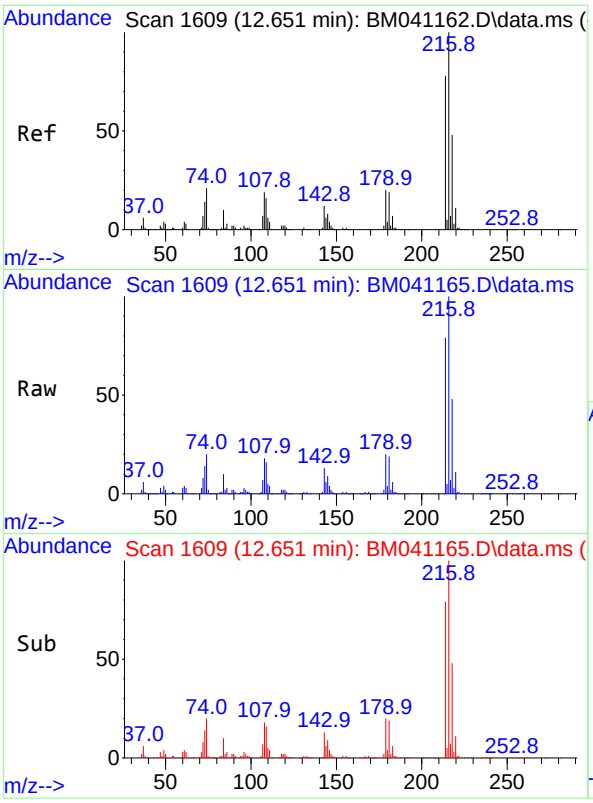


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.474 min Scan# 1919
Delta R.T. 0.000 min
Lab File: BM041165.D
Acq: 28 Jul 2023 14:38

Tgt Ion:164 Resp: 384767

Ion	Ratio	Lower	Upper
164	100		
162	101.2	80.4	120.6
160	45.2	36.2	54.2

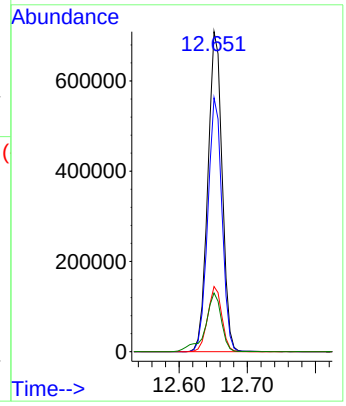




#40
1,2,4,5-Tetrachlorobenzene
Concen: 82.579 ng
RT: 12.651 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM041165.D
Acq: 28 Jul 2023 14:38

Tgt Ion:216 Resp: 103172

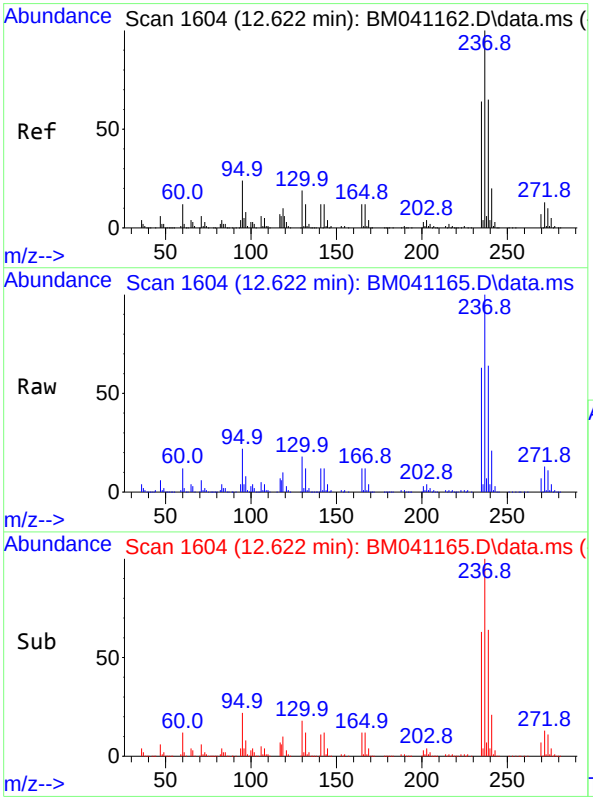
Ion	Ratio	Lower	Upper
216	100		
214	78.9	63.2	94.8
179	20.1	16.2	24.2
108	20.5	17.0	25.4



Instrument :
BNA_M
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

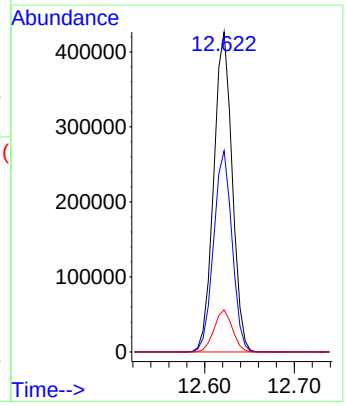
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

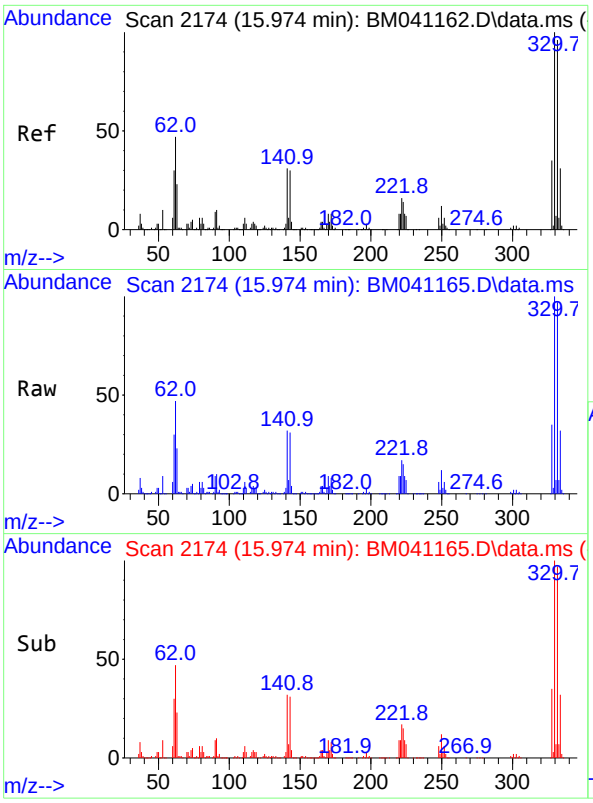


#41
Hexachlorocyclopentadiene
Concen: 92.116 ng
RT: 12.622 min Scan# 1604
Delta R.T. -0.000 min
Lab File: BM041165.D
Acq: 28 Jul 2023 14:38

Tgt Ion:237 Resp: 608867

Ion	Ratio	Lower	Upper
237	100		
235	62.9	43.6	83.6
272	13.2	0.0	33.3

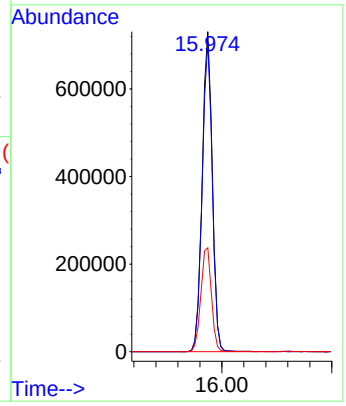




#42
2,4,6-Tribromophenol
Concen: 172.508 ng
RT: 15.974 min Scan# 2
Delta R.T. 0.000 min
Lab File: BM041165.D
Acq: 28 Jul 2023 14:38

Tgt Ion:330 Resp: 93884

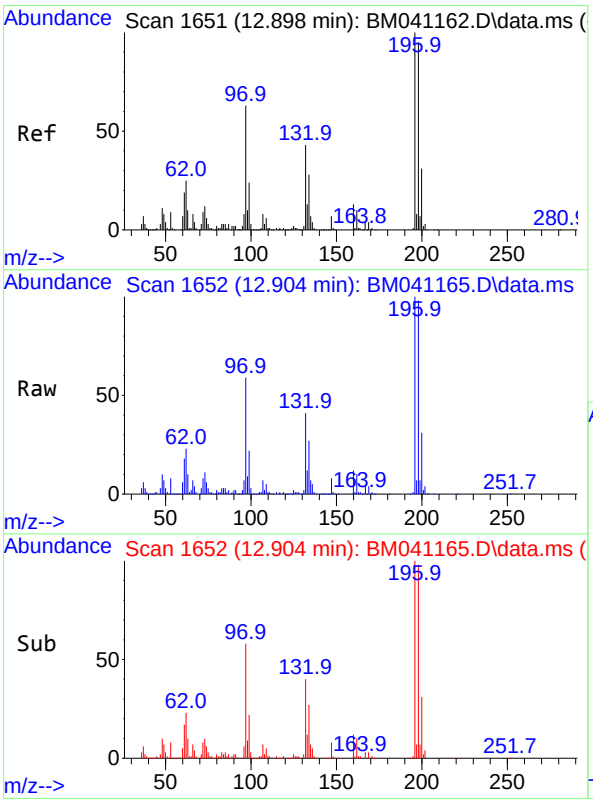
Ion	Ratio	Lower	Upper
330	100		
332	96.2	77.7	116.5
141	33.9	28.3	42.5



Instrument :
BNA_M
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

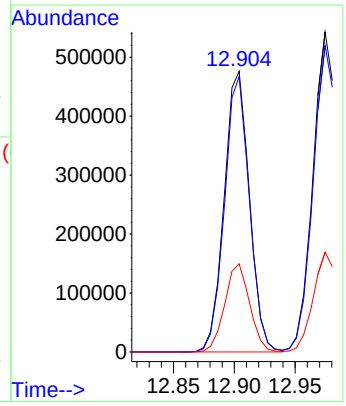
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

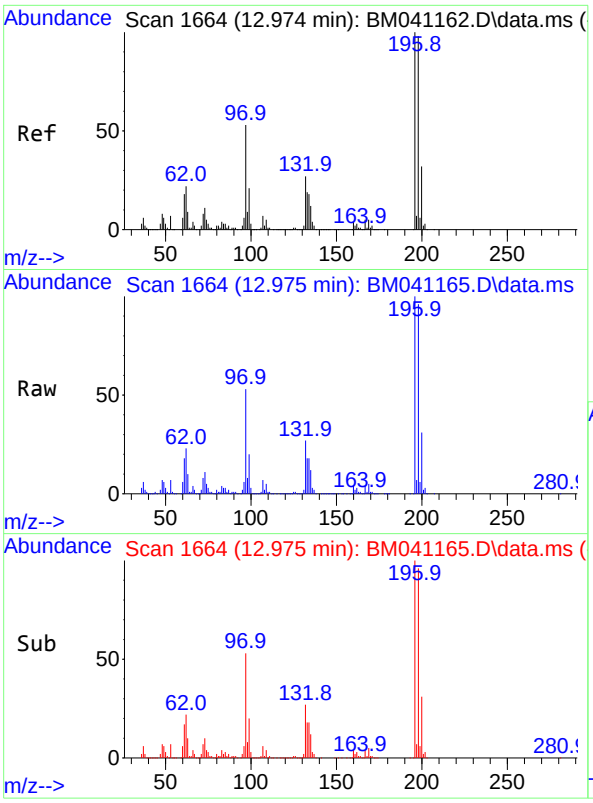


#43
2,4,6-Trichlorophenol
Concen: 85.959 ng
RT: 12.904 min Scan# 1652
Delta R.T. 0.006 min
Lab File: BM041165.D
Acq: 28 Jul 2023 14:38

Tgt Ion:196 Resp: 688340

Ion	Ratio	Lower	Upper
196	100		
198	98.1	76.2	114.4
200	31.4	24.6	36.8

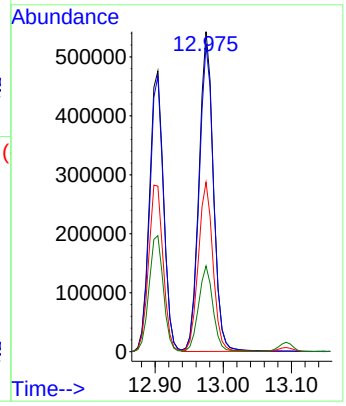




#44
2,4,5-Trichlorophenol
Concen: 85.406 ng
RT: 12.975 min Scan# 1
Delta R.T. 0.001 min
Lab File: BM041165.D
Acq: 28 Jul 2023 14:38

Tgt Ion:196 Resp: 79158

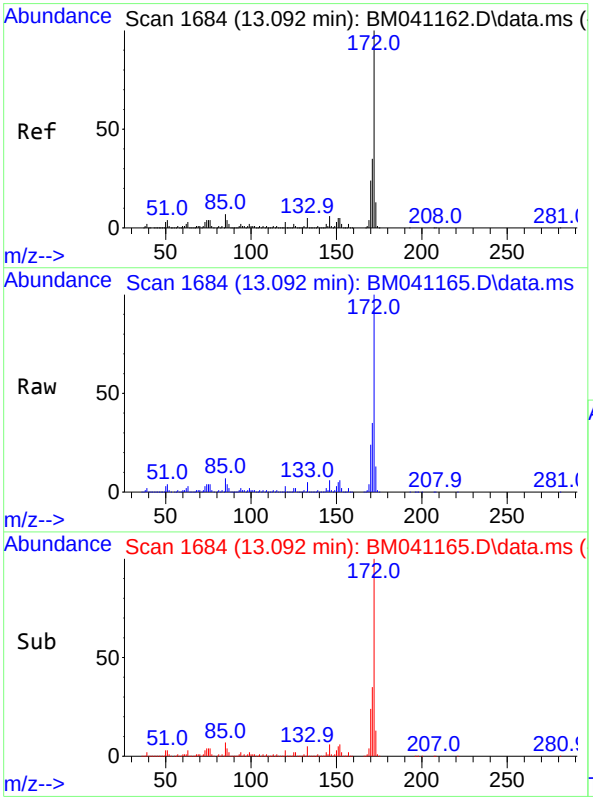
Ion	Ratio	Lower	Upper
196	100		
198	95.8	78.2	117.4
97	53.0	42.7	64.1
132	26.8	21.6	32.4



Instrument :
BNA_M
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

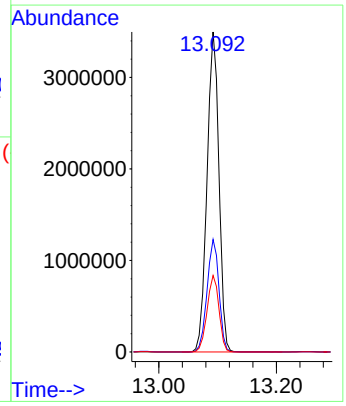
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

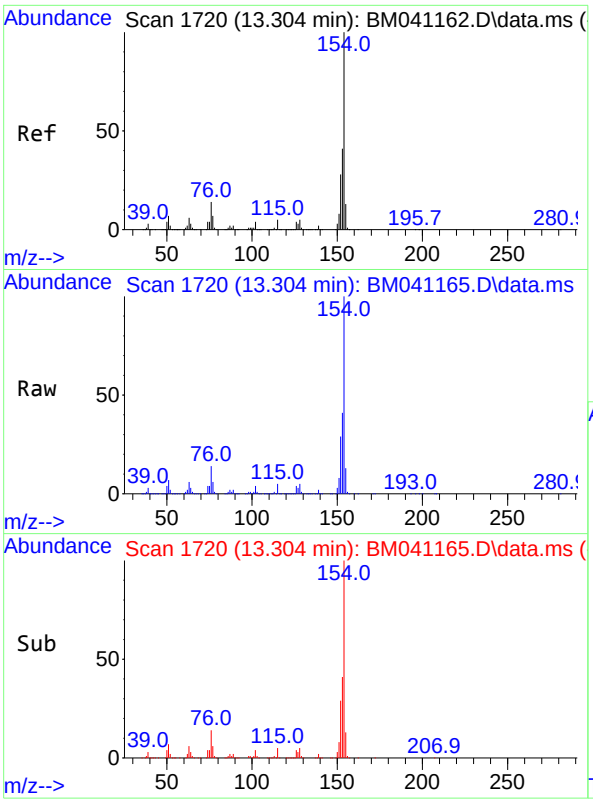


#45
2-Fluorobiphenyl
Concen: 161.398 ng
RT: 13.092 min Scan# 1684
Delta R.T. 0.000 min
Lab File: BM041165.D
Acq: 28 Jul 2023 14:38

Tgt Ion:172 Resp: 4915960

Ion	Ratio	Lower	Upper
172	100		
171	35.2	28.1	42.1
170	23.9	18.9	28.3

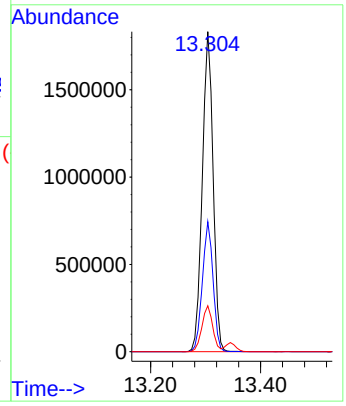




#46
1,1'-Biphenyl
Concen: 80.400 ng
RT: 13.304 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM041165.D
Acq: 28 Jul 2023 14:38

Tgt Ion:154 Resp: 250788

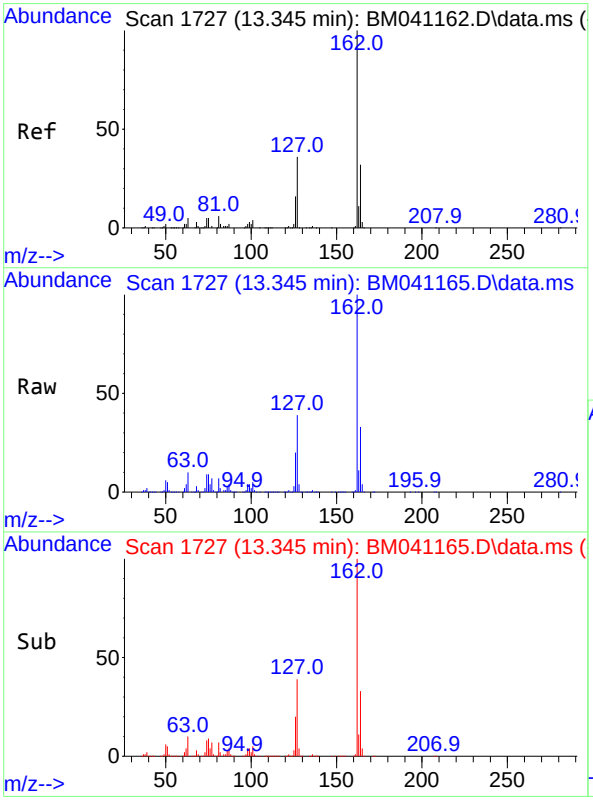
Ion	Ratio	Lower	Upper
154	100		
153	40.6	20.5	60.5
76	14.4	0.0	34.1



Instrument :
BNA_M
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

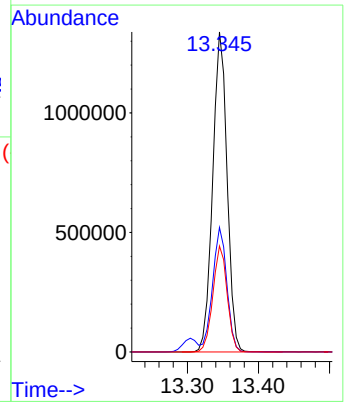
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

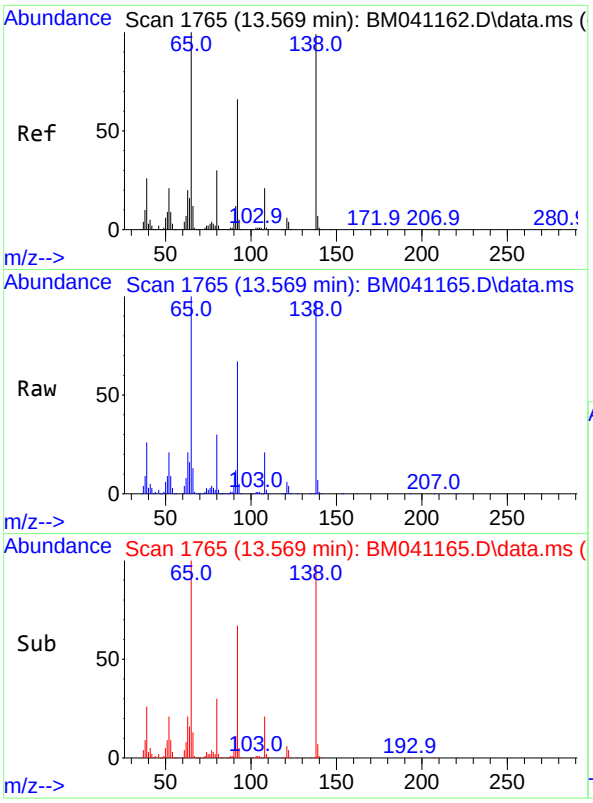


#47
2-Chloronaphthalene
Concen: 80.993 ng
RT: 13.345 min Scan# 1727
Delta R.T. 0.000 min
Lab File: BM041165.D
Acq: 28 Jul 2023 14:38

Tgt Ion:162 Resp: 1886380

Ion	Ratio	Lower	Upper
162	100		
127	38.9	30.6	45.8
164	33.1	25.6	38.4

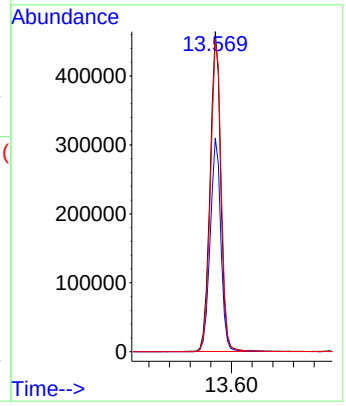




#48
2-Nitroaniline
Concen: 89.268 ng
RT: 13.569 min Scan# 1
Delta R.T. -0.000 min
Lab File: BM041165.D
Acq: 28 Jul 2023 14:38

Tgt Ion: 65 Resp: 66365

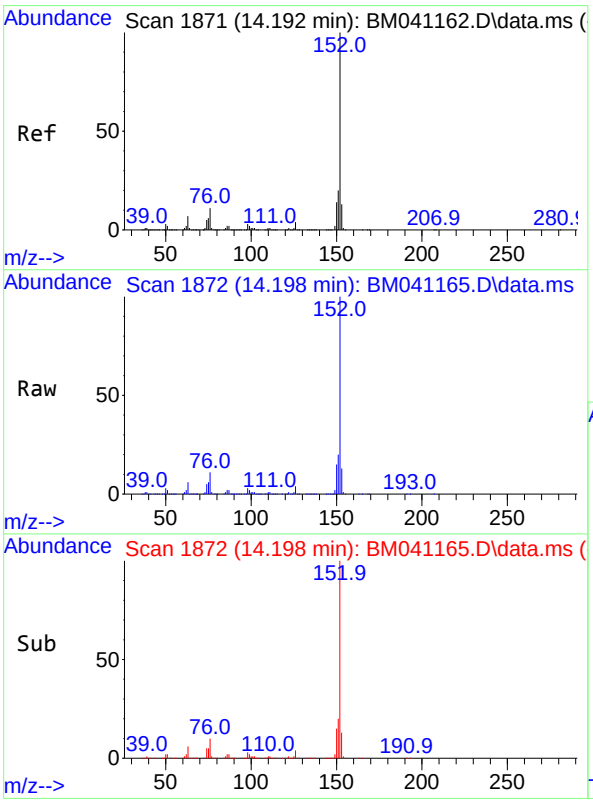
Ion	Ratio	Lower	Upper
65	100		
92	66.8	53.0	79.4
138	97.6	79.1	118.7



Instrument :
BNA_M
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

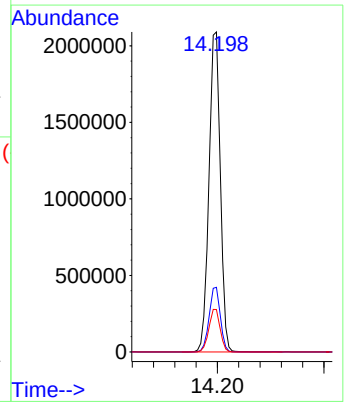
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

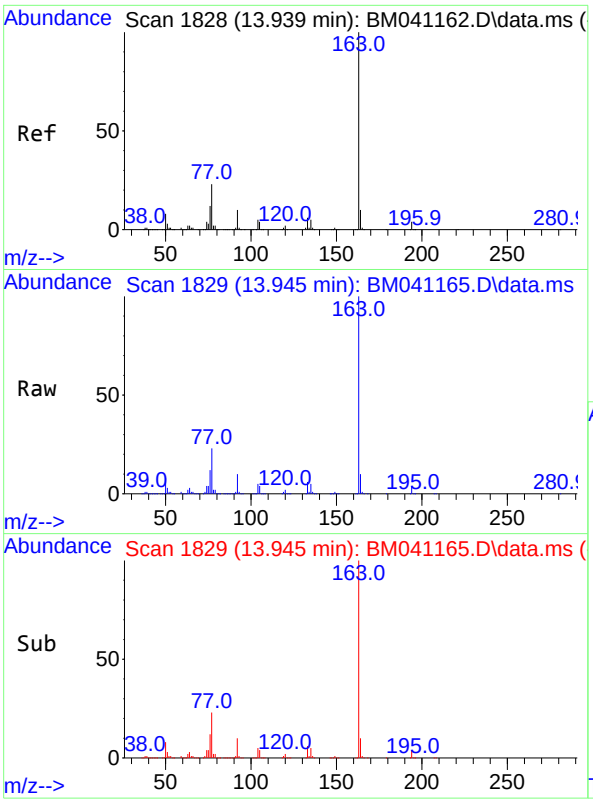


#49
Acenaphthylene
Concen: 82.015 ng
RT: 14.198 min Scan# 1872
Delta R.T. 0.006 min
Lab File: BM041165.D
Acq: 28 Jul 2023 14:38

Tgt Ion:152 Resp: 3083195

Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.1	24.1
153	13.2	10.5	15.7

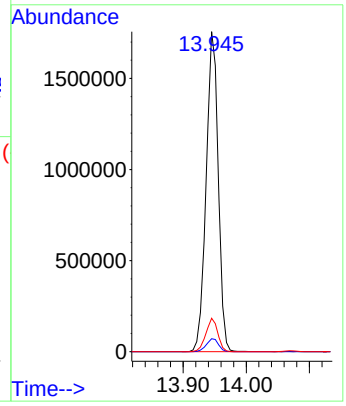




#50
Dimethylphthalate
Concen: 80.716 ng
RT: 13.945 min Scan# 1
Delta R.T. 0.006 min
Lab File: BM041165.D
Acq: 28 Jul 2023 14:38

Tgt Ion:163 Resp: 233615

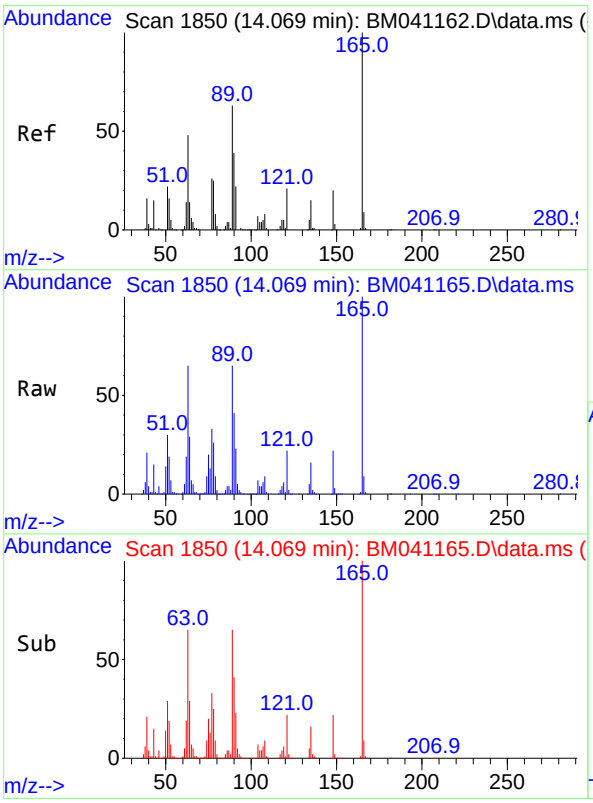
Ion	Ratio	Lower	Upper
163	100		
194	4.1	3.3	4.9
164	10.4	8.3	12.5



Instrument :
BNA_M
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

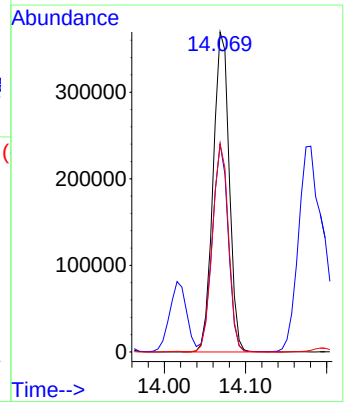
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

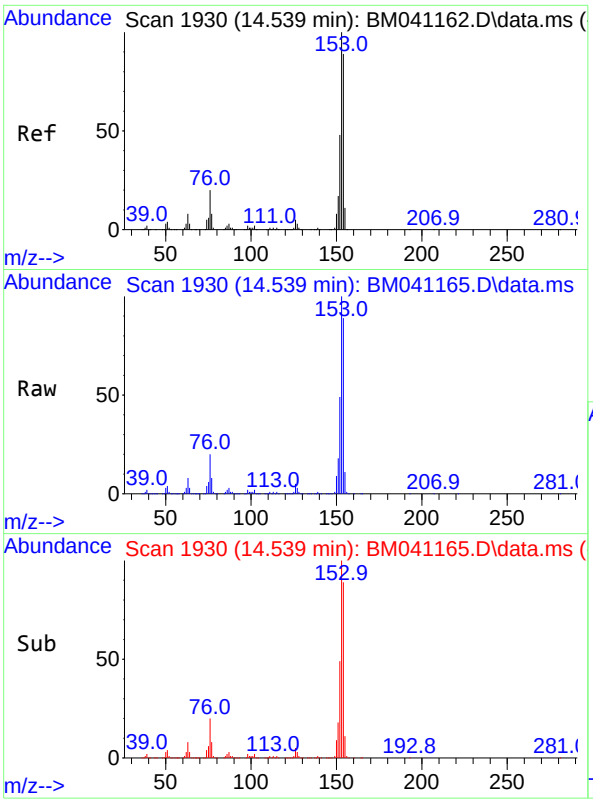


#51
2,6-Dinitrotoluene
Concen: 84.688 ng
RT: 14.069 min Scan# 1850
Delta R.T. -0.000 min
Lab File: BM041165.D
Acq: 28 Jul 2023 14:38

Tgt Ion:165 Resp: 507874

Ion	Ratio	Lower	Upper
165	100		
63	65.0	50.9	76.3
89	65.0	50.6	76.0

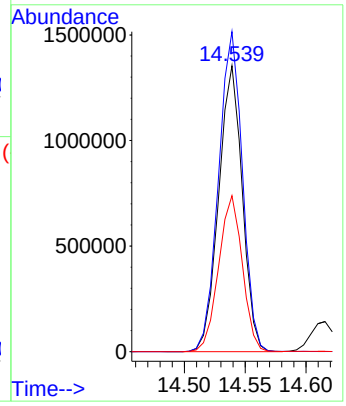




#52
Acenaphthene
Concen: 80.729 ng
RT: 14.539 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM041165.D
Acq: 28 Jul 2023 14:38

Tgt Ion:154 Resp: 182827

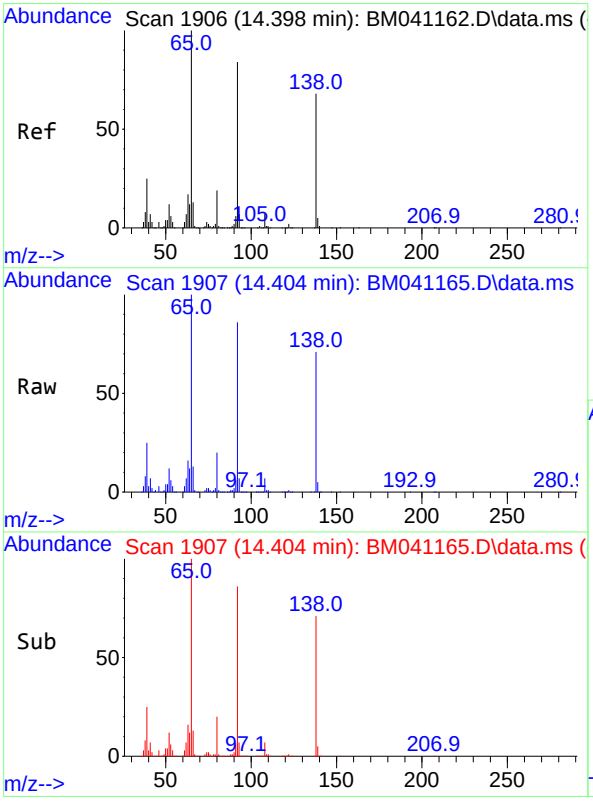
Ion	Ratio	Lower	Upper
154	100		
153	111.9	90.2	135.4
152	54.6	43.4	65.0



Instrument :
BNA_M
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

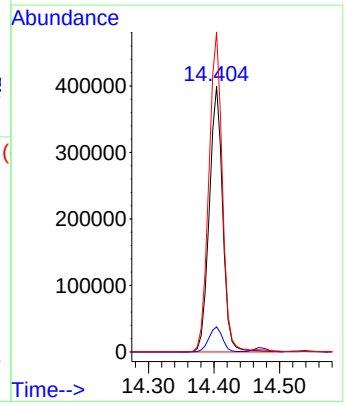
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

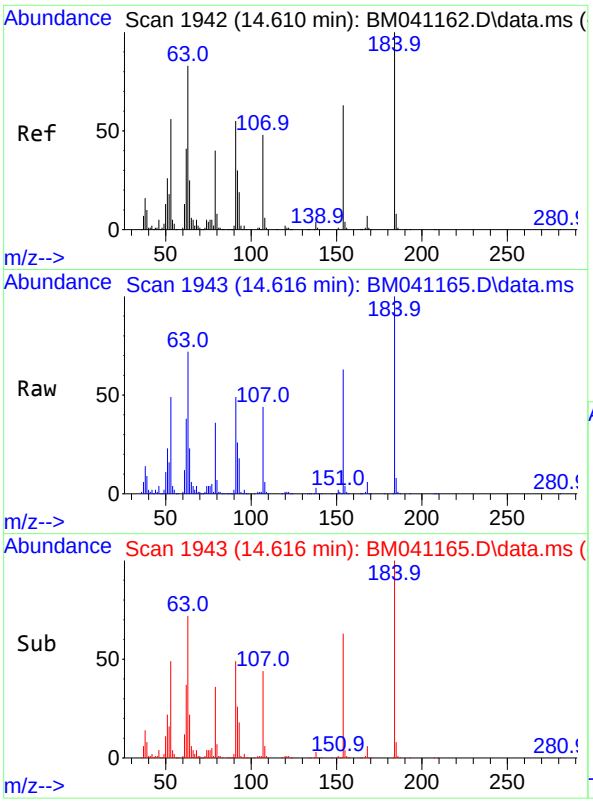


#53
3-Nitroaniline
Concen: 79.898 ng
RT: 14.404 min Scan# 1907
Delta R.T. 0.006 min
Lab File: BM041165.D
Acq: 28 Jul 2023 14:38

Tgt Ion:138 Resp: 567013

Ion	Ratio	Lower	Upper
138	100		
108	9.4	7.6	11.4
92	120.4	98.9	148.3

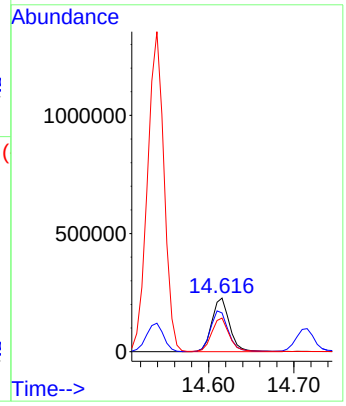




#54
2,4-Dinitrophenol
Concen: 80.408 ng
RT: 14.616 min Scan# 1
Delta R.T. 0.006 min
Lab File: BM041165.D
Acq: 28 Jul 2023 14:38

Tgt Ion:184 Resp: 32576

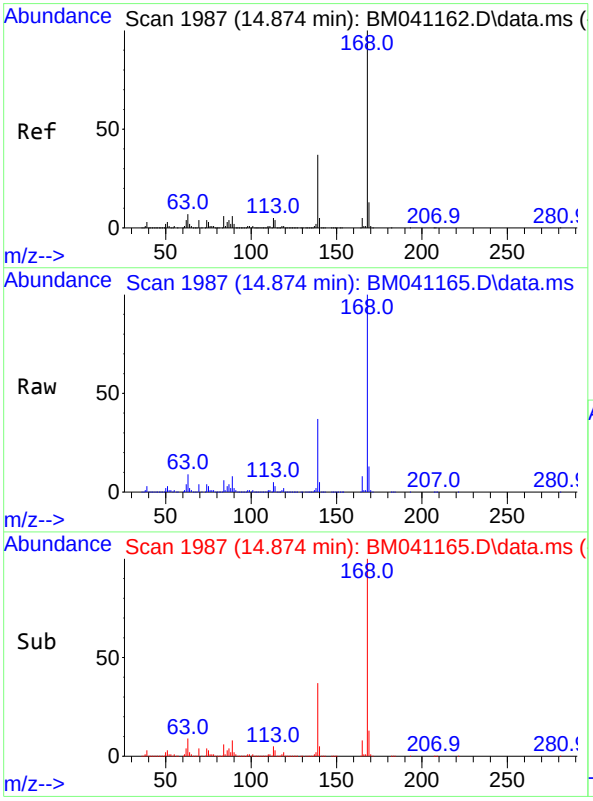
Ion	Ratio	Lower	Upper
184	100		
63	72.1	66.5	99.7
154	62.7	52.8	79.2



Instrument :
BNA_M
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

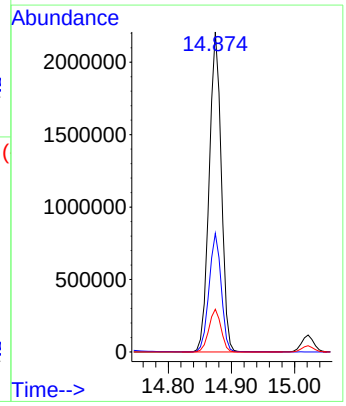
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

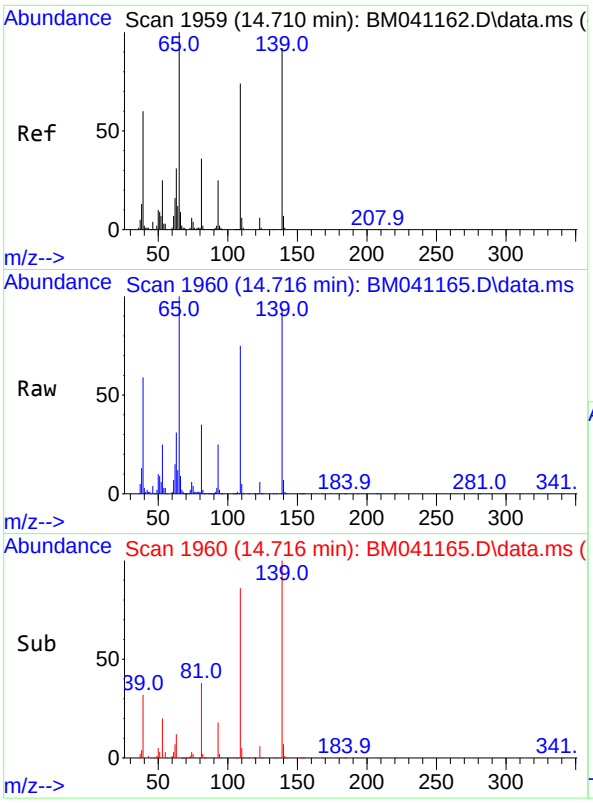


#55
Dibenzofuran
Concen: 79.761 ng
RT: 14.874 min Scan# 1987
Delta R.T. 0.000 min
Lab File: BM041165.D
Acq: 28 Jul 2023 14:38

Tgt Ion:168 Resp: 2947121

Ion	Ratio	Lower	Upper
168	100		
139	37.1	29.8	44.6
169	13.3	10.5	15.7

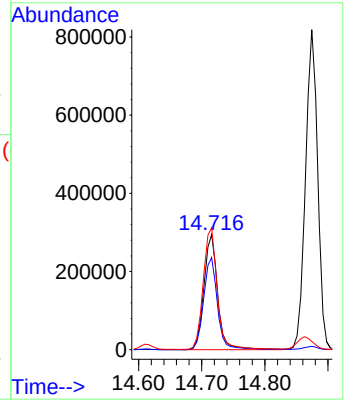




#56
4-Nitrophenol
Concen: 88.935 ng
RT: 14.716 min Scan# 1
Delta R.T. 0.006 min
Lab File: BM041165.D
Acq: 28 Jul 2023 14:38

Tgt Ion:139 Resp: 44449

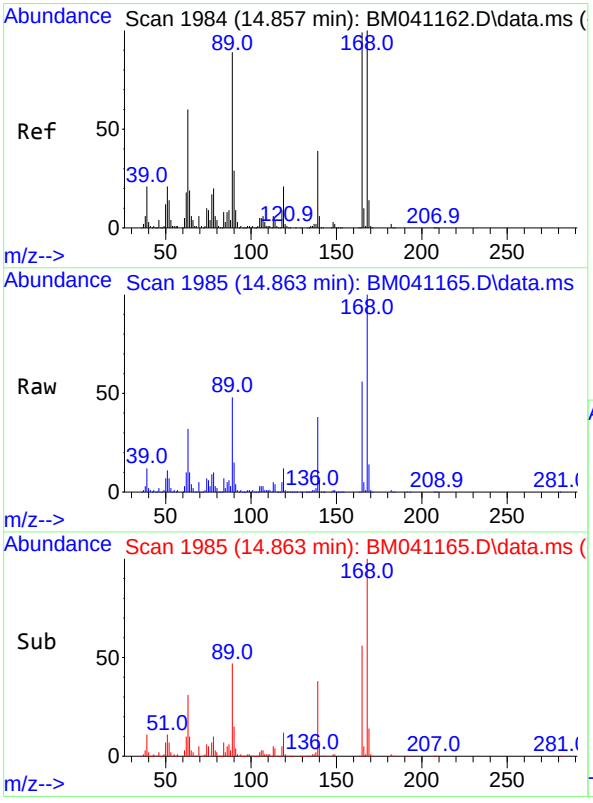
Ion	Ratio	Lower	Upper
139	100		
109	80.1	61.2	101.2
65	106.1	89.5	129.5



Instrument :
BNA_M
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

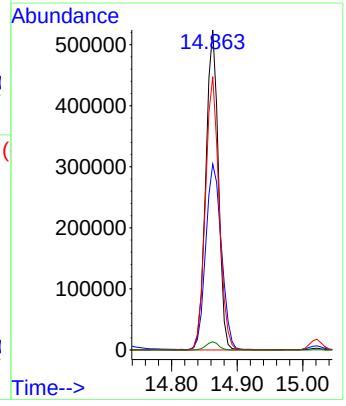
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

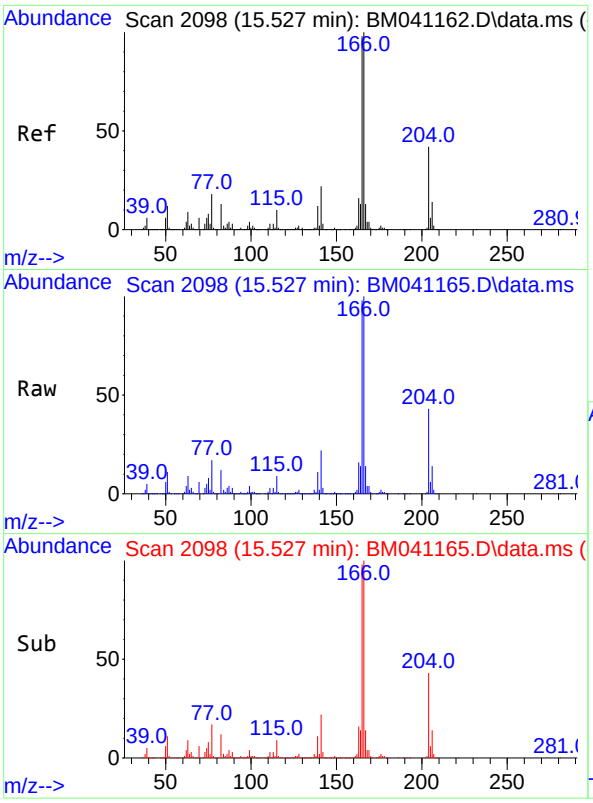


#57
2,4-Dinitrotoluene
Concen: 79.747 ng
RT: 14.863 min Scan# 1985
Delta R.T. 0.006 min
Lab File: BM041165.D
Acq: 28 Jul 2023 14:38

Tgt Ion:165 Resp: 698977

Ion	Ratio	Lower	Upper
165	100		
63	58.1	48.3	72.5
89	85.4	71.8	107.8
182	2.6	2.0	3.0

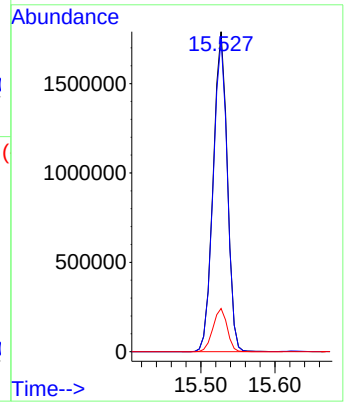




#58
Fluorene
Concen: 81.322 ng
RT: 15.527 min Scan# 2
Delta R.T. 0.000 min
Lab File: BM041165.D
Acq: 28 Jul 2023 14:38

Tgt Ion:166 Resp: 237046

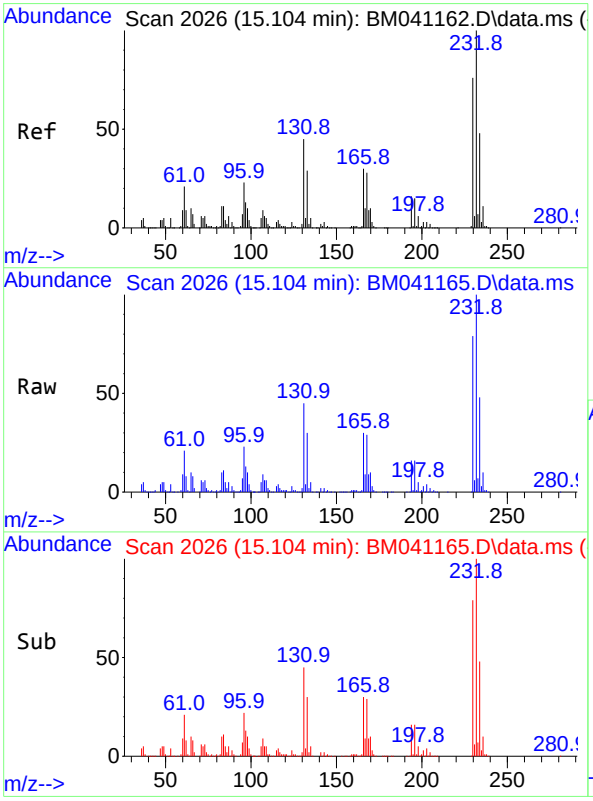
Ion	Ratio	Lower	Upper
166	100		
165	97.7	78.2	117.4
167	13.5	10.6	16.0



Instrument :
BNA_M
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

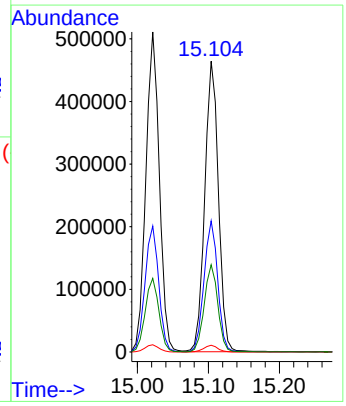
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

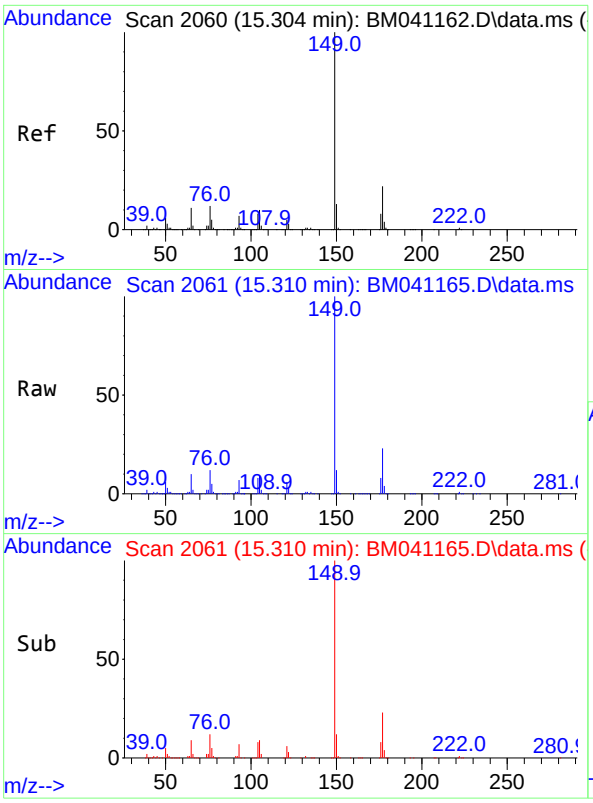


#59
2,3,4,6-Tetrachlorophenol
Concen: 82.952 ng
RT: 15.104 min Scan# 2026
Delta R.T. -0.000 min
Lab File: BM041165.D
Acq: 28 Jul 2023 14:38

Tgt Ion:232 Resp: 622578

Ion	Ratio	Lower	Upper
232	100		
131	45.2	36.9	55.3
130	2.4	2.0	3.0
166	30.1	24.2	36.2

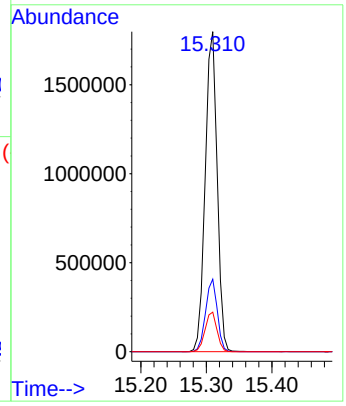




#60
Diethylphthalate
Concen: 81.550 ng
RT: 15.310 min Scan# 2
Delta R.T. 0.006 min
Lab File: BM041165.D
Acq: 28 Jul 2023 14:38

Tgt Ion:149 Resp: 228251

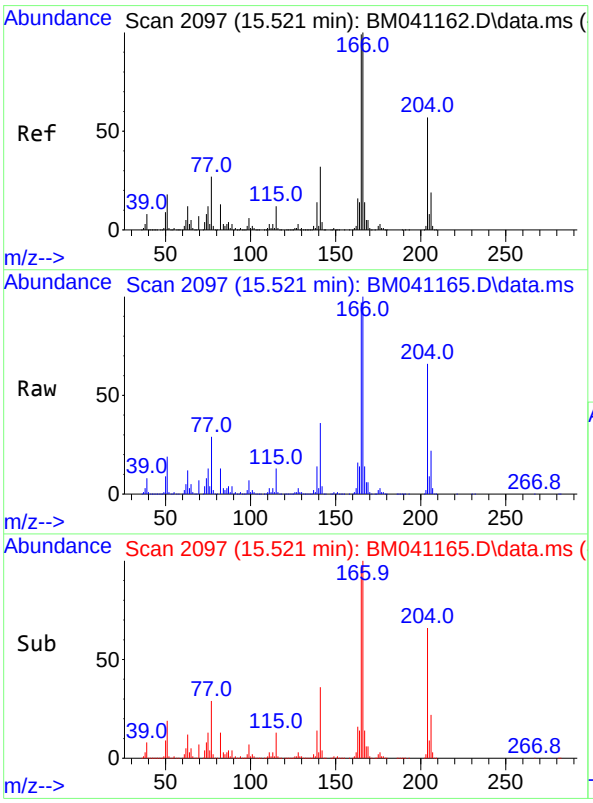
Ion	Ratio	Lower	Upper
149	100		
177	22.6	17.5	26.3
150	12.3	10.1	15.1



Instrument :
BNA_M
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

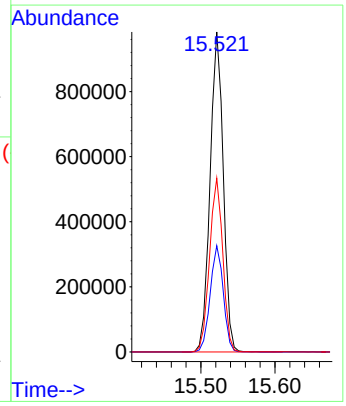
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

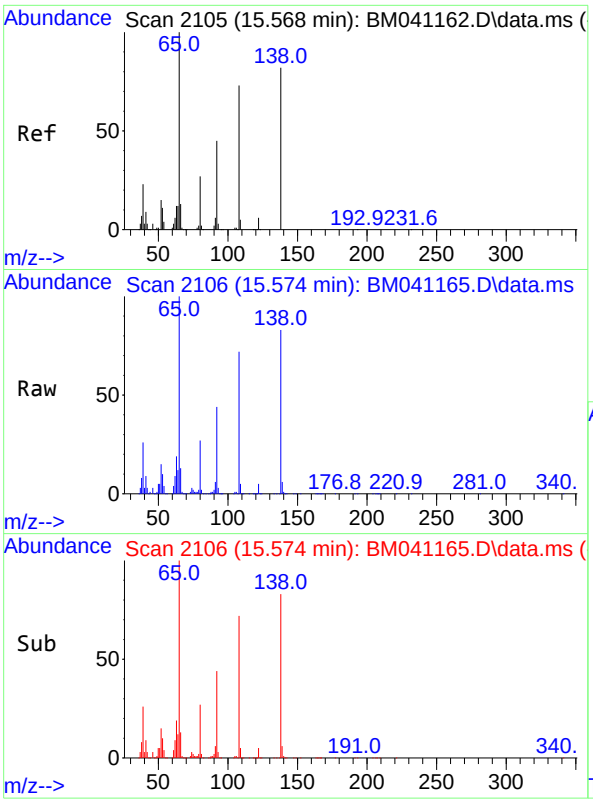


#61
4-Chlorophenyl-phenylether
Concen: 83.081 ng
RT: 15.521 min Scan# 2097
Delta R.T. 0.000 min
Lab File: BM041165.D
Acq: 28 Jul 2023 14:38

Tgt Ion:204 Resp: 1213557

Ion	Ratio	Lower	Upper
204	100		
206	33.2	26.5	39.7
141	54.3	44.8	67.2

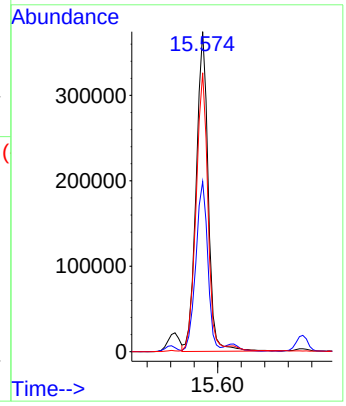




#62
4-Nitroaniline
Concen: 80.101 ng
RT: 15.574 min Scan# 2
Delta R.T. 0.006 min
Lab File: BM041165.D
Acq: 28 Jul 2023 14:38

Tgt Ion:138 Resp: 53175

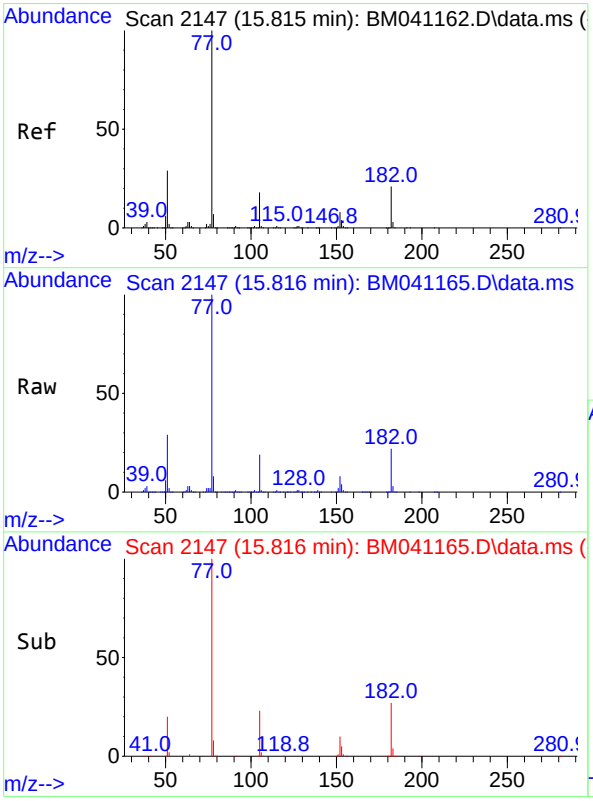
Ion	Ratio	Lower	Upper
138	100		
92	53.1	35.1	75.1
108	87.1	67.8	107.8



Instrument :
BNA_M
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

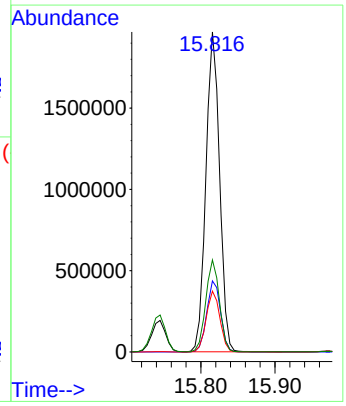
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

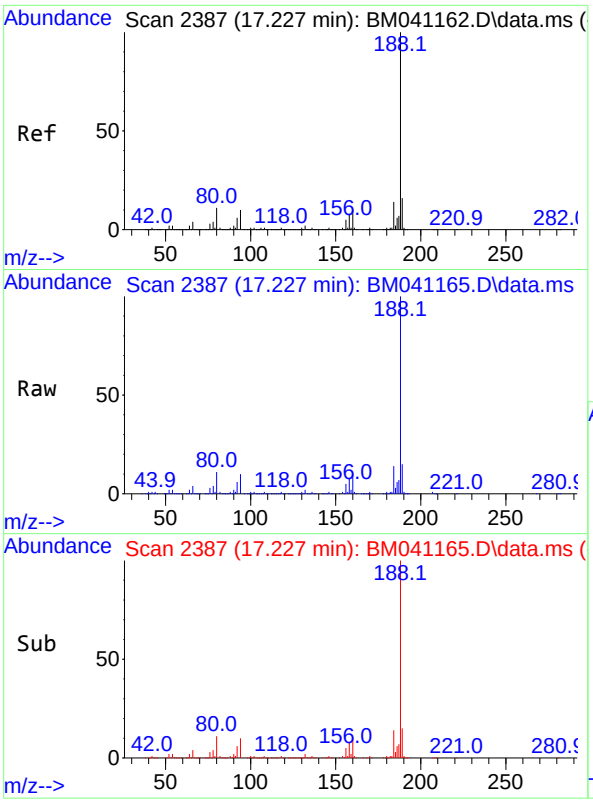


#63
Azobenzene
Concen: 82.269 ng
RT: 15.816 min Scan# 2147
Delta R.T. 0.001 min
Lab File: BM041165.D
Acq: 28 Jul 2023 14:38

Tgt Ion: 77 Resp: 2522287

Ion	Ratio	Lower	Upper
77	100		
182	22.2	1.3	41.3
105	19.0	0.0	38.5
51	28.8	9.1	49.1

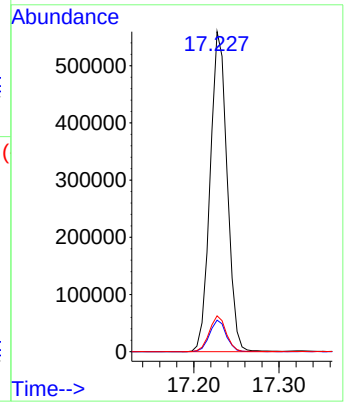




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.227 min Scan# 2
Delta R.T. 0.000 min
Lab File: BM041165.D
Acq: 28 Jul 2023 14:38

Tgt Ion:188 Resp: 77486

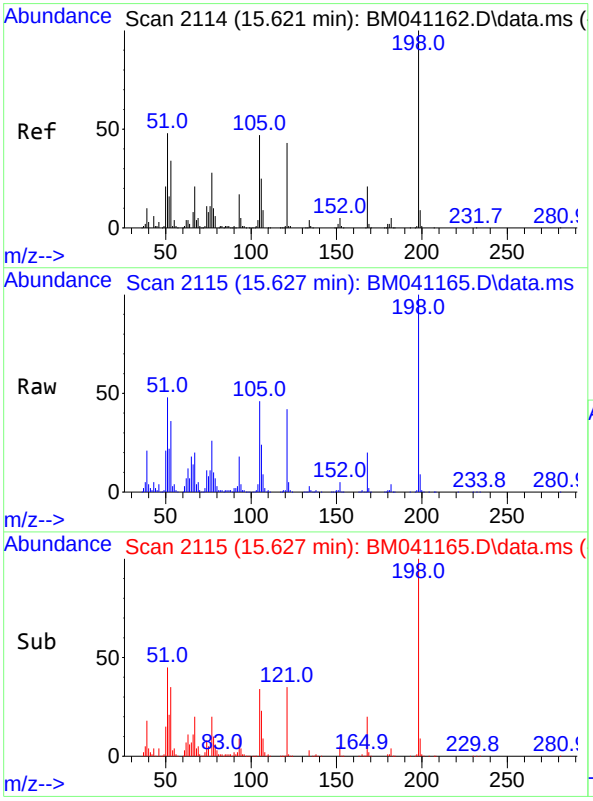
Ion	Ratio	Lower	Upper
188	100		
94	9.9	8.2	12.2
80	11.2	8.6	13.0



Instrument :
BNA_M
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

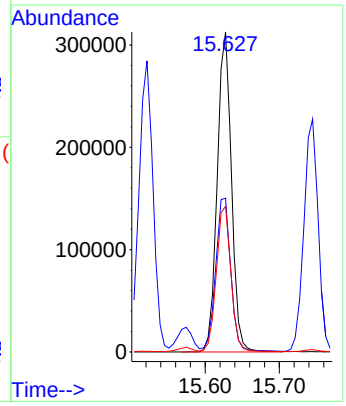
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

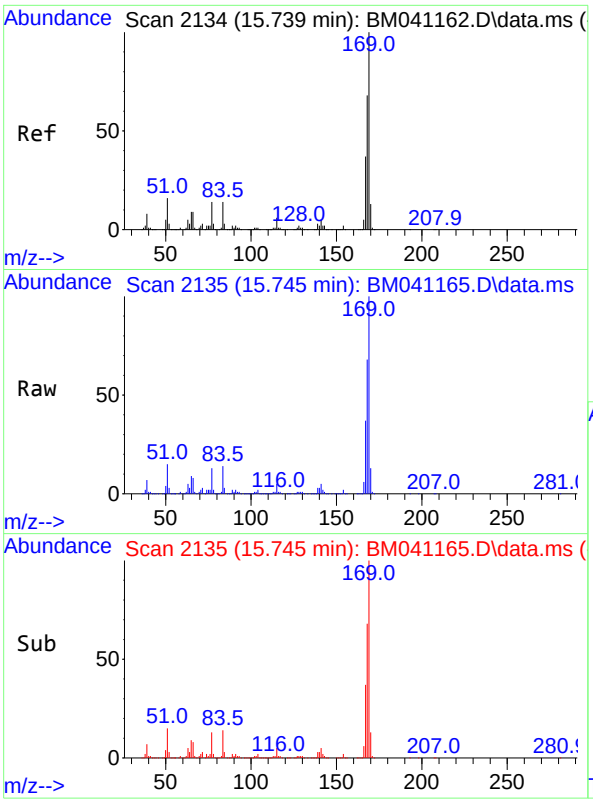


#65
4,6-Dinitro-2-methylphenol
Concen: 88.826 ng
RT: 15.627 min Scan# 2115
Delta R.T. 0.006 min
Lab File: BM041165.D
Acq: 28 Jul 2023 14:38

Tgt Ion:198 Resp: 416955

Ion	Ratio	Lower	Upper
198	100		
51	48.0	31.7	71.7
105	45.6	27.8	67.8

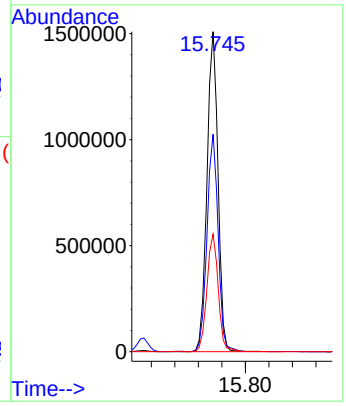




#66
n-Nitrosodiphenylamine
Concen: 81.501 ng
RT: 15.745 min Scan# 2
Delta R.T. 0.006 min
Lab File: BM041165.D
Acq: 28 Jul 2023 14:38

Tgt Ion:169 Resp: 196407

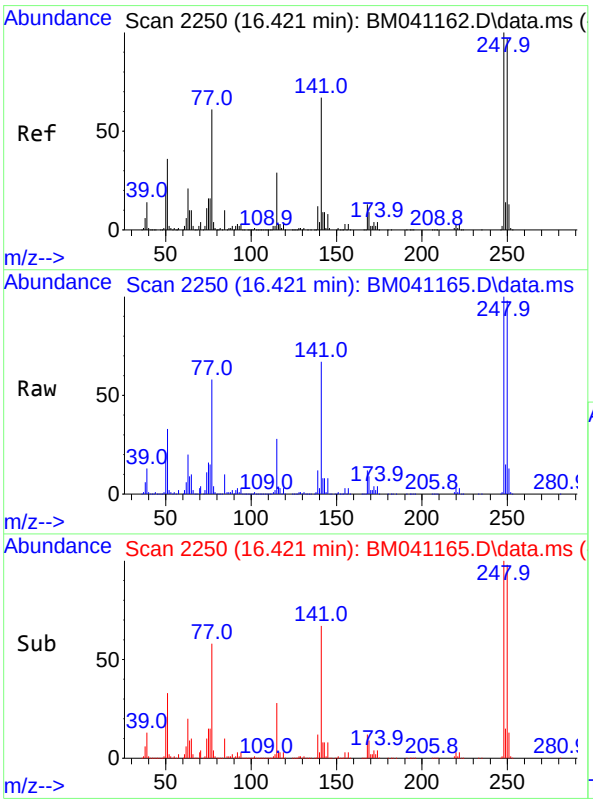
Ion	Ratio	Lower	Upper
169	100		
168	68.0	54.6	81.8
167	36.7	29.9	44.9



Instrument :
BNA_M
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

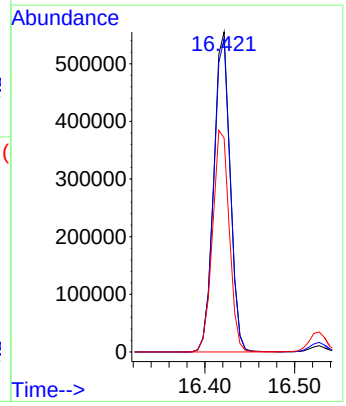
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

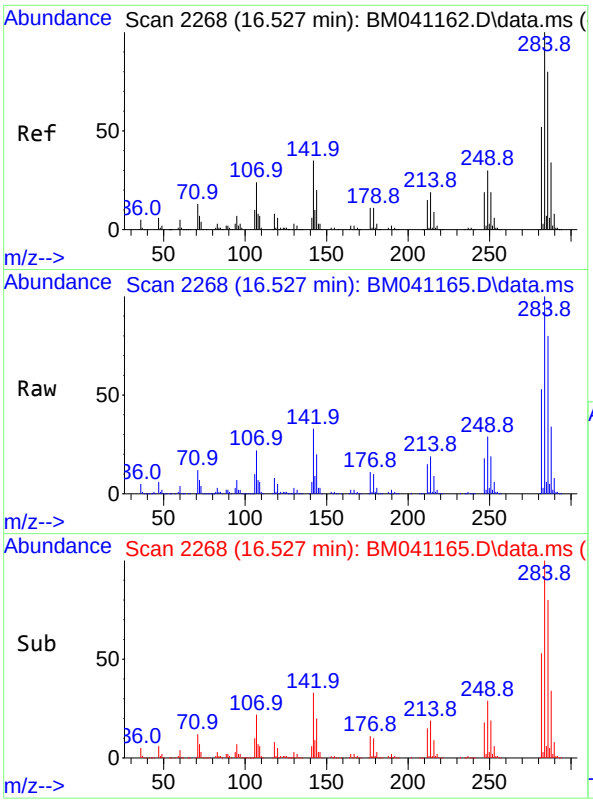


#67
4-Bromophenyl-phenylether
Concen: 83.332 ng
RT: 16.421 min Scan# 2250
Delta R.T. 0.000 min
Lab File: BM041165.D
Acq: 28 Jul 2023 14:38

Tgt Ion:248 Resp: 707967

Ion	Ratio	Lower	Upper
248	100		
250	97.9	78.0	117.0
141	66.8	53.8	80.8

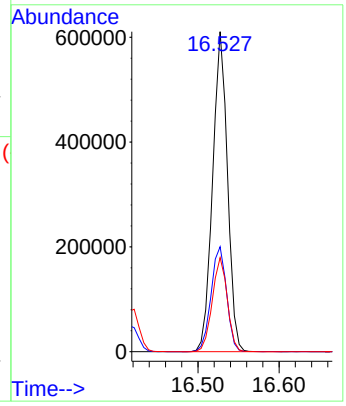




#68
Hexachlorobenzene
Concen: 81.915 ng
RT: 16.527 min Scan# 2
Delta R.T. 0.000 min
Lab File: BM041165.D
Acq: 28 Jul 2023 14:38

Tgt Ion:284 Resp: 77384

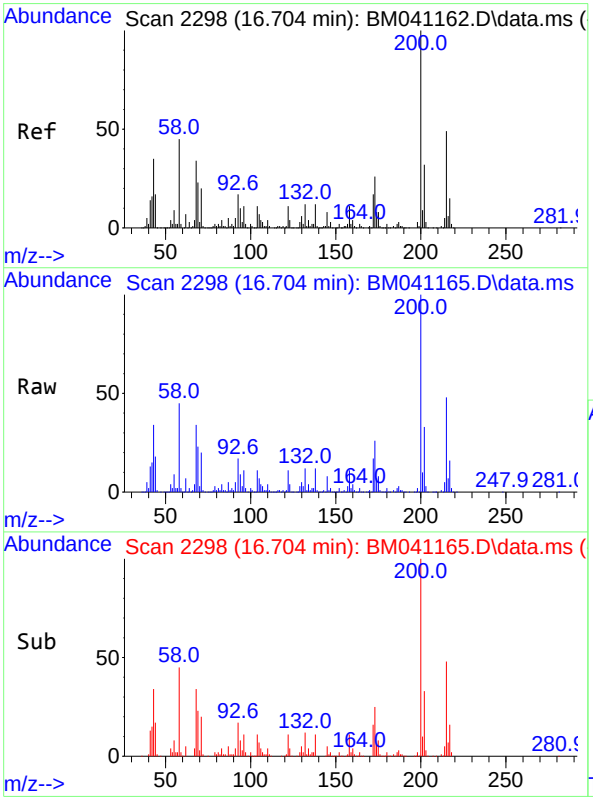
Ion	Ratio	Lower	Upper
284	100		
142	32.8	28.0	42.0
249	29.4	23.7	35.5



Instrument :
BNA_M
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

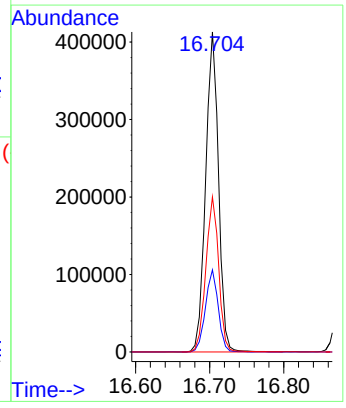
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

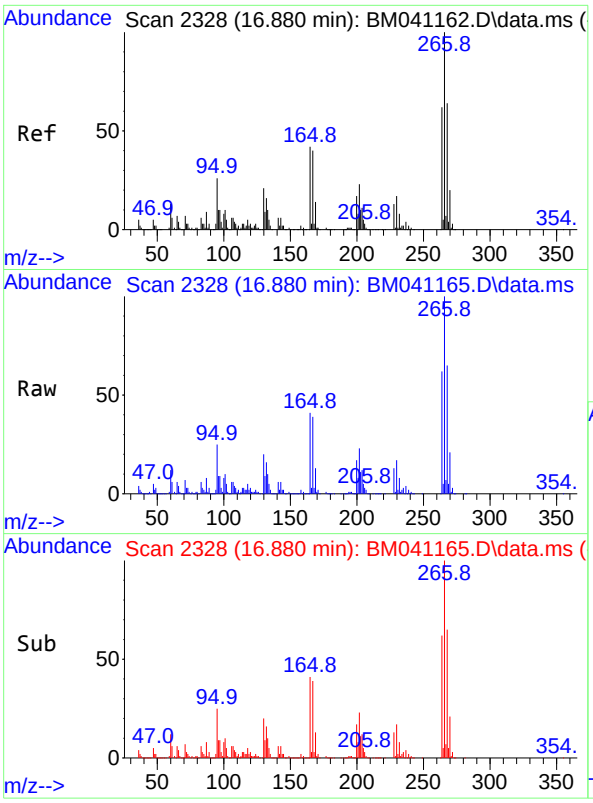


#69
Atrazine
Concen: 78.794 ng
RT: 16.704 min Scan# 2298
Delta R.T. 0.000 min
Lab File: BM041165.D
Acq: 28 Jul 2023 14:38

Tgt Ion:200 Resp: 498659

Ion	Ratio	Lower	Upper
200	100		
173	25.7	5.6	45.6
215	48.5	28.5	68.5

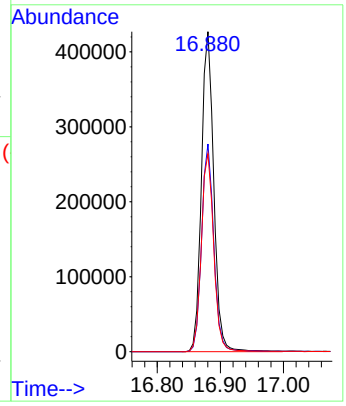




#70
Pentachlorophenol
Concen: 88.502 ng
RT: 16.880 min Scan# 2
Delta R.T. 0.000 min
Lab File: BM041165.D
Acq: 28 Jul 2023 14:38

Tgt Ion:266 Resp: 57894

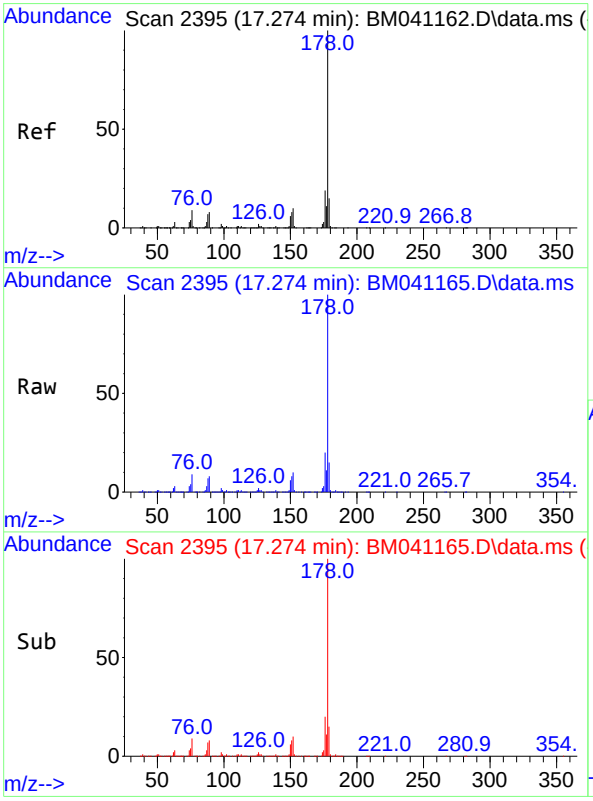
Ion	Ratio	Lower	Upper
266	100		
268	64.9	51.0	76.6
264	61.9	49.4	74.2



Instrument :
BNA_M
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

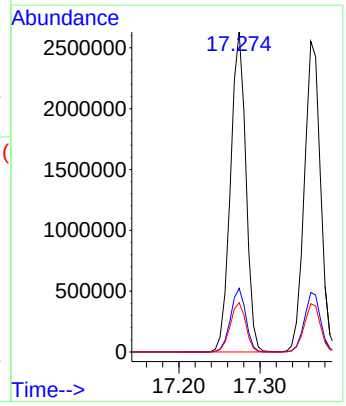
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

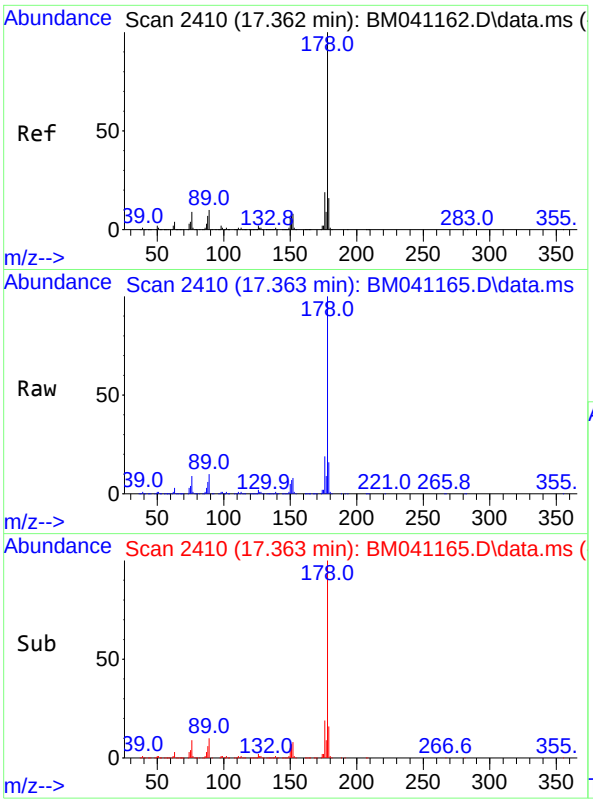


#71
Phenanthrene
Concen: 80.584 ng
RT: 17.274 min Scan# 2395
Delta R.T. 0.000 min
Lab File: BM041165.D
Acq: 28 Jul 2023 14:38

Tgt Ion:178 Resp: 3469275

Ion	Ratio	Lower	Upper
178	100		
176	19.9	15.6	23.4
179	15.4	12.1	18.1

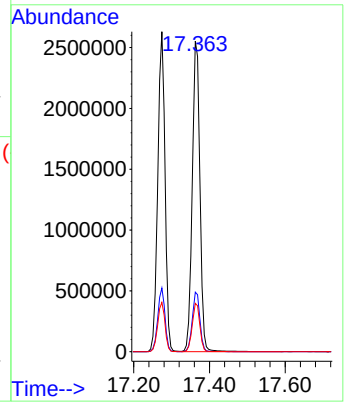




#72
Anthracene
Concen: 83.547 ng
RT: 17.363 min Scan# 24
Delta R.T. 0.000 min
Lab File: BM041165.D
Acq: 28 Jul 2023 14:38

Tgt Ion:178 Resp: 355735

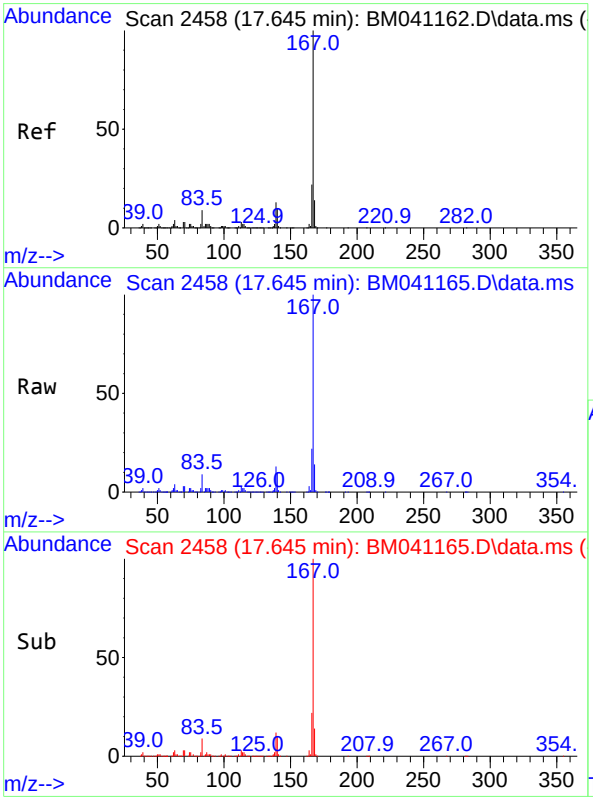
Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.2	22.8
179	15.5	12.4	18.6



Instrument :
BNA_M
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

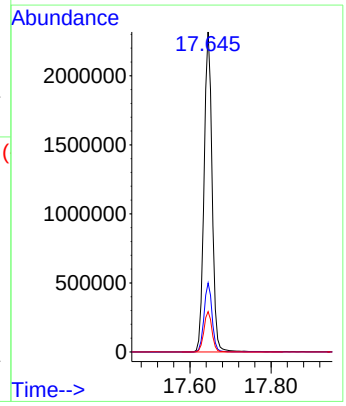
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

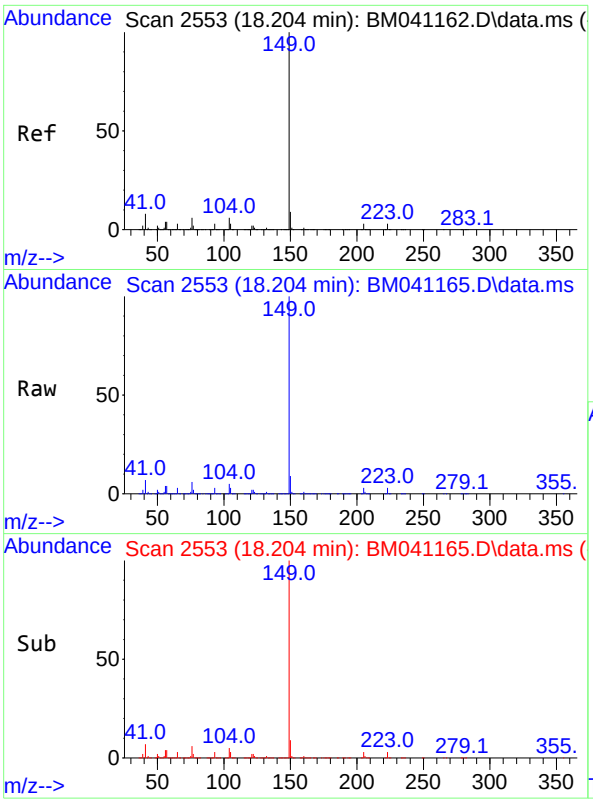


#73
Carbazole
Concen: 83.271 ng
RT: 17.645 min Scan# 2458
Delta R.T. -0.000 min
Lab File: BM041165.D
Acq: 28 Jul 2023 14:38

Tgt Ion:167 Resp: 3209097

Ion	Ratio	Lower	Upper
167	100		
166	21.6	17.3	25.9
139	12.6	10.3	15.5

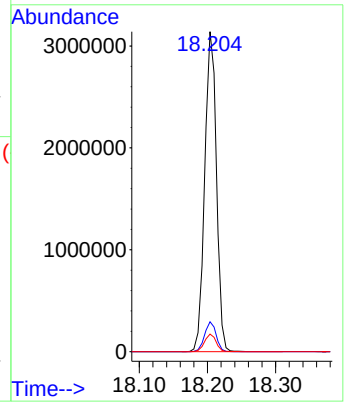




#74
Di-n-butylphthalate
Concen: 86.261 ng
RT: 18.204 min Scan# 2
Delta R.T. 0.000 min
Lab File: BM041165.D
Acq: 28 Jul 2023 14:38

Tgt Ion:149 Resp: 375652

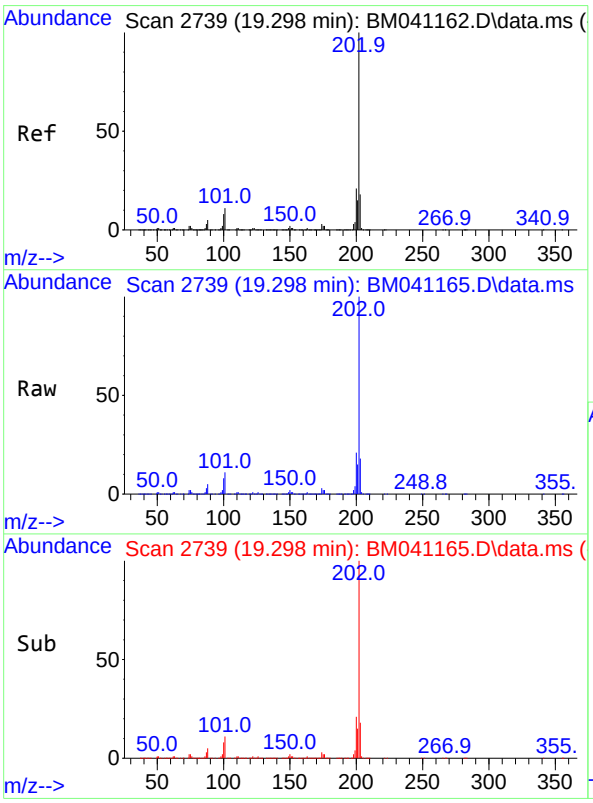
Ion	Ratio	Lower	Upper
149	100		
150	9.4	7.3	10.9
104	5.5	4.5	6.7



Instrument :
BNA_M
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

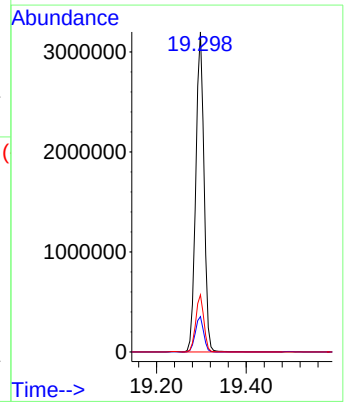
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

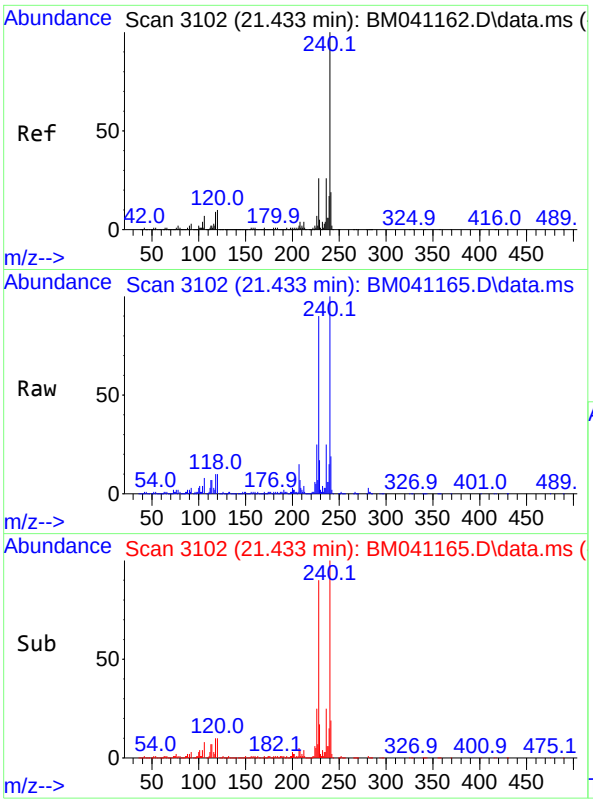


#75
Fluoranthene
Concen: 84.042 ng
RT: 19.298 min Scan# 2739
Delta R.T. 0.000 min
Lab File: BM041165.D
Acq: 28 Jul 2023 14:38

Tgt Ion:202 Resp: 4064920

Ion	Ratio	Lower	Upper
202	100		
101	11.0	0.0	30.8
203	17.8	0.0	37.6

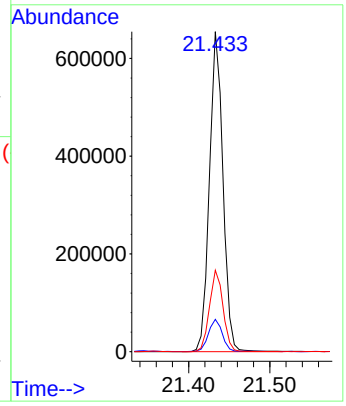




#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.433 min Scan# 3
Delta R.T. 0.000 min
Lab File: BM041165.D
Acq: 28 Jul 2023 14:38

Tgt Ion:240 Resp: 75361

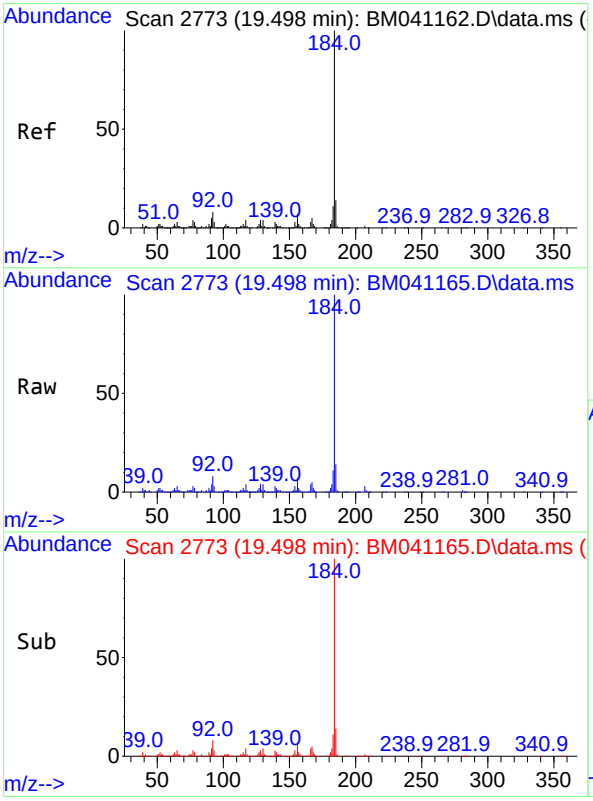
Ion	Ratio	Lower	Upper
240	100		
120	10.1	8.3	12.5
236	25.5	20.6	30.8



Instrument :
BNA_M
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

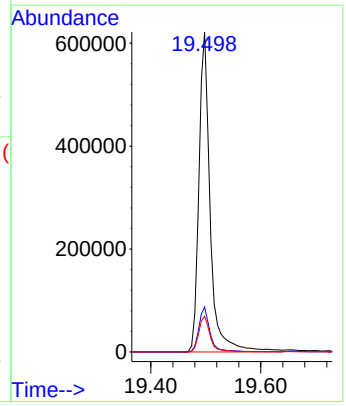
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

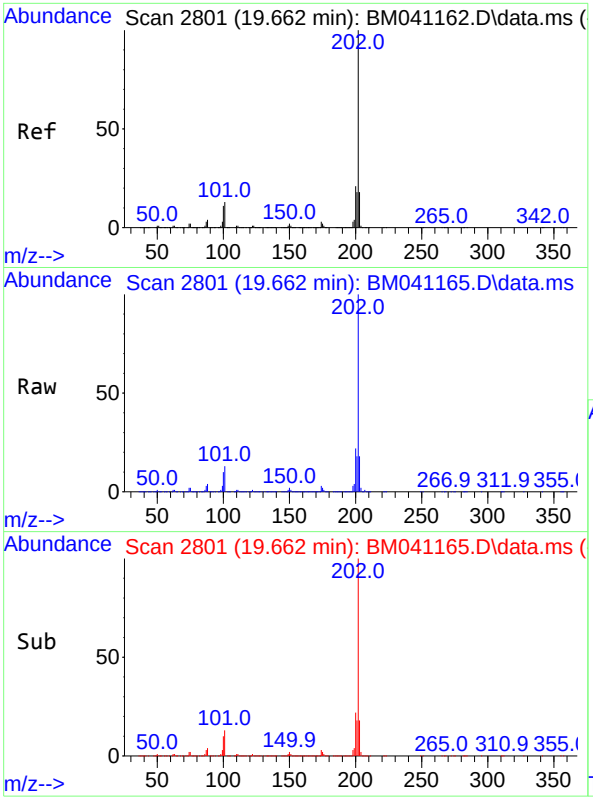


#77
Benzidine
Concen: 85.850 ng
RT: 19.498 min Scan# 2773
Delta R.T. -0.000 min
Lab File: BM041165.D
Acq: 28 Jul 2023 14:38

Tgt Ion:184 Resp: 885865

Ion	Ratio	Lower	Upper
184	100		
185	14.0	11.4	17.0
183	11.1	9.2	13.8

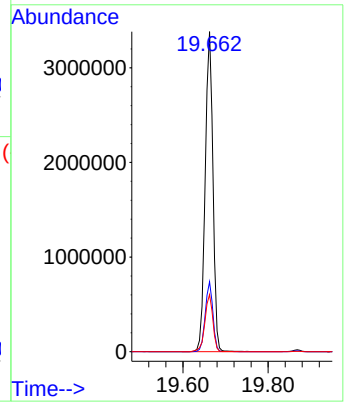




#78
Pyrene
Concen: 80.680 ng
RT: 19.662 min Scan# 2
Delta R.T. 0.000 min
Lab File: BM041165.D
Acq: 28 Jul 2023 14:38

Tgt Ion:202 Resp: 425193

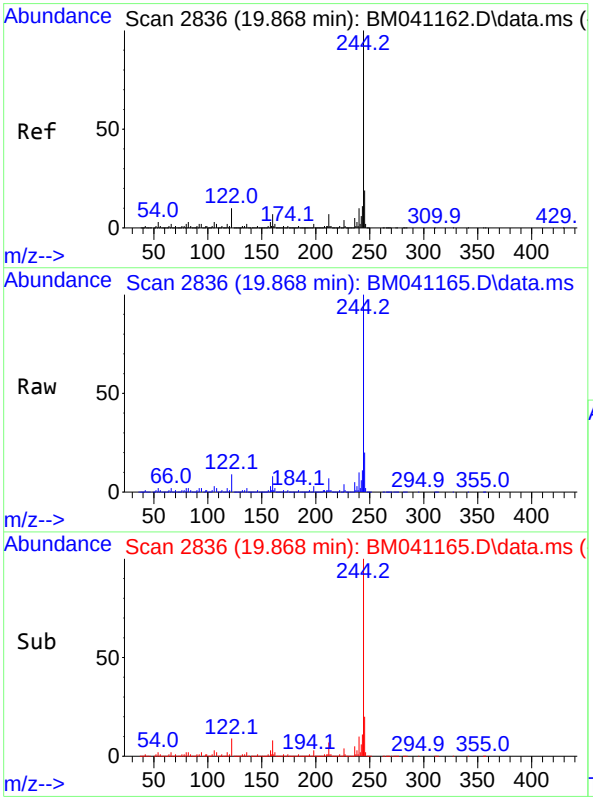
Ion	Ratio	Lower	Upper
202	100		
200	21.9	16.9	25.3
203	17.8	14.1	21.1



Instrument :
BNA_M
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

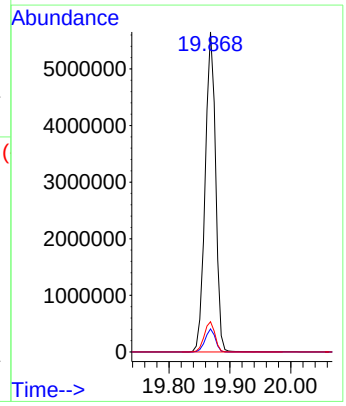
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

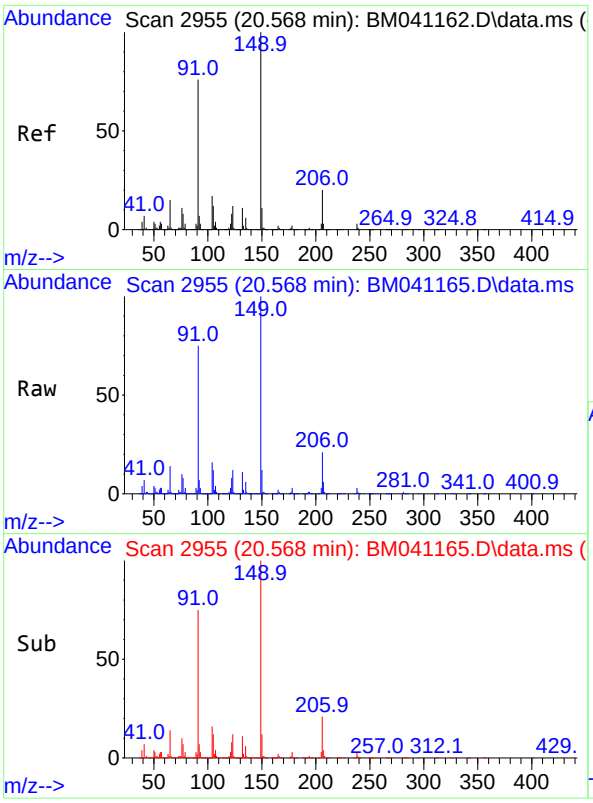


#79
Terphenyl-d14
Concen: 161.224 ng
RT: 19.868 min Scan# 2836
Delta R.T. 0.000 min
Lab File: BM041165.D
Acq: 28 Jul 2023 14:38

Tgt Ion:244 Resp: 6719972

Ion	Ratio	Lower	Upper
244	100		
212	7.2	5.4	8.2
122	9.5	7.8	11.6

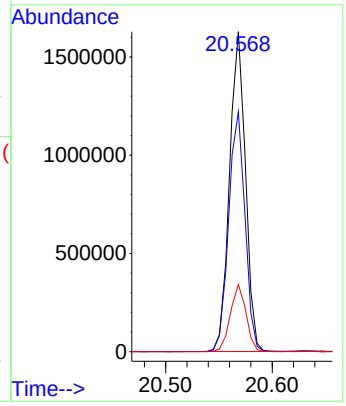




#80
Butylbenzylphthalate
Concen: 87.951 ng
RT: 20.568 min Scan# 2
Delta R.T. 0.000 min
Lab File: BM041165.D
Acq: 28 Jul 2023 14:38

Tgt Ion:149 Resp: 169265

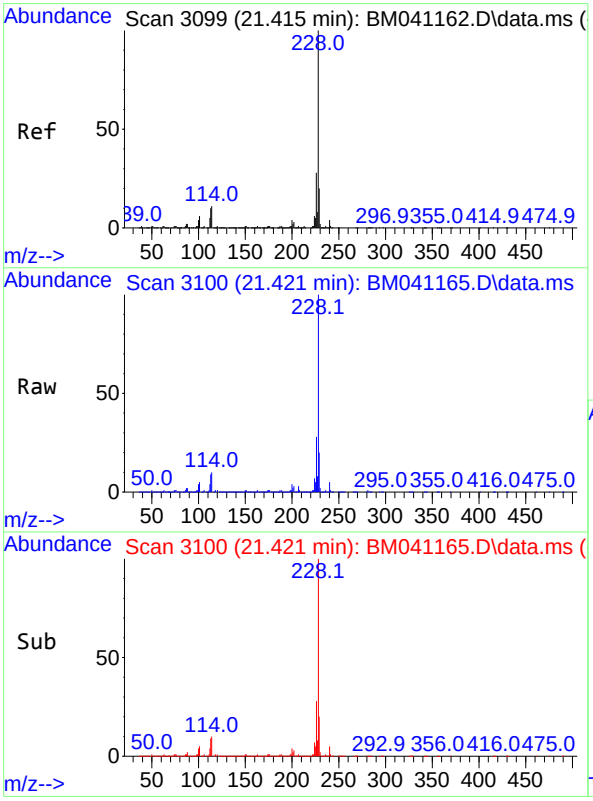
Ion	Ratio	Lower	Upper
149	100		
91	74.9	60.8	91.2
206	21.0	16.4	24.6



Instrument :
BNA_M
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

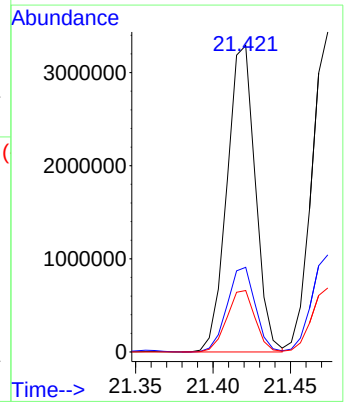
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

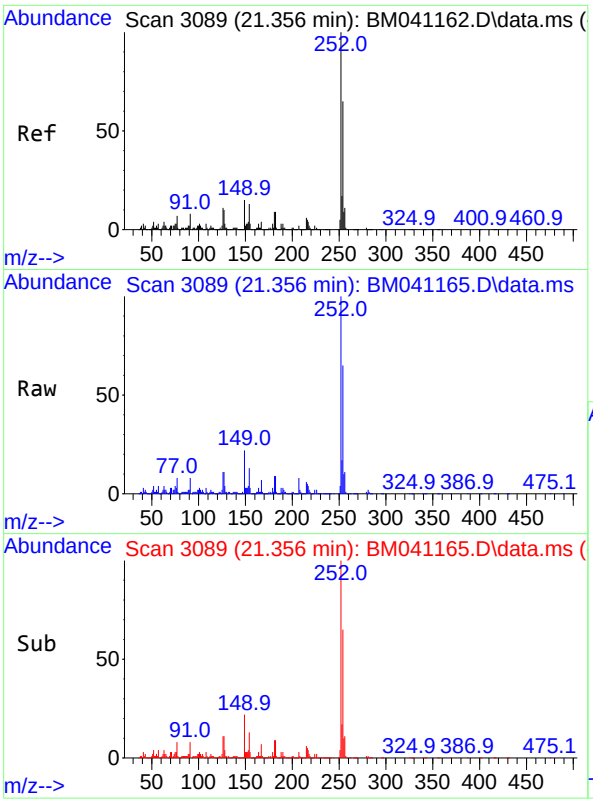


#81
Benzo(a)anthracene
Concen: 81.803 ng
RT: 21.421 min Scan# 3100
Delta R.T. 0.006 min
Lab File: BM041165.D
Acq: 28 Jul 2023 14:38

Tgt Ion:228 Resp: 4179223

Ion	Ratio	Lower	Upper
228	100		
226	27.6	22.4	33.6
229	20.1	15.8	23.8

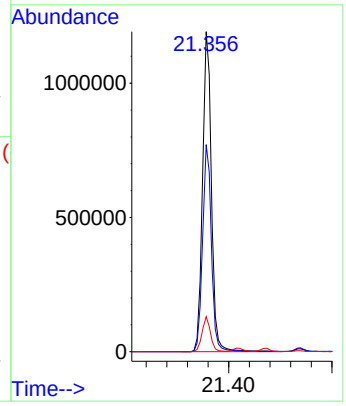




#82
3,3'-Dichlorobenzidine
Concen: 84.931 ng
RT: 21.356 min Scan# 3
Delta R.T. 0.000 min
Lab File: BM041165.D
Acq: 28 Jul 2023 14:38

Tgt Ion:252 Resp: 141587

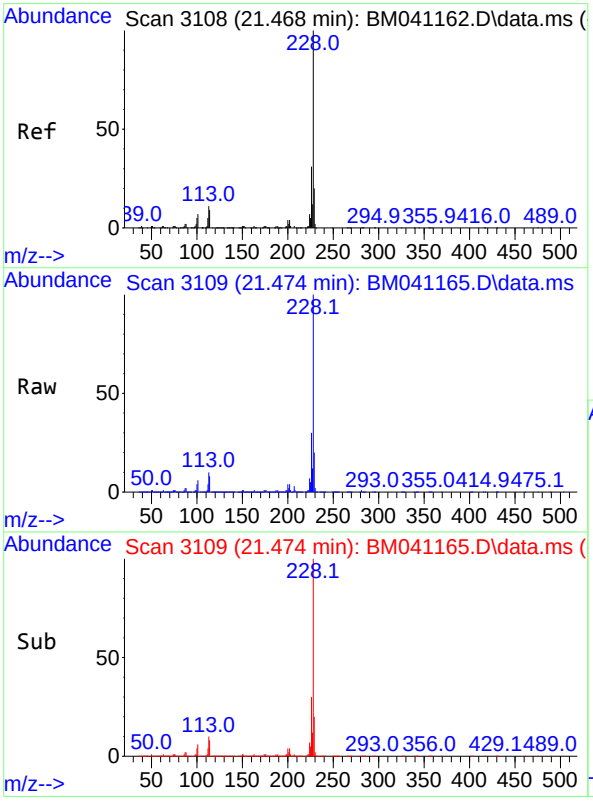
Ion	Ratio	Lower	Upper
252	100		
254	64.7	51.8	77.6
126	11.0	8.6	13.0



Instrument :
BNA_M
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

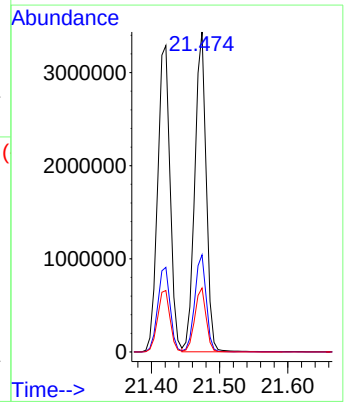
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

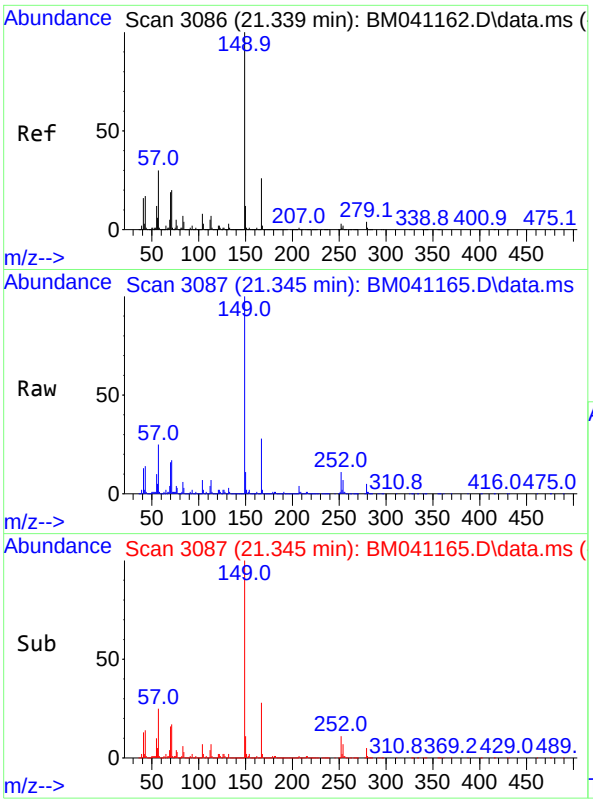


#83
Chrysene
Concen: 80.384 ng
RT: 21.474 min Scan# 3109
Delta R.T. 0.006 min
Lab File: BM041165.D
Acq: 28 Jul 2023 14:38

Tgt Ion:228 Resp: 3972204

Ion	Ratio	Lower	Upper
228	100		
226	30.3	24.5	36.7
229	20.0	15.8	23.8





#84
Bis(2-ethylhexyl)phthalate
Concen: 78.191 ng
RT: 21.345 min Scan# 3
Delta R.T. 0.006 min
Lab File: BM041165.D
Acq: 28 Jul 2023 14:38

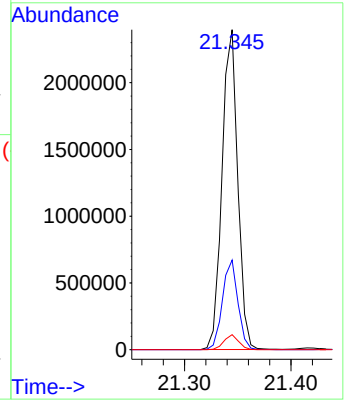
Tgt Ion:149 Resp: 244128

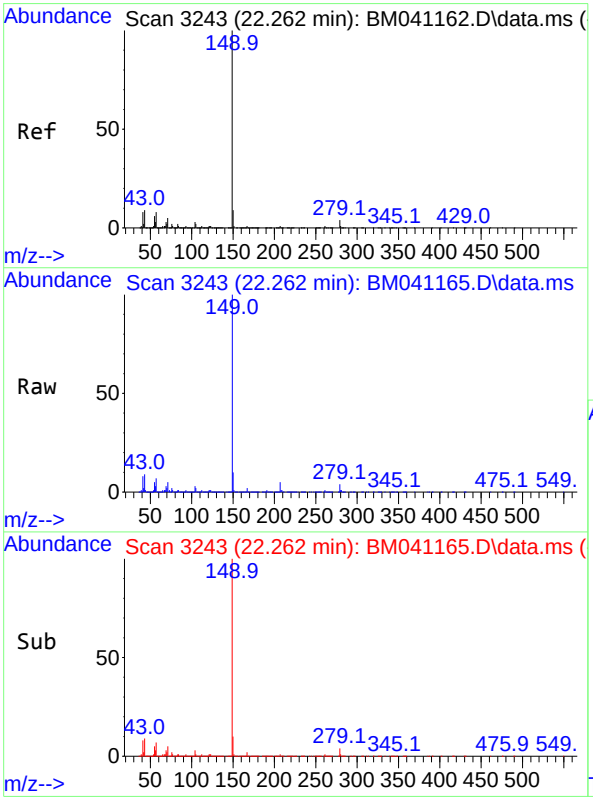
Ion	Ratio	Lower	Upper
149	100		
167	28.0	21.0	31.6
279	4.7	3.1	4.7

Instrument :
BNA_M
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

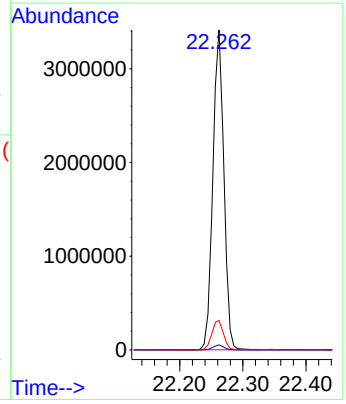


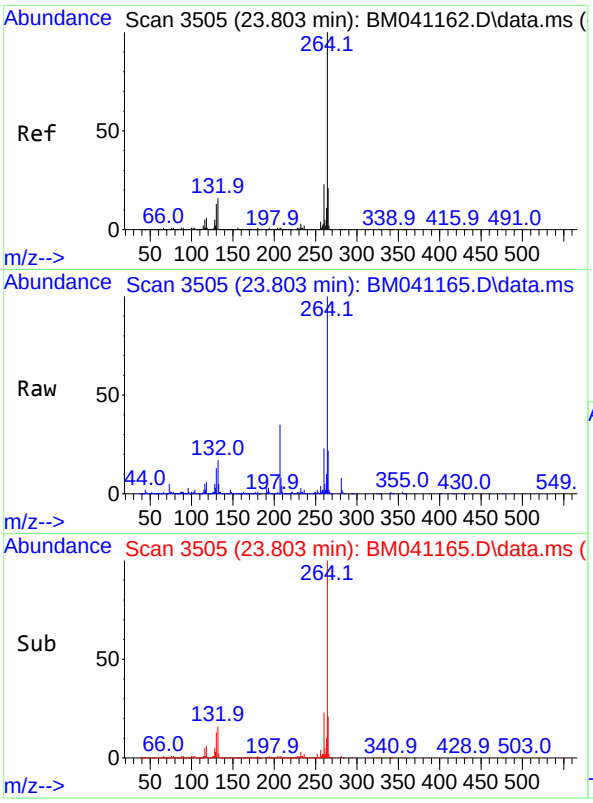


#85
Di-n-octyl phthalate
Concen: 84.910 ng
RT: 22.262 min Scan# 3243
Delta R.T. 0.000 min
Lab File: BM041165.D
Acq: 28 Jul 2023 14:38

Tgt Ion:149 Resp: 4130026

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.2	1.8
43	9.9	8.3	12.5

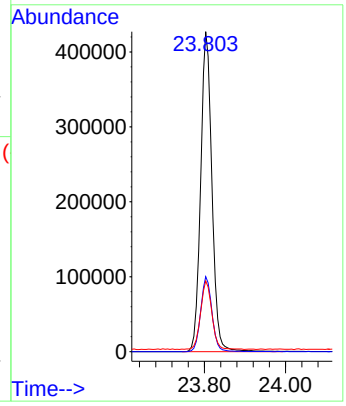




#86
Perylene-d12
Concen: 20.000 ng
RT: 23.803 min Scan# 3
Delta R.T. 0.000 min
Lab File: BM041165.D
Acq: 28 Jul 2023 14:38

Tgt Ion:264 Resp: 82822

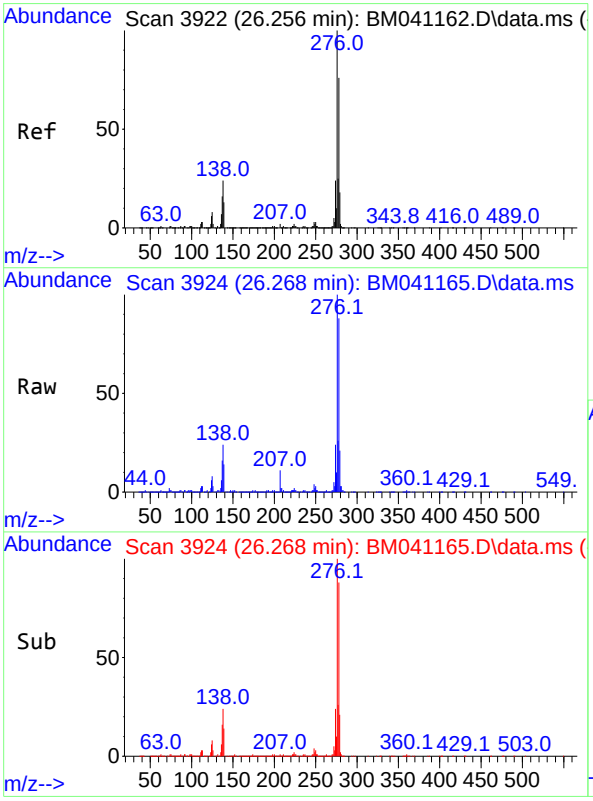
Ion	Ratio	Lower	Upper
264	100		
260	23.5	18.5	27.7
265	22.1	17.4	26.0



Instrument :
BNA_M
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

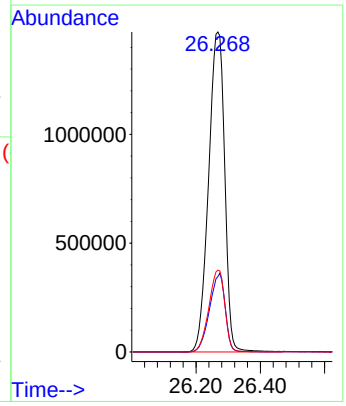
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

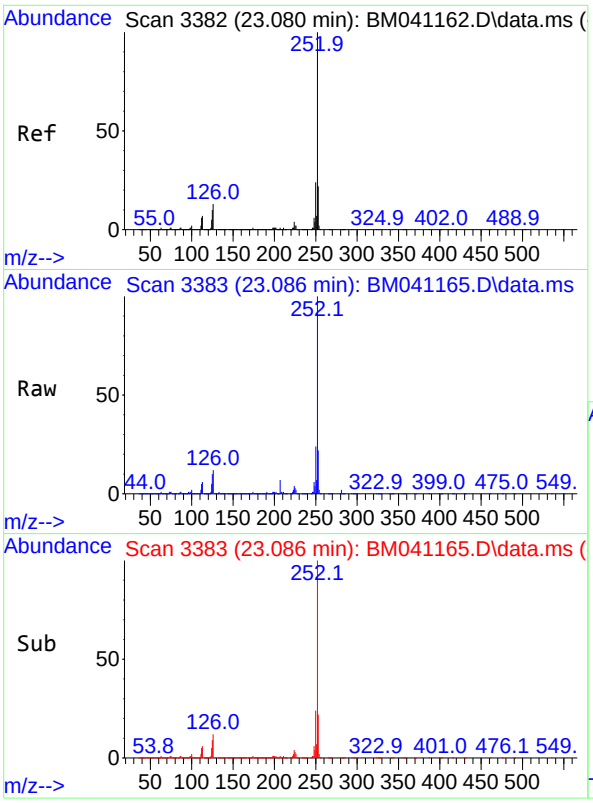


#87
Indeno(1,2,3-cd)pyrene
Concen: 84.108 ng
RT: 26.268 min Scan# 3924
Delta R.T. 0.012 min
Lab File: BM041165.D
Acq: 28 Jul 2023 14:38

Tgt Ion:276 Resp: 5121510

Ion	Ratio	Lower	Upper
276	100		
138	23.7	20.0	30.0
277	25.3	20.1	30.1

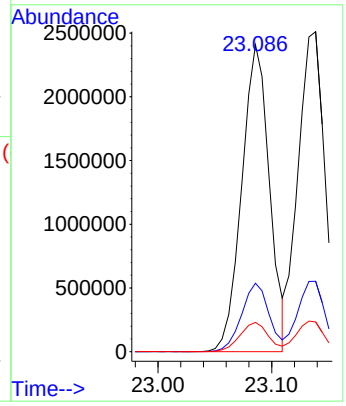




#88
Benzo(b)fluoranthene
Concen: 82.860 ng
RT: 23.086 min Scan# 3
Delta R.T. 0.006 min
Lab File: BM041165.D
Acq: 28 Jul 2023 14:38

Tgt Ion:252 Resp: 407683

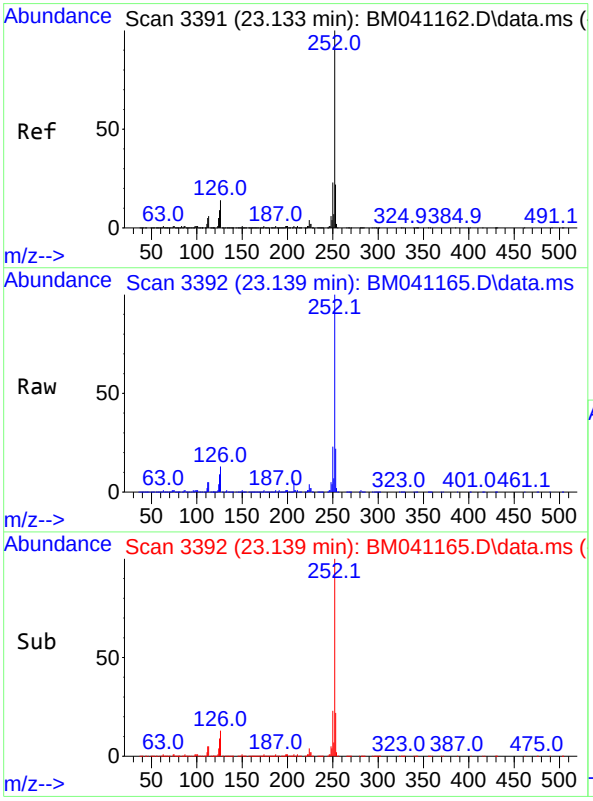
Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.7	26.5
125	9.5	8.2	12.4



Instrument :
BNA_M
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

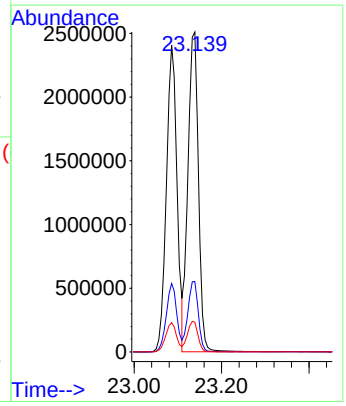
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

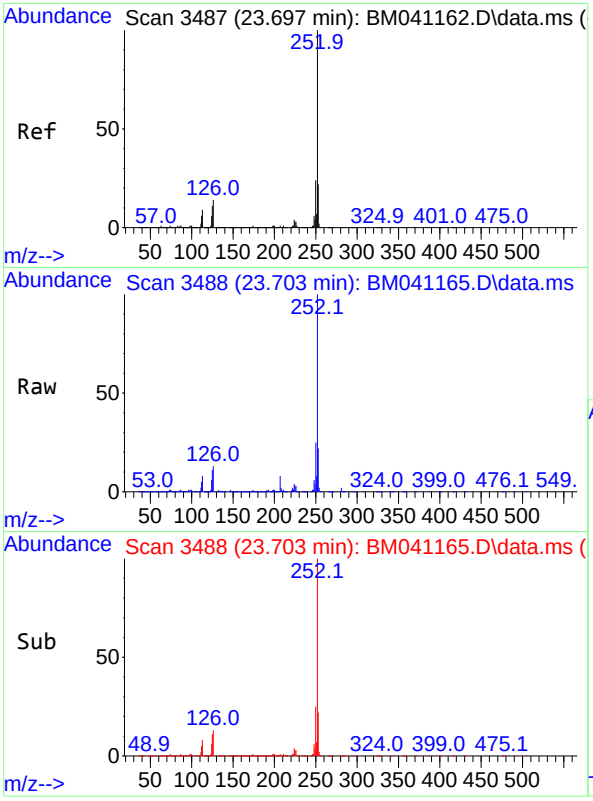


#89
Benzo(k)fluoranthene
Concen: 82.595 ng
RT: 23.139 min Scan# 3392
Delta R.T. 0.006 min
Lab File: BM041165.D
Acq: 28 Jul 2023 14:38

Tgt Ion:252 Resp: 4156900

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.4	26.0
125	9.3	7.6	11.4

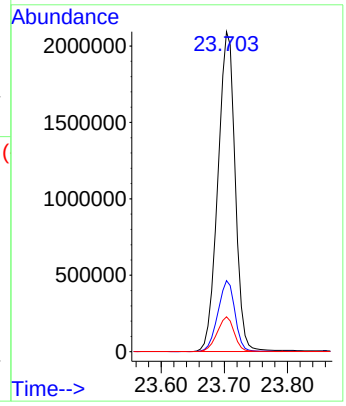




#90
Benzo(a)pyrene
Concen: 84.244 ng
RT: 23.703 min Scan# 34
Delta R.T. 0.006 min
Lab File: BM041165.D
Acq: 28 Jul 2023 14:38

Tgt Ion:252 Resp: 398268

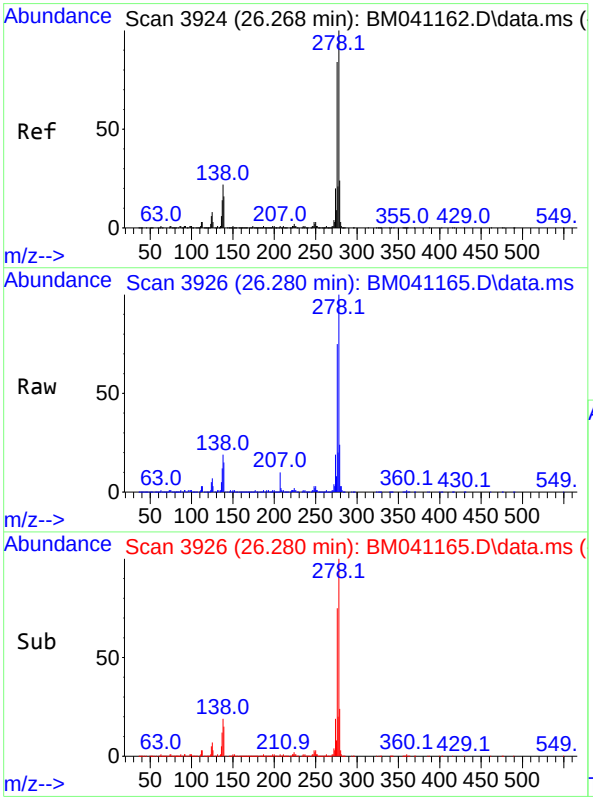
Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.3	25.9
125	10.9	9.0	13.4



Instrument :
BNA_M
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

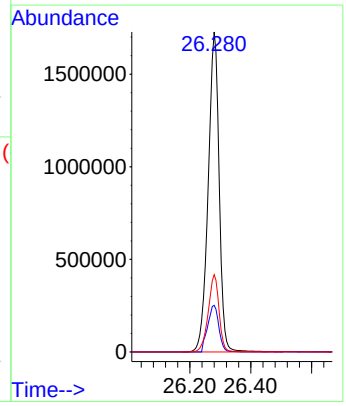
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

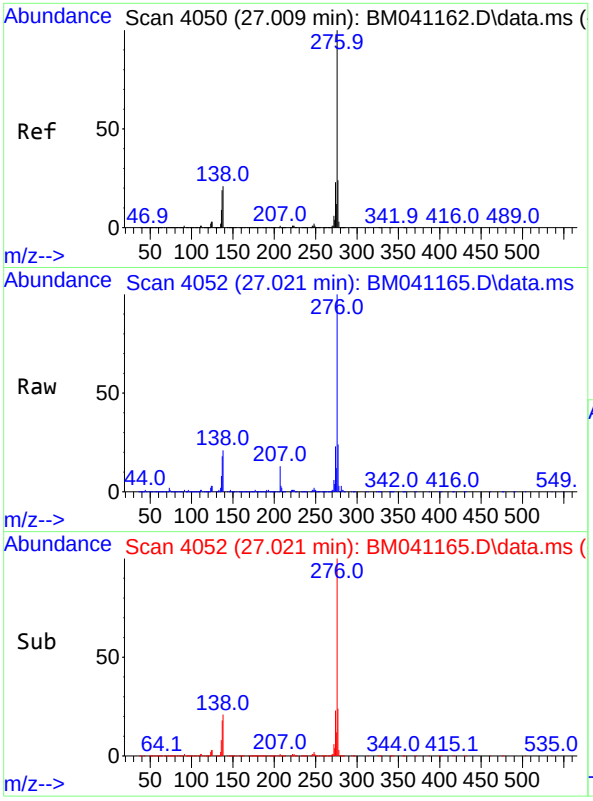


#91
Dibenzo(a,h)anthracene
Concen: 85.295 ng
RT: 26.280 min Scan# 3926
Delta R.T. 0.012 min
Lab File: BM041165.D
Acq: 28 Jul 2023 14:38

Tgt Ion:278 Resp: 4332052

Ion	Ratio	Lower	Upper
278	100		
139	14.5	12.7	19.1
279	24.1	19.1	28.7

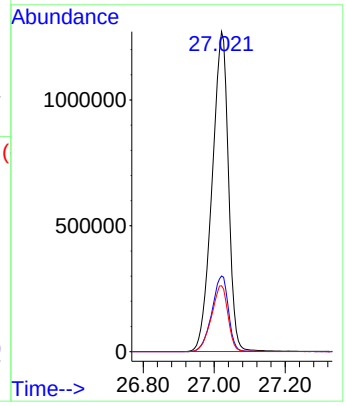




#92
Benzo(g,h,i)perylene
Concen: 81.811 ng
RT: 27.021 min Scan# 4
Delta R.T. 0.012 min
Lab File: BM041165.D
Acq: 28 Jul 2023 14:38

Tgt Ion:276 Resp: 406572

Ion	Ratio	Lower	Upper
276	100		
277	23.7	19.1	28.7
138	20.6	17.1	25.7



Instrument :
BNA_M
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM072823\
Data File : BM041166.D
Acq On : 28 Jul 2023 15:16
Operator : MA/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
ICVBM072823

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

Quant Time: Jul 29 00:23:16 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Jul 29 00:19:24 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.804	152	207129	20.000	ng	0.00
21) Naphthalene-d8	10.616	136	748998	20.000	ng	0.00
39) Acenaphthene-d10	14.469	164	407731	20.000	ng	0.00
64) Phenanthrene-d10	17.227	188	810093	20.000	ng	0.00
76) Chrysene-d12	21.433	240	755647	20.000	ng	0.00
86) Perylene-d12	23.803	264	812070	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.375	112	1118974	80.742	ng	0.00
7) Phenol-d6	6.981	99	1450168	80.726	ng	0.00
23) Nitrobenzene-d5	8.987	82	1323742	82.190	ng	0.00
42) 2,4,6-Tribromophenol	15.969	330	481822	83.546	ng	0.00
45) 2-Fluorobiphenyl	13.092	172	2639241	81.770	ng	0.00
79) Terphenyl-d14	19.868	244	3534755	84.577	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.269	88	232677	39.247	ng	100
3) Pyridine	3.675	79	633072m	40.612	ng	
4) n-Nitrosodimethylamine	3.593	42	286681	39.764	ng	95
6) Aniline	7.140	93	850441	40.452	ng	100
8) 2-Chlorophenol	7.369	128	546270	40.377	ng	99
9) Benzaldehyde	6.957	77	371759	39.220	ng	100
10) Phenol	7.010	94	696725	40.156	ng	99
11) bis(2-Chloroethyl)ether	7.240	93	564539	40.196	ng	99
12) 1,3-Dichlorobenzene	7.693	146	591585	40.170	ng	99
13) 1,4-Dichlorobenzene	7.840	146	593659	40.106	ng	99
14) 1,2-Dichlorobenzene	8.157	146	568080	40.026	ng	99
15) Benzyl Alcohol	8.063	79	470559	41.479	ng	100
16) 2,2'-oxybis(1-Chloropr...	8.345	45	741529	39.627	ng	100
17) 2-Methylphenol	8.263	107	481649	40.633	ng	99
18) Hexachloroethane	8.881	117	226080	41.025	ng	94
19) n-Nitroso-di-n-propyla...	8.628	70	447708	41.032	ng	100
20) 3+4-Methylphenols	8.593	107	646313	40.779	ng	99
22) Acetophenone	8.645	105	798436	40.250	ng	100
24) Nitrobenzene	9.028	77	666132	40.898	ng	100
25) Isophorone	9.551	82	1135659	41.538	ng	100
26) 2-Nitrophenol	9.734	139	275452	43.261	ng	98
27) 2,4-Dimethylphenol	9.798	122	464051	41.418	ng	99
28) bis(2-Chloroethoxy)met...	10.040	93	695021	40.583	ng	99
29) 2,4-Dichlorophenol	10.269	162	474232	41.972	ng	99
30) 1,2,4-Trichlorobenzene	10.475	180	515502	41.295	ng	100
31) Naphthalene	10.663	128	1622708	39.924	ng	100
32) Benzoic acid	9.957	122	309569	38.460	ng	97
33) 4-Chloroaniline	10.792	127	673678	41.475	ng	99
34) Hexachlorobutadiene	10.934	225	313133	41.707	ng	99
35) Caprolactam	11.598	113	136504	41.763	ng	95
36) 4-Chloro-3-methylphenol	11.922	107	487191	40.967	ng	99
37) 2-Methylnaphthalene	12.281	142	1112670	40.605	ng	99
38) 1-Methylnaphthalene	12.504	142	1032730	40.268	ng	99
40) 1,2,4,5-Tetrachloroben...	12.651	216	548886	41.458	ng	99
41) Hexachlorocyclopentadiene	12.622	237	304990	43.543	ng	100
43) 2,4,6-Trichlorophenol	12.898	196	359758	42.396	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM072823\
Data File : BM041166.D
Acq On : 28 Jul 2023 15:16
Operator : MA/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
ICVBM072823

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

Quant Time: Jul 29 00:23:16 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Jul 29 00:19:24 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.975	196	409792	41.723	ng	98
46) 1,1'-Biphenyl	13.304	154	1340694	40.560	ng	99
47) 2-Chloronaphthalene	13.345	162	1004090	40.683	ng	99
48) 2-Nitroaniline	13.569	65	334152	42.415	ng	99
49) Acenaphthylene	14.192	152	1622906	40.739	ng	100
50) Dimethylphthalate	13.939	163	1247741	40.683	ng	99
51) 2,6-Dinitrotoluene	14.069	165	265214	41.734	ng	99
52) Acenaphthene	14.533	154	969239	40.387	ng	99
53) 3-Nitroaniline	14.398	138	285168	39.274	ng	97
54) 2,4-Dinitrophenol	14.610	184	153750	39.049	ng	97
55) Dibenzofuran	14.874	168	1565187	39.974	ng	100
56) 4-Nitrophenol	14.710	139	215896	40.764	ng	99
57) 2,4-Dinitrotoluene	14.857	165	352162	39.317	ng	96
58) Fluorene	15.527	166	1237107	40.050	ng	99
59) 2,3,4,6-Tetrachlorophenol	15.104	232	329888	41.478	ng	98
60) Diethylphthalate	15.304	149	1216997	41.032	ng	99
61) 4-Chlorophenyl-phenyle...	15.521	204	636945	41.150	ng	98
62) 4-Nitroaniline	15.569	138	256830	38.766	ng	100
63) Azobenzene	15.816	77	1331240	40.975	ng	99
65) 4,6-Dinitro-2-methylph...	15.621	198	209630	42.716	ng	97
66) n-Nitrosodiphenylamine	15.739	169	1039708	41.267	ng	100
67) 4-Bromophenyl-phenylether	16.416	248	371817	41.862	ng	97
68) Hexachlorobenzene	16.527	284	408021	41.312	ng	98
69) Atrazine	16.704	200	281809	42.592	ng	99
70) Pentachlorophenol	16.880	266	292755	42.807	ng	99
71) Phenanthrene	17.274	178	1808480	40.180	ng	100
72) Anthracene	17.363	178	1835860	41.241	ng	100
73) Carbazole	17.645	167	1655645	41.093	ng	100
74) Di-n-butylphthalate	18.204	149	1969689	43.263	ng	99
75) Fluoranthene	19.298	202	2074921	41.033	ng	100
77) Benzidine	19.498	184	521812	50.664	ng	100
78) Pyrene	19.662	202	2177419	41.205	ng	100
80) Butylbenzylphthalate	20.568	149	854614	44.286	ng	100
81) Benzo(a)anthracene	21.415	228	2102314	41.039	ng	99
82) 3,3'-Dichlorobenzidine	21.356	252	719571	43.047	ng	99
83) Chrysene	21.468	228	1989096	40.144	ng	99
84) Bis(2-ethylhexyl)phtha...	21.339	149	1235539	40.723	ng	99
85) Di-n-octyl phthalate	22.262	149	2066275	42.367	ng	99
87) Indeno(1,2,3-cd)pyrene	26.256	276	2460338	41.209	ng	99
88) Benzo(b)fluoranthene	23.086	252	1959228	40.613	ng	99
89) Benzo(k)fluoranthene	23.133	252	2081177	42.174	ng	99
90) Benzo(a)pyrene	23.697	252	1934392	41.731	ng	99
91) Dibenzo(a,h)anthracene	26.268	278	2061474	41.396	ng	99
92) Benzo(g,h,i)perylene	27.009	276	1993532	40.912	ng	98

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

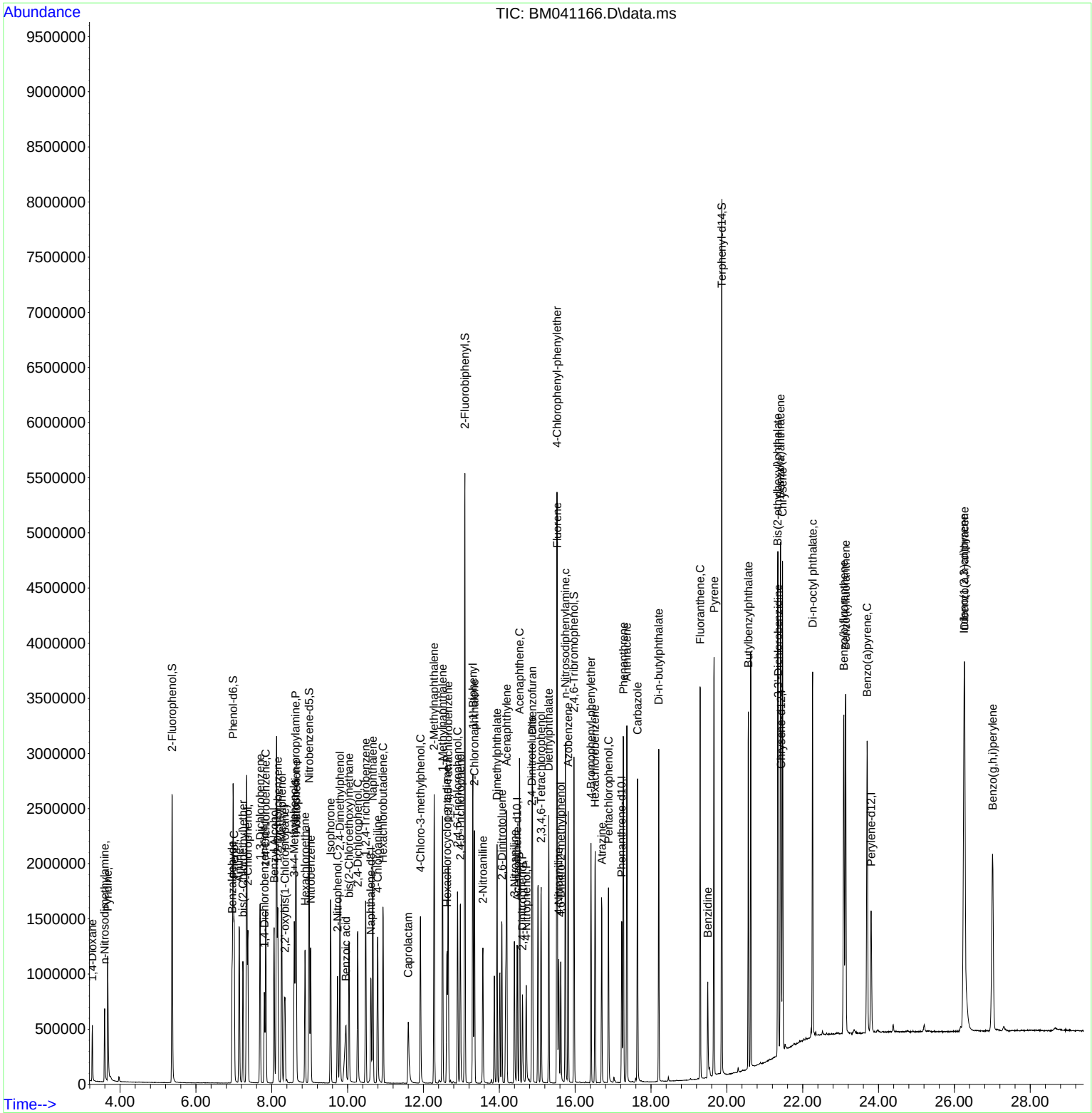
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM072823\
Data File : BM041166.D
Acq On : 28 Jul 2023 15:16
Operator : MA/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

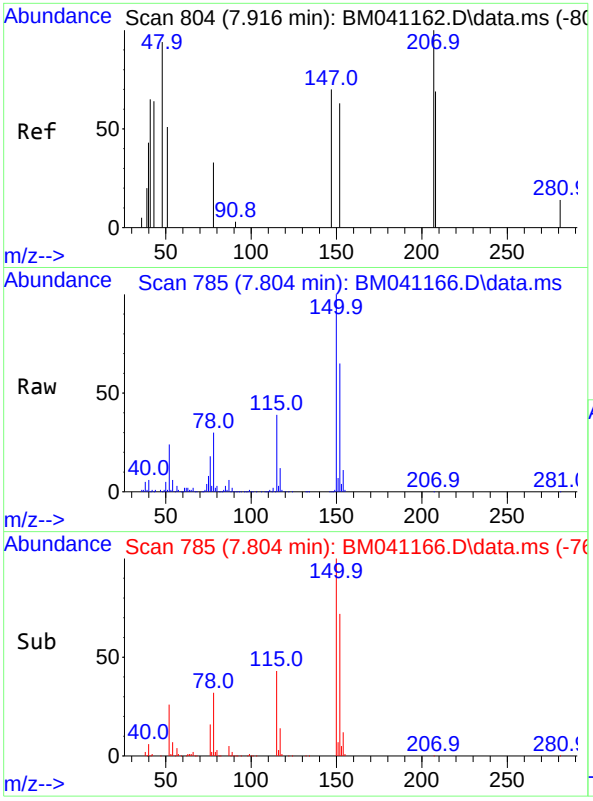
Quant Time: Jul 29 00:23:16 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Jul 29 00:19:24 2023
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
ICVBM072823

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

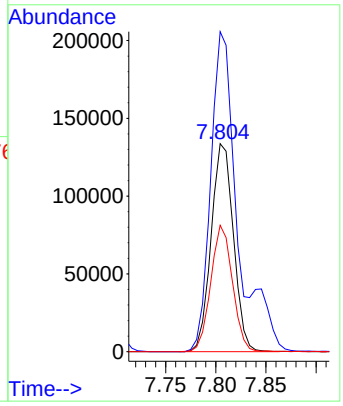




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.804 min Scan# 7
Delta R.T. 0.000 min
Lab File: BM041166.D
Acq: 28 Jul 2023 15:16

Tgt Ion:152 Resp: 20712

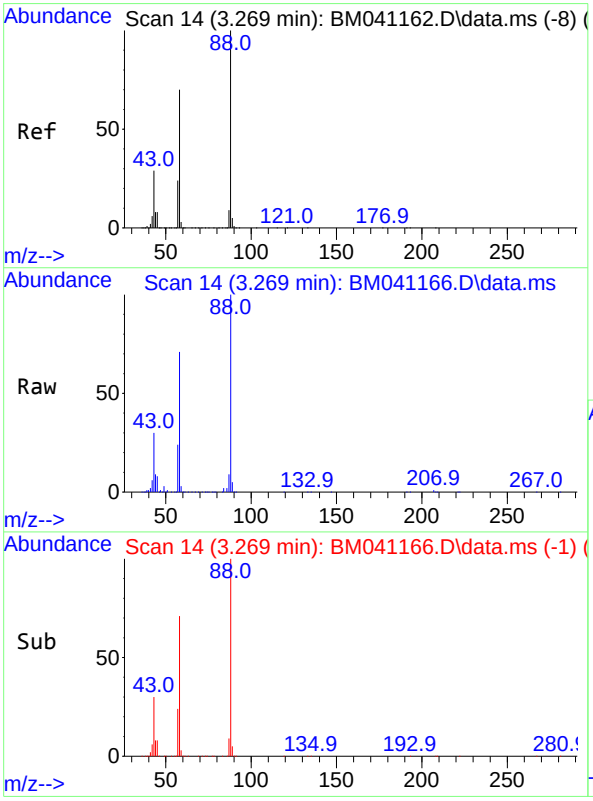
Ion	Ratio	Lower	Upper
152	100		
150	153.9	125.5	188.3
115	60.8	48.0	72.0



Instrument :
BNA_M
ClientSampleId :
ICVBM072823

Manual Integrations
APPROVED

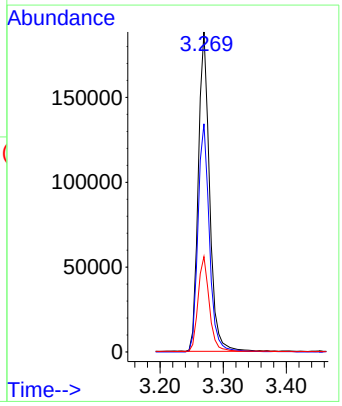
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

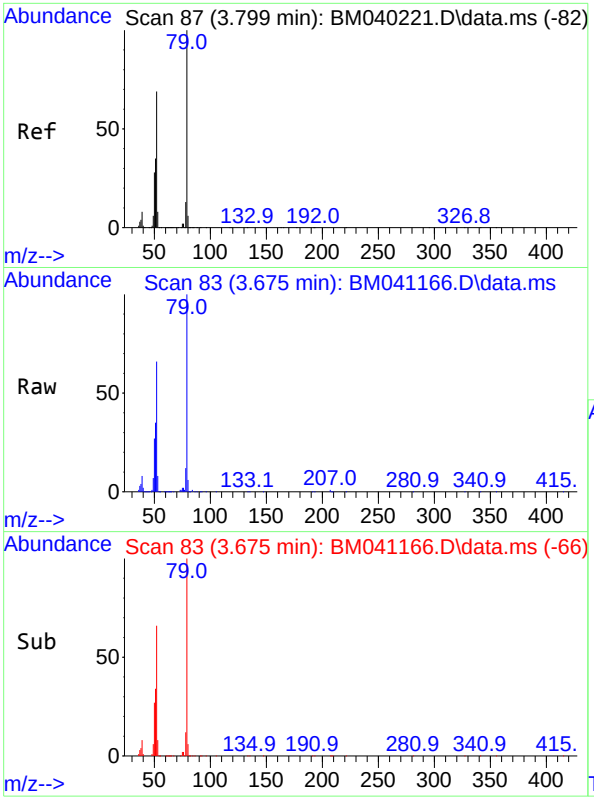


#2
1,4-Dioxane
Concen: 39.247 ng
RT: 3.269 min Scan# 14
Delta R.T. 0.000 min
Lab File: BM041166.D
Acq: 28 Jul 2023 15:16

Tgt Ion: 88 Resp: 232677

Ion	Ratio	Lower	Upper
88	100		
58	72.8	58.2	87.4
43	29.8	24.4	36.6

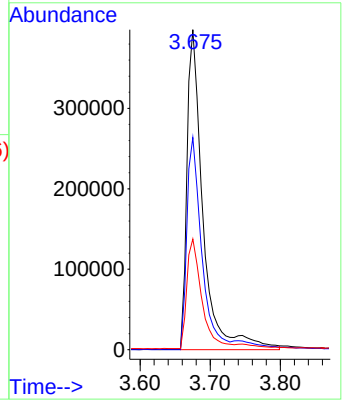




#3
Pyridine
Concen: 40.612 ng m
RT: 3.675 min Scan# 8
Delta R.T. 0.000 min
Lab File: BM041166.D
Acq: 28 Jul 2023 15:16

Tgt Ion: 79 Resp: 63307

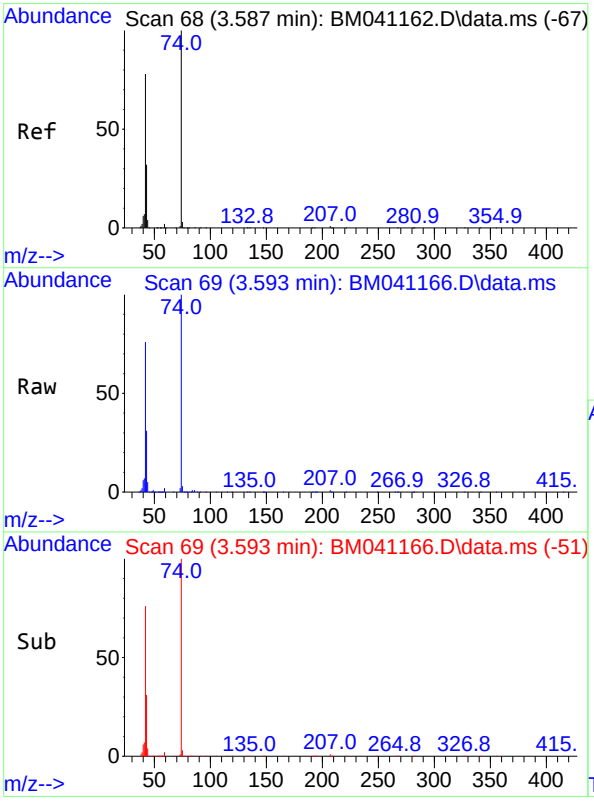
Ion	Ratio	Lower	Upper
79	100		
52	66.3	52.1	78.1
51	34.6	27.5	41.3



Instrument :
BNA_M
ClientSampleId :
ICVBM072823

Manual Integrations APPROVED

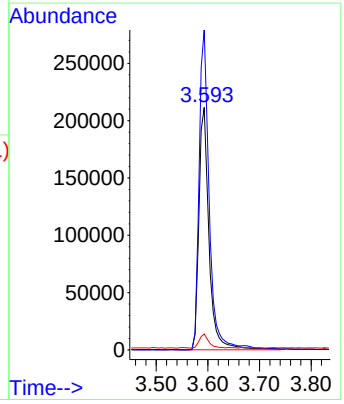
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

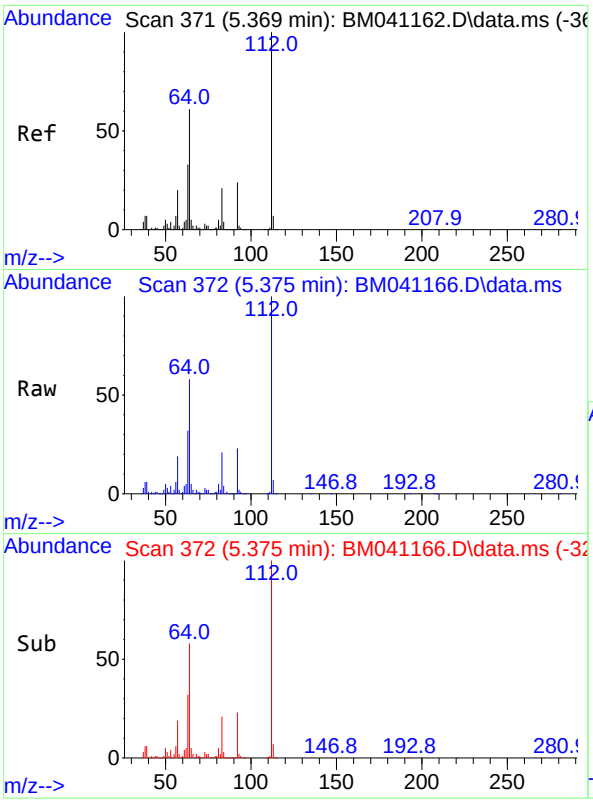


#4
n-Nitrosodimethylamine
Concen: 39.764 ng
RT: 3.593 min Scan# 69
Delta R.T. 0.006 min
Lab File: BM041166.D
Acq: 28 Jul 2023 15:16

Tgt Ion: 42 Resp: 286681

Ion	Ratio	Lower	Upper
42	100		
74	131.9	100.8	151.2
44	6.6	5.0	7.4

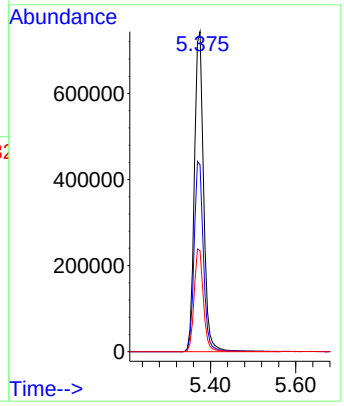




#5
2-Fluorophenol
Concen: 80.742 ng
RT: 5.375 min Scan# 3
Delta R.T. 0.006 min
Lab File: BM041166.D
Acq: 28 Jul 2023 15:16

Tgt Ion:112 Resp: 111897

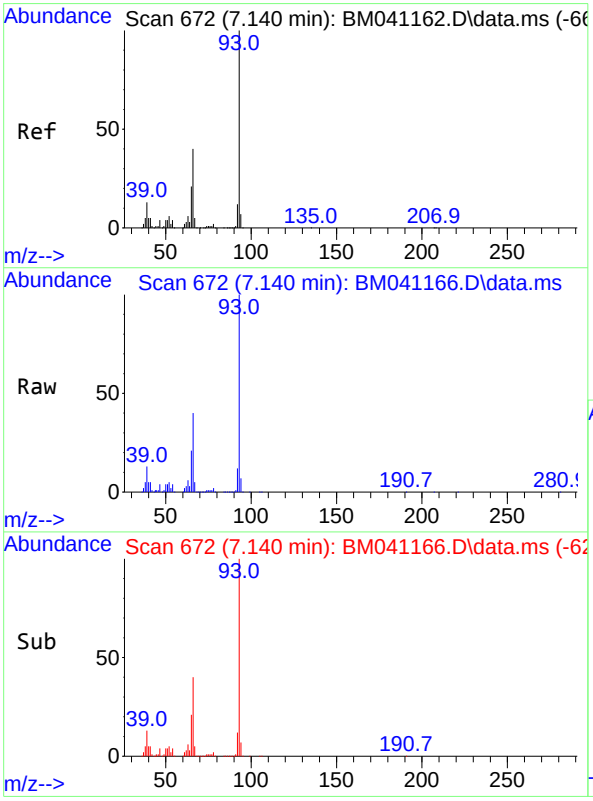
Ion	Ratio	Lower	Upper
112	100		
64	58.4	48.5	72.7
63	31.6	26.5	39.7



Instrument :
BNA_M
ClientSampleId :
ICVBM072823

Manual Integrations
APPROVED

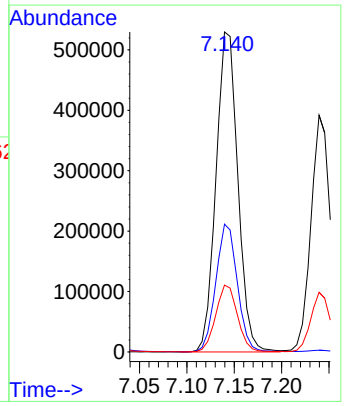
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

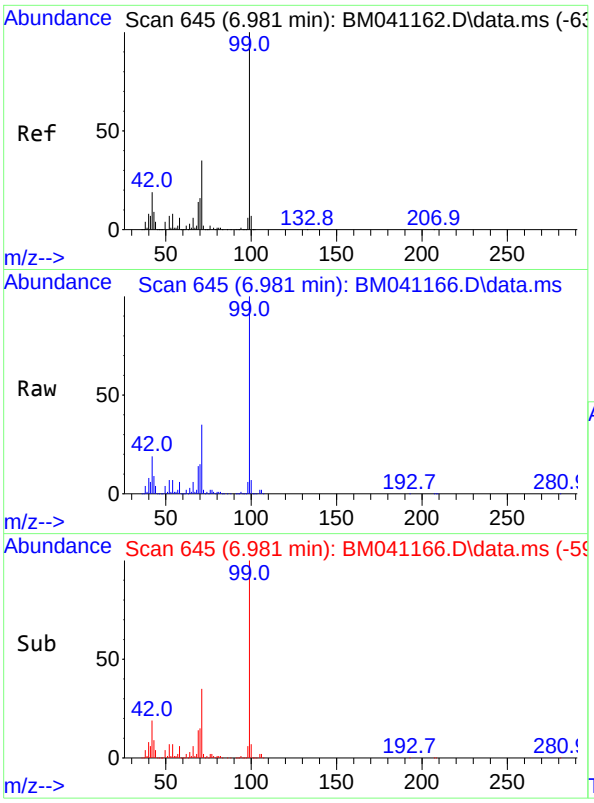


#6
Aniline
Concen: 40.452 ng
RT: 7.140 min Scan# 672
Delta R.T. 0.000 min
Lab File: BM041166.D
Acq: 28 Jul 2023 15:16

Tgt Ion: 93 Resp: 850441

Ion	Ratio	Lower	Upper
93	100		
66	39.9	32.0	48.0
65	20.9	16.6	24.8

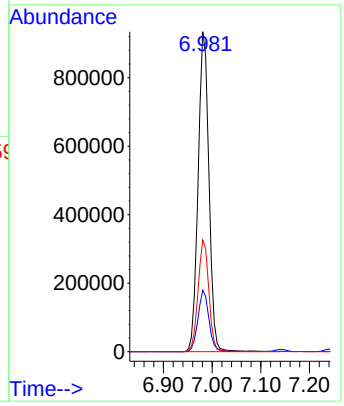




#7
Phenol-d6
Concen: 80.726 ng
RT: 6.981 min Scan# 64
Delta R.T. 0.000 min
Lab File: BM041166.D
Acq: 28 Jul 2023 15:16

Tgt Ion: 99 Resp: 145016

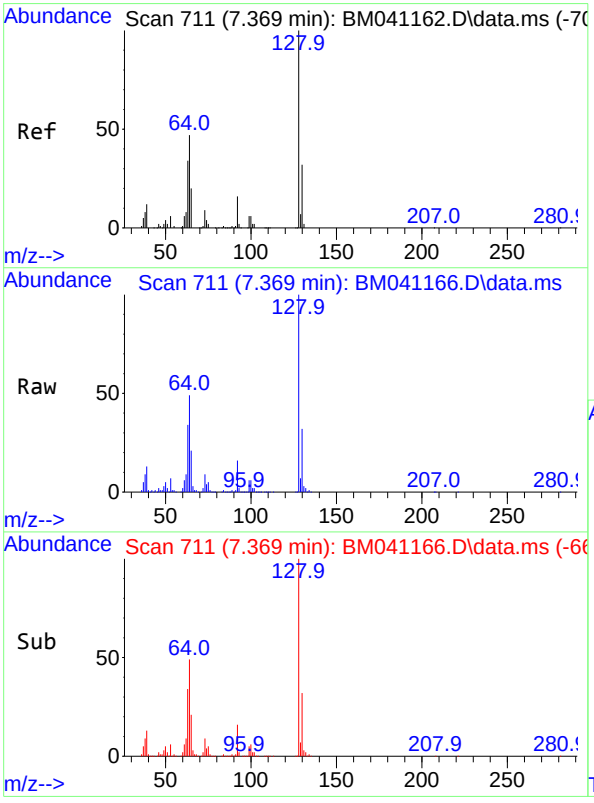
Ion	Ratio	Lower	Upper
99	100		
42	19.2	15.4	23.0
71	35.0	28.2	42.4



Instrument :
BNA_M
ClientSampleId :
ICVBM072823

Manual Integrations APPROVED

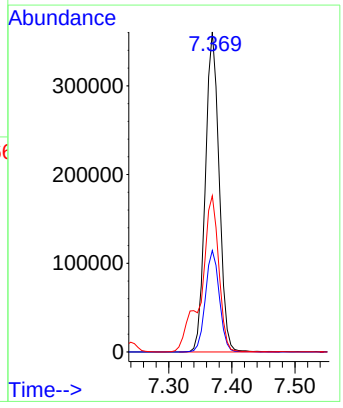
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

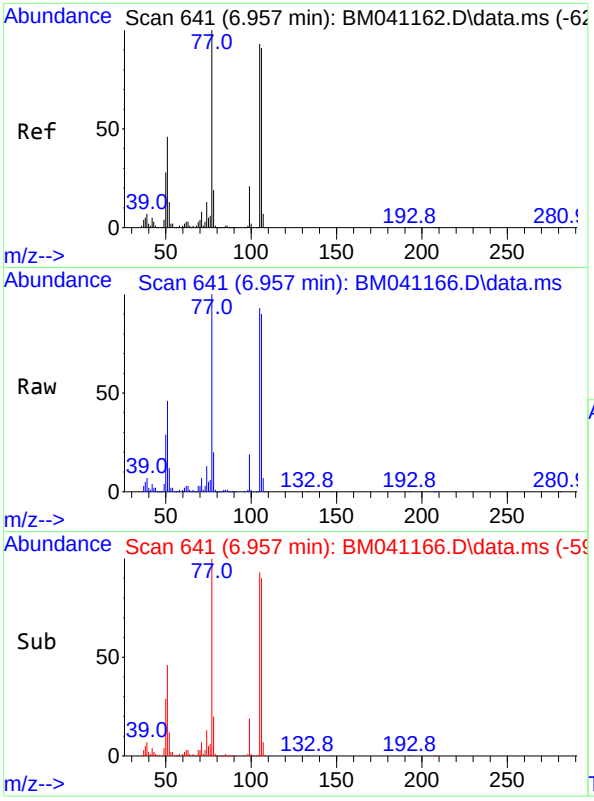


#8
2-Chlorophenol
Concen: 40.377 ng
RT: 7.369 min Scan# 711
Delta R.T. 0.000 min
Lab File: BM041166.D
Acq: 28 Jul 2023 15:16

Tgt Ion:128 Resp: 546270

Ion	Ratio	Lower	Upper
128	100		
130	31.7	12.3	52.3
64	48.8	29.3	69.3

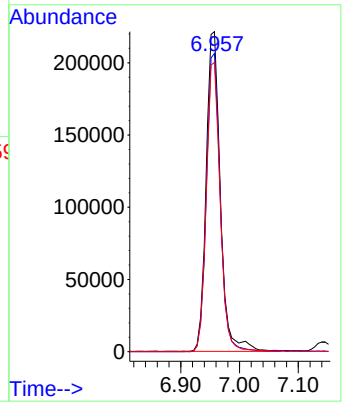




#9
Benzaldehyde
Concen: 39.220 ng
RT: 6.957 min Scan# 64
Delta R.T. 0.000 min
Lab File: BM041166.D
Acq: 28 Jul 2023 15:16

Tgt Ion: 77 Resp: 37175

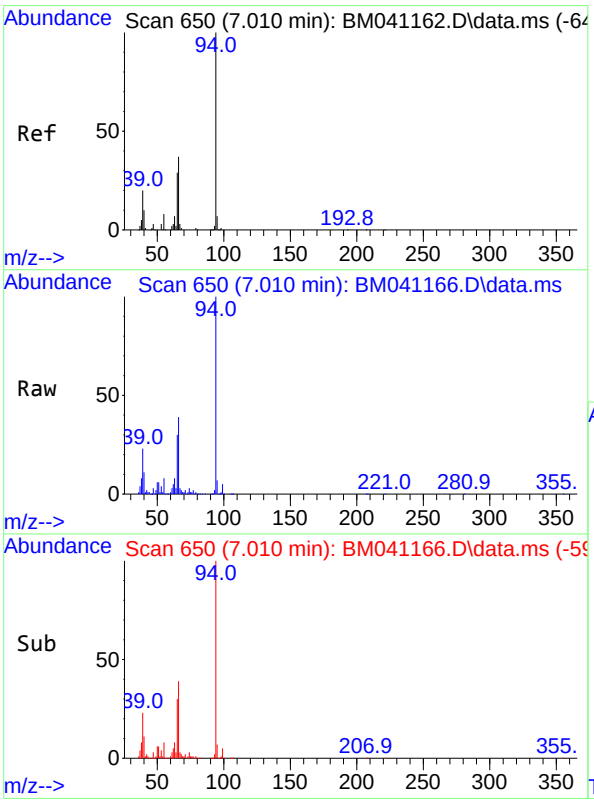
Ion	Ratio	Lower	Upper
77	100		
105	93.2	72.8	112.8
106	90.4	70.8	110.8



Instrument :
BNA_M
ClientSampleId :
ICVBM072823

Manual Integrations APPROVED

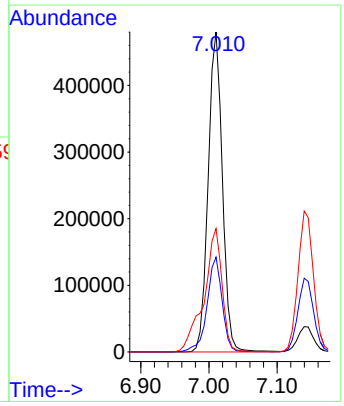
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

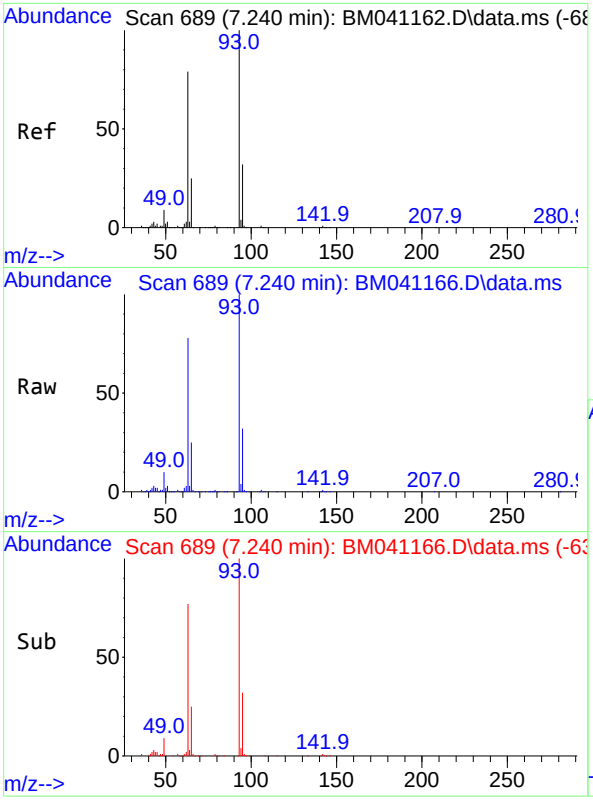


#10
Phenol
Concen: 40.156 ng
RT: 7.010 min Scan# 650
Delta R.T. 0.000 min
Lab File: BM041166.D
Acq: 28 Jul 2023 15:16

Tgt Ion: 94 Resp: 696725

Ion	Ratio	Lower	Upper
94	100		
65	29.7	9.5	49.5
66	38.6	18.0	58.0

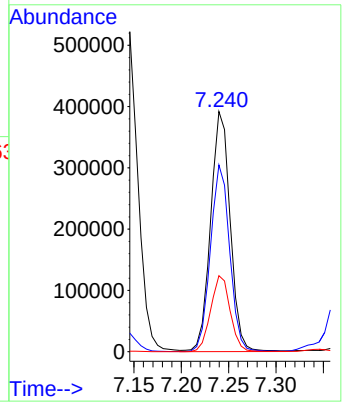




#11
bis(2-Chloroethyl)ether
Concen: 40.196 ng
RT: 7.240 min Scan# 6
Delta R.T. 0.000 min
Lab File: BM041166.D
Acq: 28 Jul 2023 15:16

Tgt Ion: 93 Resp: 56453

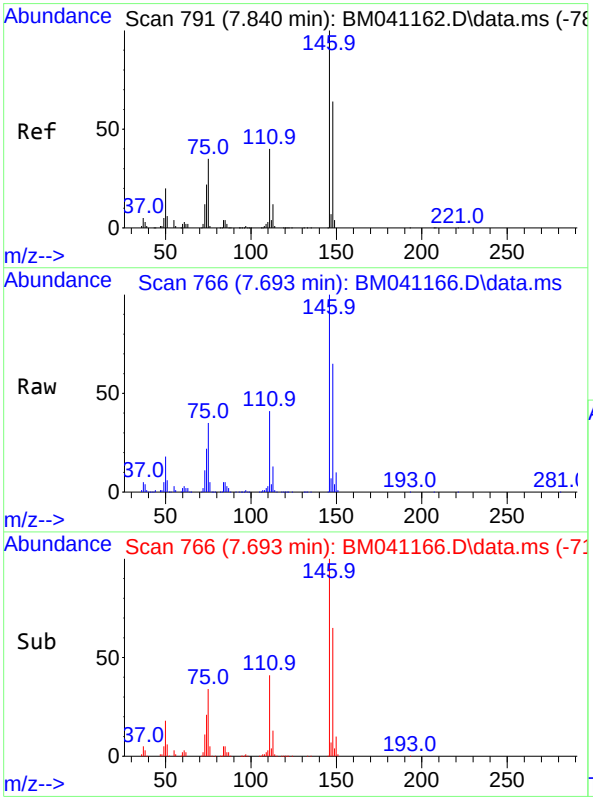
Ion	Ratio	Lower	Upper
93	100		
63	77.8	58.8	98.8
95	31.7	11.8	51.8



Instrument :
BNA_M
ClientSampleId :
ICVBM072823

Manual Integrations APPROVED

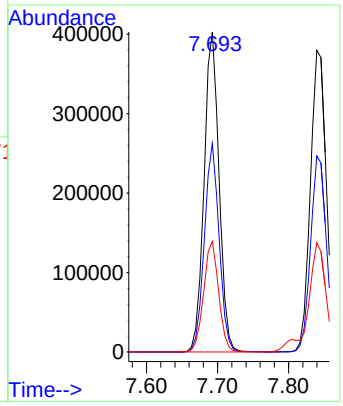
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

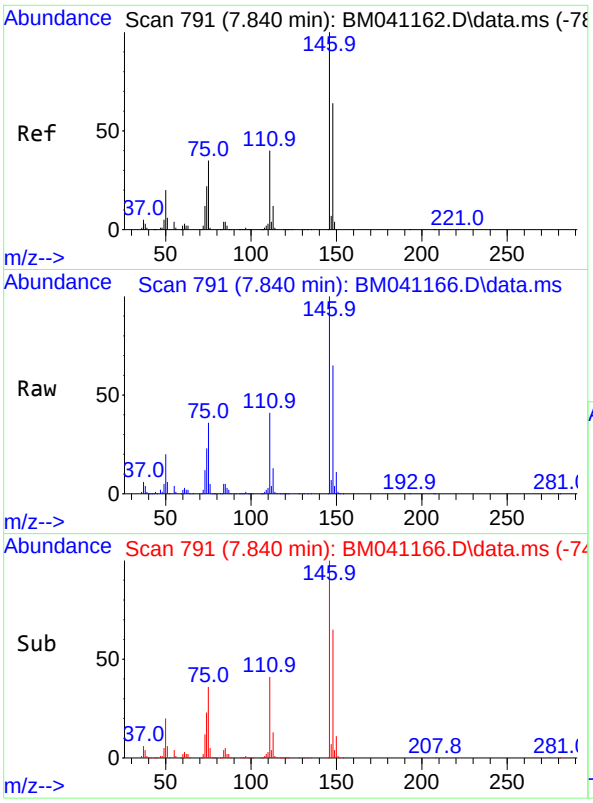


#12
1,3-Dichlorobenzene
Concen: 40.170 ng
RT: 7.693 min Scan# 766
Delta R.T. 0.000 min
Lab File: BM041166.D
Acq: 28 Jul 2023 15:16

Tgt Ion:146 Resp: 591585

Ion	Ratio	Lower	Upper
146	100		
148	65.1	51.9	77.9
75	34.5	28.3	42.5

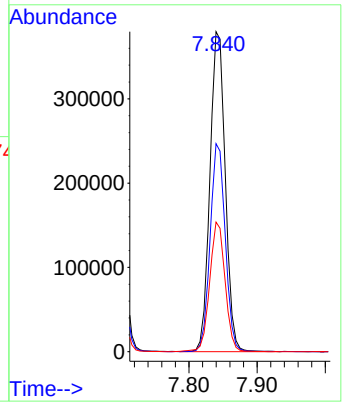




#13
1,4-Dichlorobenzene
Concen: 40.106 ng
RT: 7.840 min Scan# 7
Delta R.T. 0.000 min
Lab File: BM041166.D
Acq: 28 Jul 2023 15:16

Tgt Ion:146 Resp: 59365

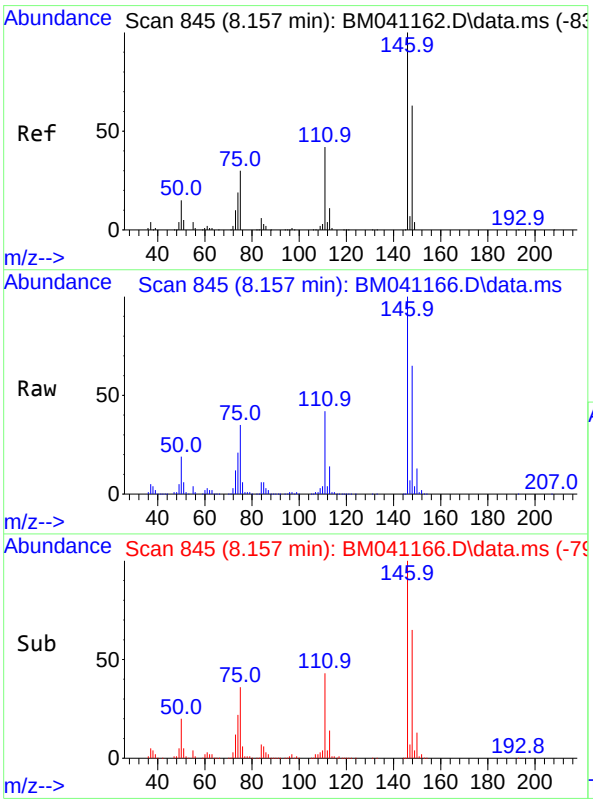
Ion	Ratio	Lower	Upper
146	100		
148	65.0	51.4	77.0
111	40.5	32.4	48.6



Instrument :
BNA_M
ClientSampleId :
ICVBM072823

Manual Integrations
APPROVED

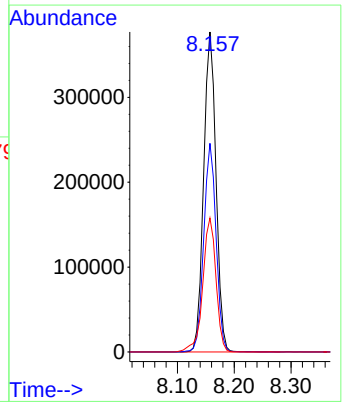
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

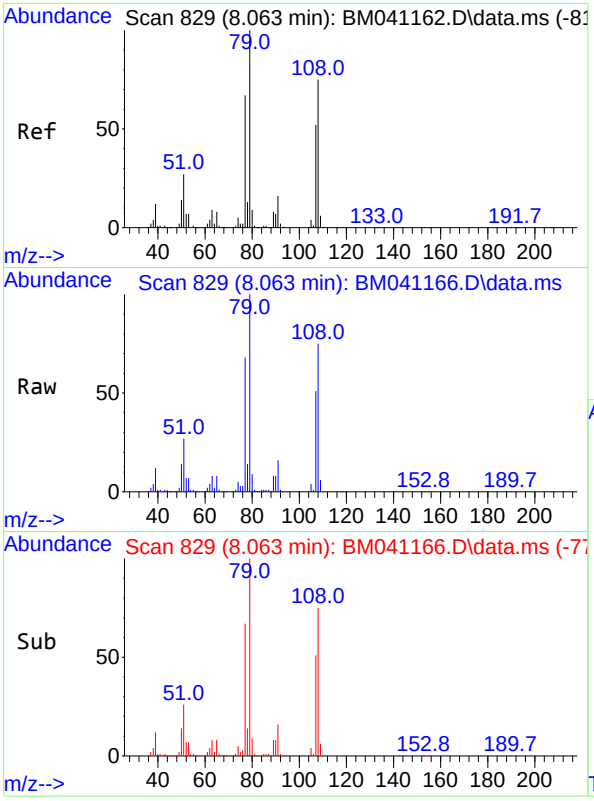


#14
1,2-Dichlorobenzene
Concen: 40.026 ng
RT: 8.157 min Scan# 845
Delta R.T. 0.000 min
Lab File: BM041166.D
Acq: 28 Jul 2023 15:16

Tgt Ion:146 Resp: 568080

Ion	Ratio	Lower	Upper
146	100		
148	65.2	50.9	76.3
111	41.8	33.8	50.6

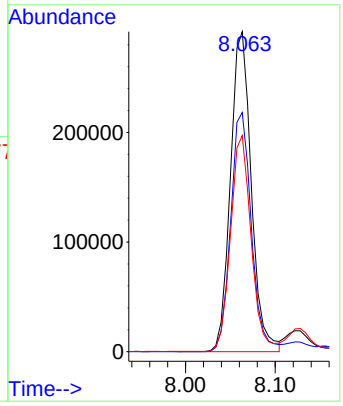




#15
Benzyl Alcohol
Concen: 41.479 ng
RT: 8.063 min Scan# 8
Delta R.T. 0.000 min
Lab File: BM041166.D
Acq: 28 Jul 2023 15:16

Tgt Ion: 79 Resp: 47055

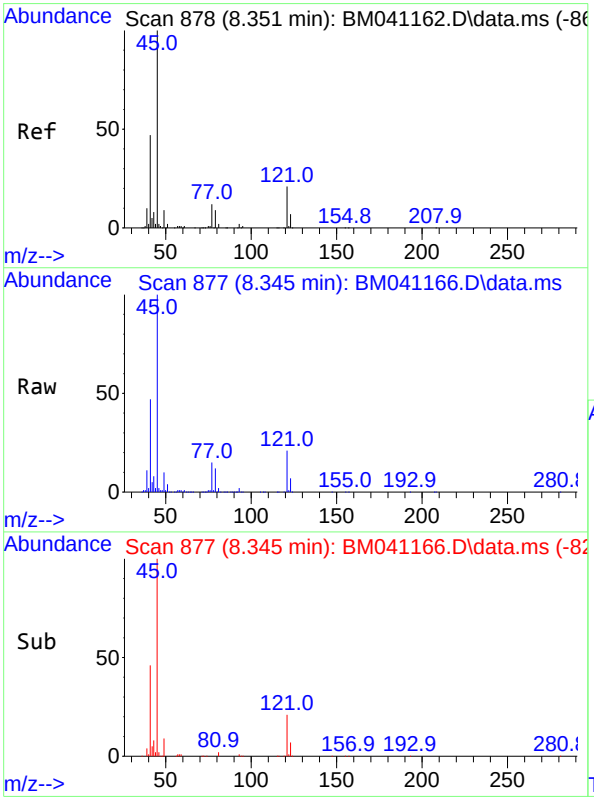
Ion	Ratio	Lower	Upper
79	100		
108	74.7	59.8	89.8
77	67.5	53.8	80.6



Instrument :
BNA_M
ClientSampleId :
ICVBM072823

Manual Integrations APPROVED

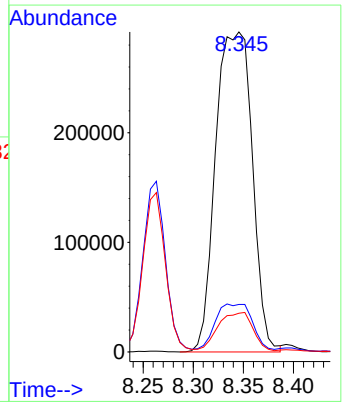
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

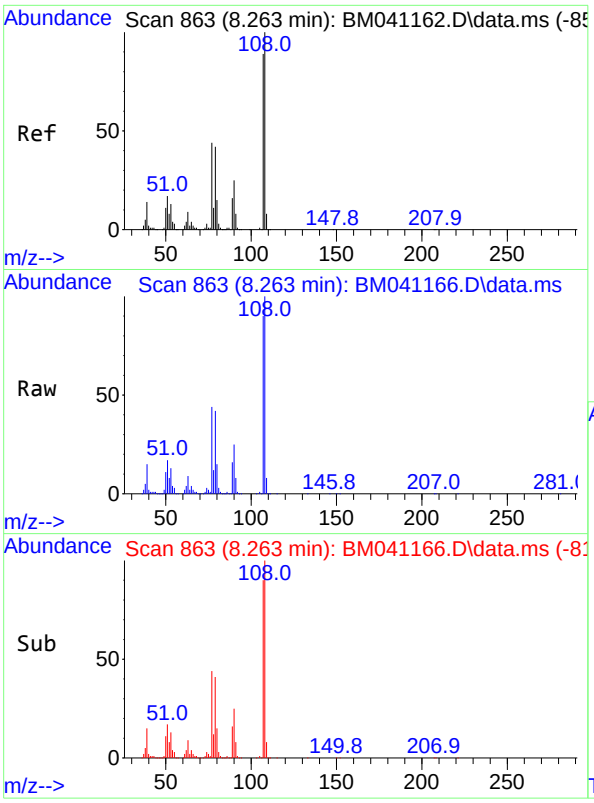


#16
2,2'-oxybis(1-Chloropropane)
Concen: 39.627 ng
RT: 8.345 min Scan# 877
Delta R.T. -0.006 min
Lab File: BM041166.D
Acq: 28 Jul 2023 15:16

Tgt Ion: 45 Resp: 741529

Ion	Ratio	Lower	Upper
45	100		
77	14.8	0.0	34.5
79	12.1	0.0	32.1

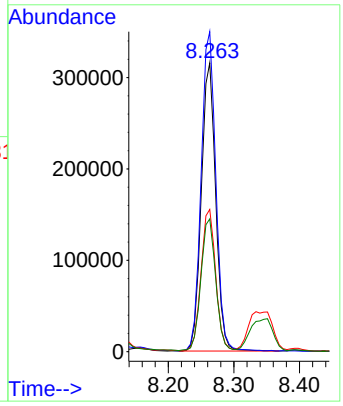




#17
2-Methylphenol
Concen: 40.633 ng
RT: 8.263 min Scan# 8
Delta R.T. 0.000 min
Lab File: BM041166.D
Acq: 28 Jul 2023 15:16

Tgt Ion:107 Resp: 48164

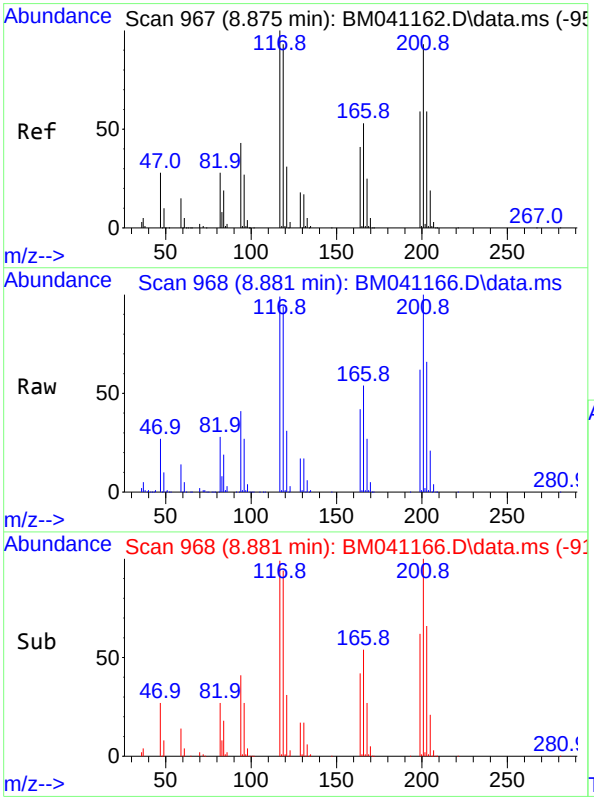
Ion	Ratio	Lower	Upper
107	100		
108	110.8	89.9	134.9
77	49.3	39.8	59.8
79	46.0	37.7	56.5



Instrument :
BNA_M
ClientSampleId :
ICVBM072823

Manual Integrations
APPROVED

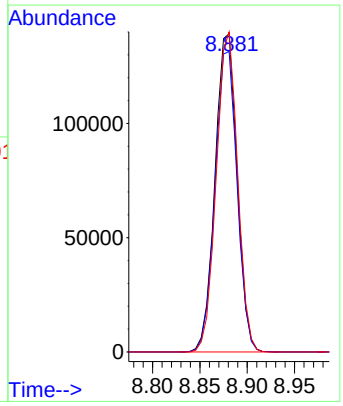
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

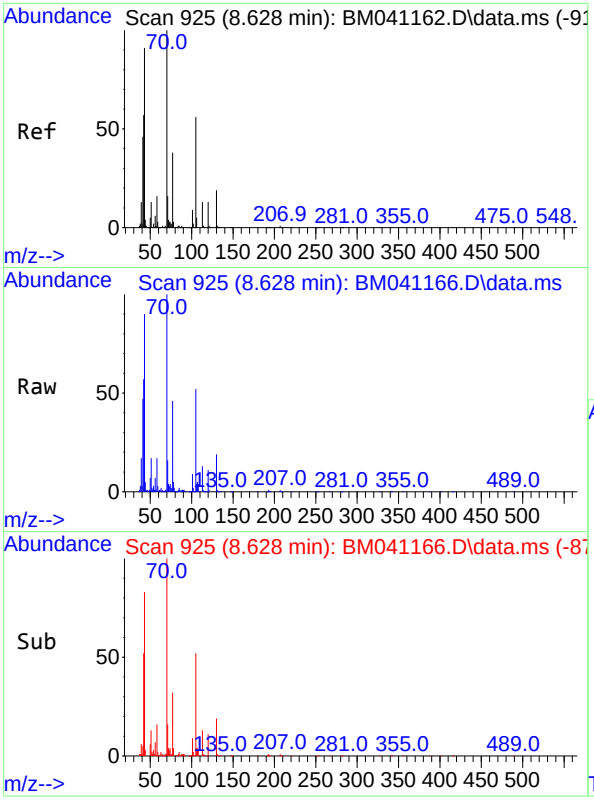


#18
Hexachloroethane
Concen: 41.025 ng
RT: 8.881 min Scan# 968
Delta R.T. 0.006 min
Lab File: BM041166.D
Acq: 28 Jul 2023 15:16

Tgt Ion:117 Resp: 226080

Ion	Ratio	Lower	Upper
117	100		
119	94.4	74.2	111.4
201	102.8	74.5	111.7

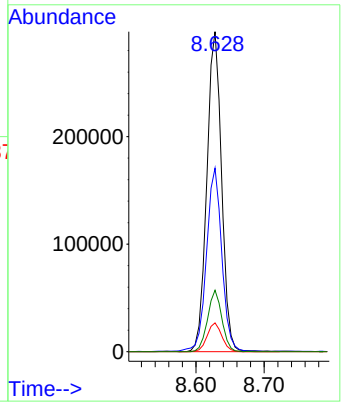




#19
n-Nitroso-di-n-propylamine
Concen: 41.032 ng
RT: 8.628 min Scan# 9
Delta R.T. 0.000 min
Lab File: BM041166.D
Acq: 28 Jul 2023 15:16

Tgt Ion: 70 Resp: 44770

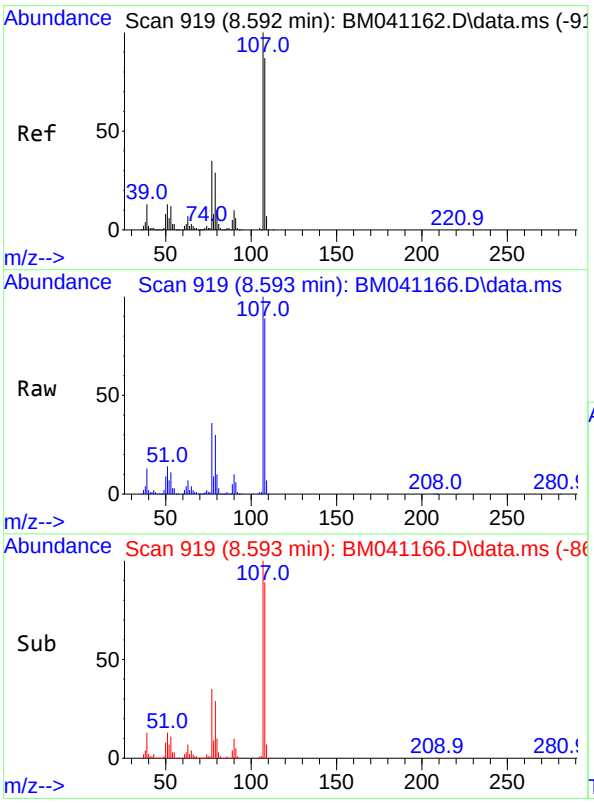
Ion	Ratio	Lower	Upper
70	100		
42	57.3	45.8	68.8
101	9.0	7.4	11.0
130	19.2	15.2	22.8



Instrument :
BNA_M
ClientSampleId :
ICVBM072823

Manual Integrations APPROVED

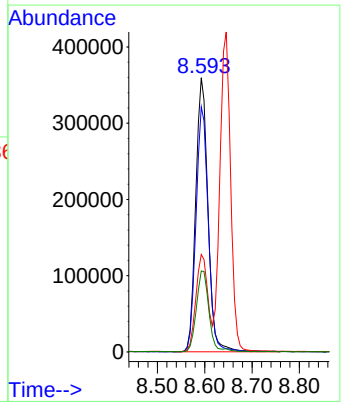
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

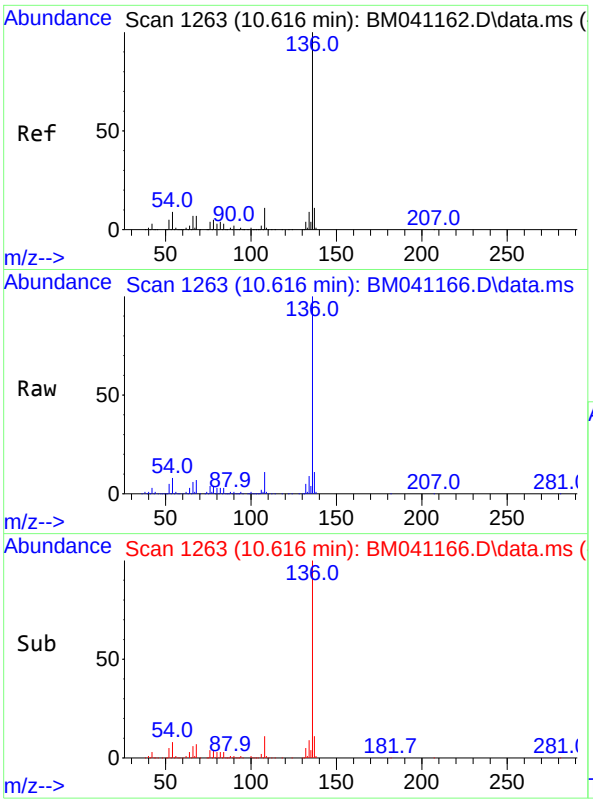


#20
3+4-Methylphenols
Concen: 40.779 ng
RT: 8.593 min Scan# 919
Delta R.T. 0.000 min
Lab File: BM041166.D
Acq: 28 Jul 2023 15:16

Tgt Ion:107 Resp: 646313

Ion	Ratio	Lower	Upper
107	100		
108	89.3	67.2	107.2
77	35.5	15.4	55.4
79	29.5	9.2	49.2

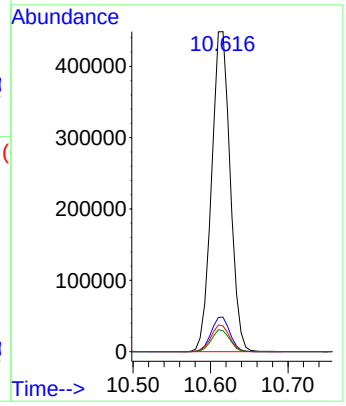




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.616 min Scan# 1
Delta R.T. -0.000 min
Lab File: BM041166.D
Acq: 28 Jul 2023 15:16

Tgt Ion:136 Resp: 74899

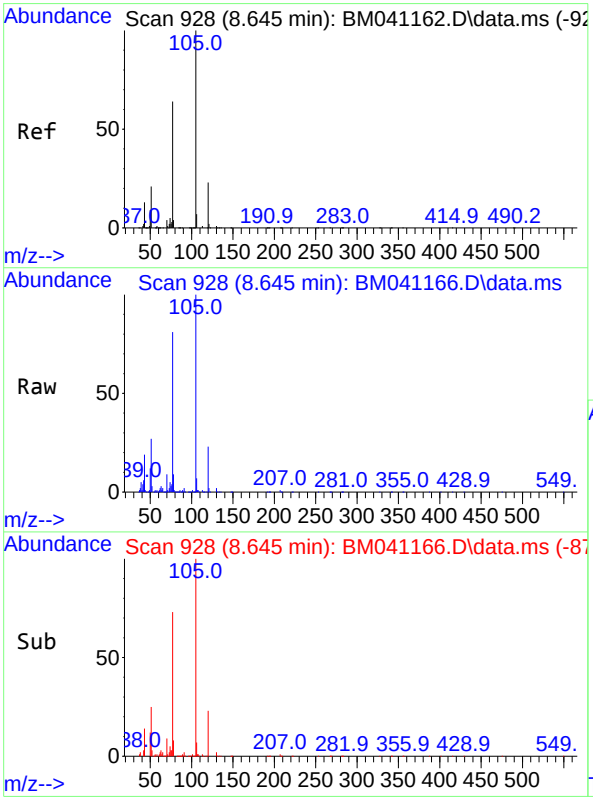
Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.8	13.2
54	8.1	6.9	10.3
68	6.5	5.4	8.2



Instrument :
BNA_M
ClientSampleId :
ICVBM072823

Manual Integrations
APPROVED

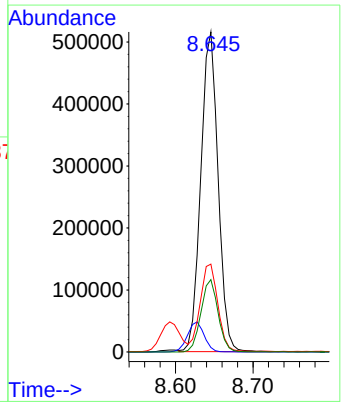
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

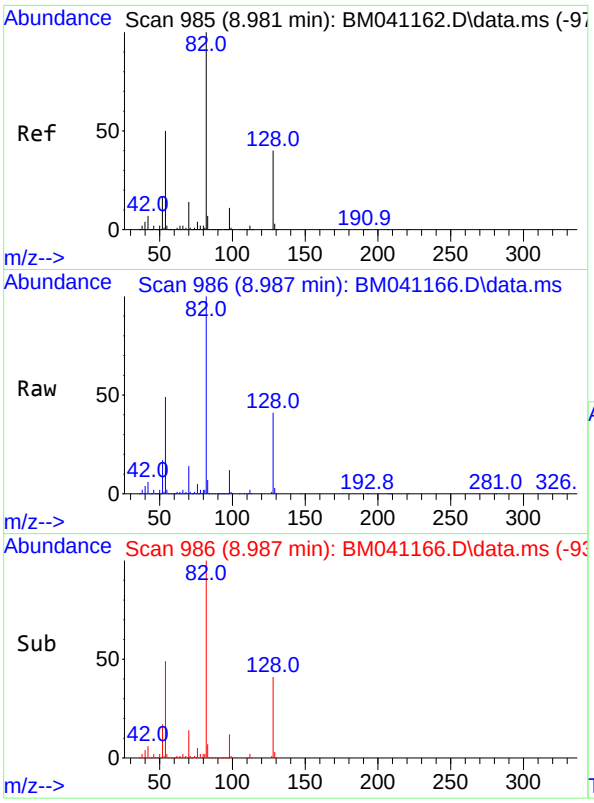


#22
Acetophenone
Concen: 40.250 ng
RT: 8.645 min Scan# 928
Delta R.T. 0.000 min
Lab File: BM041166.D
Acq: 28 Jul 2023 15:16

Tgt Ion:105 Resp: 798436

Ion	Ratio	Lower	Upper
105	100		
71	1.4	1.2	1.8
51	27.4	22.0	33.0
120	22.6	18.0	27.0

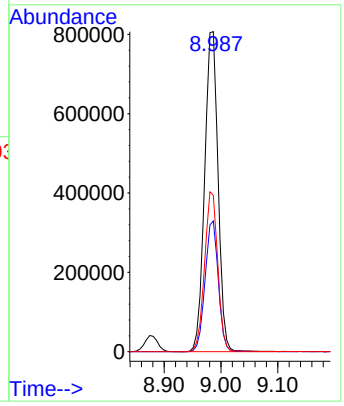




#23
Nitrobenzene-d5
Concen: 82.190 ng
RT: 8.987 min Scan# 9
Delta R.T. 0.006 min
Lab File: BM041166.D
Acq: 28 Jul 2023 15:16

Tgt Ion: 82 Resp: 132374

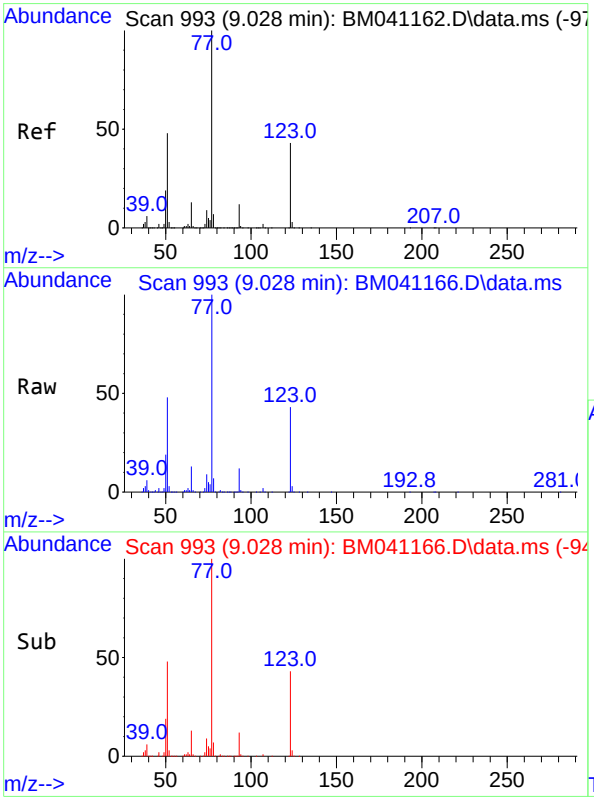
Ion	Ratio	Lower	Upper
82	100		
128	40.9	31.8	47.6
54	48.9	40.1	60.1



Instrument :
BNA_M
ClientSampleId :
ICVBM072823

Manual Integrations
APPROVED

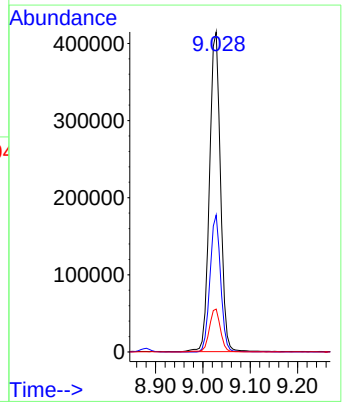
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

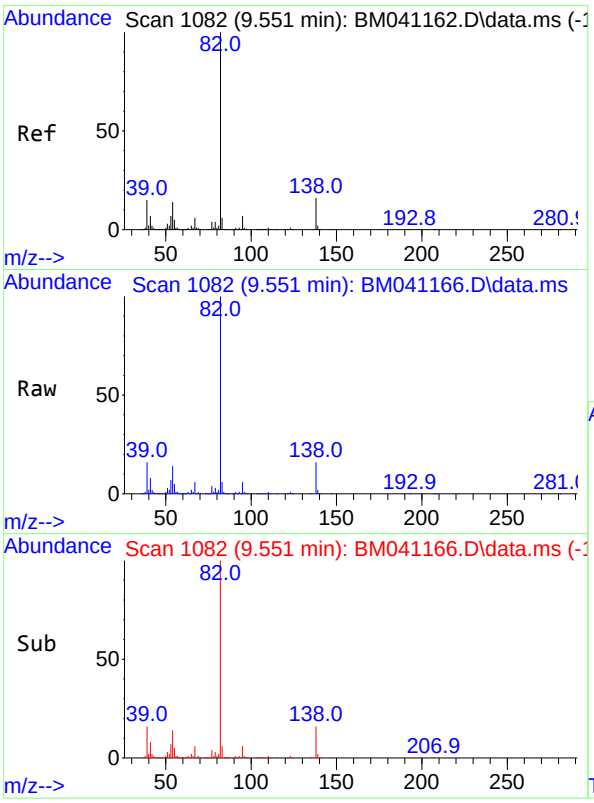


#24
Nitrobenzene
Concen: 40.898 ng
RT: 9.028 min Scan# 993
Delta R.T. 0.000 min
Lab File: BM041166.D
Acq: 28 Jul 2023 15:16

Tgt Ion: 77 Resp: 666132

Ion	Ratio	Lower	Upper
77	100		
123	42.8	34.2	51.2
65	13.4	10.7	16.1

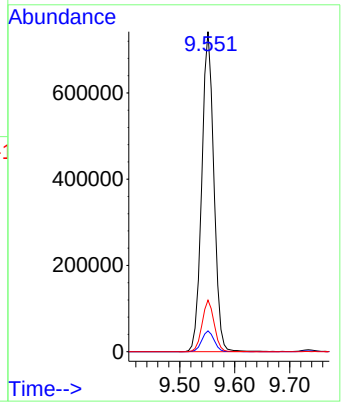




#25
Isophorone
Concen: 41.538 ng
RT: 9.551 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM041166.D
Acq: 28 Jul 2023 15:16

Tgt Ion: 82 Resp: 113565

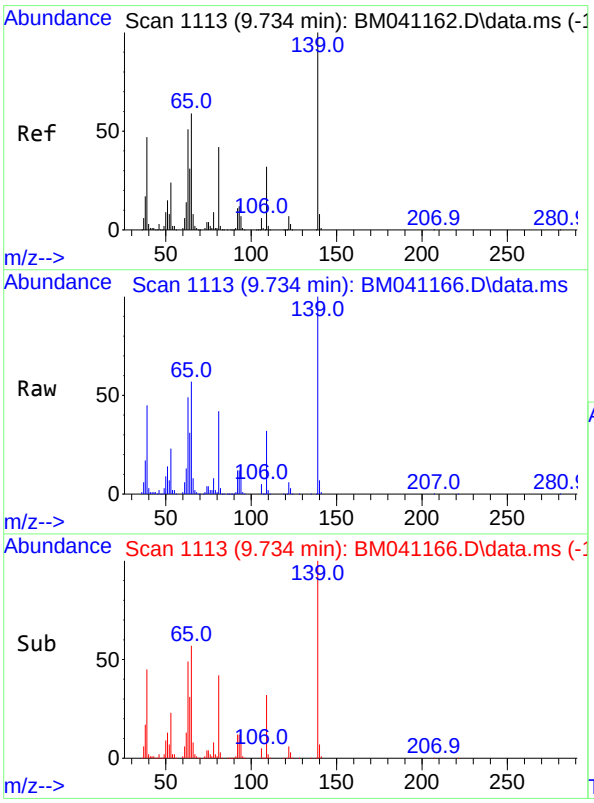
Ion	Ratio	Lower	Upper
82	100		
95	6.5	5.3	7.9
138	16.1	12.8	19.2



Instrument :
BNA_M
ClientSampleId :
ICVBM072823

Manual Integrations APPROVED

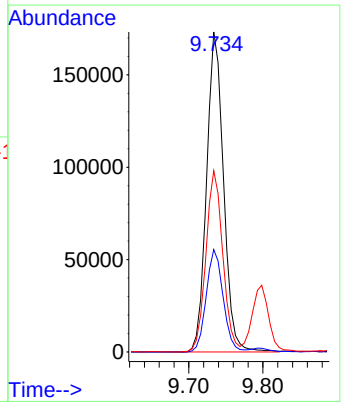
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

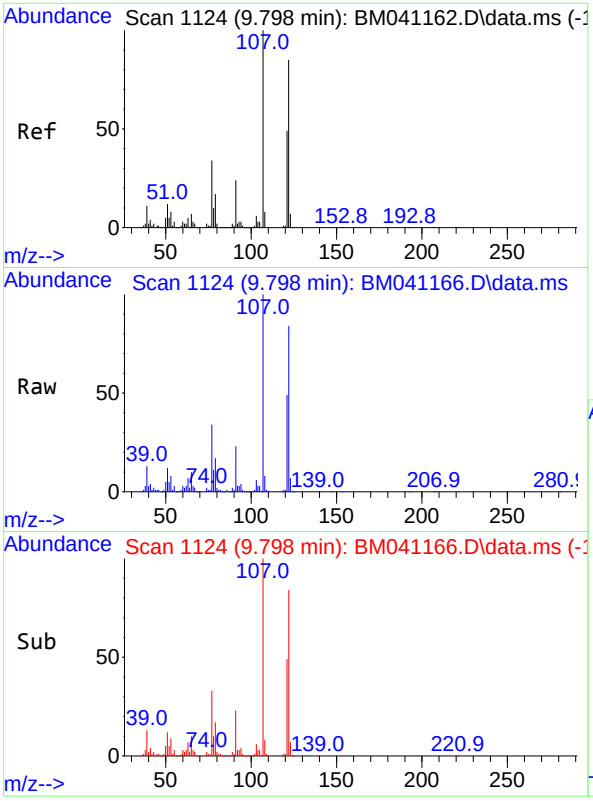


#26
2-Nitrophenol
Concen: 43.261 ng
RT: 9.734 min Scan# 1113
Delta R.T. 0.000 min
Lab File: BM041166.D
Acq: 28 Jul 2023 15:16

Tgt Ion:139 Resp: 275452

Ion	Ratio	Lower	Upper
139	100		
109	32.0	25.4	38.2
65	56.7	47.2	70.8

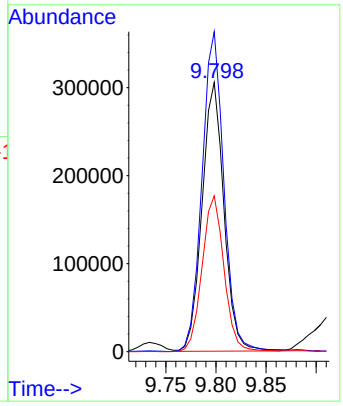




#27
2,4-Dimethylphenol
Concen: 41.418 ng
RT: 9.798 min Scan# 11
Delta R.T. 0.000 min
Lab File: BM041166.D
Acq: 28 Jul 2023 15:16

Tgt Ion:122 Resp: 46405

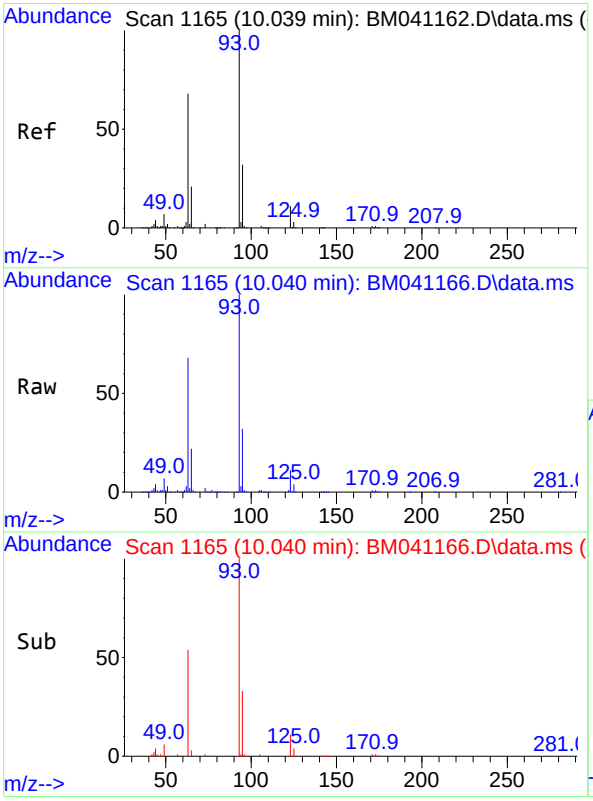
Ion	Ratio	Lower	Upper
122	100		
107	118.8	94.3	141.5
121	57.9	45.8	68.8



Instrument :
BNA_M
ClientSampleId :
ICVBM072823

Manual Integrations
APPROVED

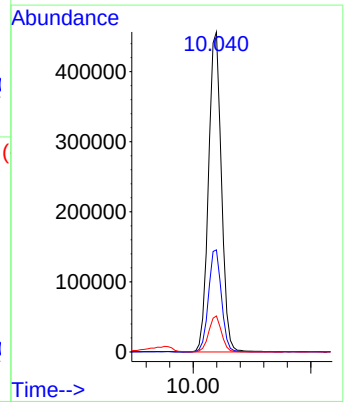
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

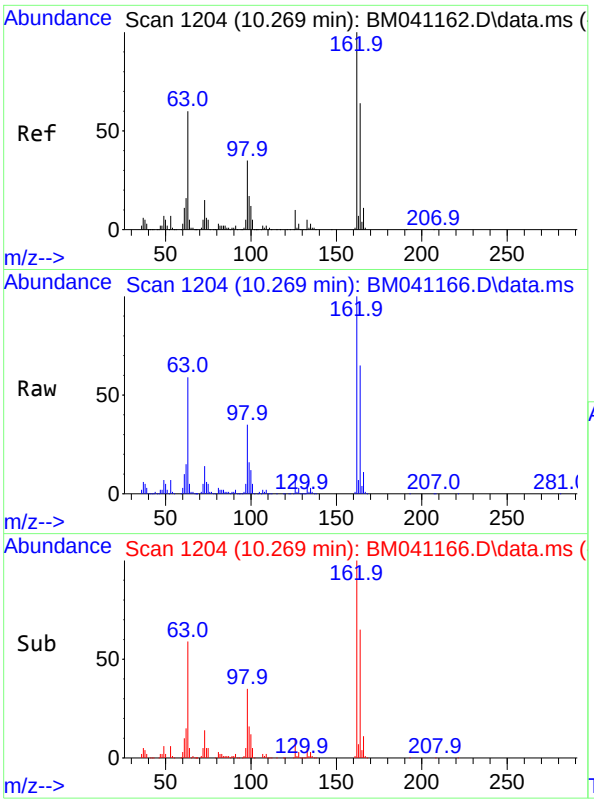


#28
bis(2-Chloroethoxy)methane
Concen: 40.583 ng
RT: 10.040 min Scan# 1165
Delta R.T. 0.000 min
Lab File: BM041166.D
Acq: 28 Jul 2023 15:16

Tgt Ion: 93 Resp: 695021

Ion	Ratio	Lower	Upper
93	100		
95	31.9	25.9	38.9
123	11.2	9.1	13.7





#29
2,4-Dichlorophenol
Concen: 41.972 ng
RT: 10.269 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM041166.D
Acq: 28 Jul 2023 15:16

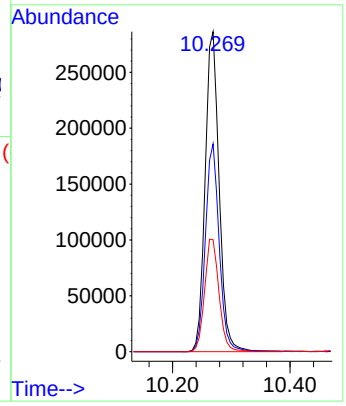
Tgt Ion:162 Resp: 47423

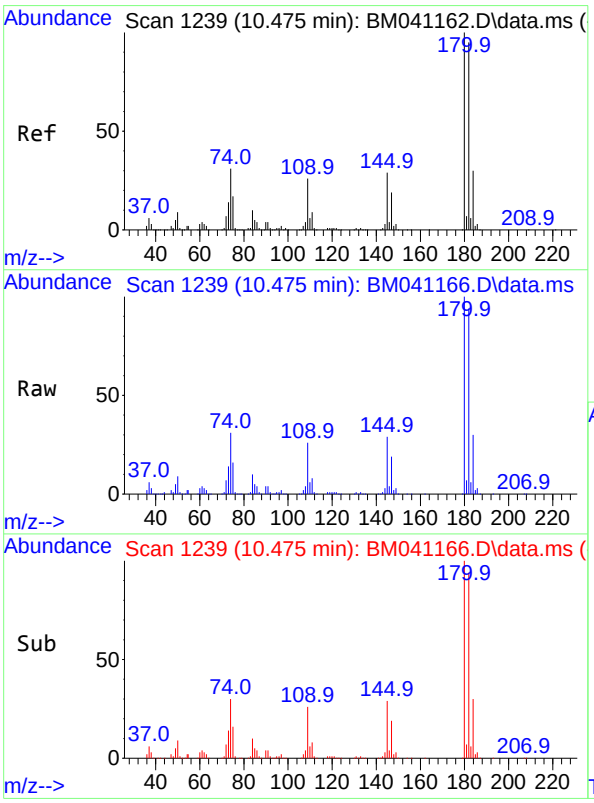
Ion	Ratio	Lower	Upper
162	100		
164	64.9	44.3	84.3
98	35.0	15.1	55.1

Instrument :
BNA_M
ClientSampleId :
ICVBM072823

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

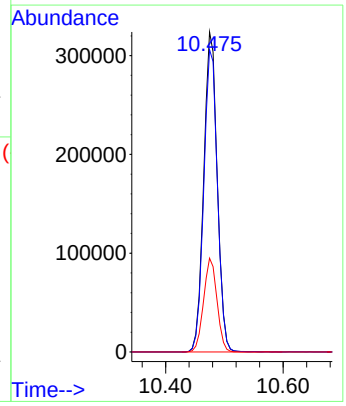


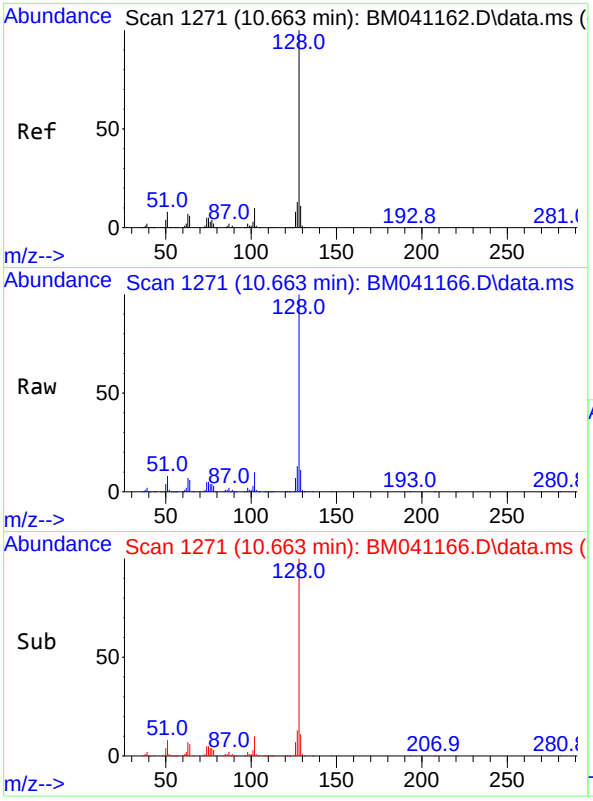


#30
1,2,4-Trichlorobenzene
Concen: 41.295 ng
RT: 10.475 min Scan# 1239
Delta R.T. 0.000 min
Lab File: BM041166.D
Acq: 28 Jul 2023 15:16

Tgt Ion:180 Resp: 515502

Ion	Ratio	Lower	Upper
180	100		
182	94.4	75.9	113.9
145	29.3	23.6	35.4

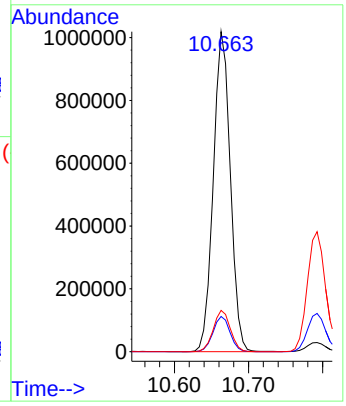




#31
Naphthalene
Concen: 39.924 ng
RT: 10.663 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM041166.D
Acq: 28 Jul 2023 15:16

Tgt Ion:128 Resp: 162270

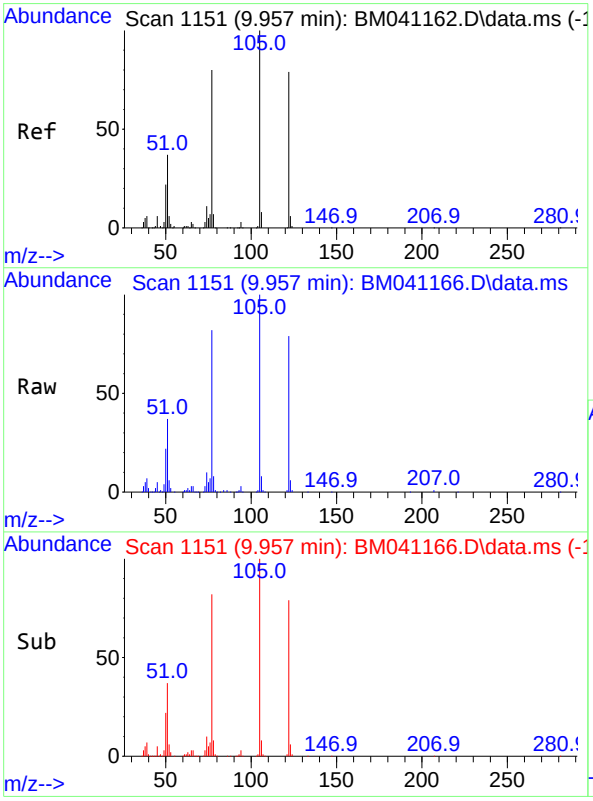
Ion	Ratio	Lower	Upper
128	100		
129	11.0	9.0	13.4
127	12.9	10.5	15.7



Instrument :
BNA_M
ClientSampleId :
ICVBM072823

Manual Integrations
APPROVED

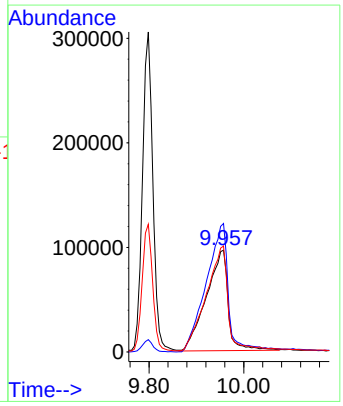
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

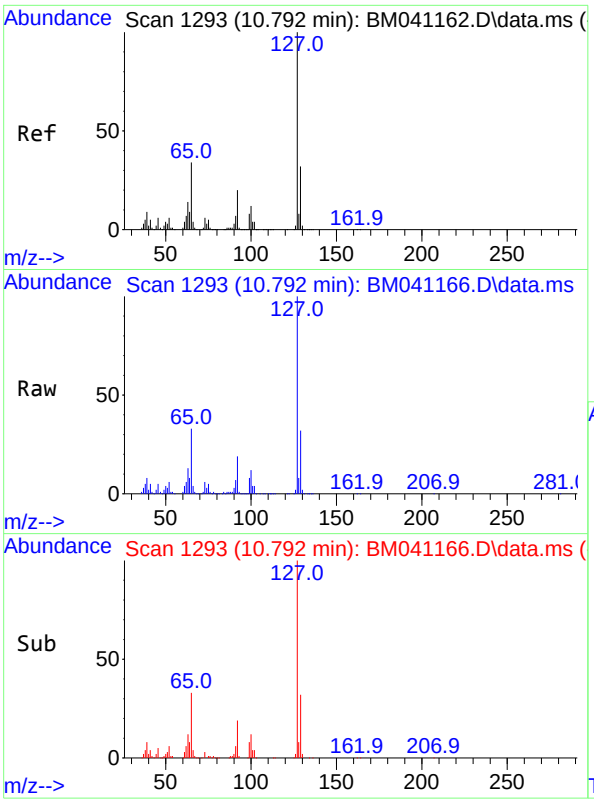


#32
Benzoic acid
Concen: 38.460 ng
RT: 9.957 min Scan# 1151
Delta R.T. 0.000 min
Lab File: BM041166.D
Acq: 28 Jul 2023 15:16

Tgt Ion:122 Resp: 309569

Ion	Ratio	Lower	Upper
122	100		
105	126.1	104.0	144.0
77	104.0	79.9	119.9

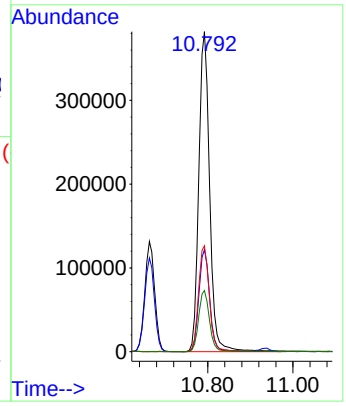




#33
4-Chloroaniline
Concen: 41.475 ng
RT: 10.792 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM041166.D
Acq: 28 Jul 2023 15:16

Tgt Ion:127 Resp: 67367

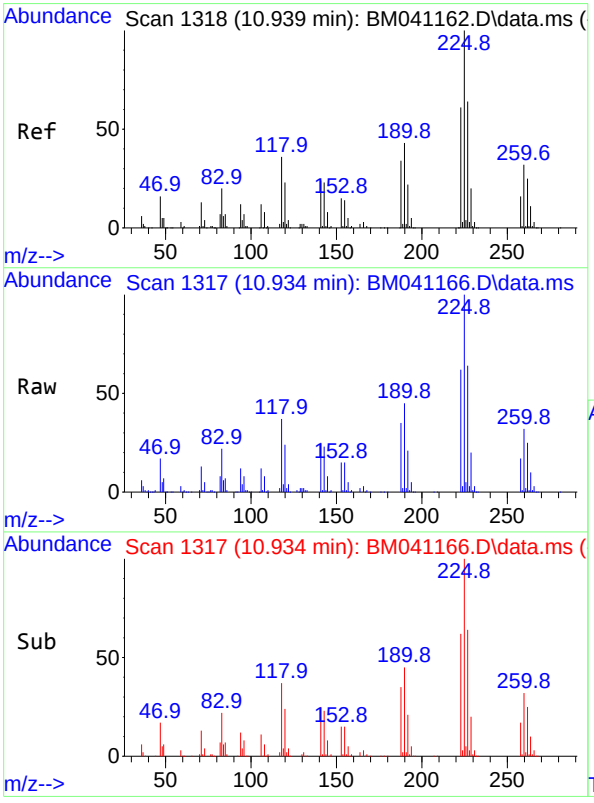
Ion	Ratio	Lower	Upper
127	100		
129	31.9	25.9	38.9
65	33.1	26.9	40.3
92	19.1	15.8	23.6



Instrument :
BNA_M
ClientSampleId :
ICVBM072823

Manual Integrations APPROVED

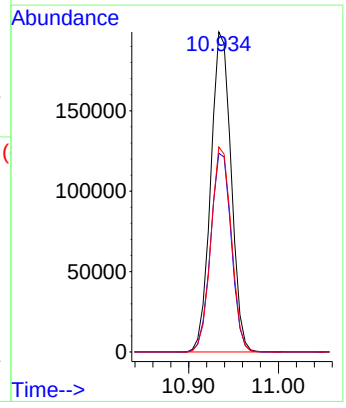
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

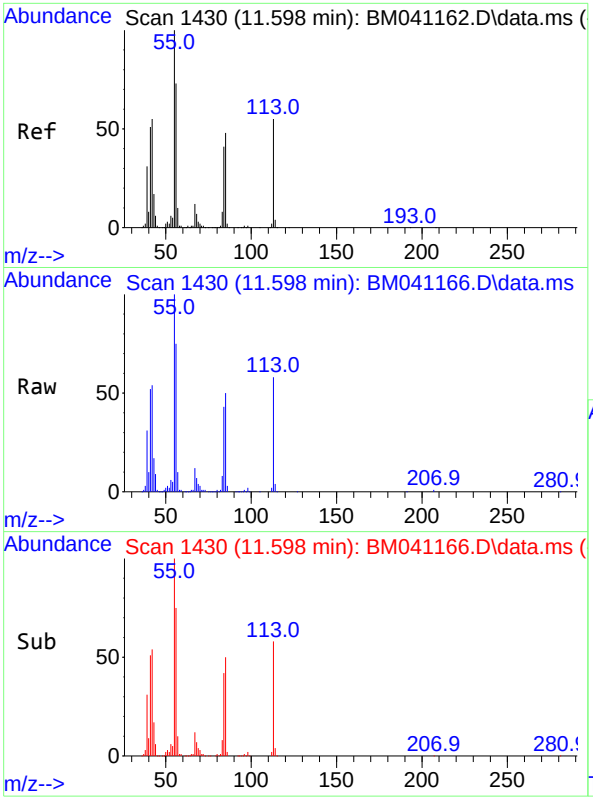


#34
Hexachlorobutadiene
Concen: 41.707 ng
RT: 10.934 min Scan# 1317
Delta R.T. -0.006 min
Lab File: BM041166.D
Acq: 28 Jul 2023 15:16

Tgt Ion:225 Resp: 313133

Ion	Ratio	Lower	Upper
225	100		
223	62.1	49.0	73.4
227	64.0	50.8	76.2

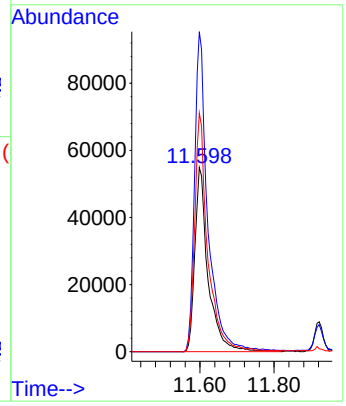




#35
Caprolactam
Concen: 41.763 ng
RT: 11.598 min Scan# 14
Delta R.T. 0.000 min
Lab File: BM041166.D
Acq: 28 Jul 2023 15:16

Tgt Ion:113 Resp: 13650

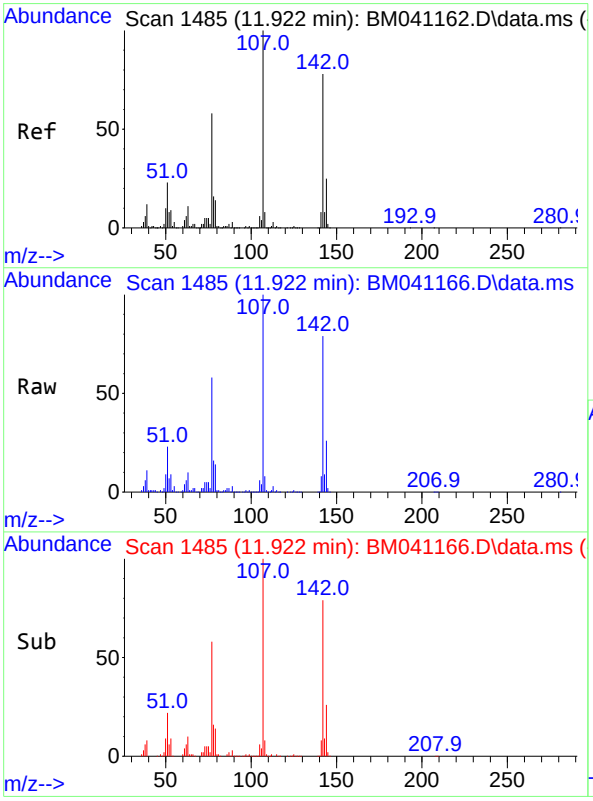
Ion	Ratio	Lower	Upper
113	100		
55	173.8	162.5	202.5
56	129.6	114.1	154.1



Instrument :
BNA_M
ClientSampleId :
ICVBM072823

Manual Integrations
APPROVED

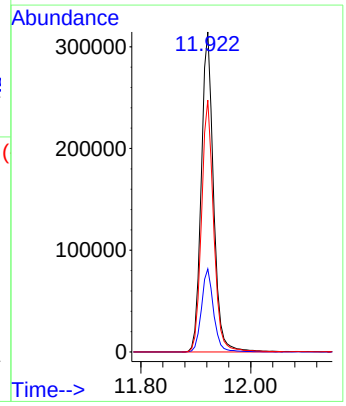
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

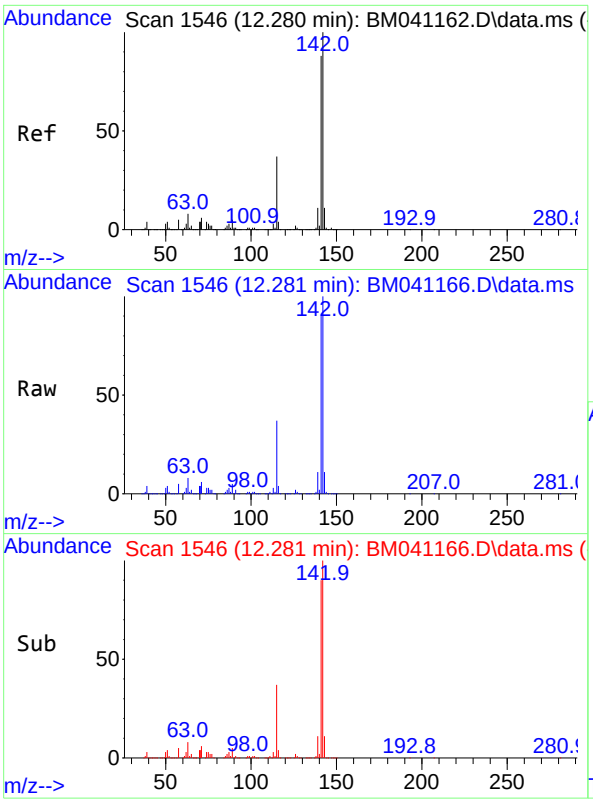


#36
4-Chloro-3-methylphenol
Concen: 40.967 ng
RT: 11.922 min Scan# 1485
Delta R.T. 0.000 min
Lab File: BM041166.D
Acq: 28 Jul 2023 15:16

Tgt Ion:107 Resp: 487191

Ion	Ratio	Lower	Upper
107	100		
144	25.9	20.1	30.1
142	78.7	62.2	93.4

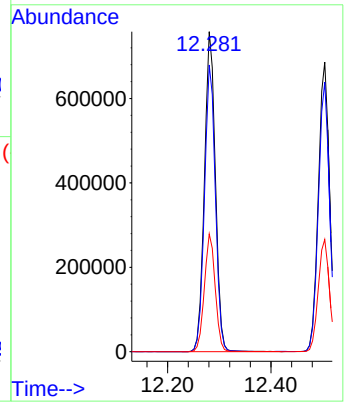




#37
2-Methylnaphthalene
Concen: 40.605 ng
RT: 12.281 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM041166.D
Acq: 28 Jul 2023 15:16

Tgt Ion:142 Resp: 111267

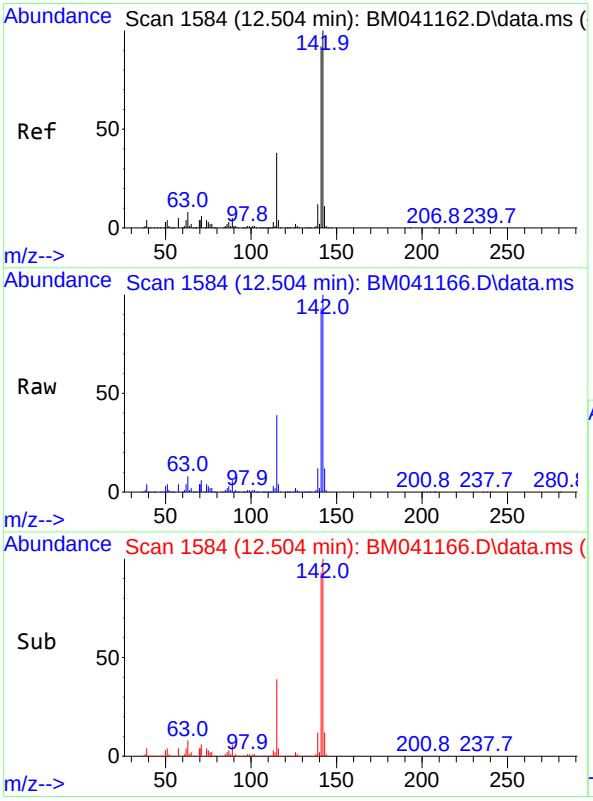
Ion	Ratio	Lower	Upper
142	100		
141	89.6	70.7	106.1
115	36.8	29.3	43.9



Instrument :
BNA_M
ClientSampleId :
ICVBM072823

Manual Integrations
APPROVED

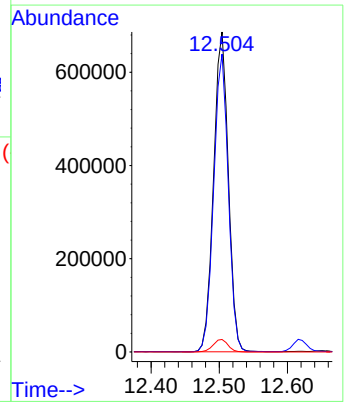
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

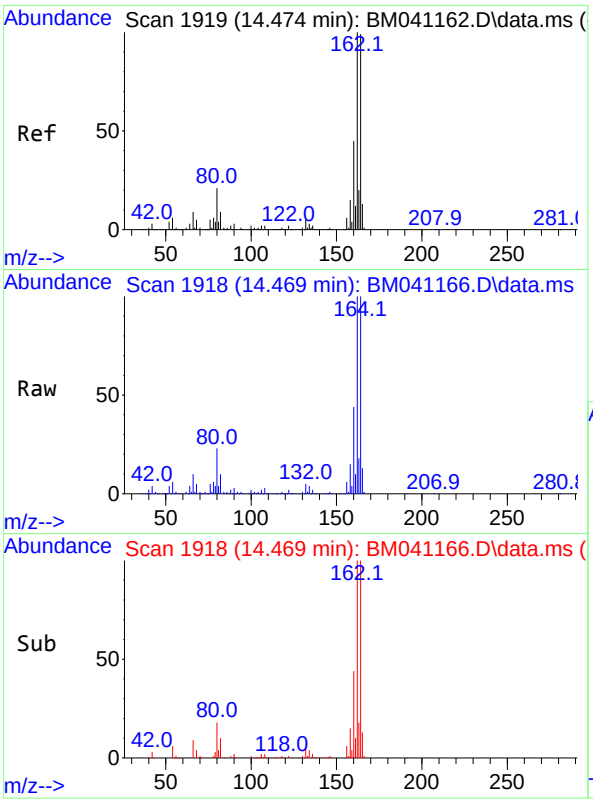


#38
1-Methylnaphthalene
Concen: 40.268 ng
RT: 12.504 min Scan# 1584
Delta R.T. 0.000 min
Lab File: BM041166.D
Acq: 28 Jul 2023 15:16

Tgt Ion:142 Resp: 1032730

Ion	Ratio	Lower	Upper
142	100		
141	93.1	73.4	110.2
116	3.9	3.2	4.8

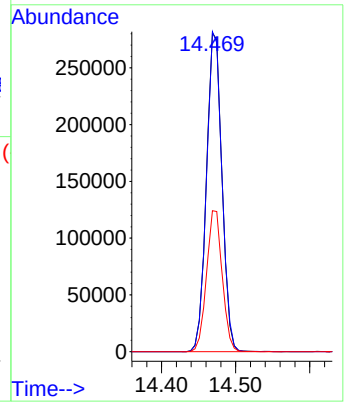




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.469 min Scan# 1
Delta R.T. -0.005 min
Lab File: BM041166.D
Acq: 28 Jul 2023 15:16

Tgt Ion:164 Resp: 40773

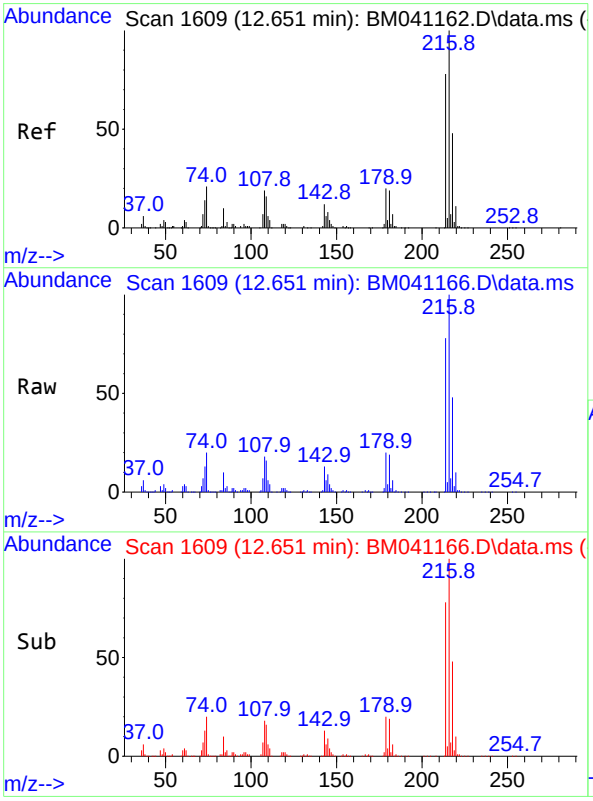
Ion	Ratio	Lower	Upper
164	100		
162	100.4	80.4	120.6
160	44.2	36.2	54.2



Instrument :
BNA_M
ClientSampleId :
ICVBM072823

Manual Integrations APPROVED

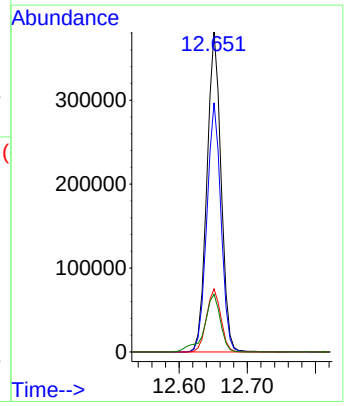
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

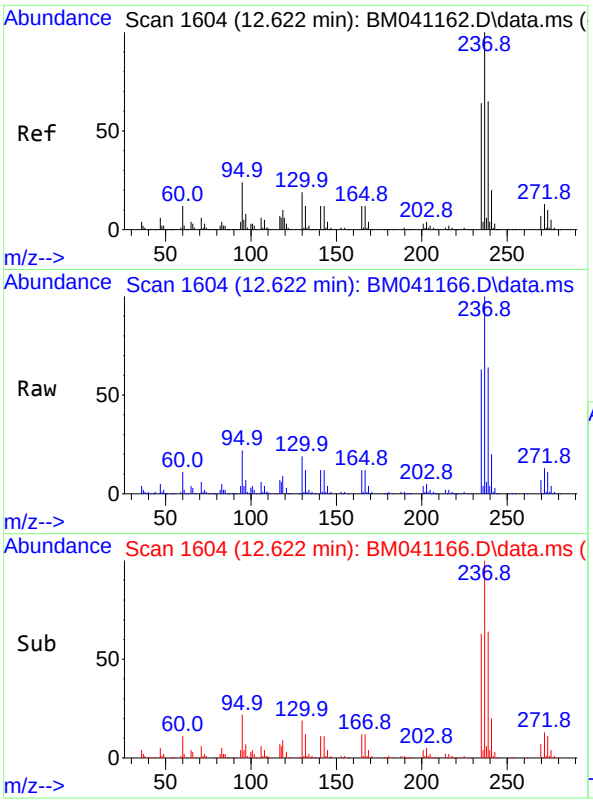


#40
1,2,4,5-Tetrachlorobenzene
Concen: 41.458 ng
RT: 12.651 min Scan# 1609
Delta R.T. 0.000 min
Lab File: BM041166.D
Acq: 28 Jul 2023 15:16

Tgt Ion:216 Resp: 548886

Ion	Ratio	Lower	Upper
216	100		
214	77.9	63.2	94.8
179	20.0	16.2	24.2
108	20.5	17.0	25.4

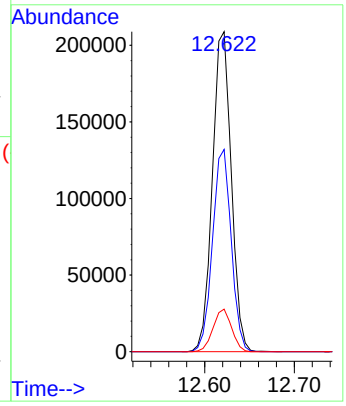




#41
Hexachlorocyclopentadiene
Concen: 43.543 ng
RT: 12.622 min Scan# 1
Delta R.T. -0.000 min
Lab File: BM041166.D
Acq: 28 Jul 2023 15:16

Tgt Ion:237 Resp: 30499

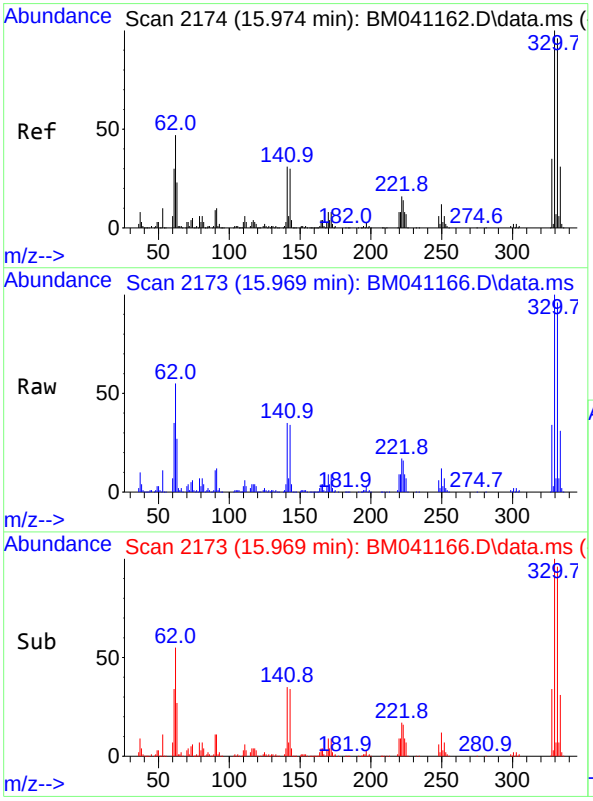
Ion	Ratio	Lower	Upper
237	100		
235	63.2	43.6	83.6
272	13.3	0.0	33.3



Instrument :
BNA_M
ClientSampleId :
ICVBM072823

Manual Integrations
APPROVED

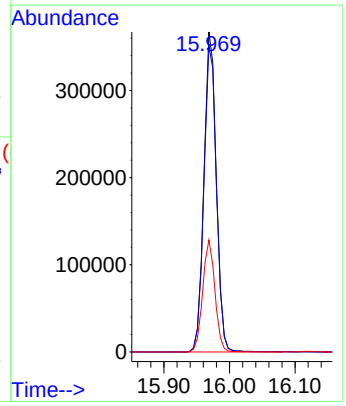
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

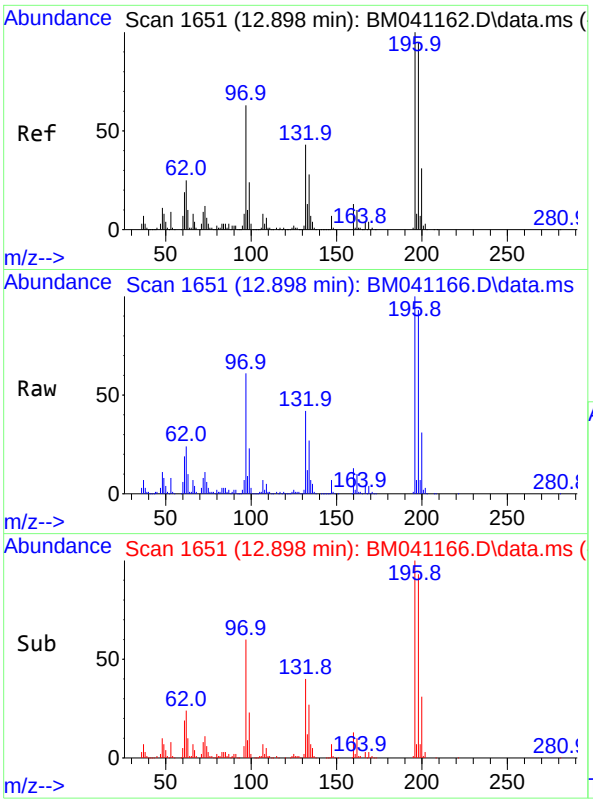


#42
2,4,6-Tribromophenol
Concen: 83.546 ng
RT: 15.969 min Scan# 2173
Delta R.T. -0.006 min
Lab File: BM041166.D
Acq: 28 Jul 2023 15:16

Tgt Ion:330 Resp: 481822

Ion	Ratio	Lower	Upper
330	100		
332	96.9	77.7	116.5
141	34.7	28.3	42.5

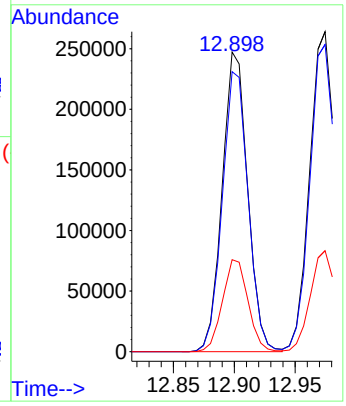




#43
2,4,6-Trichlorophenol
Concen: 42.396 ng
RT: 12.898 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM041166.D
Acq: 28 Jul 2023 15:16

Tgt Ion:196 Resp: 35975

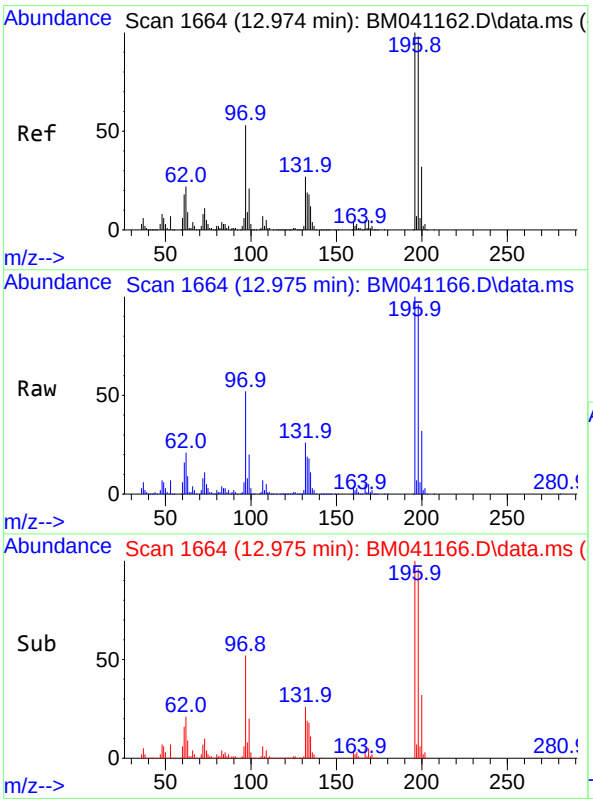
Ion	Ratio	Lower	Upper
196	100		
198	93.4	76.2	114.4
200	30.7	24.6	36.8



Instrument :
BNA_M
ClientSampleId :
ICVBM072823

Manual Integrations
APPROVED

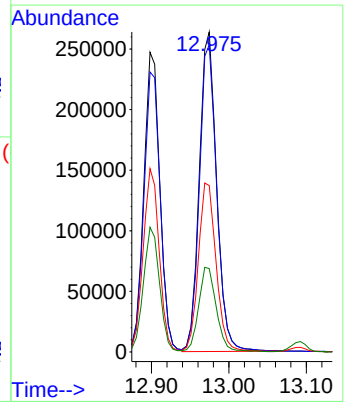
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

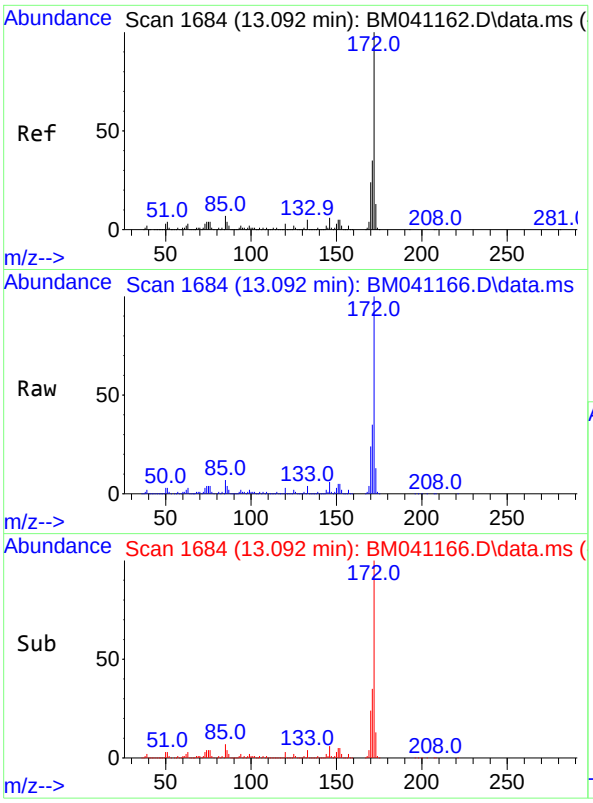


#44
2,4,5-Trichlorophenol
Concen: 41.723 ng
RT: 12.975 min Scan# 1664
Delta R.T. 0.001 min
Lab File: BM041166.D
Acq: 28 Jul 2023 15:16

Tgt Ion:196 Resp: 409792

Ion	Ratio	Lower	Upper
196	100		
198	96.0	78.2	117.4
97	52.0	42.7	64.1
132	26.0	21.6	32.4

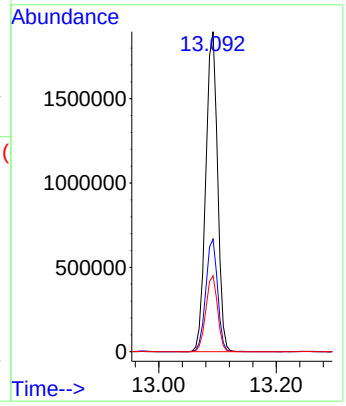




#45
2-Fluorobiphenyl
Concen: 81.770 ng
RT: 13.092 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BM041166.D
Acq: 28 Jul 2023 15:16

Tgt Ion:172 Resp: 263924

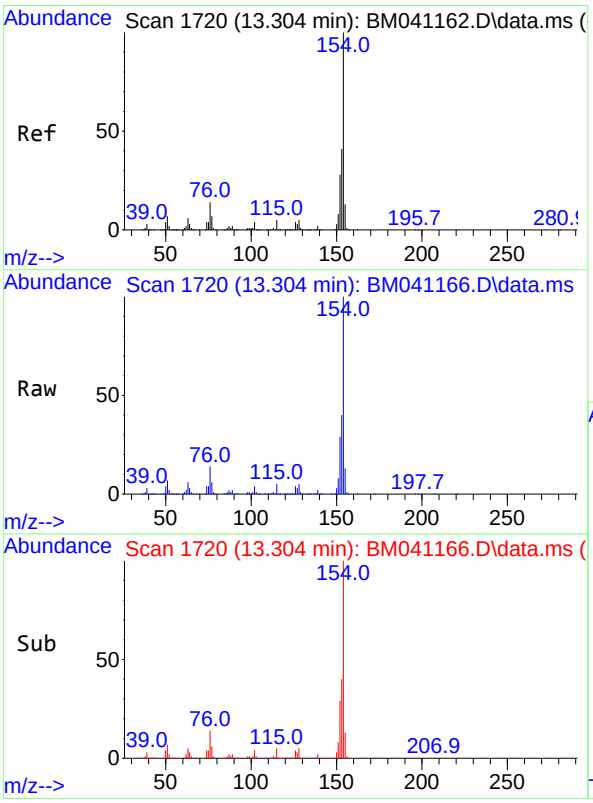
Ion	Ratio	Lower	Upper
172	100		
171	35.2	28.1	42.1
170	23.8	18.9	28.3



Instrument :
BNA_M
ClientSampleId :
ICVBM072823

Manual Integrations
APPROVED

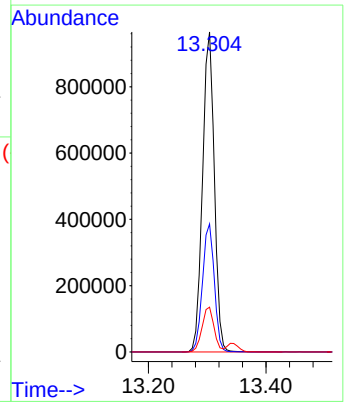
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

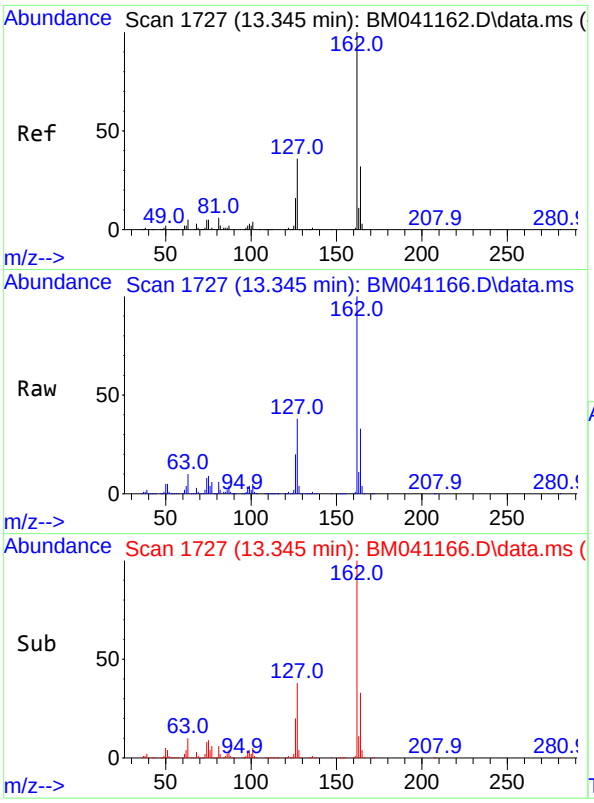


#46
1,1'-Biphenyl
Concen: 40.560 ng
RT: 13.304 min Scan# 1720
Delta R.T. 0.000 min
Lab File: BM041166.D
Acq: 28 Jul 2023 15:16

Tgt Ion:154 Resp: 1340694

Ion	Ratio	Lower	Upper
154	100		
153	40.0	20.5	60.5
76	14.0	0.0	34.1

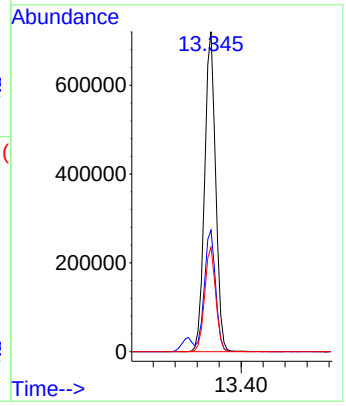




#47
2-Chloronaphthalene
Concen: 40.683 ng
RT: 13.345 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM041166.D
Acq: 28 Jul 2023 15:16

Tgt Ion:162 Resp: 100409

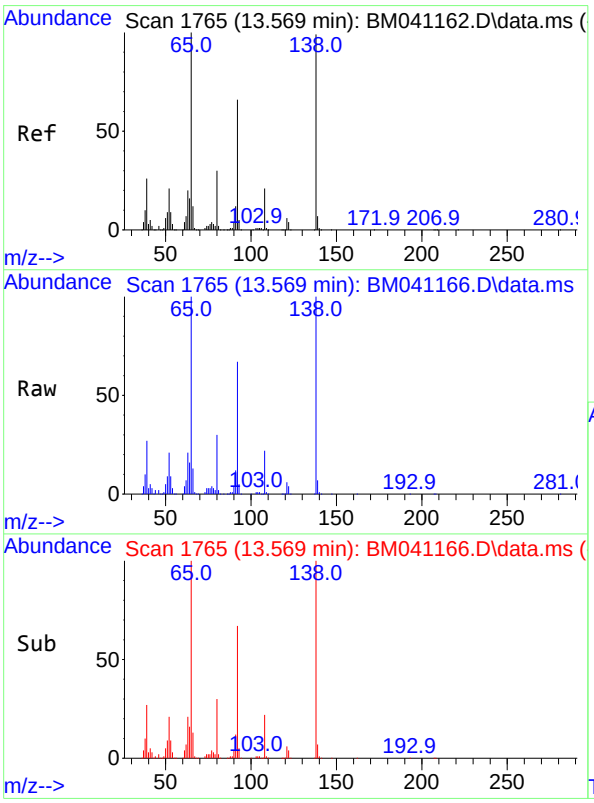
Ion	Ratio	Lower	Upper
162	100		
127	38.0	30.6	45.8
164	32.6	25.6	38.4



Instrument :
BNA_M
ClientSampleId :
ICVBM072823

Manual Integrations
APPROVED

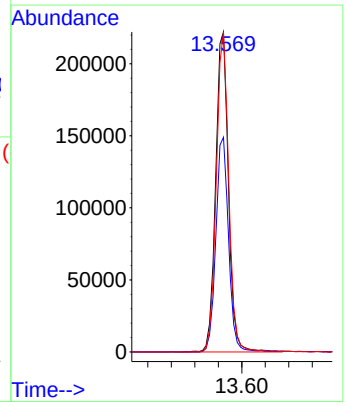
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

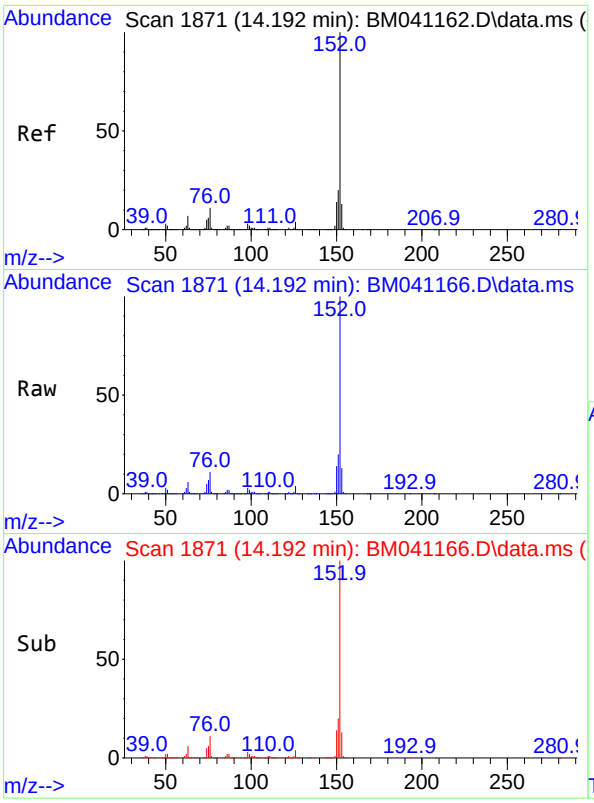


#48
2-Nitroaniline
Concen: 42.415 ng
RT: 13.569 min Scan# 1765
Delta R.T. -0.000 min
Lab File: BM041166.D
Acq: 28 Jul 2023 15:16

Tgt Ion: 65 Resp: 334152

Ion	Ratio	Lower	Upper
65	100		
92	67.1	53.0	79.4
138	100.0	79.1	118.7

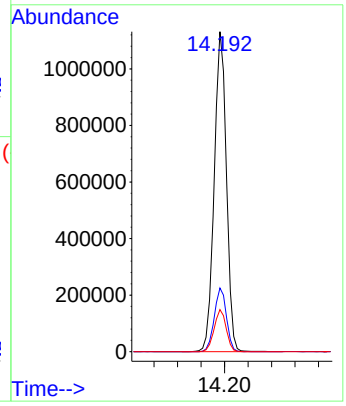




#49
Acenaphthylene
Concen: 40.739 ng
RT: 14.192 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM041166.D
Acq: 28 Jul 2023 15:16

Tgt Ion:152 Resp: 162290

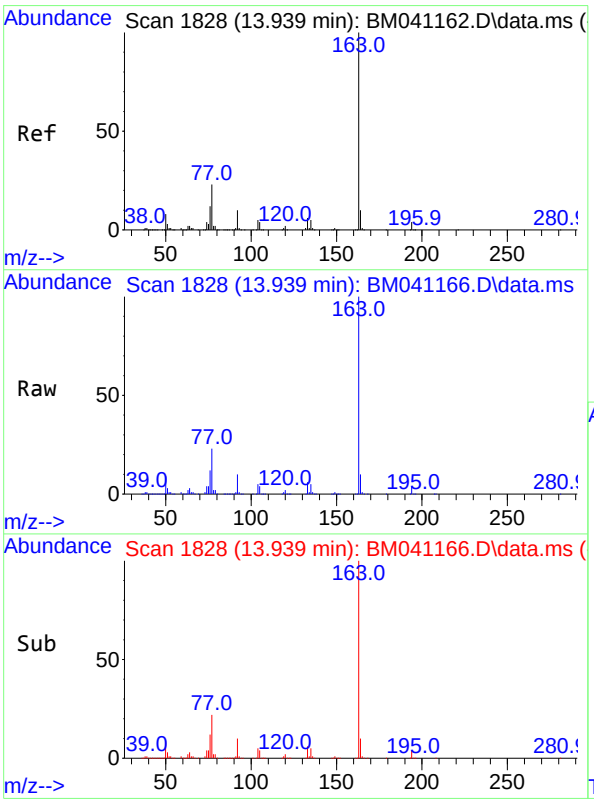
Ion	Ratio	Lower	Upper
152	100		
151	19.9	16.1	24.1
153	13.2	10.5	15.7



Instrument :
BNA_M
ClientSampleId :
ICVBM072823

Manual Integrations
APPROVED

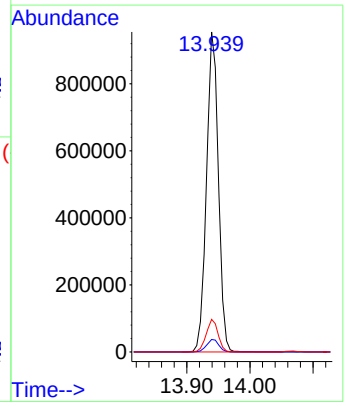
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

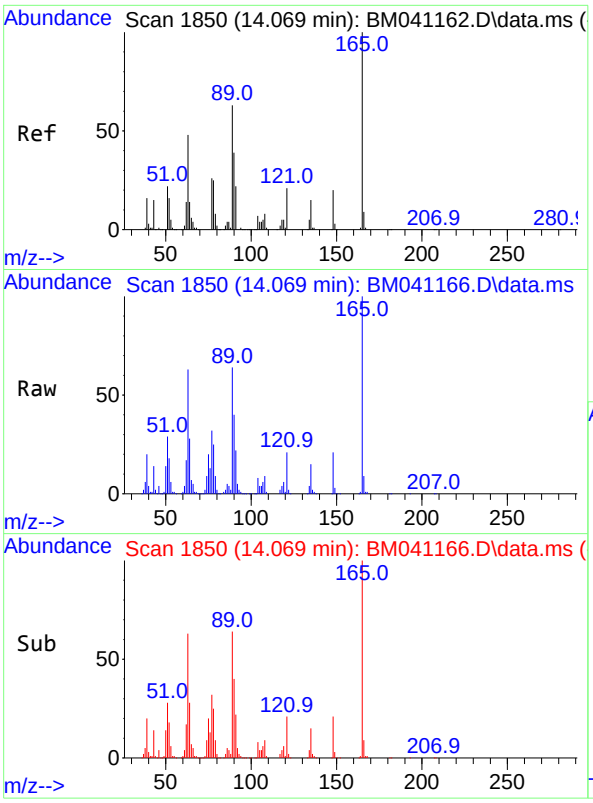


#50
Dimethylphthalate
Concen: 40.683 ng
RT: 13.939 min Scan# 1828
Delta R.T. 0.000 min
Lab File: BM041166.D
Acq: 28 Jul 2023 15:16

Tgt Ion:163 Resp: 1247741

Ion	Ratio	Lower	Upper
163	100		
194	3.9	3.3	4.9
164	10.2	8.3	12.5

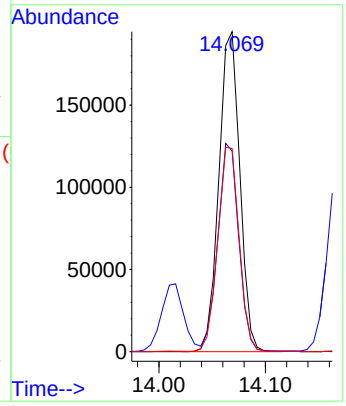




#51
2,6-Dinitrotoluene
Concen: 41.734 ng
RT: 14.069 min Scan# 1
Delta R.T. -0.000 min
Lab File: BM041166.D
Acq: 28 Jul 2023 15:16

Tgt Ion:165 Resp: 26521

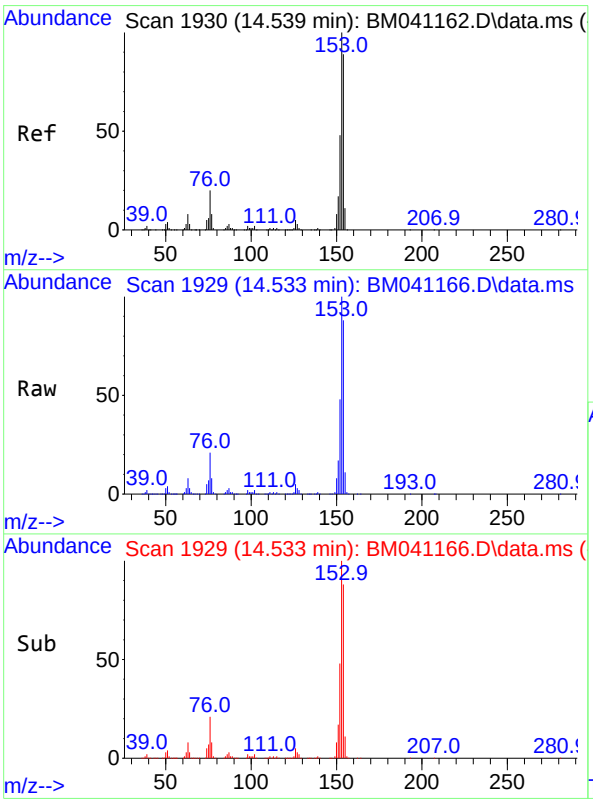
Ion	Ratio	Lower	Upper
165	100		
63	62.7	50.9	76.3
89	63.5	50.6	76.0



Instrument :
BNA_M
ClientSampleId :
ICVBM072823

Manual Integrations
APPROVED

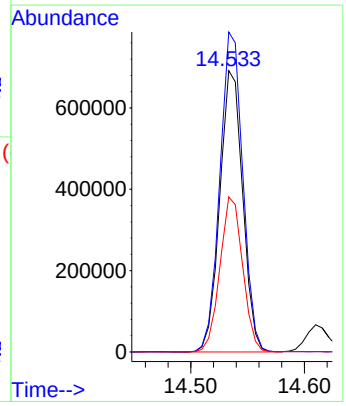
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

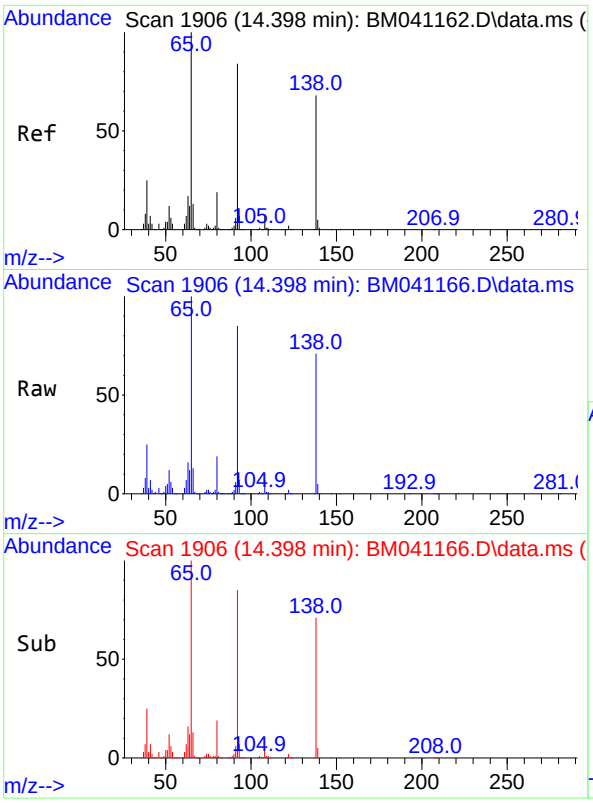


#52
Acenaphthene
Concen: 40.387 ng
RT: 14.533 min Scan# 1929
Delta R.T. -0.006 min
Lab File: BM041166.D
Acq: 28 Jul 2023 15:16

Tgt Ion:154 Resp: 969239

Ion	Ratio	Lower	Upper
154	100		
153	113.8	90.2	135.4
152	55.1	43.4	65.0

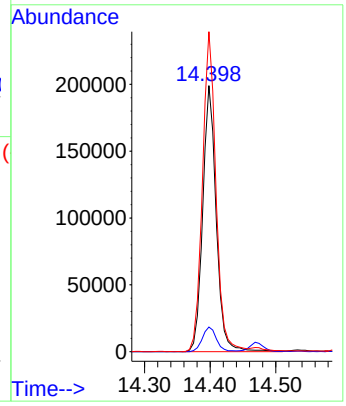




#53
3-Nitroaniline
Concen: 39.274 ng
RT: 14.398 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM041166.D
Acq: 28 Jul 2023 15:16

Tgt Ion:138 Resp: 28516

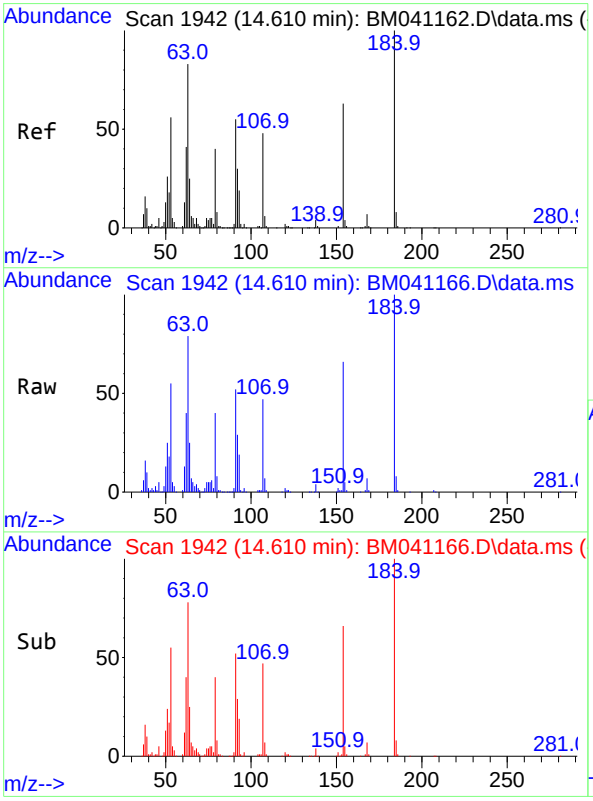
Ion	Ratio	Lower	Upper
138	100		
108	9.3	7.6	11.4
92	120.3	98.9	148.3



Instrument :
BNA_M
ClientSampleId :
ICVBM072823

Manual Integrations APPROVED

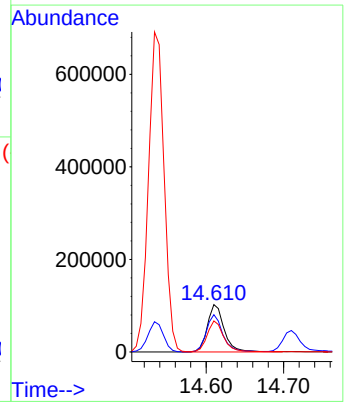
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

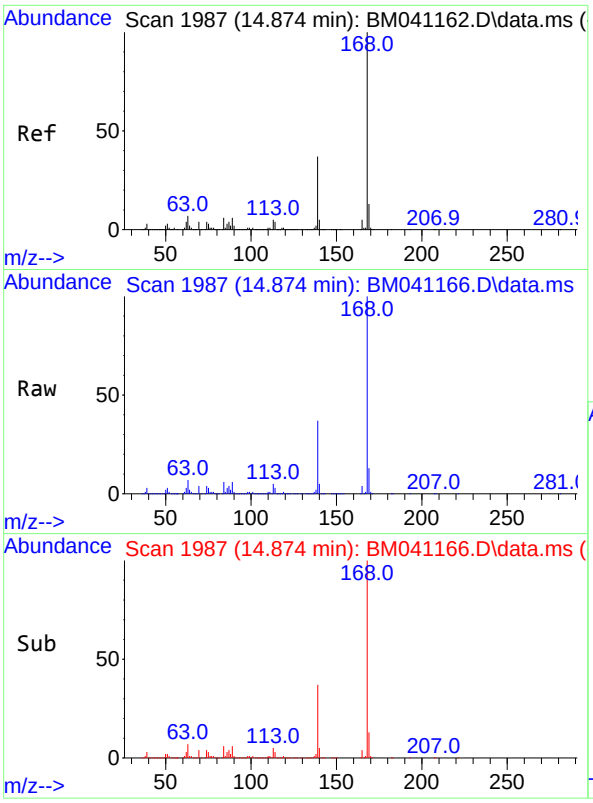


#54
2,4-Dinitrophenol
Concen: 39.049 ng
RT: 14.610 min Scan# 1942
Delta R.T. -0.000 min
Lab File: BM041166.D
Acq: 28 Jul 2023 15:16

Tgt Ion:184 Resp: 153750

Ion	Ratio	Lower	Upper
184	100		
63	78.8	66.5	99.7
154	65.6	52.8	79.2

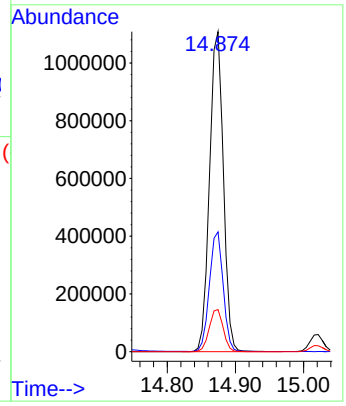




#55
Dibenzofuran
Concen: 39.974 ng
RT: 14.874 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM041166.D
Acq: 28 Jul 2023 15:16

Tgt Ion:168 Resp: 156518

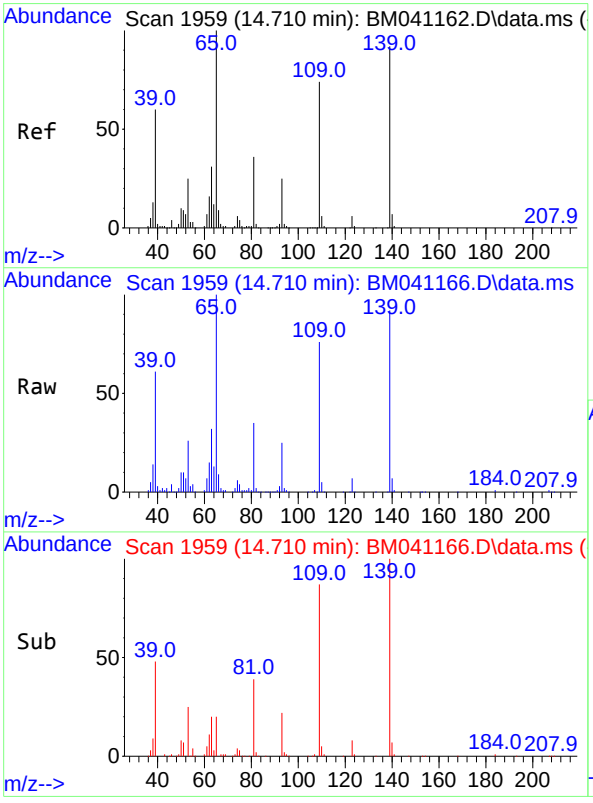
Ion	Ratio	Lower	Upper
168	100		
139	37.4	29.8	44.6
169	13.1	10.5	15.7



Instrument :
BNA_M
ClientSampleId :
ICVBM072823

Manual Integrations
APPROVED

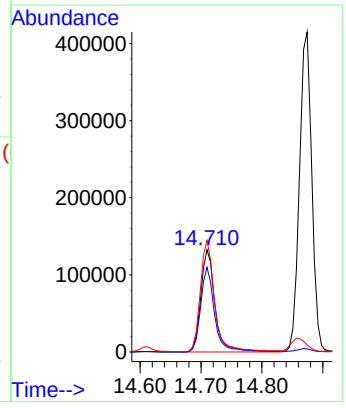
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

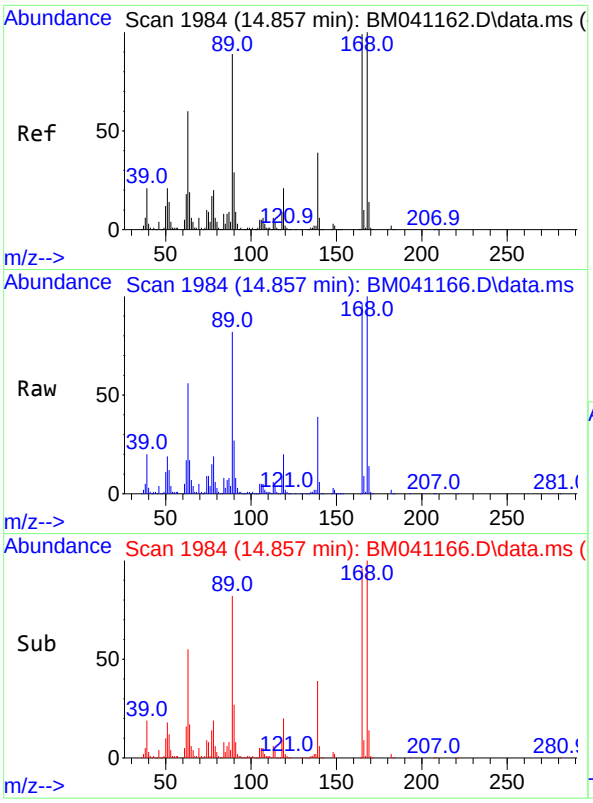


#56
4-Nitrophenol
Concen: 40.764 ng
RT: 14.710 min Scan# 1959
Delta R.T. -0.000 min
Lab File: BM041166.D
Acq: 28 Jul 2023 15:16

Tgt Ion:139 Resp: 215896

Ion	Ratio	Lower	Upper
139	100		
109	82.8	61.2	101.2
65	109.2	89.5	129.5

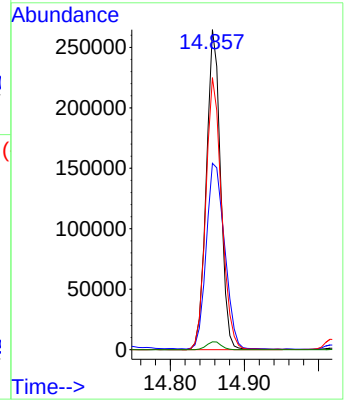




#57
2,4-Dinitrotoluene
Concen: 39.317 ng
RT: 14.857 min Scan# 1
Delta R.T. -0.000 min
Lab File: BM041166.D
Acq: 28 Jul 2023 15:16

Tgt Ion:165 Resp: 35216

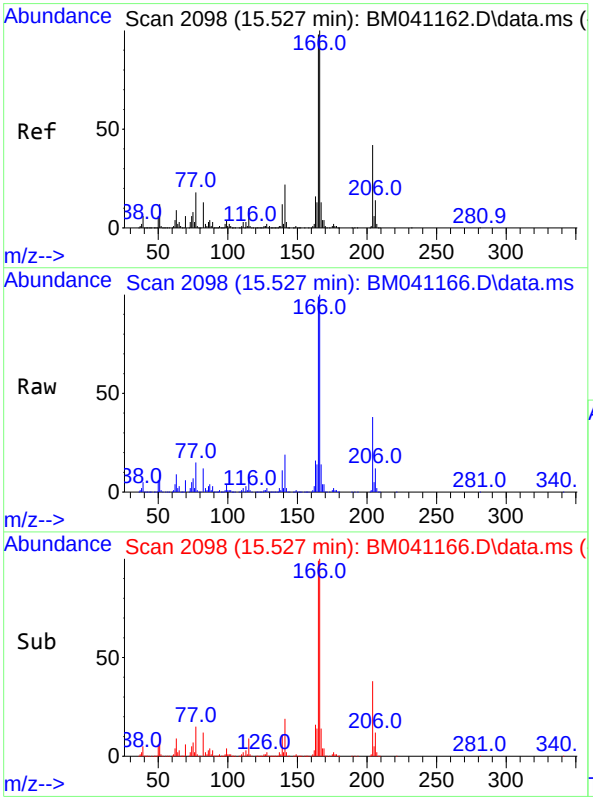
Ion	Ratio	Lower	Upper
165	100		
63	58.3	48.3	72.5
89	85.0	71.8	107.8
182	2.4	2.0	3.0



Instrument :
BNA_M
ClientSampleId :
ICVBM072823

Manual Integrations
APPROVED

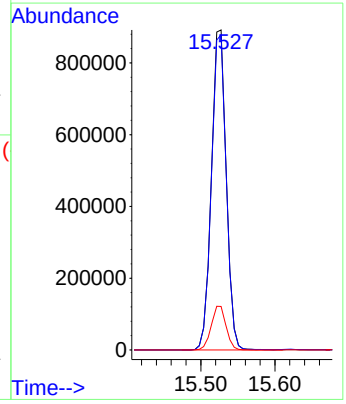
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

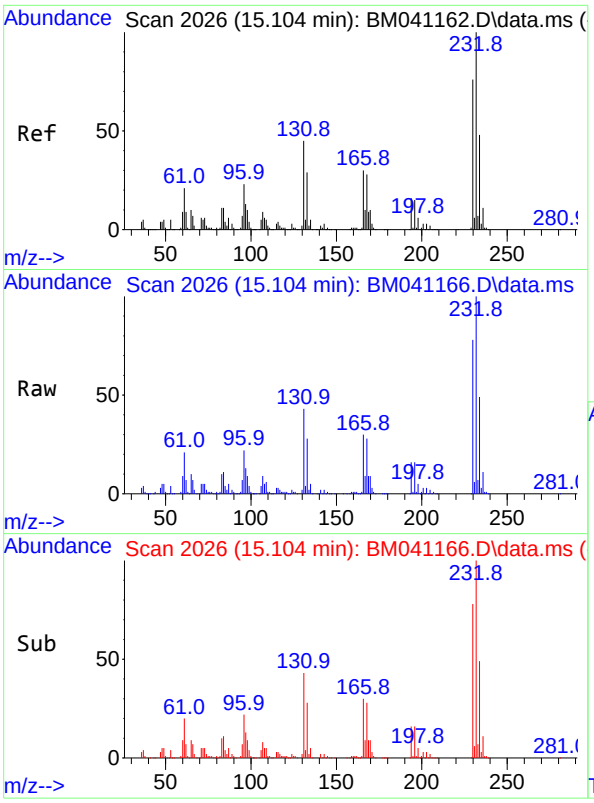


#58
Fluorene
Concen: 40.050 ng
RT: 15.527 min Scan# 2098
Delta R.T. 0.000 min
Lab File: BM041166.D
Acq: 28 Jul 2023 15:16

Tgt Ion:166 Resp: 1237107

Ion	Ratio	Lower	Upper
166	100		
165	98.5	78.2	117.4
167	13.6	10.6	16.0

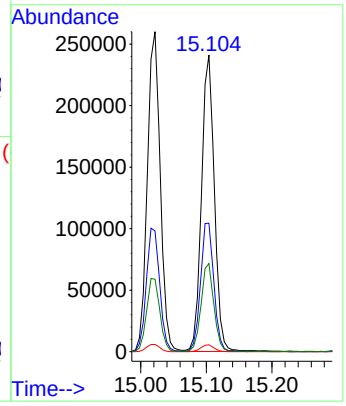




#59
2,3,4,6-Tetrachlorophenol
Concen: 41.478 ng
RT: 15.104 min Scan# 2(
Delta R.T. -0.000 min
Lab File: BM041166.D
Acq: 28 Jul 2023 15:16

Tgt Ion:232 Resp: 32988

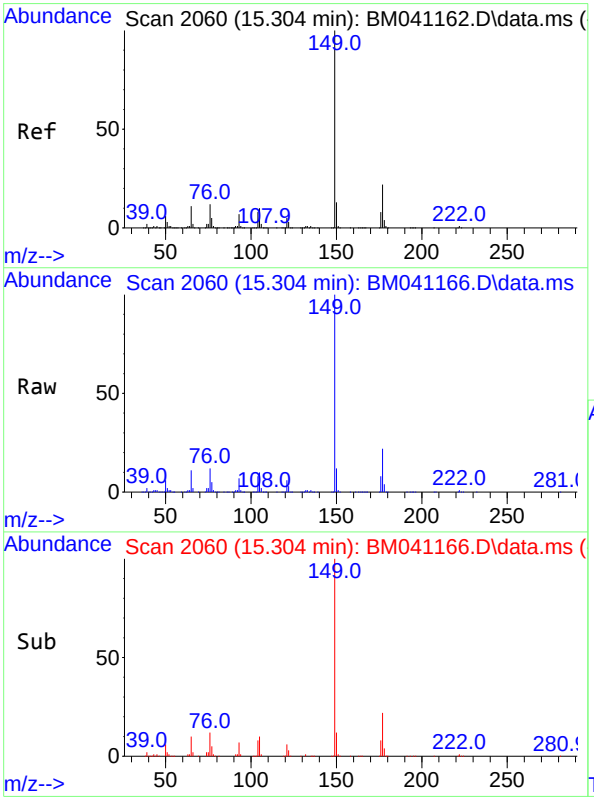
Ion	Ratio	Lower	Upper
232	100		
131	44.6	36.9	55.3
130	2.4	2.0	3.0
166	29.6	24.2	36.2



Instrument :
BNA_M
ClientSampleId :
ICVBM072823

Manual Integrations
APPROVED

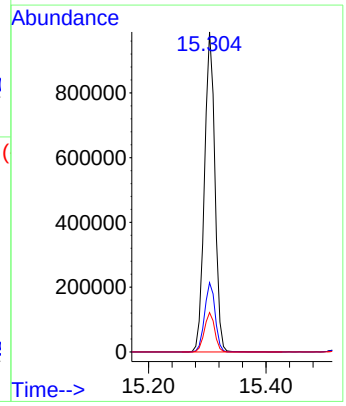
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

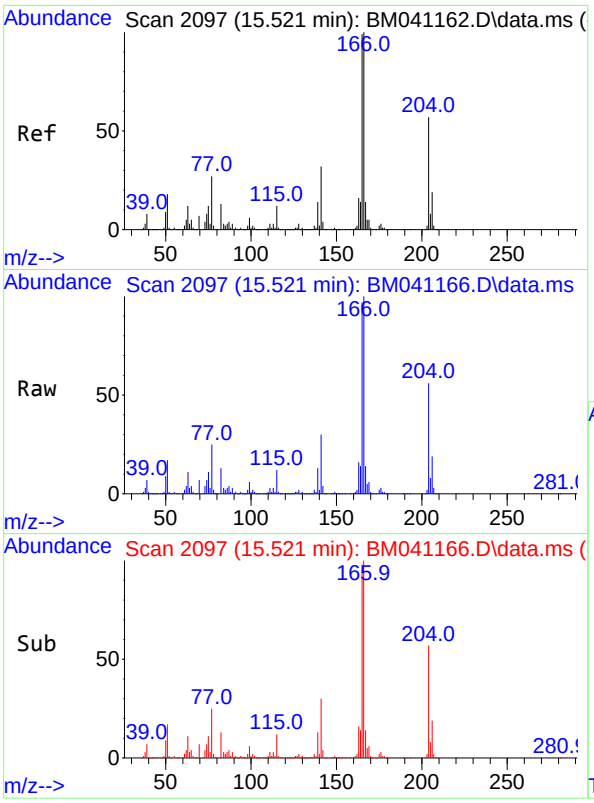


#60
Diethylphthalate
Concen: 41.032 ng
RT: 15.304 min Scan# 2060
Delta R.T. 0.000 min
Lab File: BM041166.D
Acq: 28 Jul 2023 15:16

Tgt Ion:149 Resp: 1216997

Ion	Ratio	Lower	Upper
149	100		
177	21.6	17.5	26.3
150	12.3	10.1	15.1





#61
4-Chlorophenyl-phenylether
Concen: 41.150 ng
RT: 15.521 min Scan# 2
Delta R.T. 0.000 min
Lab File: BM041166.D
Acq: 28 Jul 2023 15:16

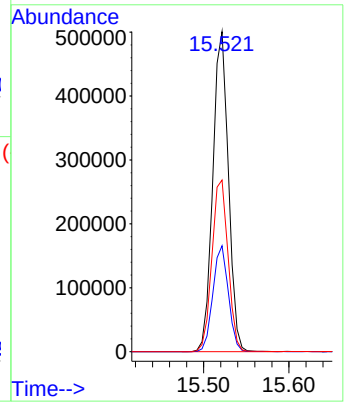
Instrument :
BNA_M
ClientSampleId :
ICVBM072823

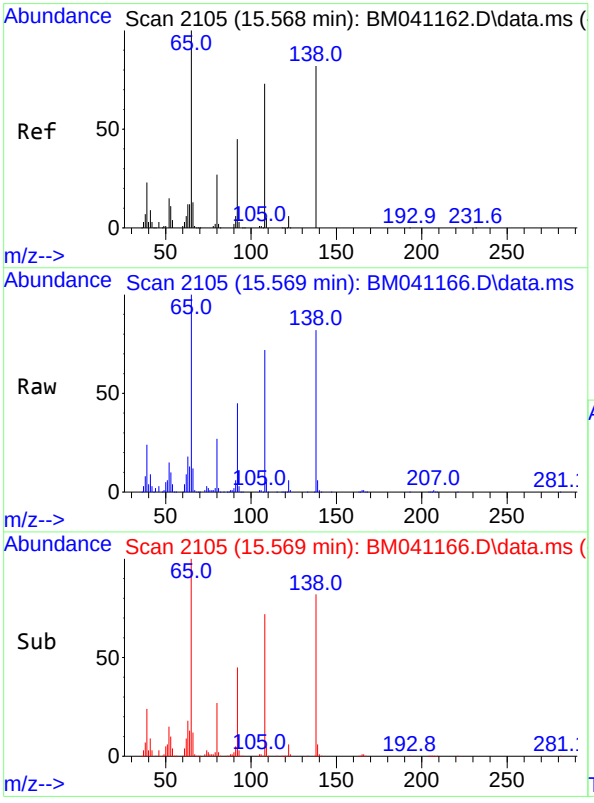
Tgt Ion:204 Resp: 63694

Ion	Ratio	Lower	Upper
204	100		
206	33.1	26.5	39.7
141	53.7	44.8	67.2

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

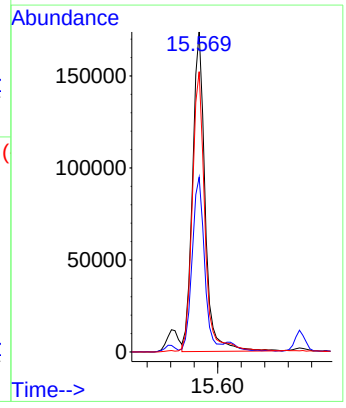


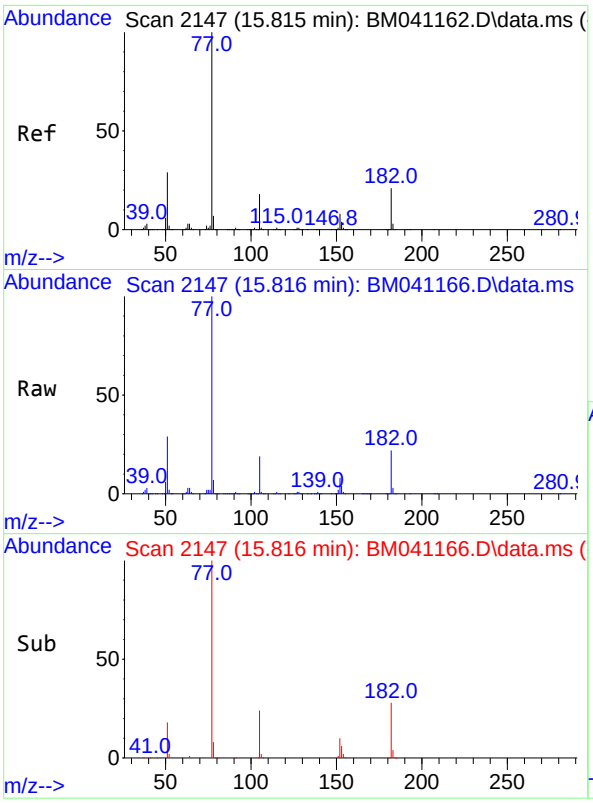


#62
4-Nitroaniline
Concen: 38.766 ng
RT: 15.569 min Scan# 2105
Delta R.T. 0.001 min
Lab File: BM041166.D
Acq: 28 Jul 2023 15:16

Tgt Ion:138 Resp: 256830

Ion	Ratio	Lower	Upper
138	100		
92	54.6	35.1	75.1
108	87.6	67.8	107.8

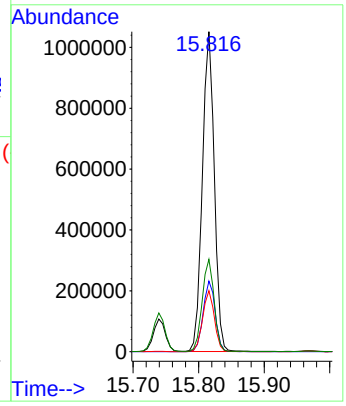




#63
Azobenzene
Concen: 40.975 ng
RT: 15.816 min Scan# 21
Delta R.T. 0.001 min
Lab File: BM041166.D
Acq: 28 Jul 2023 15:16

Tgt Ion: 77 Resp: 133124

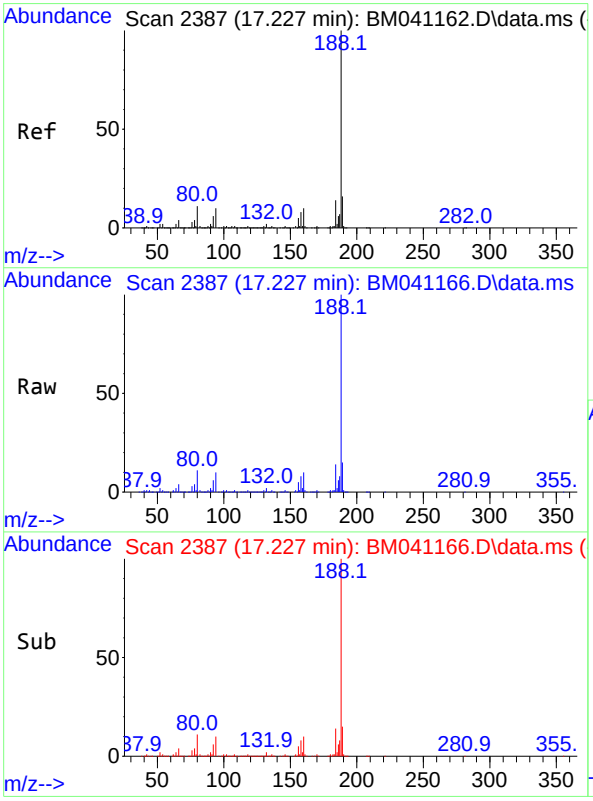
Ion	Ratio	Lower	Upper
77	100		
182	22.0	1.3	41.3
105	19.0	0.0	38.5
51	28.8	9.1	49.1



Instrument :
BNA_M
ClientSampleId :
ICVBM072823

Manual Integrations APPROVED

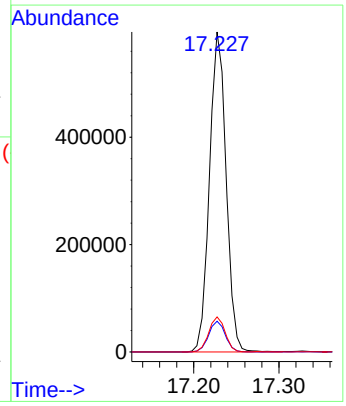
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

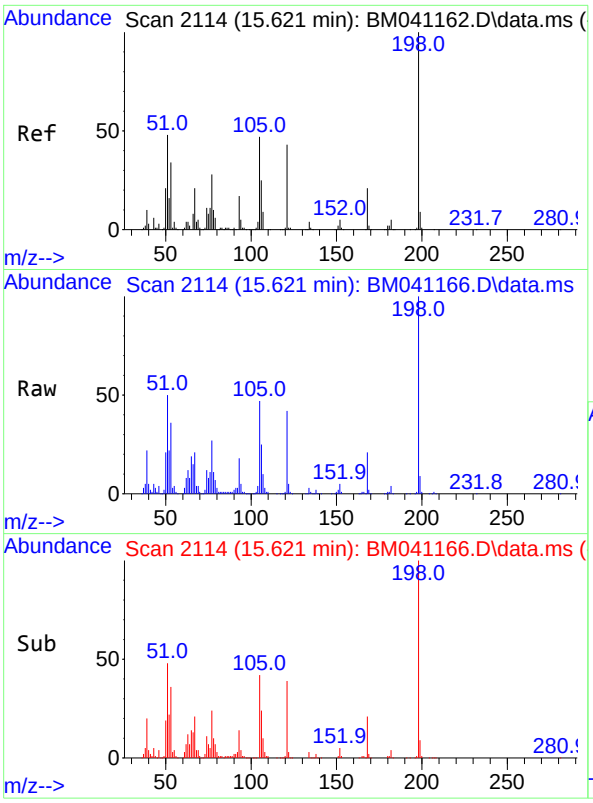


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.227 min Scan# 2387
Delta R.T. 0.000 min
Lab File: BM041166.D
Acq: 28 Jul 2023 15:16

Tgt Ion:188 Resp: 810093

Ion	Ratio	Lower	Upper
188	100		
94	9.6	8.2	12.2
80	10.9	8.6	13.0

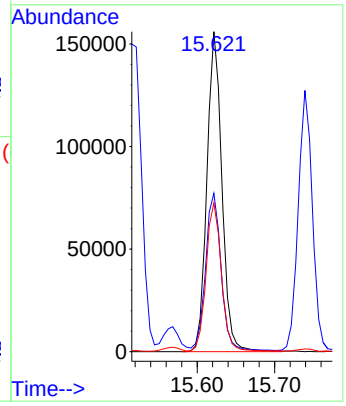




#65
4,6-Dinitro-2-methylphenol
Concen: 42.716 ng
RT: 15.621 min Scan# 2
Delta R.T. 0.000 min
Lab File: BM041166.D
Acq: 28 Jul 2023 15:16

Tgt Ion:198 Resp: 20963

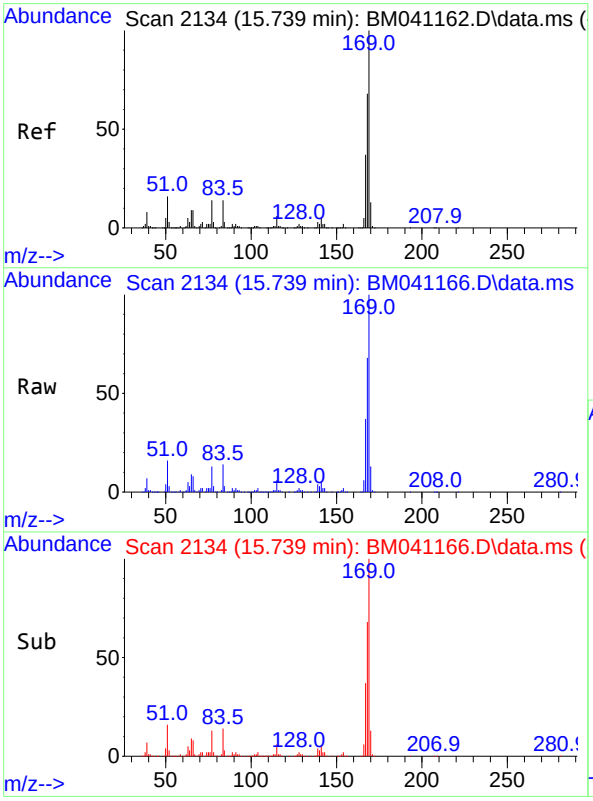
Ion	Ratio	Lower	Upper
198	100		
51	49.5	31.7	71.7
105	46.5	27.8	67.8



Instrument :
BNA_M
ClientSampleId :
ICVBM072823

Manual Integrations
APPROVED

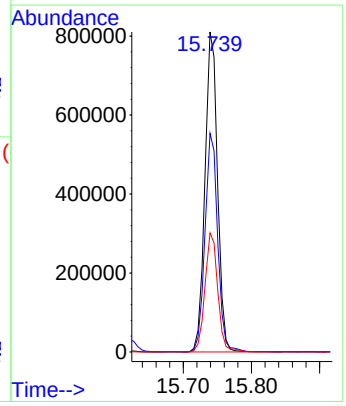
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

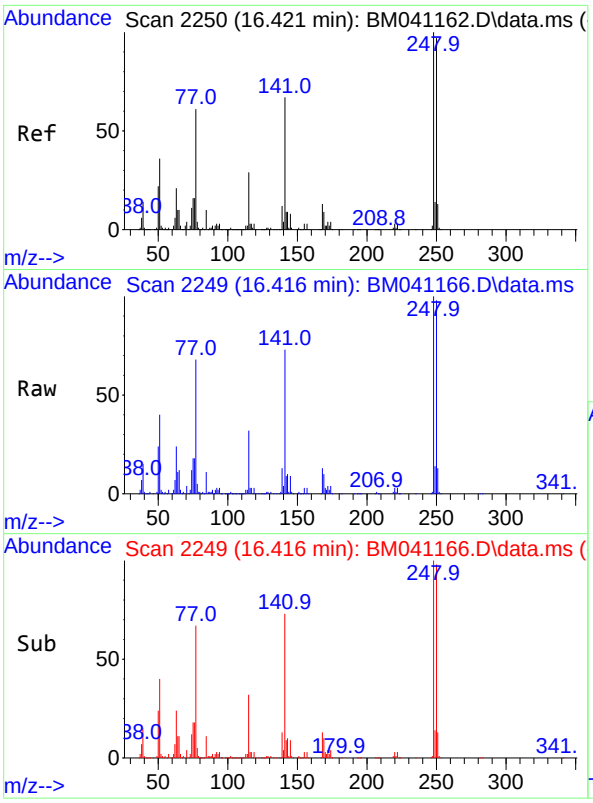


#66
n-Nitrosodiphenylamine
Concen: 41.267 ng
RT: 15.739 min Scan# 2134
Delta R.T. 0.000 min
Lab File: BM041166.D
Acq: 28 Jul 2023 15:16

Tgt Ion:169 Resp: 1039708

Ion	Ratio	Lower	Upper
169	100		
168	68.3	54.6	81.8
167	37.2	29.9	44.9

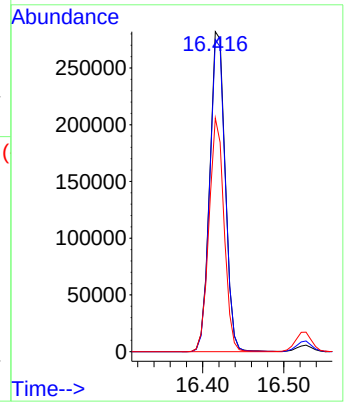




#67
4-Bromophenyl-phenylether
Concen: 41.862 ng
RT: 16.416 min Scan# 2
Delta R.T. -0.006 min
Lab File: BM041166.D
Acq: 28 Jul 2023 15:16

Tgt Ion:248 Resp: 37181

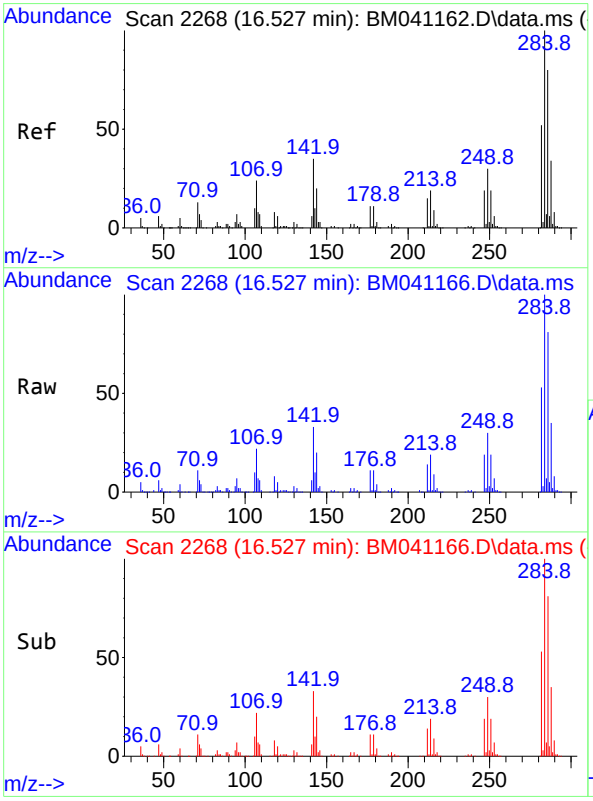
Ion	Ratio	Lower	Upper
248	100		
250	97.5	78.0	117.0
141	73.0	53.8	80.8



Instrument :
BNA_M
ClientSampleId :
ICVBM072823

Manual Integrations
APPROVED

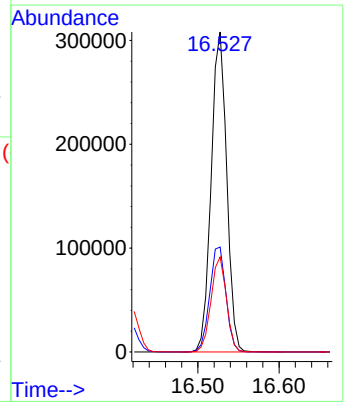
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

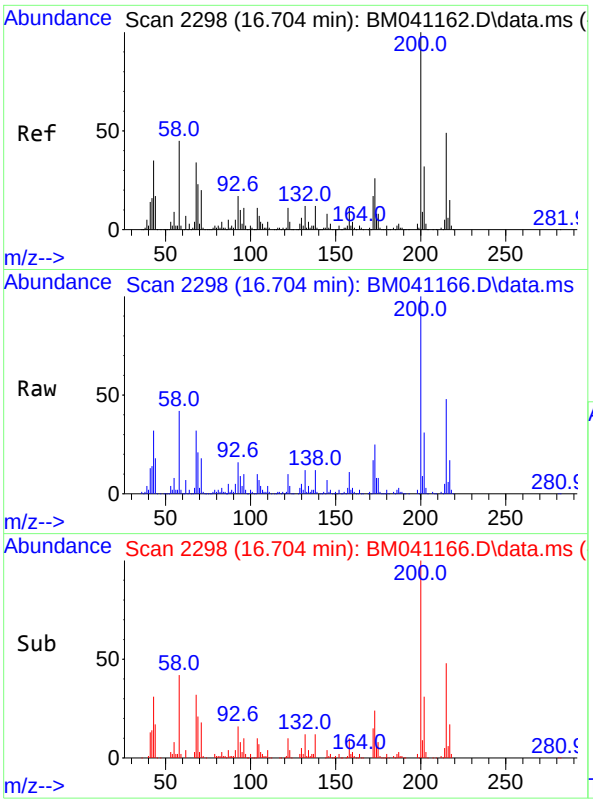


#68
Hexachlorobenzene
Concen: 41.312 ng
RT: 16.527 min Scan# 2268
Delta R.T. 0.000 min
Lab File: BM041166.D
Acq: 28 Jul 2023 15:16

Tgt Ion:284 Resp: 408021

Ion	Ratio	Lower	Upper
284	100		
142	32.8	28.0	42.0
249	29.7	23.7	35.5

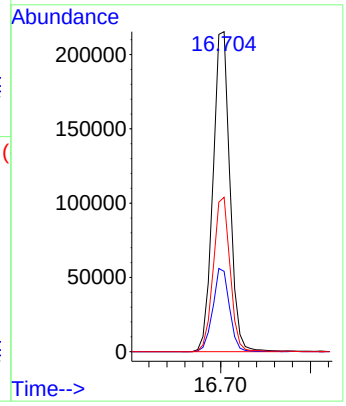




#69
Atrazine
Concen: 42.592 ng
RT: 16.704 min Scan# 2
Delta R.T. 0.000 min
Lab File: BM041166.D
Acq: 28 Jul 2023 15:16

Tgt Ion:200 Resp: 28180

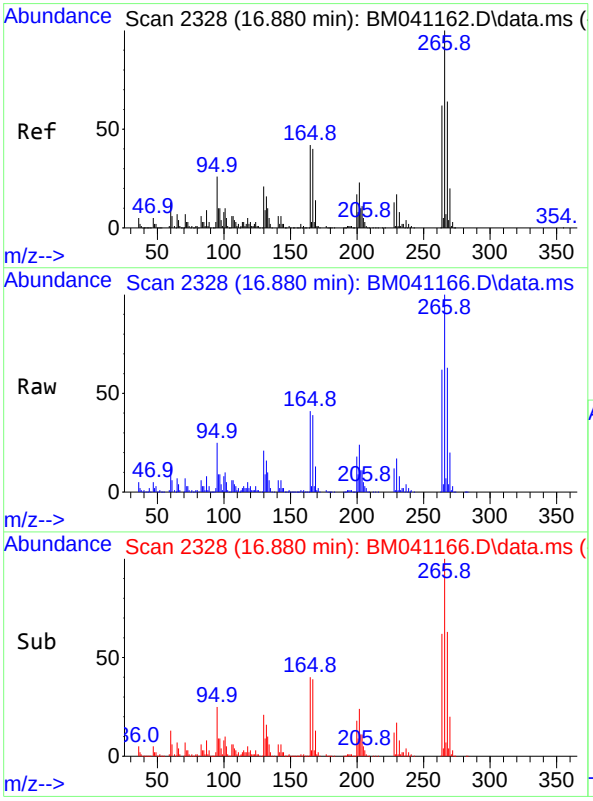
Ion	Ratio	Lower	Upper
200	100		
173	25.1	5.6	45.6
215	48.2	28.5	68.5



Instrument :
BNA_M
ClientSampleId :
ICVBM072823

Manual Integrations
APPROVED

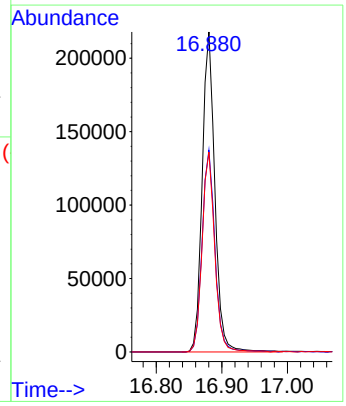
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

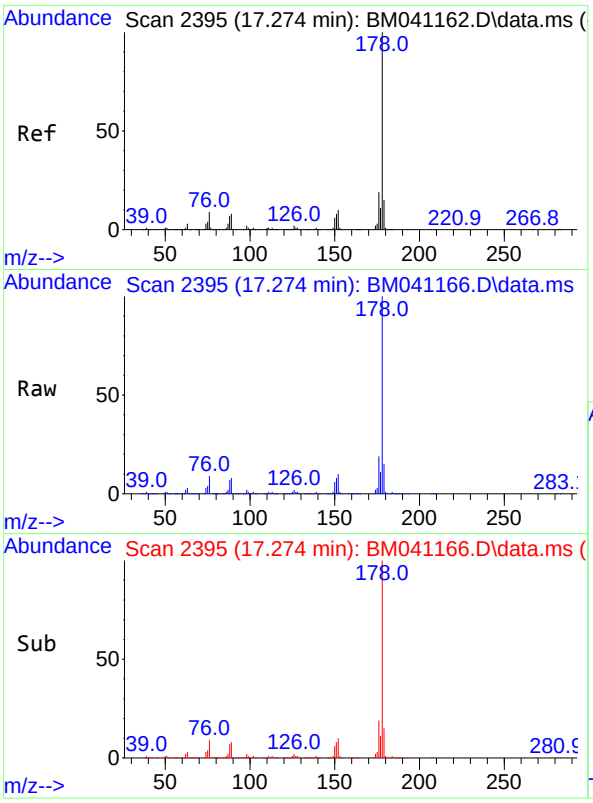


#70
Pentachlorophenol
Concen: 42.807 ng
RT: 16.880 min Scan# 2328
Delta R.T. 0.000 min
Lab File: BM041166.D
Acq: 28 Jul 2023 15:16

Tgt Ion:266 Resp: 292755

Ion	Ratio	Lower	Upper
266	100		
268	63.1	51.0	76.6
264	62.4	49.4	74.2

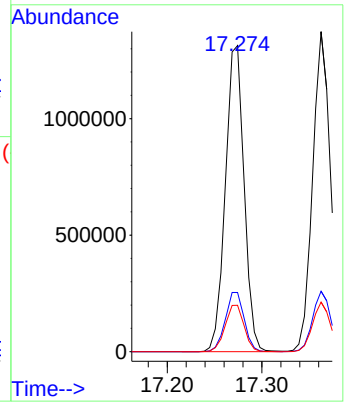




#71
Phenanthrene
Concen: 40.180 ng
RT: 17.274 min Scan# 2
Delta R.T. 0.000 min
Lab File: BM041166.D
Acq: 28 Jul 2023 15:16

Tgt Ion:178 Resp: 180848

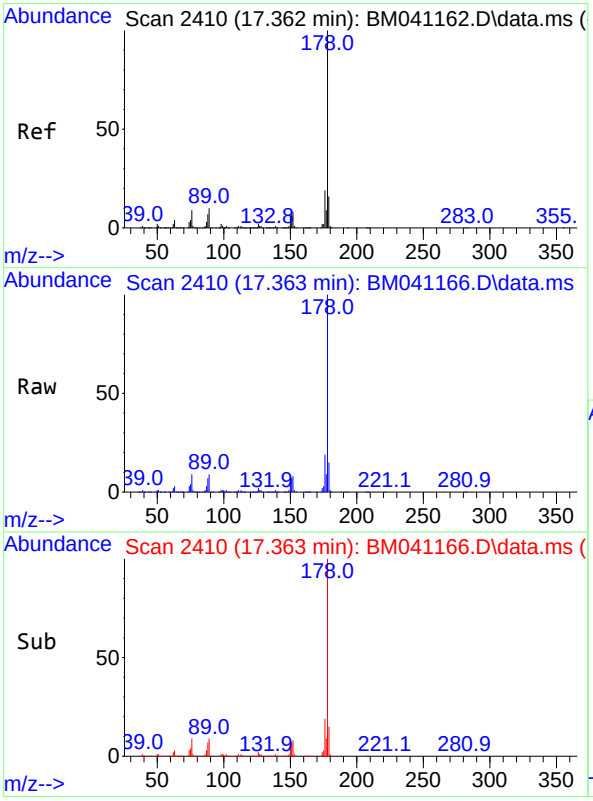
Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.6	23.4
179	15.1	12.1	18.1



Instrument :
BNA_M
ClientSampleId :
ICVBM072823

Manual Integrations
APPROVED

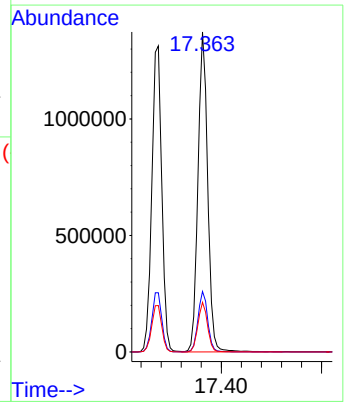
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

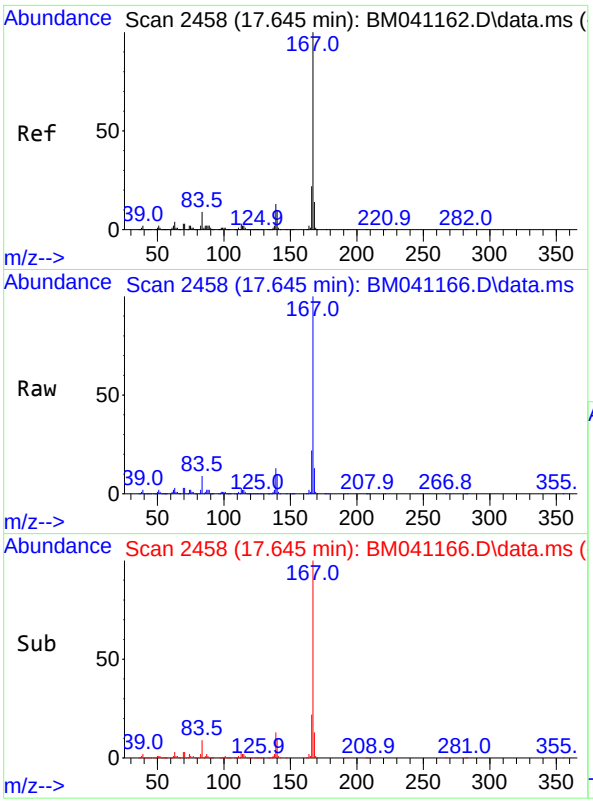


#72
Anthracene
Concen: 41.241 ng
RT: 17.363 min Scan# 2410
Delta R.T. 0.000 min
Lab File: BM041166.D
Acq: 28 Jul 2023 15:16

Tgt Ion:178 Resp: 1835860

Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.2	22.8
179	15.5	12.4	18.6

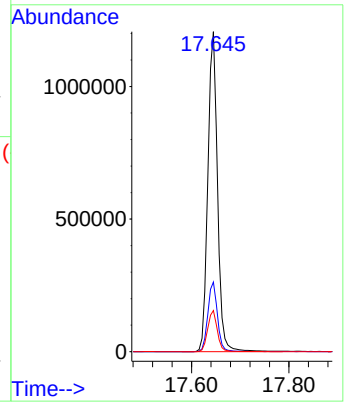




#73
Carbazole
Concen: 41.093 ng
RT: 17.645 min Scan# 24
Delta R.T. -0.000 min
Lab File: BM041166.D
Acq: 28 Jul 2023 15:16

Tgt Ion:167 Resp: 165564

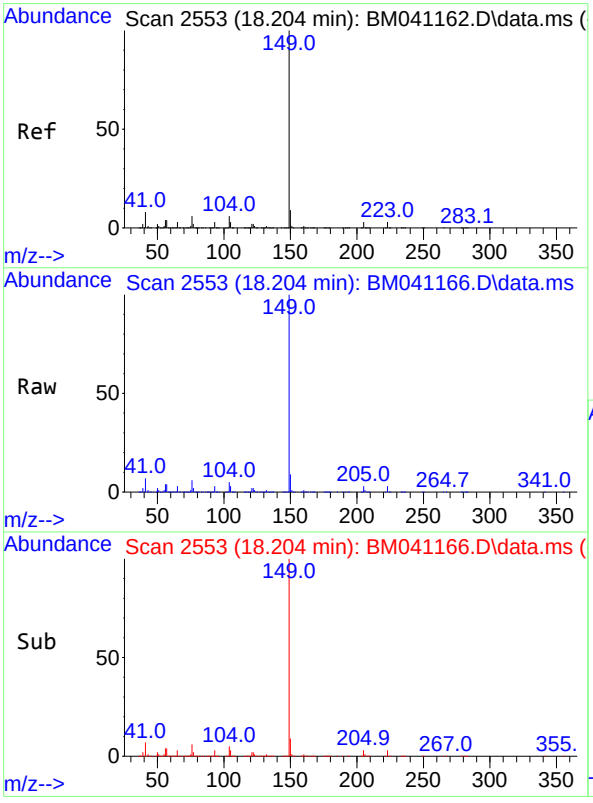
Ion	Ratio	Lower	Upper
167	100		
166	21.8	17.3	25.9
139	12.9	10.3	15.5



Instrument :
BNA_M
ClientSampleId :
ICVBM072823

Manual Integrations
APPROVED

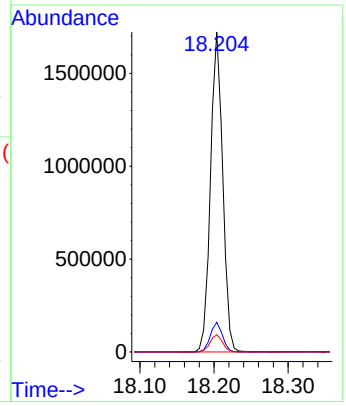
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

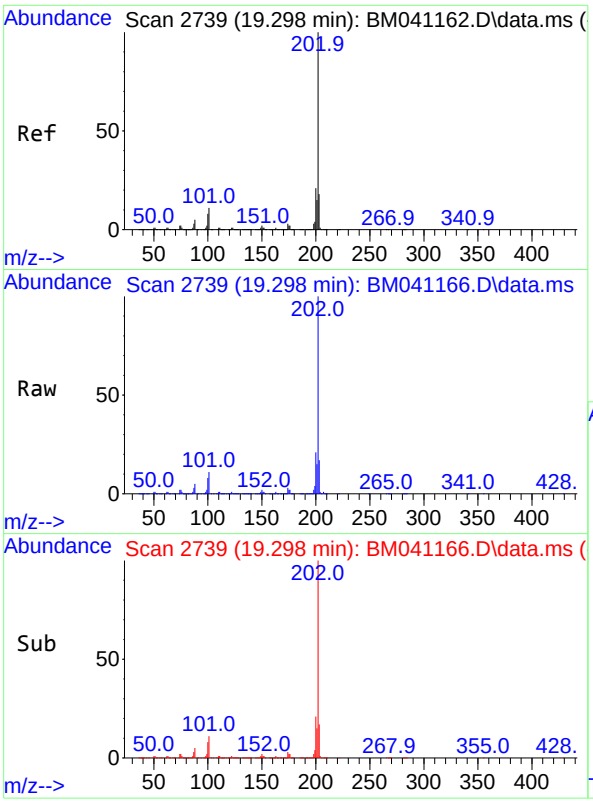


#74
Di-n-butylphthalate
Concen: 43.263 ng
RT: 18.204 min Scan# 2553
Delta R.T. 0.000 min
Lab File: BM041166.D
Acq: 28 Jul 2023 15:16

Tgt Ion:149 Resp: 1969689

Ion	Ratio	Lower	Upper
149	100		
150	9.3	7.3	10.9
104	5.4	4.5	6.7

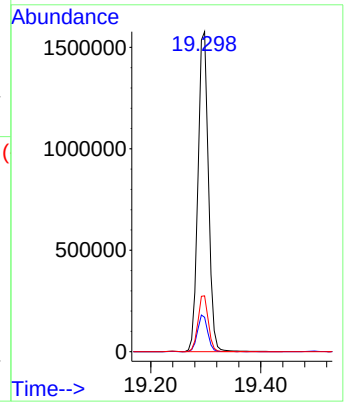




#75
Fluoranthene
Concen: 41.033 ng
RT: 19.298 min Scan# 2
Delta R.T. 0.000 min
Lab File: BM041166.D
Acq: 28 Jul 2023 15:16

Tgt Ion:202 Resp: 207492

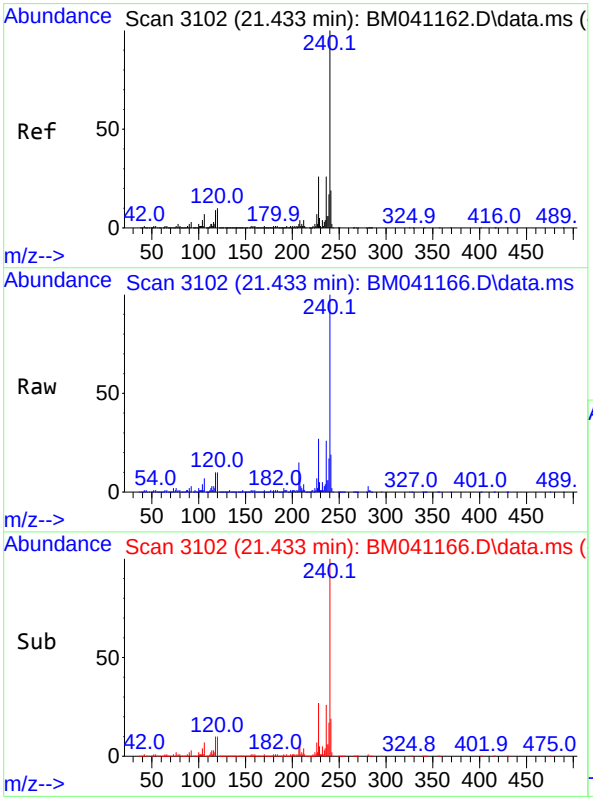
Ion	Ratio	Lower	Upper
202	100		
101	10.7	0.0	30.8
203	17.4	0.0	37.6



Instrument :
BNA_M
ClientSampleId :
ICVBM072823

Manual Integrations
APPROVED

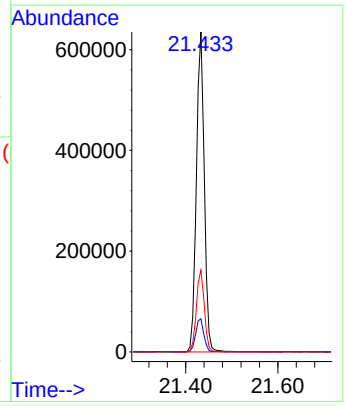
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

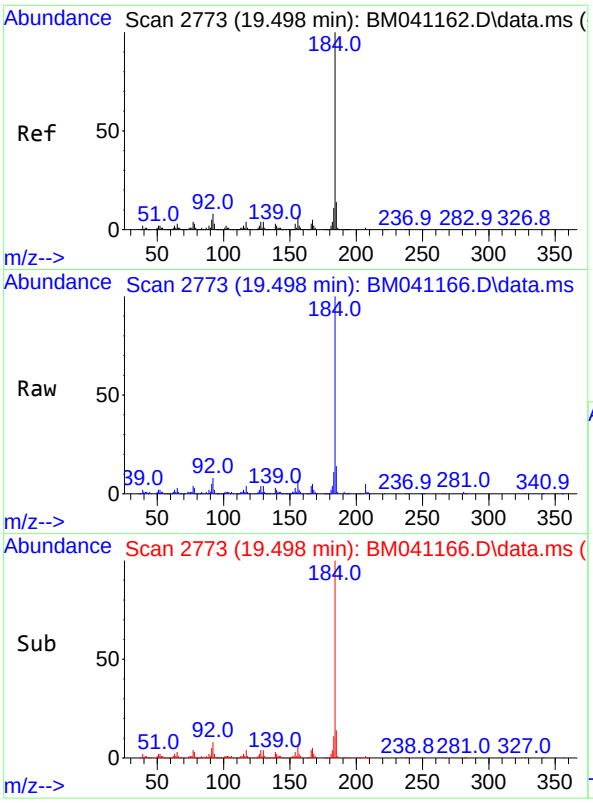


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.433 min Scan# 3102
Delta R.T. -0.000 min
Lab File: BM041166.D
Acq: 28 Jul 2023 15:16

Tgt Ion:240 Resp: 755647

Ion	Ratio	Lower	Upper
240	100		
120	10.3	8.3	12.5
236	25.5	20.6	30.8

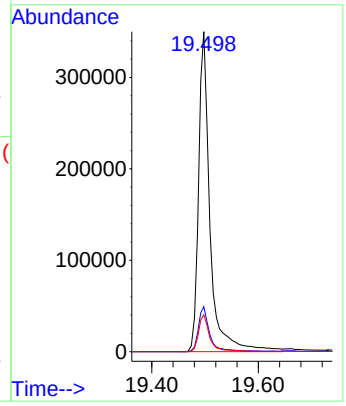




#77
Benzidine
Concen: 50.664 ng
RT: 19.498 min Scan# 2
Delta R.T. -0.000 min
Lab File: BM041166.D
Acq: 28 Jul 2023 15:16

Tgt Ion:184 Resp: 52181

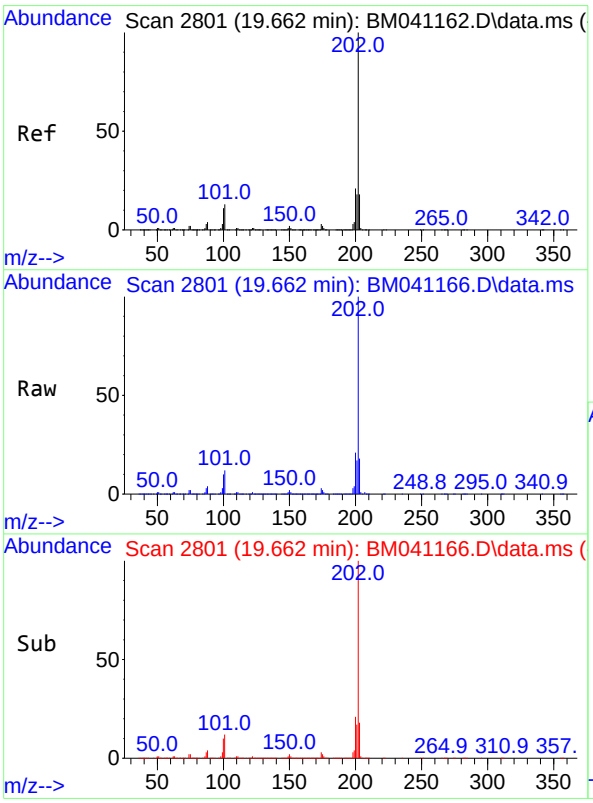
Ion	Ratio	Lower	Upper
184	100		
185	14.0	11.4	17.0
183	11.5	9.2	13.8



Instrument :
BNA_M
ClientSampleId :
ICVBM072823

Manual Integrations
APPROVED

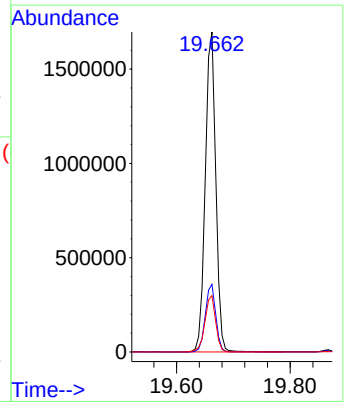
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

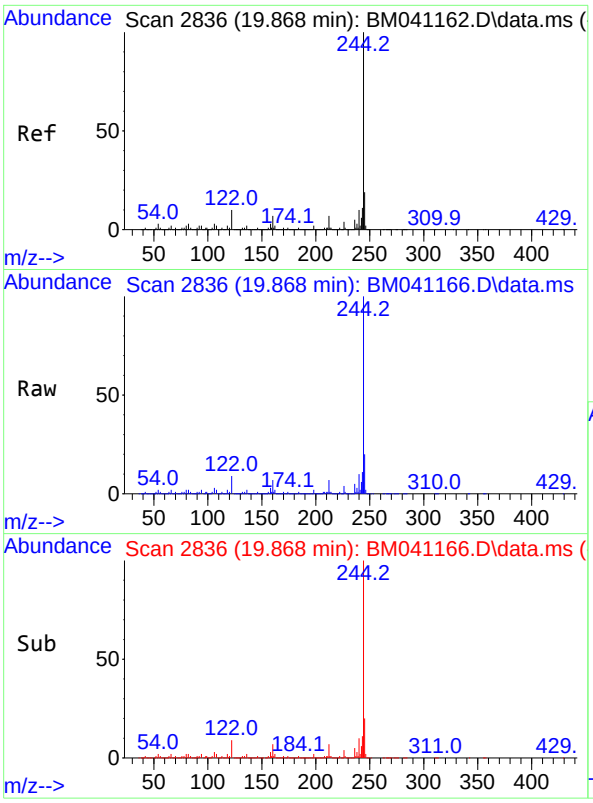


#78
Pyrene
Concen: 41.205 ng
RT: 19.662 min Scan# 2801
Delta R.T. 0.000 min
Lab File: BM041166.D
Acq: 28 Jul 2023 15:16

Tgt Ion:202 Resp: 2177419

Ion	Ratio	Lower	Upper
202	100		
200	21.1	16.9	25.3
203	17.6	14.1	21.1

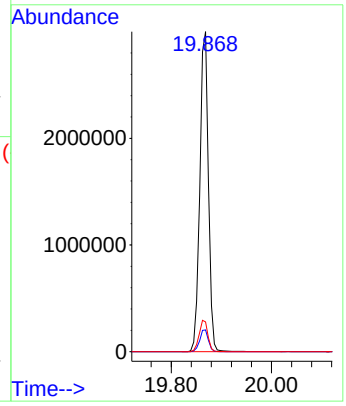




#79
Terphenyl-d14
Concen: 84.577 ng
RT: 19.868 min Scan# 2
Delta R.T. 0.000 min
Lab File: BM041166.D
Acq: 28 Jul 2023 15:16

Tgt Ion:244 Resp: 353475

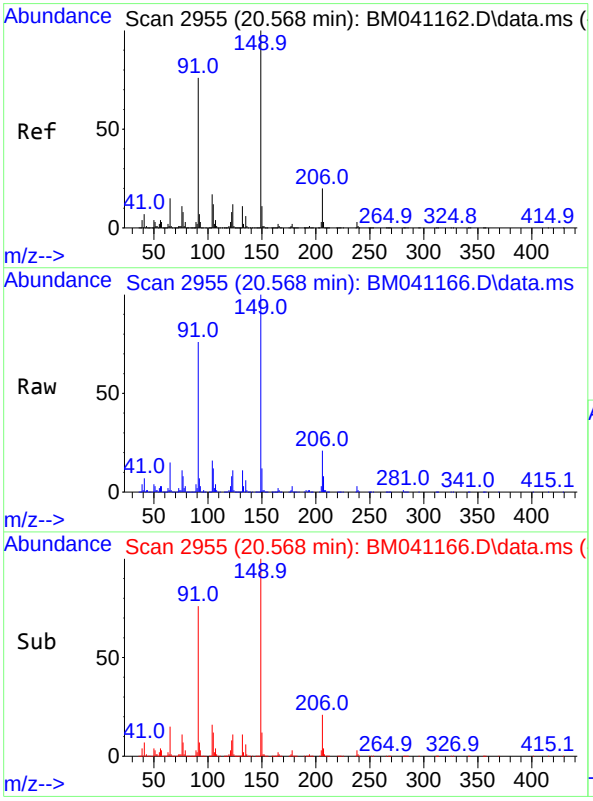
Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.4	8.2
122	9.3	7.8	11.6



Instrument :
BNA_M
ClientSampleId :
ICVBM072823

Manual Integrations
APPROVED

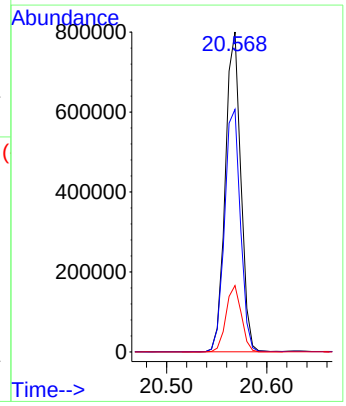
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

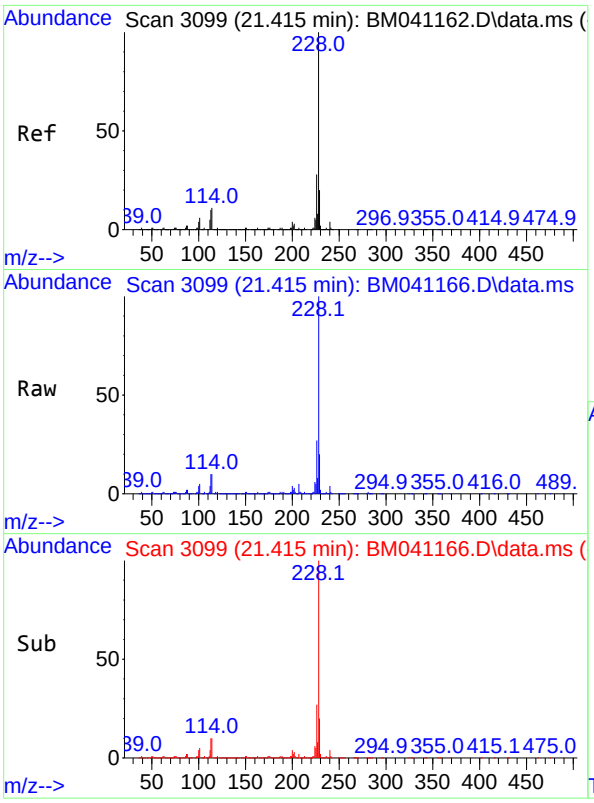


#80
Butylbenzylphthalate
Concen: 44.286 ng
RT: 20.568 min Scan# 2955
Delta R.T. 0.000 min
Lab File: BM041166.D
Acq: 28 Jul 2023 15:16

Tgt Ion:149 Resp: 854614

Ion	Ratio	Lower	Upper
149	100		
91	75.8	60.8	91.2
206	20.7	16.4	24.6

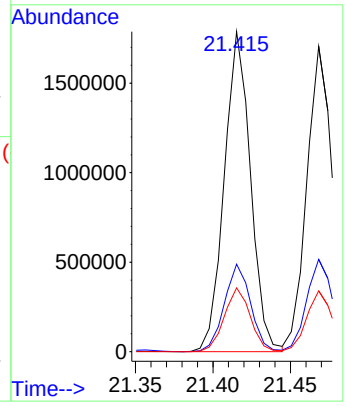




#81
Benzo(a)anthracene
Concen: 41.039 ng
RT: 21.415 min Scan# 3
Delta R.T. 0.000 min
Lab File: BM041166.D
Acq: 28 Jul 2023 15:16

Tgt Ion:228 Resp: 210231

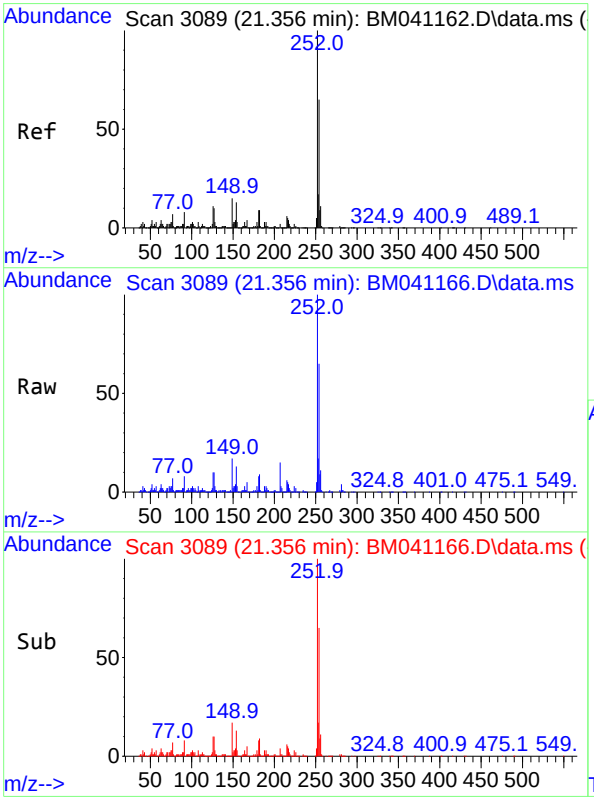
Ion	Ratio	Lower	Upper
228	100		
226	27.4	22.4	33.6
229	20.0	15.8	23.8



Instrument :
BNA_M
ClientSampleId :
ICVBM072823

Manual Integrations
APPROVED

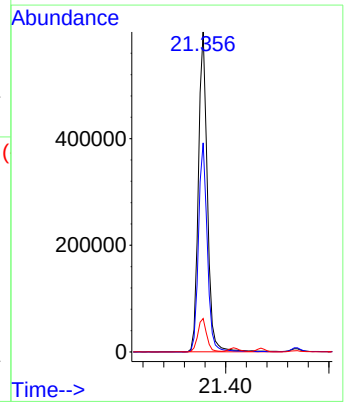
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

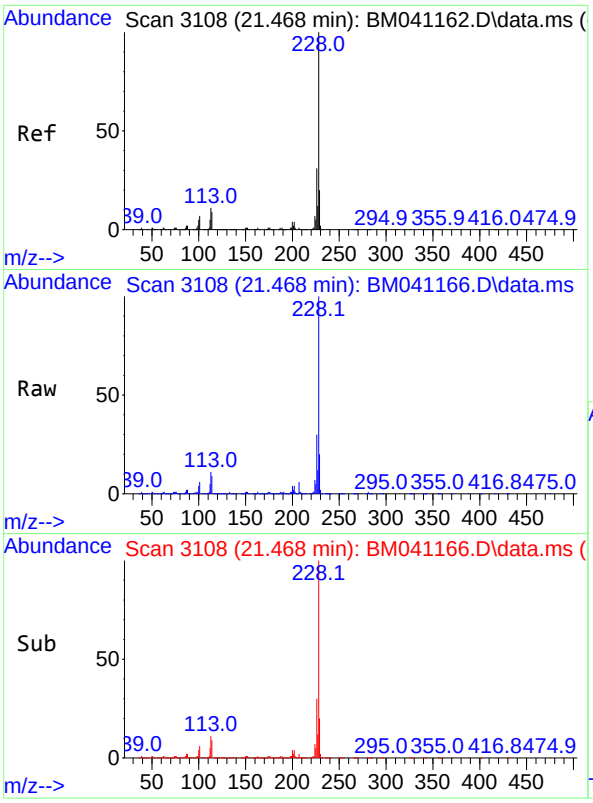


#82
3,3'-Dichlorobenzidine
Concen: 43.047 ng
RT: 21.356 min Scan# 3089
Delta R.T. 0.000 min
Lab File: BM041166.D
Acq: 28 Jul 2023 15:16

Tgt Ion:252 Resp: 719571

Ion	Ratio	Lower	Upper
252	100		
254	65.4	51.8	77.6
126	10.4	8.6	13.0

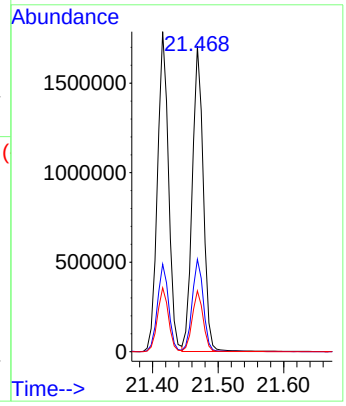




#83
Chrysene
Concen: 40.144 ng
RT: 21.468 min Scan# 3
Delta R.T. 0.000 min
Lab File: BM041166.D
Acq: 28 Jul 2023 15:16

Tgt Ion:228 Resp: 198909

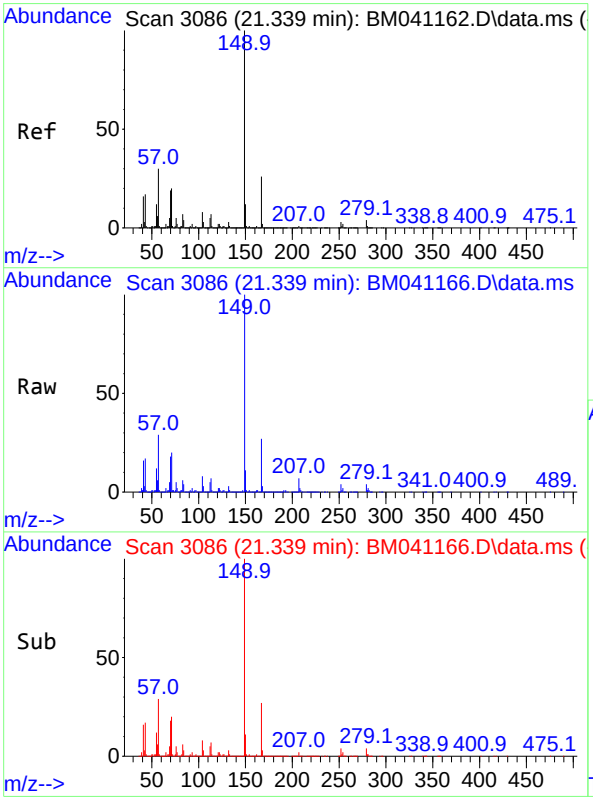
Ion	Ratio	Lower	Upper
228	100		
226	30.2	24.5	36.7
229	19.9	15.8	23.8



Instrument :
BNA_M
ClientSampleId :
ICVBM072823

Manual Integrations
APPROVED

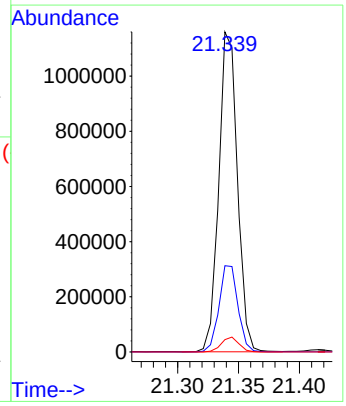
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

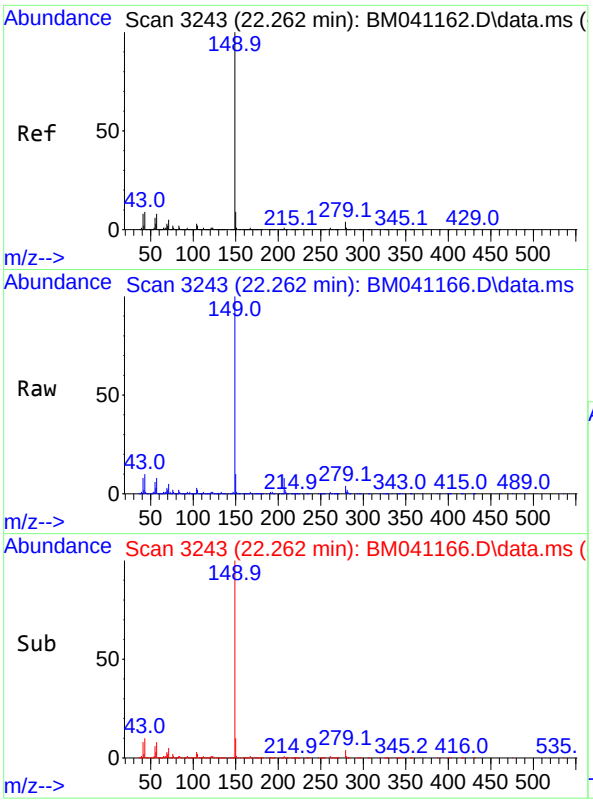


#84
Bis(2-ethylhexyl)phthalate
Concen: 40.723 ng
RT: 21.339 min Scan# 3086
Delta R.T. -0.000 min
Lab File: BM041166.D
Acq: 28 Jul 2023 15:16

Tgt Ion:149 Resp: 1235539

Ion	Ratio	Lower	Upper
149	100		
167	27.0	21.0	31.6
279	3.9	3.1	4.7

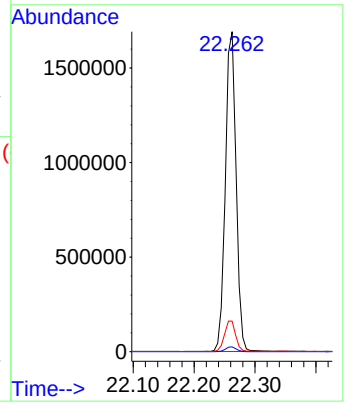




#85
Di-n-octyl phthalate
Concen: 42.367 ng
RT: 22.262 min Scan# 3
Delta R.T. 0.000 min
Lab File: BM041166.D
Acq: 28 Jul 2023 15:16

Tgt Ion:149 Resp: 206627

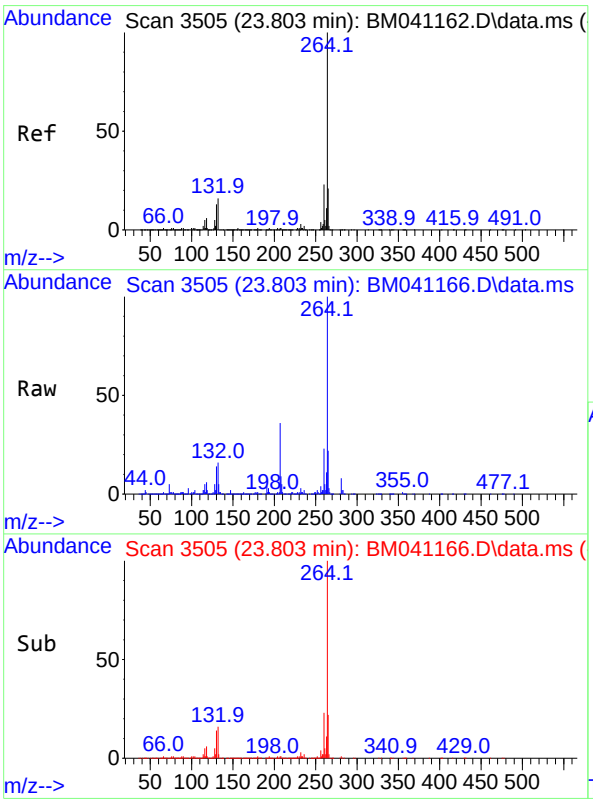
Ion	Ratio	Lower	Upper
149	100		
167	1.5	1.2	1.8
43	10.1	8.3	12.5



Instrument :
BNA_M
ClientSampleId :
ICVBM072823

Manual Integrations
APPROVED

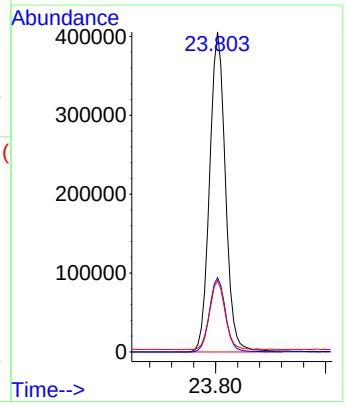
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

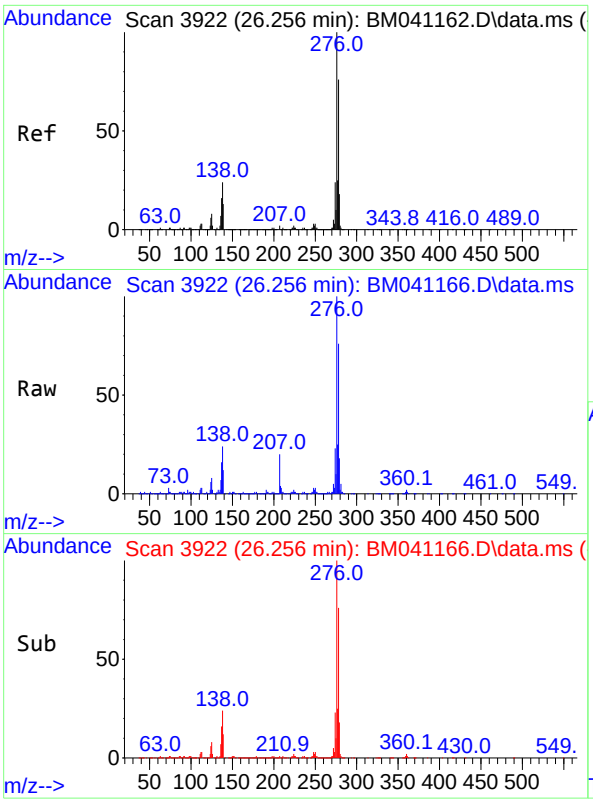


#86
Perylene-d12
Concen: 20.000 ng
RT: 23.803 min Scan# 3505
Delta R.T. 0.000 min
Lab File: BM041166.D
Acq: 28 Jul 2023 15:16

Tgt Ion:264 Resp: 812070

Ion	Ratio	Lower	Upper
264	100		
260	23.2	18.5	27.7
265	22.3	17.4	26.0

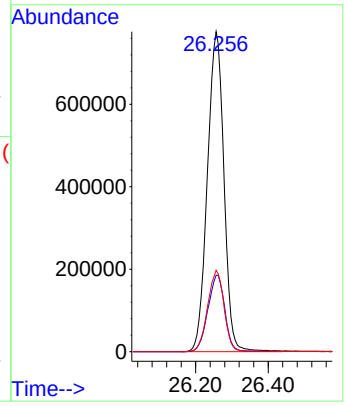




#87
Indeno(1,2,3-cd)pyrene
Concen: 41.209 ng
RT: 26.256 min Scan# 3
Delta R.T. 0.000 min
Lab File: BM041166.D
Acq: 28 Jul 2023 15:16

Tgt Ion:276 Resp: 246033

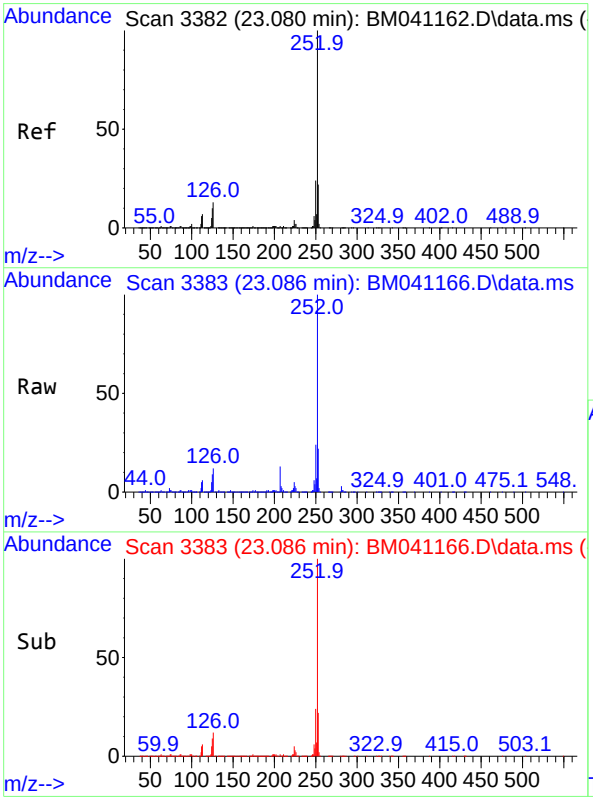
Ion	Ratio	Lower	Upper
276	100		
138	24.3	20.0	30.0
277	25.2	20.1	30.1



Instrument :
BNA_M
ClientSampleId :
ICVBM072823

Manual Integrations
APPROVED

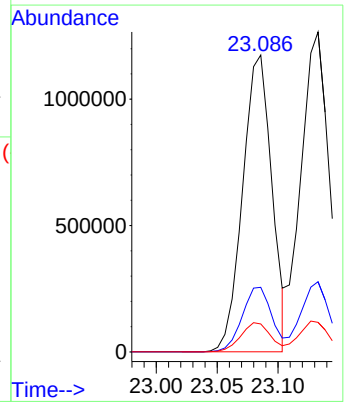
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

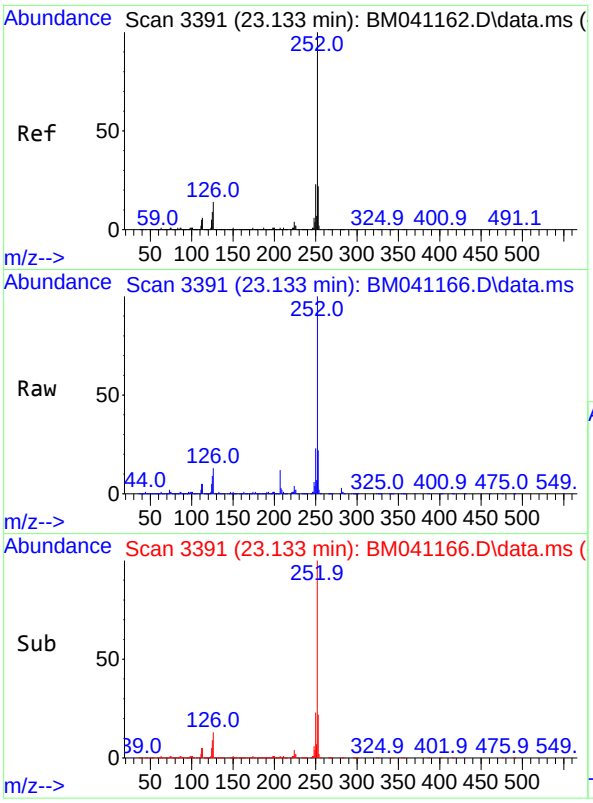


#88
Benzo(b)fluoranthene
Concen: 40.613 ng
RT: 23.086 min Scan# 3383
Delta R.T. 0.006 min
Lab File: BM041166.D
Acq: 28 Jul 2023 15:16

Tgt Ion:252 Resp: 1959228

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.7	26.5
125	9.5	8.2	12.4

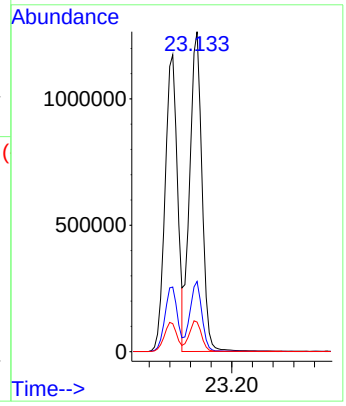




#89
Benzo(k)fluoranthene
Concen: 42.174 ng
RT: 23.133 min Scan# 3
Delta R.T. 0.000 min
Lab File: BM041166.D
Acq: 28 Jul 2023 15:16

Tgt Ion:252 Resp: 208117

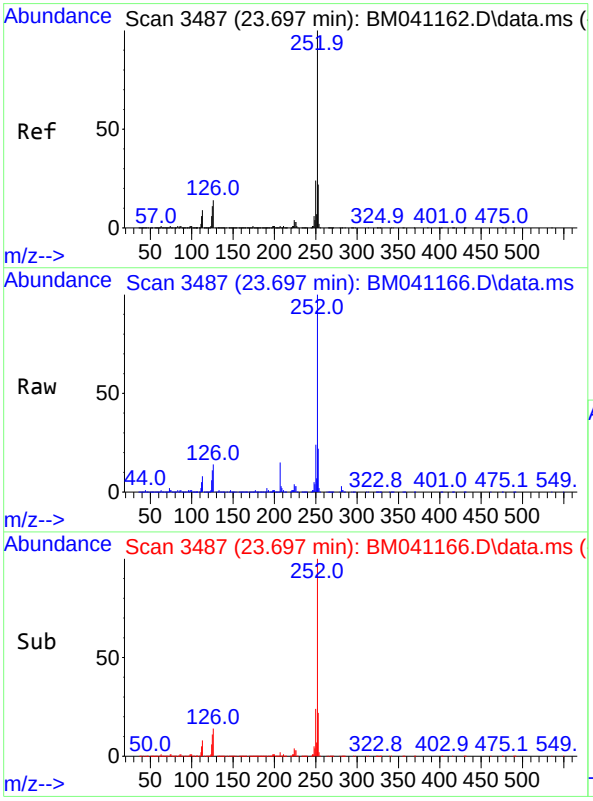
Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.4	26.0
125	9.2	7.6	11.4



Instrument :
BNA_M
ClientSampleId :
ICVBM072823

Manual Integrations
APPROVED

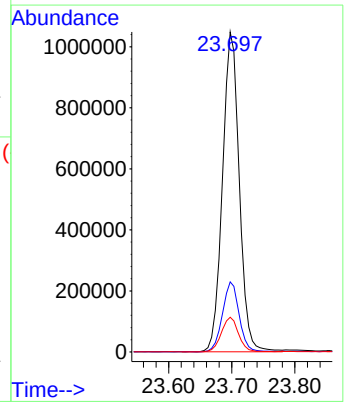
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

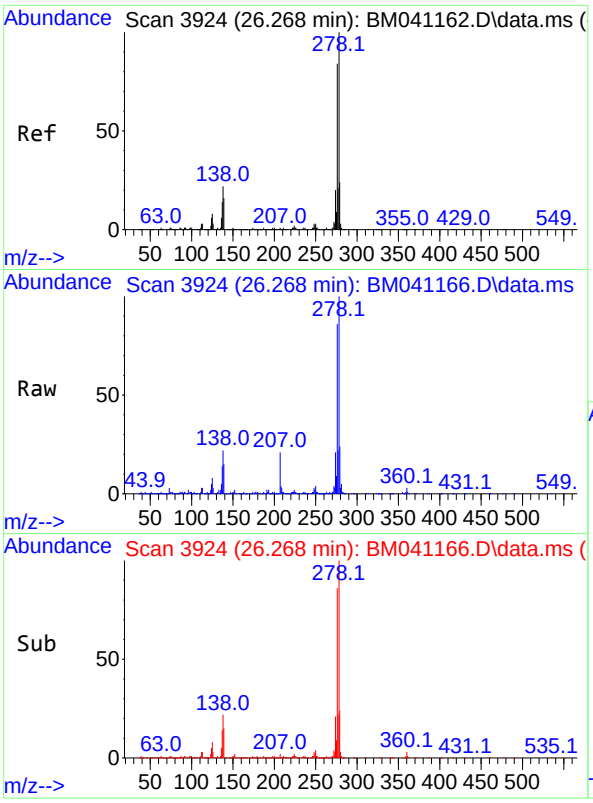


#90
Benzo(a)pyrene
Concen: 41.731 ng
RT: 23.697 min Scan# 3487
Delta R.T. 0.000 min
Lab File: BM041166.D
Acq: 28 Jul 2023 15:16

Tgt Ion:252 Resp: 1934392

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.3	25.9
125	10.8	9.0	13.4

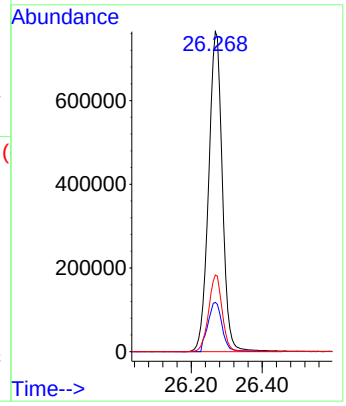




#91
Dibenzo(a,h)anthracene
Concen: 41.396 ng
RT: 26.268 min Scan# 3
Delta R.T. 0.000 min
Lab File: BM041166.D
Acq: 28 Jul 2023 15:16

Tgt Ion:278 Resp: 206147

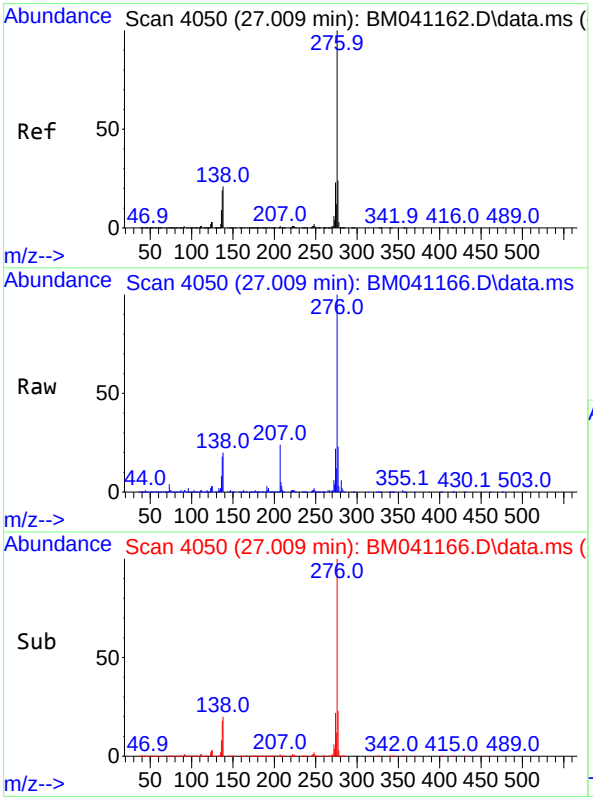
Ion	Ratio	Lower	Upper
278	100		
139	15.4	12.7	19.1
279	24.0	19.1	28.7



Instrument :
BNA_M
ClientSampleId :
ICVBM072823

Manual Integrations APPROVED

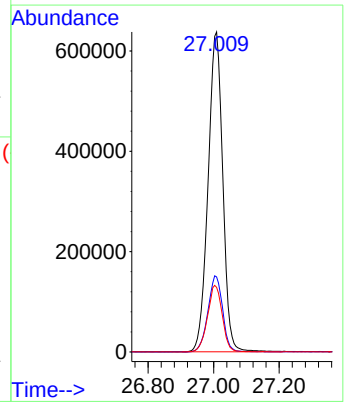
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023



#92
Benzo(g,h,i)perylene
Concen: 40.912 ng
RT: 27.009 min Scan# 4050
Delta R.T. 0.000 min
Lab File: BM041166.D
Acq: 28 Jul 2023 15:16

Tgt Ion:276 Resp: 1993532

Ion	Ratio	Lower	Upper
276	100		
277	23.4	19.1	28.7
138	20.2	17.1	25.7



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM072823\
Data File : BM041166.D
Acq On : 28 Jul 2023 15:16
Operator : MA/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
ICVBM072823

Quant Time: Jul 29 00:23:16 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Jul 29 00:19:24 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	106	0.00
2		1,4-Dioxane	0.572	0.562	1.7	104	0.00
3		Pyridine	1.505	1.528	-1.5	104	0.00
4		n-Nitrosodimethylamine	0.696	0.692	0.6	104	0.00
5	S	2-Fluorophenol	1.338	1.351	-1.0	105	0.00
6		Aniline	2.030	2.053	-1.1	106	0.00
7	S	Phenol-d6	1.735	1.750	-0.9	106	0.00
8		2-Chlorophenol	1.306	1.319	-1.0	107	0.00
9		Benzaldehyde	0.915	0.897	2.0	108	0.00
10	C	Phenol	1.675	1.682	-0.4	106	0.00
11		bis(2-Chloroethyl)ether	1.356	1.363	-0.5	106	0.00
12		1,3-Dichlorobenzene	1.422	1.428	-0.4	107	0.00
13	C	1,4-Dichlorobenzene	1.429	1.433	-0.3	107	0.00
14		1,2-Dichlorobenzene	1.370	1.371	-0.1	107	0.00
15		Benzyl Alcohol	1.095	1.136	-3.7	109	0.00
16		2,2'-oxybis(1-Chloropropane	1.807	1.790	0.9	105	0.00
17		2-Methylphenol	1.145	1.163	-1.6	106	0.00
18		Hexachloroethane	0.532	0.546	-2.6	106	0.00
19	P	n-Nitroso-di-n-propylamine	1.054	1.081	-2.6	106	0.00
20		3+4-Methylphenols	1.530	1.560	-2.0	106	0.00
21	I	Naphthalene-d8	1.000	1.000	0.0	106	0.00
22		Acetophenone	0.530	0.533	-0.6	105	0.00
23	S	Nitrobenzene-d5	0.430	0.442	-2.8	106	0.00
24		Nitrobenzene	0.435	0.445	-2.3	106	0.00
25		Isophorone	0.730	0.758	-3.8	107	0.00
26	C	2-Nitrophenol	0.170	0.184	-8.2	109	0.00
27		2,4-Dimethylphenol	0.299	0.310	-3.7	106	0.00
28		bis(2-Chloroethoxy)methane	0.457	0.464	-1.5	105	0.00
29	C	2,4-Dichlorophenol	0.302	0.317	-5.0	107	0.00
30		1,2,4-Trichlorobenzene	0.333	0.344	-3.3	109	0.00
31		Naphthalene	1.085	1.083	0.2	106	0.00
32		Benzoic acid	0.198	0.207	-4.5	107	0.00
33		4-Chloroaniline	0.434	0.450	-3.7	107	0.00
34	C	Hexachlorobutadiene	0.200	0.209	-4.5	108	0.00
35		Caprolactam	0.087	0.091	-4.6	109	0.00
36	C	4-Chloro-3-methylphenol	0.318	0.325	-2.2	106	0.00
37		2-Methylnaphthalene	0.732	0.743	-1.5	107	0.00
38		1-Methylnaphthalene	0.685	0.689	-0.6	106	0.00
39	I	Acenaphthene-d10	1.000	1.000	0.0	107	0.00
40		1,2,4,5-Tetrachlorobenzene	0.649	0.673	-3.7	109	0.00
41	P	Hexachlorocyclopentadiene	0.344	0.374	-8.7	111	0.00
42	S	2,4,6-Tribromophenol	0.283	0.295	-4.2	109	0.00
43	C	2,4,6-Trichlorophenol	0.416	0.441	-6.0	109	0.00
44		2,4,5-Trichlorophenol	0.482	0.503	-4.4	108	0.00
45	S	2-Fluorobiphenyl	1.583	1.618	-2.2	107	0.00
46		1,1'-Biphenyl	1.621	1.644	-1.4	107	0.00
47		2-Chloronaphthalene	1.211	1.231	-1.7	107	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM072823\
Data File : BM041166.D
Acq On : 28 Jul 2023 15:16
Operator : MA/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
ICVBM072823

Quant Time: Jul 29 00:23:16 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Jul 29 00:19:24 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
48		2-Nitroaniline	0.386	0.410	-6.2	106	0.00
49		Acenaphthylene	1.954	1.990	-1.8	106	0.00
50		Dimethylphthalate	1.504	1.530	-1.7	108	0.00
51		2,6-Dinitrotoluene	0.312	0.325	-4.2	107	0.00
52	C	Acenaphthene	1.177	1.189	-1.0	107	0.00
53		3-Nitroaniline	0.326	0.350	-7.4	106	0.00
54	P	2,4-Dinitrophenol	0.180	0.189	-5.0	108	0.00
55		Dibenzofuran	1.921	1.919	0.1	106	0.00
56	P	4-Nitrophenol	0.260	0.265	-1.9	105	0.00
57		2,4-Dinitrotoluene	0.402	0.432	-7.5	108	0.00
58		Fluorene	1.515	1.517	-0.1	106	0.00
59		2,3,4,6-Tetrachlorophenol	0.390	0.405	-3.8	109	0.00
60		Diethylphthalate	1.455	1.492	-2.5	108	0.00
61		4-Chlorophenyl-phenylether	0.759	0.781	-2.9	108	0.00
62		4-Nitroaniline	0.284	0.315	-10.9	108	0.00
63		Azobenzene	1.594	1.632	-2.4	105	0.00
64	I	Phenanthrene-d10	1.000	1.000	0.0	108	0.00
65		4,6-Dinitro-2-methylphenol	0.121	0.129	-6.6	109	0.00
66	c	n-Nitrosodiphenylamine	0.622	0.642	-3.2	107	0.00
67		4-Bromophenyl-phenylether	0.219	0.229	-4.6	110	0.00
68		Hexachlorobenzene	0.244	0.252	-3.3	110	0.00
69		Atrazine	0.163	0.174	-6.7	110	0.00
70	C	Pentachlorophenol	0.169	0.181	-7.1	108	0.00
71		Phenanthrene	1.111	1.116	-0.5	107	0.00
72		Anthracene	1.099	1.133	-3.1	107	0.00
73		Carbazole	0.995	1.022	-2.7	106	0.00
74		Di-n-butylphthalate	1.124	1.216	-8.2	109	0.00
75	C	Fluoranthene	1.248	1.281	-2.6	107	0.00
76	I	Chrysene-d12	1.000	1.000	0.0	106	0.00
77		Benzidine	0.273	0.345	-26.4#	111	0.00
78		Pyrene	1.399	1.441	-3.0	107	0.00
79	S	Terphenyl-d14	1.106	1.169	-5.7	109	0.00
80		Butylbenzylphthalate	0.511	0.565	-10.6	109	0.00
81		Benzo(a)anthracene	1.356	1.391	-2.6	106	0.00
82		3,3'-Dichlorobenzidine	0.442	0.476	-7.7	106	0.00
83		Chrysene	1.311	1.316	-0.4	106	0.00
84		Bis(2-ethylhexyl)phthalate	0.730	0.818	-12.1	109	0.00
85	c	Di-n-octyl phthalate	1.291	1.367	-5.9	109	0.00
86	I	Perylene-d12	1.000	1.000	0.0	105	0.00
87		Indeno(1,2,3-cd)pyrene	1.470	1.515	-3.1	105	0.00
88		Benzo(b)fluoranthene	1.188	1.206	-1.5	105	0.00
89		Benzo(k)fluoranthene	1.215	1.281	-5.4	105	0.00
90	C	Benzo(a)pyrene	1.142	1.191	-4.3	106	0.00
91		Dibenzo(a,h)anthracene	1.226	1.269	-3.5	106	0.00
92		Benzo(g,h,i)perylene	1.200	1.227	-2.3	105	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM072823\
Data File : BM041166.D
Acq On : 28 Jul 2023 15:16
Operator : MA/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
ICVBM072823

Quant Time: Jul 29 00:23:16 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Jul 29 00:19:24 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev Area%	Dev(min)

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

Evaluate Continuing Calibration Report

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM072823\
Data File : BM041166.D
Acq On : 28 Jul 2023 15:16
Operator : MA/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
ICVBM072823

Quant Time: Jul 29 00:23:16 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Jul 29 00:19:24 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	20.000	20.000	0.0	106	0.00
2		1,4-Dioxane	40.000	39.247	1.9	104	0.00
3		Pyridine	40.000	40.612	-1.5	104	0.00
4		n-Nitrosodimethylamine	40.000	39.764	0.6	104	0.00
5	S	2-Fluorophenol	80.000	80.742	-0.9	105	0.00
6		Aniline	40.000	40.452	-1.1	106	0.00
7	S	Phenol-d6	80.000	80.726	-0.9	106	0.00
8		2-Chlorophenol	40.000	40.377	-0.9	107	0.00
9		Benzaldehyde	40.000	39.220	2.0	108	0.00
10	C	Phenol	40.000	40.156	-0.4	106	0.00
11		bis(2-Chloroethyl)ether	40.000	40.196	-0.5	106	0.00
12		1,3-Dichlorobenzene	40.000	40.170	-0.4	107	0.00
13	C	1,4-Dichlorobenzene	40.000	40.106	-0.3	107	0.00
14		1,2-Dichlorobenzene	40.000	40.026	-0.1	107	0.00
15		Benzyl Alcohol	40.000	41.479	-3.7	109	0.00
16		2,2'-oxybis(1-Chloropropane	40.000	39.627	0.9	105	0.00
17		2-Methylphenol	40.000	40.633	-1.6	106	0.00
18		Hexachloroethane	40.000	41.025	-2.6	106	0.00
19	P	n-Nitroso-di-n-propylamine	40.000	41.032	-2.6	106	0.00
20		3+4-Methylphenols	40.000	40.779	-1.9	106	0.00
21	I	Naphthalene-d8	20.000	20.000	0.0	106	0.00
22		Acetophenone	40.000	40.250	-0.6	105	0.00
23	S	Nitrobenzene-d5	80.000	82.190	-2.7	106	0.00
24		Nitrobenzene	40.000	40.898	-2.2	106	0.00
25		Isophorone	40.000	41.538	-3.8	107	0.00
26	C	2-Nitrophenol	40.000	43.261	-8.2	109	0.00
27		2,4-Dimethylphenol	40.000	41.418	-3.5	106	0.00
28		bis(2-Chloroethoxy)methane	40.000	40.583	-1.5	105	0.00
29	C	2,4-Dichlorophenol	40.000	41.972	-4.9	107	0.00
30		1,2,4-Trichlorobenzene	40.000	41.295	-3.2	109	0.00
31		Naphthalene	40.000	39.924	0.2	106	0.00
32		Benzoic acid	40.000	38.460	3.8	107	0.00
33		4-Chloroaniline	40.000	41.475	-3.7	107	0.00
34	C	Hexachlorobutadiene	40.000	41.707	-4.3	108	0.00
35		Caprolactam	40.000	41.763	-4.4	109	0.00
36	C	4-Chloro-3-methylphenol	40.000	40.967	-2.4	106	0.00
37		2-Methylnaphthalene	40.000	40.605	-1.5	107	0.00
38		1-Methylnaphthalene	40.000	40.268	-0.7	106	0.00
39	I	Acenaphthene-d10	20.000	20.000	0.0	107	0.00
40		1,2,4,5-Tetrachlorobenzene	40.000	41.458	-3.6	109	0.00
41	P	Hexachlorocyclopentadiene	40.000	43.543	-8.9	111	0.00
42	S	2,4,6-Tribromophenol	80.000	83.546	-4.4	109	0.00
43	C	2,4,6-Trichlorophenol	40.000	42.396	-6.0	109	0.00
44		2,4,5-Trichlorophenol	40.000	41.723	-4.3	108	0.00
45	S	2-Fluorobiphenyl	80.000	81.770	-2.2	107	0.00
46		1,1'-Biphenyl	40.000	40.560	-1.4	107	0.00
47		2-Chloronaphthalene	40.000	40.683	-1.7	107	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM072823\
Data File : BM041166.D
Acq On : 28 Jul 2023 15:16
Operator : MA/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
ICVBM072823

Quant Time: Jul 29 00:23:16 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Jul 29 00:19:24 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
48		2-Nitroaniline	40.000	42.415	-6.0	106	0.00
49		Acenaphthylene	40.000	40.739	-1.8	106	0.00
50		Dimethylphthalate	40.000	40.683	-1.7	108	0.00
51		2,6-Dinitrotoluene	40.000	41.734	-4.3	107	0.00
52	C	Acenaphthene	40.000	40.387	-1.0	107	0.00
53		3-Nitroaniline	40.000	39.274	1.8	106	0.00
54	P	2,4-Dinitrophenol	40.000	39.049	2.4	108	0.00
55		Dibenzofuran	40.000	39.974	0.1	106	0.00
56	P	4-Nitrophenol	40.000	40.764	-1.9	105	0.00
57		2,4-Dinitrotoluene	40.000	39.317	1.7	108	0.00
58		Fluorene	40.000	40.050	-0.1	106	0.00
59		2,3,4,6-Tetrachlorophenol	40.000	41.478	-3.7	109	0.00
60		Diethylphthalate	40.000	41.032	-2.6	108	0.00
61		4-Chlorophenyl-phenylether	40.000	41.150	-2.9	108	0.00
62		4-Nitroaniline	40.000	38.766	3.1	108	0.00
63		Azobenzene	40.000	40.975	-2.4	105	0.00
64	I	Phenanthrene-d10	20.000	20.000	0.0	108	0.00
65		4,6-Dinitro-2-methylphenol	40.000	42.716	-6.8	109	0.00
66	c	n-Nitrosodiphenylamine	40.000	41.267	-3.2	107	0.00
67		4-Bromophenyl-phenylether	40.000	41.862	-4.7	110	0.00
68		Hexachlorobenzene	40.000	41.312	-3.3	110	0.00
69		Atrazine	40.000	42.592	-6.5	110	0.00
70	C	Pentachlorophenol	40.000	42.807	-7.0	108	0.00
71		Phenanthrene	40.000	40.180	-0.4	107	0.00
72		Anthracene	40.000	41.241	-3.1	107	0.00
73		Carbazole	40.000	41.093	-2.7	106	0.00
74		Di-n-butylphthalate	40.000	43.263	-8.2	109	0.00
75	C	Fluoranthene	40.000	41.033	-2.6	107	0.00
76	I	Chrysene-d12	20.000	20.000	0.0	106	0.00
77		Benzidine	40.000	50.664	-26.7#	111	0.00
78		Pyrene	40.000	41.205	-3.0	107	0.00
79	S	Terphenyl-d14	80.000	84.577	-5.7	109	0.00
80		Butylbenzylphthalate	40.000	44.286	-10.7	109	0.00
81		Benzo(a)anthracene	40.000	41.039	-2.6	106	0.00
82		3,3'-Dichlorobenzidine	40.000	43.047	-7.6	106	0.00
83		Chrysene	40.000	40.144	-0.4	106	0.00
84		Bis(2-ethylhexyl)phthalate	40.000	40.723	-1.8	109	0.00
85	c	Di-n-octyl phthalate	40.000	42.367	-5.9	109	0.00
86	I	Perylene-d12	20.000	20.000	0.0	105	0.00
87		Indeno(1,2,3-cd)pyrene	40.000	41.209	-3.0	105	0.00
88		Benzo(b)fluoranthene	40.000	40.613	-1.5	105	0.00
89		Benzo(k)fluoranthene	40.000	42.174	-5.4	105	0.00
90	C	Benzo(a)pyrene	40.000	41.731	-4.3	106	0.00
91		Dibenzo(a,h)anthracene	40.000	41.396	-3.5	106	0.00
92		Benzo(g,h,i)perylene	40.000	40.912	-2.3	105	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM072823\
Data File : BM041166.D
Acq On : 28 Jul 2023 15:16
Operator : MA/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
ICVBM072823

Quant Time: Jul 29 00:23:16 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Jul 29 00:19:24 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)

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

Response Factor Report MSBNA_P

Method Path : Z:\svoasrv\HPCHEM1\BNA_P\Methods\
Method File : 8270E-BP072723.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Jul 28 01:48:25 2023
Response Via : Initial Calibration

Calibration Files
2.5 =BP016393.D 5 =BP016394.D 10 =BP016395.D 20 =BP016396.D 40 =BP016397.D 50 =BP016398.D 60 =BP016399.D 80 =BP0164
00.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------ISTD----------									
2)		1,4-Dioxane		0.517	0.525	0.536	0.459	0.431	0.449	0.430	0.478	9.69
3)		Pyridine		1.511	1.512	1.564	1.407	1.327	1.381	1.304	1.429	7.04
4)		n-Nitrosodimet...		0.577	0.594	0.598	0.524	0.490	0.511	0.478	0.539	9.32
5)	S	2-Fluorophenol		1.268	1.295	1.337	1.221	1.146	1.195	1.119	1.226	6.47
6)		Aniline		2.144	2.213	2.245	2.091	1.964	2.003	1.869	2.076	6.60
7)	S	Phenol-d6		1.726	1.792	1.834	1.690	1.584	1.638	1.498	1.680	6.99
8)		2-Chlorophenol		1.320	1.344	1.383	1.307	1.217	1.258	1.169	1.285	5.84
9)		Benzaldehyde		1.166	1.128	1.019	0.800	0.697	0.673	0.581	0.866	27.22
10)	C	Phenol		1.696	1.757	1.780	1.633	1.527	1.575	1.455	1.632	7.39
11)		bis(2-Chloroet...		1.436	1.442	1.431	1.318	1.231	1.267	1.161	1.326	8.51
12)		1,3-Dichlorobe...		1.467	1.464	1.473	1.375	1.294	1.337	1.247	1.380	6.63
13)	C	1,4-Dichlorobe...		1.493	1.481	1.496	1.395	1.315	1.357	1.261	1.400	6.70
14)		1,2-Dichlorobe...		1.438	1.433	1.442	1.355	1.267	1.303	1.196	1.348	7.16
15)		Benzyl Alcohol		1.148	1.212	1.224	1.170	1.097	1.145	1.040	1.148	5.57
16)		2,2'-oxybis(1-...		1.687	1.699	1.655	1.477	1.367	1.387	1.260	1.504	11.74
17)		2-Methylphenol		1.202	1.249	1.263	1.193	1.114	1.153	1.058	1.176	6.22
18)		Hexachloroethane		0.530	0.539	0.540	0.496	0.462	0.482	0.447	0.499	7.58
19)	P	n-Nitroso-di-n...	1.120	1.114	1.153	1.132	1.056	0.970	0.988	0.889	1.053	8.96
20)		3+4-Methylphenols		1.604	1.672	1.697	1.631	1.533	1.586	1.458	1.597	5.13
21)	I	Naphthalene-d8	----------ISTD----------									
22)		Acetophenone		0.521	0.526	0.539	0.506	0.478	0.495	0.470	0.505	5.09
23)	S	Nitrobenzene-d5		0.345	0.365	0.386	0.362	0.345	0.358	0.341	0.357	4.32
24)		Nitrobenzene		0.366	0.376	0.393	0.368	0.351	0.366	0.348	0.367	4.13
25)		Isophorone		0.717	0.744	0.762	0.731	0.691	0.720	0.685	0.721	3.79
26)	C	2-Nitrophenol		0.103	0.114	0.138	0.153	0.155	0.164	0.163	0.141	17.23
27)		2,4-Dimethylph...		0.318	0.328	0.343	0.327	0.313	0.318	0.313	0.323	3.31
28)		bis(2-Chloroet...		0.459	0.459	0.467	0.443	0.419	0.434	0.412	0.442	4.79
29)	C	2,4-Dichloroph...		0.269	0.280	0.307	0.318	0.307	0.322	0.311	0.302	6.61
30)		1,2,4-Trichlor...		0.318	0.320	0.330	0.337	0.322	0.339	0.324	0.327	2.56
31)		Naphthalene		1.079	1.074	1.100	1.052	0.999	1.037	0.982	1.046	4.14
32)		Benzoic acid			0.128	0.168	0.197	0.202	0.220	0.229	0.191	19.57
33)		4-Chloroaniline		0.463	0.470	0.493	0.481	0.458	0.477	0.461	0.472	2.70
34)	C	Hexachlorobuta...		0.185	0.181	0.189	0.204	0.197	0.204	0.197	0.194	4.78
35)		Caprolactam		0.096	0.107	0.115	0.114	0.110	0.117	0.114	0.110	6.58
36)	C	4-Chloro-3-met...		0.313	0.329	0.352	0.346	0.330	0.347	0.332	0.336	4.12
37)		2-Methylnaphth...		0.768	0.773	0.781	0.776	0.735	0.763	0.723	0.760	2.91
38)		1-Methylnaphth...		0.724	0.725	0.734	0.726	0.691	0.714	0.673	0.713	3.11

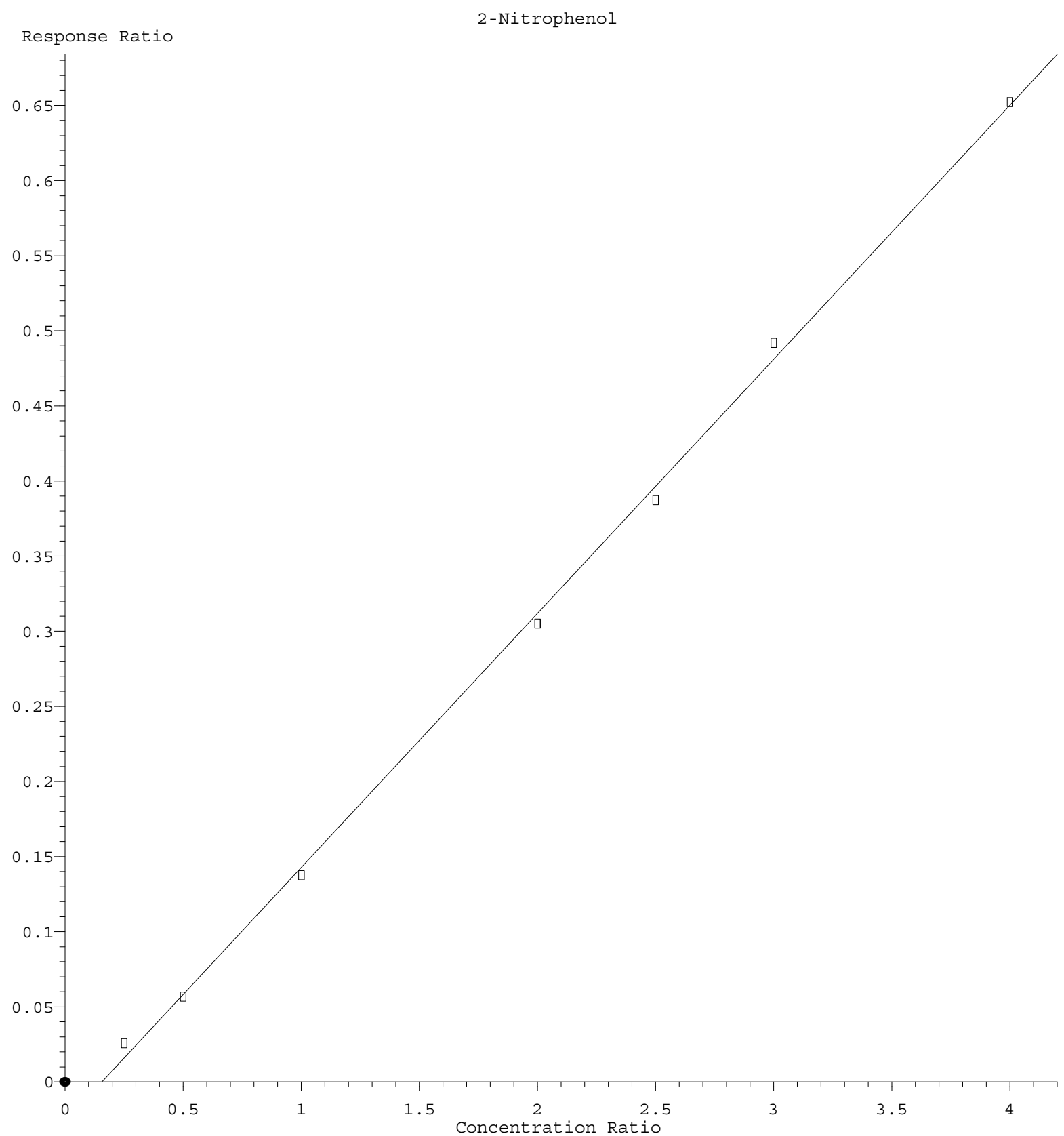
Method Path : Z:\svoasrv\HPCHEM1\BNA_P\Methods\
Method File : 8270E-BP072723.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.578	0.586	0.604	0.631	0.606	0.639	0.610	0.608	3.66
41)	P	Hexachlorocycl...	0.248	0.264	0.291	0.333	0.330	0.334	0.337	0.305	12.22
42)	S	2,4,6-Tribromo...		0.232	0.256	0.318	0.307	0.330	0.323	0.294	13.74
43)	C	2,4,6-Trichlor...	0.324	0.350	0.394	0.417	0.404	0.427	0.413	0.390	9.85
44)		2,4,5-Trichlor...	0.403	0.434	0.476	0.501	0.489	0.514	0.495	0.473	8.44
45)	S	2-Fluorobiphenyl	1.465	1.474	1.485	1.418	1.317	1.361	1.245	1.395	6.51
46)		1,1'-Biphenyl	1.562	1.576	1.606	1.538	1.449	1.513	1.428	1.525	4.32
47)		2-Chloronaphth...	1.165	1.177	1.208	1.165	1.095	1.147	1.094	1.150	3.68
48)		2-Nitroaniline	0.275	0.302	0.350	0.338	0.324	0.344	0.337	0.324	8.31
49)		Acenaphthylene	1.880	1.956	2.038	1.935	1.825	1.914	1.810	1.908	4.13
50)		Dimethylphthalate	1.574	1.599	1.622	1.567	1.495	1.563	1.489	1.559	3.19
51)		2,6-Dinitrotol...	0.267	0.301	0.331	0.335	0.322	0.345	0.334	0.319	8.48
52)	C	Acenaphthene	1.136	1.167	1.192	1.151	1.082	1.136	1.080	1.135	3.67
53)		3-Nitroaniline	0.305	0.339	0.378	0.374	0.362	0.389	0.379	0.361	8.18
54)	P	2,4-Dinitrophenol		0.079	0.098	0.122	0.130	0.145	0.155	0.121	23.36
55)		Dibenzofuran	1.899	1.912	1.956	1.877	1.771	1.859	1.754	1.861	3.98
56)	P	4-Nitrophenol	0.215	0.261	0.298	0.296	0.288	0.312	0.308	0.283	12.12
57)		2,4-Dinitrotol...	0.305	0.363	0.430	0.450	0.435	0.468	0.462	0.416	14.45
58)		Fluorene	1.497	1.526	1.561	1.494	1.381	1.444	1.334	1.462	5.55
59)		2,3,4,6-Tetrac...	0.327	0.351	0.377	0.417	0.406	0.424	0.422	0.389	9.84
60)		Diethylphthalate	1.552	1.585	1.637	1.564	1.470	1.550	1.484	1.549	3.71
61)		4-Chlorophenyl...	0.734	0.742	0.761	0.765	0.721	0.749	0.693	0.738	3.36
62)		4-Nitroaniline	0.287	0.338	0.383	0.375	0.358	0.387	0.380	0.358	10.02
63)		Azobenzene	1.525	1.576	1.635	1.436	1.336	1.396	1.336	1.462	8.07
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.056	0.072	0.087	0.091	0.098	0.100	0.084	20.44
66)	c	n-Nitrosodiphe...	0.605	0.604	0.630	0.597	0.563	0.584	0.544	0.589	4.88
67)		4-Bromophenyl-...	0.199	0.196	0.208	0.224	0.215	0.224	0.216	0.212	5.37
68)		Hexachlorobenzene	0.224	0.220	0.226	0.250	0.241	0.251	0.240	0.236	5.39
69)		Atrazine	0.172	0.179	0.189	0.181	0.173	0.168	0.164	0.175	4.74
70)	C	Pentachlorophenol		0.129	0.150	0.172	0.171	0.182	0.177	0.163	12.36
71)		Phenanthrene	1.110	1.108	1.125	1.068	1.004	1.040	0.979	1.062	5.32
72)		Anthracene	1.071	1.091	1.138	1.088	1.027	1.067	0.994	1.068	4.38
73)		Carbazole	1.007	1.037	1.080	1.010	0.951	0.992	0.932	1.001	5.01
74)		Di-n-butylphth...	1.098	1.165	1.277	1.199	1.132	1.174	1.063	1.158	6.05
75)	C	Fluoranthene	1.191	1.241	1.310	1.288	1.222	1.273	1.187	1.245	3.84
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine	0.407	0.409	0.292	0.381	0.316	0.299	0.323	0.347	14.61
78)		Pyrene	1.380	1.383	1.451	1.363	1.291	1.304	1.213	1.341	5.79
79)	S	Terphenyl-d14	1.054	1.046	1.071	0.997	0.888	0.866	0.705	0.947	14.17
80)		Butylbenzylpht...	0.462	0.504	0.583	0.544	0.527	0.543	0.524	0.527	7.12
81)		Benzo(a)anthra...	1.346	1.379	1.413	1.368	1.297	1.334	1.257	1.342	3.91
82)		3,3'-Dichlorob...	0.387	0.420	0.439	0.470	0.451	0.465	0.452	0.441	6.57
83)		Chrysene	1.319	1.332	1.364	1.296	1.220	1.265	1.176	1.281	5.15
84)		Bis(2-ethylhex...	0.712	0.789	0.880	0.811	0.779	0.806	0.759	0.791	6.53
85)	c	Di-n-octyl pht...	1.158	1.309	1.466	1.361	1.317	1.387	1.311	1.330	7.09

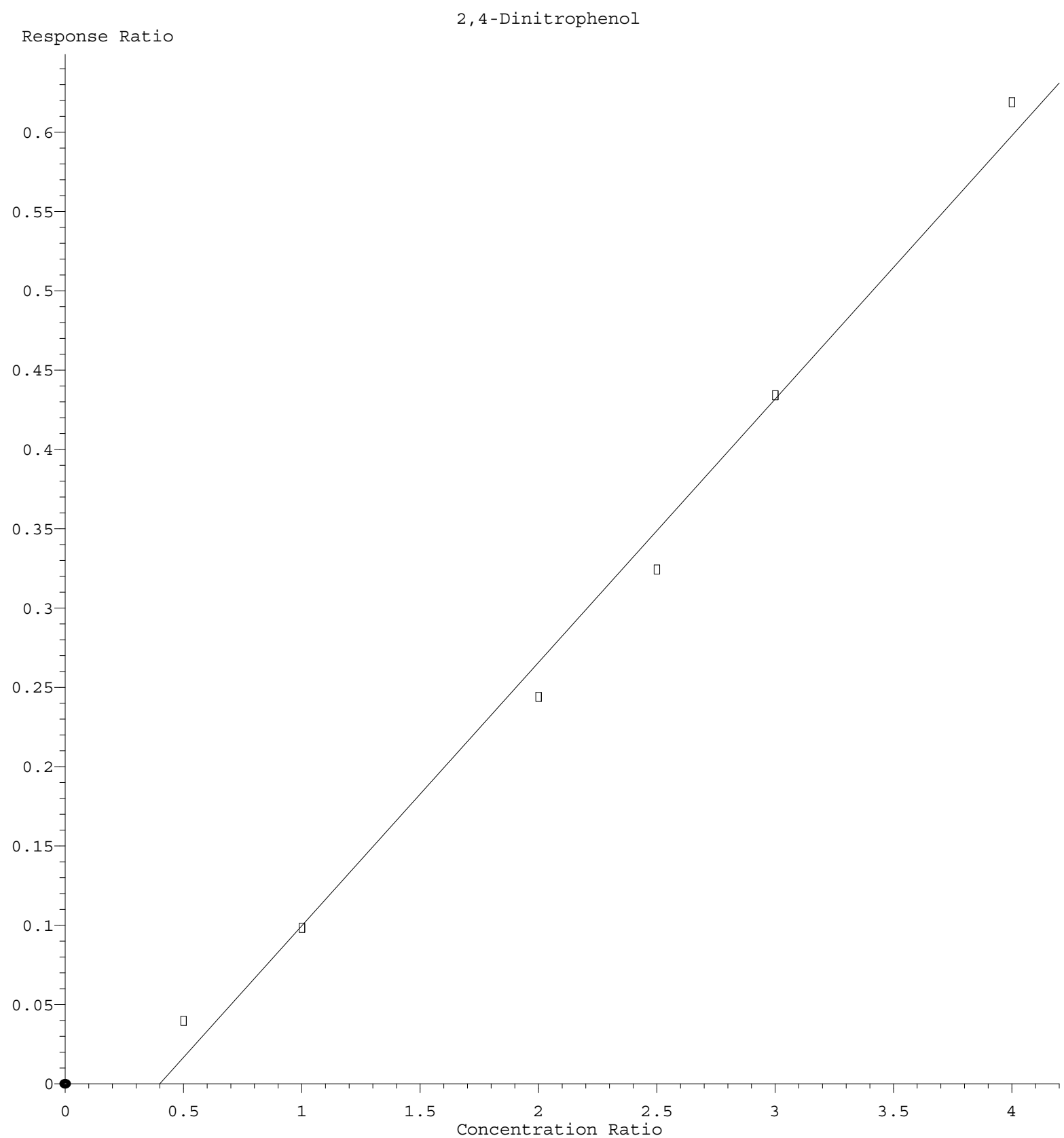
Method Path : Z:\svoasrv\HPCHEM1\BNA_P\Methods\
Method File : 8270E-BP072723.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.247	1.341	1.398	1.350	1.305	1.437	1.360	1.348	4.56
88)		Benzo(b)fluora...	1.126	1.123	1.209	1.215	1.160	1.174	1.108	1.159	3.67
89)		Benzo(k)fluora...	1.139	1.193	1.246	1.222	1.145	1.188	1.121	1.179	3.91
90)	C	Benzo(a)pyrene	1.063	1.096	1.168	1.167	1.111	1.155	1.101	1.123	3.64
91)		Dibenzo(a,h)an...	1.037	1.129	1.170	1.135	1.086	1.193	1.121	1.124	4.58
92)		Benzo(g,h,i)pe...	1.006	1.094	1.131	1.074	1.033	1.153	1.095	1.084	4.77

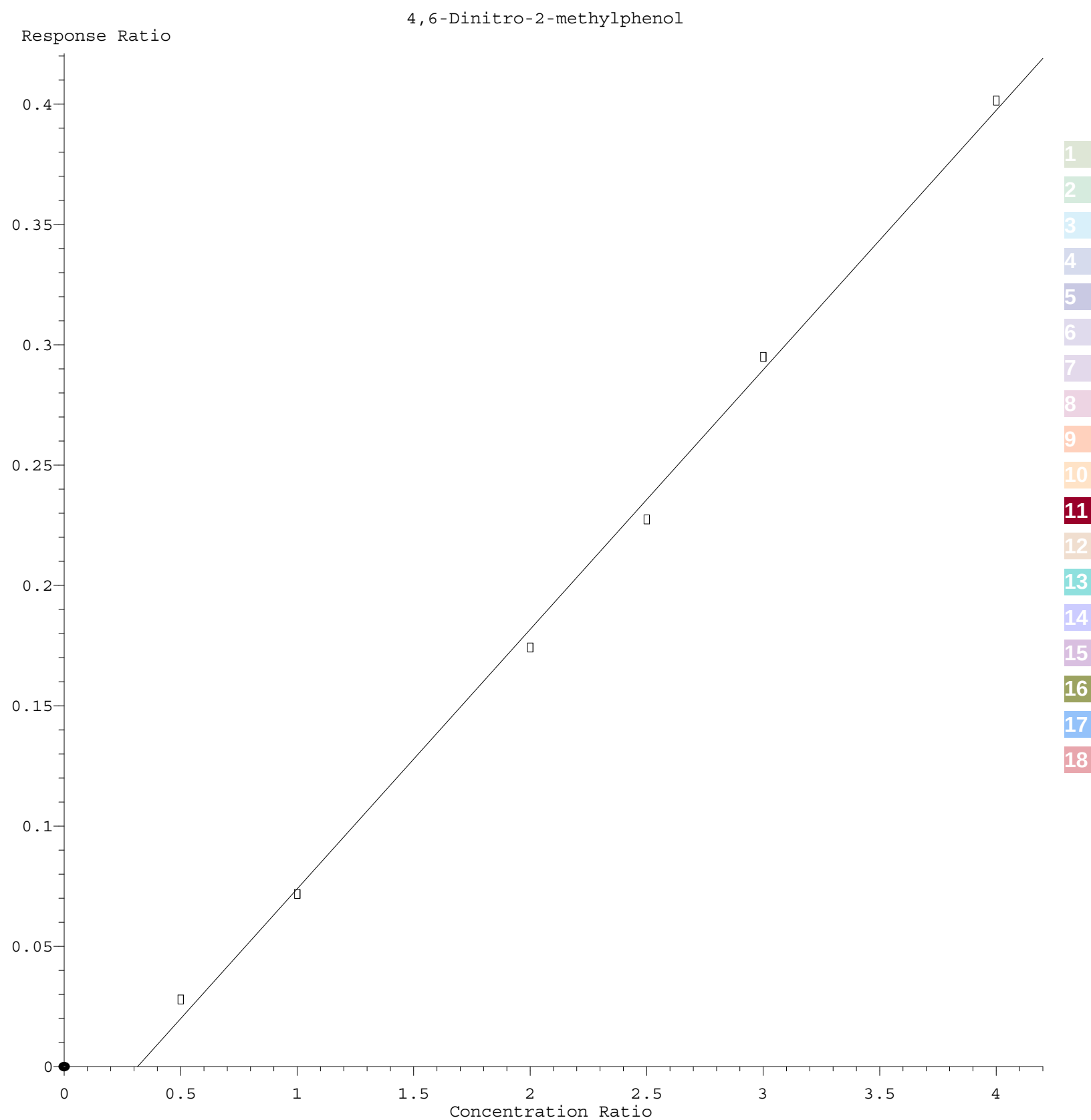
(#) = Out of Range



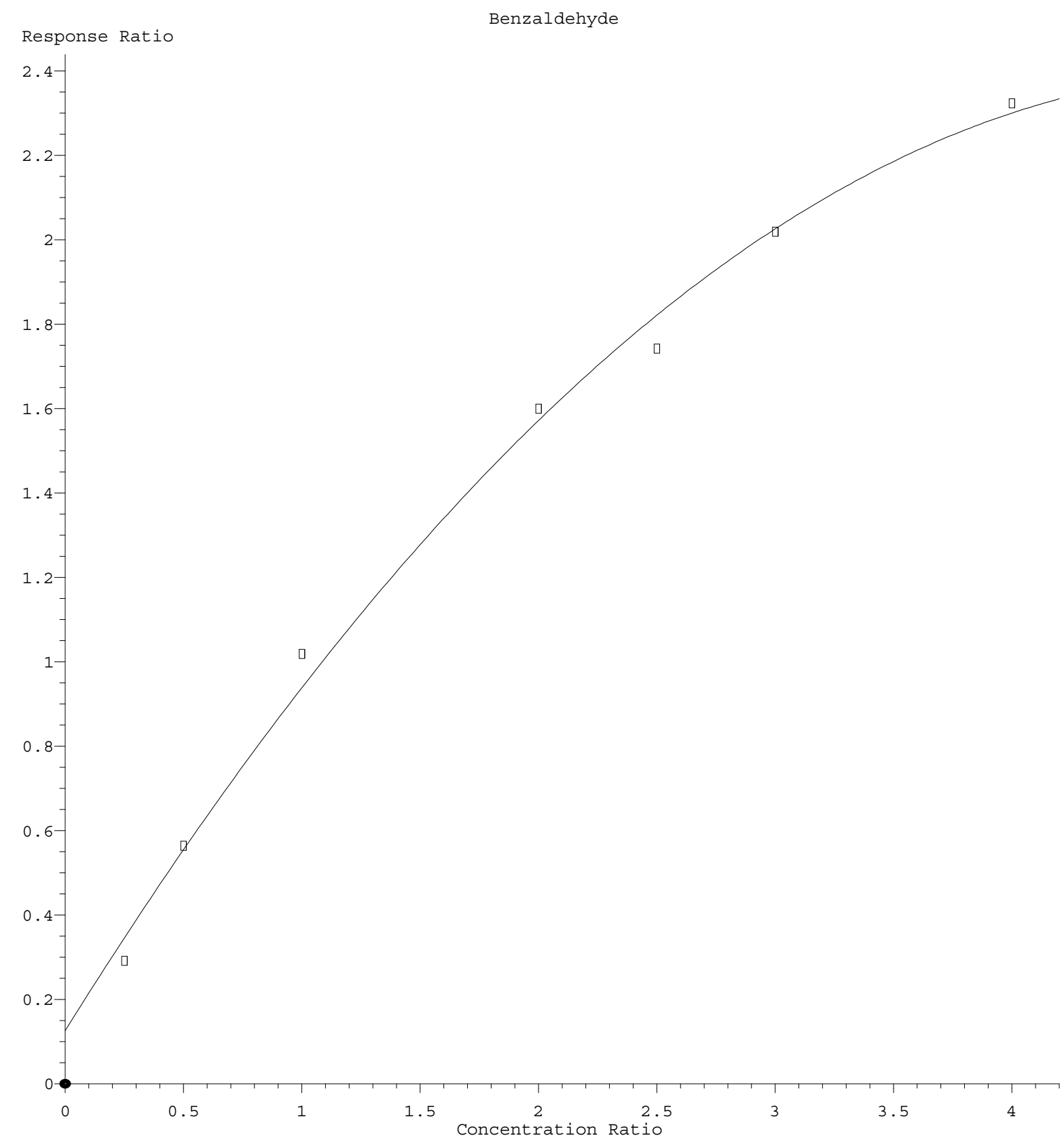
Response = 1.692e-001 * Amt - 2.644e-002
Coef of Det (r^2) = 0.998839 Curve Fit: Linear
Method: \\chromsrv\HPCHEM1\BNA P\Methods\8270E-BP072723.M
Calibration Table Last Updated: Fri Jul 28 01:48:25 2023



Response = 1.660e-001 * Amt - 6.640e-002
Coef of Det (r^2) = 0.991124 Curve Fit: Linear
Method: \\chemsrv\HPCHEM1\BNA P\Methods\8270E-BP072723.M
Calibration Table Last Updated: Fri Jul 28 01:48:25 2023



Response = 1.078e-001 * Amt - 3.396e-002
Coef of Det (r^2) = 0.997548 Curve Fit: Linear
Method: \\chemsrv\HPCHEM1\MSVOA_Group1\chemsrv\HPCHEM1\BNA P\Methods\8270E-BP072723.M
Calibration Table Last Updated: Fri Jul 28 01:48:25 2023



R = -8.971e-002 A*A + 9.024e-001 A + 1.258e-001
Coef of Det (r^2) = 0.995051 Curve Fit: Quadratic
Method: \\chemsrv\HPCHEM1\BNA P\Methods\8270E-BP072723.M
Calibration Table Last Updated: Fri Jul 28 01:48:25 2023

Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP072723\
Data File : BP016393.D
Acq On : 27 Jul 2023 11:03
Operator : MA/JU
Sample : SSTDICC2.5
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICC2.5

Quant Time: Jul 27 14:00:07 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP072723.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jul 27 13:57:37 2023
Response via : Initial Calibration

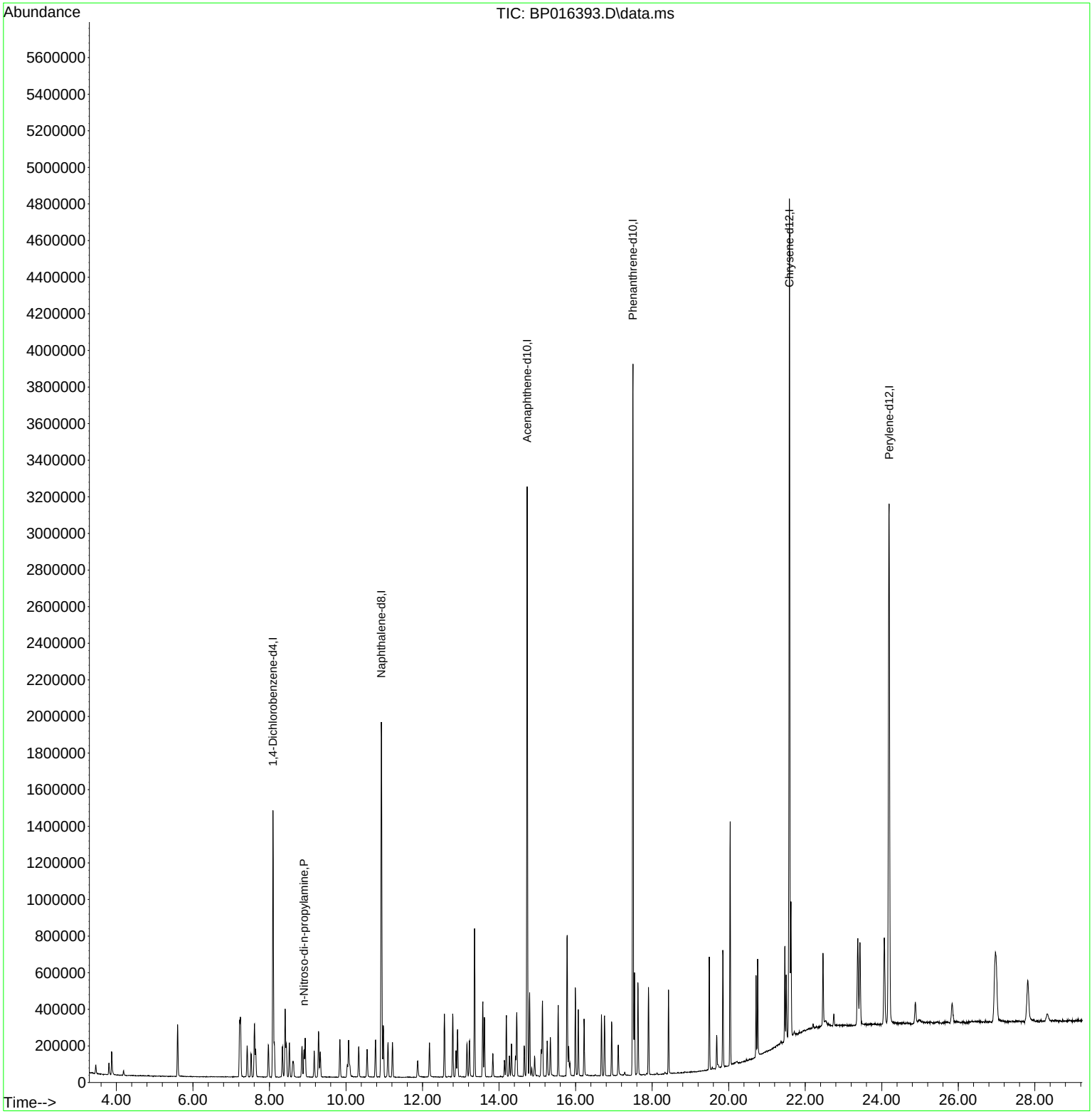
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.093	152	386117	20.000	ng	0.00
21) Naphthalene-d8	10.922	136	1627195	20.000	ng	0.00
39) Acenaphthene-d10	14.734	164	1021289	20.000	ng	0.00
64) Phenanthrene-d10	17.498	188	2251817	20.000	ng	0.00
76) Chrysene-d12	21.586	240	2069965	20.000	ng	# 0.00
86) Perylene-d12	24.192	264	2294989	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0d	0.000	ng	
7) Phenol-d6	0.000	99	0d	0.000	ng	
23) Nitrobenzene-d5	0.000	82	0d	0.000	ng	
42) 2,4,6-Tribromophenol	0.000	330	0d	0.000	ng	
45) 2-Fluorobiphenyl	0.000	172	0d	0.000	ng	
79) Terphenyl-d14	0.000	244	0d	0.000	ng	
Target Compounds						Qvalue
19) n-Nitroso-di-n-propyla...	8.899	70	54045	2.765	ng	97

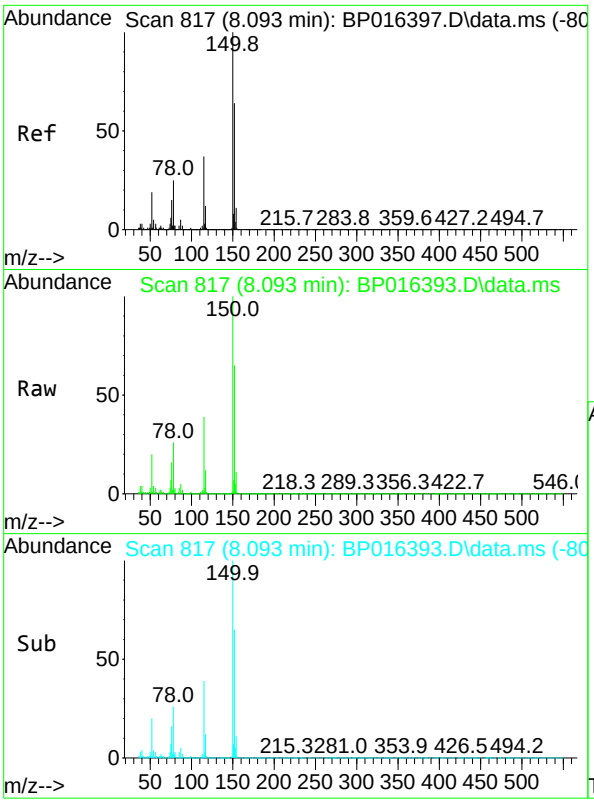
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP072723\
Data File : BP016393.D
Acq On : 27 Jul 2023 11:03
Operator : MA/JU
Sample : SSTDICC2.5
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICC2.5

Quant Time: Jul 27 14:00:07 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP072723.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jul 27 13:57:37 2023
Response via : Initial Calibration



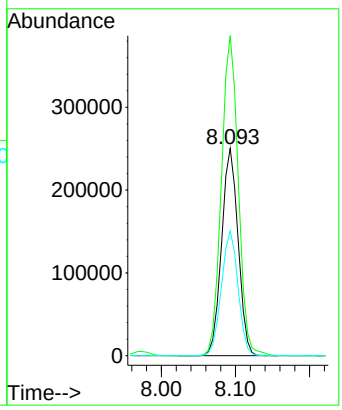


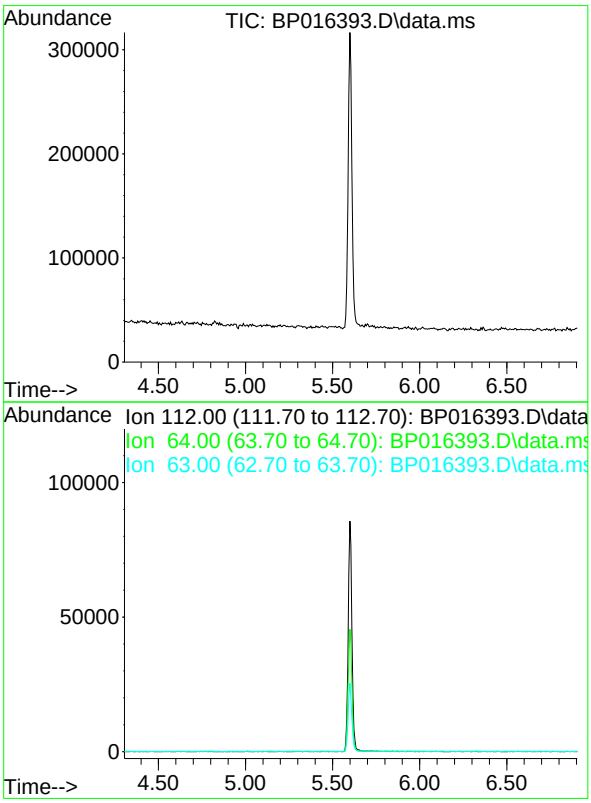
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.093 min Scan# 8
Delta R.T. -0.000 min
Lab File: BP016393.D
Acq: 27 Jul 2023 11:03

Instrument :
BNA_P
ClientSampleId :
SSTDICC2.5

Tgt Ion:152 Resp: 386117

Ion	Ratio	Lower	Upper
152	100		
150	154.4	124.9	187.3
115	60.1	46.8	70.2



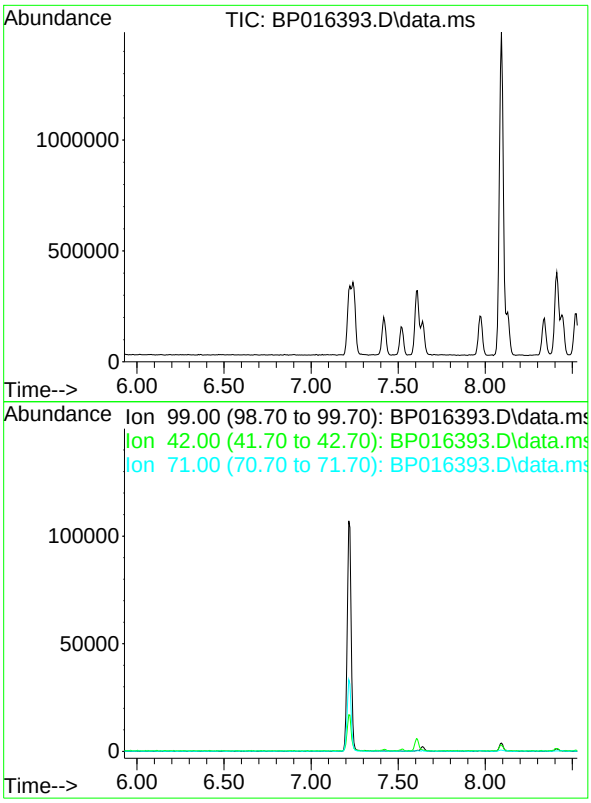


#5
2-Fluorophenol
Concen: 0.000 ng
Expected RT: 5.60 min

Lab File: BP016393.D
Acq: 27 Jul 2023 11:03

Tgt Ion: 112

Sig	Exp Ratio
112	100
64	50.0
63	26.5



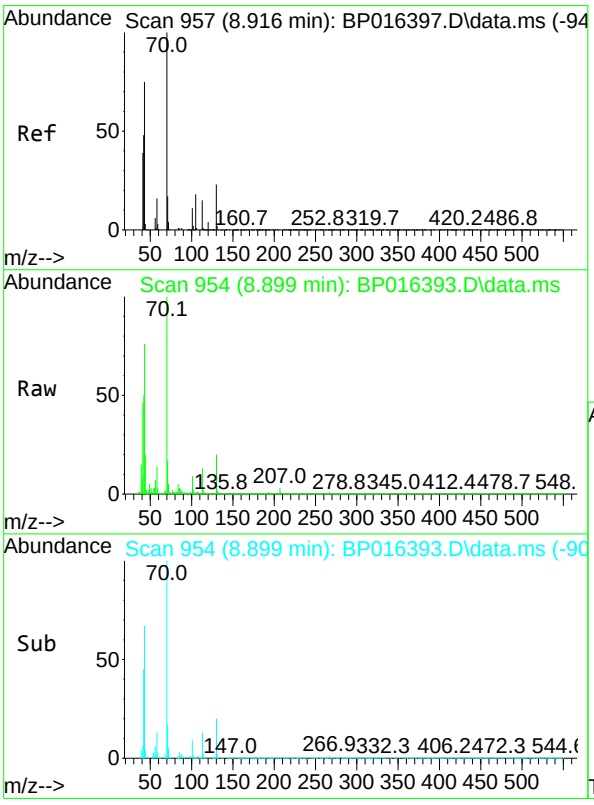
#7
Phenol-d6
Concen: 0.000 ng
Expected RT: 7.23 min

Lab File: BP016393.D
Acq: 27 Jul 2023 11:03

Instrument :
BNA_P
ClientSampleId :
SSTDICC2.5

Tgt Ion: 99

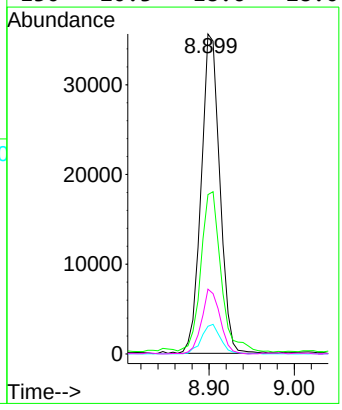
Sig	Exp Ratio
99	100
42	14.5
71	30.4

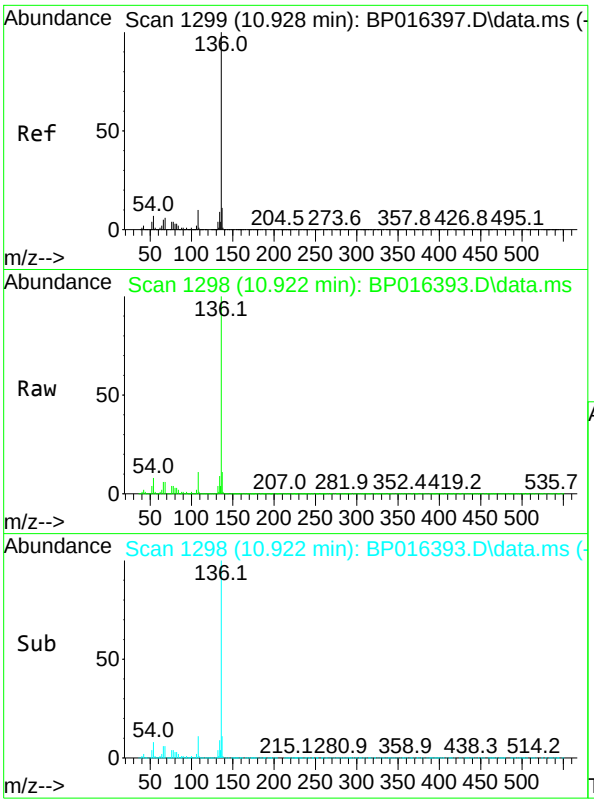


#19
n-Nitroso-di-n-propylamine
Concen: 2.765 ng
RT: 8.899 min Scan# 954
Delta R.T. -0.018 min
Lab File: BP016393.D
Acq: 27 Jul 2023 11:03

Tgt Ion: 70 Resp: 54045

Ion	Ratio	Lower	Upper
70	100		
42	49.8	39.3	58.9
101	8.7	8.6	12.8
130	20.3	18.6	28.0



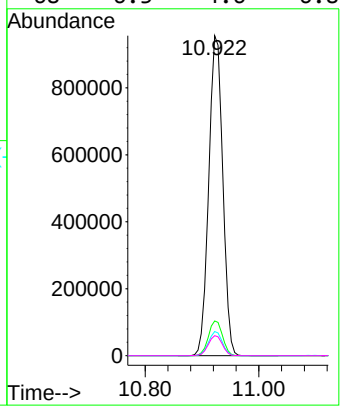


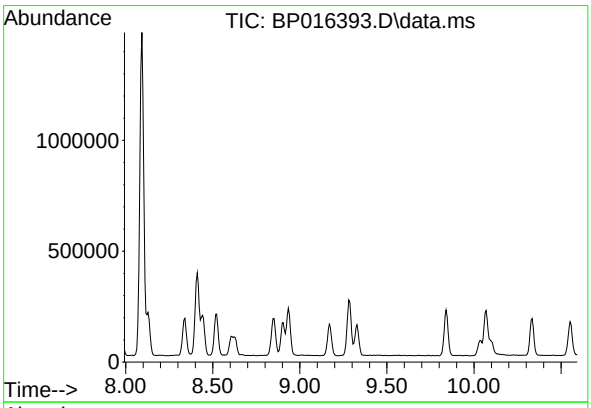
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.922 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP016393.D
Acq: 27 Jul 2023 11:03

Instrument :
BNA_P
ClientSampleId :
SSTDICC2.5

Tgt Ion:136 Resp: 1627195

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.6	13.0
54	7.6	5.6	8.4
68	6.3	4.6	6.8



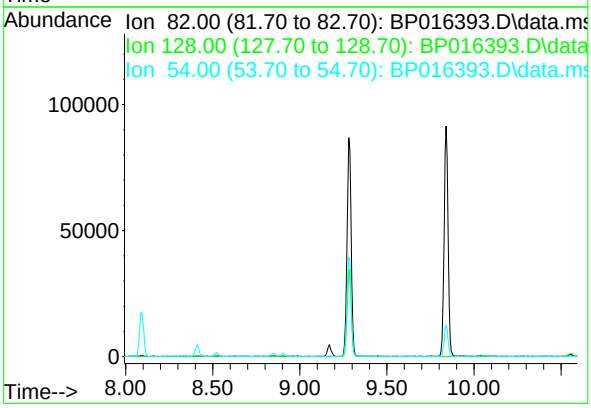


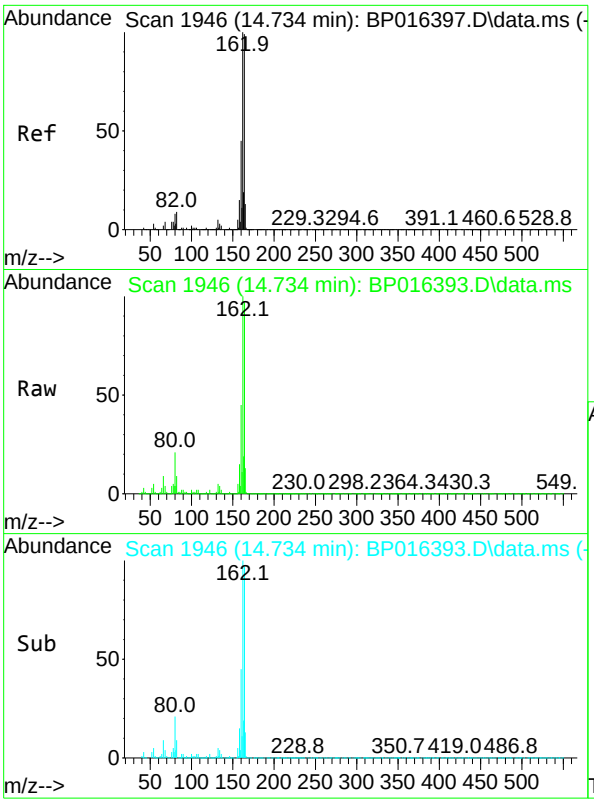
#23
Nitrobenzene-d5
Concen: 0.000 ng
Expected RT: 9.29 min

Lab File: BP016393.D
Acq: 27 Jul 2023 11:03

Tgt Ion: 82

Sig	Exp Ratio
82	100
128	45.8
54	43.1



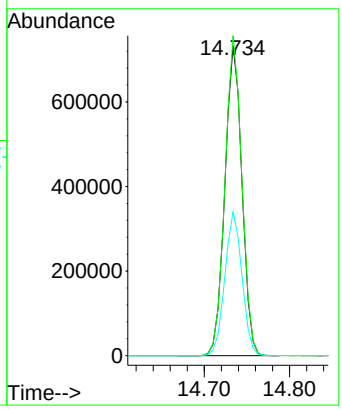


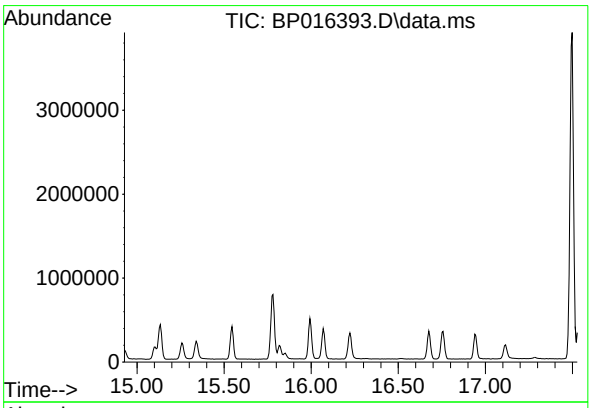
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.734 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP016393.D
Acq: 27 Jul 2023 11:03

Instrument :
BNA_P
ClientSampleId :
SSTDICC2.5

Tgt Ion:164 Resp: 1021289

Ion	Ratio	Lower	Upper
164	100		
162	103.2	81.0	121.6
160	46.4	36.6	55.0



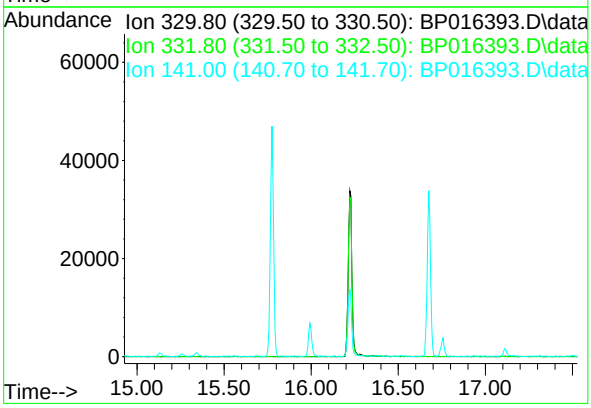


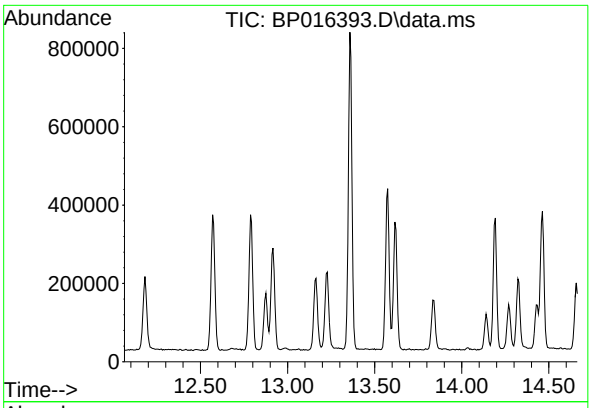
#42
2,4,6-Tribromophenol
Concen: 0.000 ng
Expected RT: 16.23 min

Lab File: BP016393.D
Acq: 27 Jul 2023 11:03

Tgt Ion: 330

Sig	Exp Ratio
330	100
332	97.3
141	28.3





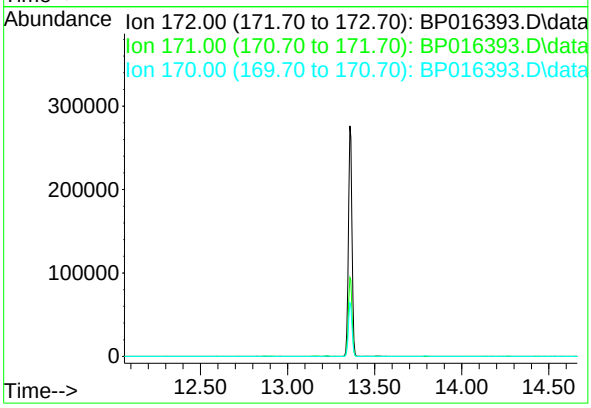
#45
2-Fluorobiphenyl
Concen: 0.000 ng
Expected RT: 13.36 min

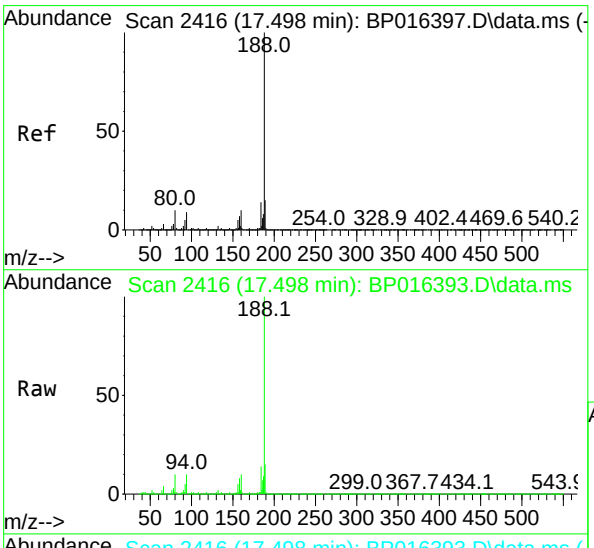
Lab File: BP016393.D
Acq: 27 Jul 2023 11:03

Instrument :
BNA_P
ClientSampleId :
SSTDICC2.5

Tgt Ion: 172

Sig	Exp Ratio
172	100
171	35.2
170	23.9

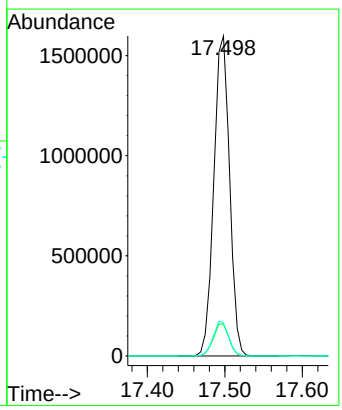


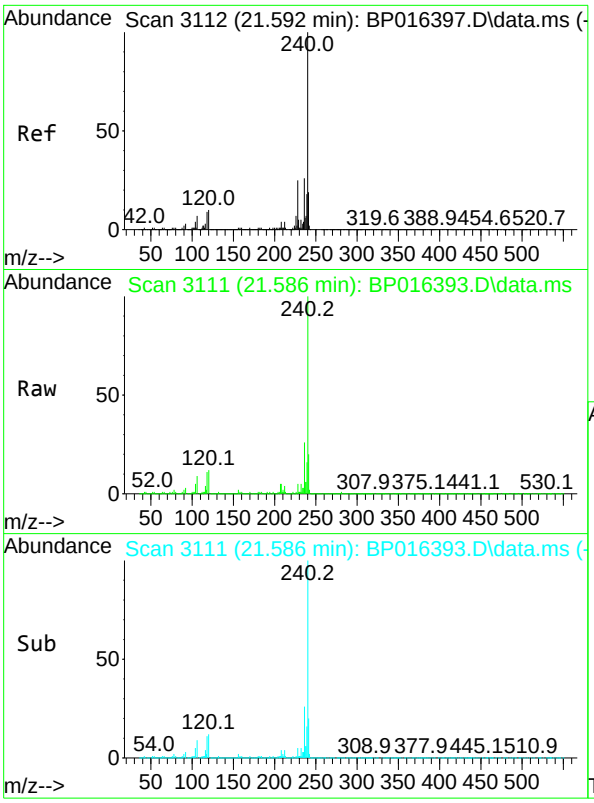


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.498 min Scan# 2416
Delta R.T. -0.000 min
Lab File: BP016393.D
Acq: 27 Jul 2023 11:03

Tgt Ion:188 Resp: 2251817

Ion	Ratio	Lower	Upper
188	100		
94	9.9	7.4	11.0
80	10.3	7.8	11.8



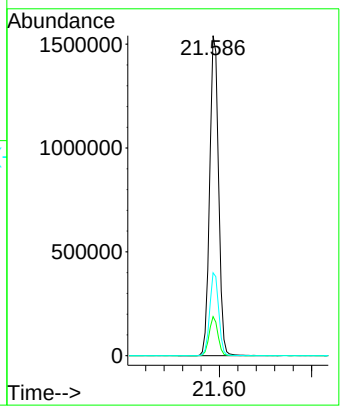


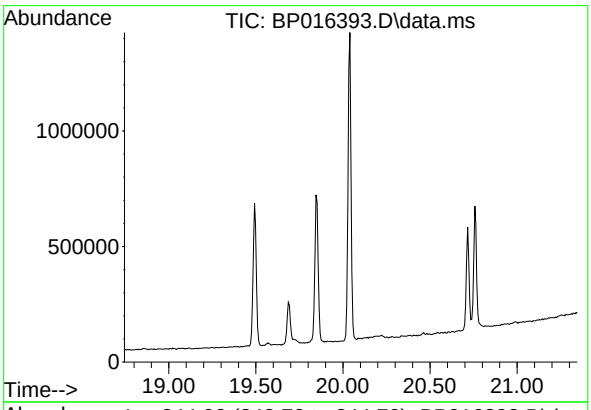
#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.586 min Scan# 3
Delta R.T. -0.006 min
Lab File: BP016393.D
Acq: 27 Jul 2023 11:03

Instrument :
BNA_P
ClientSampleId :
SSTDICC2.5

Tgt Ion:240 Resp: 2069965

Ion	Ratio	Lower	Upper
240	100		
120	12.2	7.9	11.9#
236	25.9	21.1	31.7



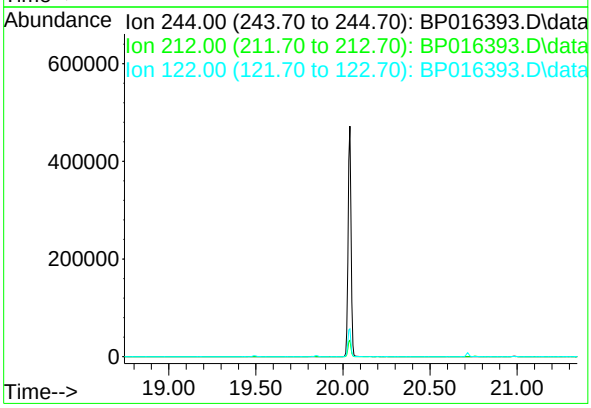


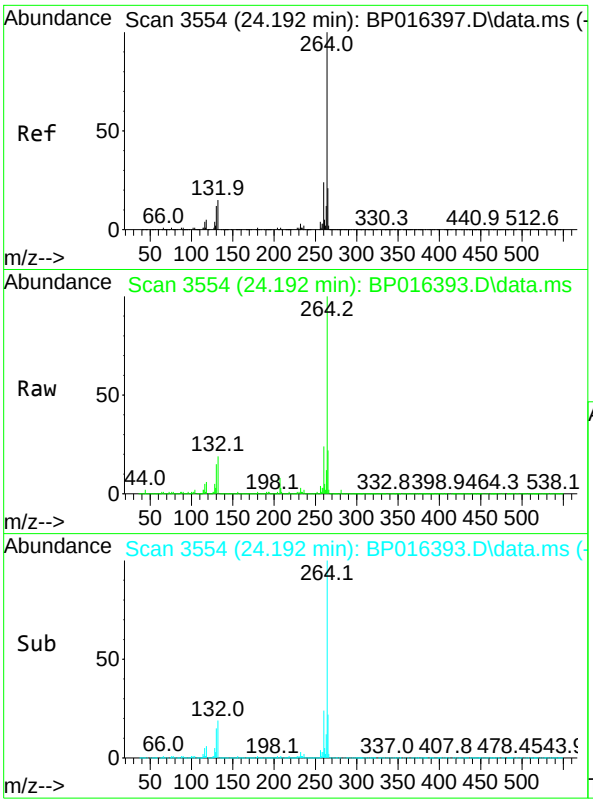
#79
Terphenyl-d14
Concen: 0.000 ng
Expected RT: 20.05 min

Lab File: BP016393.D
Acq: 27 Jul 2023 11:03

Tgt Ion: 244

Sig	Exp Ratio
244	100
212	7.0
122	9.3



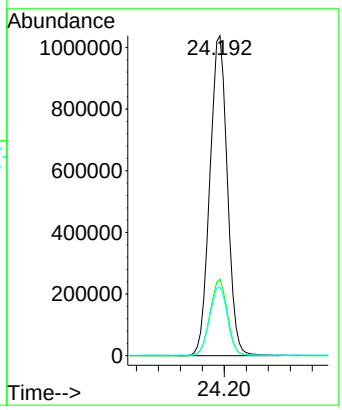


#86
Perylene-d12
Concen: 20.000 ng
RT: 24.192 min Scan# 3
Delta R.T. -0.000 min
Lab File: BP016393.D
Acq: 27 Jul 2023 11:03

Instrument :
BNA_P
ClientSampleId :
SSTDICC2.5

Tgt Ion:264 Resp: 2294989

Ion	Ratio	Lower	Upper
264	100		
260	23.9	19.3	28.9
265	21.6	17.4	26.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP072723\
Data File : BP016394.D
Acq On : 27 Jul 2023 11:37
Operator : MA/JU
Sample : SSTDICC005
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 27 17:35:54 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP072723.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jul 27 17:32:49 2023
Response via : Initial Calibration

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	8.093	152	380607	20.000	ng		0.00
21) Naphthalene-d8	10.922	136	1613288	20.000	ng		0.00
39) Acenaphthene-d10	14.734	164	1014199	20.000	ng		0.00
64) Phenanthrene-d10	17.498	188	2182918	20.000	ng		0.00
76) Chrysene-d12	21.586	240	1991981	20.000	ng	#	0.00
86) Perylene-d12	24.186	264	2209674	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.599	112	241254	10.341	ng		0.00
7) Phenol-d6	7.222	99	328494	10.273	ng		0.00
23) Nitrobenzene-d5	9.287	82	278170	9.652	ng		0.00
42) 2,4,6-Tribromophenol	0.000	330	0d	0.000	ng		
45) 2-Fluorobiphenyl	13.357	172	742829	10.501	ng		0.00
79) Terphenyl-d14	20.039	244	1049845	11.133	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.464	88	49241	5.412	ng		94
3) Pyridine	3.875	79	143753	5.370	ng		99
4) n-Nitrosodimethylamine	3.805	42	54922	5.356	ng	#	97
6) Aniline	7.416	93	203960	5.164	ng		96
8) 2-Chlorophenol	7.640	128	125576	5.134	ng		96
9) Benzaldehyde	7.240	77	110905	3.740	ng		94
10) Phenol	7.246	94	161333	5.195	ng		98
11) bis(2-Chloroethyl)ether	7.522	93	136635	5.413	ng		99
12) 1,3-Dichlorobenzene	7.975	146	139603	5.316	ng		95
13) 1,4-Dichlorobenzene	8.128	146	142084	5.334	ng		98
14) 1,2-Dichlorobenzene	8.446	146	136799	5.334	ng		98
15) Benzyl Alcohol	8.340	79	109250	5.001	ng		99
16) 2,2'-oxybis(1-Chloropr...	8.628	45	160526	5.607	ng		98
17) 2-Methylphenol	8.522	107	114366	5.110	ng		99
18) Hexachloroethane	9.169	117	50417	5.306	ng		95
19) n-Nitroso-di-n-propyla...	8.904	70	105976	5.290	ng		95
20) 3+4-Methylphenols	8.851	107	152623	5.021	ng		98
22) Acetophenone	8.934	105	210151	5.159	ng	#	97
24) Nitrobenzene	9.328	77	147501	4.983	ng		94
25) Isophorone	9.840	82	289341	4.973	ng		99
26) 2-Nitrophenol	10.034	139	41534	6.169	ng	#	86
27) 2,4-Dimethylphenol	10.069	122	128406	4.933	ng		98
28) bis(2-Chloroethoxy)met...	10.334	93	184960	5.190	ng		97
29) 2,4-Dichlorophenol	10.551	162	108365	4.448	ng		96
30) 1,2,4-Trichlorobenzene	10.775	180	128190	4.858	ng		99
31) Naphthalene	10.975	128	434991	5.155	ng		99
33) 4-Chloroaniline	11.098	127	186559	4.901	ng		97
34) Hexachlorobutadiene	11.210	225	74435	4.765	ng		98
35) Caprolactam	11.875	113	38690	4.345	ng		91
36) 4-Chloro-3-methylphenol	12.181	107	126057	4.655	ng		94
37) 2-Methylnaphthalene	12.575	142	309790	5.053	ng		99
38) 1-Methylnaphthalene	12.787	142	291946	5.080	ng		98
40) 1,2,4,5-Tetrachloroben...	12.916	216	146539	4.755	ng		98
41) Hexachlorocyclopentadiene	12.875	237	62826	4.059	ng		95
43) 2,4,6-Trichlorophenol	13.163	196	82195	4.156	ng		100
44) 2,4,5-Trichlorophenol	13.228	196	102205	4.260	ng		94

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP072723\
Data File : BP016394.D
Acq On : 27 Jul 2023 11:37
Operator : MA/JU
Sample : SSTDICC005
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 27 17:35:54 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP072723.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jul 27 17:32:49 2023
Response via : Initial Calibration

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) 1,1'-Biphenyl	13.575	154	396149	5.124	ng		99
47) 2-Chloronaphthalene	13.616	162	295265	5.062	ng		98
48) 2-Nitroaniline	13.839	65	69729	4.241	ng		90
49) Acenaphthylene	14.463	152	476729	4.926	ng		99
50) Dimethylphthalate	14.192	163	399188	5.051	ng		98
51) 2,6-Dinitrotoluene	14.328	165	67610	4.176	ng	#	85
52) Acenaphthene	14.798	154	288024	5.005	ng		97
53) 3-Nitroaniline	14.657	138	77327	4.224	ng	#	90
55) Dibenzofuran	15.134	168	481590	5.103	ng		98
56) 4-Nitrophenol	14.928	139	54453	3.800	ng		85
57) 2,4-Dinitrotoluene	15.104	165	77352	3.666	ng		86
58) Fluorene	15.781	166	379457	5.118	ng		99
59) 2,3,4,6-Tetrachlorophenol	15.339	232	82945	4.203	ng	#	92
60) Diethylphthalate	15.545	149	393519	5.010	ng		98
61) 4-Chlorophenyl-phenyle...	15.775	204	185987	4.971	ng		92
62) 4-Nitroaniline	15.822	138	72659	4.000	ng		88
63) Azobenzene	16.069	77	386539	5.212	ng		93
66) n-Nitrosodiphenylamine	15.998	169	329907	5.128	ng		98
67) 4-Bromophenyl-phenylether	16.675	248	108534	4.696	ng	#	91
68) Hexachlorobenzene	16.757	284	122178	4.740	ng		92
69) Atrazine	16.945	200	94080	4.917	ng		98
71) Phenanthrene	17.539	178	605954	5.228	ng		99
72) Anthracene	17.633	178	584576	5.016	ng		98
73) Carbazole	17.904	167	549296	5.027	ng		99
74) Di-n-butylphthalate	18.427	149	599100	4.739	ng		99
75) Fluoranthene	19.492	202	650092	4.785	ng		98
77) Benzidine	19.692	184	202764	5.871	ng		99
78) Pyrene	19.851	202	687282	5.147	ng		99
80) Butylbenzylphthalate	20.716	149	229981	4.384	ng		91
81) Benzo(a)anthracene	21.568	228	670192	5.014	ng		98
82) 3,3'-Dichlorobenzidine	21.504	252	192742	4.393	ng	#	97
83) Chrysene	21.627	228	656629	5.145	ng		99
84) Bis(2-ethylhexyl)phtha...	21.463	149	354548	4.502	ng	#	96
85) Di-n-octyl phthalate	22.463	149	576684	4.354	ng	#	96
87) Indeno(1,2,3-cd)pyrene	26.956	276	688990	4.625	ng	#	95
88) Benzo(b)fluoranthene	23.374	252	622107m	4.857	ng		
89) Benzo(k)fluoranthene	23.433	252	629255	4.831	ng		97
90) Benzo(a)pyrene	24.068	252	587132	4.732	ng		98
91) Dibenzo(a,h)anthracene	26.986	278	572950	4.612	ng	#	96
92) Benzo(g,h,i)perylene	27.809	276	555765	4.642	ng	#	96

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

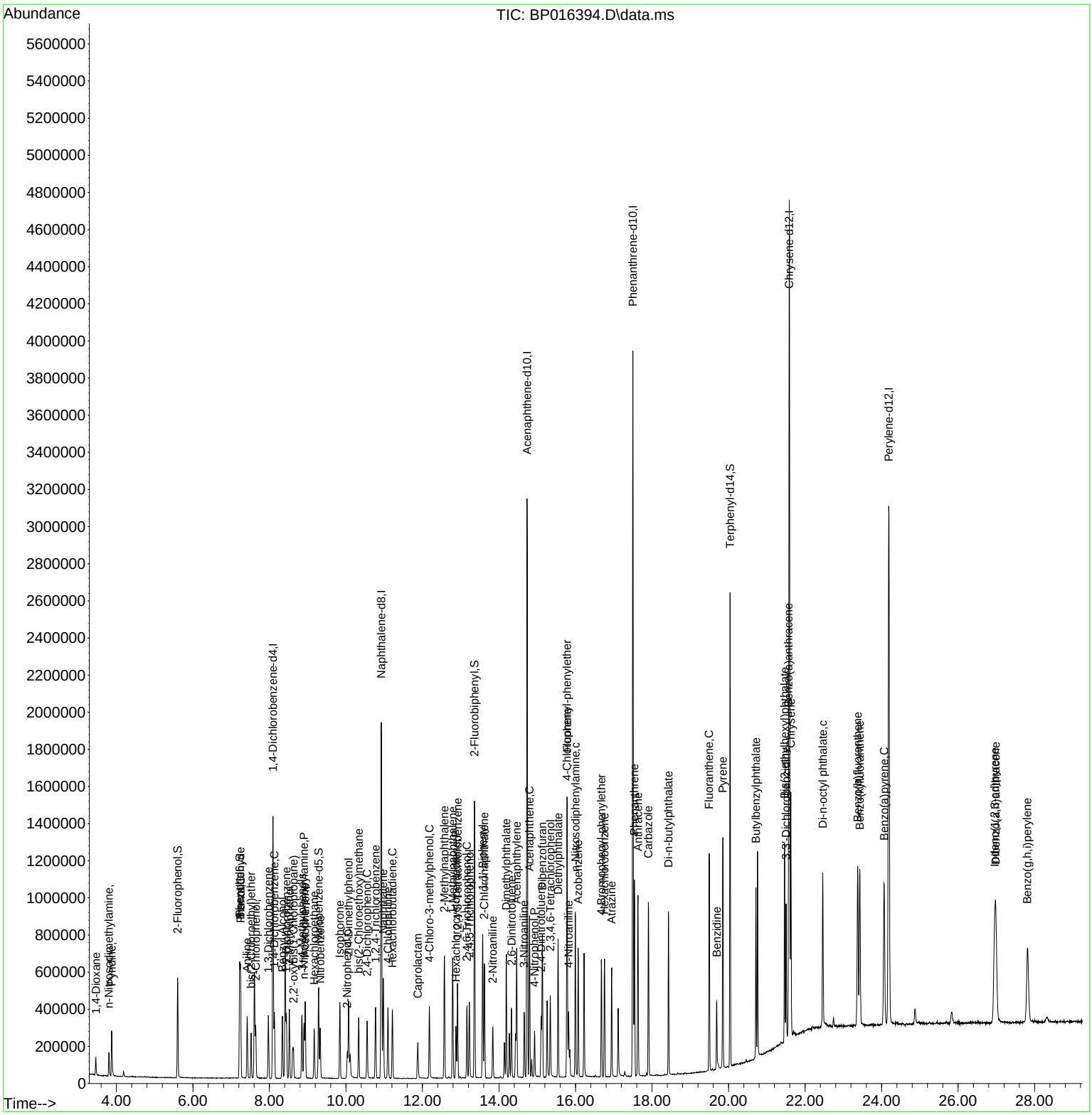
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP072723\
Data File : BP016394.D
Acq On : 27 Jul 2023 11:37
Operator : MA/JU
Sample : SSTDICC005
Misc :
ALS Vial : 3 Sample Multiplier: 1

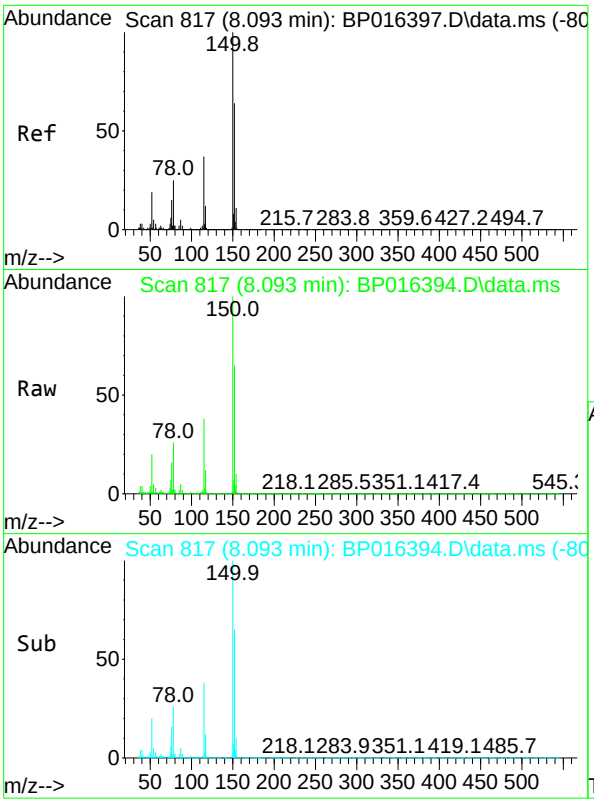
Quant Time: Jul 27 17:35:54 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP072723.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jul 27 17:32:49 2023
Response via : Initial Calibration

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

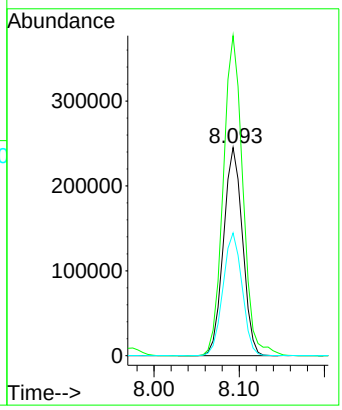




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.093 min Scan# 8
Delta R.T. -0.000 min
Lab File: BP016394.D
Acq: 27 Jul 2023 11:37

Tgt Ion:152 Resp: 38060

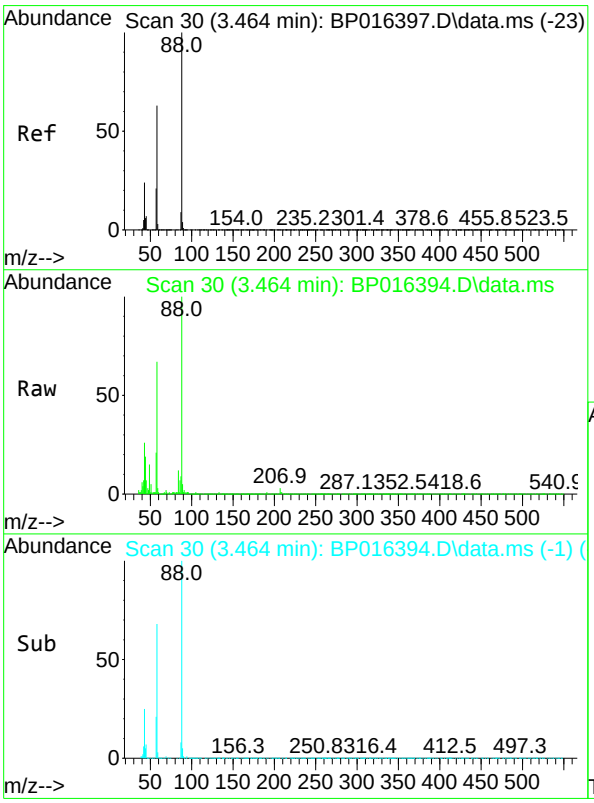
Ion	Ratio	Lower	Upper
152	100		
150	153.7	124.9	187.3
115	58.9	46.8	70.2



Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

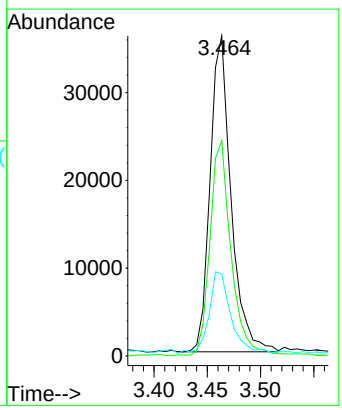
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

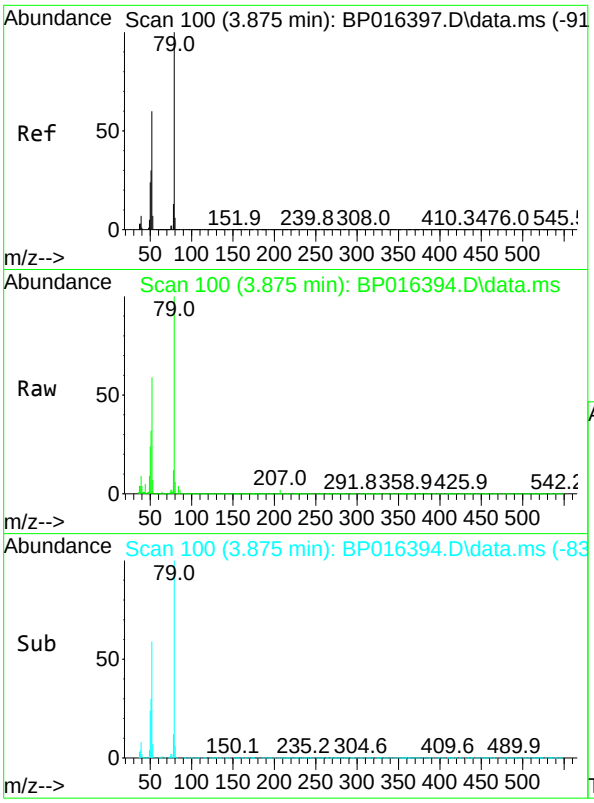


#2
1,4-Dioxane
Concen: 5.412 ng
RT: 3.464 min Scan# 30
Delta R.T. -0.000 min
Lab File: BP016394.D
Acq: 27 Jul 2023 11:37

Tgt Ion: 88 Resp: 49241

Ion	Ratio	Lower	Upper
88	100		
58	69.4	51.7	77.5
43	26.8	19.2	28.8

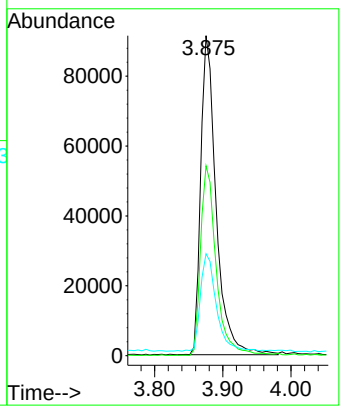




#3
Pyridine
Concen: 5.370 ng
RT: 3.875 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP016394.D
Acq: 27 Jul 2023 11:37

Tgt Ion: 79 Resp: 14375

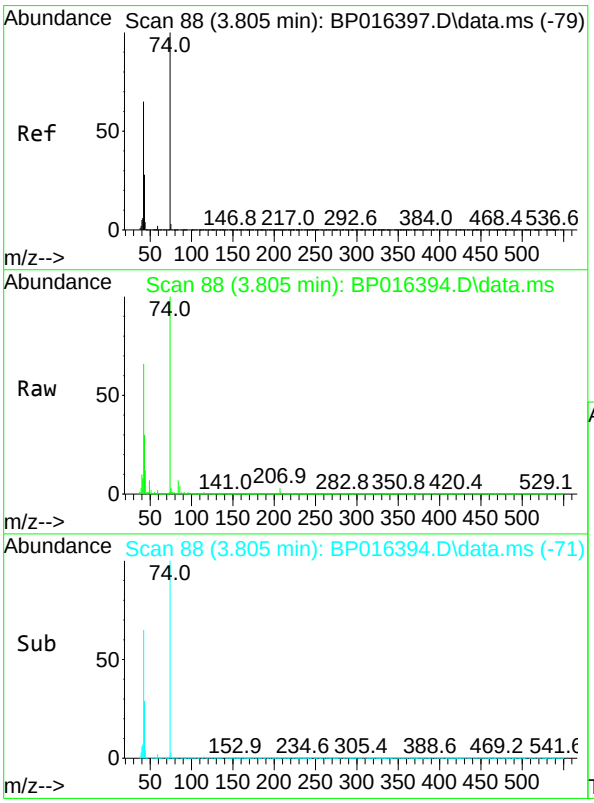
Ion	Ratio	Lower	Upper
79	100		
52	59.3	47.9	71.9
51	31.8	24.4	36.6



Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

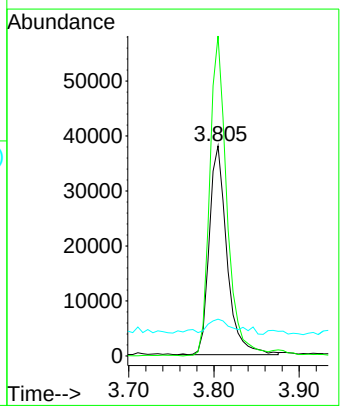
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

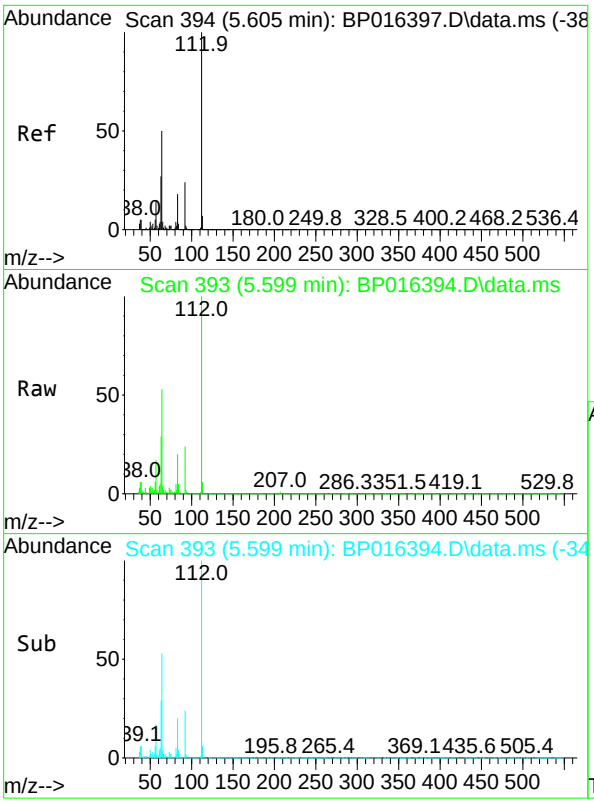


#4
n-Nitrosodimethylamine
Concen: 5.356 ng
RT: 3.805 min Scan# 88
Delta R.T. -0.000 min
Lab File: BP016394.D
Acq: 27 Jul 2023 11:37

Tgt Ion: 42 Resp: 54922

Ion	Ratio	Lower	Upper
42	100		
74	152.3	123.8	185.8
44	17.5	5.5	8.3#

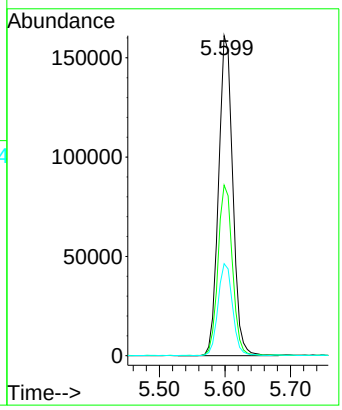




#5
2-Fluorophenol
Concen: 10.341 ng
RT: 5.599 min Scan# 3
Delta R.T. -0.006 min
Lab File: BP016394.D
Acq: 27 Jul 2023 11:37

Tgt Ion:112 Resp: 24125

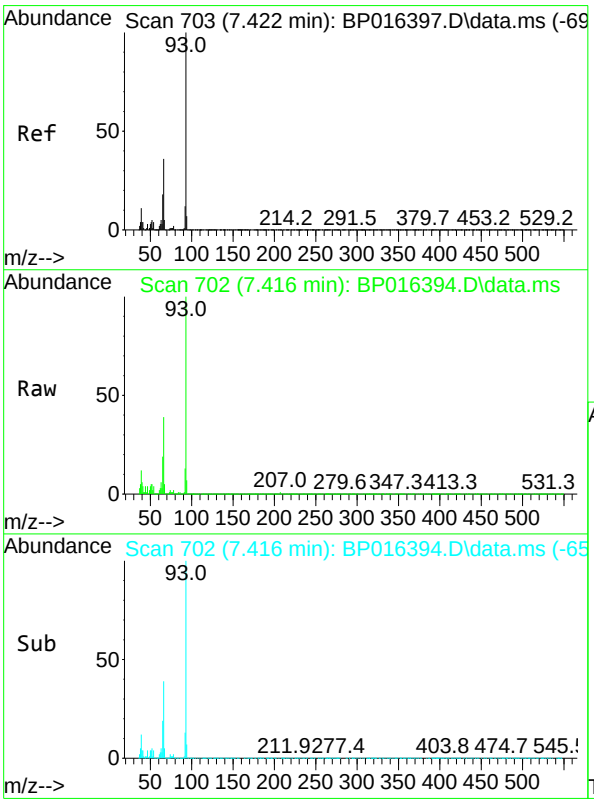
Ion	Ratio	Lower	Upper
112	100		
64	53.3	40.0	60.0
63	28.8	21.2	31.8



Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

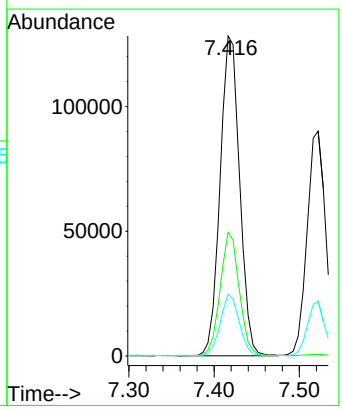
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

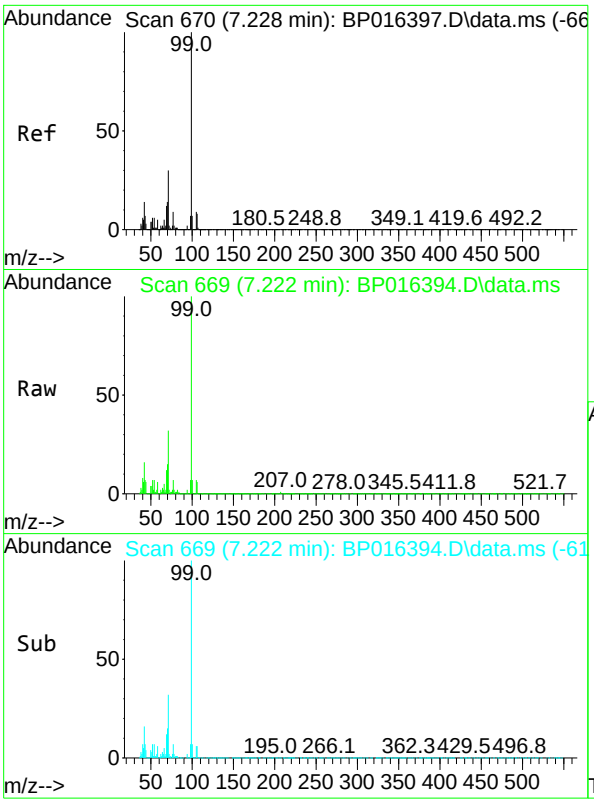


#6
Aniline
Concen: 5.164 ng
RT: 7.416 min Scan# 702
Delta R.T. -0.006 min
Lab File: BP016394.D
Acq: 27 Jul 2023 11:37

Tgt Ion: 93 Resp: 203960

Ion	Ratio	Lower	Upper
93	100		
66	38.6	28.9	43.3
65	19.3	14.7	22.1

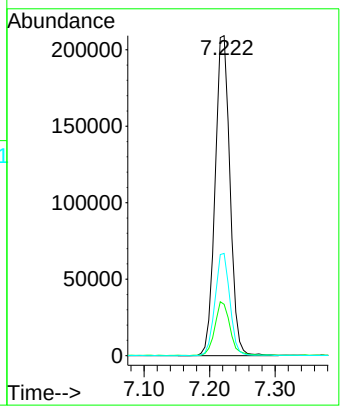




#7
Phenol-d6
Concen: 10.273 ng
RT: 7.222 min Scan# 6
Delta R.T. -0.006 min
Lab File: BP016394.D
Acq: 27 Jul 2023 11:37

Tgt Ion: 99 Resp: 32849

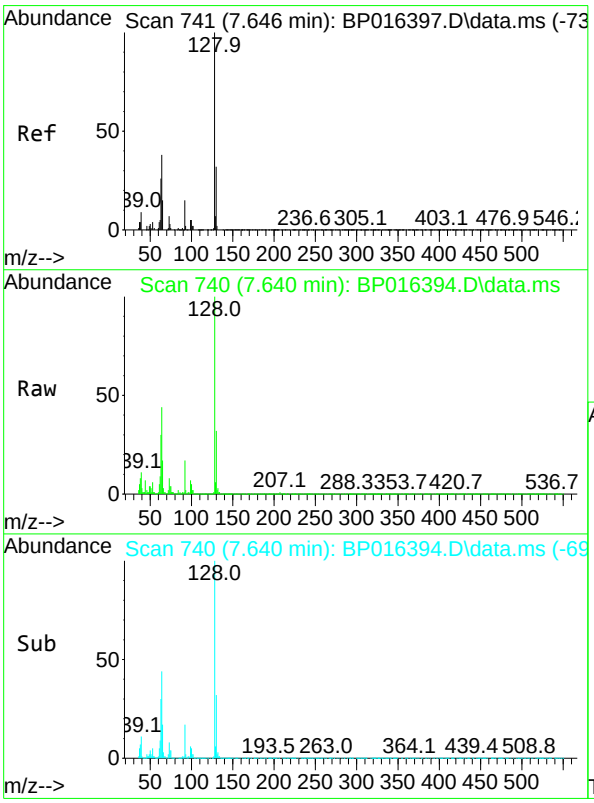
Ion	Ratio	Lower	Upper
99	100		
42	16.1	11.6	17.4
71	32.0	24.3	36.5



Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

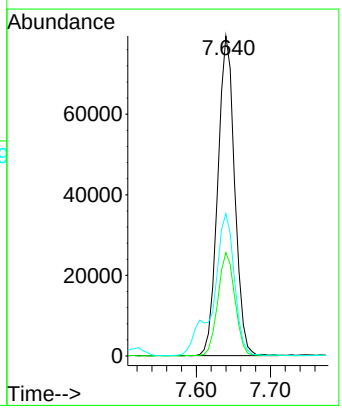
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

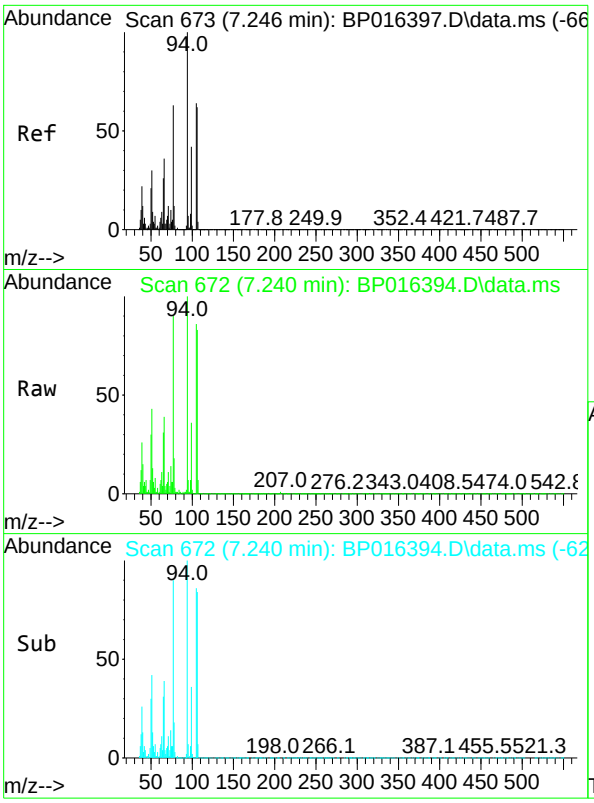


#8
2-Chlorophenol
Concen: 5.134 ng
RT: 7.640 min Scan# 740
Delta R.T. -0.006 min
Lab File: BP016394.D
Acq: 27 Jul 2023 11:37

Tgt Ion:128 Resp: 125576

Ion	Ratio	Lower	Upper
128	100		
130	32.3	11.6	51.6
64	44.5	20.6	60.6

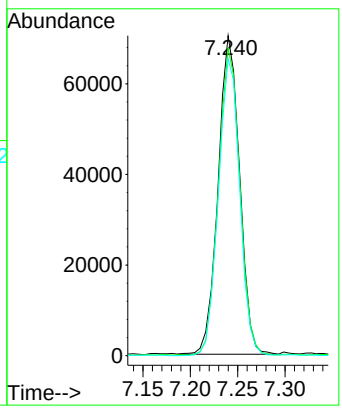




#9
Benzaldehyde
Concen: 3.740 ng
RT: 7.240 min Scan# 6
Delta R.T. -0.006 min
Lab File: BP016394.D
Acq: 27 Jul 2023 11:37

Tgt Ion: 77 Resp: 11090

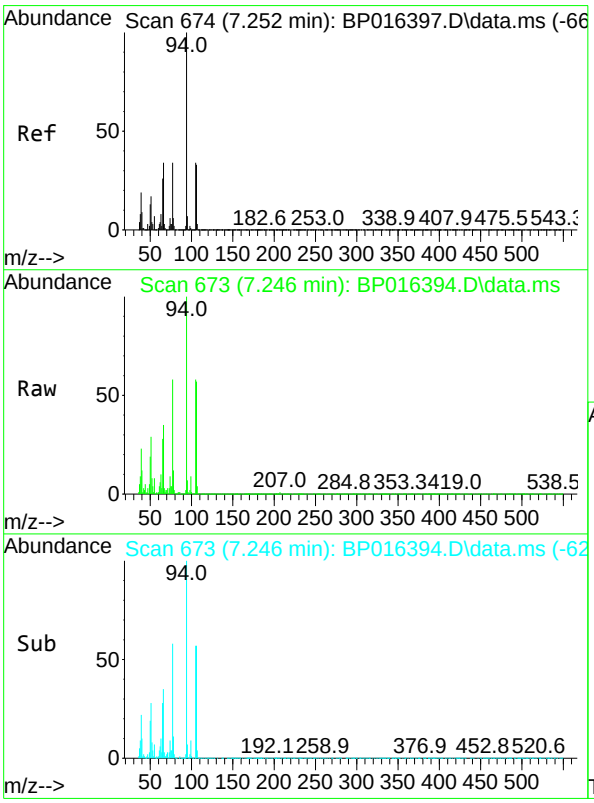
Ion	Ratio	Lower	Upper
77	100		
105	96.0	81.9	121.9
106	92.8	78.8	118.8



Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

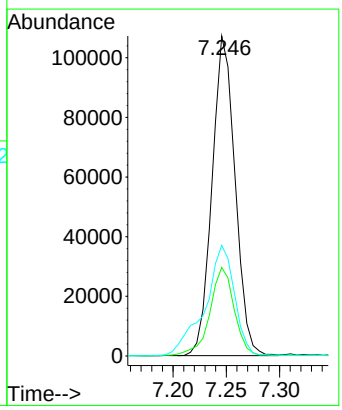
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

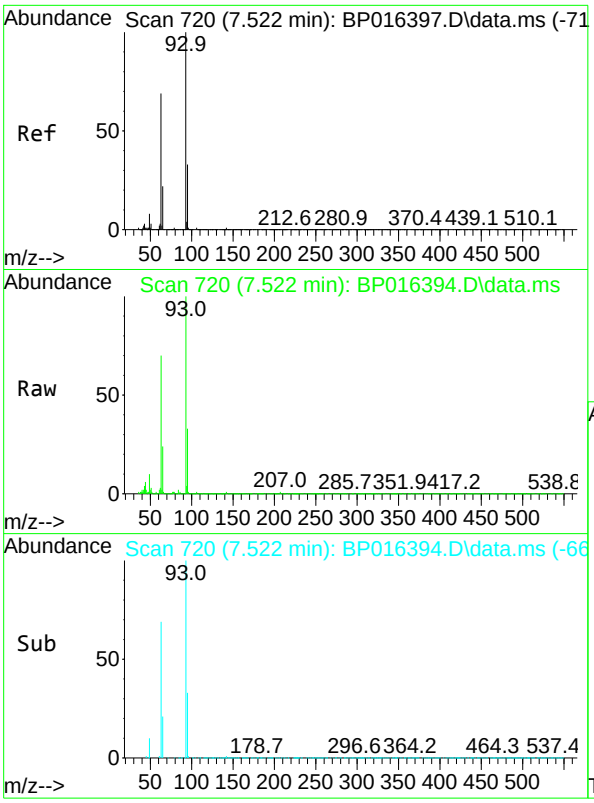


#10
Phenol
Concen: 5.195 ng
RT: 7.246 min Scan# 673
Delta R.T. -0.006 min
Lab File: BP016394.D
Acq: 27 Jul 2023 11:37

Tgt Ion: 94 Resp: 161333

Ion	Ratio	Lower	Upper
94	100		
65	27.7	5.9	45.9
66	34.6	14.3	54.3

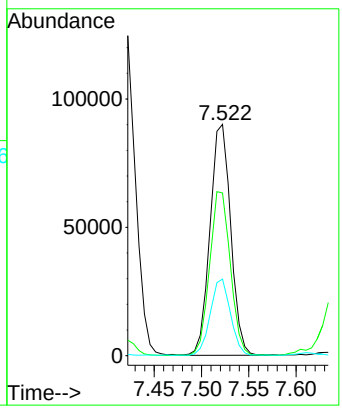




#11
bis(2-Chloroethyl)ether
Concen: 5.413 ng
RT: 7.522 min Scan# 7
Delta R.T. -0.000 min
Lab File: BP016394.D
Acq: 27 Jul 2023 11:37

Tgt Ion: 93 Resp: 13663

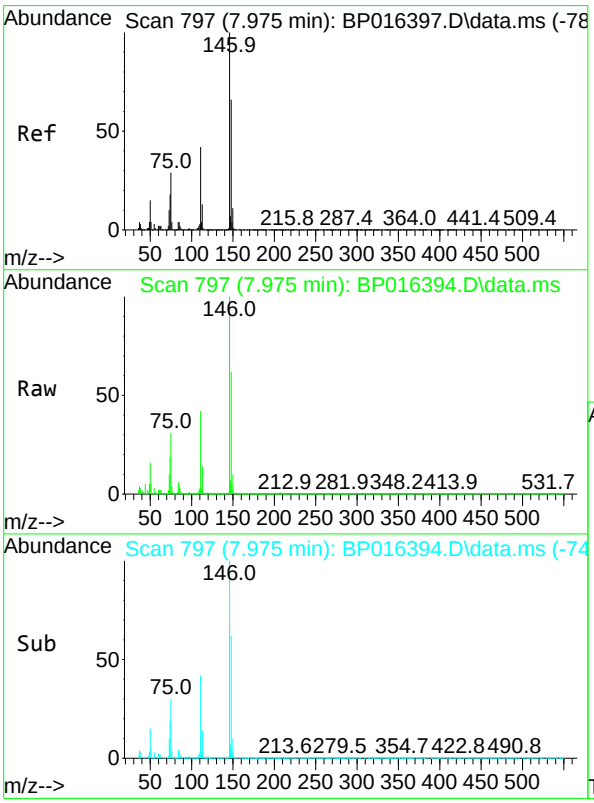
Ion	Ratio	Lower	Upper
93	100		
63	70.4	49.4	89.4
95	33.1	12.9	52.9



Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

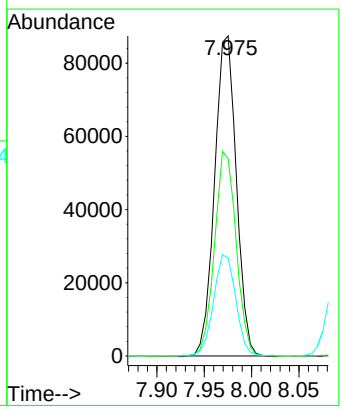
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

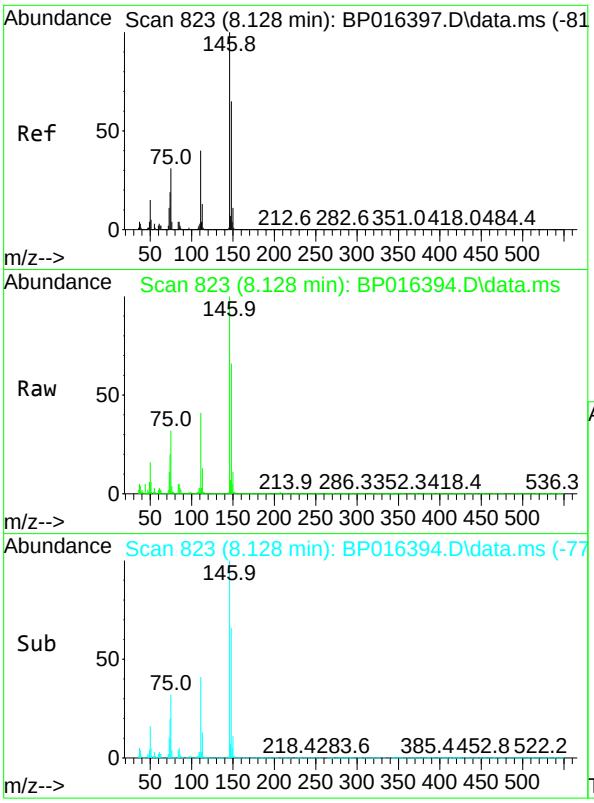


#12
1,3-Dichlorobenzene
Concen: 5.316 ng
RT: 7.975 min Scan# 797
Delta R.T. -0.000 min
Lab File: BP016394.D
Acq: 27 Jul 2023 11:37

Tgt Ion:146 Resp: 139603

Ion	Ratio	Lower	Upper
146	100		
148	61.7	53.0	79.4
75	30.6	23.4	35.2

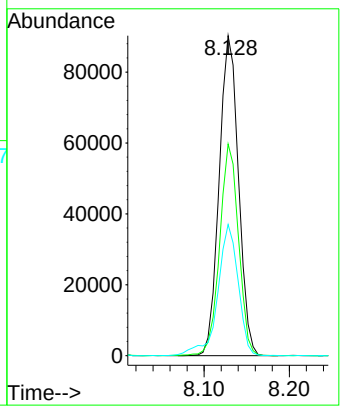




#13
1,4-Dichlorobenzene
Concen: 5.334 ng
RT: 8.128 min Scan# 8
Delta R.T. -0.000 min
Lab File: BP016394.D
Acq: 27 Jul 2023 11:37

Tgt Ion:146 Resp: 14208

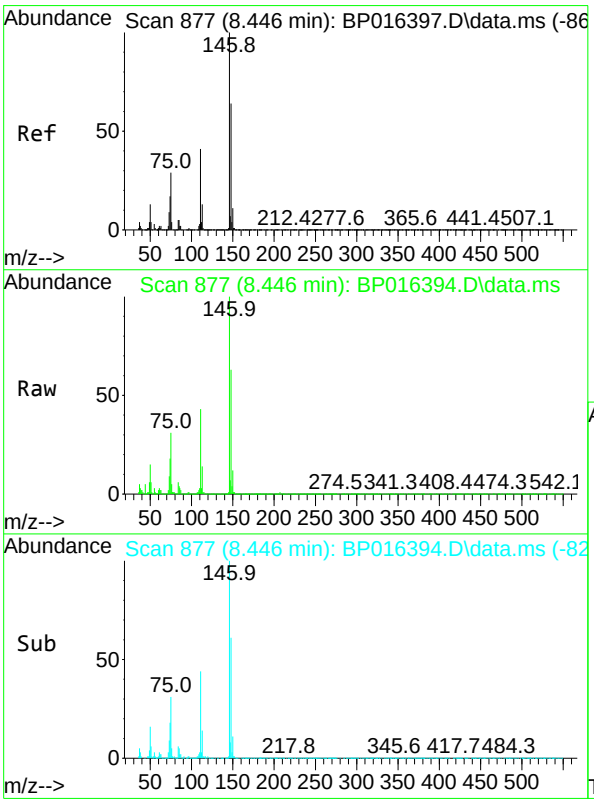
Ion	Ratio	Lower	Upper
146	100		
148	66.1	51.7	77.5
111	41.0	32.0	48.0



Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

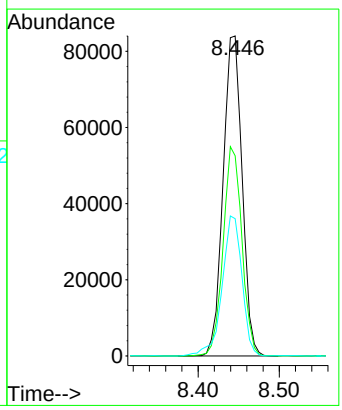
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

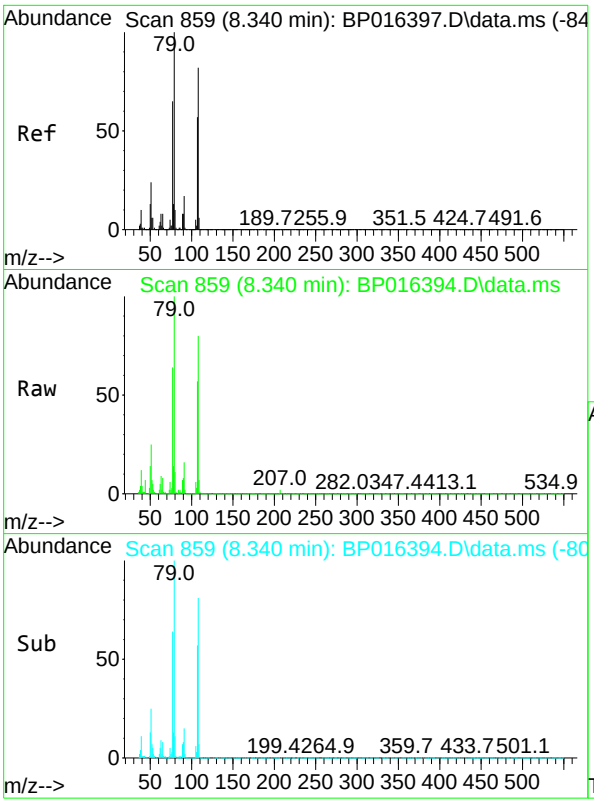


#14
1,2-Dichlorobenzene
Concen: 5.334 ng
RT: 8.446 min Scan# 877
Delta R.T. -0.000 min
Lab File: BP016394.D
Acq: 27 Jul 2023 11:37

Tgt Ion:146 Resp: 136799

Ion	Ratio	Lower	Upper
146	100		
148	62.6	51.0	76.6
111	42.9	32.6	49.0

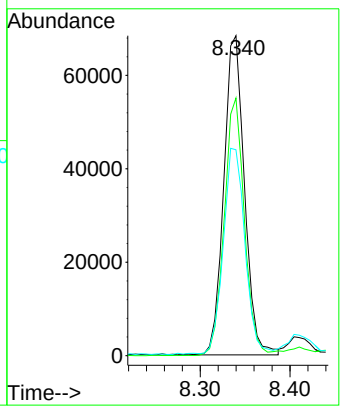




#15
Benzyl Alcohol
Concen: 5.001 ng
RT: 8.340 min Scan# 8
Delta R.T. -0.000 min
Lab File: BP016394.D
Acq: 27 Jul 2023 11:37

Tgt Ion: 79 Resp: 10925

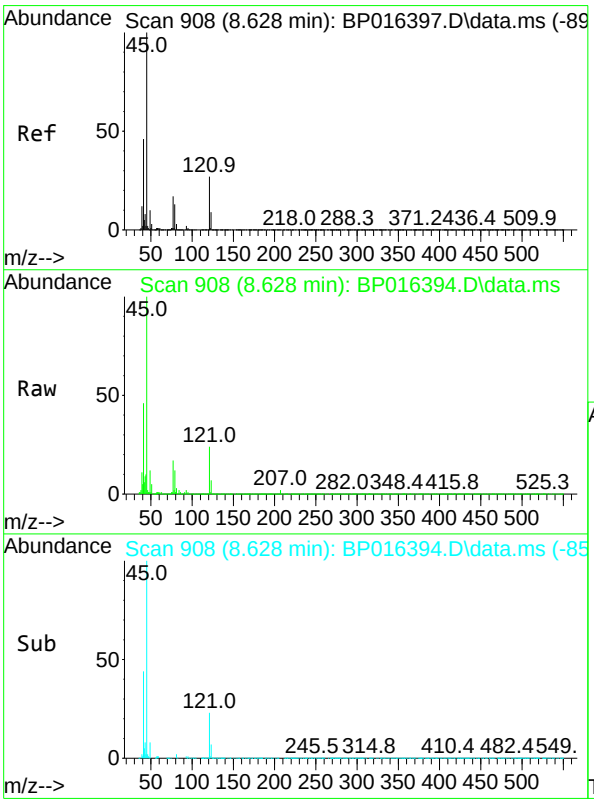
Ion	Ratio	Lower	Upper
79	100		
108	80.5	65.4	98.2
77	64.3	51.8	77.8



Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

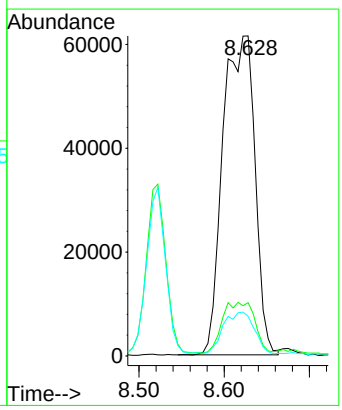
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

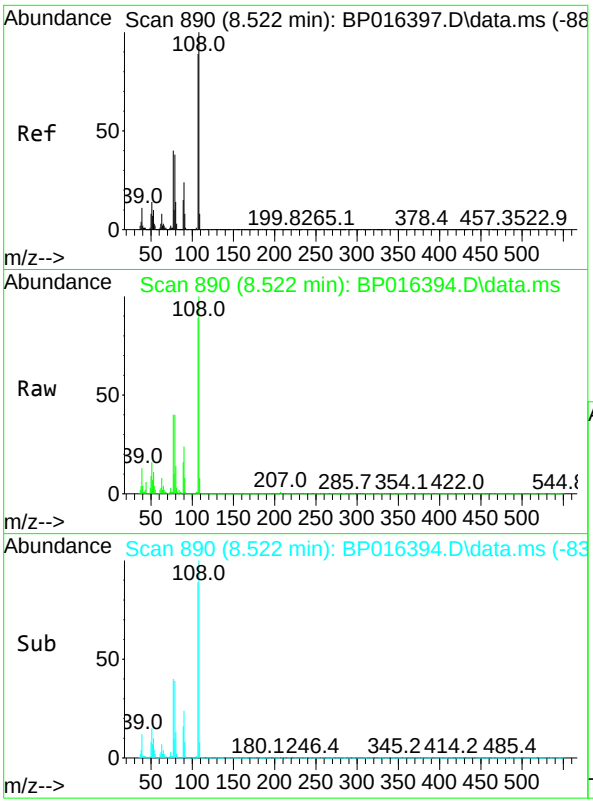


#16
2,2'-oxybis(1-Chloropropane)
Concen: 5.607 ng
RT: 8.628 min Scan# 908
Delta R.T. -0.000 min
Lab File: BP016394.D
Acq: 27 Jul 2023 11:37

Tgt Ion: 45 Resp: 160526

Ion	Ratio	Lower	Upper
45	100		
77	16.7	0.0	37.3
79	12.4	0.0	33.3

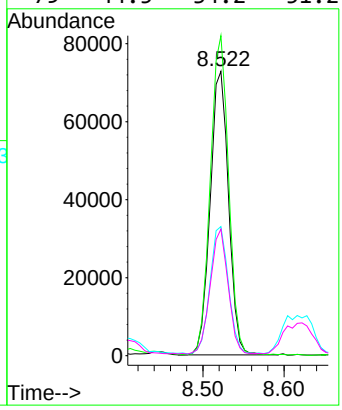




#17
2-Methylphenol
Concen: 5.110 ng
RT: 8.522 min Scan# 8
Delta R.T. -0.000 min
Lab File: BP016394.D
Acq: 27 Jul 2023 11:37

Tgt Ion:107 Resp: 11436

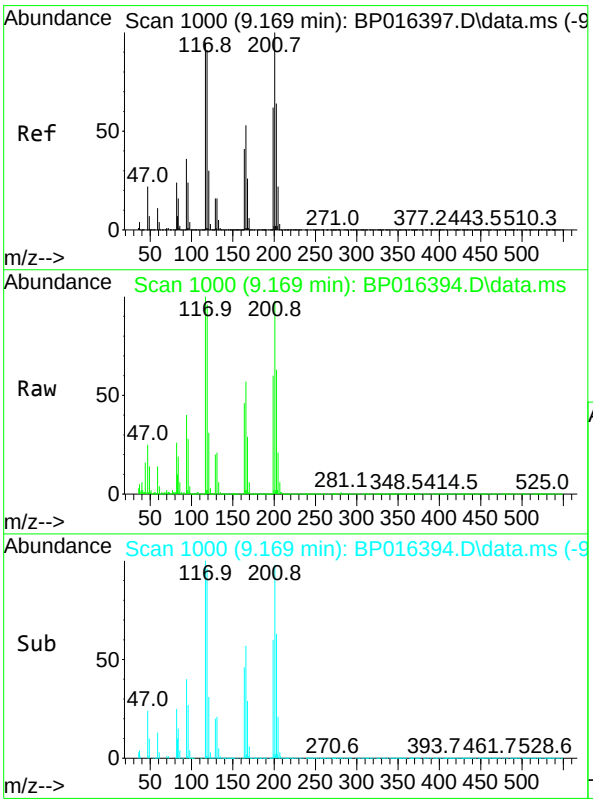
Ion	Ratio	Lower	Upper
107	100		
108	112.5	89.6	134.4
77	45.4	35.6	53.4
79	44.5	34.2	51.2



Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

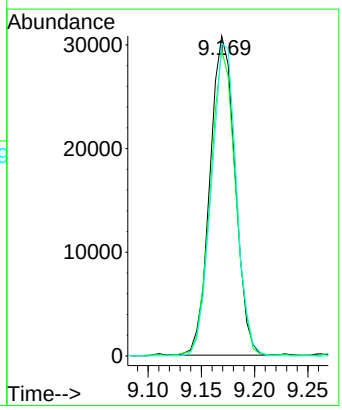
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

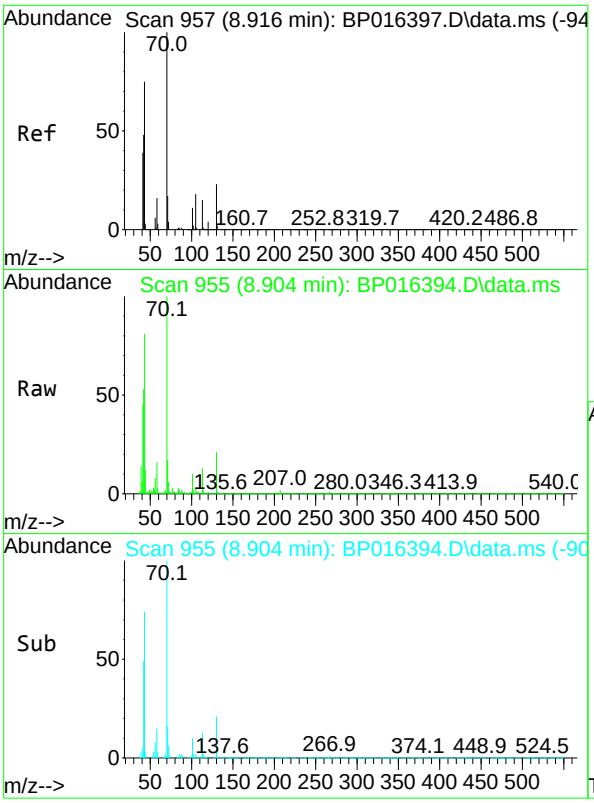


#18
Hexachloroethane
Concen: 5.306 ng
RT: 9.169 min Scan# 1000
Delta R.T. -0.000 min
Lab File: BP016394.D
Acq: 27 Jul 2023 11:37

Tgt Ion:117 Resp: 50417

Ion	Ratio	Lower	Upper
117	100		
119	95.6	76.9	115.3
201	97.6	86.2	129.4

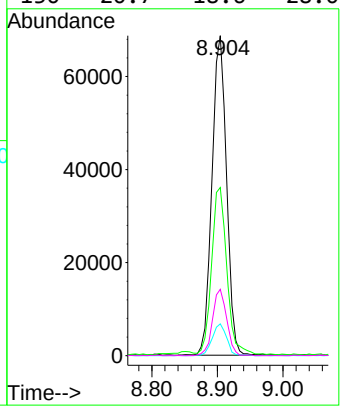




#19
n-Nitroso-di-n-propylamine
Concen: 5.290 ng
RT: 8.904 min Scan# 9
Delta R.T. -0.012 min
Lab File: BP016394.D
Acq: 27 Jul 2023 11:37

Tgt Ion: 70 Resp: 10597

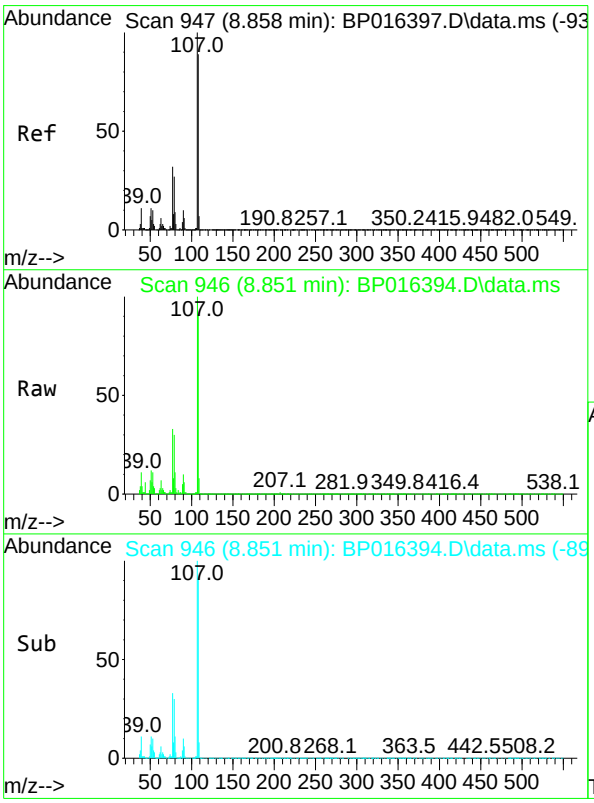
Ion	Ratio	Lower	Upper
70	100		
42	52.5	39.3	58.9
101	10.0	8.6	12.8
130	20.7	18.6	28.0



Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

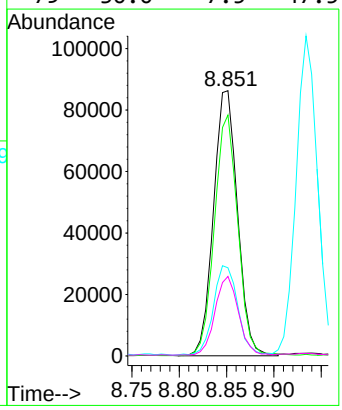
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

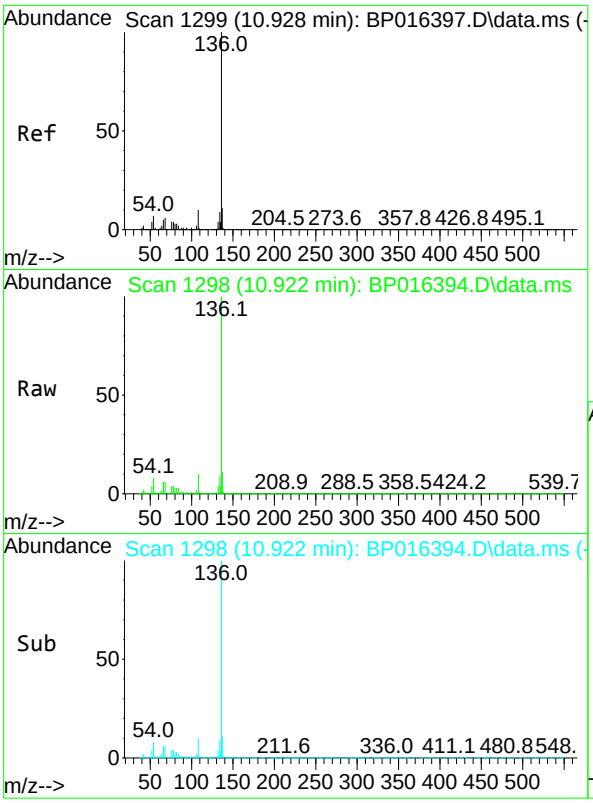


#20
3+4-Methylphenols
Concen: 5.021 ng
RT: 8.851 min Scan# 946
Delta R.T. -0.006 min
Lab File: BP016394.D
Acq: 27 Jul 2023 11:37

Tgt Ion:107 Resp: 152623

Ion	Ratio	Lower	Upper
107	100		
108	90.8	69.1	109.1
77	33.3	12.0	52.0
79	30.0	7.5	47.5

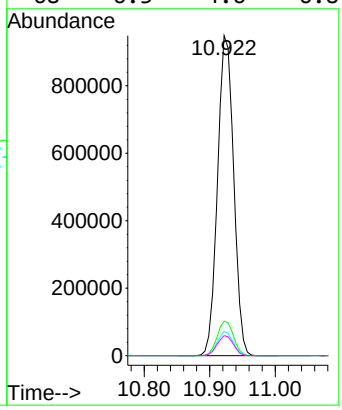




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.922 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP016394.D
Acq: 27 Jul 2023 11:37

Tgt Ion:136 Resp: 161328

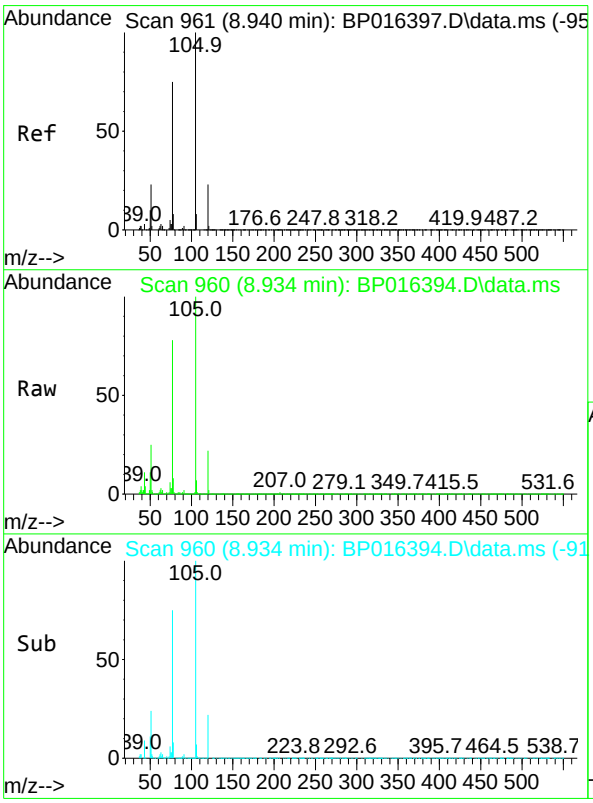
Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.6	13.0
54	7.6	5.6	8.4
68	6.3	4.6	6.8



Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

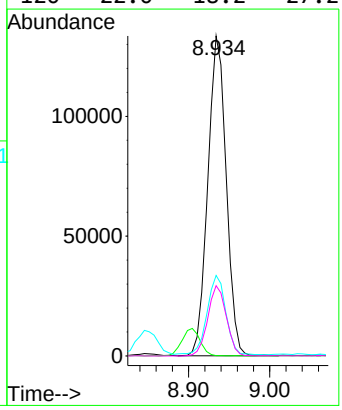
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

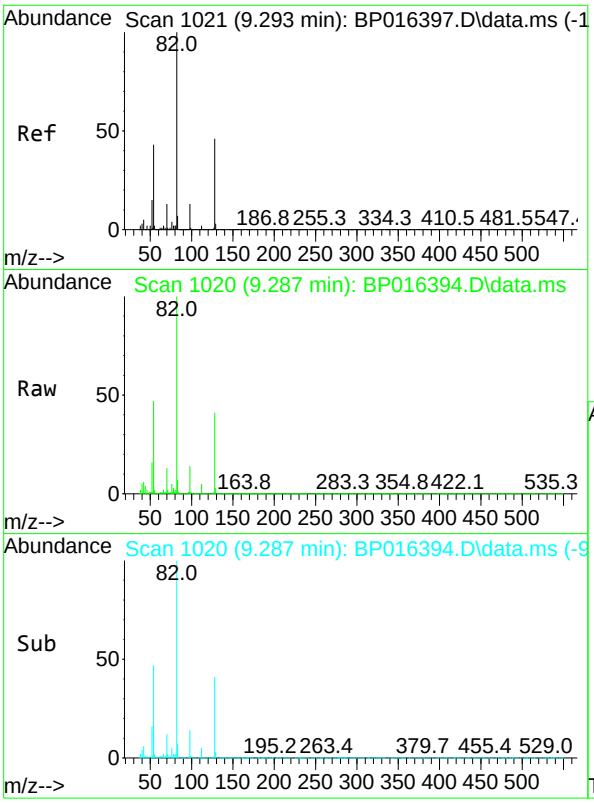


#22
Acetophenone
Concen: 5.159 ng
RT: 8.934 min Scan# 960
Delta R.T. -0.006 min
Lab File: BP016394.D
Acq: 27 Jul 2023 11:37

Tgt Ion:105 Resp: 210151

Ion	Ratio	Lower	Upper
105	100		
71	0.1	0.2	0.2#
51	25.2	18.3	27.5
120	22.0	18.2	27.2

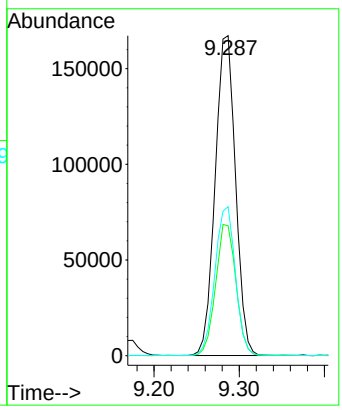




#23
Nitrobenzene-d5
Concen: 9.652 ng
RT: 9.287 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP016394.D
Acq: 27 Jul 2023 11:37

Tgt Ion: 82 Resp: 27817

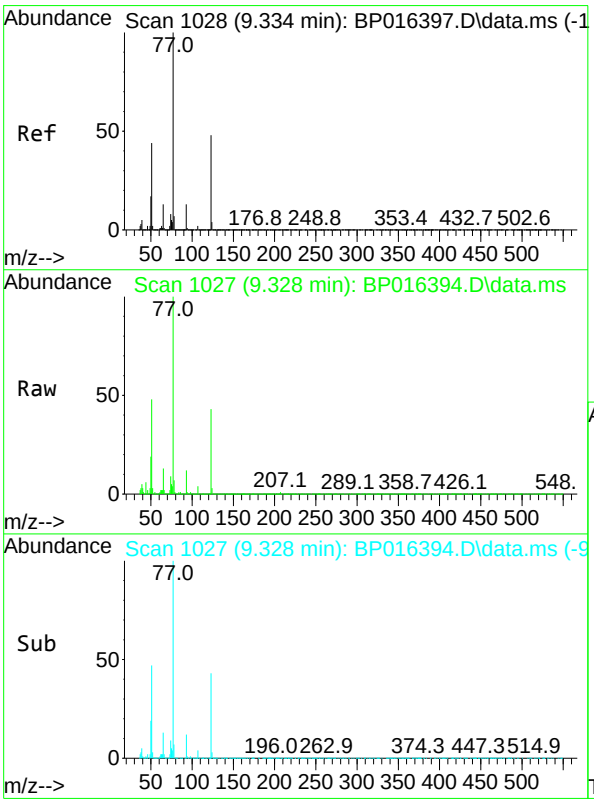
Ion	Ratio	Lower	Upper
82	100		
128	40.6	36.6	55.0
54	46.6	34.5	51.7



Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

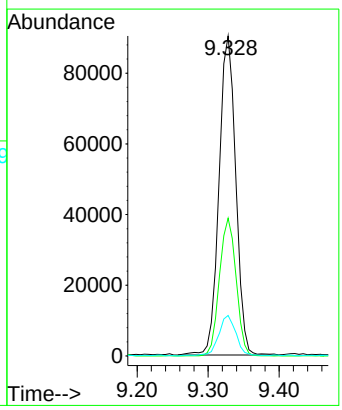
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

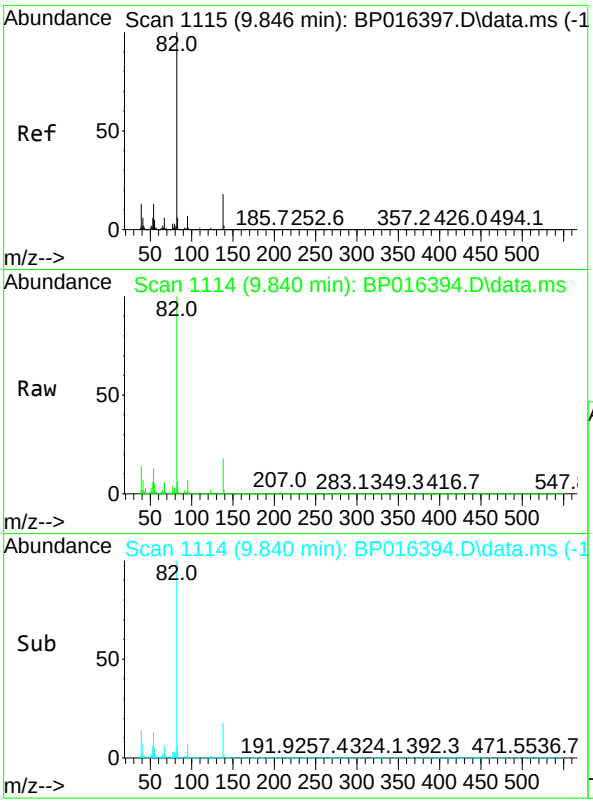


#24
Nitrobenzene
Concen: 4.983 ng
RT: 9.328 min Scan# 1027
Delta R.T. -0.006 min
Lab File: BP016394.D
Acq: 27 Jul 2023 11:37

Tgt Ion: 77 Resp: 147501

Ion	Ratio	Lower	Upper
77	100		
123	43.1	38.6	58.0
65	12.7	10.5	15.7

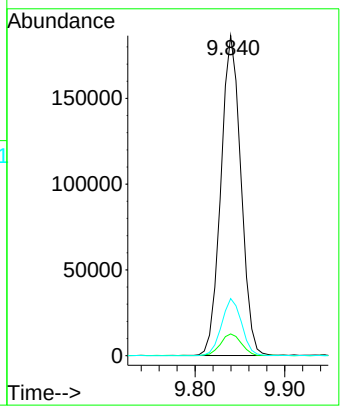




#25
Isophorone
Concen: 4.973 ng
RT: 9.840 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP016394.D
Acq: 27 Jul 2023 11:37

Tgt Ion: 82 Resp: 28934

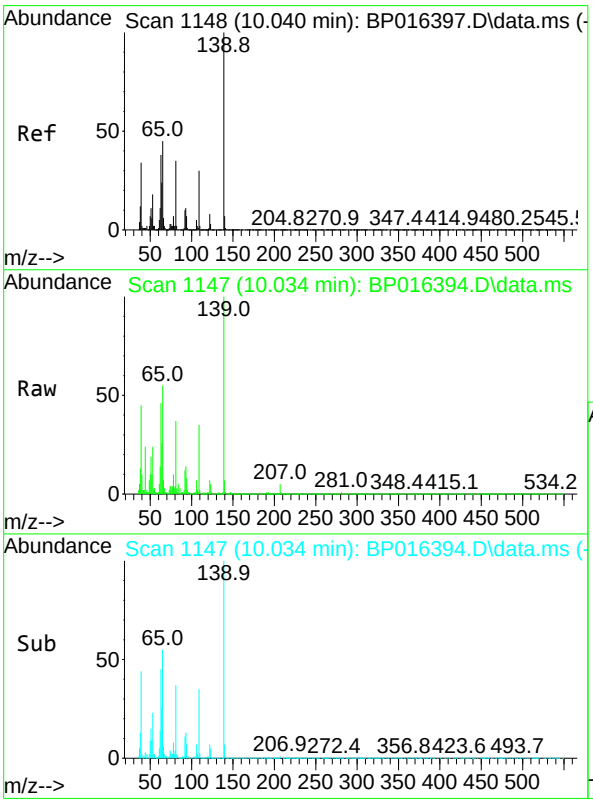
Ion	Ratio	Lower	Upper
82	100		
95	6.8	5.7	8.5
138	17.8	14.6	22.0



Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

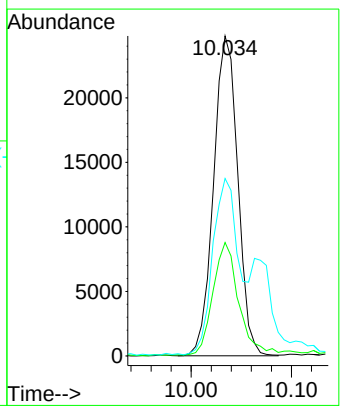
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

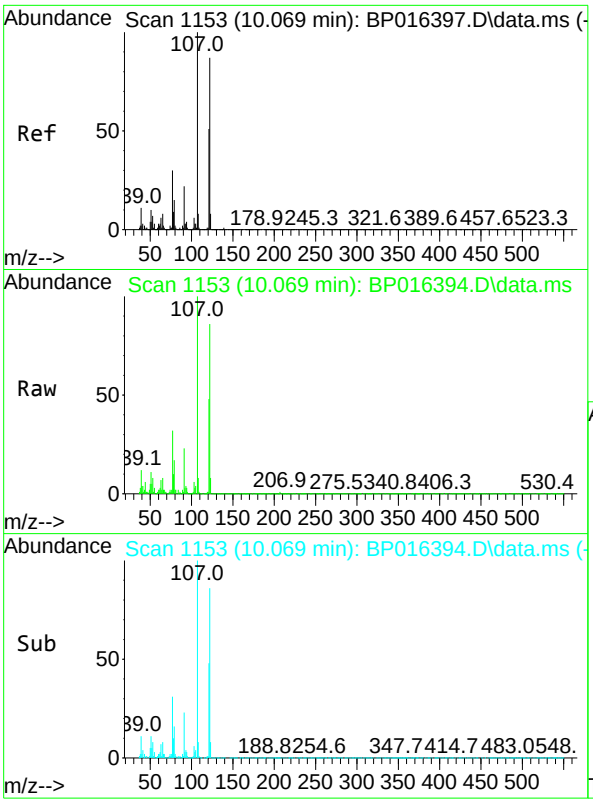


#26
2-Nitrophenol
Concen: 6.169 ng
RT: 10.034 min Scan# 1147
Delta R.T. -0.006 min
Lab File: BP016394.D
Acq: 27 Jul 2023 11:37

Tgt Ion:139 Resp: 41534

Ion	Ratio	Lower	Upper
139	100		
109	35.4	24.2	36.4
65	55.4	35.8	53.6#

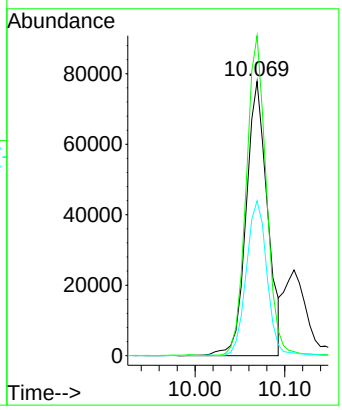




#27
2,4-Dimethylphenol
Concen: 4.933 ng
RT: 10.069 min Scan# 11
Delta R.T. -0.000 min
Lab File: BP016394.D
Acq: 27 Jul 2023 11:37

Tgt Ion:122 Resp: 12840

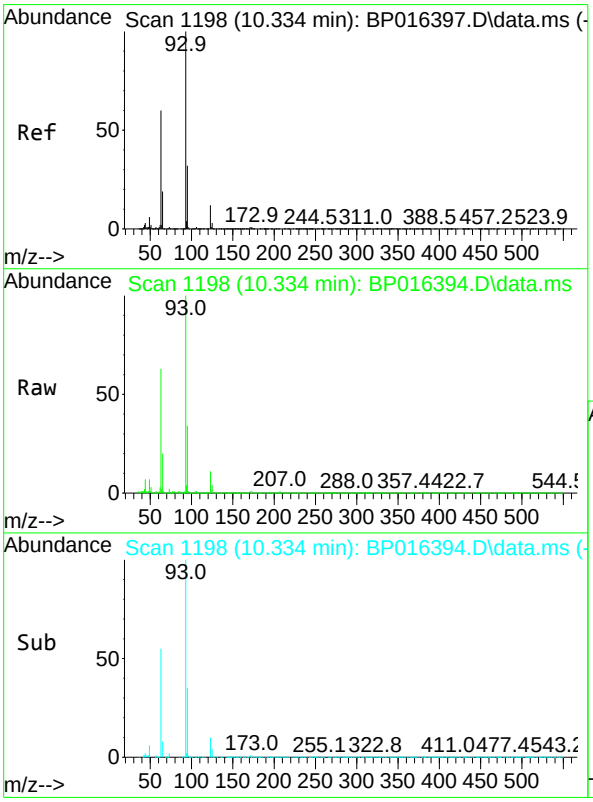
Ion	Ratio	Lower	Upper
122	100		
107	116.7	91.9	137.9
121	56.4	47.2	70.8



Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

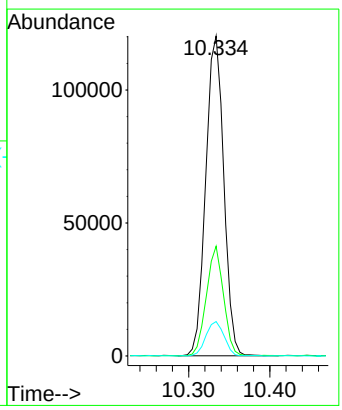
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

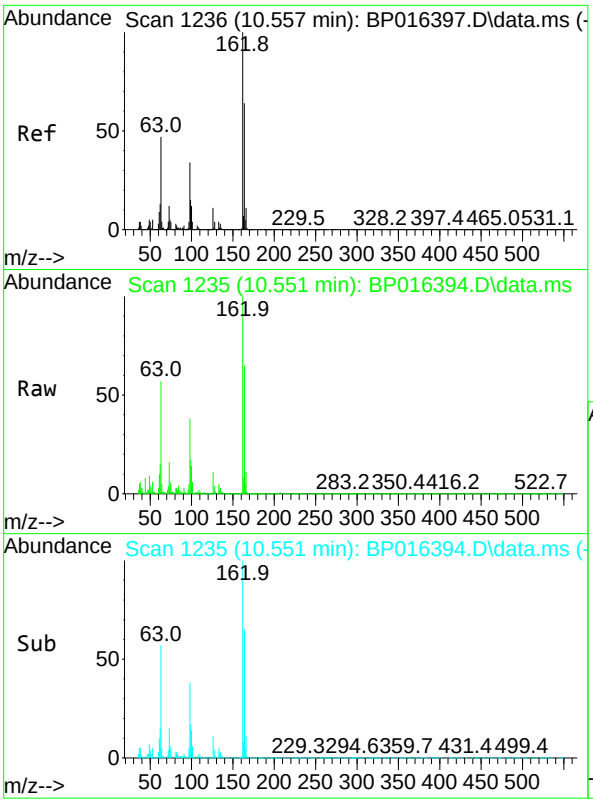


#28
bis(2-Chloroethoxy)methane
Concen: 5.190 ng
RT: 10.334 min Scan# 1198
Delta R.T. -0.000 min
Lab File: BP016394.D
Acq: 27 Jul 2023 11:37

Tgt Ion: 93 Resp: 184960

Ion	Ratio	Lower	Upper
93	100		
95	34.3	25.8	38.8
123	10.8	9.4	14.0

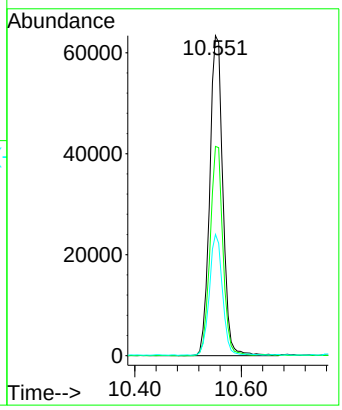




#29
2,4-Dichlorophenol
Concen: 4.448 ng
RT: 10.551 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP016394.D
Acq: 27 Jul 2023 11:37

Tgt Ion:162 Resp: 10836

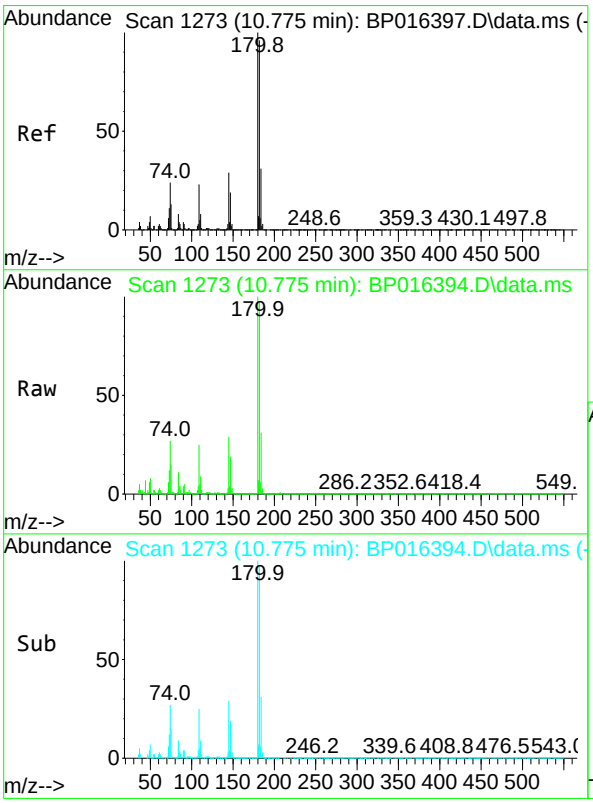
Ion	Ratio	Lower	Upper
162	100		
164	65.4	44.2	84.2
98	37.9	13.7	53.7



Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

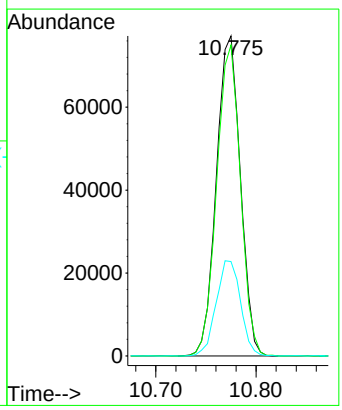
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

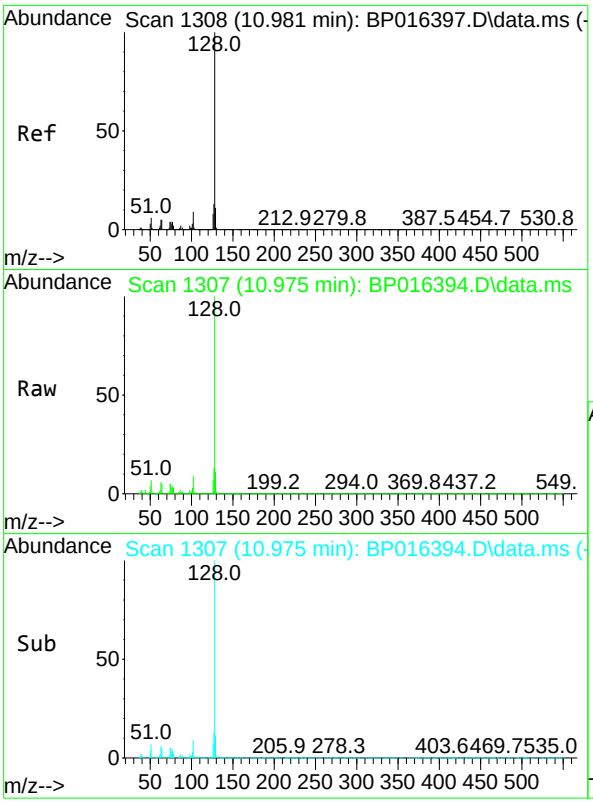


#30
1,2,4-Trichlorobenzene
Concen: 4.858 ng
RT: 10.775 min Scan# 1273
Delta R.T. -0.000 min
Lab File: BP016394.D
Acq: 27 Jul 2023 11:37

Tgt Ion:180 Resp: 128190

Ion	Ratio	Lower	Upper
180	100		
182	97.2	77.1	115.7
145	29.5	22.9	34.3

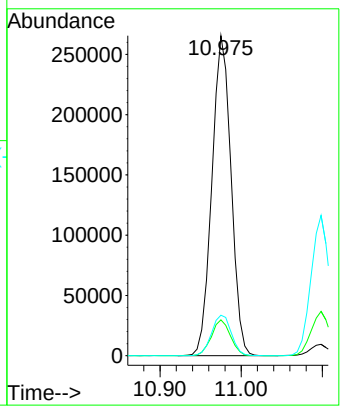




#31
Naphthalene
Concen: 5.155 ng
RT: 10.975 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP016394.D
Acq: 27 Jul 2023 11:37

Tgt Ion:128 Resp: 43499

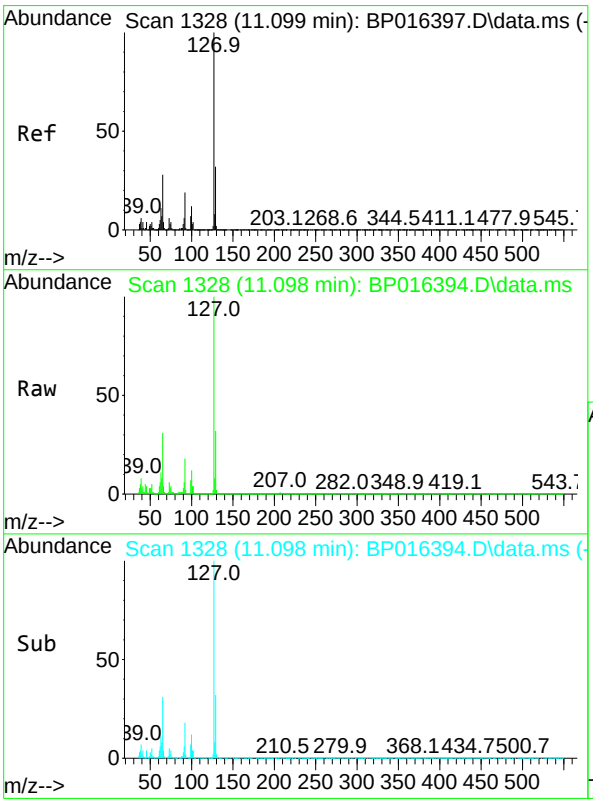
Ion	Ratio	Lower	Upper
128	100		
129	11.2	8.6	12.8
127	12.7	10.4	15.6



Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

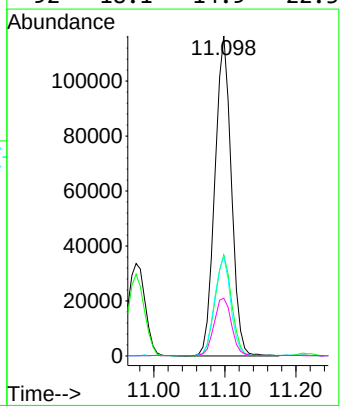
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

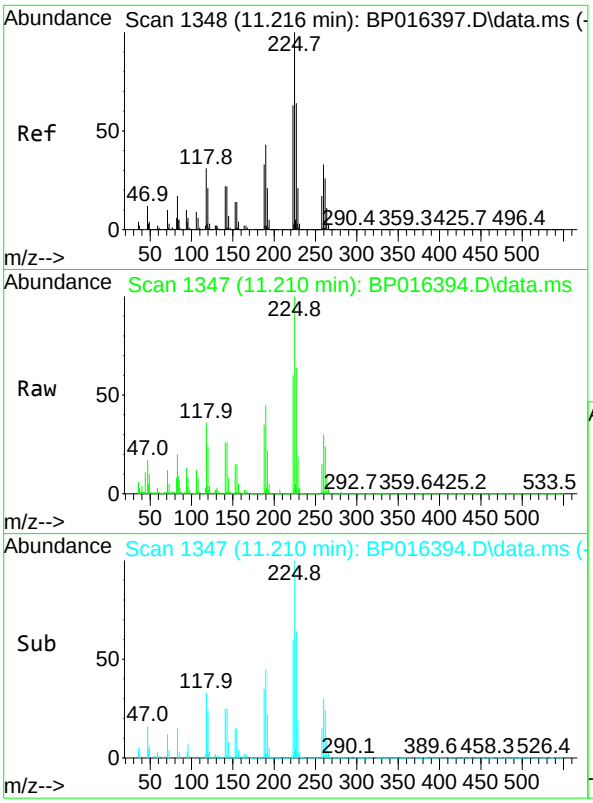


#33
4-Chloroaniline
Concen: 4.901 ng
RT: 11.098 min Scan# 1328
Delta R.T. -0.000 min
Lab File: BP016394.D
Acq: 27 Jul 2023 11:37

Tgt Ion:127 Resp: 186559

Ion	Ratio	Lower	Upper
127	100		
129	31.6	25.8	38.8
65	31.1	22.7	34.1
92	18.1	14.9	22.3

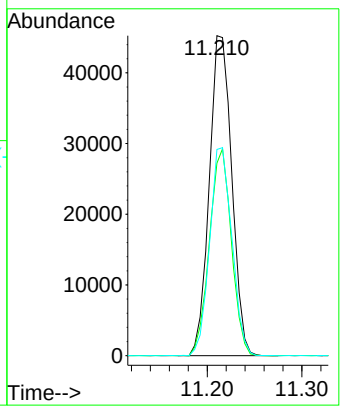




#34
Hexachlorobutadiene
Concen: 4.765 ng
RT: 11.210 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP016394.D
Acq: 27 Jul 2023 11:37

Tgt Ion:225 Resp: 7443

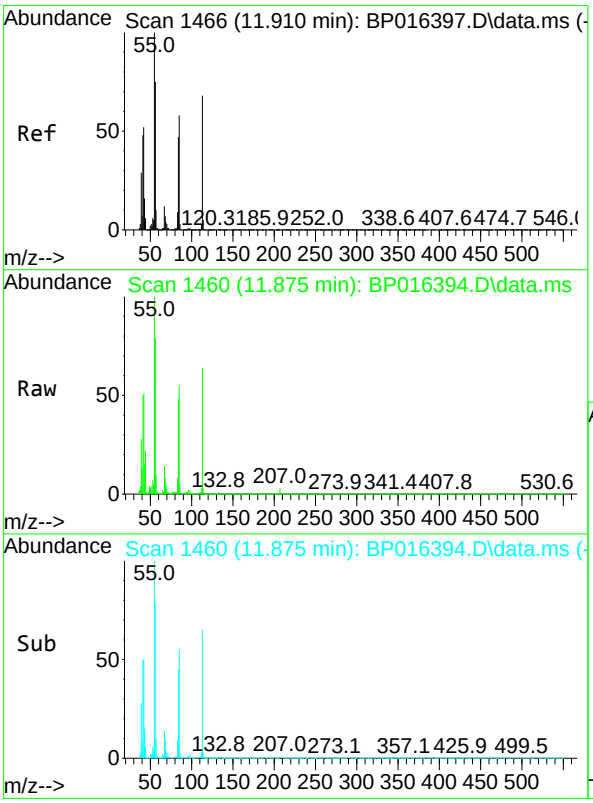
Ion	Ratio	Lower	Upper
225	100		
223	60.1	50.2	75.4
227	64.5	51.0	76.6



Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

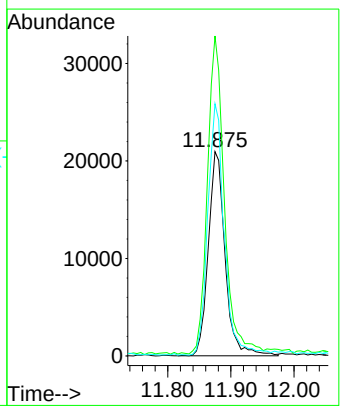
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

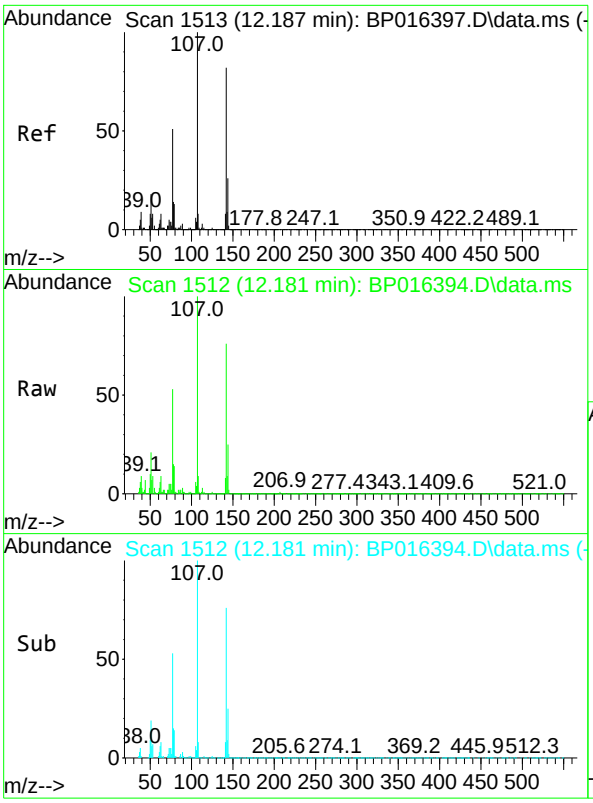


#35
Caprolactam
Concen: 4.345 ng
RT: 11.875 min Scan# 1460
Delta R.T. -0.035 min
Lab File: BP016394.D
Acq: 27 Jul 2023 11:37

Tgt Ion:113 Resp: 38690

Ion	Ratio	Lower	Upper
113	100		
55	156.6	128.0	168.0
56	123.4	91.3	131.3





#36
4-Chloro-3-methylphenol
Concen: 4.655 ng
RT: 12.181 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP016394.D
Acq: 27 Jul 2023 11:37

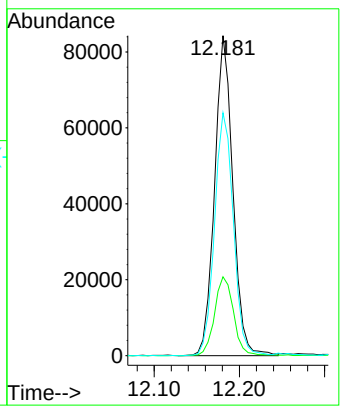
Tgt Ion:107 Resp: 12605

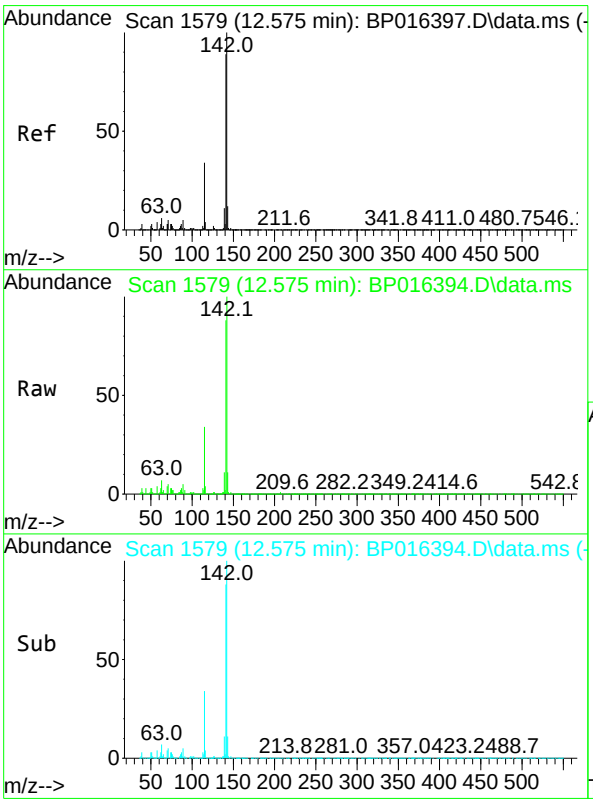
Ion	Ratio	Lower	Upper
107	100		
144	24.7	21.0	31.6
142	75.9	65.6	98.4

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

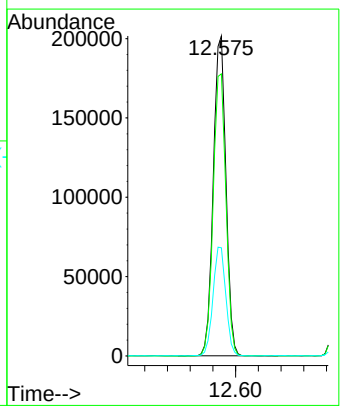


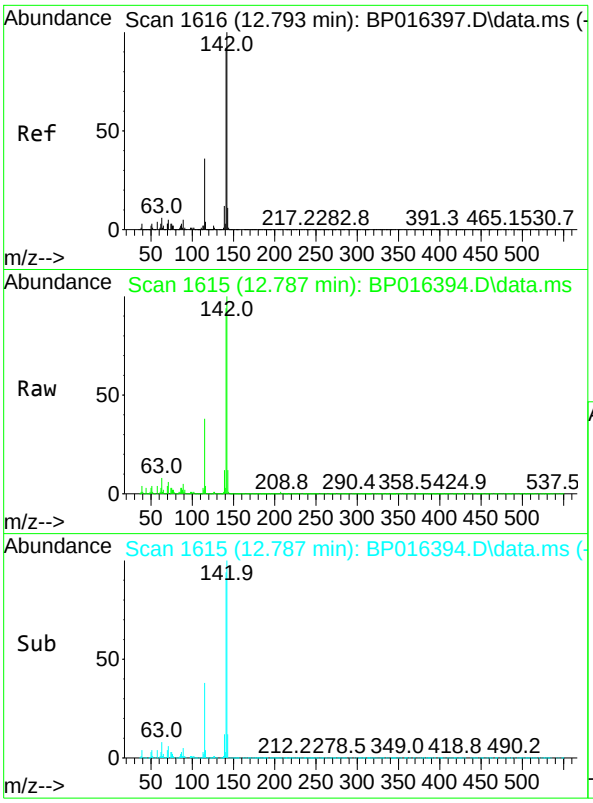


#37
2-Methylnaphthalene
Concen: 5.053 ng
RT: 12.575 min Scan# 1579
Delta R.T. -0.000 min
Lab File: BP016394.D
Acq: 27 Jul 2023 11:37

Tgt Ion:142 Resp: 309790

Ion	Ratio	Lower	Upper
142	100		
141	88.1	71.4	107.2
115	33.8	27.0	40.4

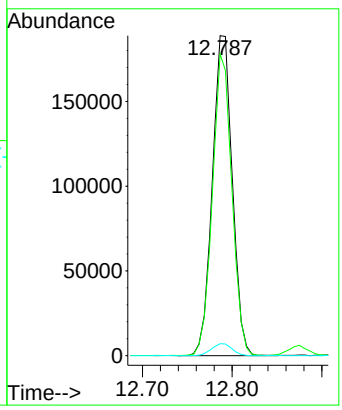




#38
1-Methylnaphthalene
Concen: 5.080 ng
RT: 12.787 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP016394.D
Acq: 27 Jul 2023 11:37

Tgt Ion:142 Resp: 29194

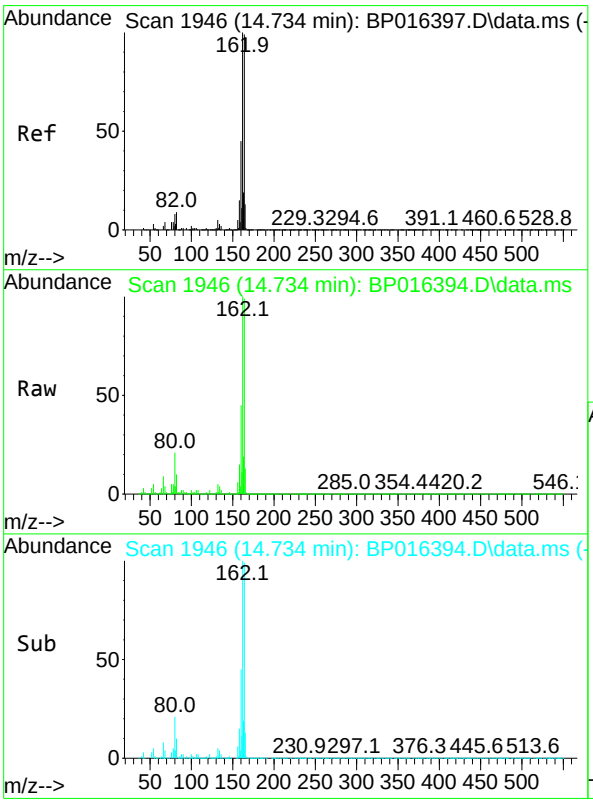
Ion	Ratio	Lower	Upper
142	100		
141	94.3	73.8	110.6
116	3.8	2.9	4.3



Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

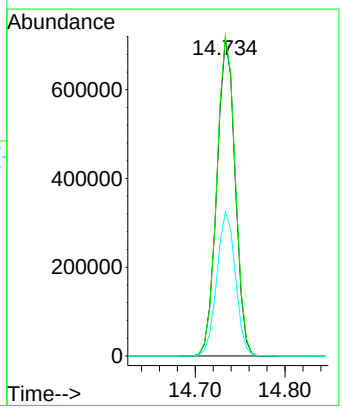
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

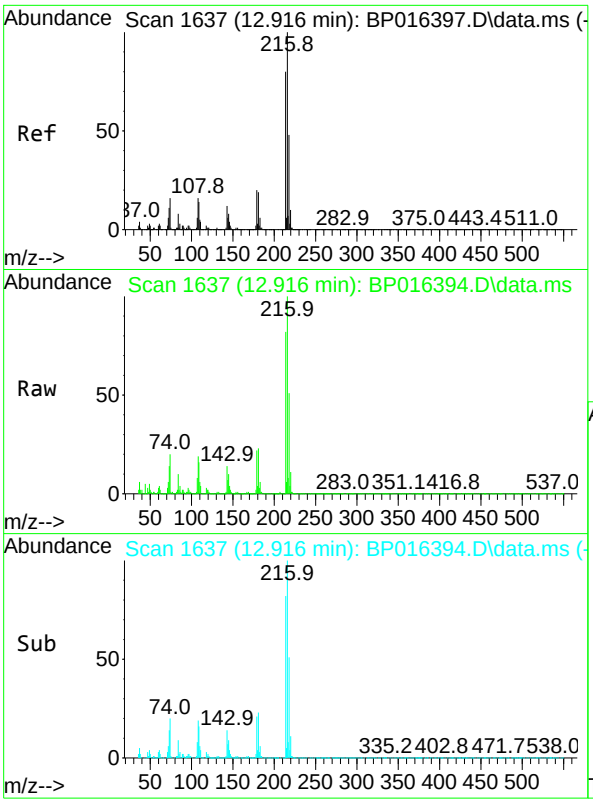


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.734 min Scan# 1946
Delta R.T. -0.000 min
Lab File: BP016394.D
Acq: 27 Jul 2023 11:37

Tgt Ion:164 Resp: 1014199

Ion	Ratio	Lower	Upper
164	100		
162	100.7	81.0	121.6
160	45.3	36.6	55.0

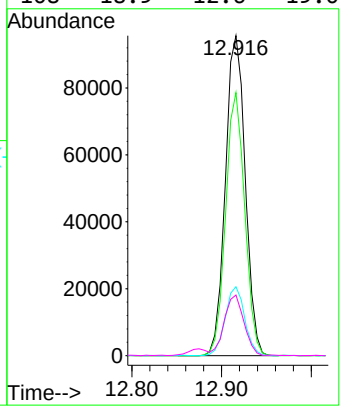




#40
1,2,4,5-Tetrachlorobenzene
Concen: 4.755 ng
RT: 12.916 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP016394.D
Acq: 27 Jul 2023 11:37

Tgt Ion:216 Resp: 14653

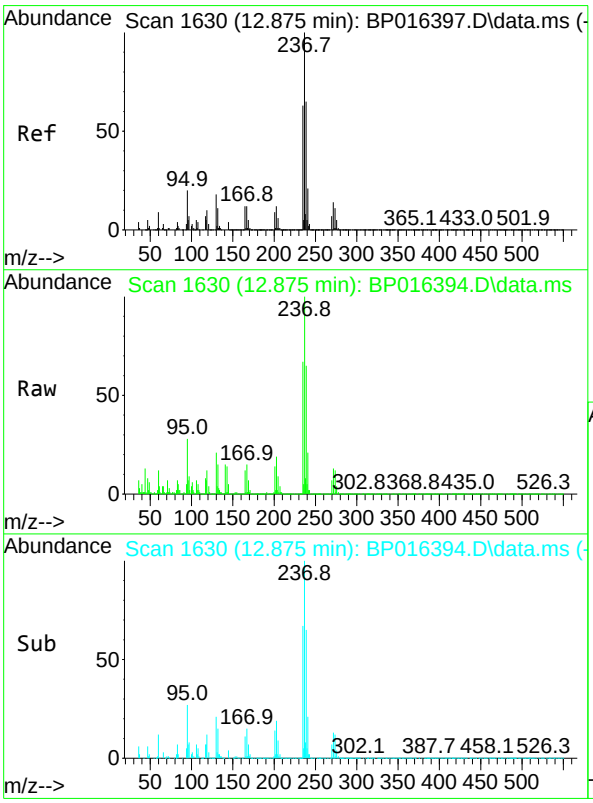
Ion	Ratio	Lower	Upper
216	100		
214	79.1	62.8	94.2
179	21.3	16.0	24.0
108	18.9	12.6	19.0



Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

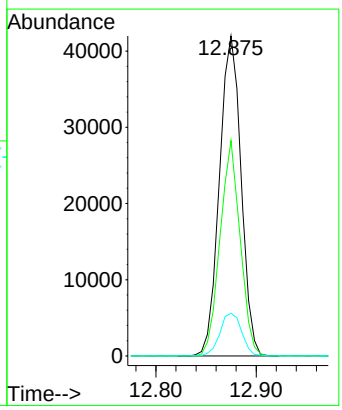
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

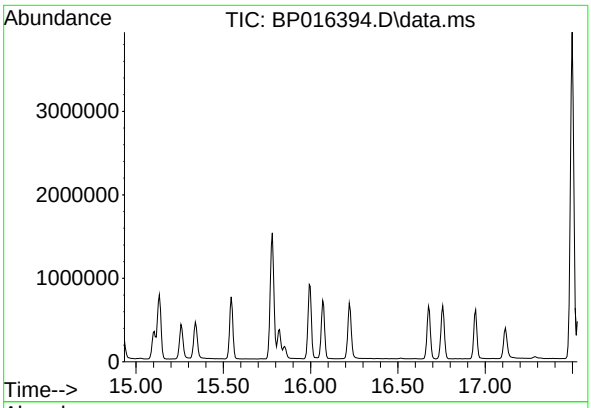


#41
Hexachlorocyclopentadiene
Concen: 4.059 ng
RT: 12.875 min Scan# 1630
Delta R.T. -0.000 min
Lab File: BP016394.D
Acq: 27 Jul 2023 11:37

Tgt Ion:237 Resp: 62826

Ion	Ratio	Lower	Upper
237	100		
235	67.3	42.7	82.7
272	13.4	0.0	33.5





#42
2,4,6-Tribromophenol
Concen: 0.000 ng
Expected RT: 16.23 min

Lab File: BP016394.D
Acq: 27 Jul 2023 11:37

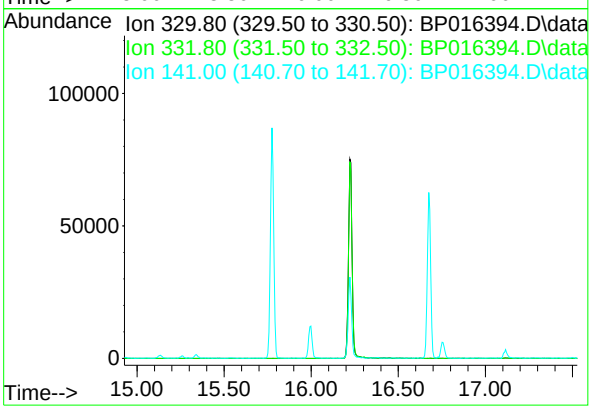
Tgt Ion: 330

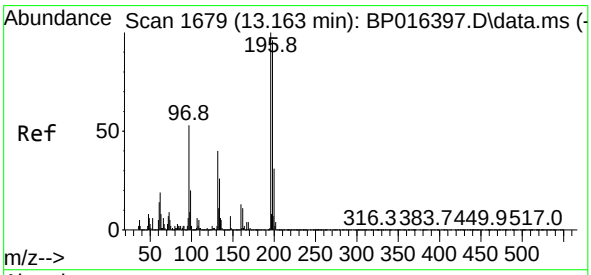
Sig	Exp Ratio
330	100
332	97.3
141	28.3

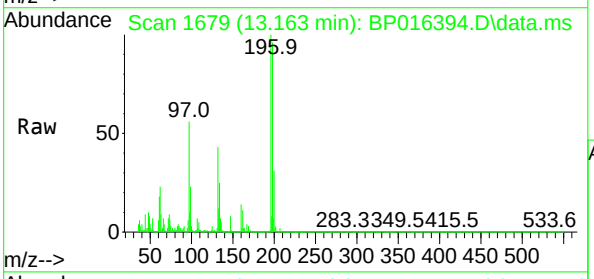
Instrument :
BNA_P
ClientSampleId :
SSTDICC005

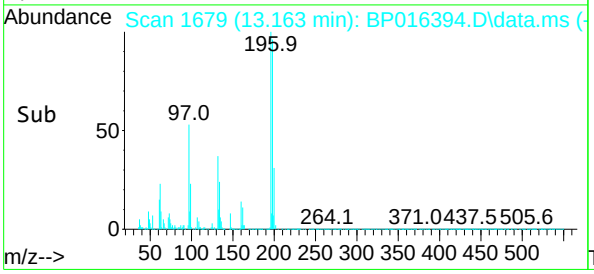
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023





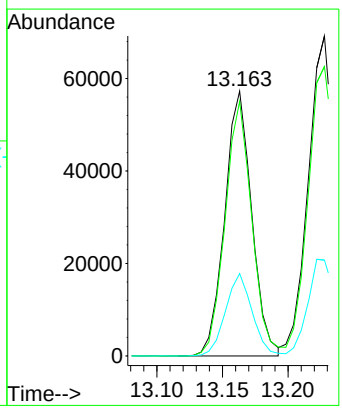


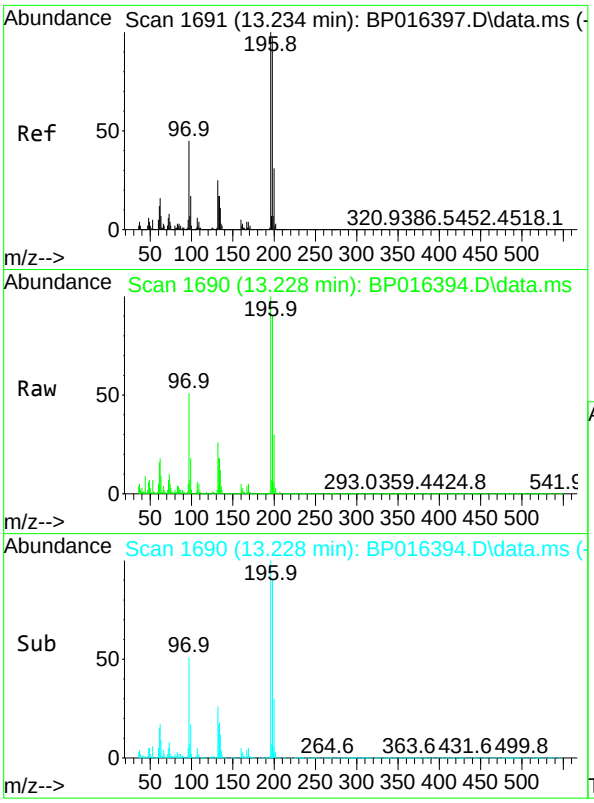


#43
2,4,6-Trichlorophenol
Concen: 4.156 ng
RT: 13.163 min Scan# 1679
Delta R.T. 0.000 min
Lab File: BP016394.D
Acq: 27 Jul 2023 11:37

Tgt Ion:196 Resp: 82195

Ion	Ratio	Lower	Upper
196	100		
198	96.1	77.0	115.4
200	31.1	24.5	36.7

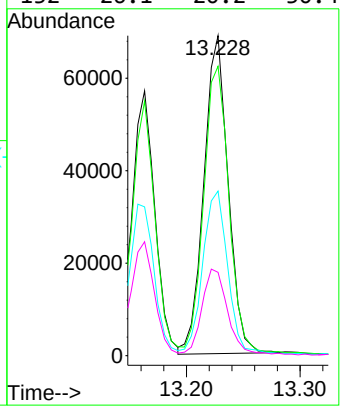




#44
2,4,5-Trichlorophenol
Concen: 4.260 ng
RT: 13.228 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP016394.D
Acq: 27 Jul 2023 11:37

Tgt Ion:196 Resp: 10220

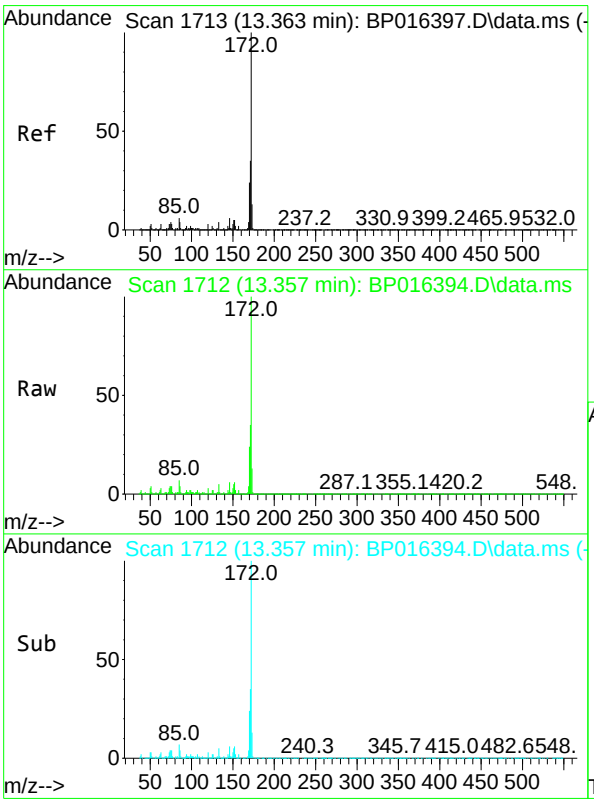
Ion	Ratio	Lower	Upper
196	100		
198	90.5	77.3	115.9
97	51.4	36.2	54.4
132	26.1	20.2	30.4



Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

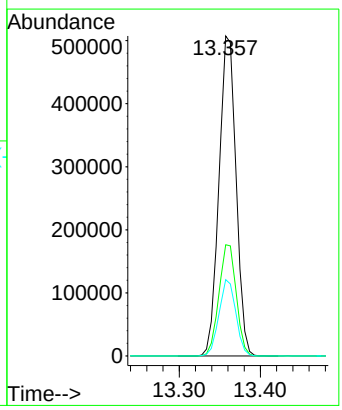
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

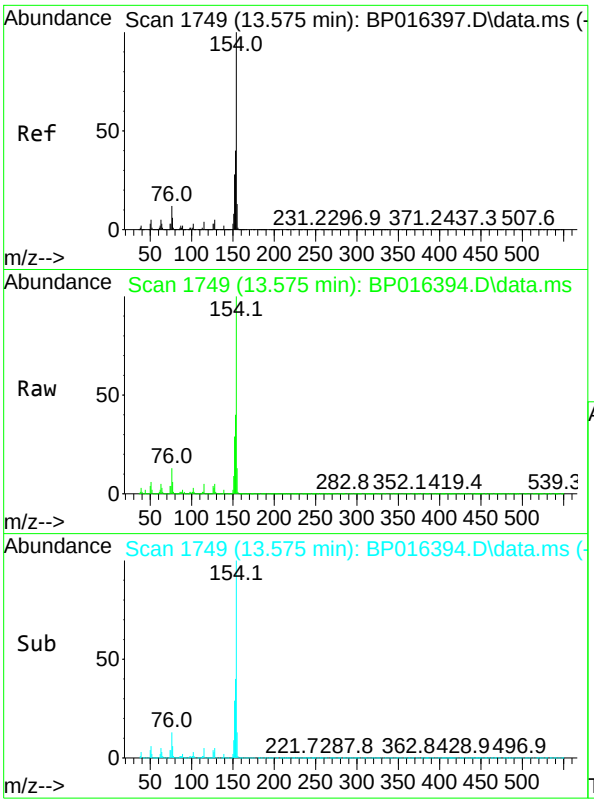


#45
2-Fluorobiphenyl
Concen: 10.501 ng
RT: 13.357 min Scan# 1712
Delta R.T. -0.006 min
Lab File: BP016394.D
Acq: 27 Jul 2023 11:37

Tgt Ion:172 Resp: 742829

Ion	Ratio	Lower	Upper
172	100		
171	34.8	28.2	42.2
170	23.9	19.1	28.7

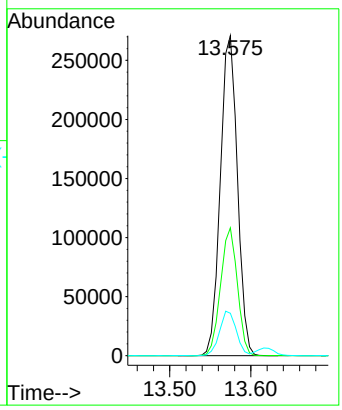




#46
1,1'-Biphenyl
Concen: 5.124 ng
RT: 13.575 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP016394.D
Acq: 27 Jul 2023 11:37

Tgt Ion:154 Resp: 39614

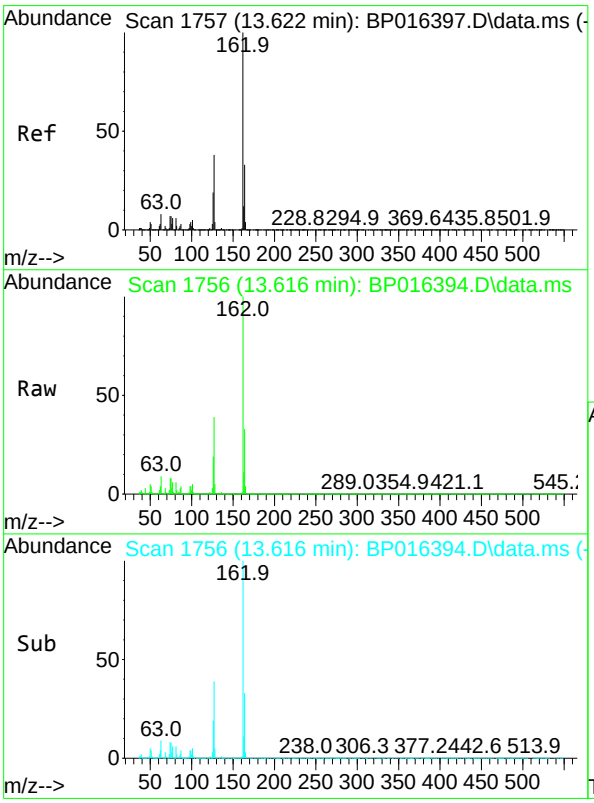
Ion	Ratio	Lower	Upper
154	100		
153	39.9	20.1	60.1
76	13.3	0.0	32.5



Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

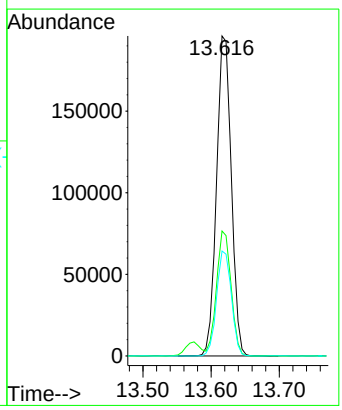
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

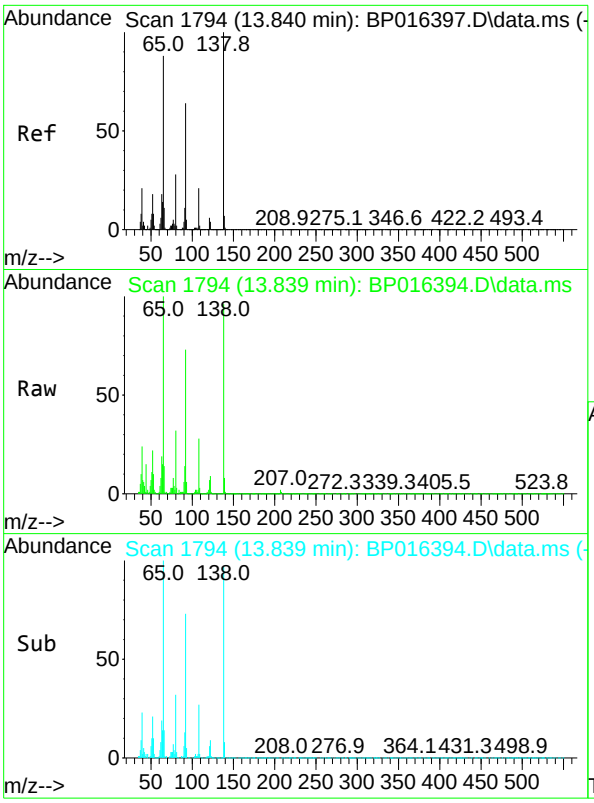


#47
2-Chloronaphthalene
Concen: 5.062 ng
RT: 13.616 min Scan# 1756
Delta R.T. -0.006 min
Lab File: BP016394.D
Acq: 27 Jul 2023 11:37

Tgt Ion:162 Resp: 295265

Ion	Ratio	Lower	Upper
162	100		
127	39.1	30.1	45.1
164	32.8	26.6	39.8

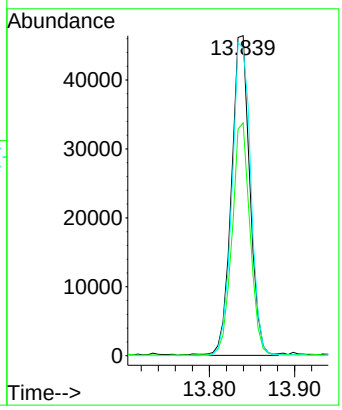




#48
2-Nitroaniline
Concen: 4.241 ng
RT: 13.839 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP016394.D
Acq: 27 Jul 2023 11:37

Tgt Ion: 65 Resp: 6972

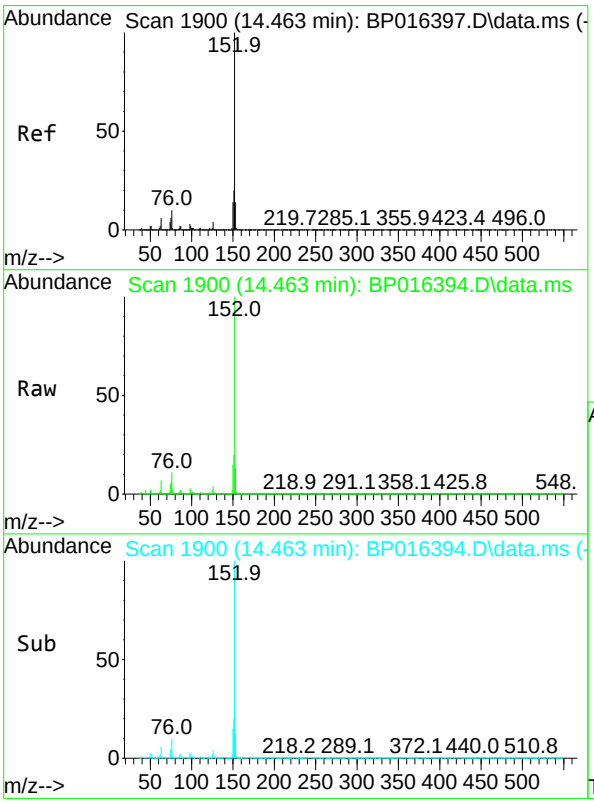
Ion	Ratio	Lower	Upper
65	100		
92	72.8	58.2	87.4
138	96.1	91.3	136.9



Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

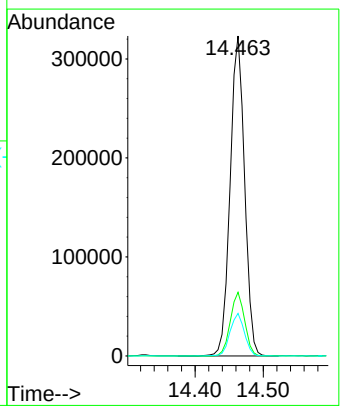
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

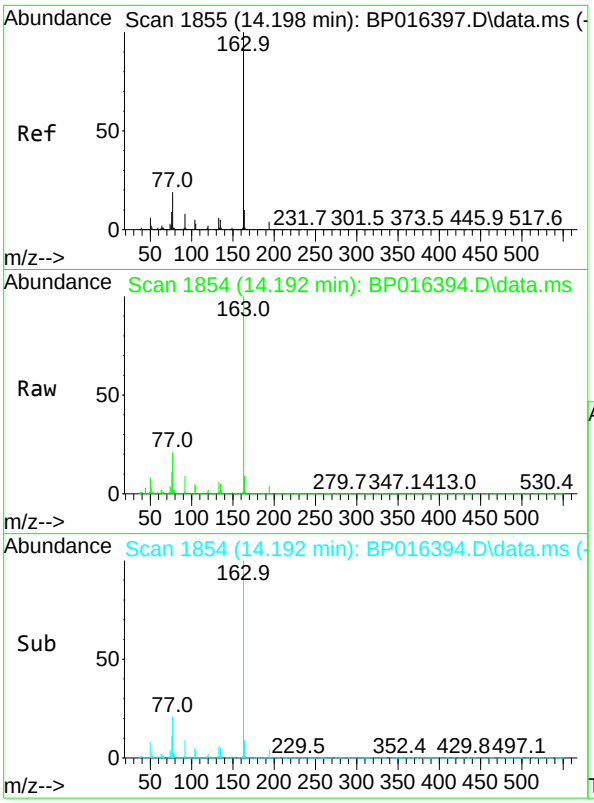


#49
Acenaphthylene
Concen: 4.926 ng
RT: 14.463 min Scan# 1900
Delta R.T. -0.000 min
Lab File: BP016394.D
Acq: 27 Jul 2023 11:37

Tgt Ion:152 Resp: 476729

Ion	Ratio	Lower	Upper
152	100		
151	19.9	16.2	24.4
153	13.3	10.8	16.2

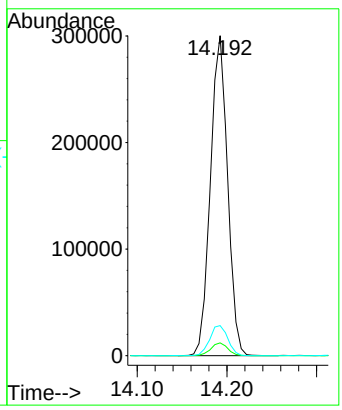




#50
Dimethylphthalate
Concen: 5.051 ng
RT: 14.192 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP016394.D
Acq: 27 Jul 2023 11:37

Tgt Ion:163 Resp: 39918

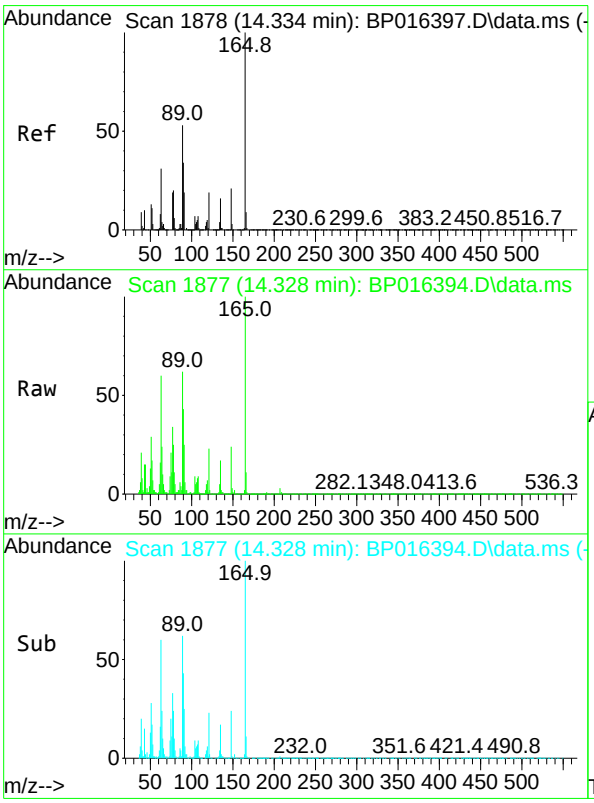
Ion	Ratio	Lower	Upper
163	100		
194	4.0	3.4	5.2
164	9.4	8.2	12.2



Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

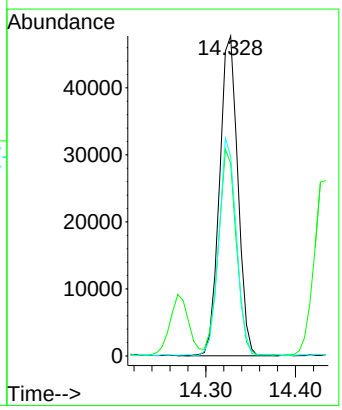
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

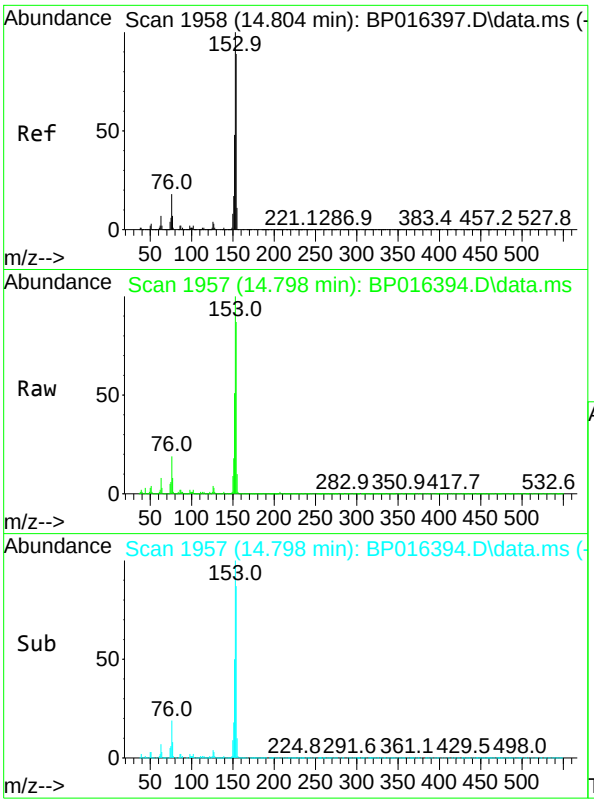


#51
2,6-Dinitrotoluene
Concen: 4.176 ng
RT: 14.328 min Scan# 1877
Delta R.T. -0.006 min
Lab File: BP016394.D
Acq: 27 Jul 2023 11:37

Tgt Ion:165 Resp: 67610

Ion	Ratio	Lower	Upper
165	100		
63	60.2	39.1	58.7#
89	62.3	42.5	63.7

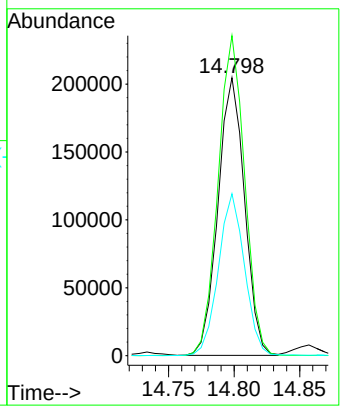




#52
Acenaphthene
Concen: 5.005 ng
RT: 14.798 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP016394.D
Acq: 27 Jul 2023 11:37

Tgt Ion:154 Resp: 28802

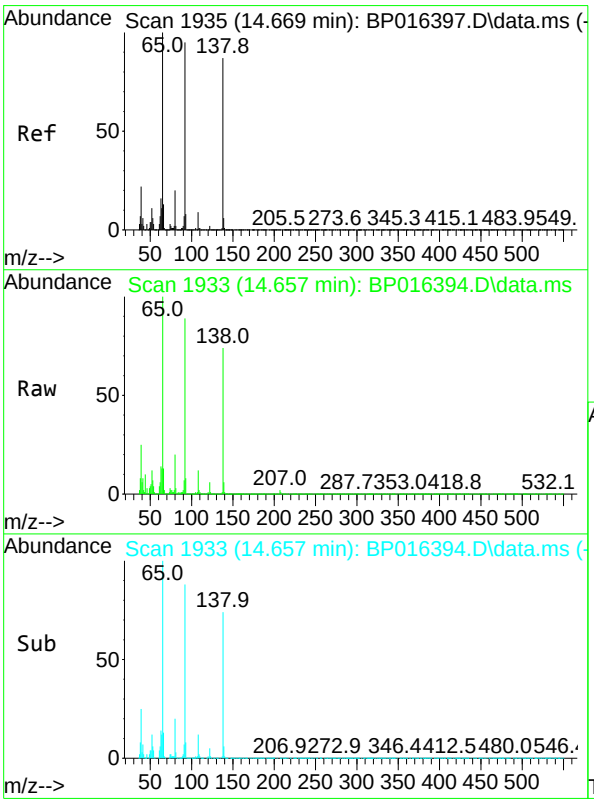
Ion	Ratio	Lower	Upper
154	100		
153	115.1	90.4	135.6
152	58.3	43.4	65.0



Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

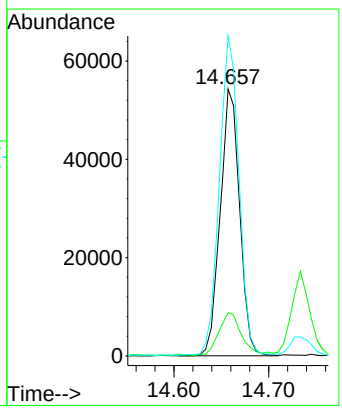
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

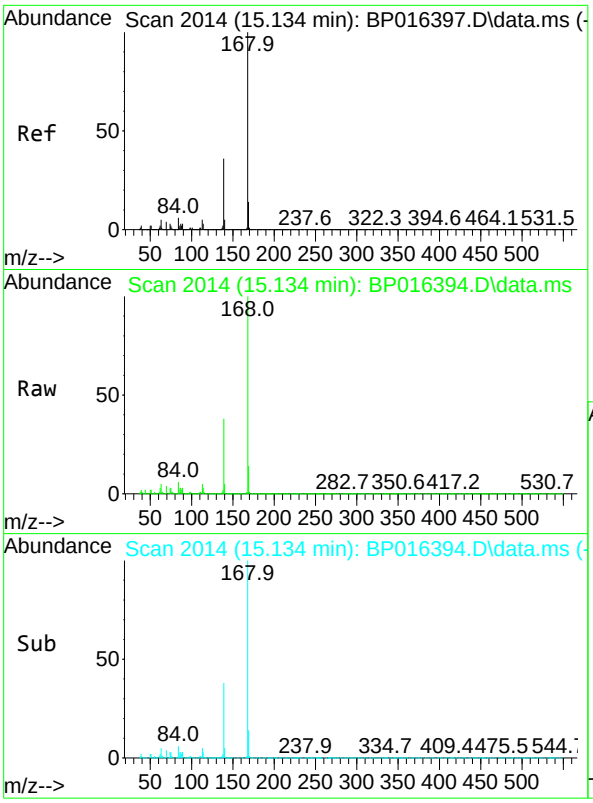


#53
3-Nitroaniline
Concen: 4.224 ng
RT: 14.657 min Scan# 1933
Delta R.T. -0.012 min
Lab File: BP016394.D
Acq: 27 Jul 2023 11:37

Tgt Ion:138 Resp: 77327

Ion	Ratio	Lower	Upper
138	100		
108	16.3	8.7	13.1#
92	119.9	87.6	131.4

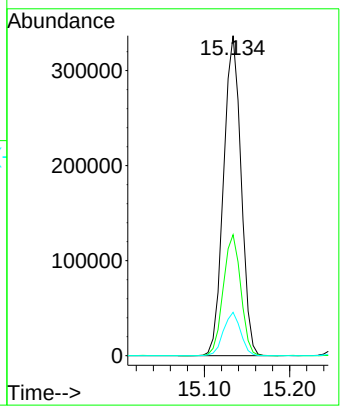




#55
Dibenzofuran
Concen: 5.103 ng
RT: 15.134 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP016394.D
Acq: 27 Jul 2023 11:37

Tgt Ion:168 Resp: 48159

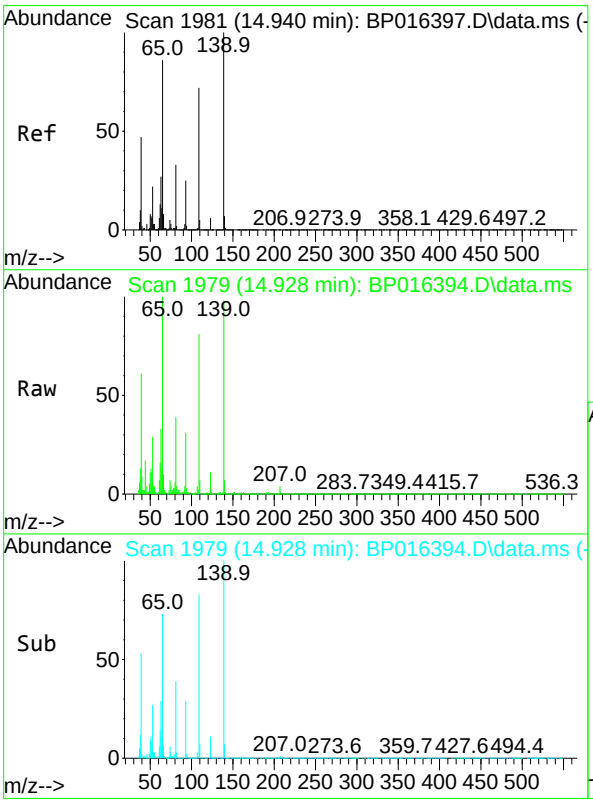
Ion	Ratio	Lower	Upper
168	100		
139	37.8	28.9	43.3
169	13.5	11.0	16.4



Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

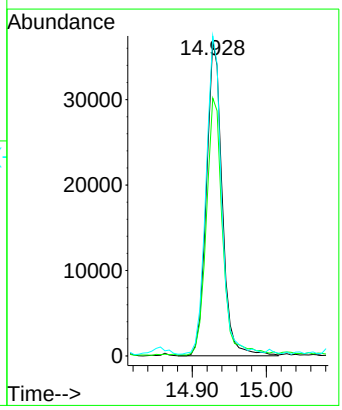
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

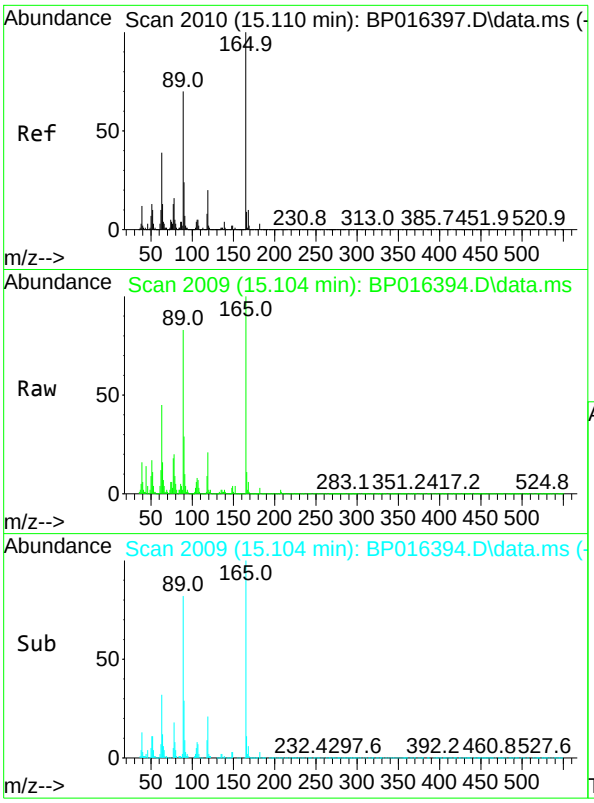


#56
4-Nitrophenol
Concen: 3.800 ng
RT: 14.928 min Scan# 1979
Delta R.T. -0.012 min
Lab File: BP016394.D
Acq: 27 Jul 2023 11:37

Tgt Ion:139 Resp: 54453

Ion	Ratio	Lower	Upper
139	100		
109	81.9	51.9	91.9
65	101.6	66.2	106.2

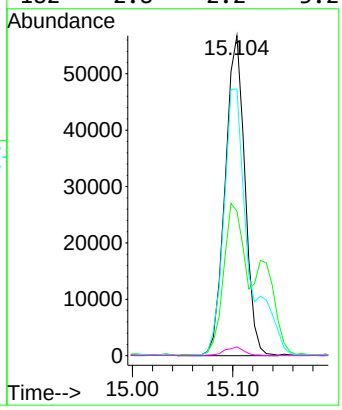




#57
2,4-Dinitrotoluene
Concen: 3.666 ng
RT: 15.104 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP016394.D
Acq: 27 Jul 2023 11:37

Tgt Ion:165 Resp: 7735

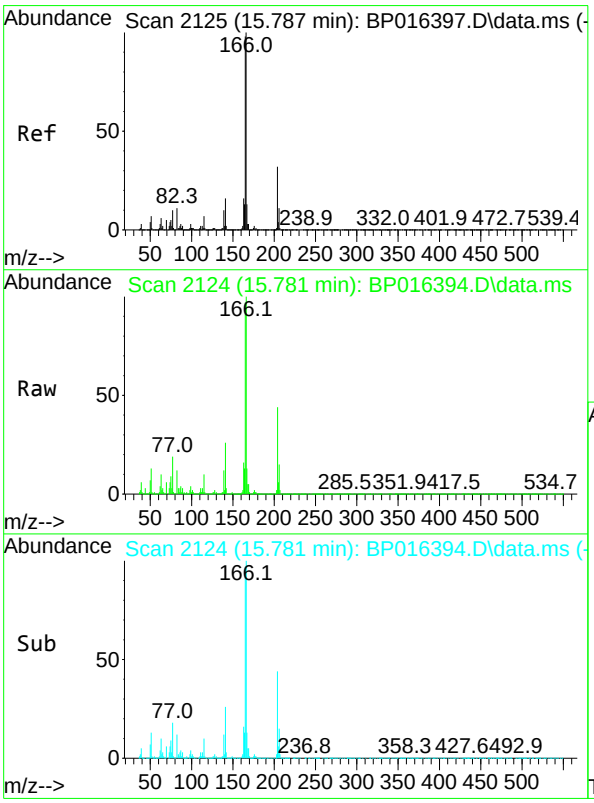
Ion	Ratio	Lower	Upper
165	100		
63	45.2	31.4	47.0
89	83.3	55.8	83.6
182	2.8	2.2	3.2



Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

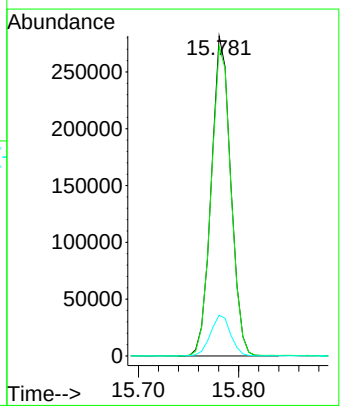
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

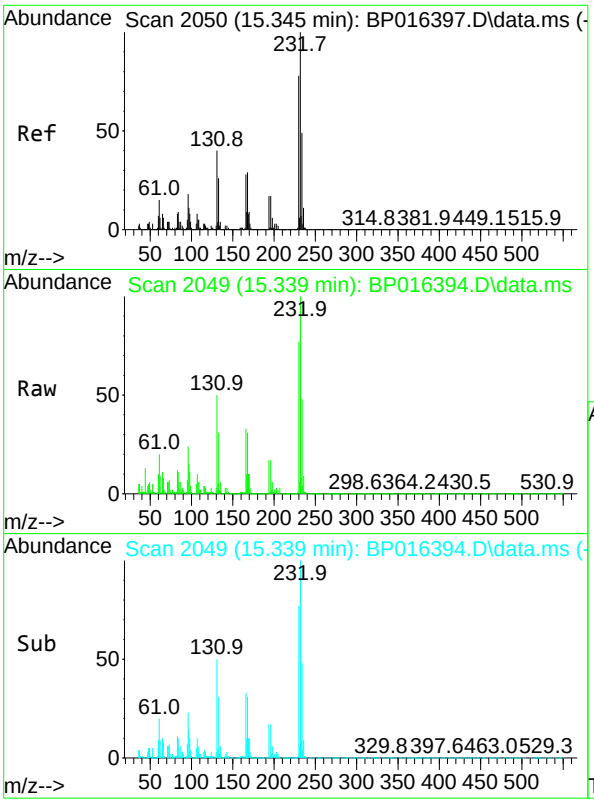


#58
Fluorene
Concen: 5.118 ng
RT: 15.781 min Scan# 2124
Delta R.T. -0.006 min
Lab File: BP016394.D
Acq: 27 Jul 2023 11:37

Tgt Ion:166 Resp: 379457

Ion	Ratio	Lower	Upper
166	100		
165	96.6	78.0	117.0
167	12.8	10.6	16.0

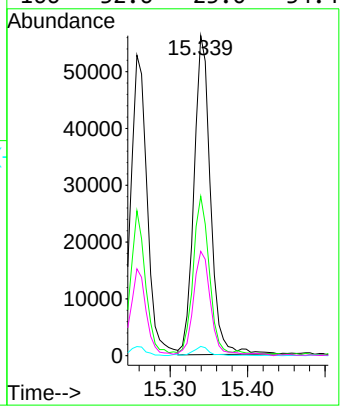




#59
2,3,4,6-Tetrachlorophenol
Concen: 4.203 ng
RT: 15.339 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP016394.D
Acq: 27 Jul 2023 11:37

Tgt Ion:232 Resp: 8294

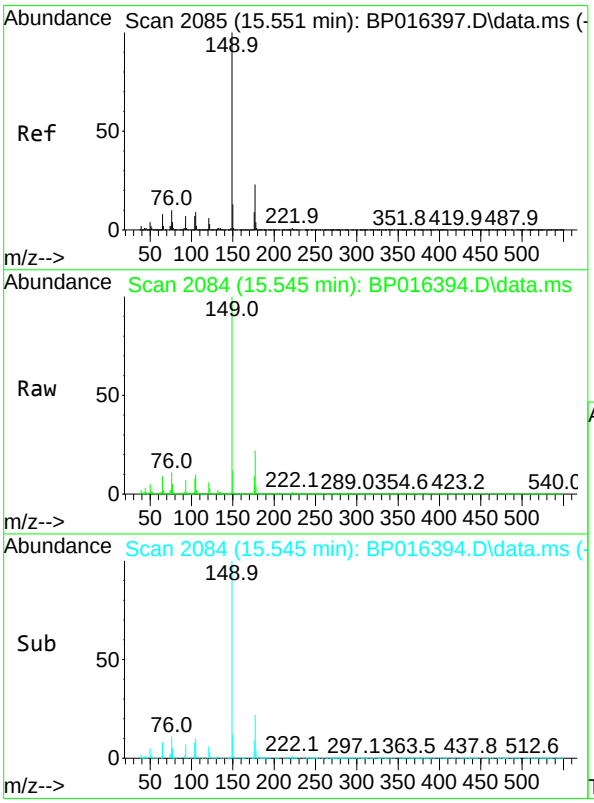
Ion	Ratio	Lower	Upper
232	100		
131	46.9	33.1	49.7
130	2.8	1.8	2.8
166	32.6	23.0	34.4



Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

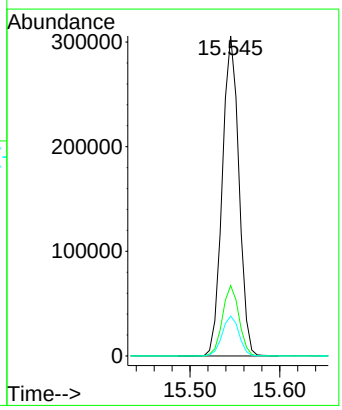
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

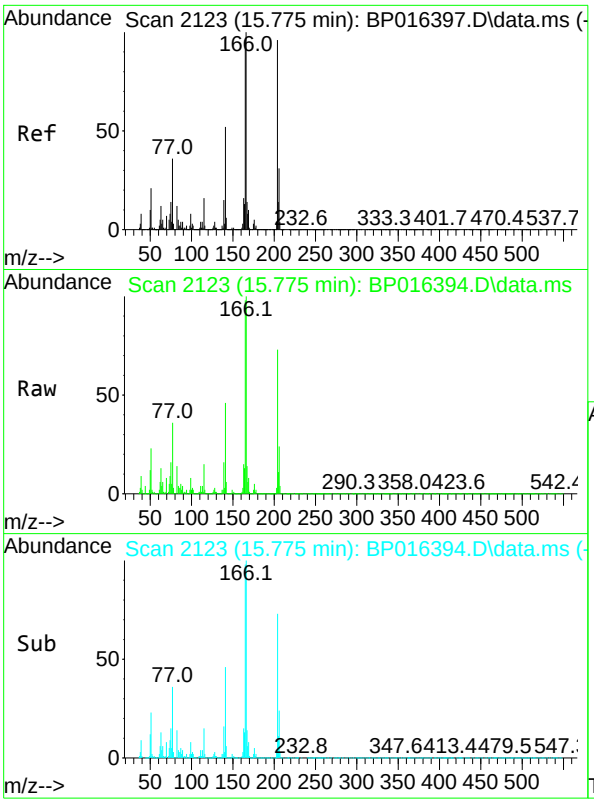


#60
Diethylphthalate
Concen: 5.010 ng
RT: 15.545 min Scan# 2084
Delta R.T. -0.006 min
Lab File: BP016394.D
Acq: 27 Jul 2023 11:37

Tgt Ion:149 Resp: 393519

Ion	Ratio	Lower	Upper
149	100		
177	22.0	18.6	27.8
150	12.5	10.1	15.1

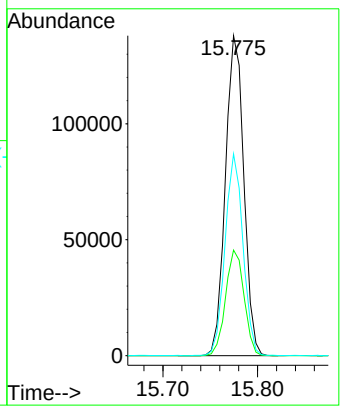




#61
4-Chlorophenyl-phenylether
Concen: 4.971 ng
RT: 15.775 min Scan# 21
Delta R.T. -0.000 min
Lab File: BP016394.D
Acq: 27 Jul 2023 11:37

Tgt Ion:204 Resp: 18598

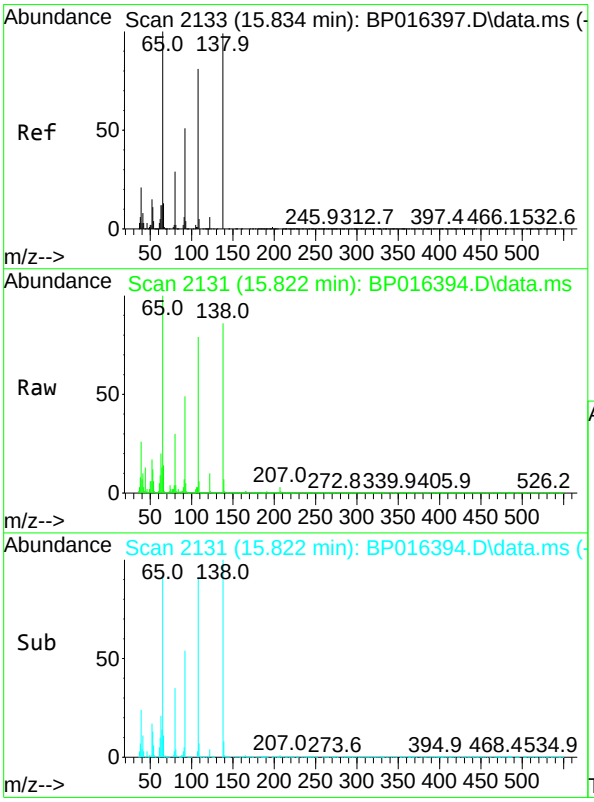
Ion	Ratio	Lower	Upper
204	100		
206	33.0	26.2	39.4
141	63.1	43.4	65.0



Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

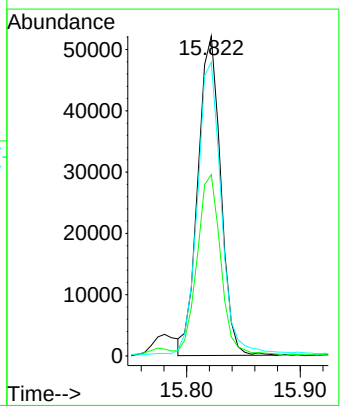
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

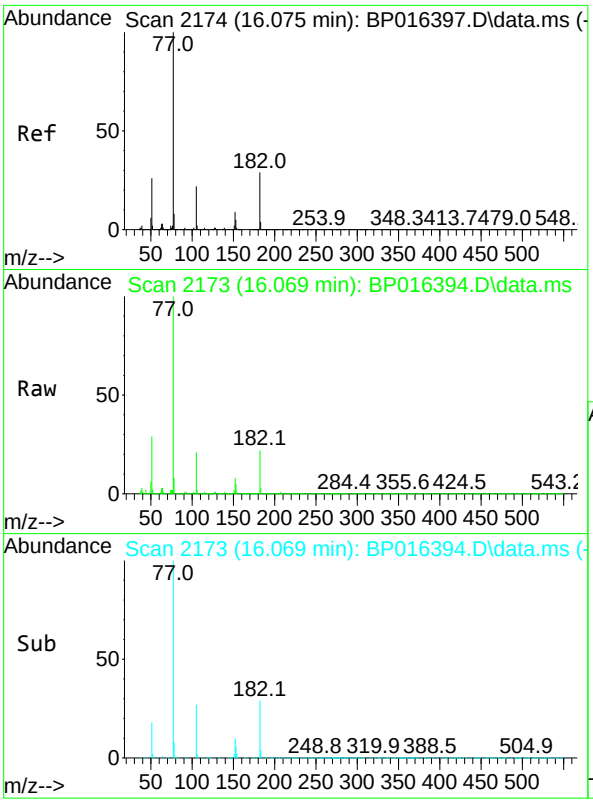


#62
4-Nitroaniline
Concen: 4.000 ng
RT: 15.822 min Scan# 2131
Delta R.T. -0.012 min
Lab File: BP016394.D
Acq: 27 Jul 2023 11:37

Tgt Ion:138 Resp: 72659

Ion	Ratio	Lower	Upper
138	100		
92	56.7	30.3	70.3
108	91.8	60.1	100.1

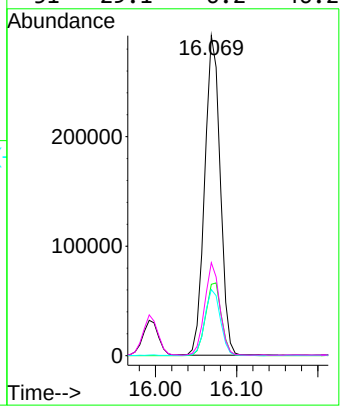




#63
Azobenzene
Concen: 5.212 ng
RT: 16.069 min Scan# 21
Delta R.T. -0.006 min
Lab File: BP016394.D
Acq: 27 Jul 2023 11:37

Tgt Ion: 77 Resp: 38653

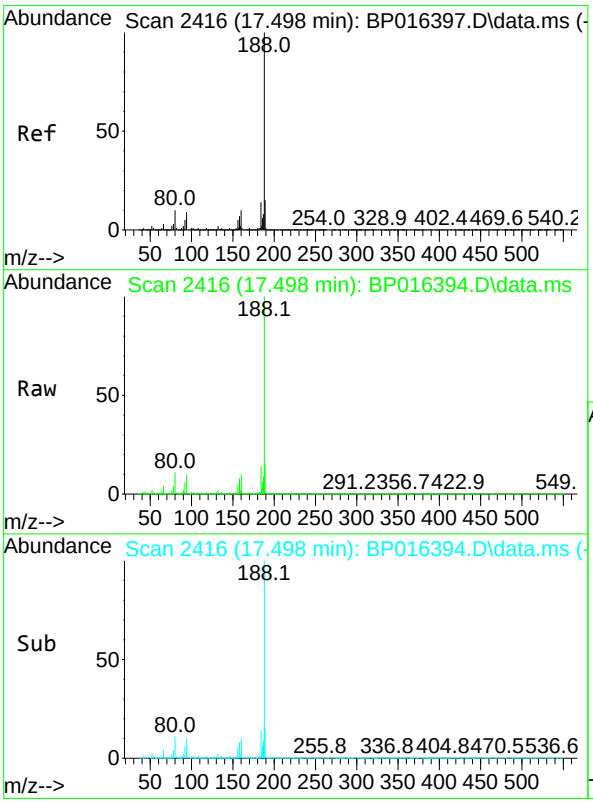
Ion	Ratio	Lower	Upper
77	100		
182	22.3	8.6	48.6
105	20.6	2.4	42.4
51	29.1	6.2	46.2



Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

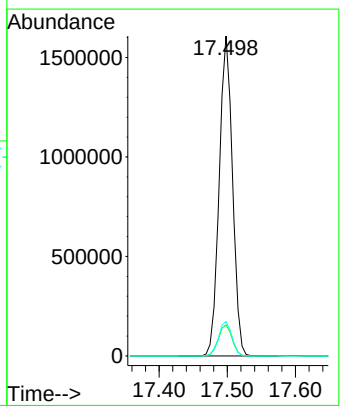
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

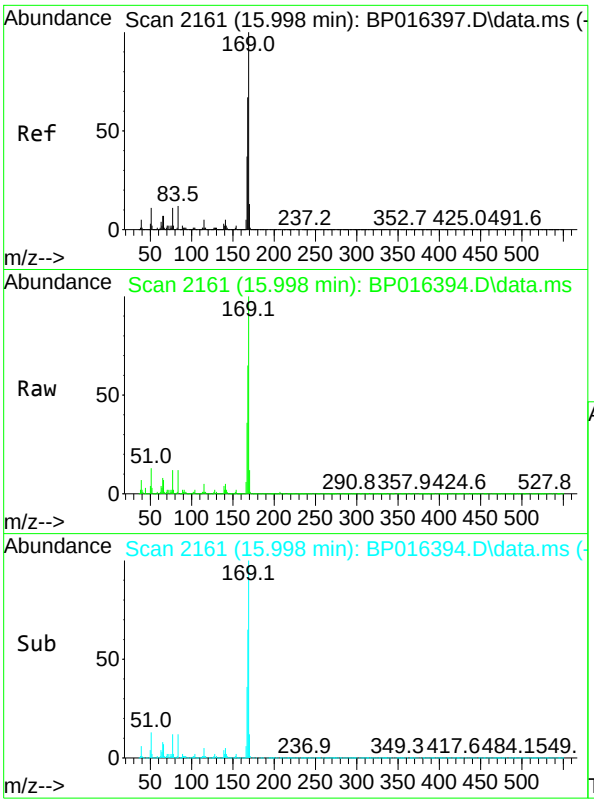


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.498 min Scan# 2416
Delta R.T. -0.000 min
Lab File: BP016394.D
Acq: 27 Jul 2023 11:37

Tgt Ion:188 Resp: 2182918

Ion	Ratio	Lower	Upper
188	100		
94	9.7	7.4	11.0
80	10.7	7.8	11.8

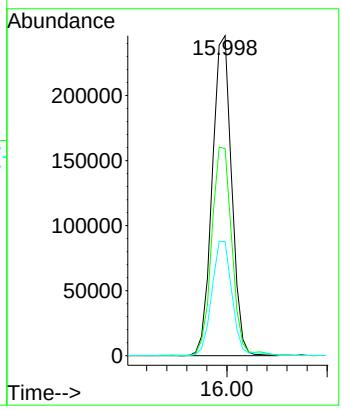




#66
n-Nitrosodiphenylamine
Concen: 5.128 ng
RT: 15.998 min Scan# 21
Delta R.T. -0.000 min
Lab File: BP016394.D
Acq: 27 Jul 2023 11:37

Tgt Ion:169 Resp: 32990

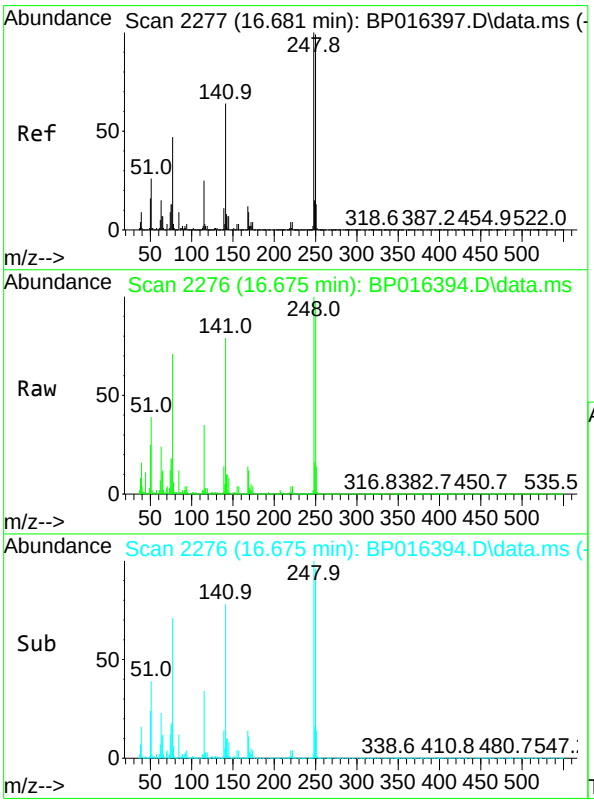
Ion	Ratio	Lower	Upper
169	100		
168	64.8	53.6	80.4
167	35.7	29.2	43.8



Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

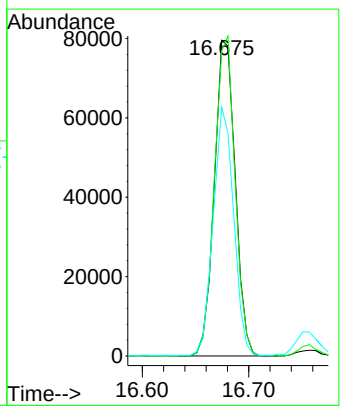
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

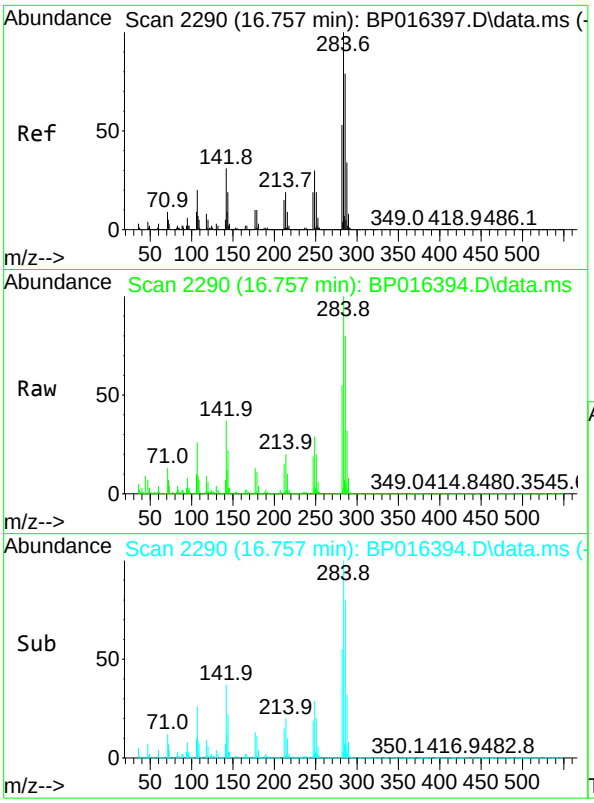


#67
4-Bromophenyl-phenylether
Concen: 4.696 ng
RT: 16.675 min Scan# 2276
Delta R.T. -0.006 min
Lab File: BP016394.D
Acq: 27 Jul 2023 11:37

Tgt Ion:248 Resp: 108534

Ion	Ratio	Lower	Upper
248	100		
250	96.6	78.9	118.3
141	78.7	51.0	76.4#

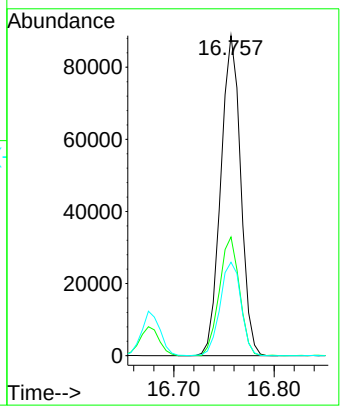




#68
Hexachlorobenzene
Concen: 4.740 ng
RT: 16.757 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP016394.D
Acq: 27 Jul 2023 11:37

Tgt Ion:284 Resp: 12217

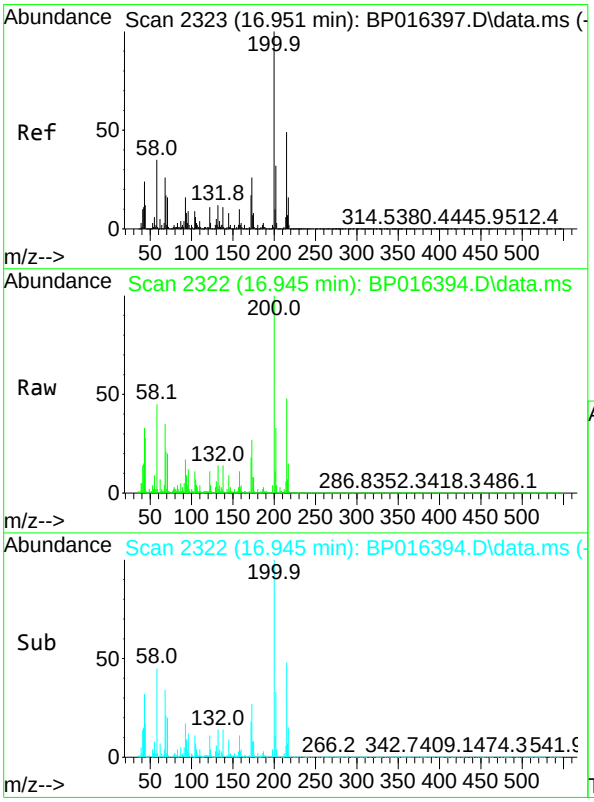
Ion	Ratio	Lower	Upper
284	100		
142	37.1	25.2	37.8
249	29.2	26.0	39.0



Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

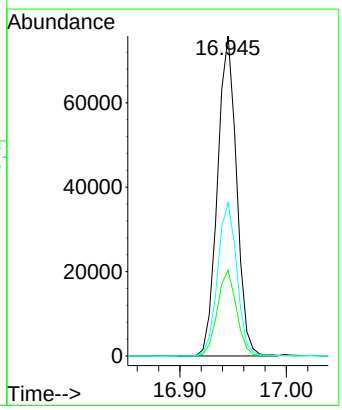
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

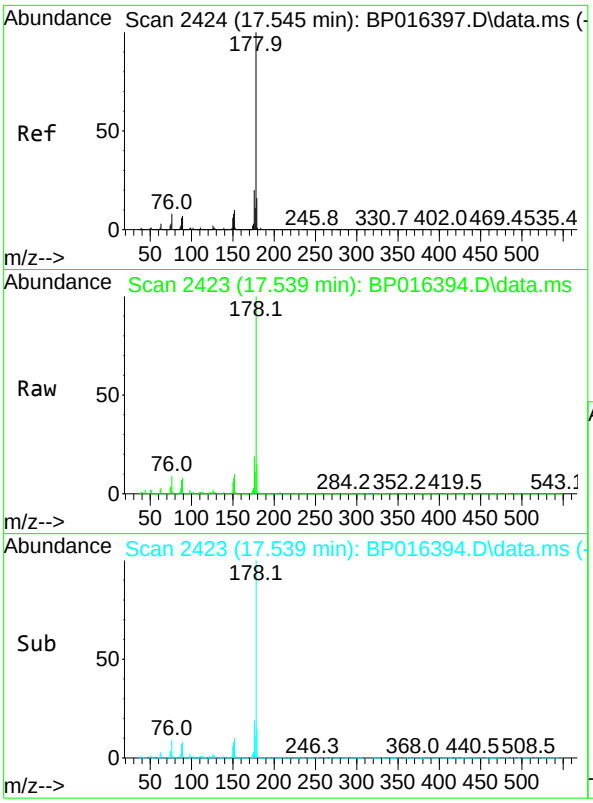


#69
Atrazine
Concen: 4.917 ng
RT: 16.945 min Scan# 2322
Delta R.T. -0.006 min
Lab File: BP016394.D
Acq: 27 Jul 2023 11:37

Tgt Ion:200 Resp: 94080

Ion	Ratio	Lower	Upper
200	100		
173	26.7	5.8	45.8
215	47.8	29.2	69.2

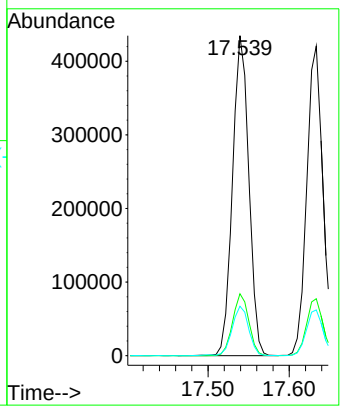




#71
Phenanthrene
Concen: 5.228 ng
RT: 17.539 min Scan# 24
Delta R.T. -0.006 min
Lab File: BP016394.D
Acq: 27 Jul 2023 11:37

Tgt Ion:178 Resp: 60595

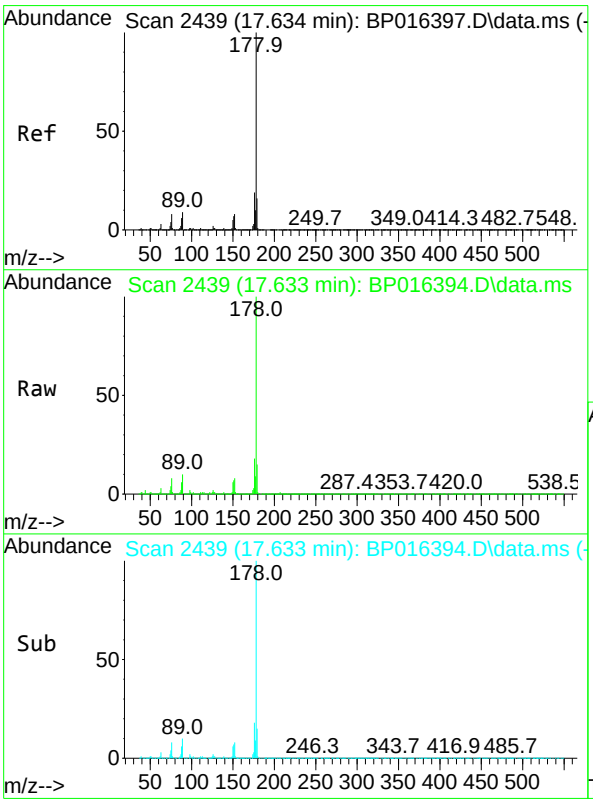
Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.8	23.8
179	15.4	12.4	18.6



Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

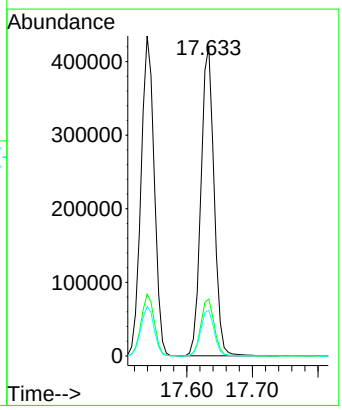
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

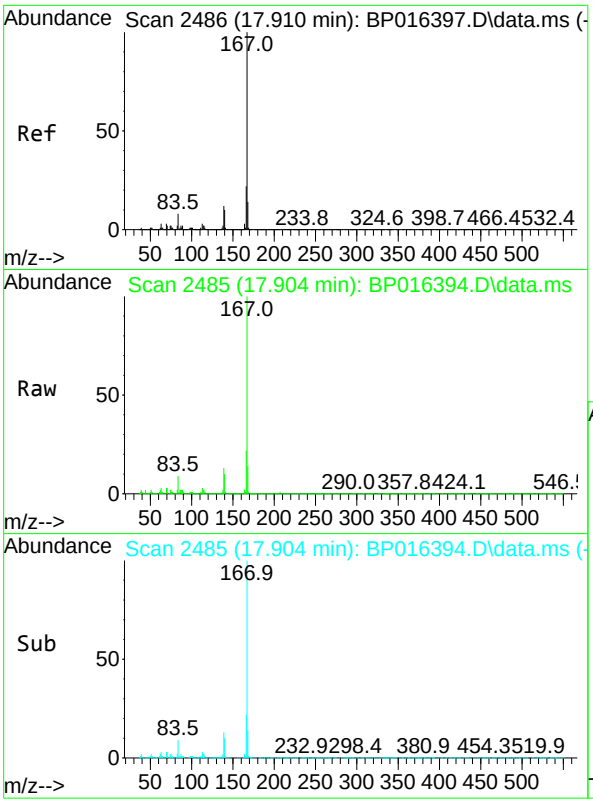


#72
Anthracene
Concen: 5.016 ng
RT: 17.633 min Scan# 2439
Delta R.T. -0.000 min
Lab File: BP016394.D
Acq: 27 Jul 2023 11:37

Tgt Ion:178 Resp: 584576

Ion	Ratio	Lower	Upper
178	100		
176	18.4	15.2	22.8
179	14.8	12.6	19.0

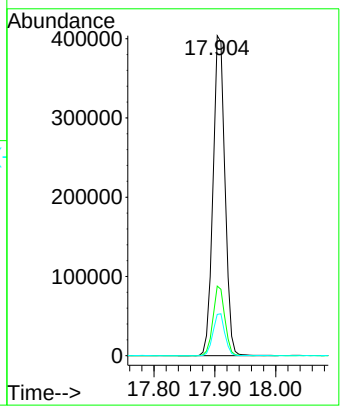




#73
Carbazole
Concen: 5.027 ng
RT: 17.904 min Scan# 24
Delta R.T. -0.006 min
Lab File: BP016394.D
Acq: 27 Jul 2023 11:37

Tgt Ion:167 Resp: 54929

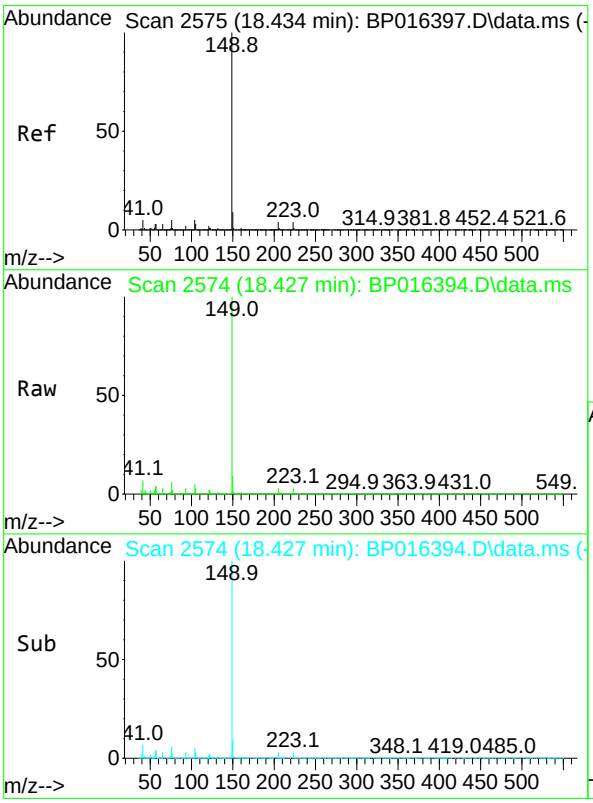
Ion	Ratio	Lower	Upper
167	100		
166	21.8	17.2	25.8
139	12.9	9.9	14.9



Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

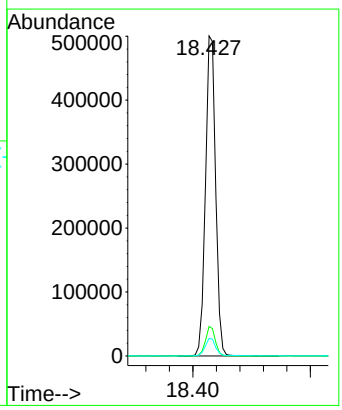
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

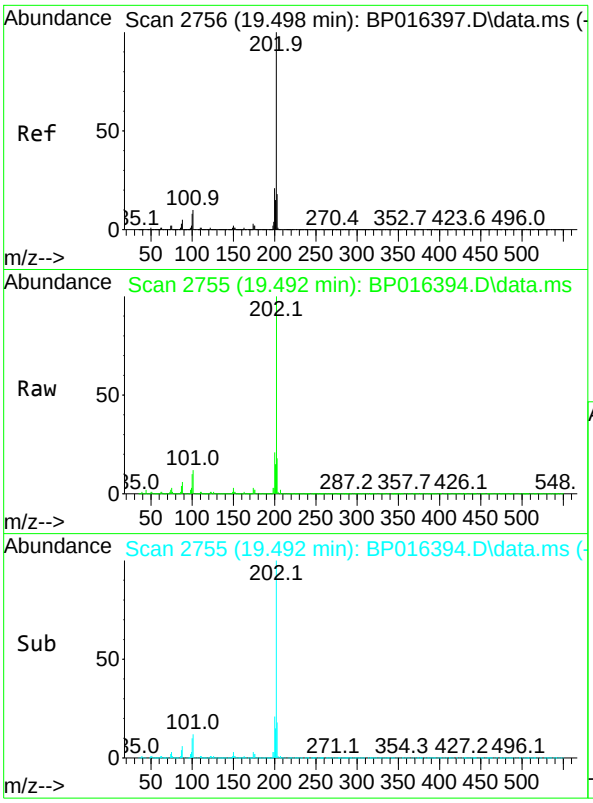


#74
Di-n-butylphthalate
Concen: 4.739 ng
RT: 18.427 min Scan# 2574
Delta R.T. -0.006 min
Lab File: BP016394.D
Acq: 27 Jul 2023 11:37

Tgt Ion:149 Resp: 599100

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.4	11.2
104	5.5	3.8	5.8

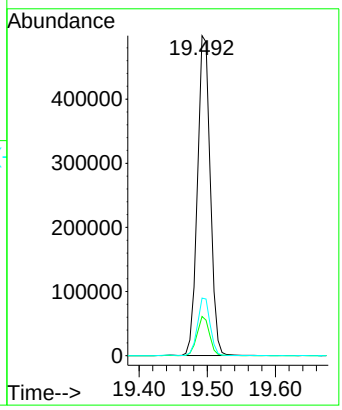




#75
Fluoranthene
Concen: 4.785 ng
RT: 19.492 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP016394.D
Acq: 27 Jul 2023 11:37

Tgt Ion:202 Resp: 65009

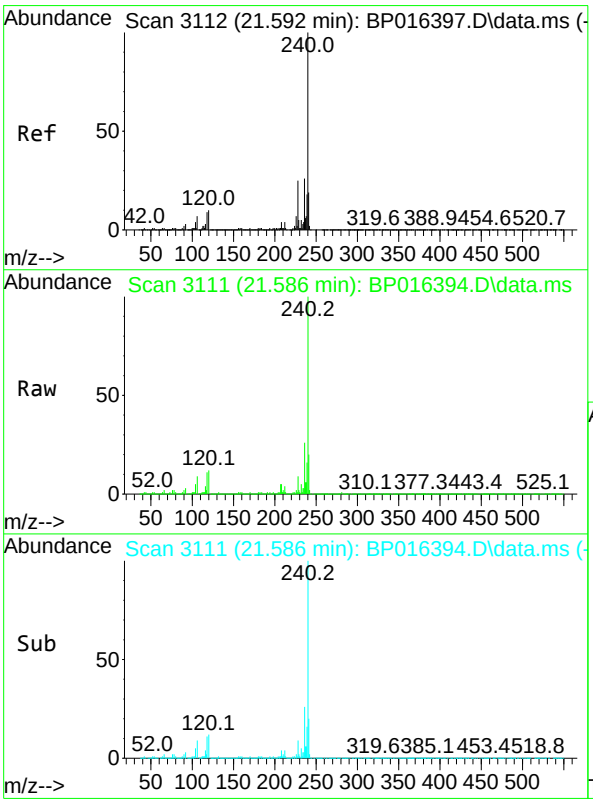
Ion	Ratio	Lower	Upper
202	100		
101	12.3	0.0	30.2
203	18.0	0.0	37.9



Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

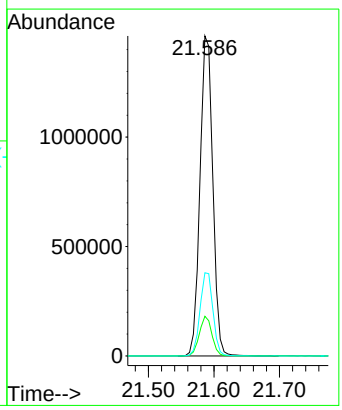
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

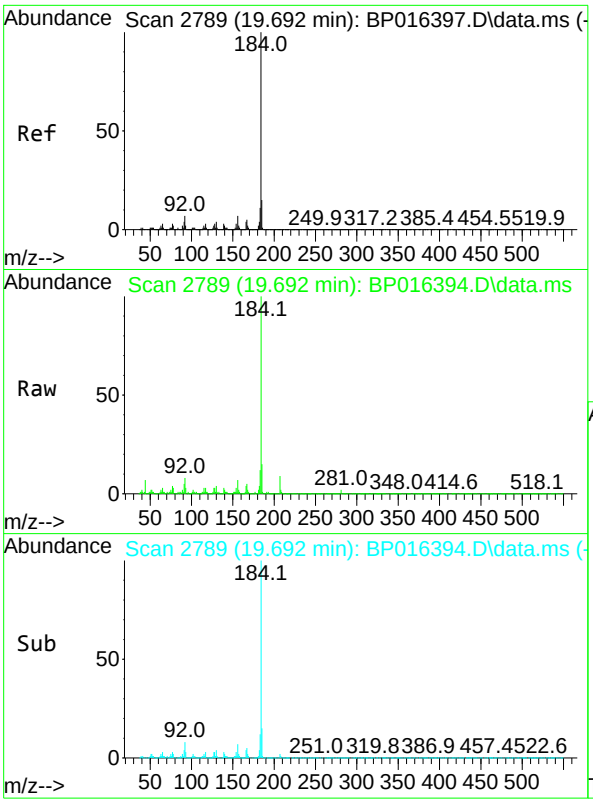


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.586 min Scan# 3111
Delta R.T. -0.006 min
Lab File: BP016394.D
Acq: 27 Jul 2023 11:37

Tgt Ion:240 Resp: 1991981

Ion	Ratio	Lower	Upper
240	100		
120	12.4	7.9	11.9#
236	26.0	21.1	31.7

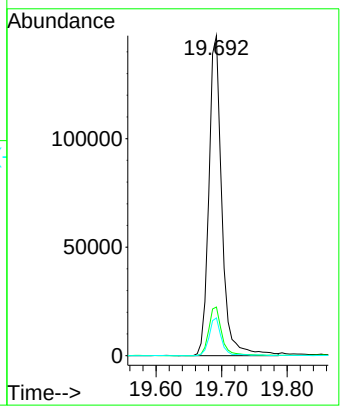




#77
Benzidine
Concen: 5.871 ng
RT: 19.692 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP016394.D
Acq: 27 Jul 2023 11:37

Tgt Ion:184 Resp: 20276

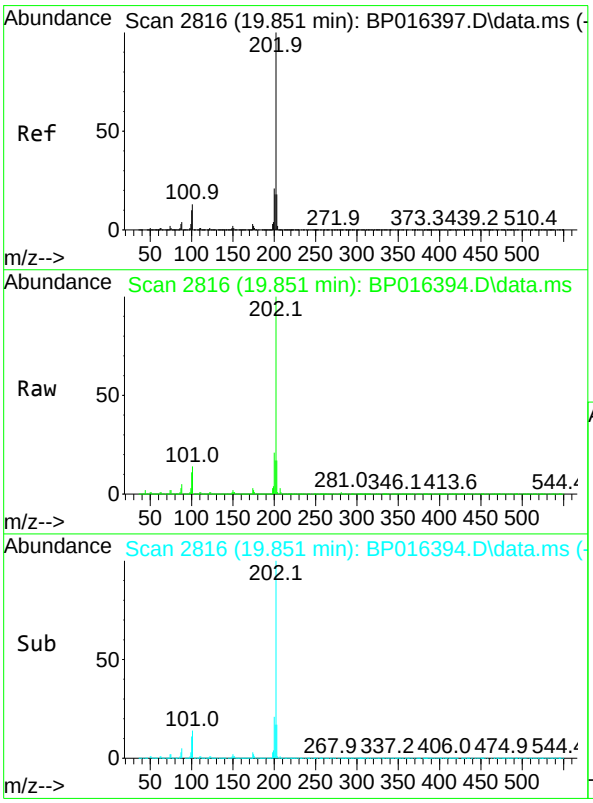
Ion	Ratio	Lower	Upper
184	100		
185	15.2	12.0	18.0
183	11.8	9.2	13.8



Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

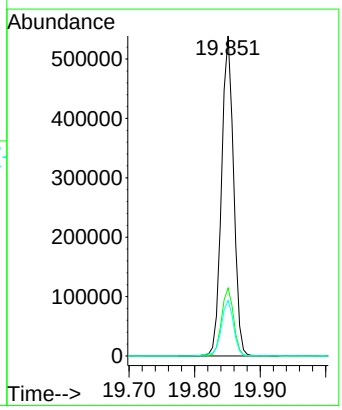
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

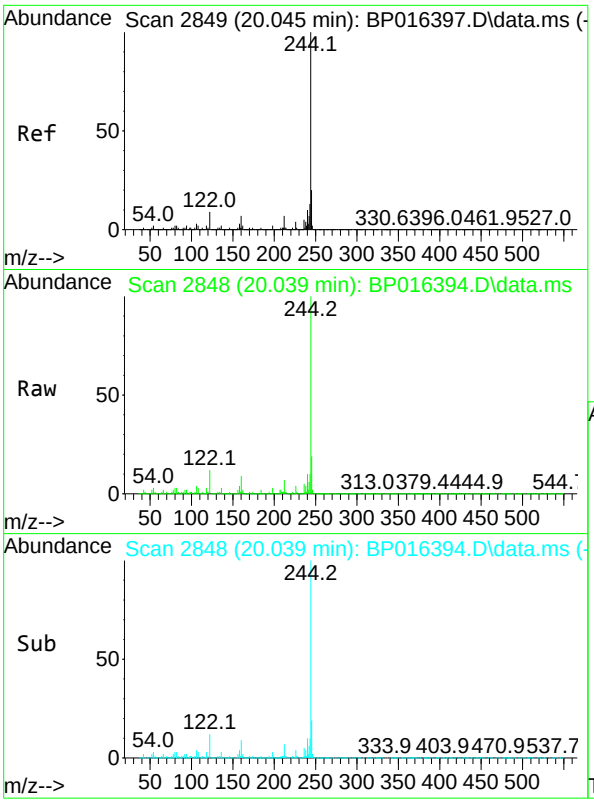


#78
Pyrene
Concen: 5.147 ng
RT: 19.851 min Scan# 2816
Delta R.T. -0.000 min
Lab File: BP016394.D
Acq: 27 Jul 2023 11:37

Tgt Ion:202 Resp: 687282

Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.1	25.7
203	17.4	14.4	21.6

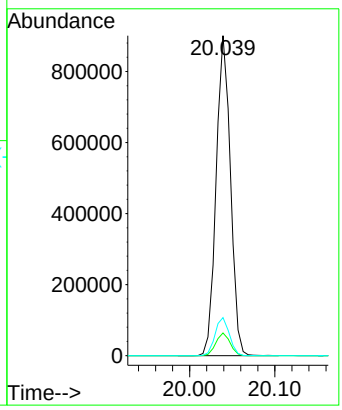




#79
Terphenyl-d14
Concen: 11.133 ng
RT: 20.039 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP016394.D
Acq: 27 Jul 2023 11:37

Tgt Ion:244 Resp: 104984

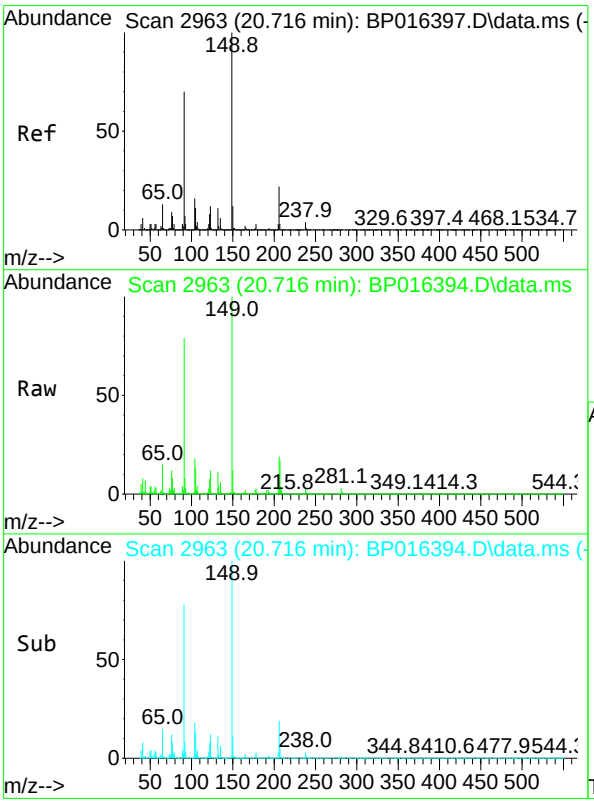
Ion	Ratio	Lower	Upper
244	100		
212	7.1	5.6	8.4
122	11.9	7.4	11.2



Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

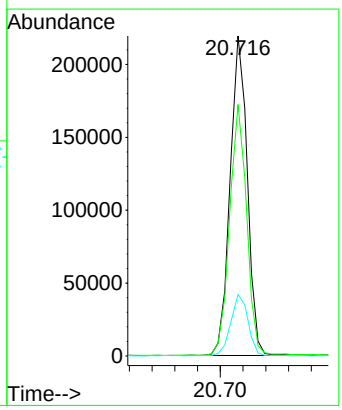
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

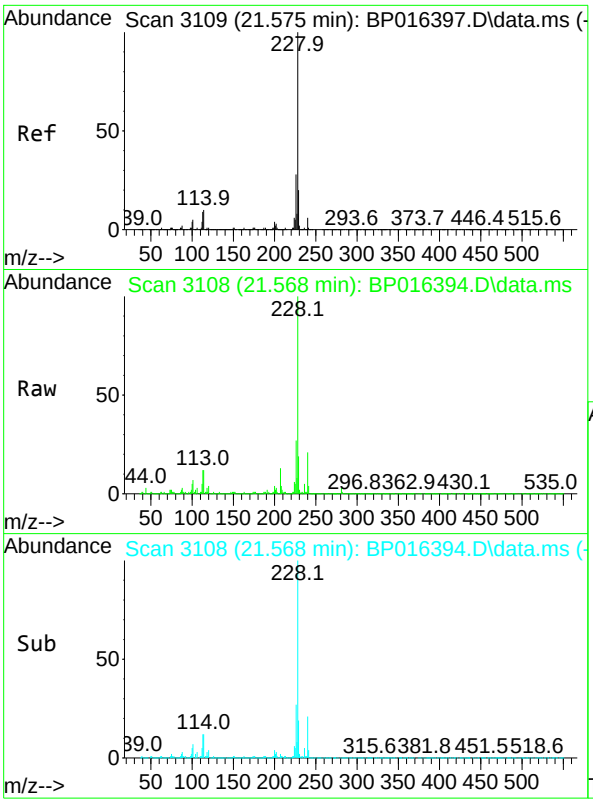


#80
Butylbenzylphthalate
Concen: 4.384 ng
RT: 20.716 min Scan# 2963
Delta R.T. -0.000 min
Lab File: BP016394.D
Acq: 27 Jul 2023 11:37

Tgt Ion:149 Resp: 229981

Ion	Ratio	Lower	Upper
149	100		
91	78.6	56.1	84.1
206	19.2	17.8	26.6

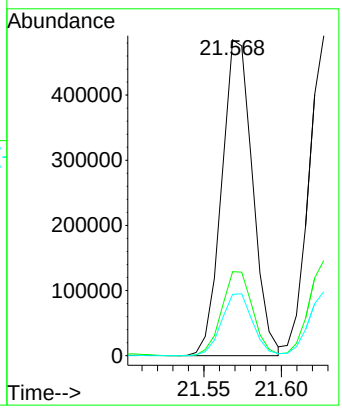




#81
Benzo(a)anthracene
Concen: 5.014 ng
RT: 21.568 min Scan# 3
Delta R.T. -0.006 min
Lab File: BP016394.D
Acq: 27 Jul 2023 11:37

Tgt Ion:228 Resp: 67019

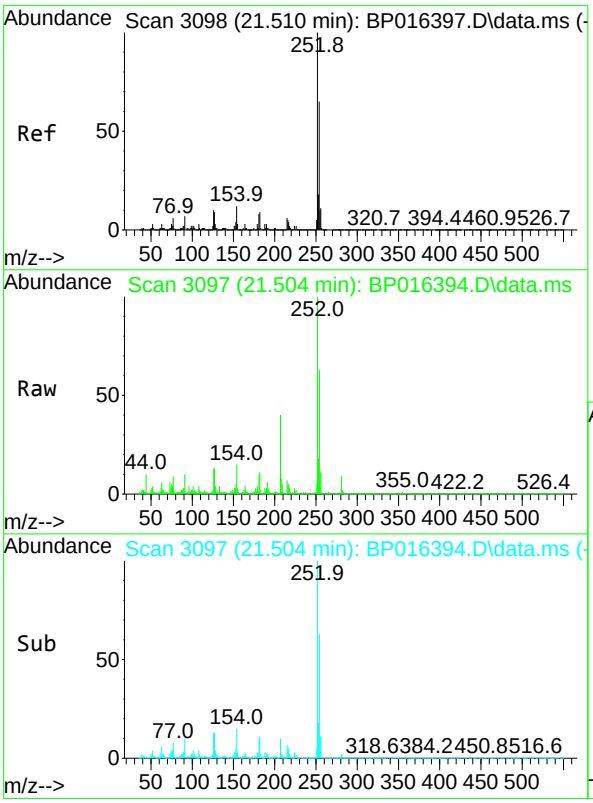
Ion	Ratio	Lower	Upper
228	100		
226	26.6	22.4	33.6
229	19.4	16.2	24.4



Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

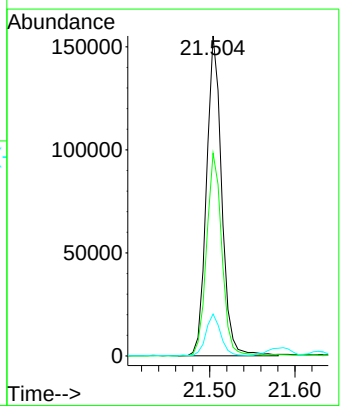
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

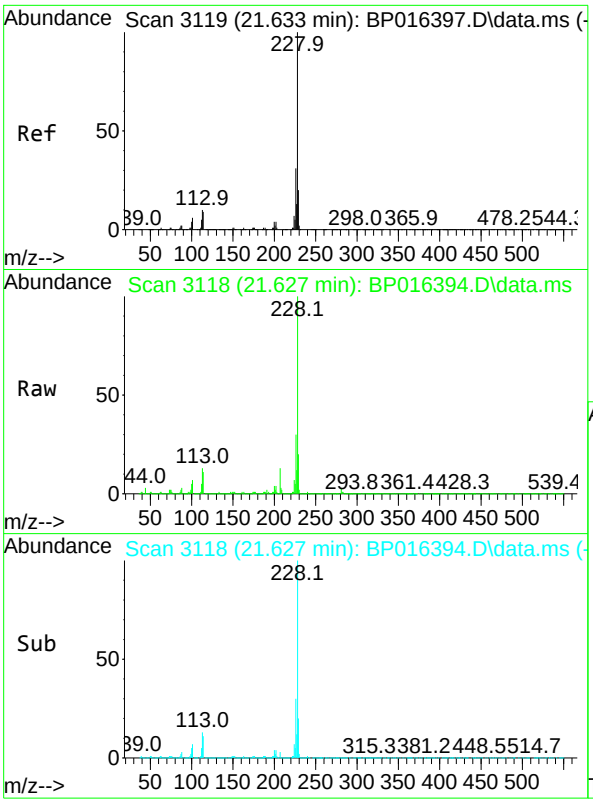


#82
3,3'-Dichlorobenzidine
Concen: 4.393 ng
RT: 21.504 min Scan# 3097
Delta R.T. -0.006 min
Lab File: BP016394.D
Acq: 27 Jul 2023 11:37

Tgt Ion:252 Resp: 192742

Ion	Ratio	Lower	Upper
252	100		
254	63.4	52.2	78.2
126	13.1	7.8	11.6#

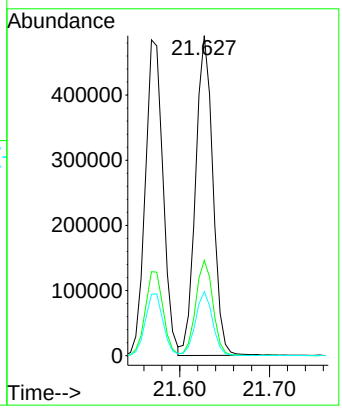




#83
Chrysene
Concen: 5.145 ng
RT: 21.627 min Scan# 3
Delta R.T. -0.006 min
Lab File: BP016394.D
Acq: 27 Jul 2023 11:37

Tgt Ion:228 Resp: 65662

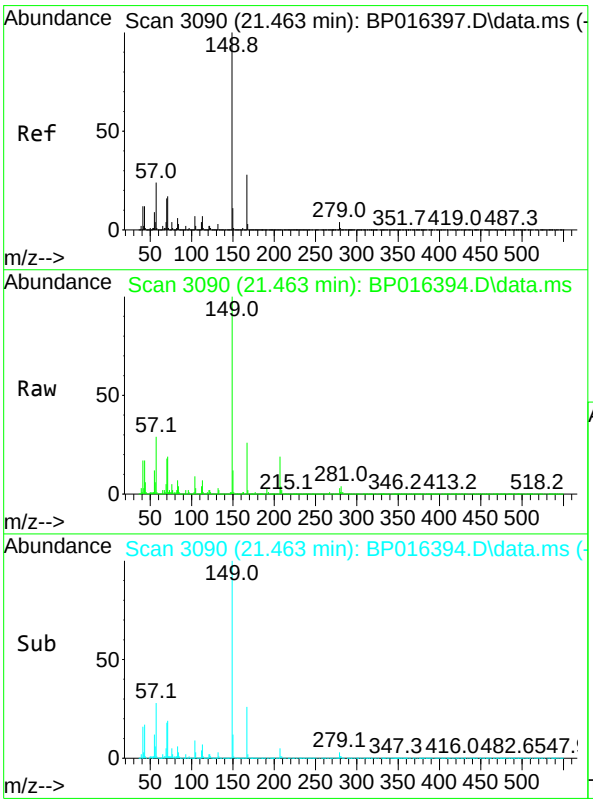
Ion	Ratio	Lower	Upper
228	100		
226	29.7	24.6	37.0
229	20.0	16.0	24.0



Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

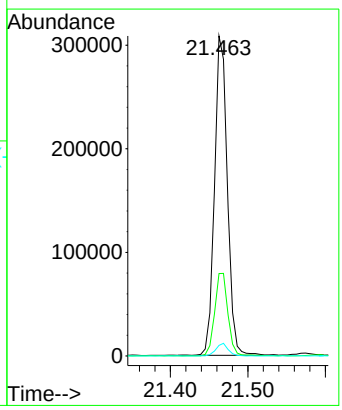
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

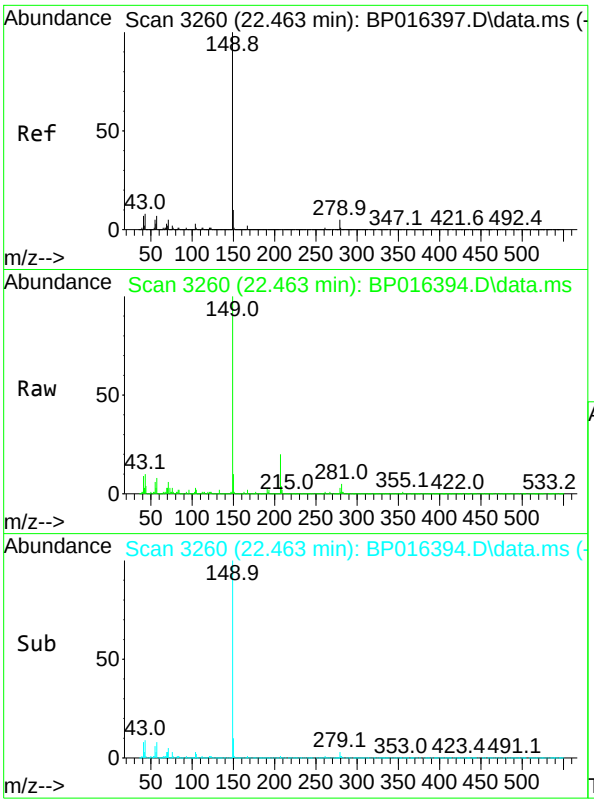


#84
Bis(2-ethylhexyl)phthalate
Concen: 4.502 ng
RT: 21.463 min Scan# 3090
Delta R.T. -0.000 min
Lab File: BP016394.D
Acq: 27 Jul 2023 11:37

Tgt Ion:149 Resp: 354548

Ion	Ratio	Lower	Upper
149	100		
167	25.8	22.5	33.7
279	3.3	3.6	5.4#

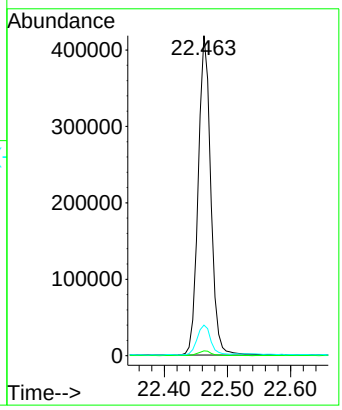




#85
Di-n-octyl phthalate
Concen: 4.354 ng
RT: 22.463 min Scan# 3
Delta R.T. -0.000 min
Lab File: BP016394.D
Acq: 27 Jul 2023 11:37

Tgt Ion:149 Resp: 57668

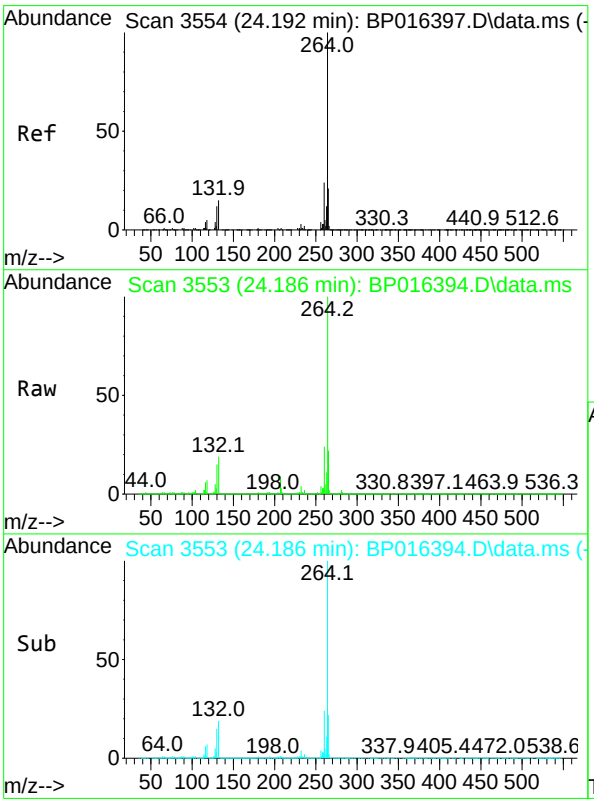
Ion	Ratio	Lower	Upper
149	100		
167	1.5	1.3	1.9
43	10.0	6.6	9.8



Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

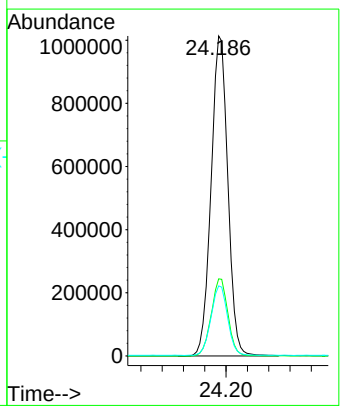
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

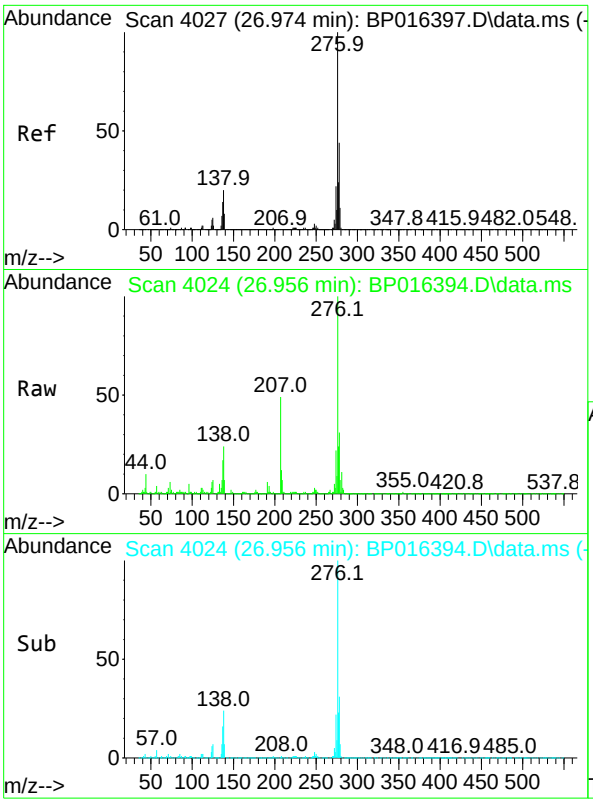


#86
Perylene-d12
Concen: 20.000 ng
RT: 24.186 min Scan# 3553
Delta R.T. -0.006 min
Lab File: BP016394.D
Acq: 27 Jul 2023 11:37

Tgt Ion:264 Resp: 2209674

Ion	Ratio	Lower	Upper
264	100		
260	24.1	19.3	28.9
265	21.9	17.4	26.0

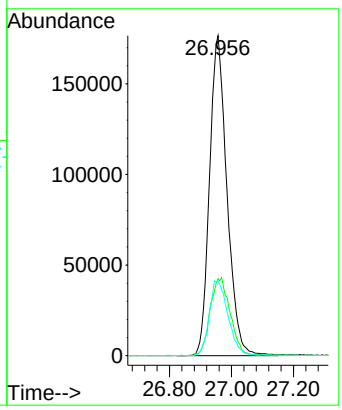




#87
Indeno(1,2,3-cd)pyrene
Concen: 4.625 ng
RT: 26.956 min Scan# 4
Delta R.T. -0.018 min
Lab File: BP016394.D
Acq: 27 Jul 2023 11:37

Tgt Ion:276 Resp: 68899

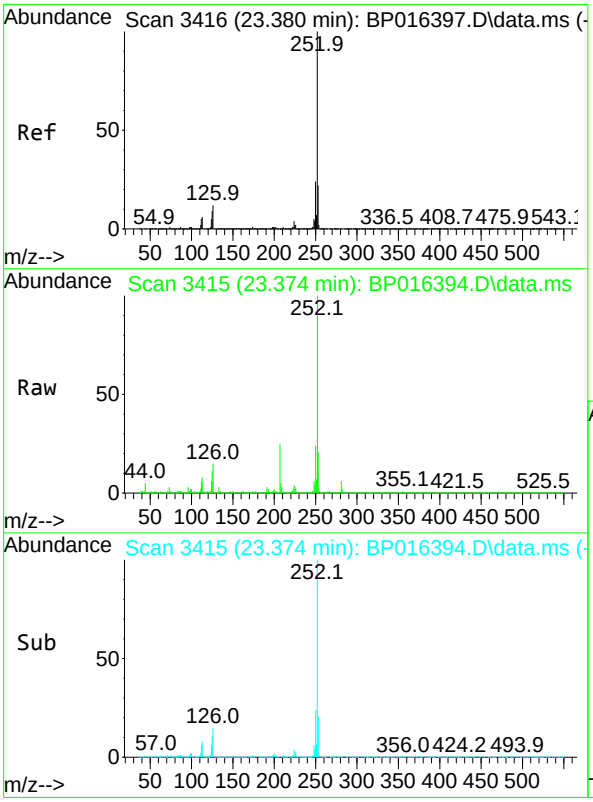
Ion	Ratio	Lower	Upper
276	100		
138	27.7	18.4	27.6#
277	25.2	20.4	30.6



Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

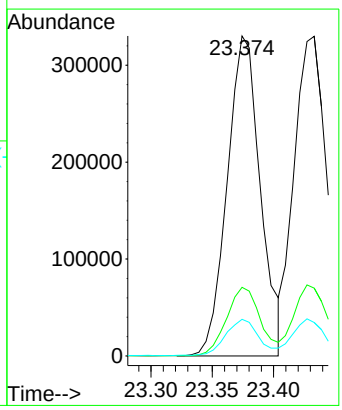
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

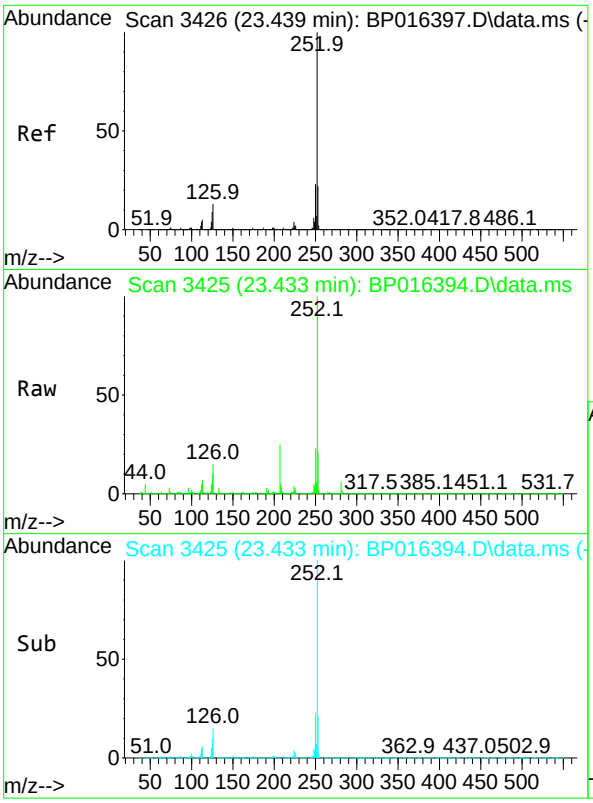


#88
Benzo(b)fluoranthene
Concen: 4.857 ng m
RT: 23.374 min Scan# 3415
Delta R.T. -0.006 min
Lab File: BP016394.D
Acq: 27 Jul 2023 11:37

Tgt Ion:252 Resp: 622107

Ion	Ratio	Lower	Upper
252	100		
253	21.4	17.8	26.8
125	11.5	7.4	11.2#





#89
Benzo(k)fluoranthene
Concen: 4.831 ng
RT: 23.433 min Scan# 3
Delta R.T. -0.006 min
Lab File: BP016394.D
Acq: 27 Jul 2023 11:37

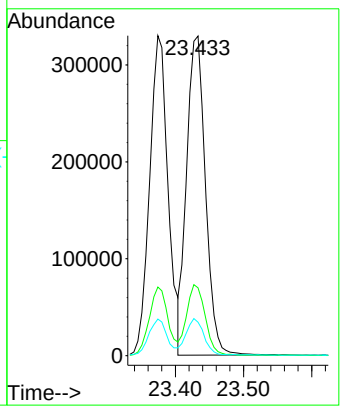
Tgt Ion:252 Resp: 62925

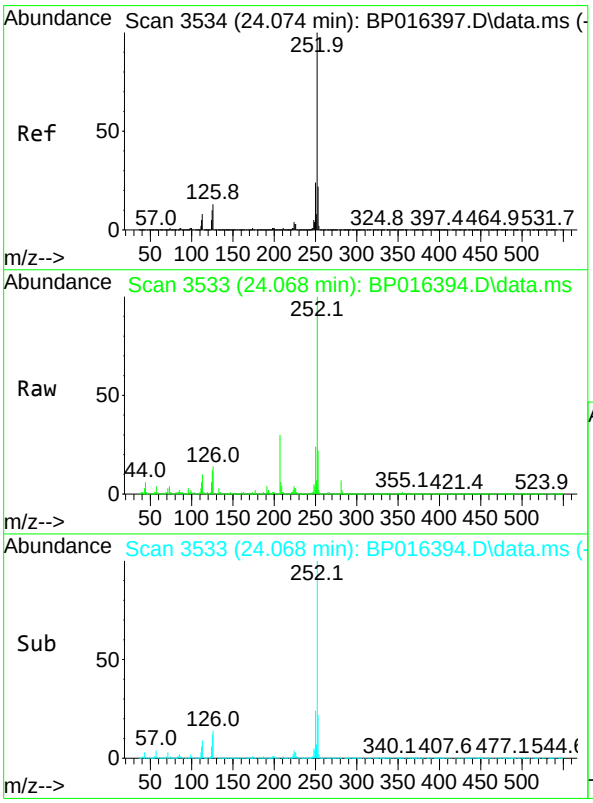
Ion	Ratio	Lower	Upper
252	100		
253	21.2	17.8	26.8
125	10.5	7.1	10.7

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

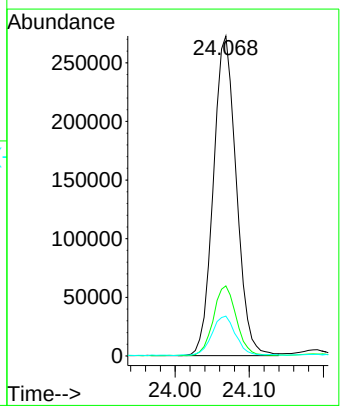


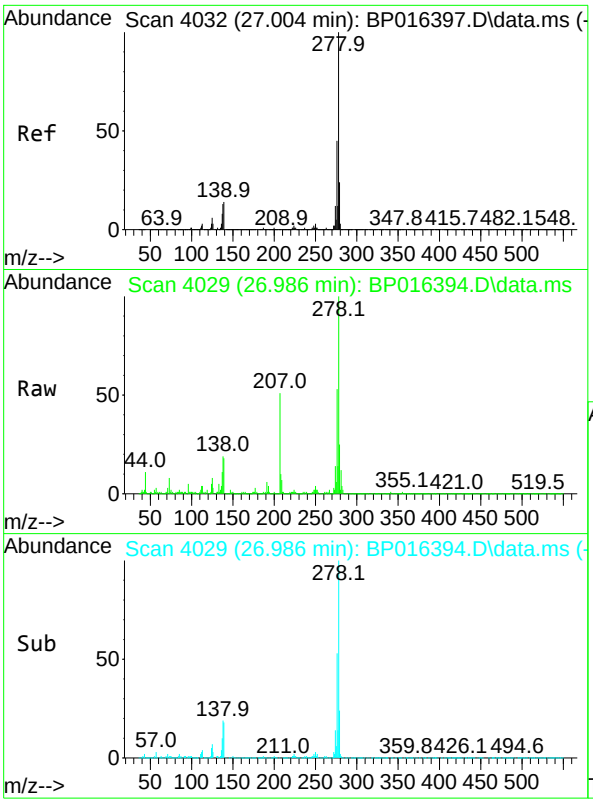


#90
Benzo(a)pyrene
Concen: 4.732 ng
RT: 24.068 min Scan# 3533
Delta R.T. -0.006 min
Lab File: BP016394.D
Acq: 27 Jul 2023 11:37

Tgt Ion:252 Resp: 587132

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.8	26.6
125	12.5	8.3	12.5

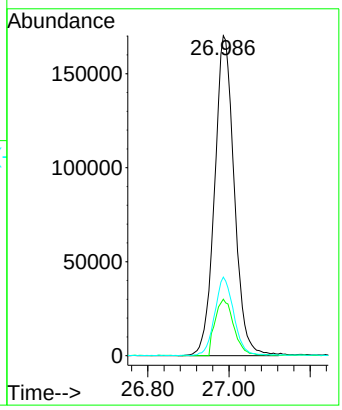




#91
Dibenzo(a,h)anthracene
Concen: 4.612 ng
RT: 26.986 min Scan# 4
Delta R.T. -0.018 min
Lab File: BP016394.D
Acq: 27 Jul 2023 11:37

Tgt Ion:278 Resp: 57295

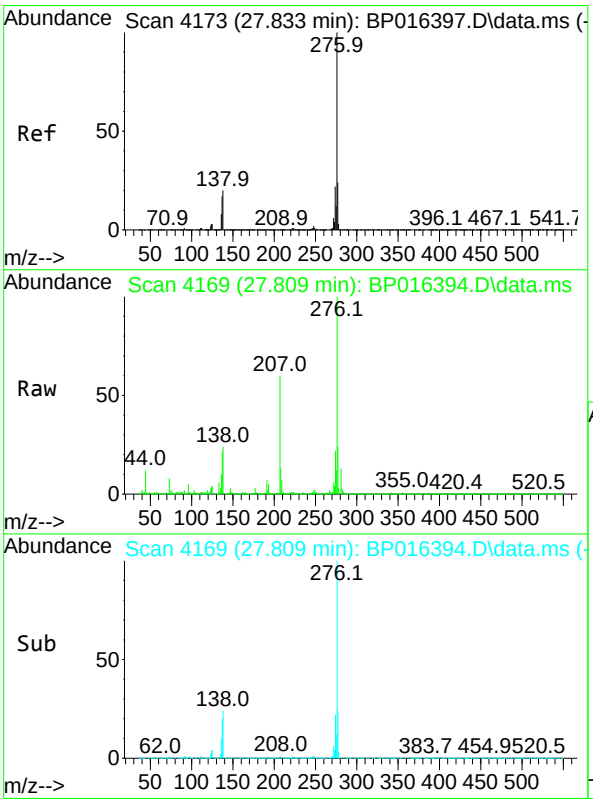
Ion	Ratio	Lower	Upper
278	100		
139	17.6	11.6	17.4#
279	24.5	19.0	28.6



Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

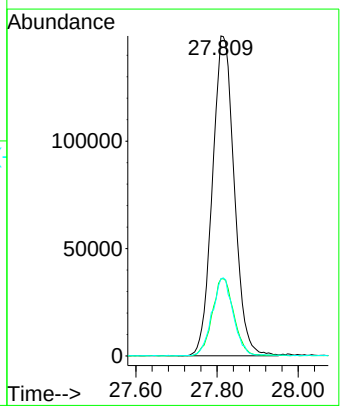
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023



#92
Benzo(g,h,i)perylene
Concen: 4.642 ng
RT: 27.809 min Scan# 4169
Delta R.T. -0.024 min
Lab File: BP016394.D
Acq: 27 Jul 2023 11:37

Tgt Ion:276 Resp: 555765

Ion	Ratio	Lower	Upper
276	100		
277	24.1	19.2	28.8
138	24.2	16.1	24.1#



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP072723\
Data File : BP016395.D
Acq On : 27 Jul 2023 12:12
Operator : MA/JU
Sample : SSTDICC010
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Quant Time: Jul 27 17:35:58 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP072723.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jul 27 17:32:49 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	8.093	152	332193	20.000	ng		0.00
21) Naphthalene-d8	10.922	136	1430895	20.000	ng		0.00
39) Acenaphthene-d10	14.734	164	888395	20.000	ng		0.00
64) Phenanthrene-d10	17.498	188	1951927	20.000	ng		0.00
76) Chrysene-d12	21.592	240	1869811	20.000	ng		0.00
86) Perylene-d12	24.192	264	2170848	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.599	112	430231	21.129	ng		0.00
7) Phenol-d6	7.222	99	595344	21.331	ng		0.00
23) Nitrobenzene-d5	9.287	82	521844	20.415	ng		0.00
42) 2,4,6-Tribromophenol	16.228	330	206062	15.767	ng		0.00
45) 2-Fluorobiphenyl	13.363	172	1309794	21.137	ng		0.00
79) Terphenyl-d14	20.039	244	1956104	22.099	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.458	88	87244	10.986	ng		98
3) Pyridine	3.875	79	251132	10.747	ng		97
4) n-Nitrosodimethylamine	3.805	42	98669	11.024	ng	#	92
6) Aniline	7.416	93	367582	10.663	ng		98
8) 2-Chlorophenol	7.640	128	223300	10.459	ng		95
9) Benzaldehyde	7.240	77	187382	10.235	ng		97
10) Phenol	7.246	94	291795	10.766	ng		99
11) bis(2-Chloroethyl)ether	7.522	93	239456	10.868	ng		98
12) 1,3-Dichlorobenzene	7.975	146	243210	10.611	ng		97
13) 1,4-Dichlorobenzene	8.128	146	246000	10.581	ng		99
14) 1,2-Dichlorobenzene	8.440	146	238058	10.635	ng		99
15) Benzyl Alcohol	8.340	79	201344	10.559	ng		97
16) 2,2'-oxybis(1-Chloropr...	8.628	45	282203	11.294	ng		99
17) 2-Methylphenol	8.522	107	207426	10.619	ng		99
18) Hexachloroethane	9.169	117	89488	10.791	ng		92
19) n-Nitroso-di-n-propyla...	8.904	70	191550	10.955	ng		96
20) 3+4-Methylphenols	8.852	107	277640	10.465	ng		99
22) Acetophenone	8.934	105	376318	10.416	ng	#	97
24) Nitrobenzene	9.328	77	269110	10.250	ng		95
25) Isophorone	9.840	82	532017	10.309	ng		97
26) 2-Nitrophenol	10.034	139	81228	9.836	ng		92
27) 2,4-Dimethylphenol	10.069	122	234476	10.156	ng		99
28) bis(2-Chloroethoxy)met...	10.334	93	328379	10.388	ng		100
29) 2,4-Dichlorophenol	10.551	162	200365	9.273	ng		97
30) 1,2,4-Trichlorobenzene	10.775	180	229212	9.794	ng		99
31) Naphthalene	10.975	128	768440	10.267	ng		100
32) Benzoic acid	10.128	122	91643	11.544	ng		96
33) 4-Chloroaniline	11.098	127	336434	9.965	ng		98
34) Hexachlorobutadiene	11.216	225	129265	9.329	ng		97
35) Caprolactam	11.881	113	76300	9.662	ng		95
36) 4-Chloro-3-methylphenol	12.181	107	235298	9.797	ng		99
37) 2-Methylnaphthalene	12.575	142	553286	10.176	ng		99
38) 1-Methylnaphthalene	12.793	142	518935	10.180	ng		98
40) 1,2,4,5-Tetrachloroben...	12.916	216	260120	9.635	ng		99
41) Hexachlorocyclopentadiene	12.875	237	117444	8.662	ng		99
43) 2,4,6-Trichlorophenol	13.163	196	155366	8.969	ng		98

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP072723\
Data File : BP016395.D
Acq On : 27 Jul 2023 12:12
Operator : MA/JU
Sample : SSTDICC010
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Quant Time: Jul 27 17:35:58 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP072723.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jul 27 17:32:49 2023
Response via : Initial Calibration

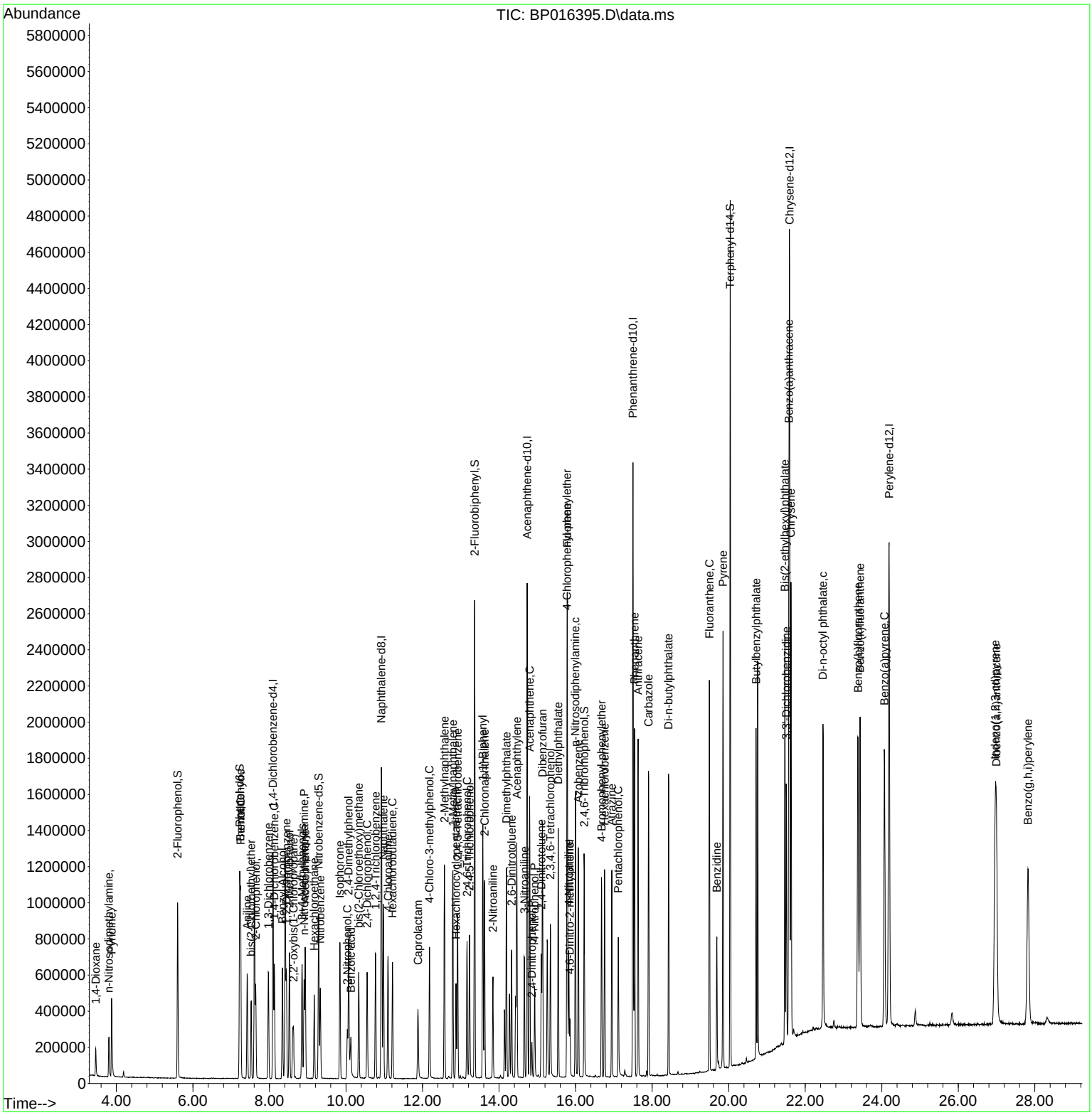
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	13.228	196	192972	9.182	ng		95
46) 1,1'-Biphenyl	13.575	154	699933	10.336	ng		99
47) 2-Chloronaphthalene	13.622	162	522744	10.232	ng		100
48) 2-Nitroaniline	13.839	65	133987	9.304	ng		98
49) Acenaphthylene	14.463	152	868820	10.249	ng		100
50) Dimethylphthalate	14.192	163	710399	10.262	ng		99
51) 2,6-Dinitrotoluene	14.328	165	133486	9.412	ng		91
52) Acenaphthene	14.798	154	518451	10.285	ng		98
53) 3-Nitroaniline	14.663	138	150479	9.385	ng	#	90
54) 2,4-Dinitrophenol	14.857	184	35252	12.783	ng		92
55) Dibenzofuran	15.134	168	849213	10.272	ng		97
56) 4-Nitrophenol	14.928	139	115825	9.228	ng		88
57) 2,4-Dinitrotoluene	15.104	165	161086	8.715	ng		89
58) Fluorene	15.781	166	677858	10.436	ng		99
59) 2,3,4,6-Tetrachlorophenol	15.339	232	155916	9.019	ng	#	92
60) Diethylphthalate	15.545	149	704127	10.235	ng		98
61) 4-Chlorophenyl-phenyle...	15.775	204	329777	10.062	ng		95
62) 4-Nitroaniline	15.822	138	150115	9.434	ng		92
63) Azobenzene	16.069	77	699904	10.774	ng		93
65) 4,6-Dinitro-2-methylph...	15.851	198	54475	11.479	ng		83
66) n-Nitrosodiphenylamine	15.992	169	589506	10.248	ng		100
67) 4-Bromophenyl-phenylether	16.681	248	191347	9.258	ng	#	93
68) Hexachlorobenzene	16.757	284	215092	9.332	ng	#	91
69) Atrazine	16.945	200	175009	10.230	ng		96
70) Pentachlorophenol	17.116	266	125761	7.885	ng		93
71) Phenanthrene	17.539	178	1081042	10.430	ng		100
72) Anthracene	17.633	178	1064626	10.215	ng		99
73) Carbazole	17.904	167	1011979	10.357	ng		100
74) Di-n-butylphthalate	18.427	149	1136892	10.057	ng		99
75) Fluoranthene	19.498	202	1211063	9.969	ng		98
77) Benzidine	19.692	184	382172	11.789	ng		99
78) Pyrene	19.851	202	1292993	10.316	ng		99
80) Butylbenzylphthalate	20.716	149	471642	9.578	ng		91
81) Benzo(a)anthracene	21.574	228	1289623	10.280	ng		98
82) 3,3'-Dichlorobenzidine	21.504	252	392282	9.525	ng	#	97
83) Chrysene	21.627	228	1244950	10.392	ng		98
84) Bis(2-ethylhexyl)phtha...	21.469	149	737348	9.974	ng		97
85) Di-n-octyl phthalate	22.463	149	1224013	9.844	ng	#	96
87) Indeno(1,2,3-cd)pyrene	26.962	276	1455940	9.948	ng	#	95
88) Benzo(b)fluoranthene	23.380	252	1219111	9.689	ng	#	97
89) Benzo(k)fluoranthene	23.433	252	1295252	10.121	ng	#	98
90) Benzo(a)pyrene	24.068	252	1189402	9.758	ng	#	98
91) Dibenzo(a,h)anthracene	26.998	278	1225056	10.037	ng		97
92) Benzo(g,h,i)perylene	27.821	276	1187615	10.097	ng		96

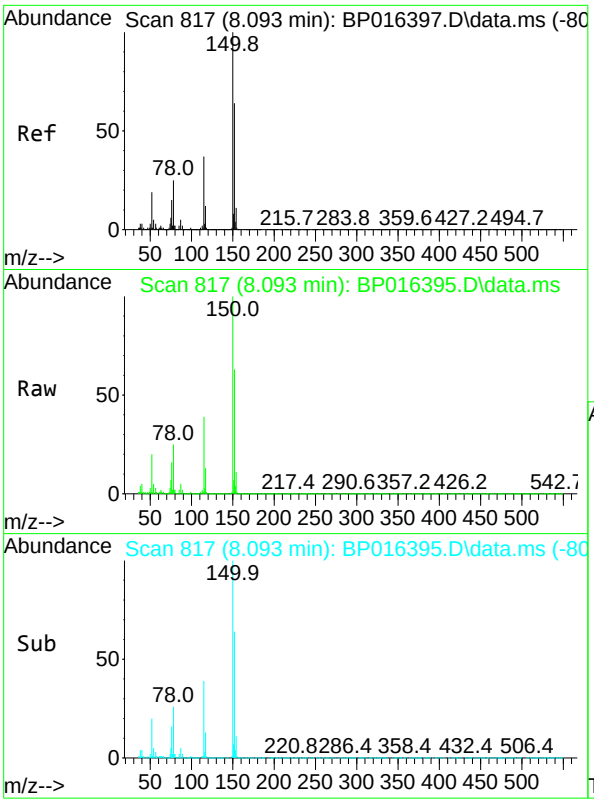
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP072723\
Data File : BP016395.D
Acq On : 27 Jul 2023 12:12
Operator : MA/JU
Sample : SSTDICC010
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Quant Time: Jul 27 17:35:58 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP072723.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jul 27 17:32:49 2023
Response via : Initial Calibration



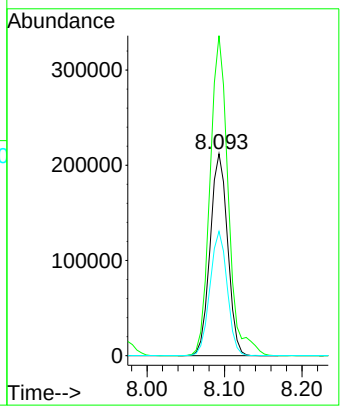


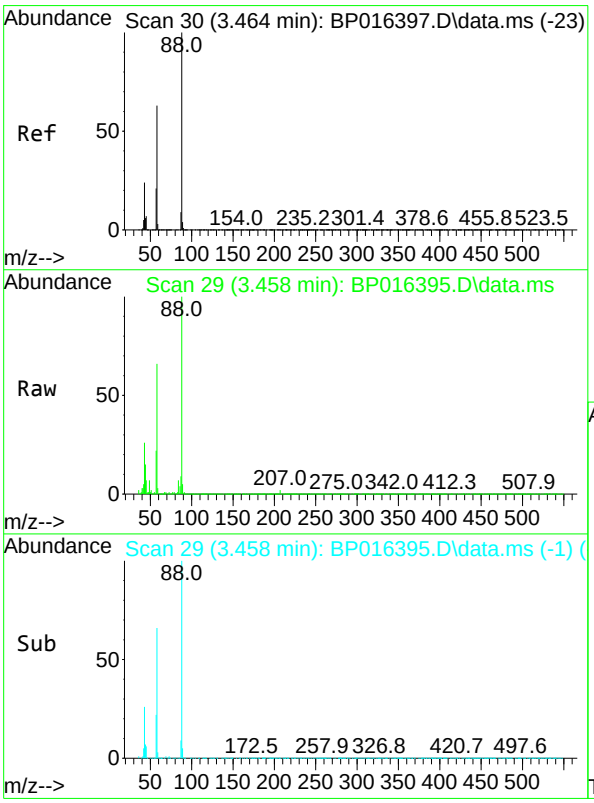
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.093 min Scan# 81
Delta R.T. -0.000 min
Lab File: BP016395.D
Acq: 27 Jul 2023 12:12

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:152 Resp: 332193

Ion	Ratio	Lower	Upper
152	100		
150	158.5	124.9	187.3
115	61.6	46.8	70.2

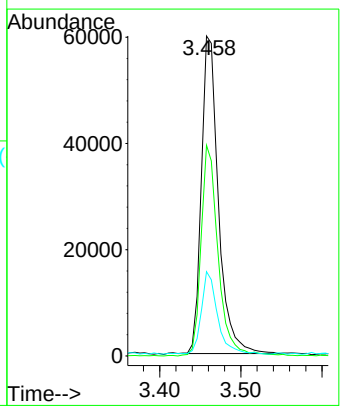


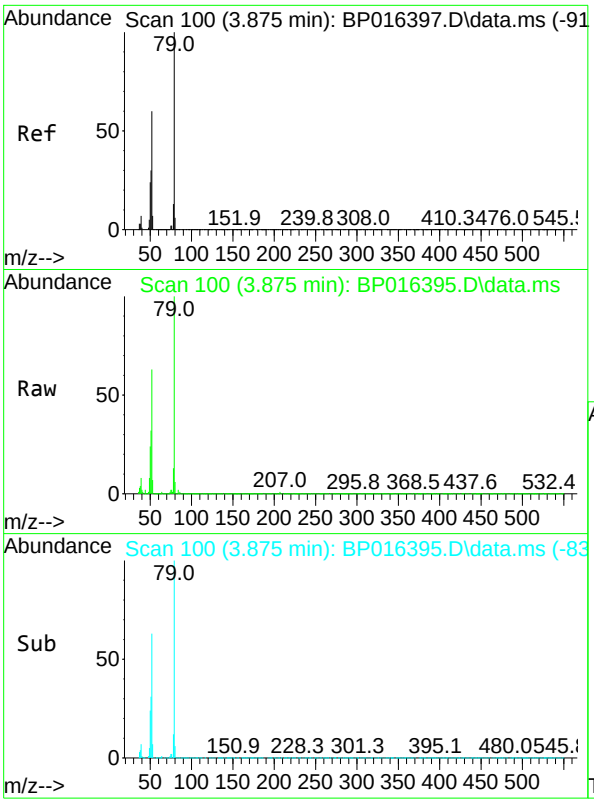


#2
1,4-Dioxane
Concen: 10.986 ng
RT: 3.458 min Scan# 29
Delta R.T. -0.006 min
Lab File: BP016395.D
Acq: 27 Jul 2023 12:12

Tgt Ion: 88 Resp: 87244

Ion	Ratio	Lower	Upper
88	100		
58	66.4	51.7	77.5
43	24.5	19.2	28.8



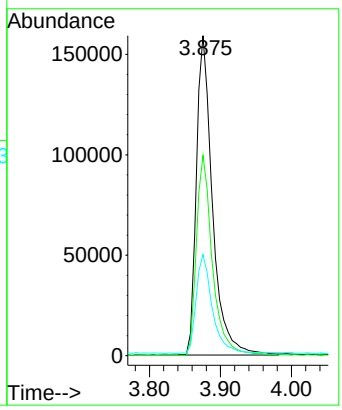


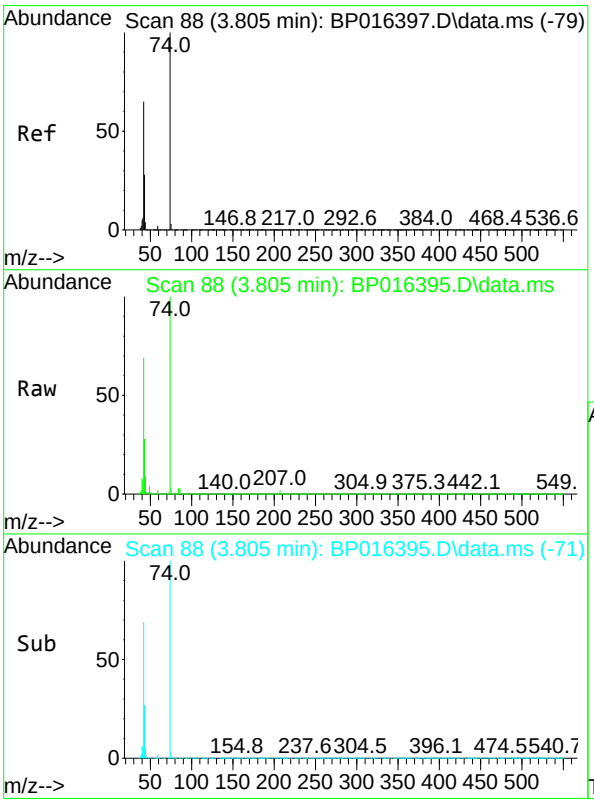
#3
Pyridine
Concen: 10.747 ng
RT: 3.875 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP016395.D
Acq: 27 Jul 2023 12:12

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion: 79 Resp: 251132

Ion	Ratio	Lower	Upper
79	100		
52	62.6	47.9	71.9
51	31.6	24.4	36.6

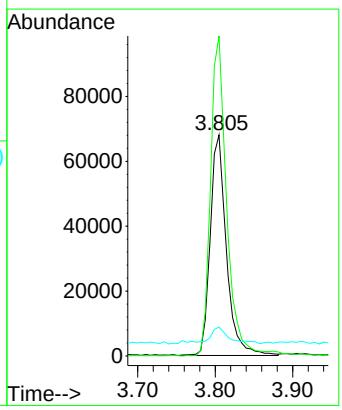


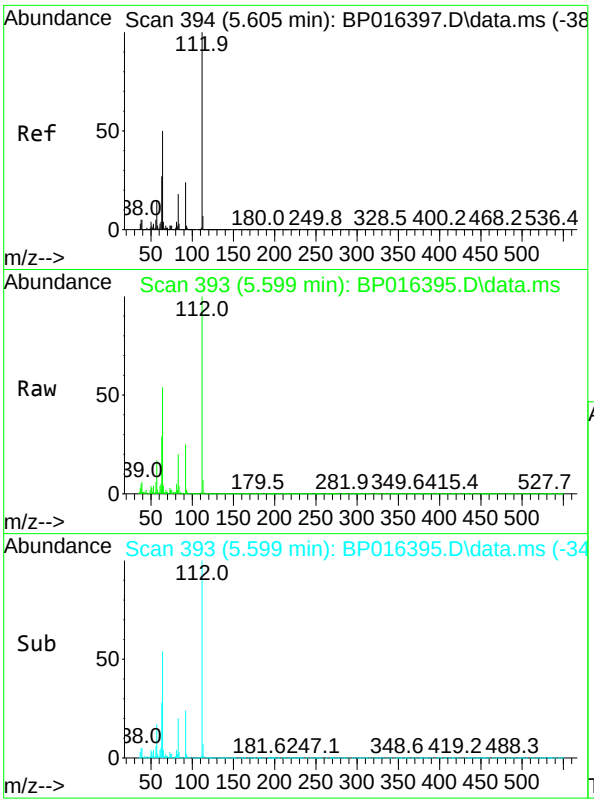


#4
n-Nitrosodimethylamine
Concen: 11.024 ng
RT: 3.805 min Scan# 88
Delta R.T. -0.000 min
Lab File: BP016395.D
Acq: 27 Jul 2023 12:12

Tgt Ion: 42 Resp: 98669

Ion	Ratio	Lower	Upper
42	100		
74	144.8	123.8	185.8
44	13.0	5.5	8.3#



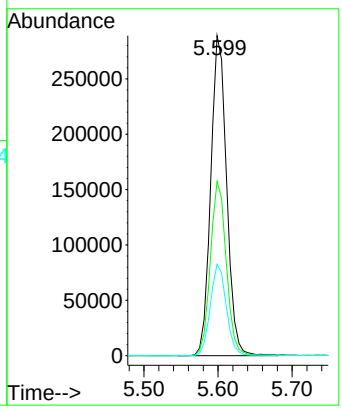


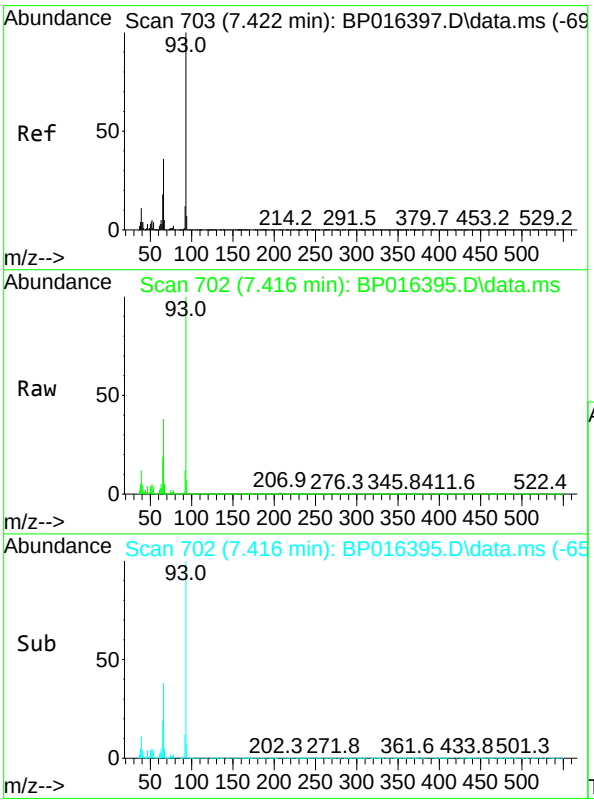
#5
2-Fluorophenol
Concen: 21.129 ng
RT: 5.599 min Scan# 3
Delta R.T. -0.006 min
Lab File: BP016395.D
Acq: 27 Jul 2023 12:12

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:112 Resp: 430231

Ion	Ratio	Lower	Upper
112	100		
64	54.5	40.0	60.0
63	28.5	21.2	31.8

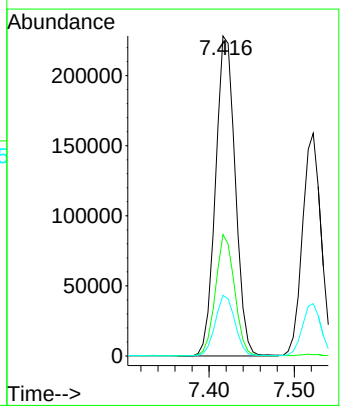


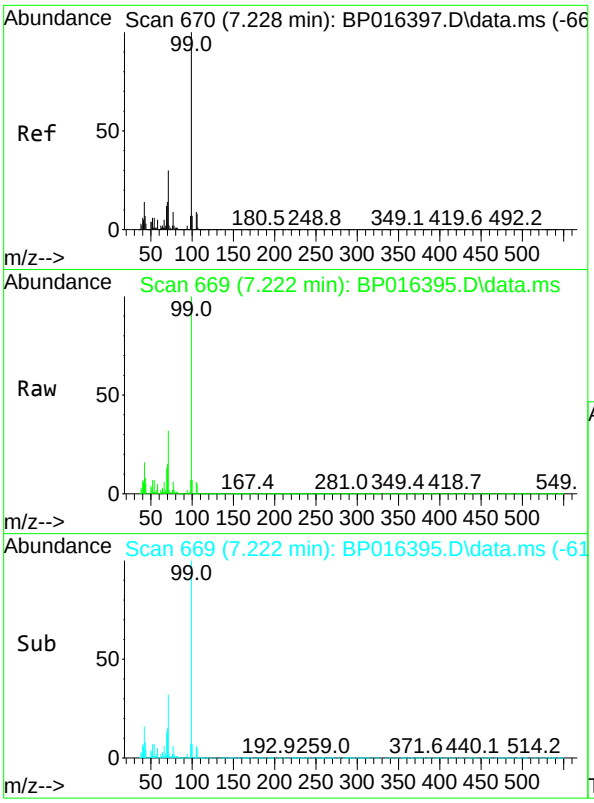


#6
Aniline
Concen: 10.663 ng
RT: 7.416 min Scan# 702
Delta R.T. -0.006 min
Lab File: BP016395.D
Acq: 27 Jul 2023 12:12

Tgt Ion: 93 Resp: 367582

Ion	Ratio	Lower	Upper
93	100		
66	37.9	28.9	43.3
65	18.9	14.7	22.1



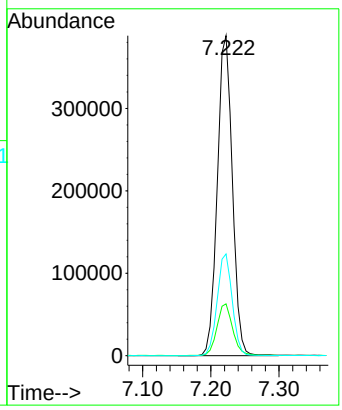


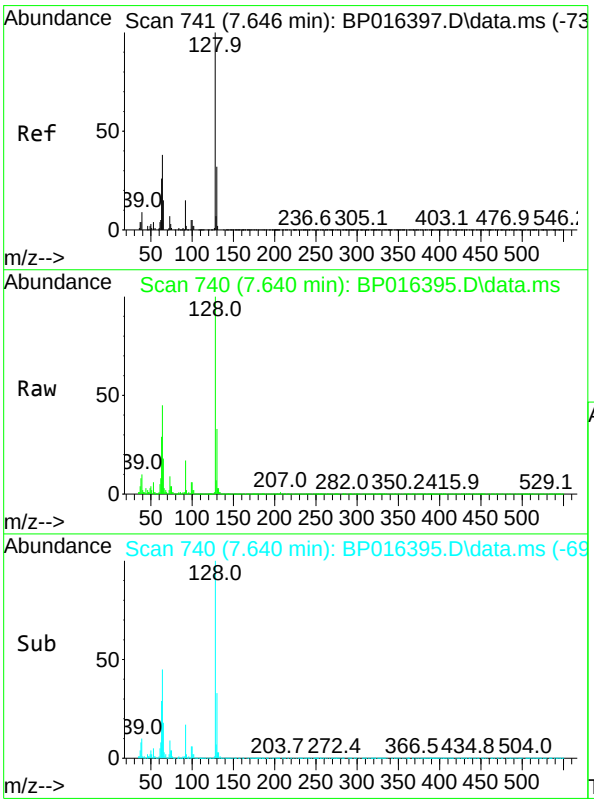
#7
Phenol-d6
Concen: 21.331 ng
RT: 7.222 min Scan# 6
Delta R.T. -0.006 min
Lab File: BP016395.D
Acq: 27 Jul 2023 12:12

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion: 99 Resp: 595344

Ion	Ratio	Lower	Upper
99	100		
42	16.2	11.6	17.4
71	31.8	24.3	36.5

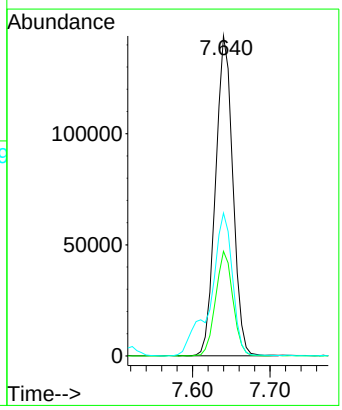


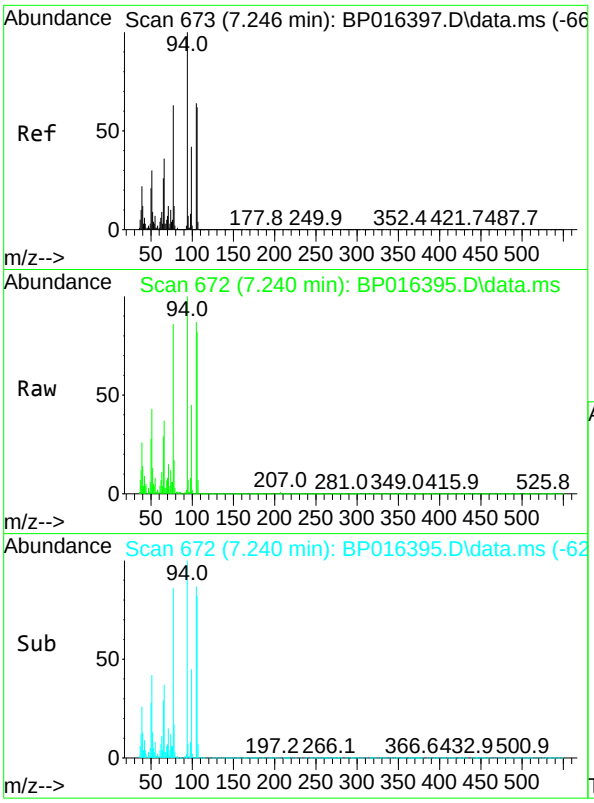


#8
2-Chlorophenol
Concen: 10.459 ng
RT: 7.640 min Scan# 740
Delta R.T. -0.006 min
Lab File: BP016395.D
Acq: 27 Jul 2023 12:12

Tgt Ion:128 Resp: 223300

Ion	Ratio	Lower	Upper
128	100		
130	32.7	11.6	51.6
64	44.7	20.6	60.6



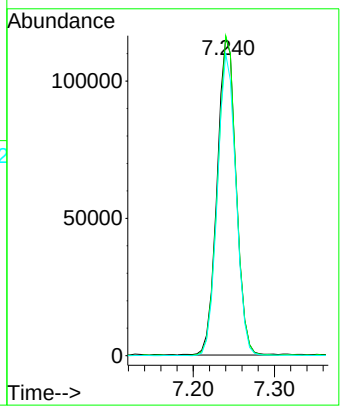


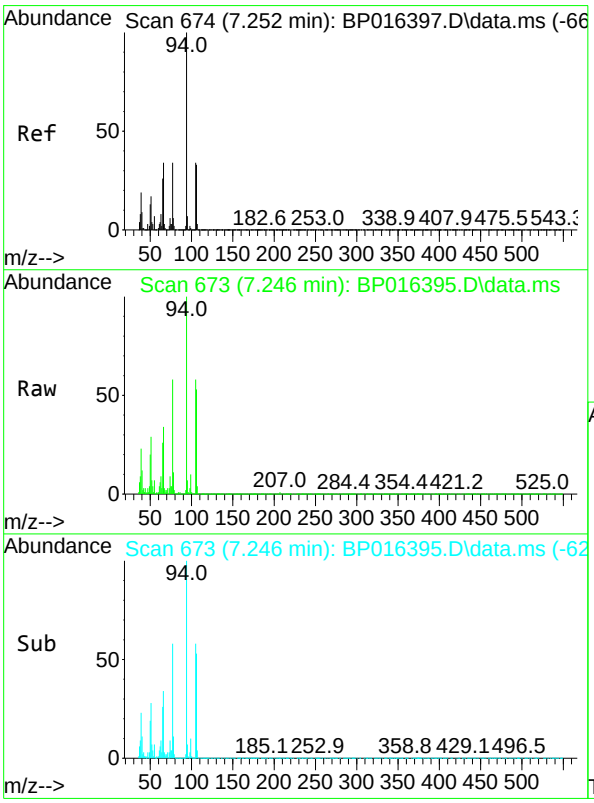
#9
Benzaldehyde
Concen: 10.235 ng
RT: 7.240 min Scan# 6
Delta R.T. -0.006 min
Lab File: BP016395.D
Acq: 27 Jul 2023 12:12

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion: 77 Resp: 187382

Ion	Ratio	Lower	Upper
77	100		
105	100.5	81.9	121.9
106	94.8	78.8	118.8

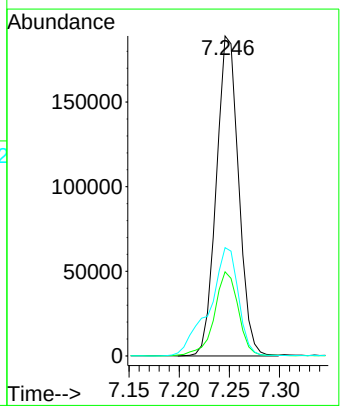


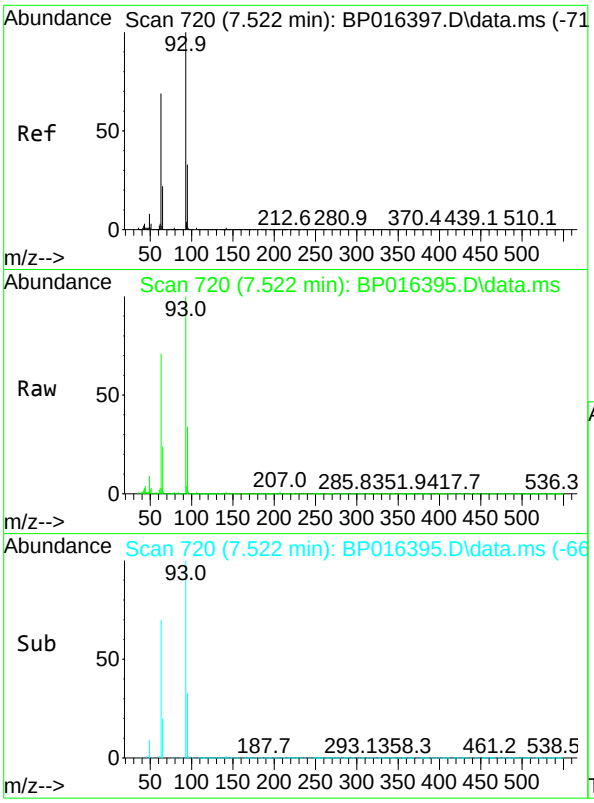


#10
Phenol
Concen: 10.766 ng
RT: 7.246 min Scan# 673
Delta R.T. -0.006 min
Lab File: BP016395.D
Acq: 27 Jul 2023 12:12

Tgt Ion: 94 Resp: 291795

Ion	Ratio	Lower	Upper
94	100		
65	26.3	5.9	45.9
66	33.8	14.3	54.3



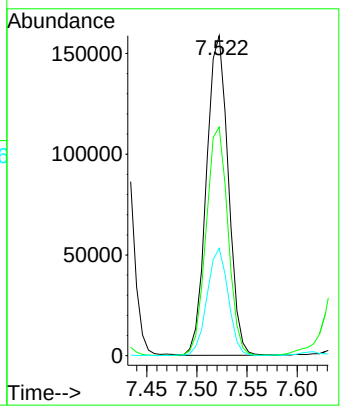


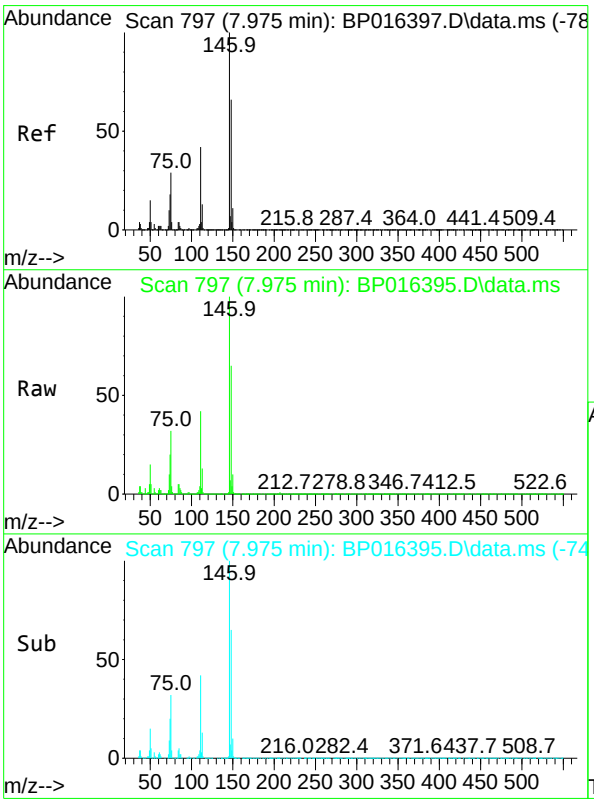
#11
bis(2-Chloroethyl)ether
Concen: 10.868 ng
RT: 7.522 min Scan# 7
Delta R.T. -0.000 min
Lab File: BP016395.D
Acq: 27 Jul 2023 12:12

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion: 93 Resp: 239456

Ion	Ratio	Lower	Upper
93	100		
63	71.4	49.4	89.4
95	33.5	12.9	52.9

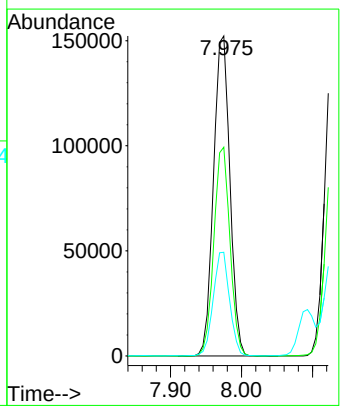


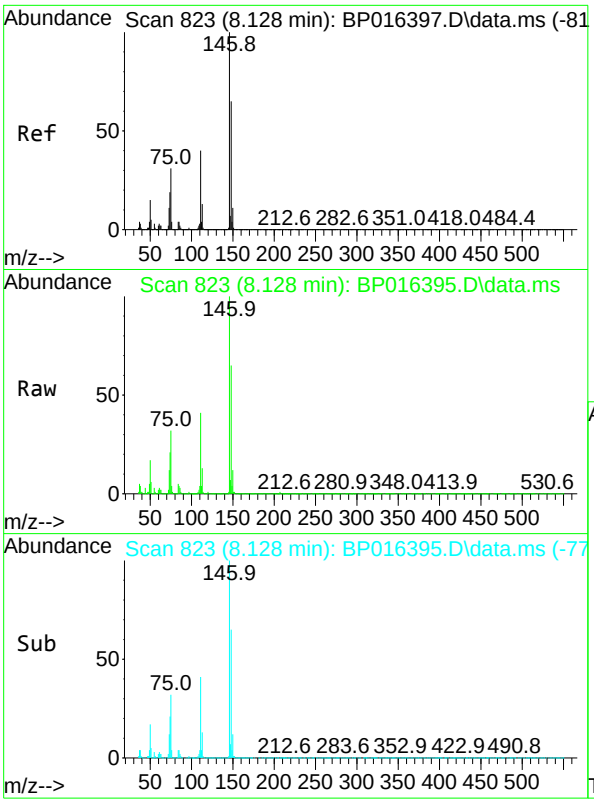


#12
1,3-Dichlorobenzene
Concen: 10.611 ng
RT: 7.975 min Scan# 797
Delta R.T. -0.000 min
Lab File: BP016395.D
Acq: 27 Jul 2023 12:12

Tgt Ion:146 Resp: 243210

Ion	Ratio	Lower	Upper
146	100		
148	65.2	53.0	79.4
75	32.4	23.4	35.2



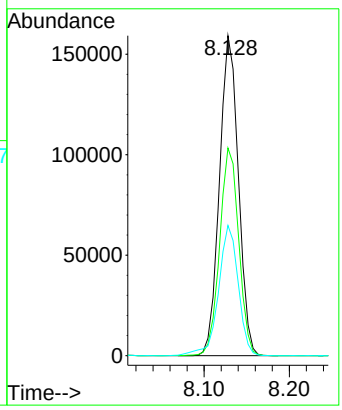


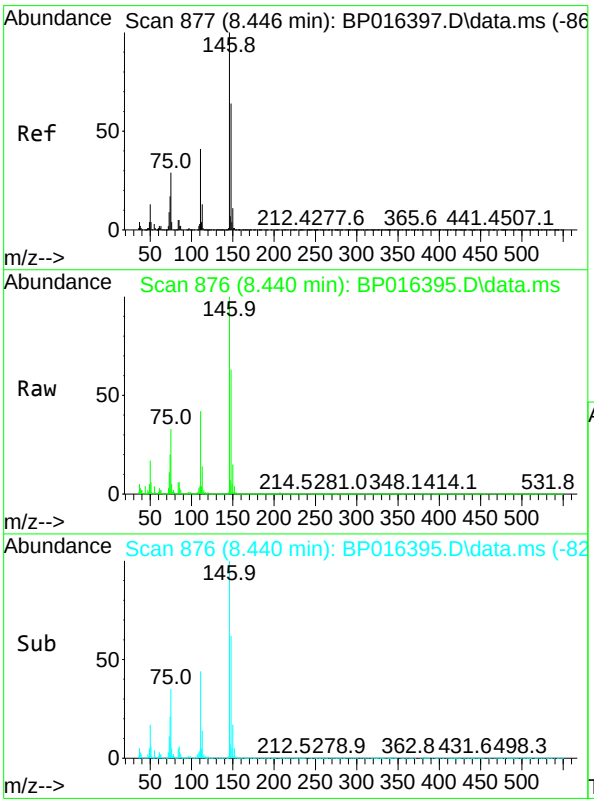
#13
1,4-Dichlorobenzene
Concen: 10.581 ng
RT: 8.128 min Scan# 8
Delta R.T. -0.000 min
Lab File: BP016395.D
Acq: 27 Jul 2023 12:12

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:146 Resp: 246000

Ion	Ratio	Lower	Upper
146	100		
148	64.9	51.7	77.5
111	40.7	32.0	48.0

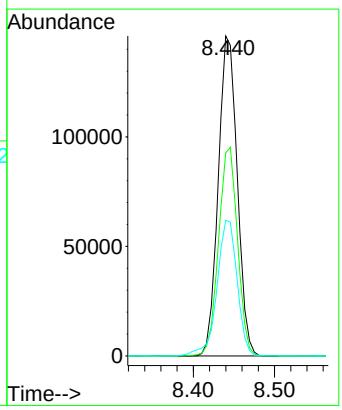


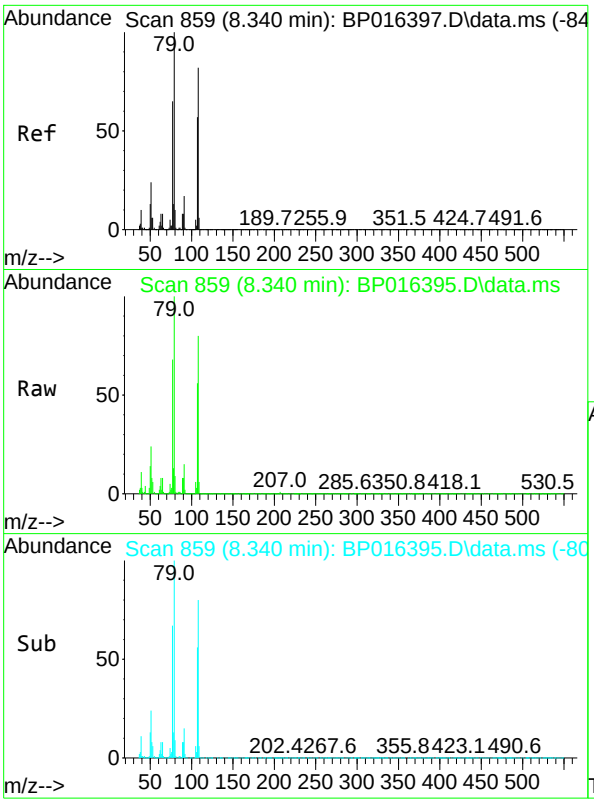


#14
1,2-Dichlorobenzene
Concen: 10.635 ng
RT: 8.440 min Scan# 876
Delta R.T. -0.006 min
Lab File: BP016395.D
Acq: 27 Jul 2023 12:12

Tgt Ion:146 Resp: 238058

Ion	Ratio	Lower	Upper
146	100		
148	63.5	51.0	76.6
111	42.4	32.6	49.0



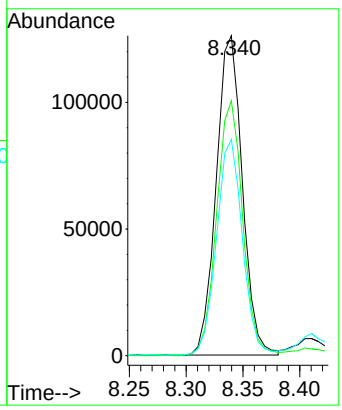


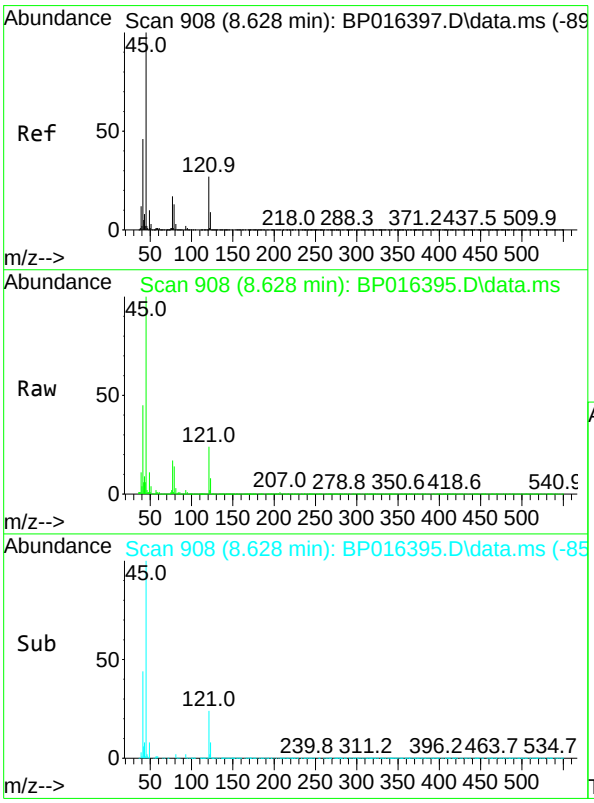
#15
Benzyl Alcohol
Concen: 10.559 ng
RT: 8.340 min Scan# 8
Delta R.T. -0.000 min
Lab File: BP016395.D
Acq: 27 Jul 2023 12:12

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion: 79 Resp: 201344

Ion	Ratio	Lower	Upper
79	100		
108	79.6	65.4	98.2
77	67.6	51.8	77.8

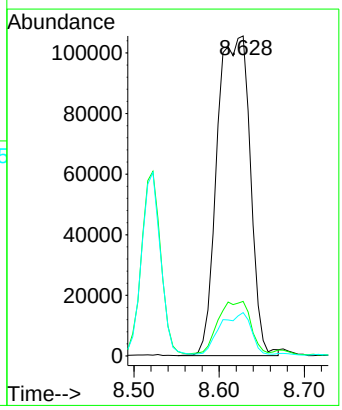


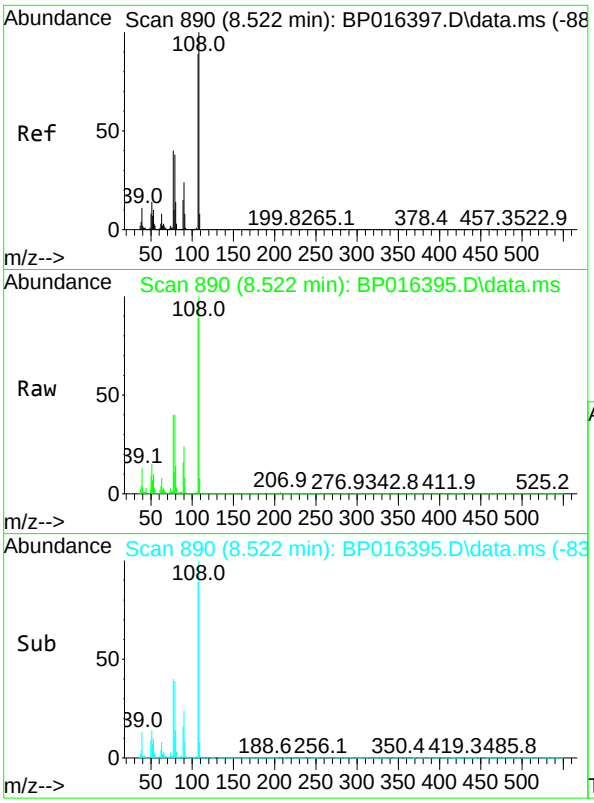


#16
2,2'-oxybis(1-Chloropropane)
Concen: 11.294 ng
RT: 8.628 min Scan# 908
Delta R.T. -0.000 min
Lab File: BP016395.D
Acq: 27 Jul 2023 12:12

Tgt Ion: 45 Resp: 282203

Ion	Ratio	Lower	Upper
45	100		
77	17.1	0.0	37.3
79	13.6	0.0	33.3



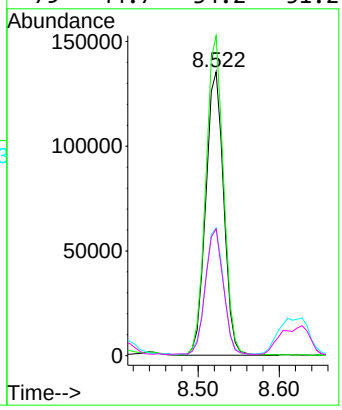


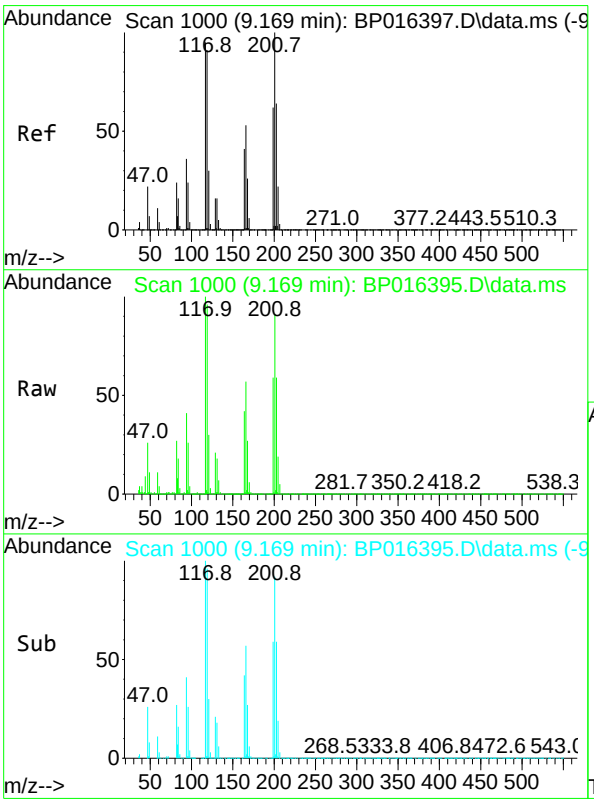
#17
2-Methylphenol
Concen: 10.619 ng
RT: 8.522 min Scan# 8
Delta R.T. -0.000 min
Lab File: BP016395.D
Acq: 27 Jul 2023 12:12

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:107 Resp: 207426

Ion	Ratio	Lower	Upper
107	100		
108	112.8	89.6	134.4
77	45.0	35.6	53.4
79	44.7	34.2	51.2

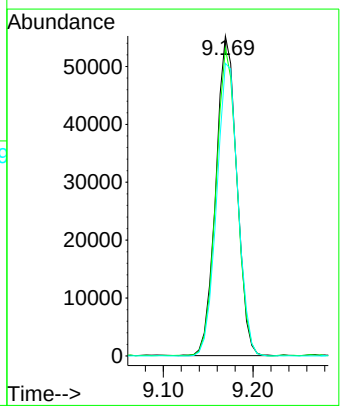


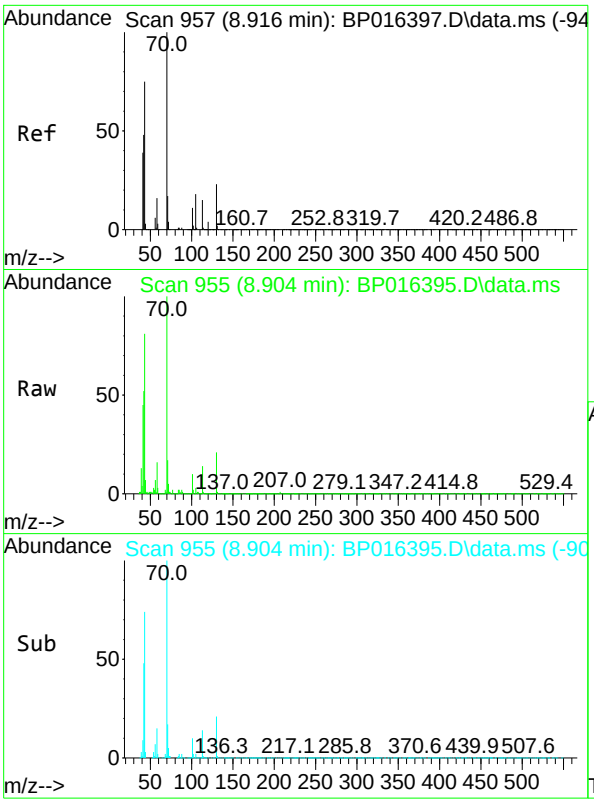


#18
Hexachloroethane
Concen: 10.791 ng
RT: 9.169 min Scan# 1000
Delta R.T. -0.000 min
Lab File: BP016395.D
Acq: 27 Jul 2023 12:12

Tgt Ion:117 Resp: 89488

Ion	Ratio	Lower	Upper
117	100		
119	96.2	76.9	115.3
201	91.5	86.2	129.4



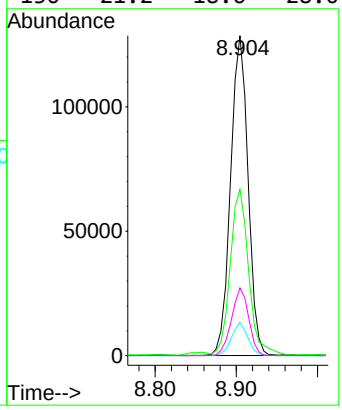


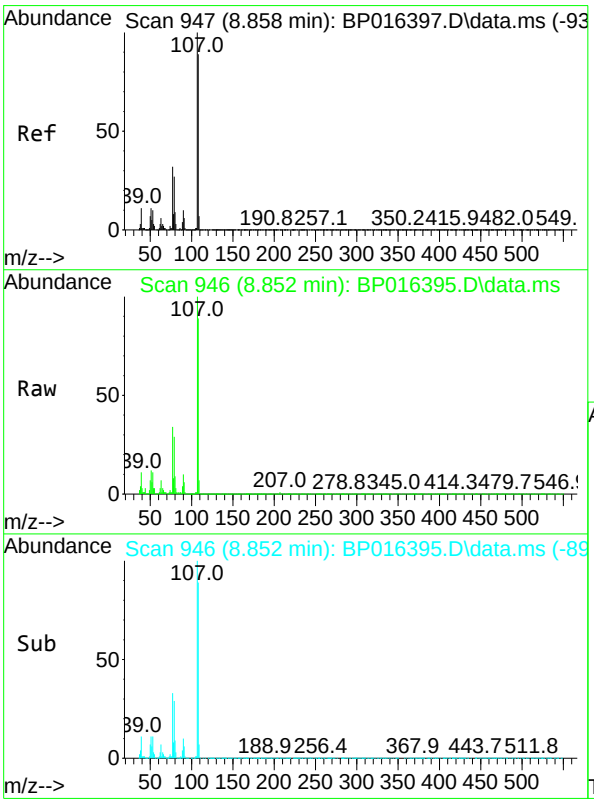
#19
n-Nitroso-di-n-propylamine
Concen: 10.955 ng
RT: 8.904 min Scan# 9
Delta R.T. -0.012 min
Lab File: BP016395.D
Acq: 27 Jul 2023 12:12

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion: 70 Resp: 191550

Ion	Ratio	Lower	Upper
70	100		
42	52.0	39.3	58.9
101	10.4	8.6	12.8
130	21.2	18.6	28.0

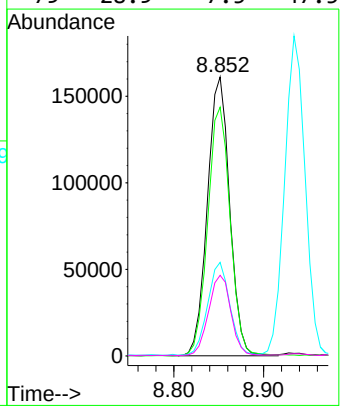


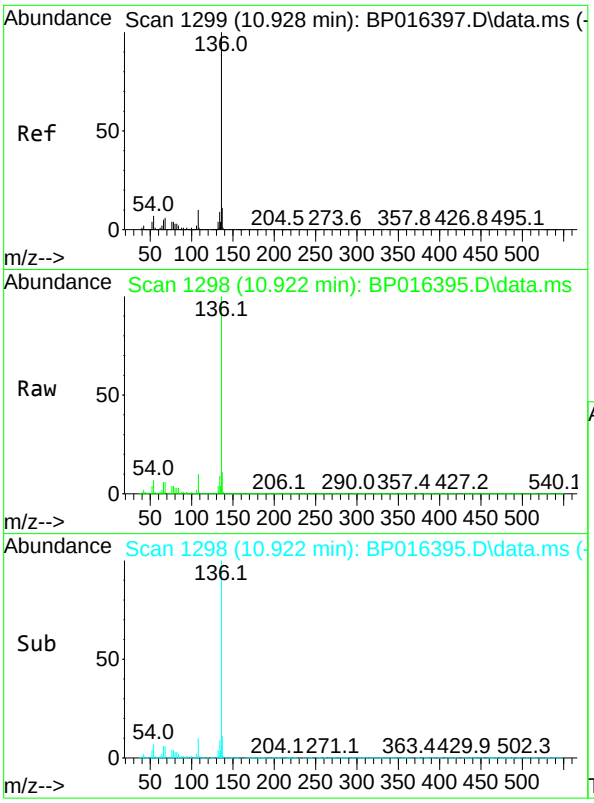


#20
3+4-Methylphenols
Concen: 10.465 ng
RT: 8.852 min Scan# 946
Delta R.T. -0.006 min
Lab File: BP016395.D
Acq: 27 Jul 2023 12:12

Tgt Ion:107 Resp: 277640

Ion	Ratio	Lower	Upper
107	100		
108	89.1	69.1	109.1
77	33.5	12.0	52.0
79	28.9	7.5	47.5



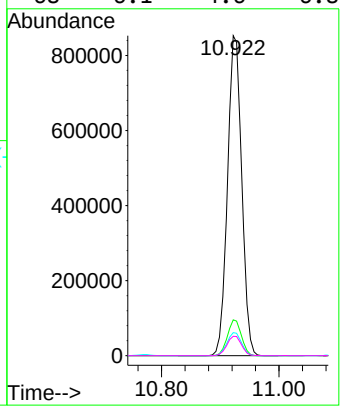


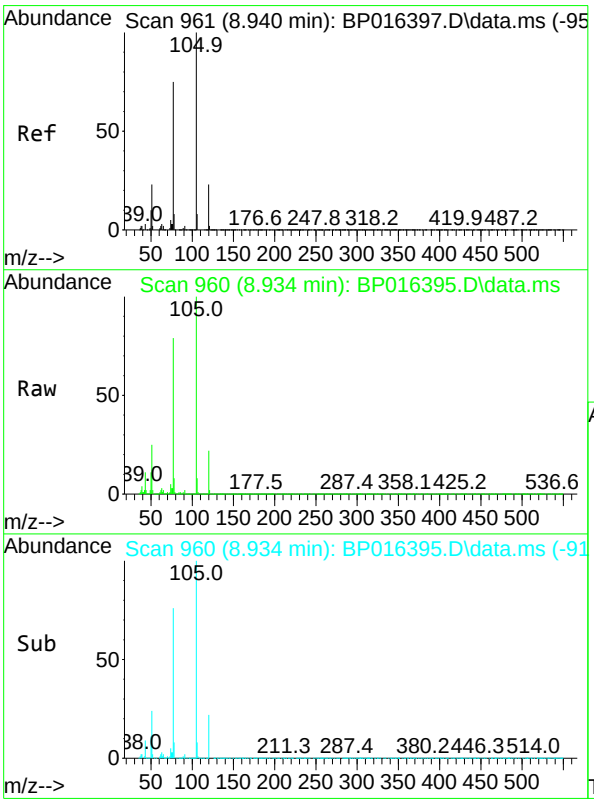
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.922 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP016395.D
Acq: 27 Jul 2023 12:12

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:136 Resp: 1430895

Ion	Ratio	Lower	Upper
136	100		
137	11.2	8.6	13.0
54	7.2	5.6	8.4
68	6.1	4.6	6.8

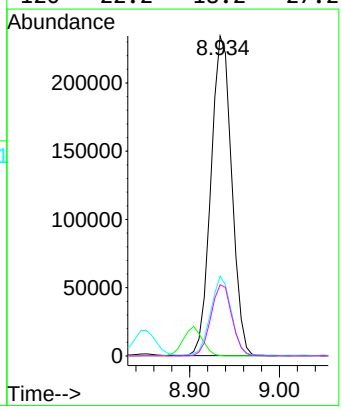


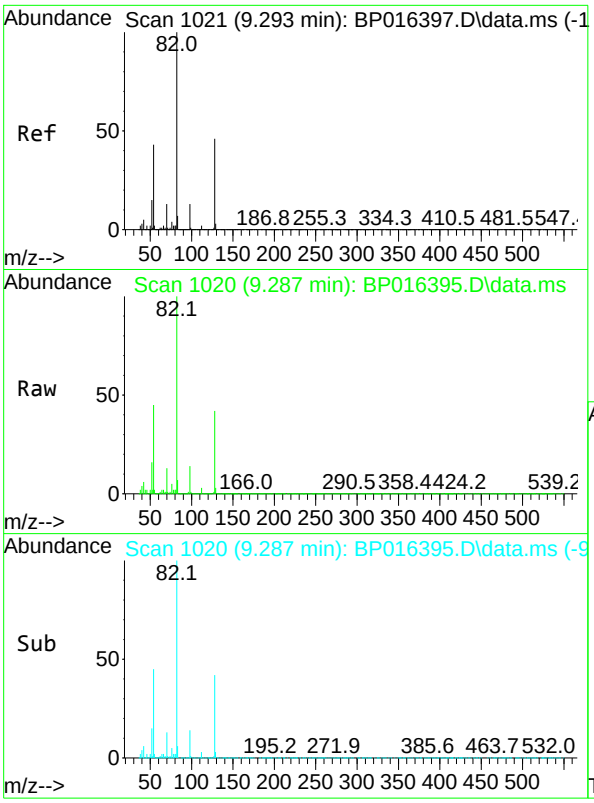


#22
Acetophenone
Concen: 10.416 ng
RT: 8.934 min Scan# 960
Delta R.T. -0.006 min
Lab File: BP016395.D
Acq: 27 Jul 2023 12:12

Tgt Ion:105 Resp: 376318

Ion	Ratio	Lower	Upper
105	100		
71	0.2	0.2	0.2#
51	25.0	18.3	27.5
120	22.2	18.2	27.2



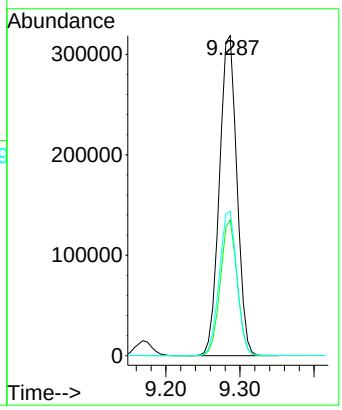


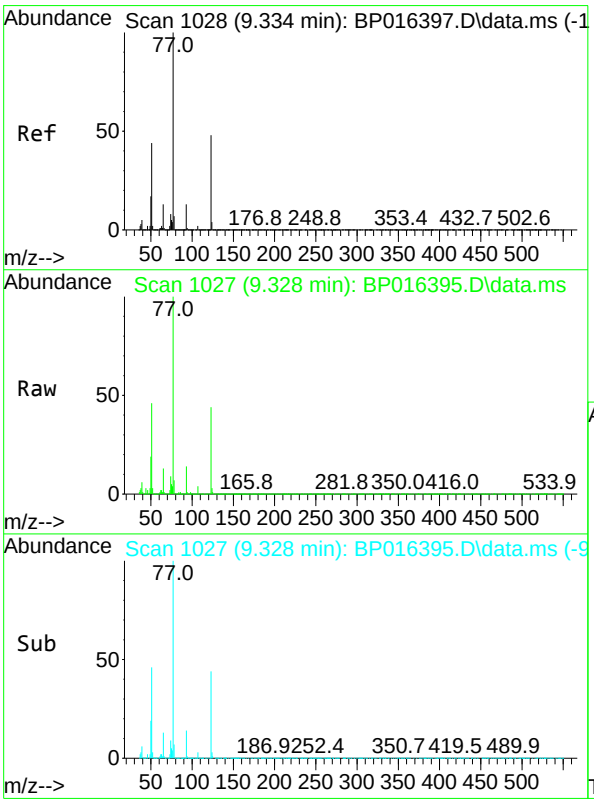
#23
Nitrobenzene-d5
Concen: 20.415 ng
RT: 9.287 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP016395.D
Acq: 27 Jul 2023 12:12

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion: 82 Resp: 521844

Ion	Ratio	Lower	Upper
82	100		
128	42.4	36.6	55.0
54	45.2	34.5	51.7

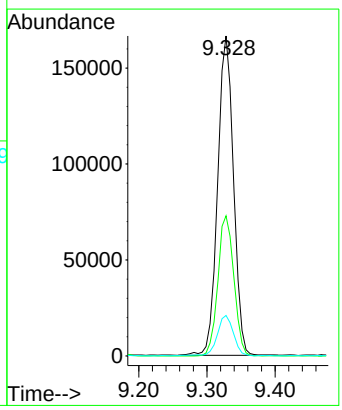


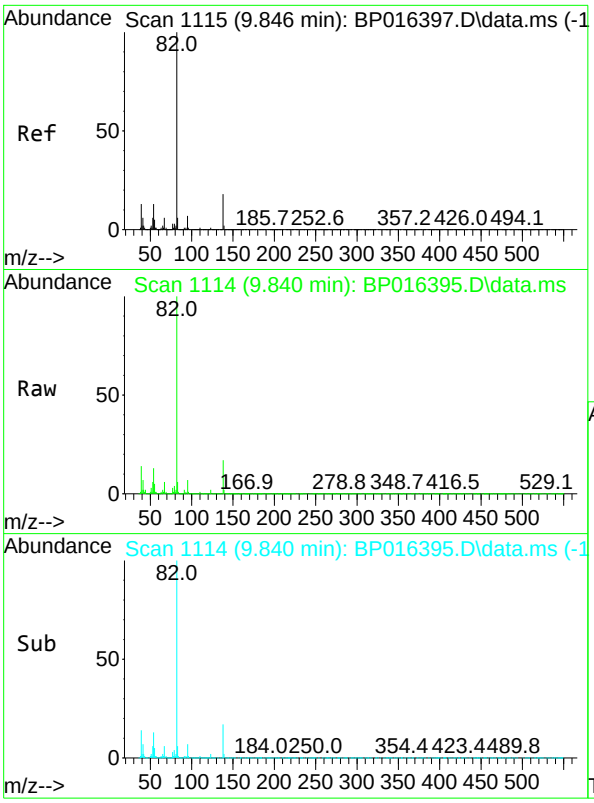


#24
Nitrobenzene
Concen: 10.250 ng
RT: 9.328 min Scan# 1027
Delta R.T. -0.006 min
Lab File: BP016395.D
Acq: 27 Jul 2023 12:12

Tgt Ion: 77 Resp: 269110

Ion	Ratio	Lower	Upper
77	100		
123	43.8	38.6	58.0
65	12.6	10.5	15.7



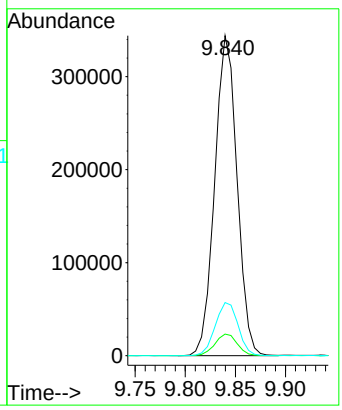


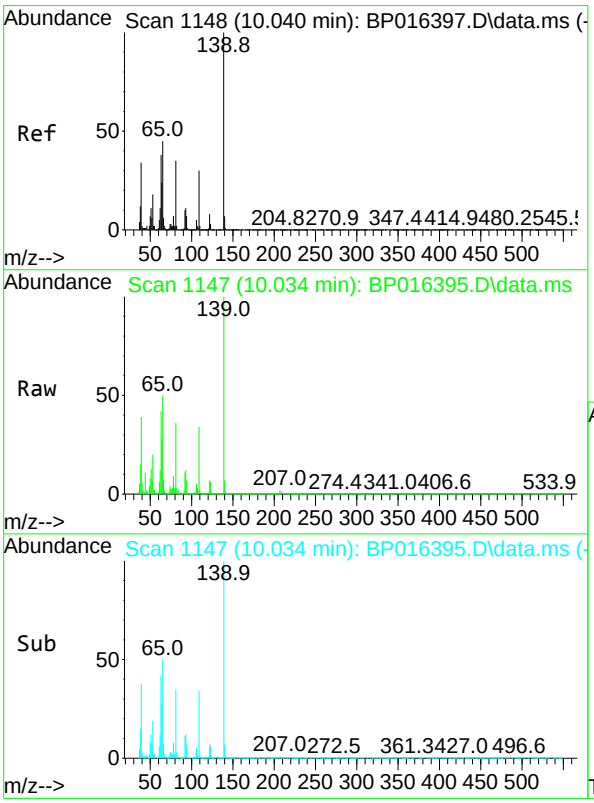
#25
Isophorone
Concen: 10.309 ng
RT: 9.840 min Scan# 11
Delta R.T. -0.006 min
Lab File: BP016395.D
Acq: 27 Jul 2023 12:12

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion: 82 Resp: 532017

Ion	Ratio	Lower	Upper
82	100		
95	6.7	5.7	8.5
138	16.6	14.6	22.0

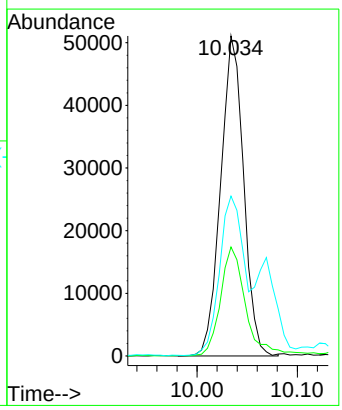


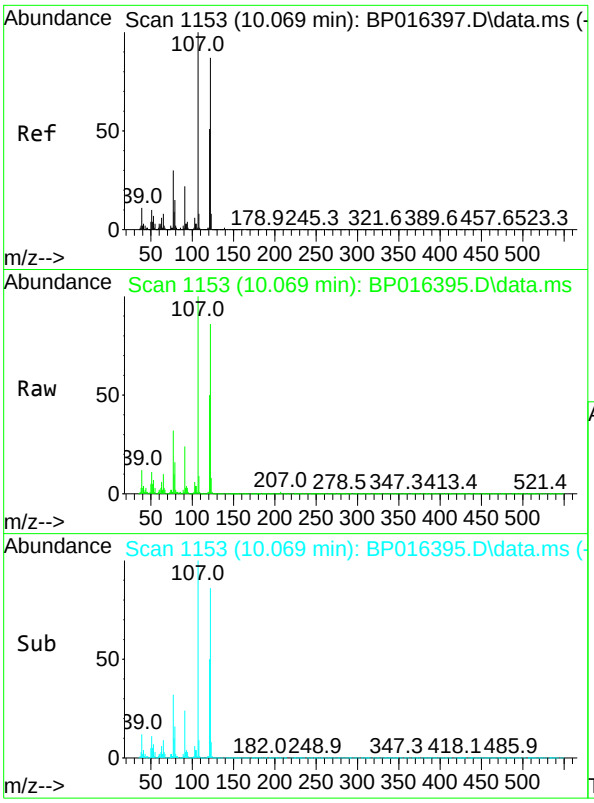


#26
2-Nitrophenol
Concen: 9.836 ng
RT: 10.034 min Scan# 1147
Delta R.T. -0.006 min
Lab File: BP016395.D
Acq: 27 Jul 2023 12:12

Tgt Ion:139 Resp: 81228

Ion	Ratio	Lower	Upper
139	100		
109	34.0	24.2	36.4
65	49.9	35.8	53.6



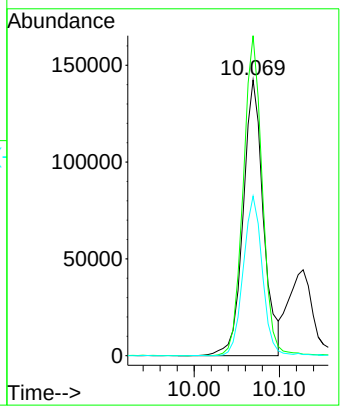


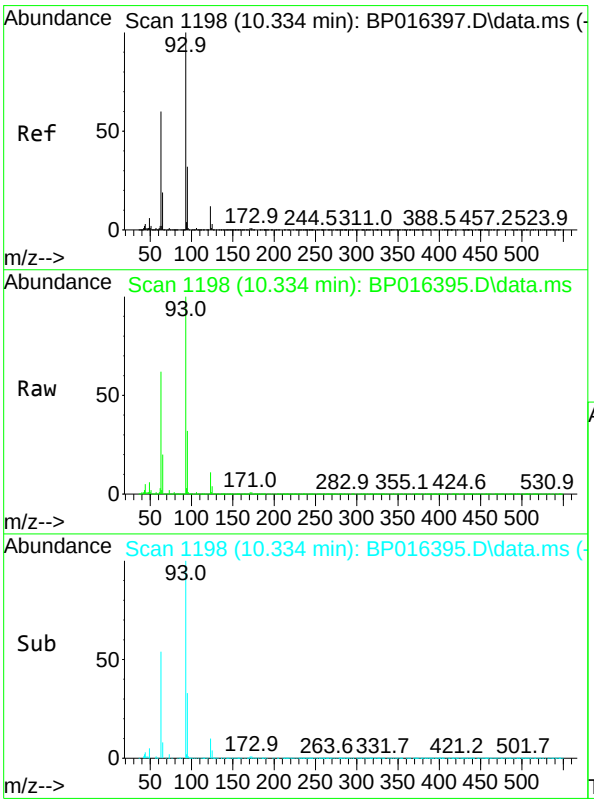
#27
2,4-Dimethylphenol
Concen: 10.156 ng
RT: 10.069 min Scan# 11
Delta R.T. -0.000 min
Lab File: BP016395.D
Acq: 27 Jul 2023 12:12

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:122 Resp: 234476

Ion	Ratio	Lower	Upper
122	100		
107	116.0	91.9	137.9
121	57.9	47.2	70.8

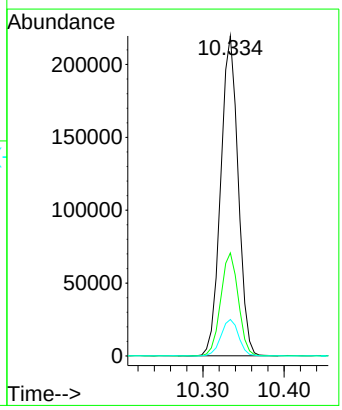


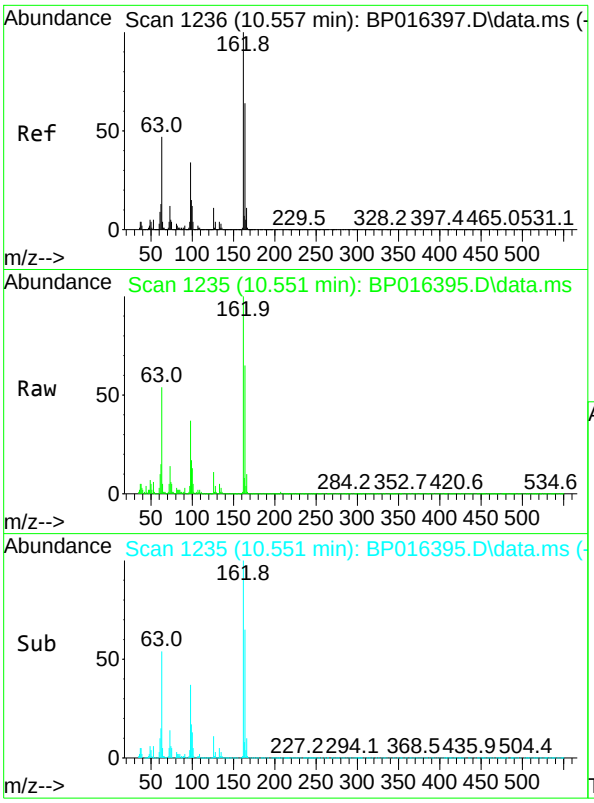


#28
bis(2-Chloroethoxy)methane
Concen: 10.388 ng
RT: 10.334 min Scan# 1198
Delta R.T. -0.000 min
Lab File: BP016395.D
Acq: 27 Jul 2023 12:12

Tgt Ion: 93 Resp: 328379

Ion	Ratio	Lower	Upper
93	100		
95	32.2	25.8	38.8
123	11.4	9.4	14.0



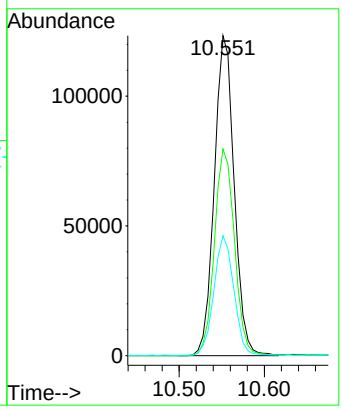


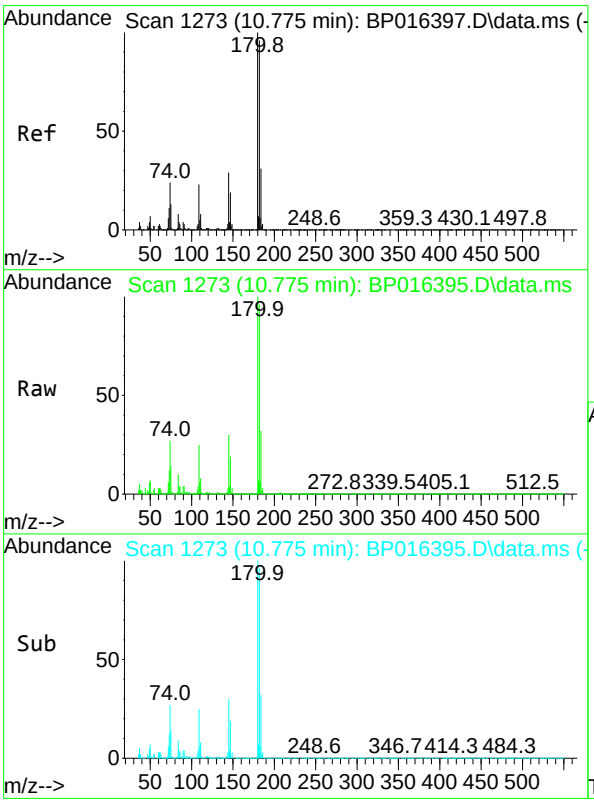
#29
2,4-Dichlorophenol
Concen: 9.273 ng
RT: 10.551 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP016395.D
Acq: 27 Jul 2023 12:12

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:162 Resp: 200365

Ion	Ratio	Lower	Upper
162	100		
164	64.6	44.2	84.2
98	37.5	13.7	53.7

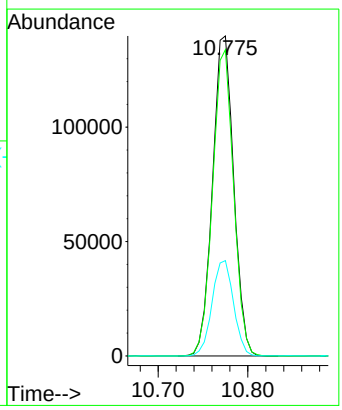


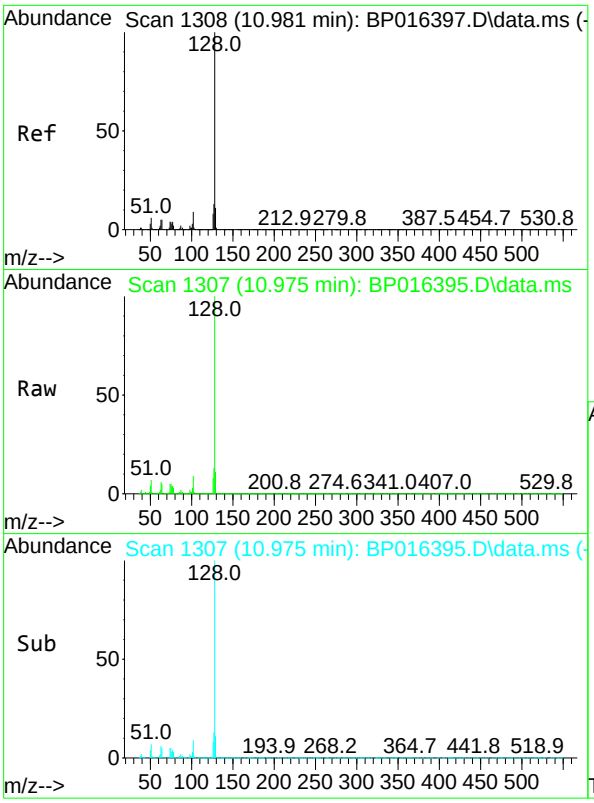


#30
1,2,4-Trichlorobenzene
Concen: 9.794 ng
RT: 10.775 min Scan# 1273
Delta R.T. -0.000 min
Lab File: BP016395.D
Acq: 27 Jul 2023 12:12

Tgt Ion:180 Resp: 229212

Ion	Ratio	Lower	Upper
180	100		
182	95.7	77.1	115.7
145	29.8	22.9	34.3



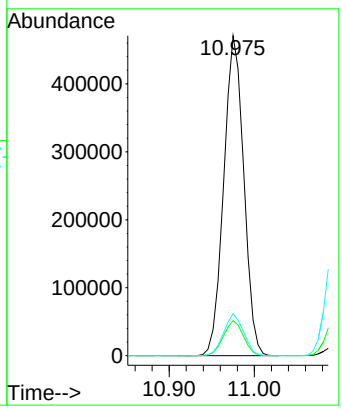


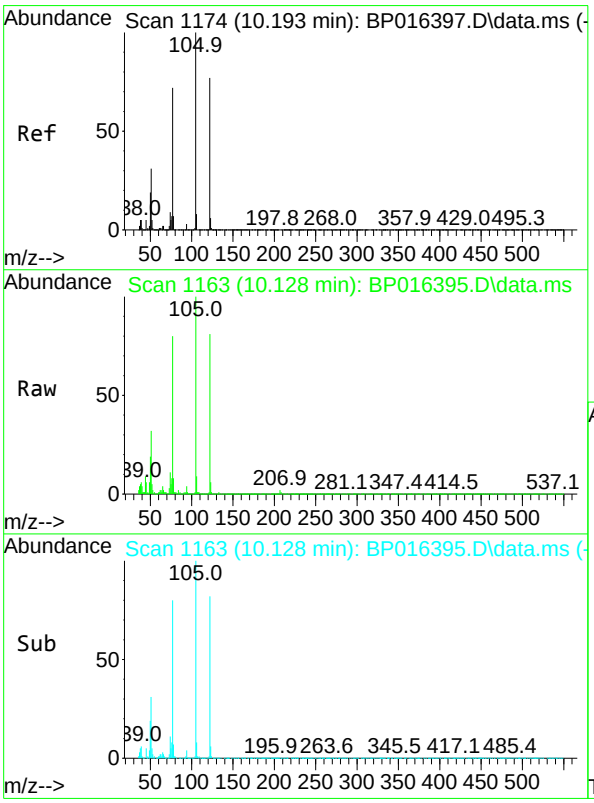
#31
Naphthalene
Concen: 10.267 ng
RT: 10.975 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP016395.D
Acq: 27 Jul 2023 12:12

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:128 Resp: 768440

Ion	Ratio	Lower	Upper
128	100		
129	10.9	8.6	12.8
127	13.1	10.4	15.6

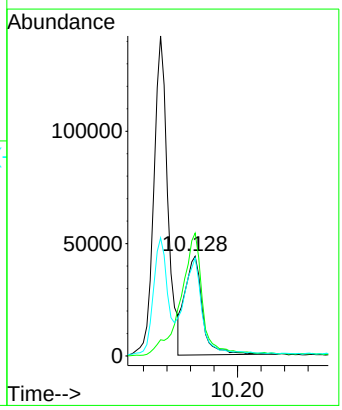


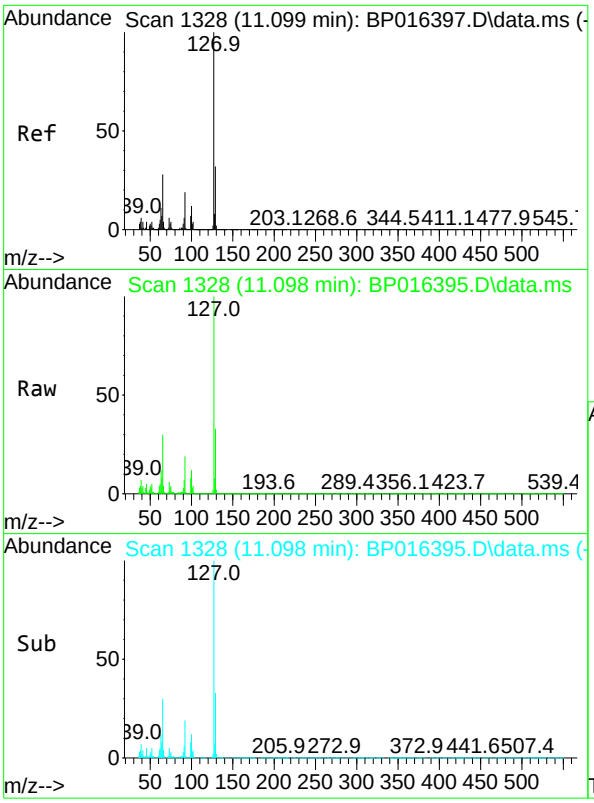


#32
Benzoic acid
Concen: 11.544 ng
RT: 10.128 min Scan# 1163
Delta R.T. -0.065 min
Lab File: BP016395.D
Acq: 27 Jul 2023 12:12

Tgt Ion:122 Resp: 91643

Ion	Ratio	Lower	Upper
122	100		
105	123.3	105.2	145.2
77	98.5	72.2	112.2



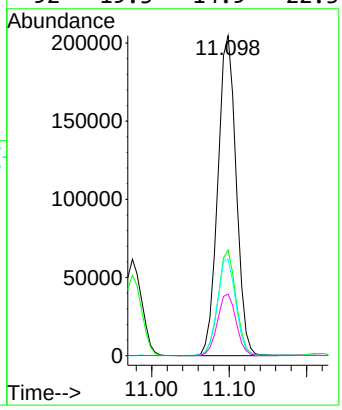


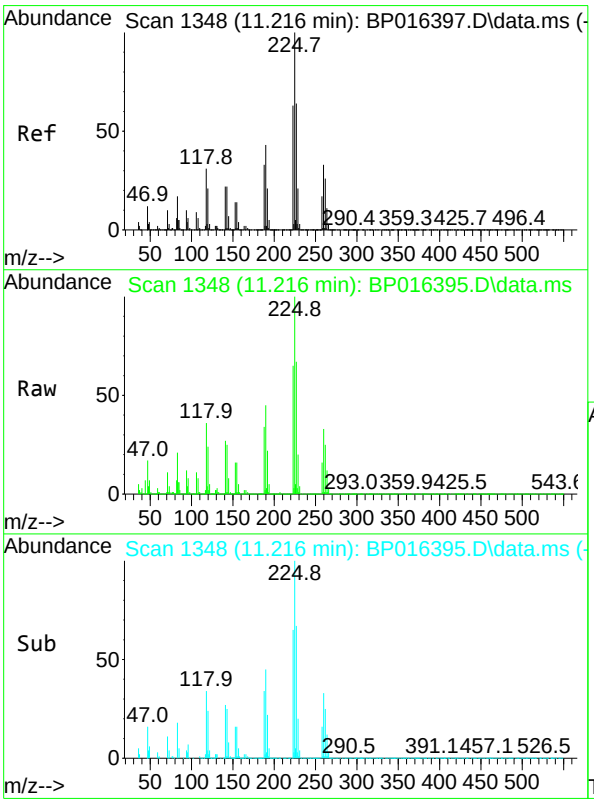
#33
4-Chloroaniline
Concen: 9.965 ng
RT: 11.098 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP016395.D
Acq: 27 Jul 2023 12:12

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:127 Resp: 336434

Ion	Ratio	Lower	Upper
127	100		
129	33.0	25.8	38.8
65	30.1	22.7	34.1
92	19.3	14.9	22.3

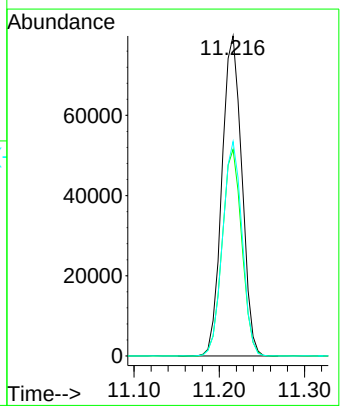


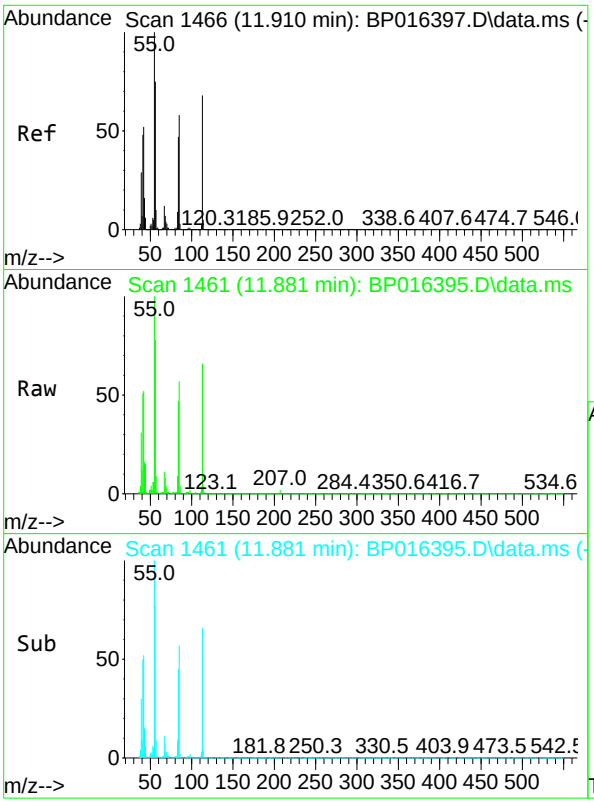


#34
Hexachlorobutadiene
Concen: 9.329 ng
RT: 11.216 min Scan# 1348
Delta R.T. -0.000 min
Lab File: BP016395.D
Acq: 27 Jul 2023 12:12

Tgt Ion:225 Resp: 129265

Ion	Ratio	Lower	Upper
225	100		
223	64.6	50.2	75.4
227	67.0	51.0	76.6



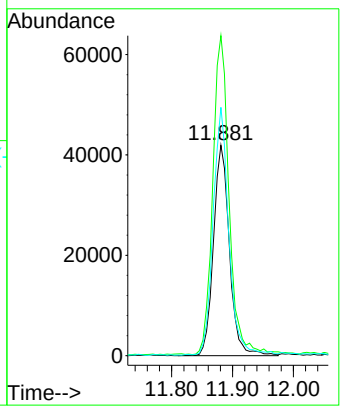


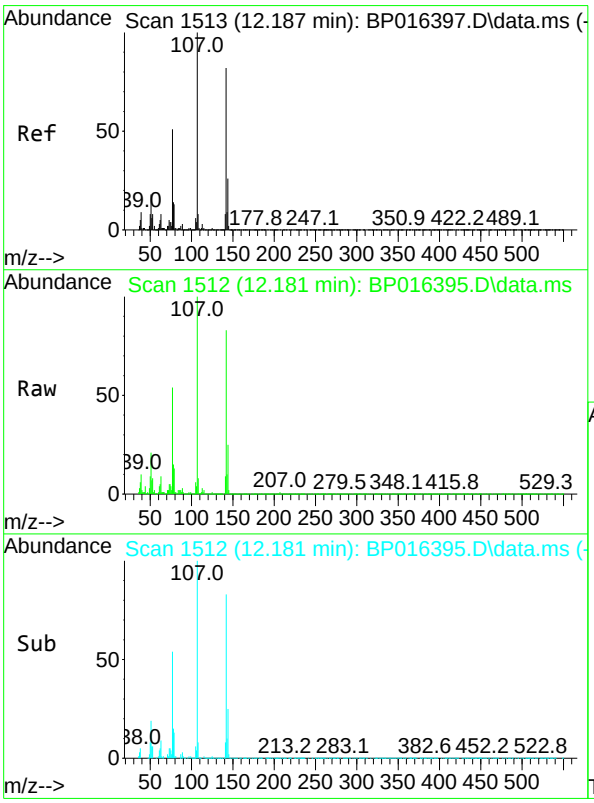
#35
Caprolactam
Concen: 9.662 ng
RT: 11.881 min Scan# 14
Delta R.T. -0.030 min
Lab File: BP016395.D
Acq: 27 Jul 2023 12:12

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:113 Resp: 76300

Ion	Ratio	Lower	Upper
113	100		
55	152.1	128.0	168.0
56	118.0	91.3	131.3

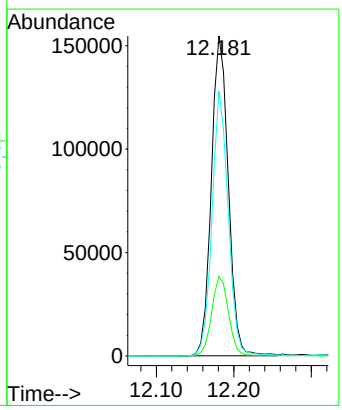


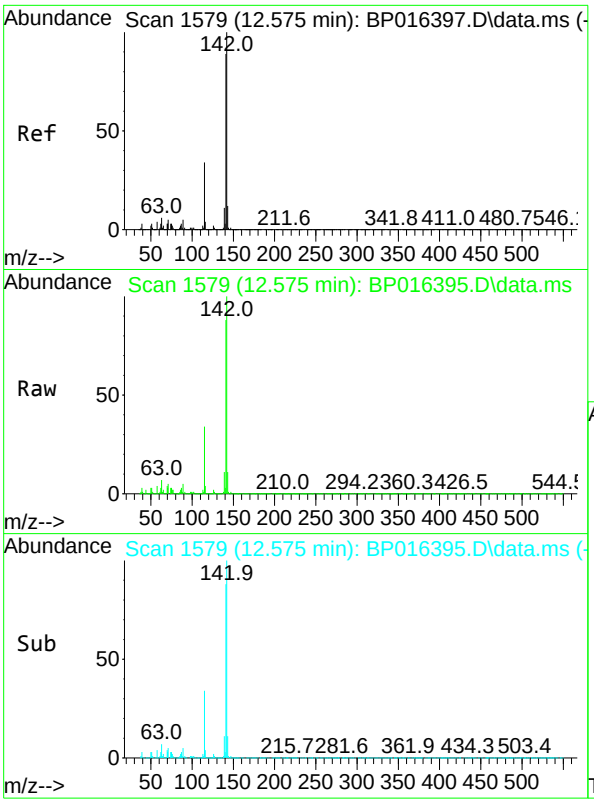


#36
4-Chloro-3-methylphenol
Concen: 9.797 ng
RT: 12.181 min Scan# 1512
Delta R.T. -0.006 min
Lab File: BP016395.D
Acq: 27 Jul 2023 12:12

Tgt Ion:107 Resp: 235298

Ion	Ratio	Lower	Upper
107	100		
144	24.9	21.0	31.6
142	82.8	65.6	98.4



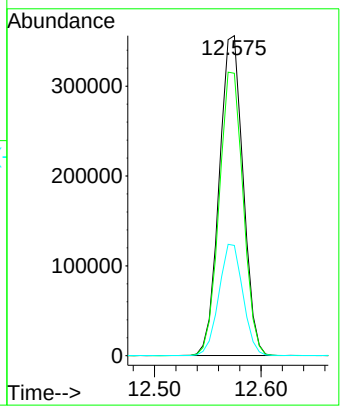


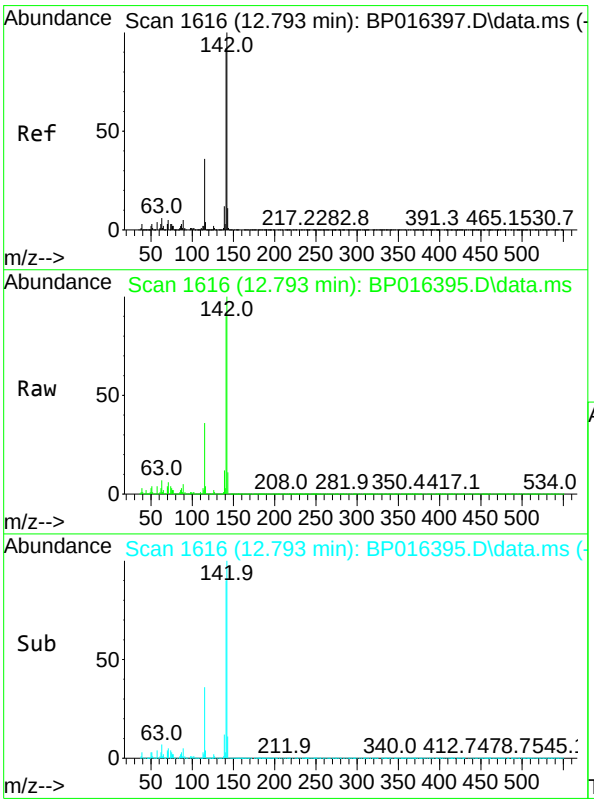
#37
2-Methylnaphthalene
Concen: 10.176 ng
RT: 12.575 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP016395.D
Acq: 27 Jul 2023 12:12

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:142 Resp: 553286

Ion	Ratio	Lower	Upper
142	100		
141	88.2	71.4	107.2
115	34.4	27.0	40.4

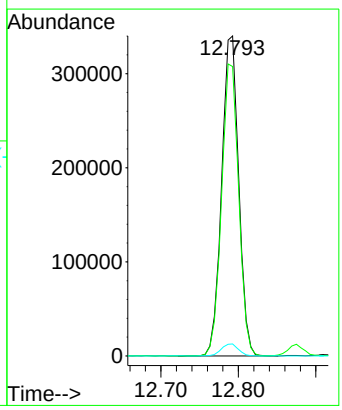


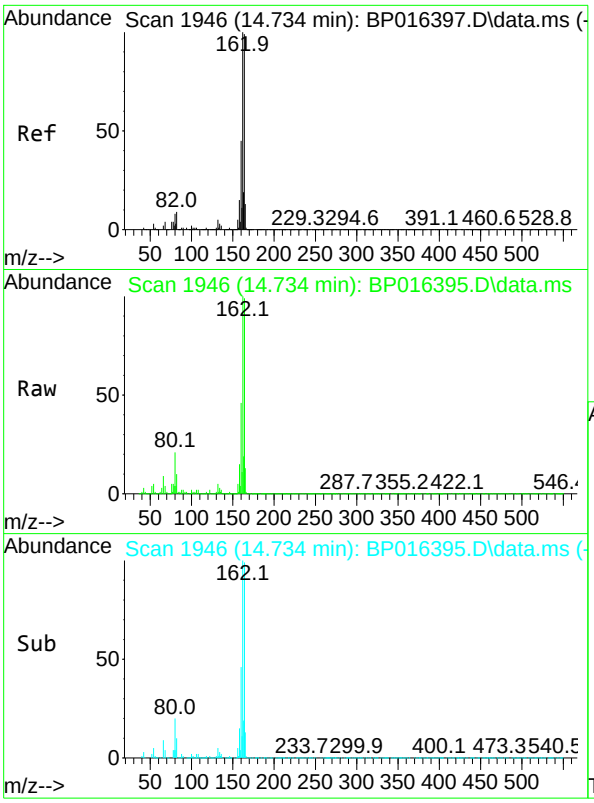


#38
1-Methylnaphthalene
Concen: 10.180 ng
RT: 12.793 min Scan# 1616
Delta R.T. -0.000 min
Lab File: BP016395.D
Acq: 27 Jul 2023 12:12

Tgt Ion:142 Resp: 518935

Ion	Ratio	Lower	Upper
142	100		
141	90.4	73.8	110.6
116	3.8	2.9	4.3



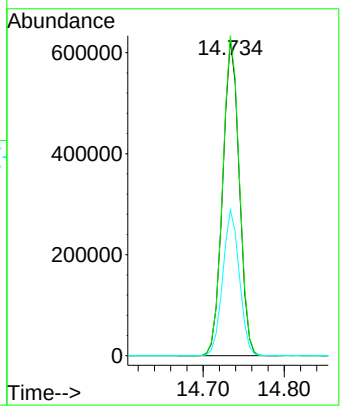


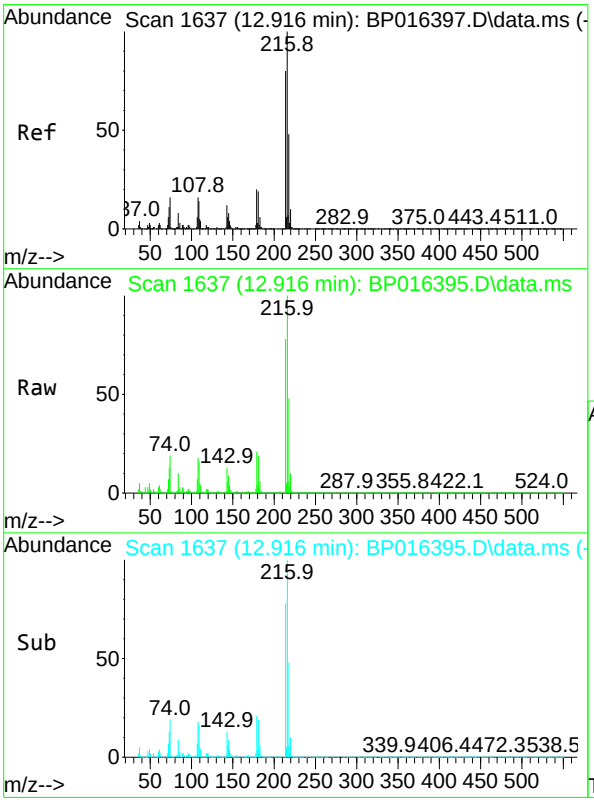
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.734 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP016395.D
Acq: 27 Jul 2023 12:12

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:164 Resp: 888395

Ion	Ratio	Lower	Upper
164	100		
162	101.3	81.0	121.6
160	46.2	36.6	55.0

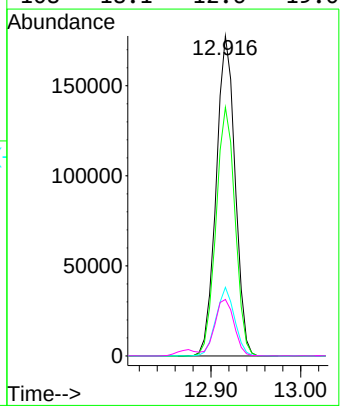


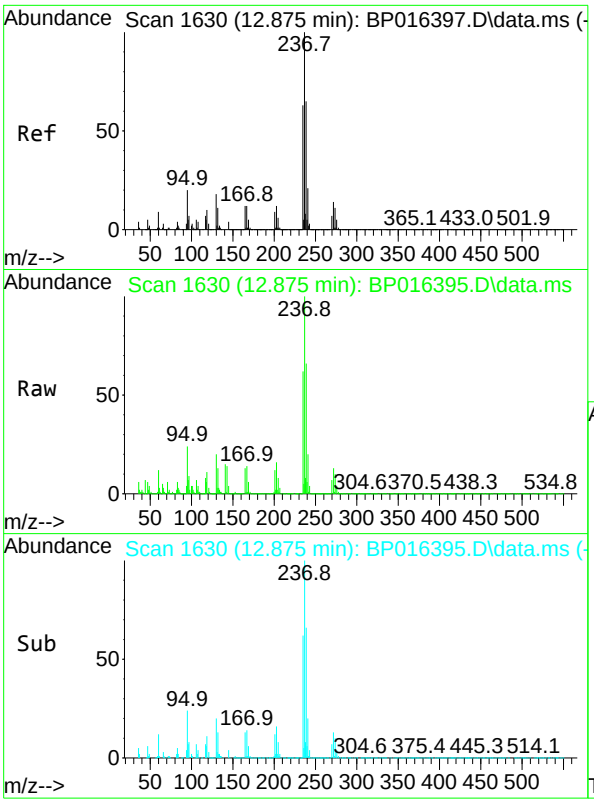


#40
1,2,4,5-Tetrachlorobenzene
Concen: 9.635 ng
RT: 12.916 min Scan# 1637
Delta R.T. -0.000 min
Lab File: BP016395.D
Acq: 27 Jul 2023 12:12

Tgt Ion:216 Resp: 260120

Ion	Ratio	Lower	Upper
216	100		
214	78.2	62.8	94.2
179	21.1	16.0	24.0
108	18.1	12.6	19.0



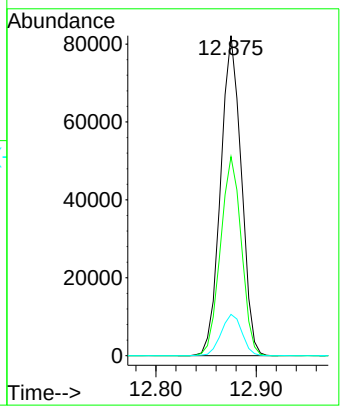


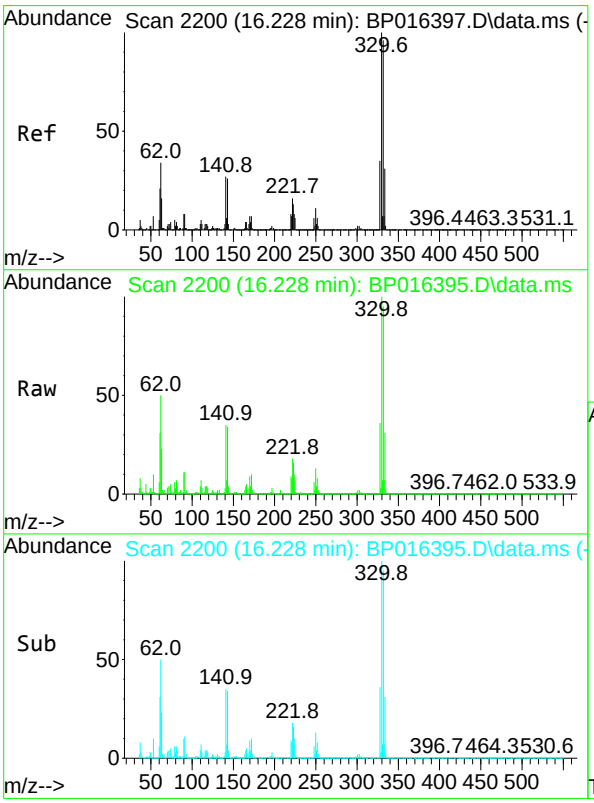
#41
Hexachlorocyclopentadiene
Concen: 8.662 ng
RT: 12.875 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP016395.D
Acq: 27 Jul 2023 12:12

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:237 Resp: 117444

Ion	Ratio	Lower	Upper
237	100		
235	62.2	42.7	82.7
272	12.9	0.0	33.5

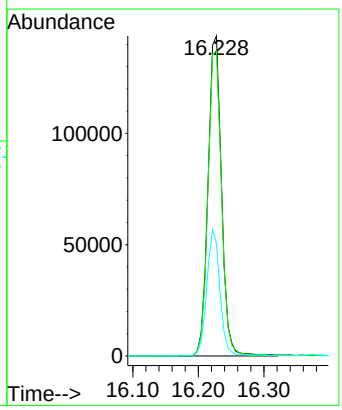


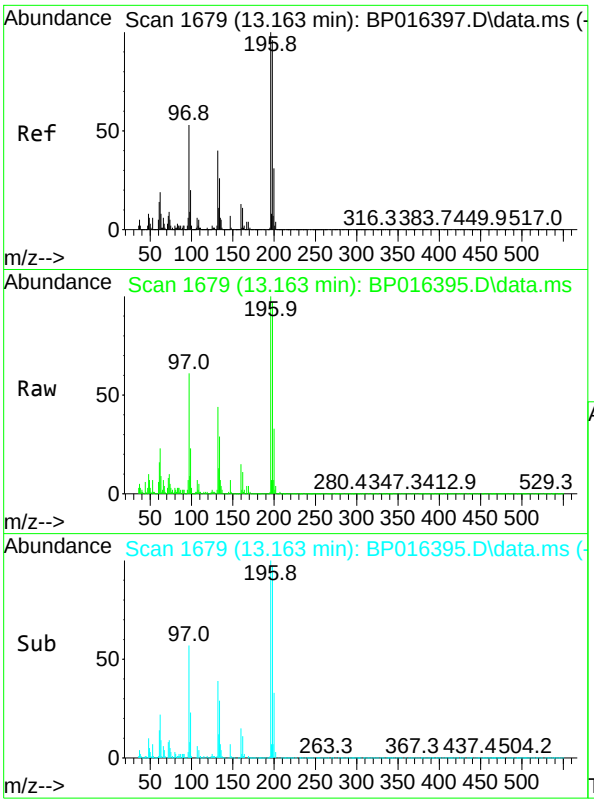


#42
2,4,6-Tribromophenol
Concen: 15.767 ng
RT: 16.228 min Scan# 2200
Delta R.T. -0.000 min
Lab File: BP016395.D
Acq: 27 Jul 2023 12:12

Tgt Ion:330 Resp: 206062

Ion	Ratio	Lower	Upper
330	100		
332	96.4	77.8	116.8
141	38.6	22.6	34.0#



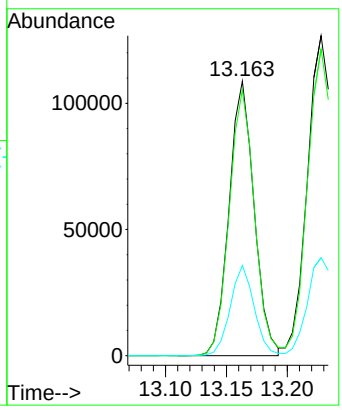


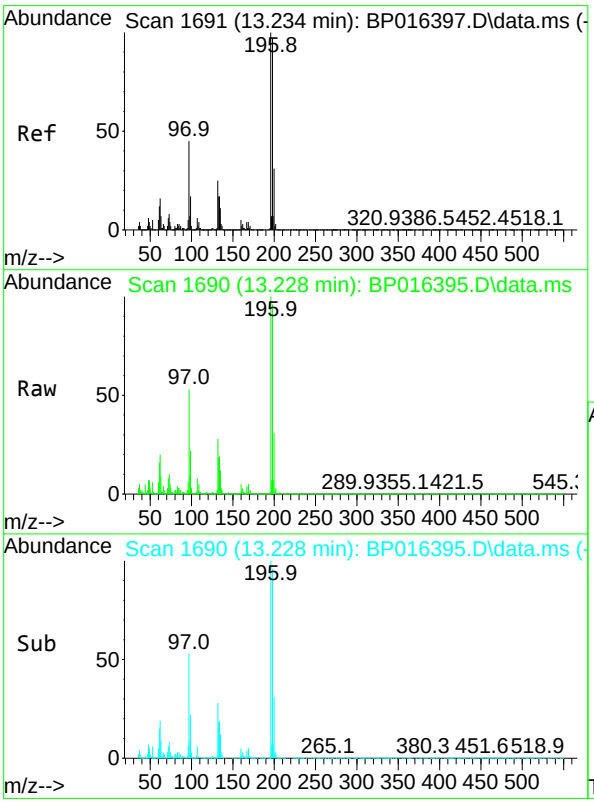
#43
2,4,6-Trichlorophenol
Concen: 8.969 ng
RT: 13.163 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP016395.D
Acq: 27 Jul 2023 12:12

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:196 Resp: 155366

Ion	Ratio	Lower	Upper
196	100		
198	96.9	77.0	115.4
200	32.9	24.5	36.7

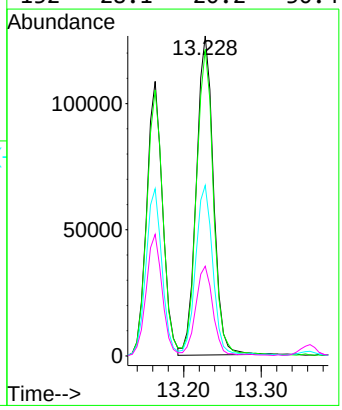


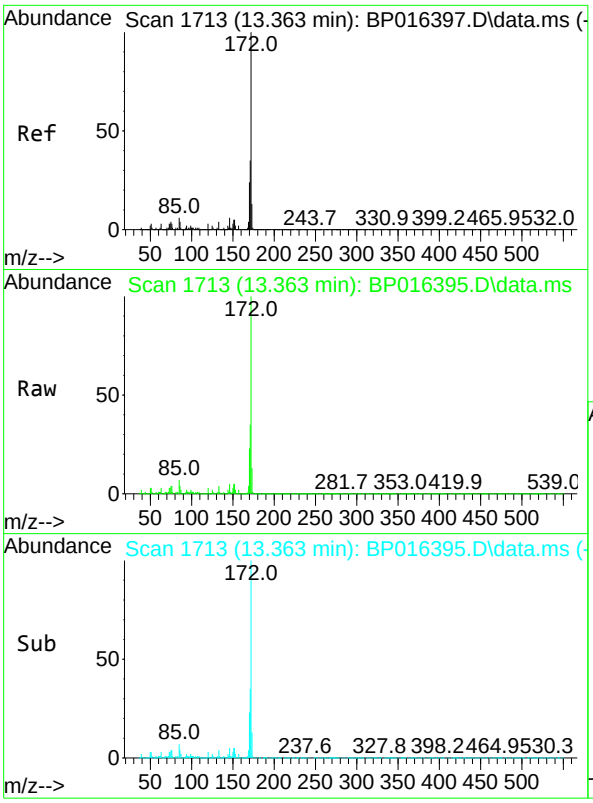


#44
2,4,5-Trichlorophenol
Concen: 9.182 ng
RT: 13.228 min Scan# 1690
Delta R.T. -0.006 min
Lab File: BP016395.D
Acq: 27 Jul 2023 12:12

Tgt Ion:196 Resp: 192972

Ion	Ratio	Lower	Upper
196	100		
198	95.8	77.3	115.9
97	53.3	36.2	54.4
132	28.1	20.2	30.4



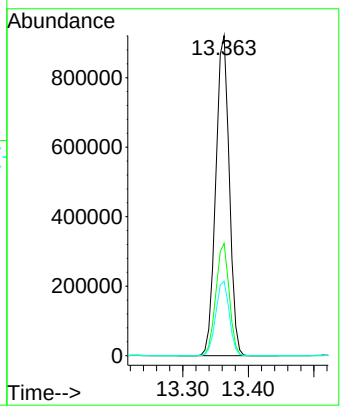


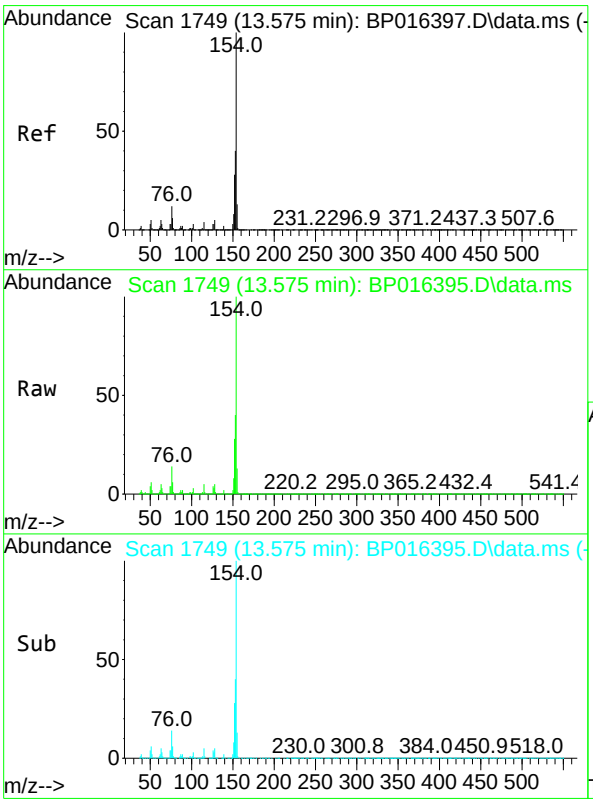
#45
2-Fluorobiphenyl
Concen: 21.137 ng
RT: 13.363 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP016395.D
Acq: 27 Jul 2023 12:12

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:172 Resp: 1309794

Ion	Ratio	Lower	Upper
172	100		
171	35.1	28.2	42.2
170	23.3	19.1	28.7

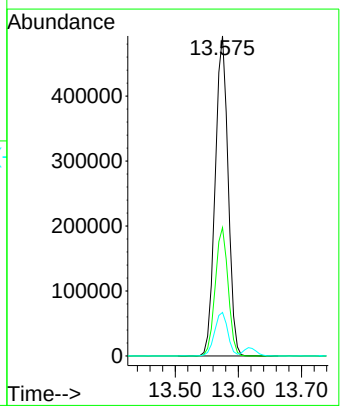


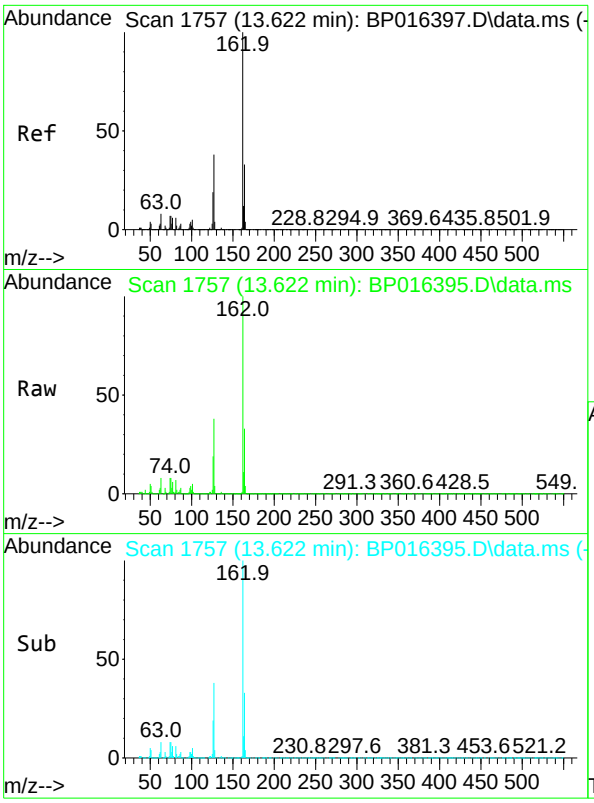


#46
1,1'-Biphenyl
Concen: 10.336 ng
RT: 13.575 min Scan# 1749
Delta R.T. -0.000 min
Lab File: BP016395.D
Acq: 27 Jul 2023 12:12

Tgt Ion:154 Resp: 699933

Ion	Ratio	Lower	Upper
154	100		
153	40.1	20.1	60.1
76	13.6	0.0	32.5



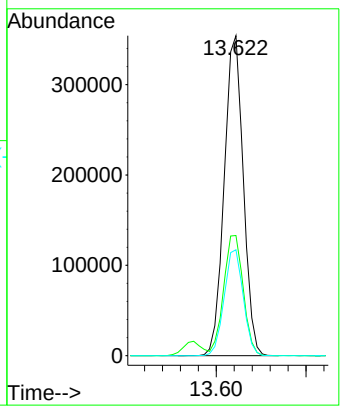


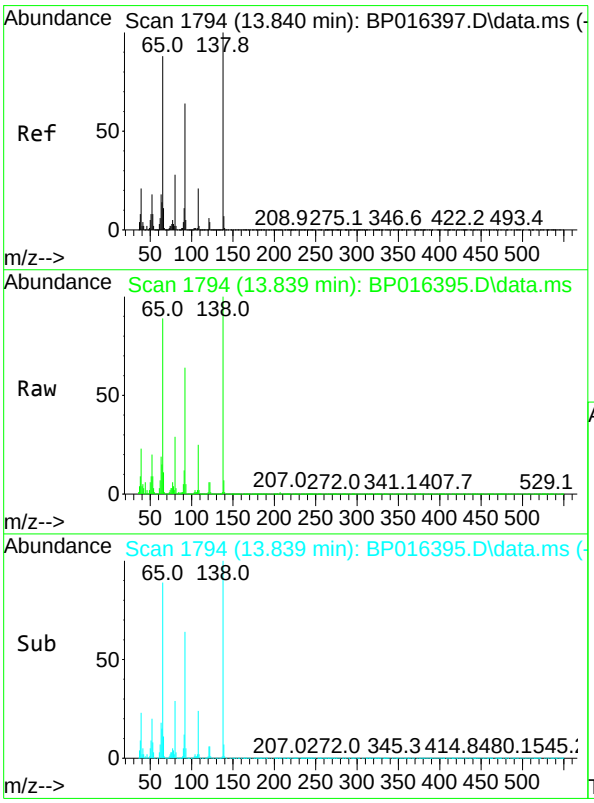
#47
2-Chloronaphthalene
Concen: 10.232 ng
RT: 13.622 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP016395.D
Acq: 27 Jul 2023 12:12

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:162 Resp: 522744

Ion	Ratio	Lower	Upper
162	100		
127	37.5	30.1	45.1
164	33.1	26.6	39.8

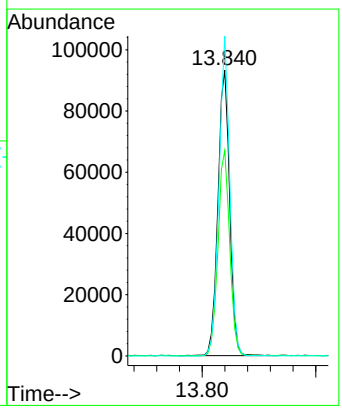


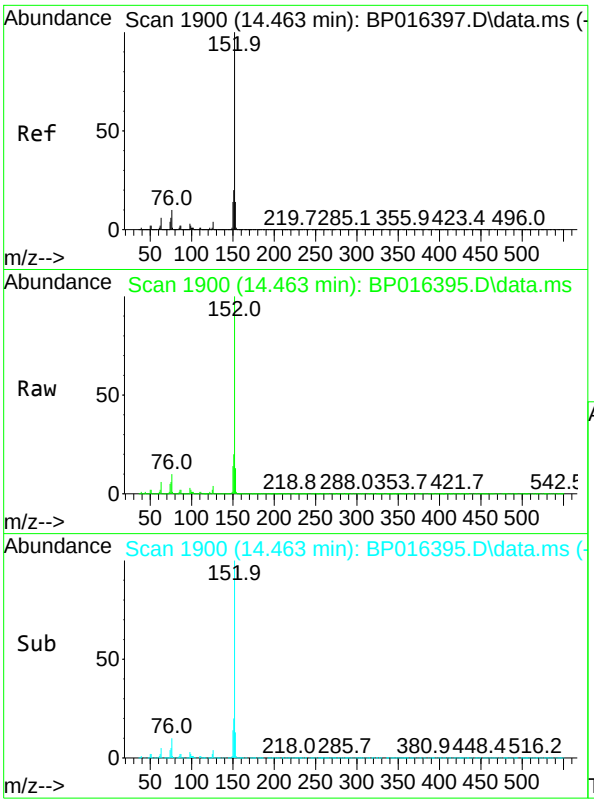


#48
2-Nitroaniline
Concen: 9.304 ng
RT: 13.839 min Scan# 1794
Delta R.T. -0.000 min
Lab File: BP016395.D
Acq: 27 Jul 2023 12:12

Tgt Ion: 65 Resp: 133987

Ion	Ratio	Lower	Upper
65	100		
92	71.8	58.2	87.4
138	111.9	91.3	136.9



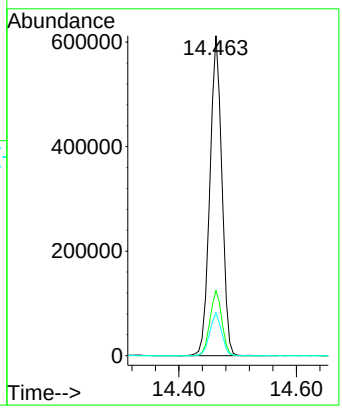


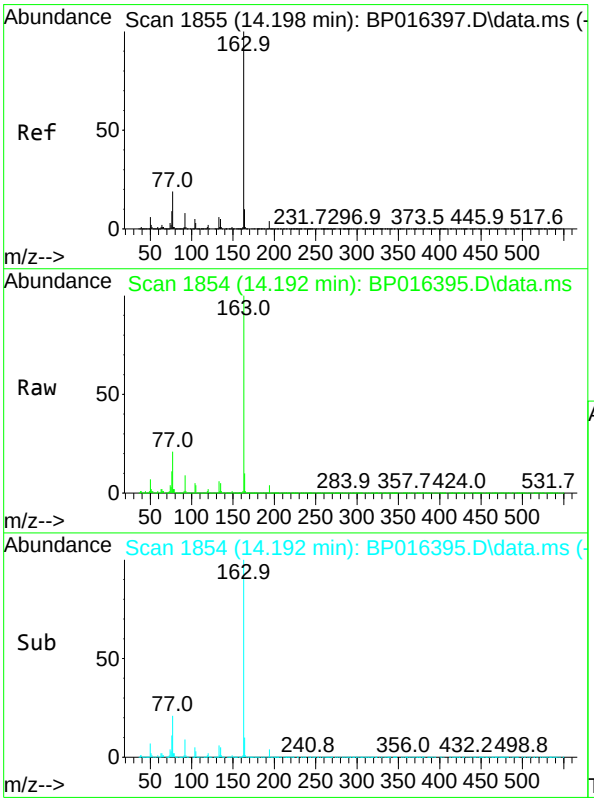
#49
Acenaphthylene
Concen: 10.249 ng
RT: 14.463 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP016395.D
Acq: 27 Jul 2023 12:12

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:152 Resp: 868820

Ion	Ratio	Lower	Upper
152	100		
151	20.3	16.2	24.4
153	13.4	10.8	16.2

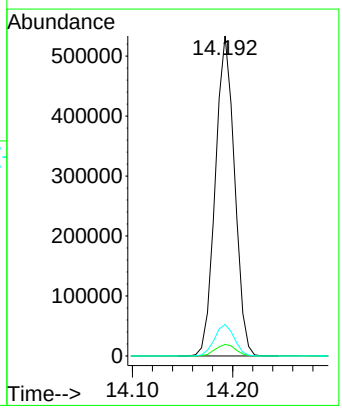


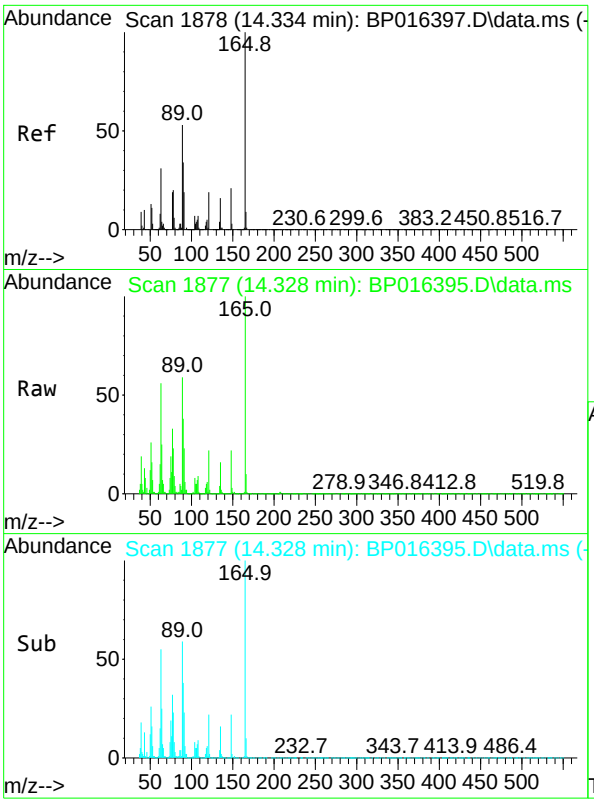


#50
Dimethylphthalate
Concen: 10.262 ng
RT: 14.192 min Scan# 1854
Delta R.T. -0.006 min
Lab File: BP016395.D
Acq: 27 Jul 2023 12:12

Tgt Ion:163 Resp: 710399

Ion	Ratio	Lower	Upper
163	100		
194	3.6	3.4	5.2
164	9.8	8.2	12.2



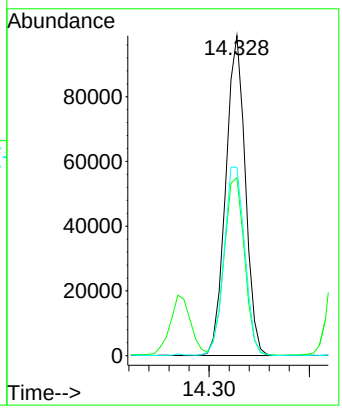


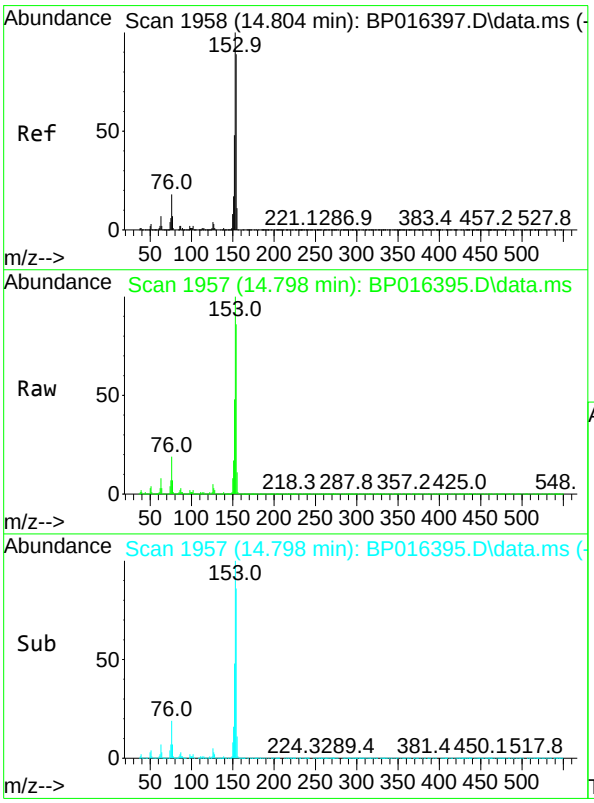
#51
2,6-Dinitrotoluene
Concen: 9.412 ng
RT: 14.328 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP016395.D
Acq: 27 Jul 2023 12:12

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:165 Resp: 133486

Ion	Ratio	Lower	Upper
165	100		
63	55.6	39.1	58.7
89	58.9	42.5	63.7

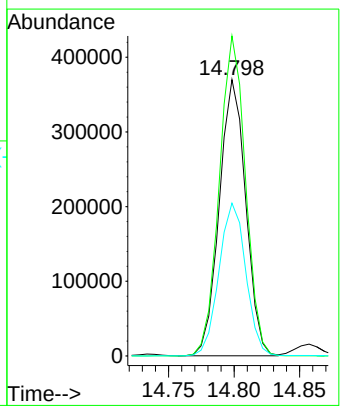


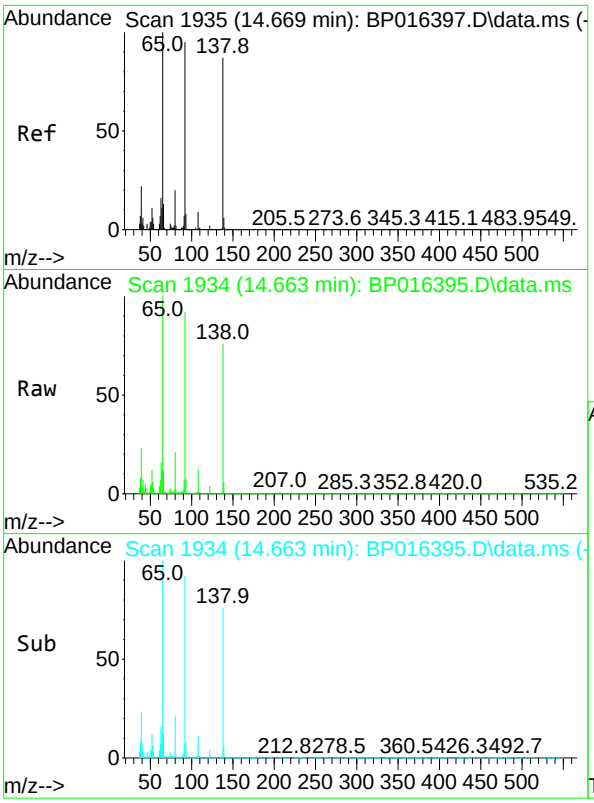


#52
Acenaphthene
Concen: 10.285 ng
RT: 14.798 min Scan# 1957
Delta R.T. -0.006 min
Lab File: BP016395.D
Acq: 27 Jul 2023 12:12

Tgt Ion:154 Resp: 518451

Ion	Ratio	Lower	Upper
154	100		
153	115.8	90.4	135.6
152	55.3	43.4	65.0



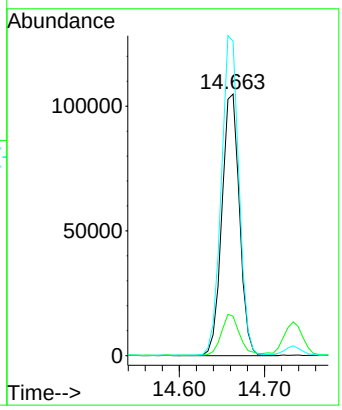


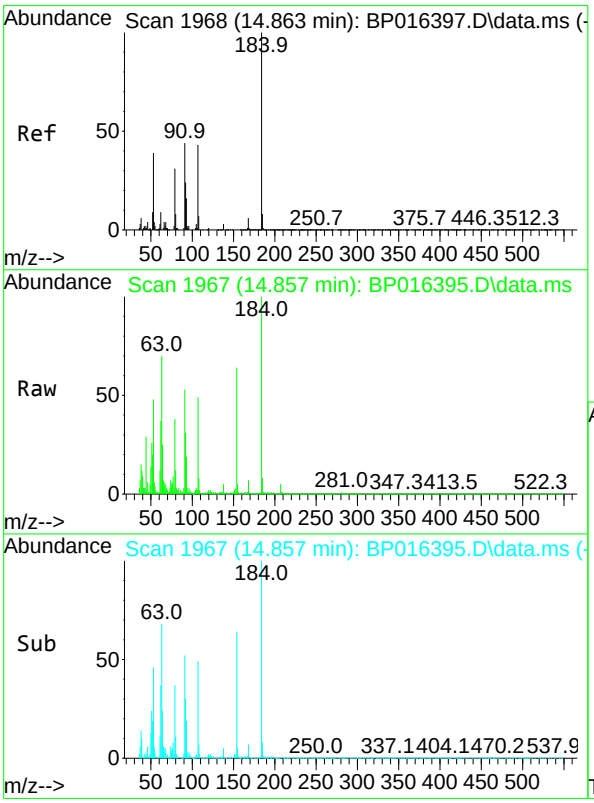
#53
3-Nitroaniline
Concen: 9.385 ng
RT: 14.663 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP016395.D
Acq: 27 Jul 2023 12:12

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:138 Resp: 150479

Ion	Ratio	Lower	Upper
138	100		
108	15.1	8.7	13.1#
92	120.2	87.6	131.4

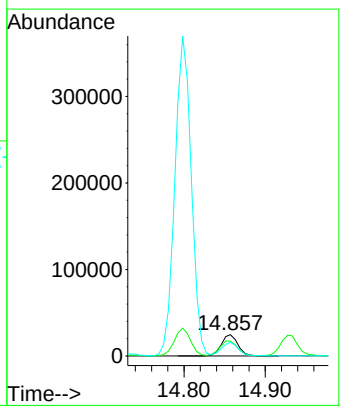


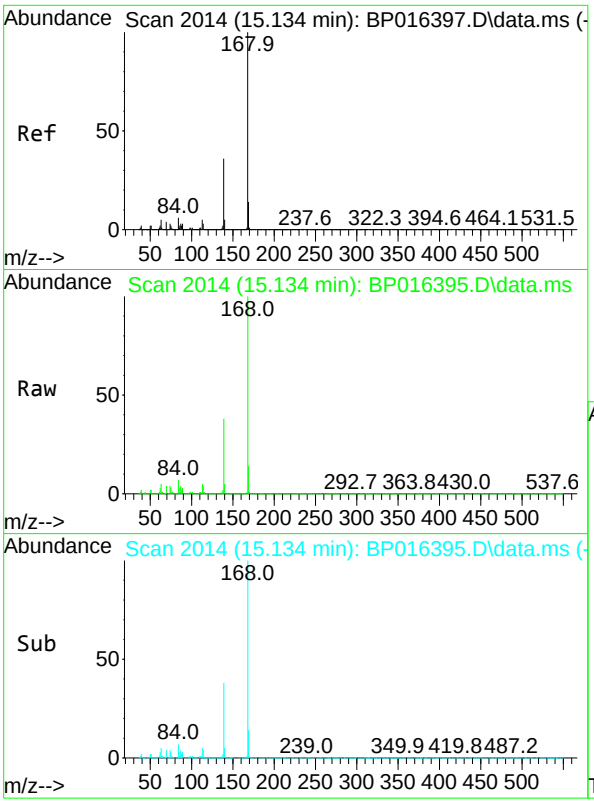


#54
2,4-Dinitrophenol
Concen: 12.783 ng
RT: 14.857 min Scan# 1967
Delta R.T. -0.006 min
Lab File: BP016395.D
Acq: 27 Jul 2023 12:12

Tgt Ion:184 Resp: 35252

Ion	Ratio	Lower	Upper
184	100		
63	69.5	48.2	72.4
154	64.5	49.6	74.4



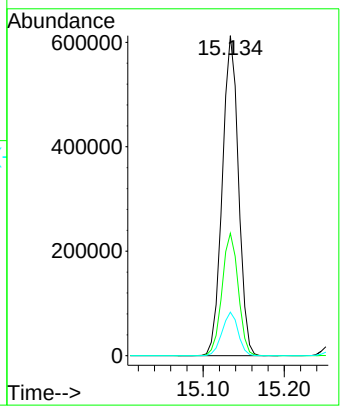


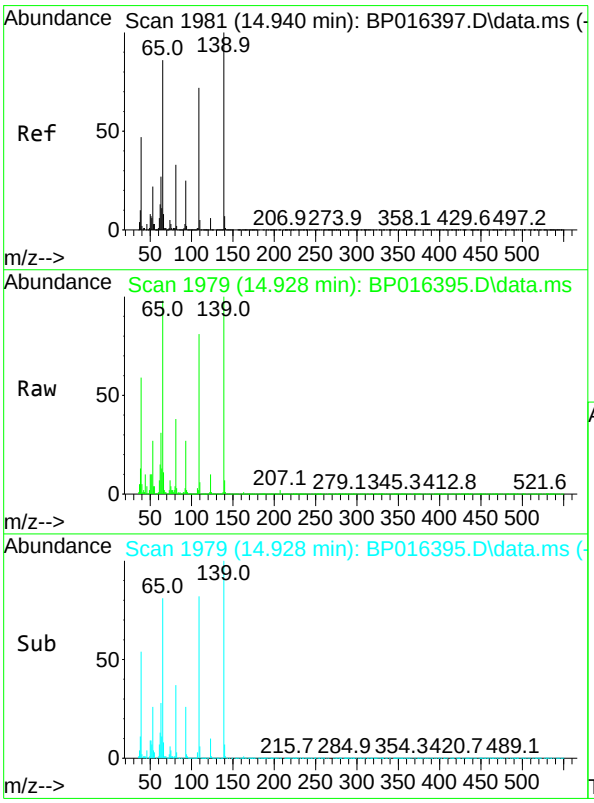
#55
Dibenzofuran
Concen: 10.272 ng
RT: 15.134 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP016395.D
Acq: 27 Jul 2023 12:12

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:168 Resp: 849213

Ion	Ratio	Lower	Upper
168	100		
139	38.2	28.9	43.3
169	13.6	11.0	16.4

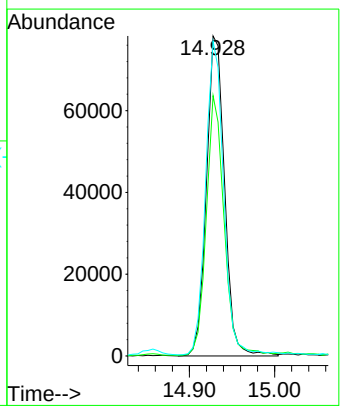


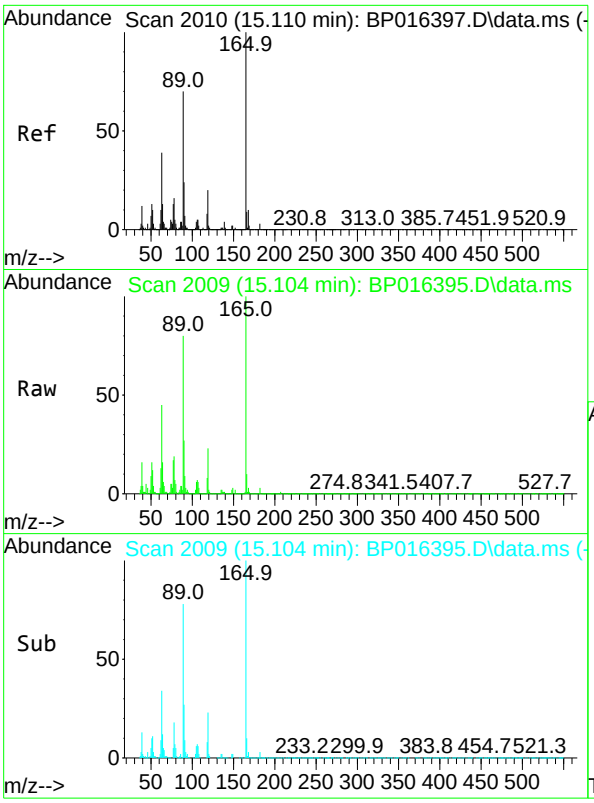


#56
4-Nitrophenol
Concen: 9.228 ng
RT: 14.928 min Scan# 1979
Delta R.T. -0.012 min
Lab File: BP016395.D
Acq: 27 Jul 2023 12:12

Tgt Ion:139 Resp: 115825

Ion	Ratio	Lower	Upper
139	100		
109	81.4	51.9	91.9
65	98.3	66.2	106.2



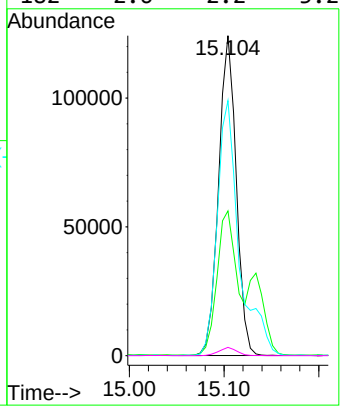


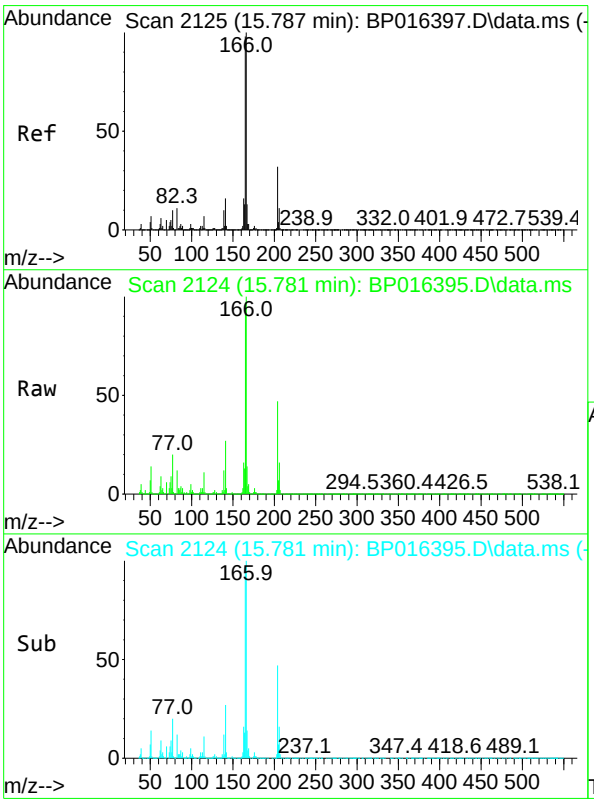
#57
2,4-Dinitrotoluene
Concen: 8.715 ng
RT: 15.104 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP016395.D
Acq: 27 Jul 2023 12:12

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:165 Resp: 161086

Ion	Ratio	Lower	Upper
165	100		
63	45.3	31.4	47.0
89	79.7	55.8	83.6
182	2.6	2.2	3.2

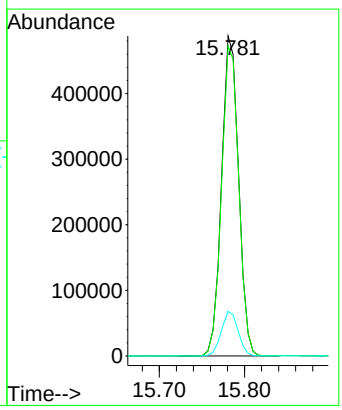


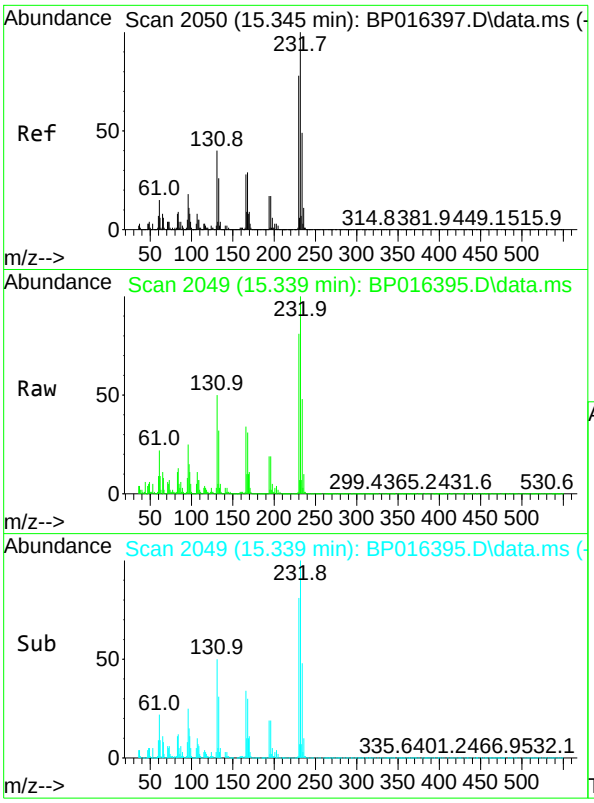


#58
Fluorene
Concen: 10.436 ng
RT: 15.781 min Scan# 2124
Delta R.T. -0.006 min
Lab File: BP016395.D
Acq: 27 Jul 2023 12:12

Tgt Ion:166 Resp: 677858

Ion	Ratio	Lower	Upper
166	100		
165	96.8	78.0	117.0
167	14.0	10.6	16.0



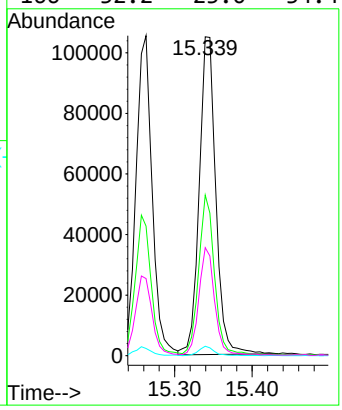


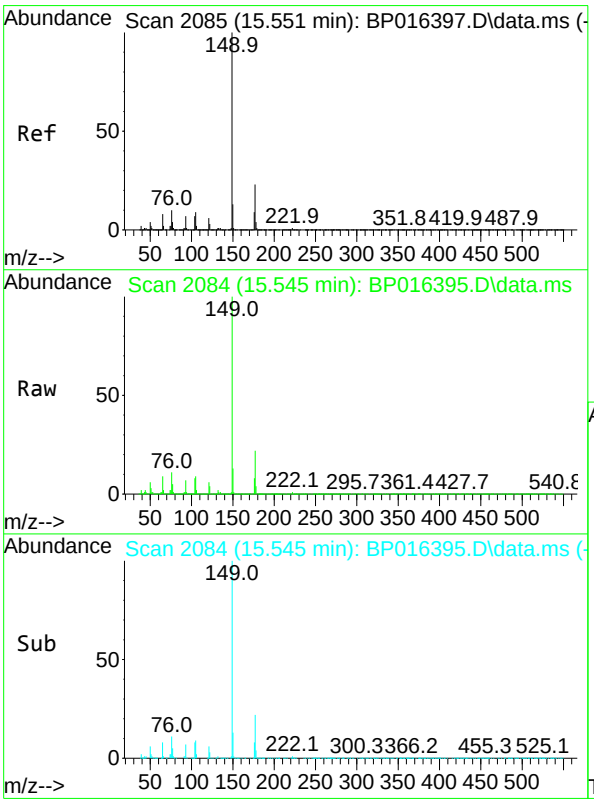
#59
2,3,4,6-Tetrachlorophenol
Concen: 9.019 ng
RT: 15.339 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP016395.D
Acq: 27 Jul 2023 12:12

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:232 Resp: 155916

Ion	Ratio	Lower	Upper
232	100		
131	47.6	33.1	49.7
130	2.8	1.8	2.8#
166	32.2	23.0	34.4

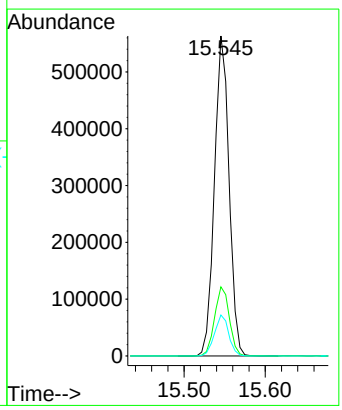


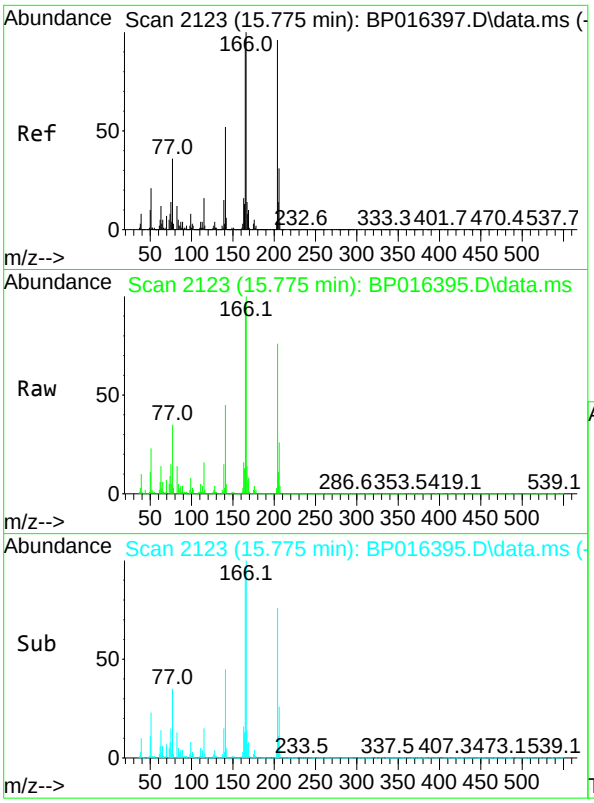


#60
Diethylphthalate
Concen: 10.235 ng
RT: 15.545 min Scan# 2084
Delta R.T. -0.006 min
Lab File: BP016395.D
Acq: 27 Jul 2023 12:12

Tgt Ion:149 Resp: 704127

Ion	Ratio	Lower	Upper
149	100		
177	21.6	18.6	27.8
150	12.8	10.1	15.1



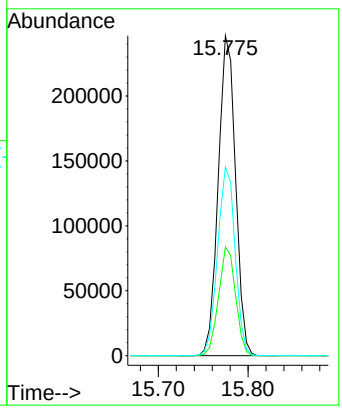


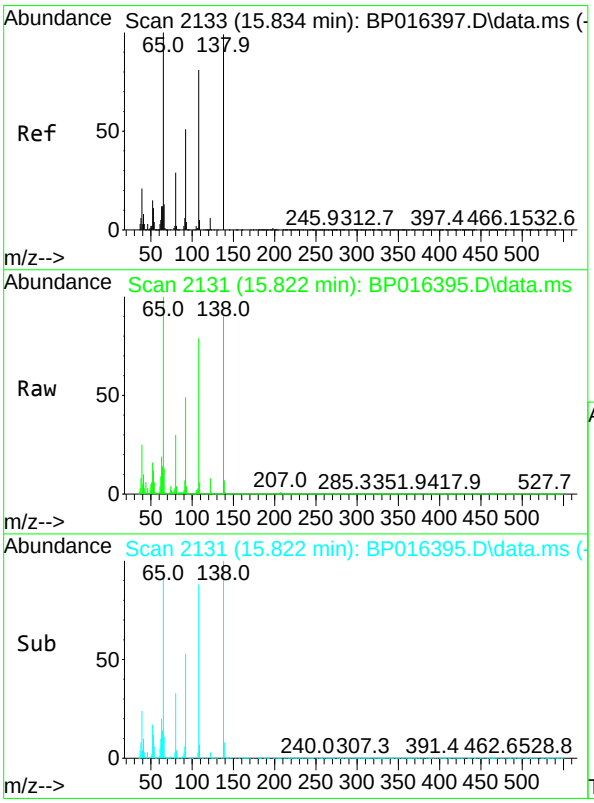
#61
4-Chlorophenyl-phenylether
Concen: 10.062 ng
RT: 15.775 min Scan# 21
Delta R.T. -0.000 min
Lab File: BP016395.D
Acq: 27 Jul 2023 12:12

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:204 Resp: 329777

Ion	Ratio	Lower	Upper
204	100		
206	33.9	26.2	39.4
141	59.0	43.4	65.0

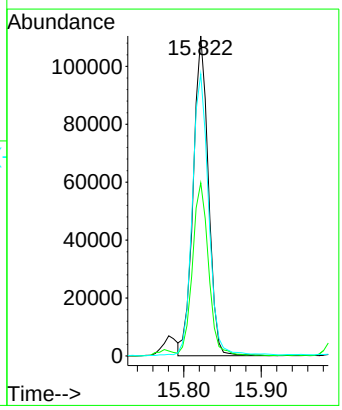


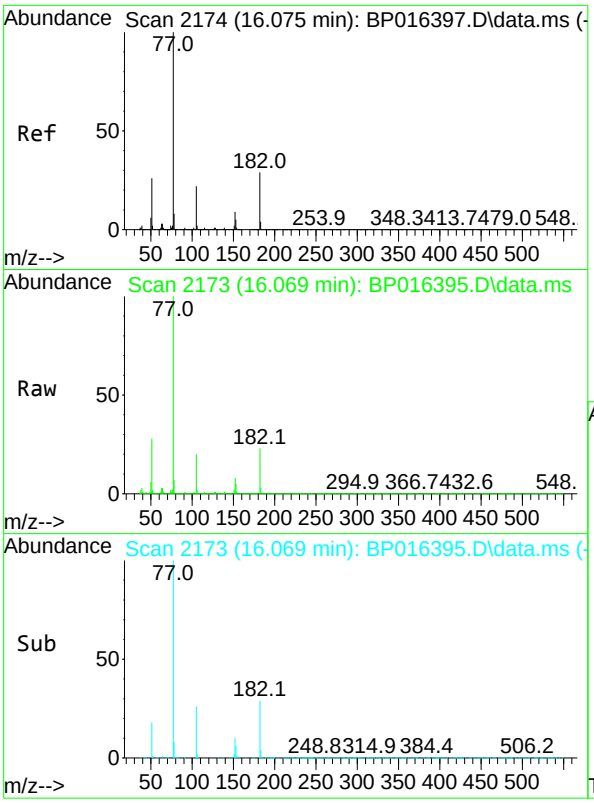


#62
4-Nitroaniline
Concen: 9.434 ng
RT: 15.822 min Scan# 2131
Delta R.T. -0.012 min
Lab File: BP016395.D
Acq: 27 Jul 2023 12:12

Tgt Ion:138 Resp: 150115

Ion	Ratio	Lower	Upper
138	100		
92	54.1	30.3	70.3
108	88.1	60.1	100.1



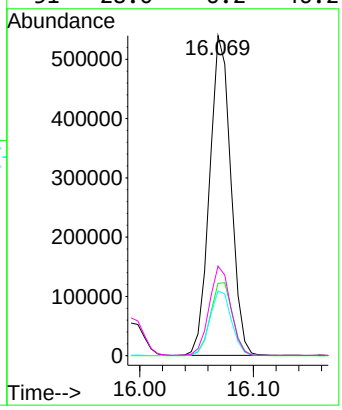


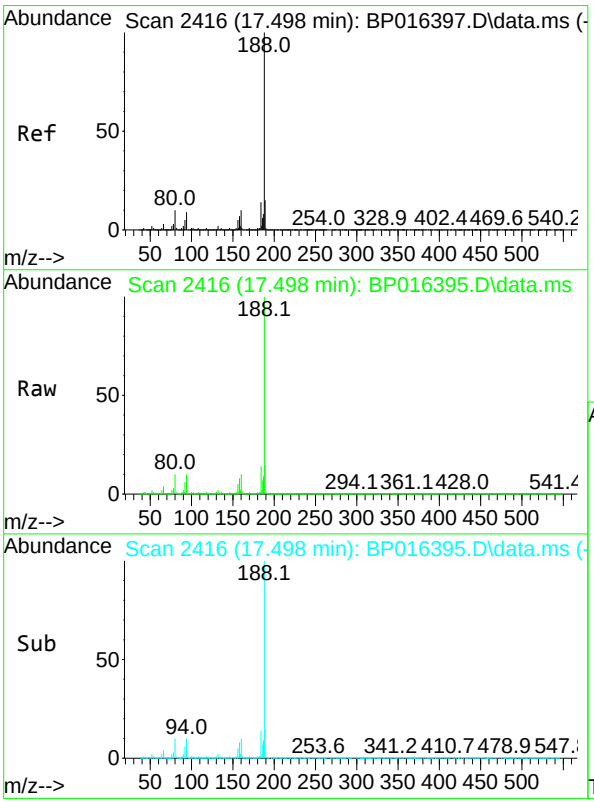
#63
Azobenzene
Concen: 10.774 ng
RT: 16.069 min Scan# 21
Delta R.T. -0.006 min
Lab File: BP016395.D
Acq: 27 Jul 2023 12:12

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion: 77 Resp: 699904

Ion	Ratio	Lower	Upper
77	100		
182	22.6	8.6	48.6
105	20.2	2.4	42.4
51	28.0	6.2	46.2

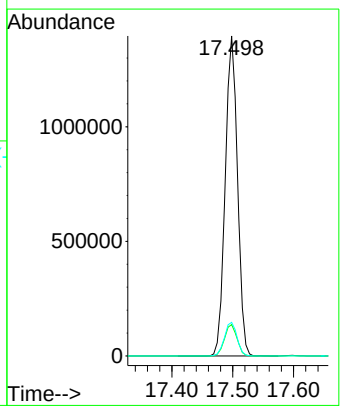


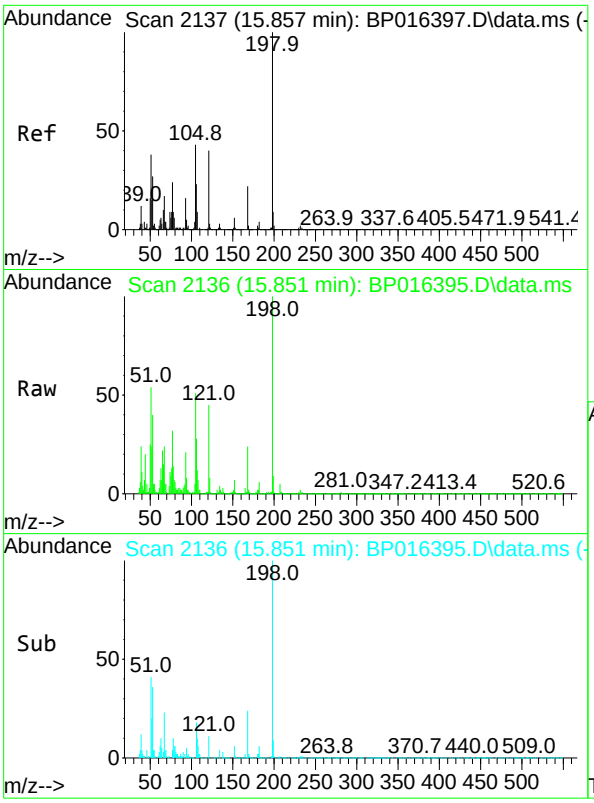


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.498 min Scan# 2416
Delta R.T. -0.000 min
Lab File: BP016395.D
Acq: 27 Jul 2023 12:12

Tgt Ion:188 Resp: 1951927

Ion	Ratio	Lower	Upper
188	100		
94	9.8	7.4	11.0
80	10.5	7.8	11.8



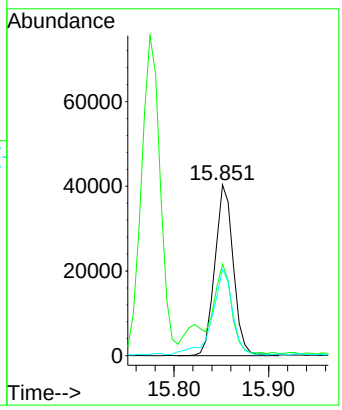


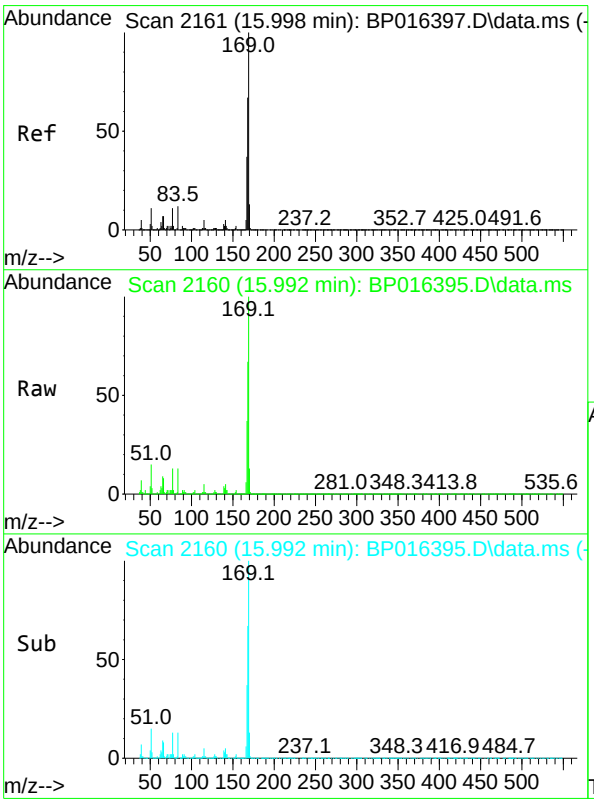
#65
4,6-Dinitro-2-methylphenol
Concen: 11.479 ng
RT: 15.851 min Scan# 21
Delta R.T. -0.006 min
Lab File: BP016395.D
Acq: 27 Jul 2023 12:12

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:198 Resp: 54475

Ion	Ratio	Lower	Upper
198	100		
51	53.7	20.1	60.1
105	50.6	23.1	63.1

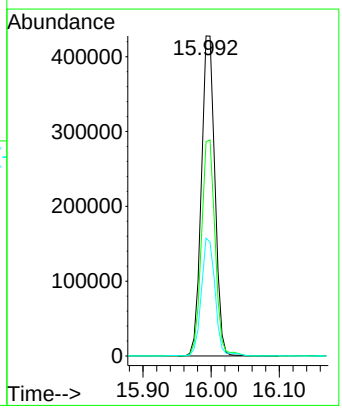


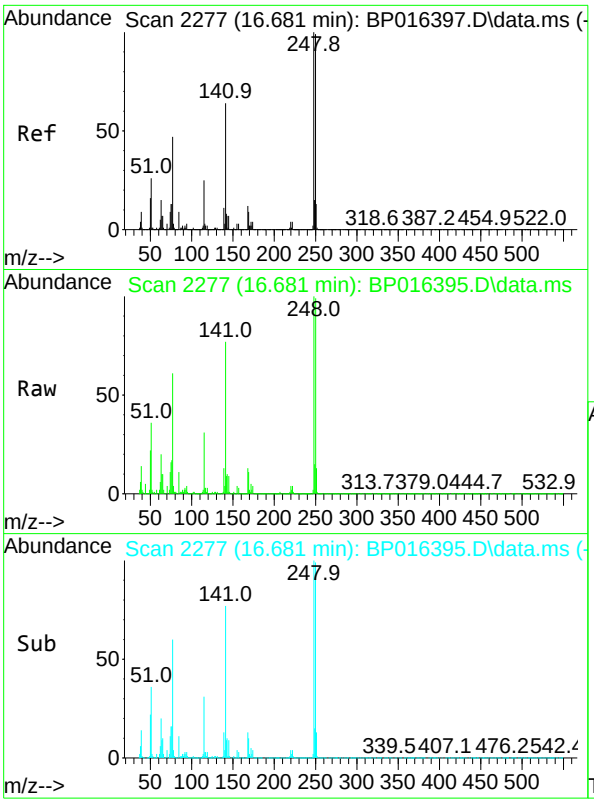


#66
n-Nitrosodiphenylamine
Concen: 10.248 ng
RT: 15.992 min Scan# 2160
Delta R.T. -0.006 min
Lab File: BP016395.D
Acq: 27 Jul 2023 12:12

Tgt Ion:169 Resp: 589506

Ion	Ratio	Lower	Upper
169	100		
168	67.0	53.6	80.4
167	36.8	29.2	43.8



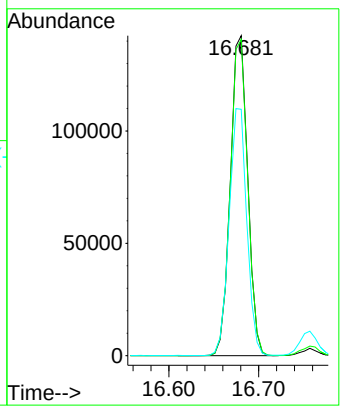


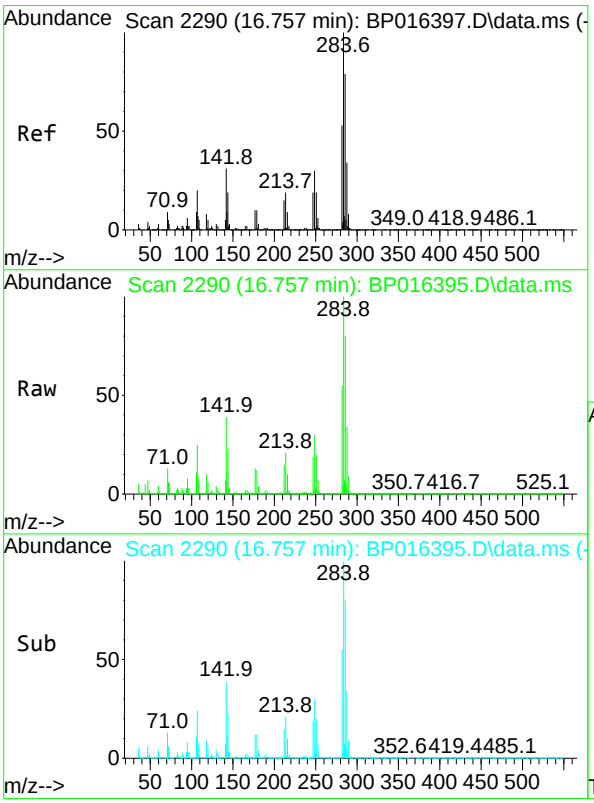
#67
4-Bromophenyl-phenylether
Concen: 9.258 ng
RT: 16.681 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP016395.D
Acq: 27 Jul 2023 12:12

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:248 Resp: 191347

Ion	Ratio	Lower	Upper
248	100		
250	98.8	78.9	118.3
141	77.0	51.0	76.4#

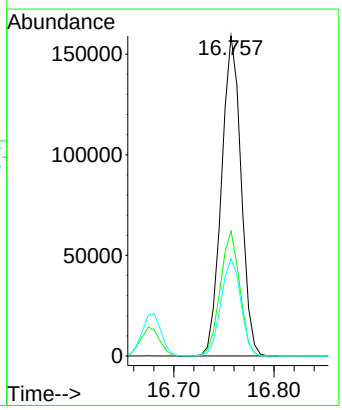


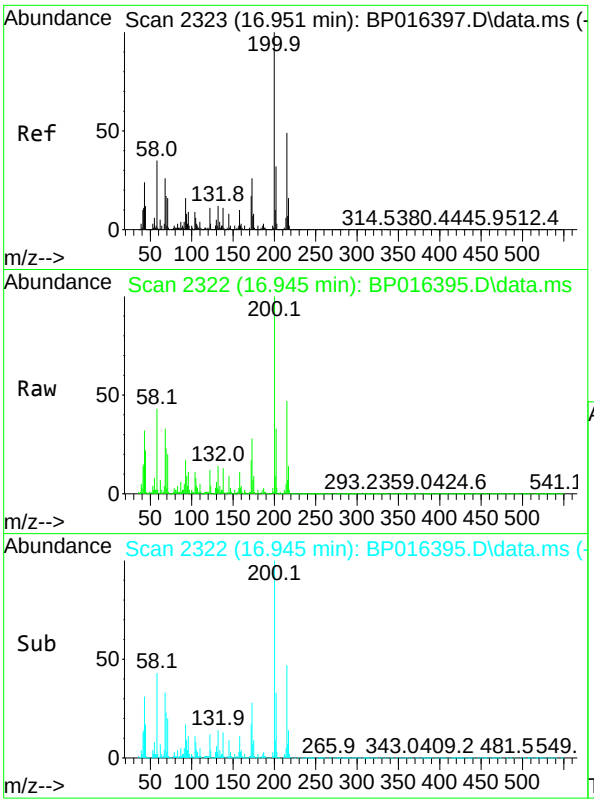


#68
Hexachlorobenzene
Concen: 9.332 ng
RT: 16.757 min Scan# 2290
Delta R.T. -0.000 min
Lab File: BP016395.D
Acq: 27 Jul 2023 12:12

Tgt Ion:284 Resp: 215092

Ion	Ratio	Lower	Upper
284	100		
142	39.1	25.2	37.8#
249	30.4	26.0	39.0



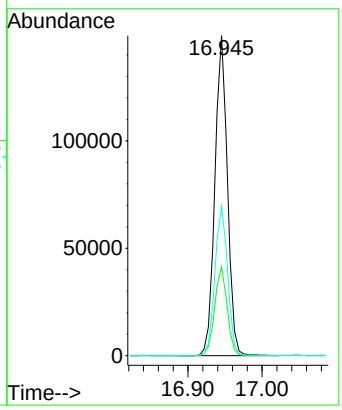


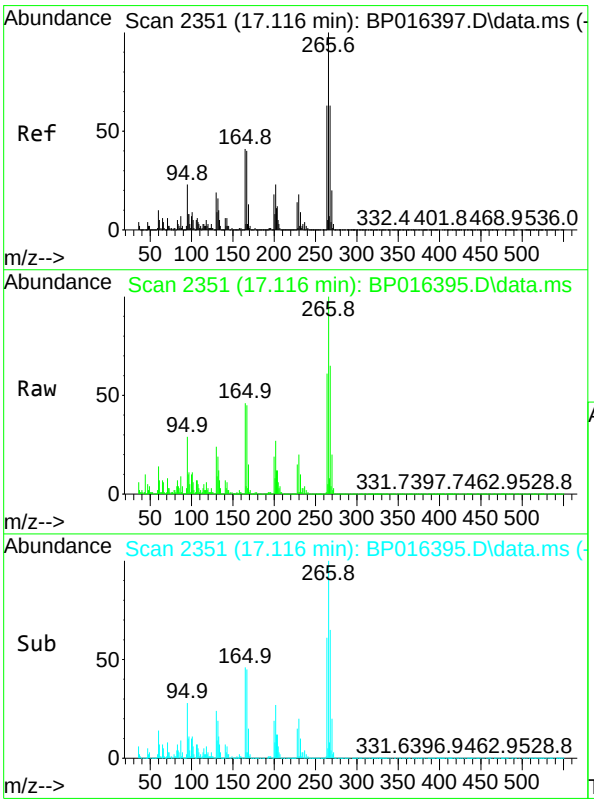
#69
Atrazine
Concen: 10.230 ng
RT: 16.945 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP016395.D
Acq: 27 Jul 2023 12:12

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:200 Resp: 175009

Ion	Ratio	Lower	Upper
200	100		
173	27.8	5.8	45.8
215	46.6	29.2	69.2

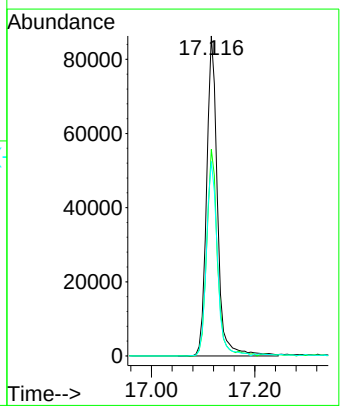


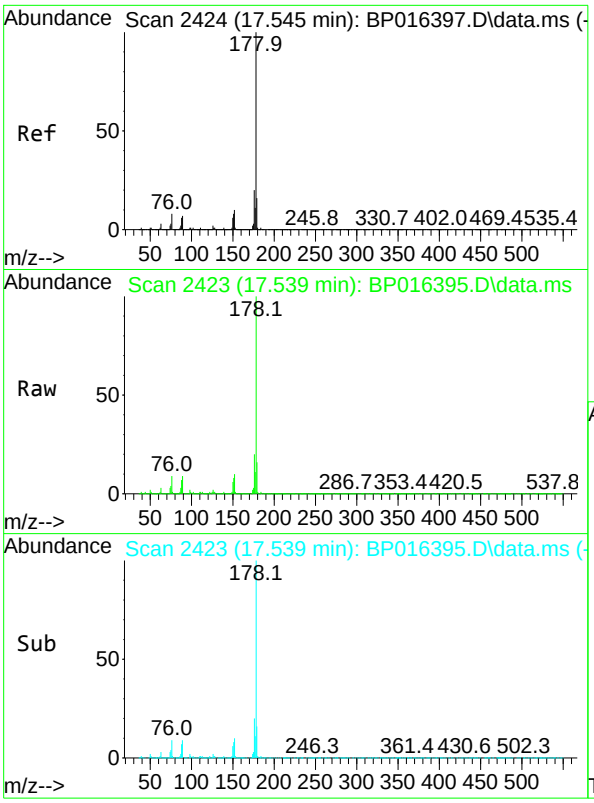


#70
Pentachlorophenol
Concen: 7.885 ng
RT: 17.116 min Scan# 2351
Delta R.T. -0.000 min
Lab File: BP016395.D
Acq: 27 Jul 2023 12:12

Tgt Ion:266 Resp: 125761

Ion	Ratio	Lower	Upper
266	100		
268	64.6	53.9	80.9
264	60.8	54.9	82.3



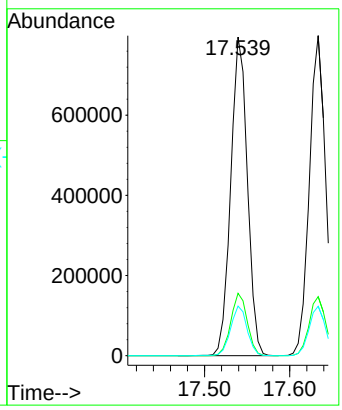


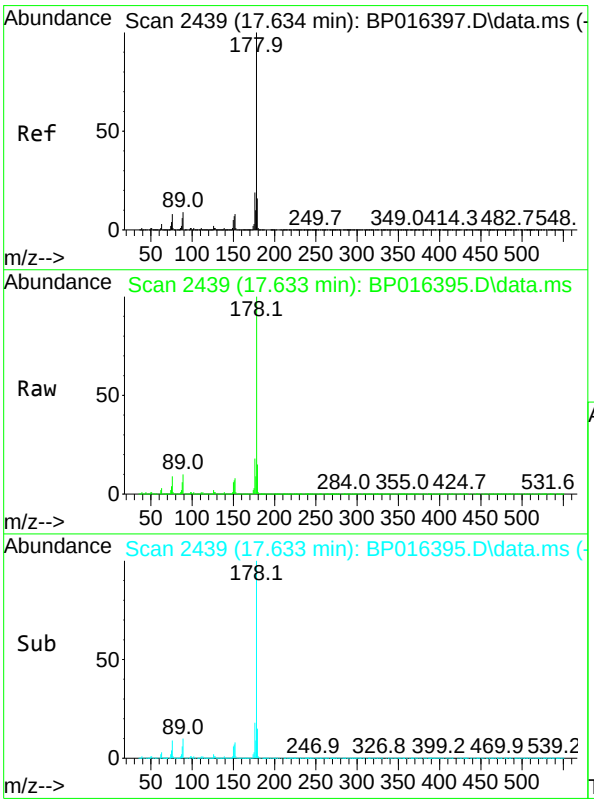
#71
Phenanthrene
Concen: 10.430 ng
RT: 17.539 min Scan# 24
Delta R.T. -0.006 min
Lab File: BP016395.D
Acq: 27 Jul 2023 12:12

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:178 Resp: 1081042

Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.8	23.8
179	15.6	12.4	18.6

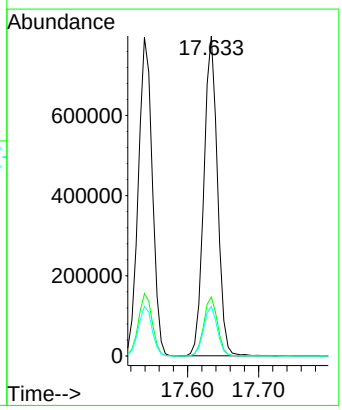


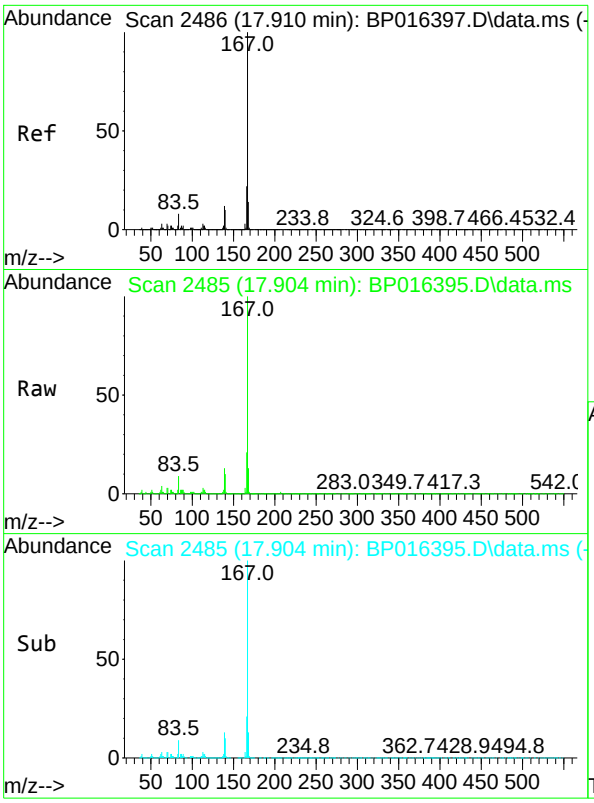


#72
Anthracene
Concen: 10.215 ng
RT: 17.633 min Scan# 2439
Delta R.T. -0.000 min
Lab File: BP016395.D
Acq: 27 Jul 2023 12:12

Tgt Ion:178 Resp: 1064626

Ion	Ratio	Lower	Upper
178	100		
176	18.5	15.2	22.8
179	15.5	12.6	19.0



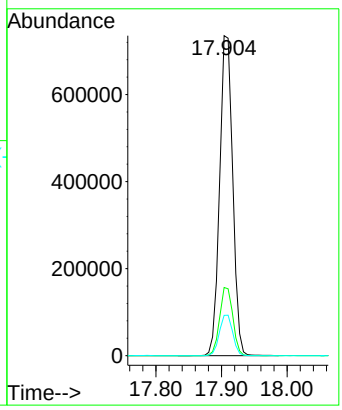


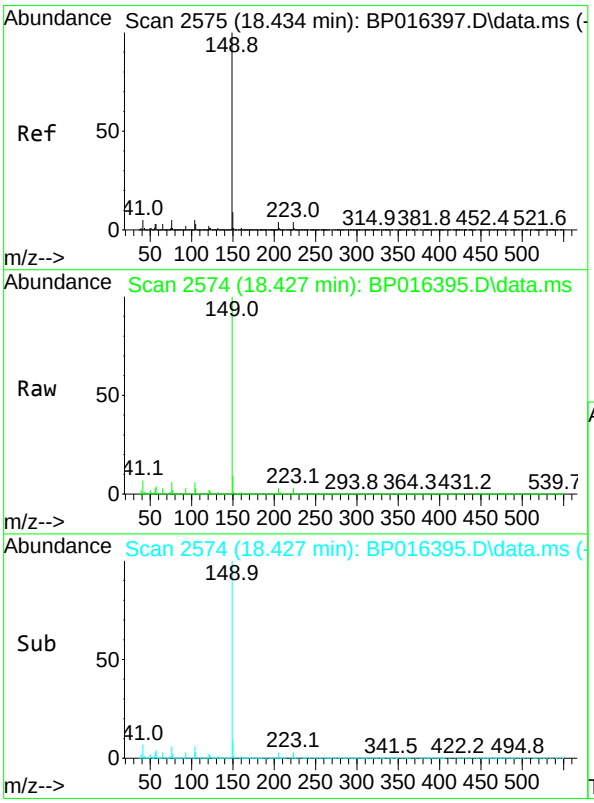
#73
Carbazole
Concen: 10.357 ng
RT: 17.904 min Scan# 24
Delta R.T. -0.006 min
Lab File: BP016395.D
Acq: 27 Jul 2023 12:12

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:167 Resp: 1011979

Ion	Ratio	Lower	Upper
167	100		
166	21.3	17.2	25.8
139	12.6	9.9	14.9

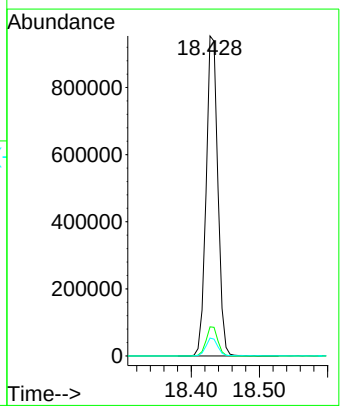


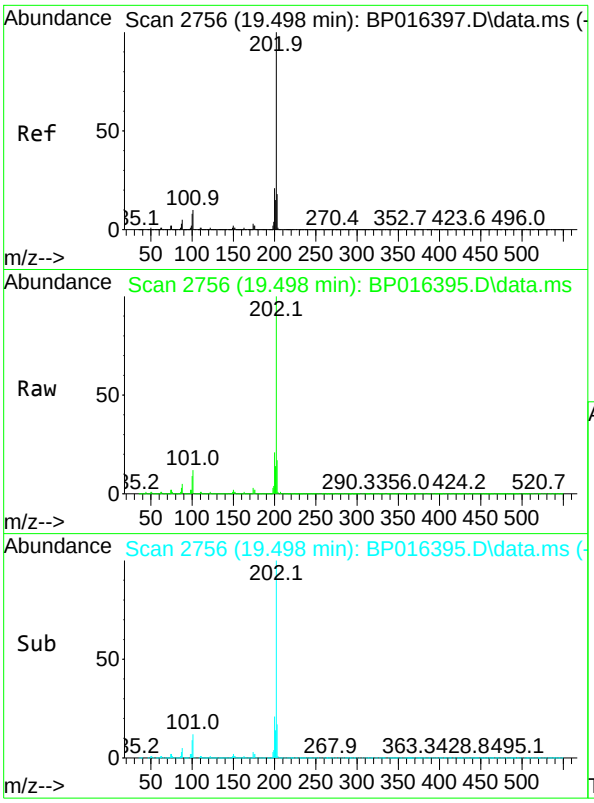


#74
Di-n-butylphthalate
Concen: 10.057 ng
RT: 18.427 min Scan# 2574
Delta R.T. -0.006 min
Lab File: BP016395.D
Acq: 27 Jul 2023 12:12

Tgt Ion:149 Resp: 1136892

Ion	Ratio	Lower	Upper
149	100		
150	9.1	7.4	11.2
104	5.6	3.8	5.8



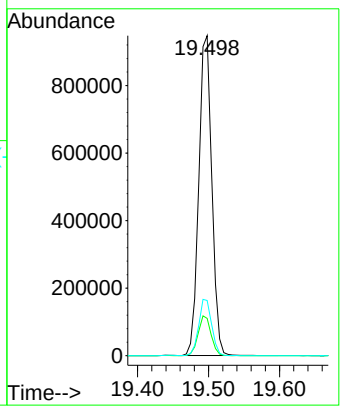


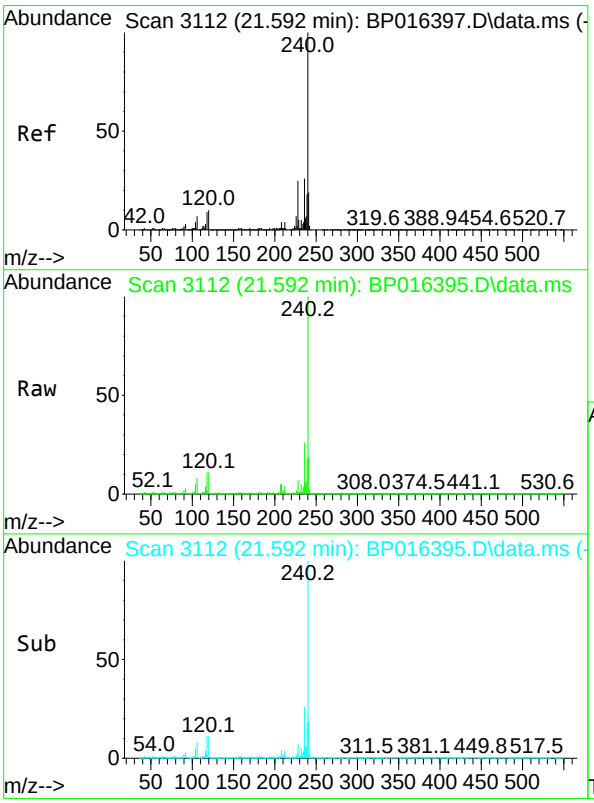
#75
Fluoranthene
Concen: 9.969 ng
RT: 19.498 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP016395.D
Acq: 27 Jul 2023 12:12

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:202 Resp: 1211063

Ion	Ratio	Lower	Upper
202	100		
101	11.7	0.0	30.2
203	17.2	0.0	37.9

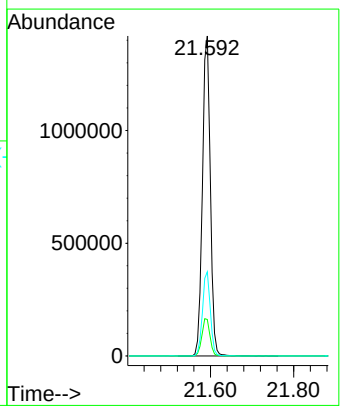


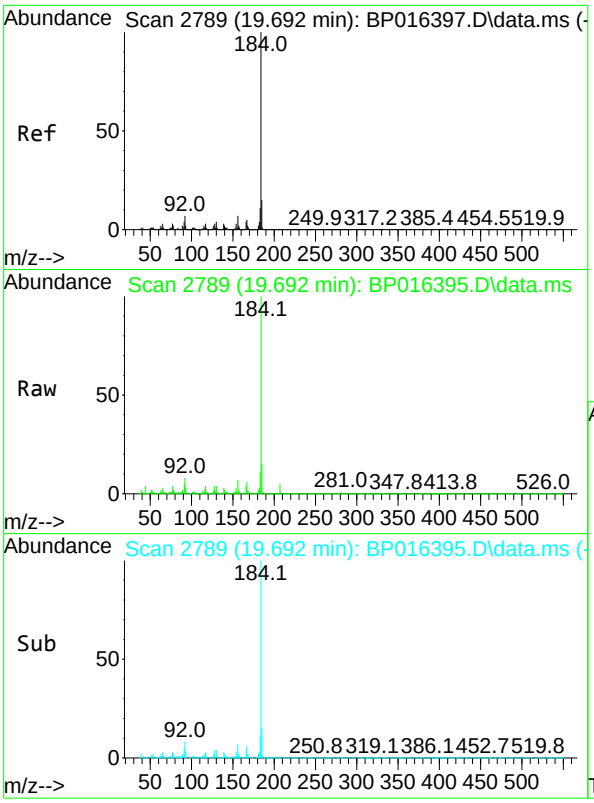


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.592 min Scan# 3112
Delta R.T. -0.000 min
Lab File: BP016395.D
Acq: 27 Jul 2023 12:12

Tgt Ion:240 Resp: 1869811

Ion	Ratio	Lower	Upper
240	100		
120	11.4	7.9	11.9
236	26.3	21.1	31.7



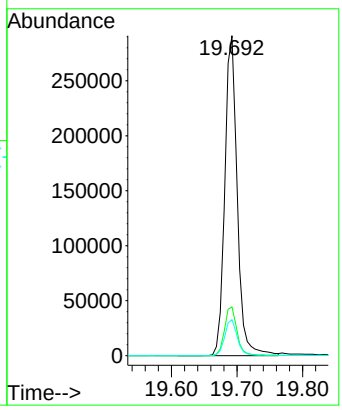


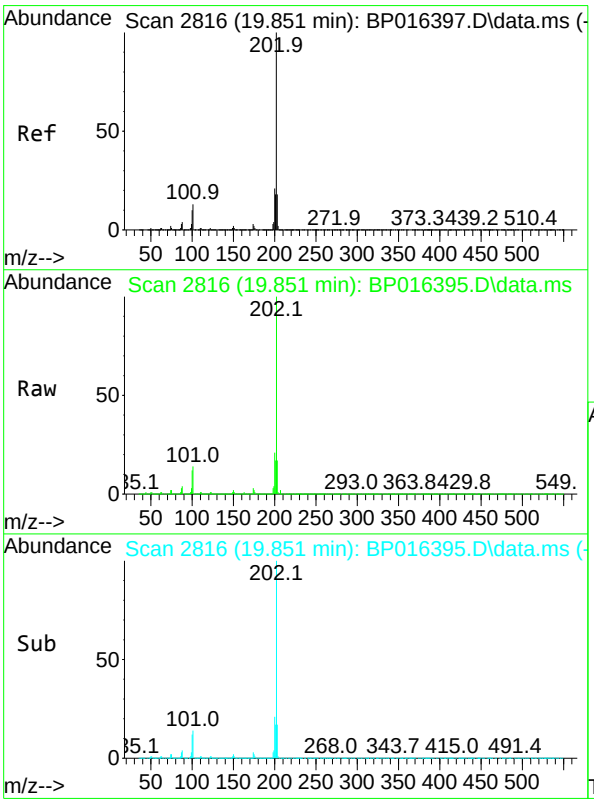
#77
Benzidine
Concen: 11.789 ng
RT: 19.692 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP016395.D
Acq: 27 Jul 2023 12:12

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:184 Resp: 382172

Ion	Ratio	Lower	Upper
184	100		
185	15.2	12.0	18.0
183	11.3	9.2	13.8

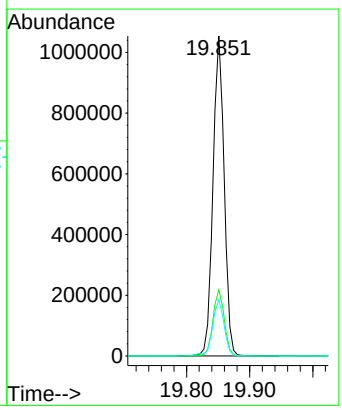


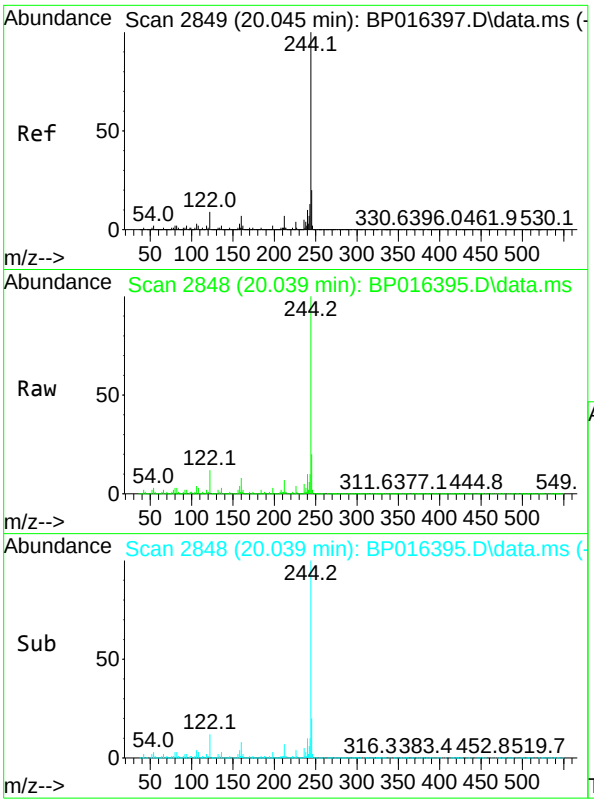


#78
Pyrene
Concen: 10.316 ng
RT: 19.851 min Scan# 2816
Delta R.T. -0.000 min
Lab File: BP016395.D
Acq: 27 Jul 2023 12:12

Tgt Ion:202 Resp: 1292993

Ion	Ratio	Lower	Upper
202	100		
200	20.6	17.1	25.7
203	17.4	14.4	21.6



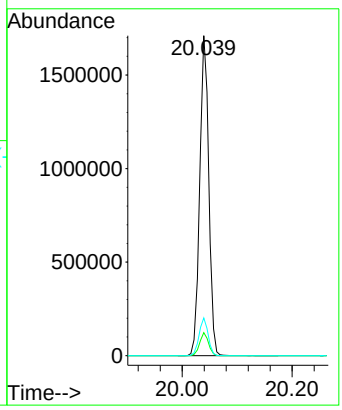


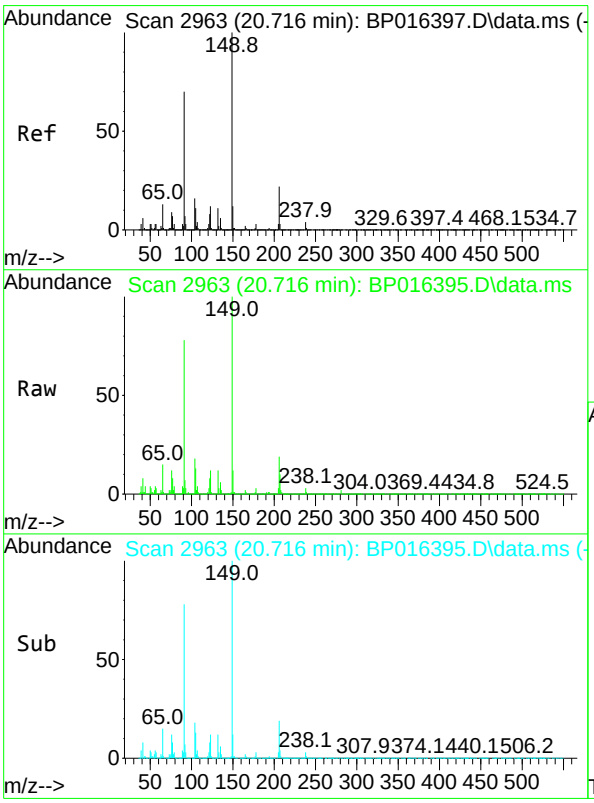
#79
Terphenyl-d14
Concen: 22.099 ng
RT: 20.039 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP016395.D
Acq: 27 Jul 2023 12:12

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:244 Resp: 1956104

Ion	Ratio	Lower	Upper
244	100		
212	7.2	5.6	8.4
122	11.8	7.4	11.2#

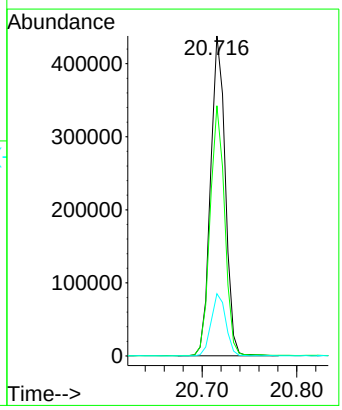


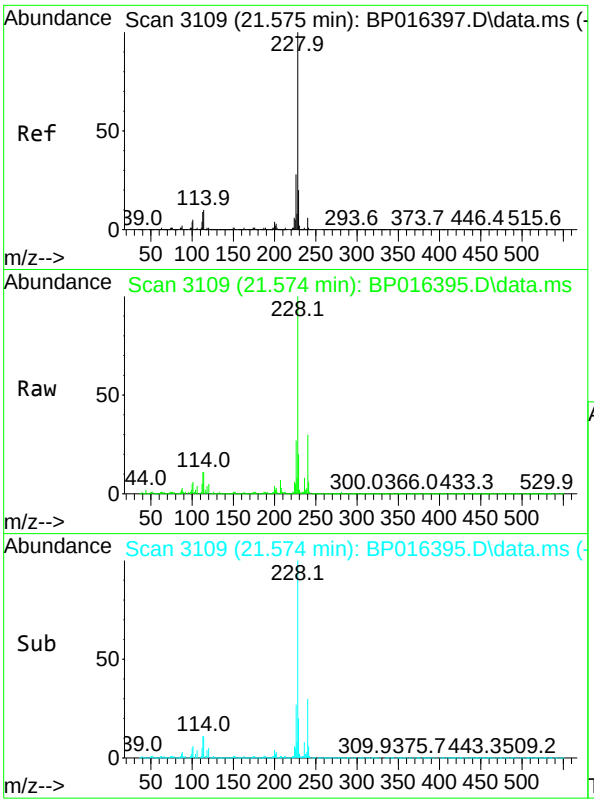


#80
Butylbenzylphthalate
Concen: 9.578 ng
RT: 20.716 min Scan# 2963
Delta R.T. -0.000 min
Lab File: BP016395.D
Acq: 27 Jul 2023 12:12

Tgt Ion:149 Resp: 471642

Ion	Ratio	Lower	Upper
149	100		
91	78.2	56.1	84.1
206	19.5	17.8	26.6



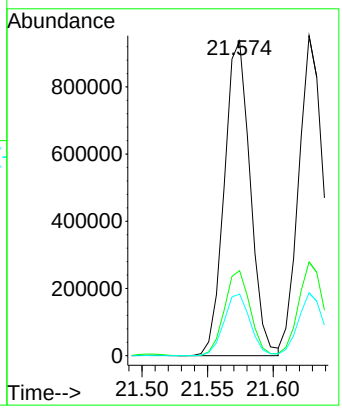


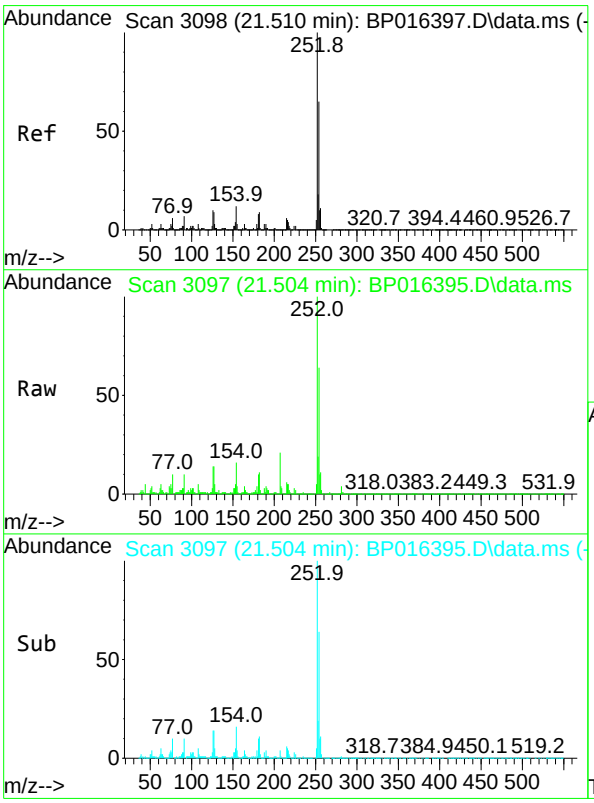
#81
Benzo(a)anthracene
Concen: 10.280 ng
RT: 21.574 min Scan# 31
Delta R.T. -0.000 min
Lab File: BP016395.D
Acq: 27 Jul 2023 12:12

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:228 Resp: 1289623

Ion	Ratio	Lower	Upper
228	100		
226	27.0	22.4	33.6
229	19.6	16.2	24.4

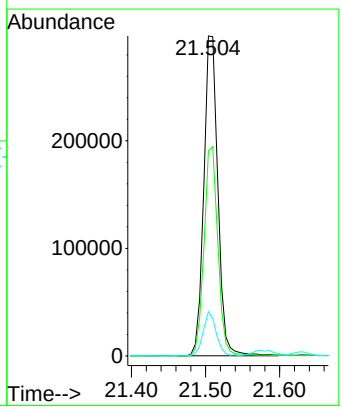


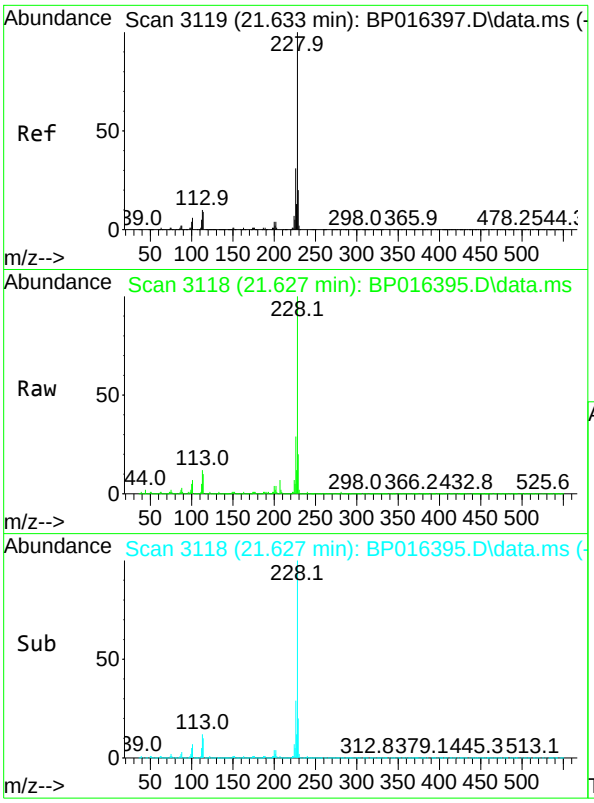


#82
3,3'-Dichlorobenzidine
Concen: 9.525 ng
RT: 21.504 min Scan# 3097
Delta R.T. -0.006 min
Lab File: BP016395.D
Acq: 27 Jul 2023 12:12

Tgt Ion:252 Resp: 392282

Ion	Ratio	Lower	Upper
252	100		
254	64.2	52.2	78.2
126	13.8	7.8	11.6#



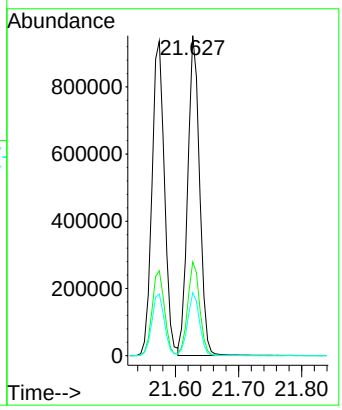


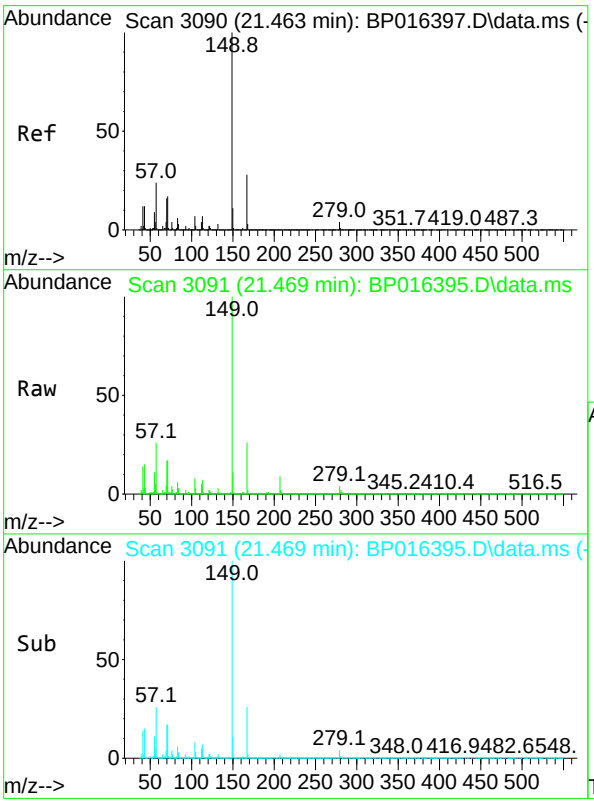
#83
Chrysene
Concen: 10.392 ng
RT: 21.627 min Scan# 3
Delta R.T. -0.006 min
Lab File: BP016395.D
Acq: 27 Jul 2023 12:12

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:228 Resp: 1244950

Ion	Ratio	Lower	Upper
228	100		
226	29.3	24.6	37.0
229	19.7	16.0	24.0

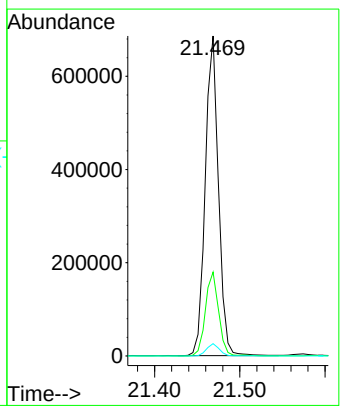


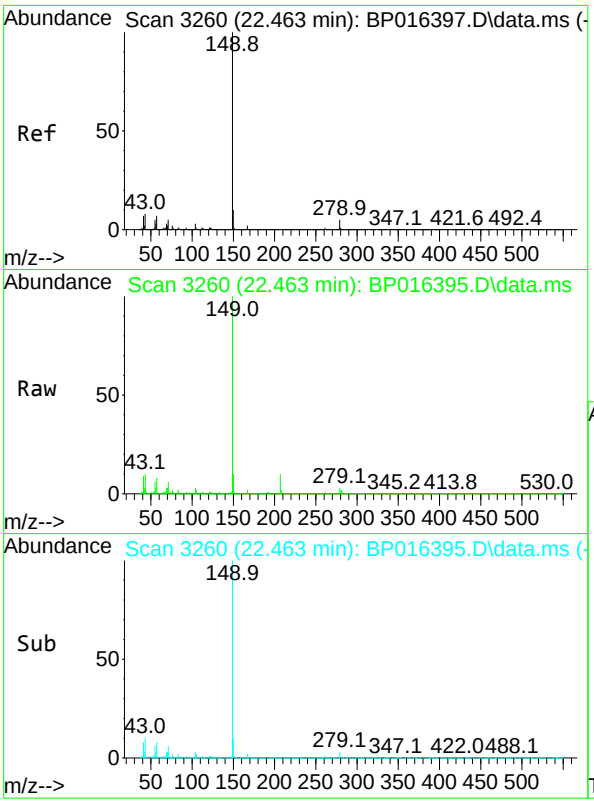


#84
Bis(2-ethylhexyl)phthalate
Concen: 9.974 ng
RT: 21.469 min Scan# 3091
Delta R.T. 0.006 min
Lab File: BP016395.D
Acq: 27 Jul 2023 12:12

Tgt Ion:149 Resp: 737348

Ion	Ratio	Lower	Upper
149	100		
167	26.2	22.5	33.7
279	3.9	3.6	5.4



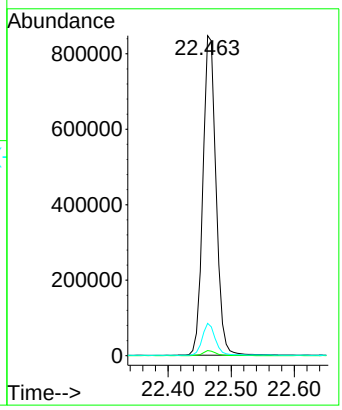


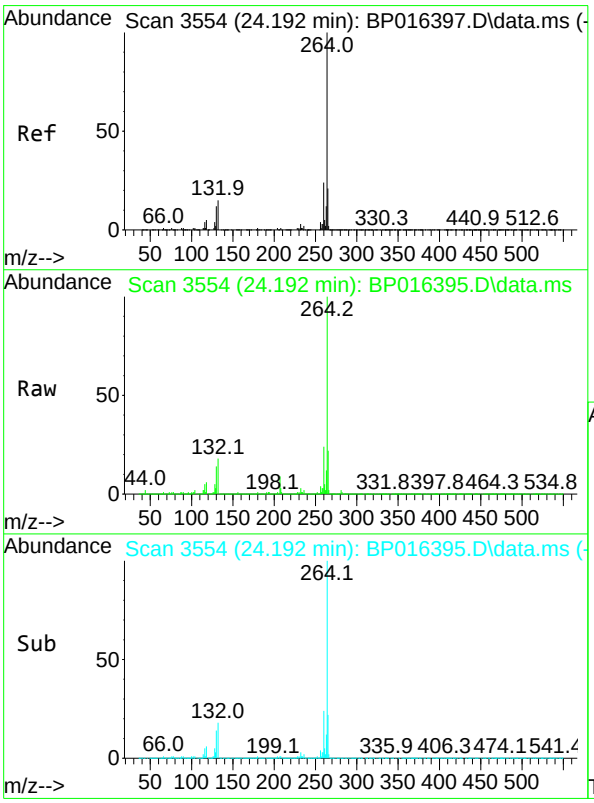
#85
Di-n-octyl phthalate
Concen: 9.844 ng
RT: 22.463 min Scan# 3
Delta R.T. -0.000 min
Lab File: BP016395.D
Acq: 27 Jul 2023 12:12

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:149 Resp: 1224013

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	10.0	6.6	9.8#

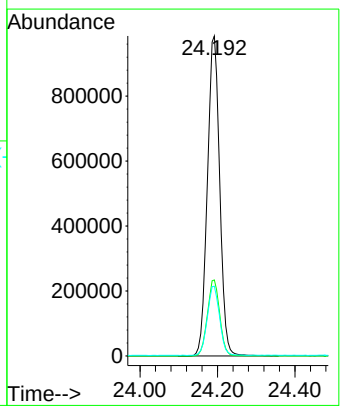


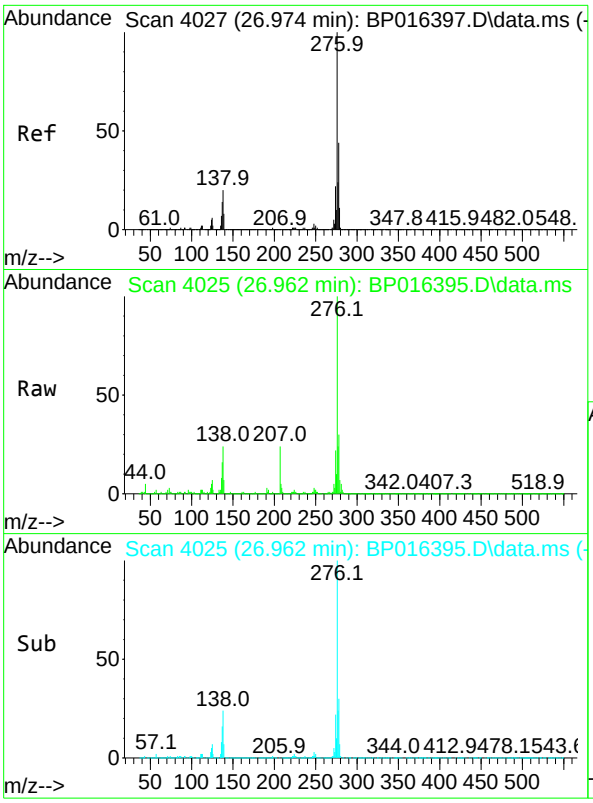


#86
Perylene-d12
Concen: 20.000 ng
RT: 24.192 min Scan# 3554
Delta R.T. -0.000 min
Lab File: BP016395.D
Acq: 27 Jul 2023 12:12

Tgt Ion:264 Resp: 2170848

Ion	Ratio	Lower	Upper
264	100		
260	23.7	19.3	28.9
265	21.8	17.4	26.0



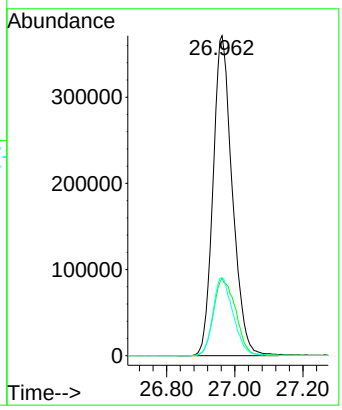


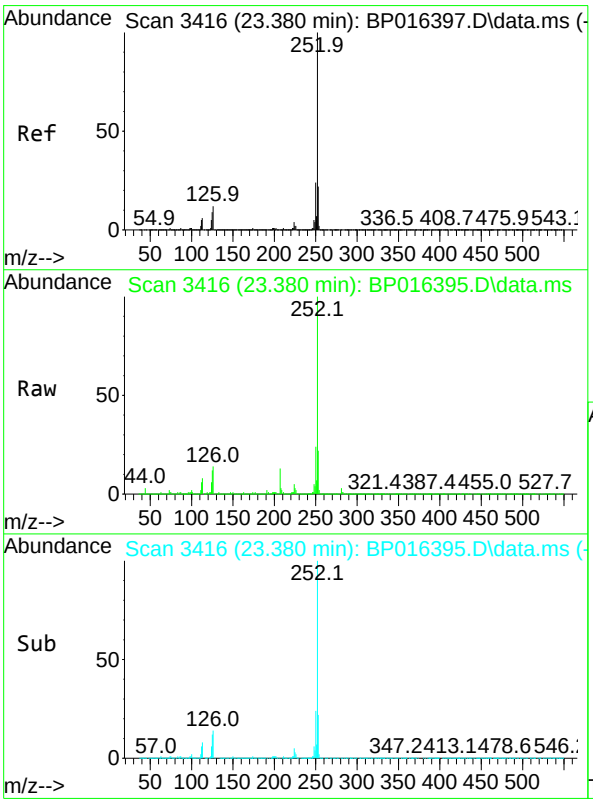
#87
Indeno(1,2,3-cd)pyrene
Concen: 9.948 ng
RT: 26.962 min Scan# 4(
Delta R.T. -0.012 min
Lab File: BP016395.D
Acq: 27 Jul 2023 12:12

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:276 Resp: 1455940

Ion	Ratio	Lower	Upper
276	100		
138	27.7	18.4	27.6#
277	25.4	20.4	30.6

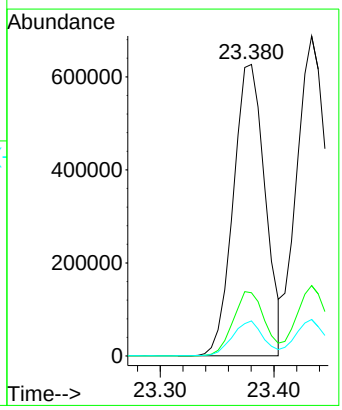


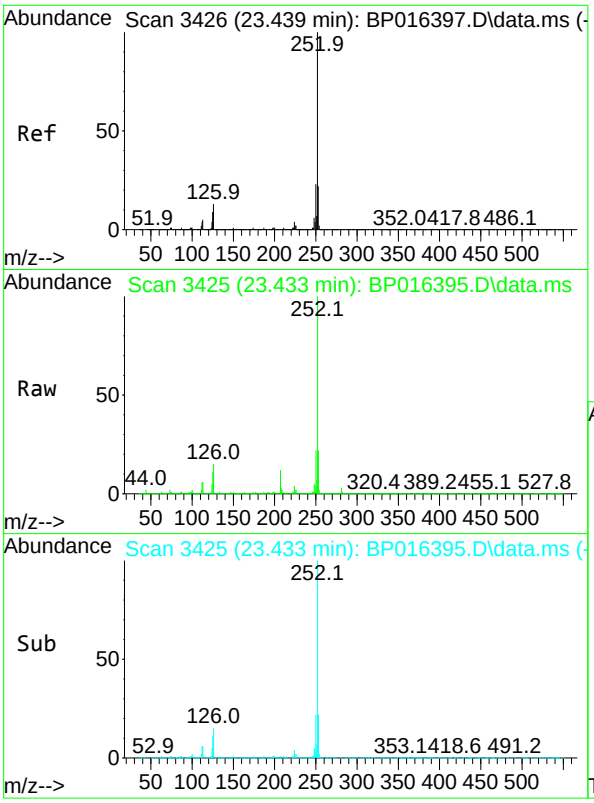


#88
Benzo(b)fluoranthene
Concen: 9.689 ng
RT: 23.380 min Scan# 3416
Delta R.T. -0.000 min
Lab File: BP016395.D
Acq: 27 Jul 2023 12:12

Tgt Ion:252 Resp: 1219111

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.8	26.8
125	12.0	7.4	11.2#



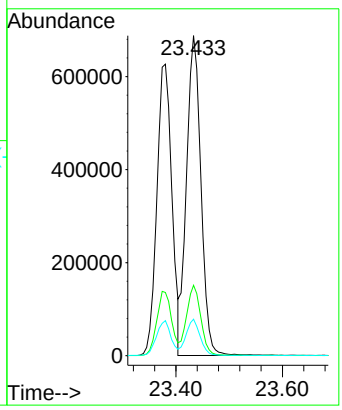


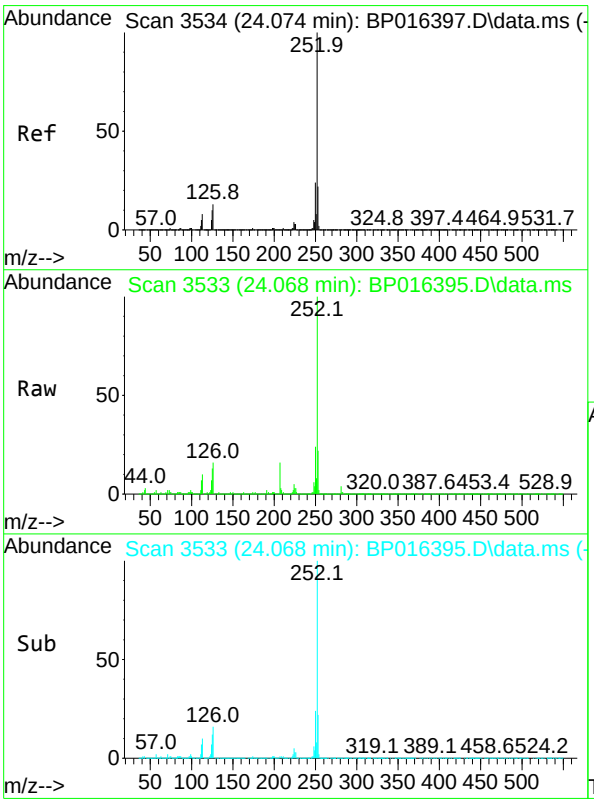
#89
Benzo(k)fluoranthene
Concen: 10.121 ng
RT: 23.433 min Scan# 34
Delta R.T. -0.006 min
Lab File: BP016395.D
Acq: 27 Jul 2023 12:12

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:252 Resp: 1295252

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.8	26.8
125	11.4	7.1	10.7#

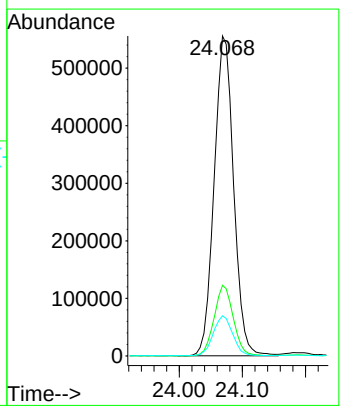


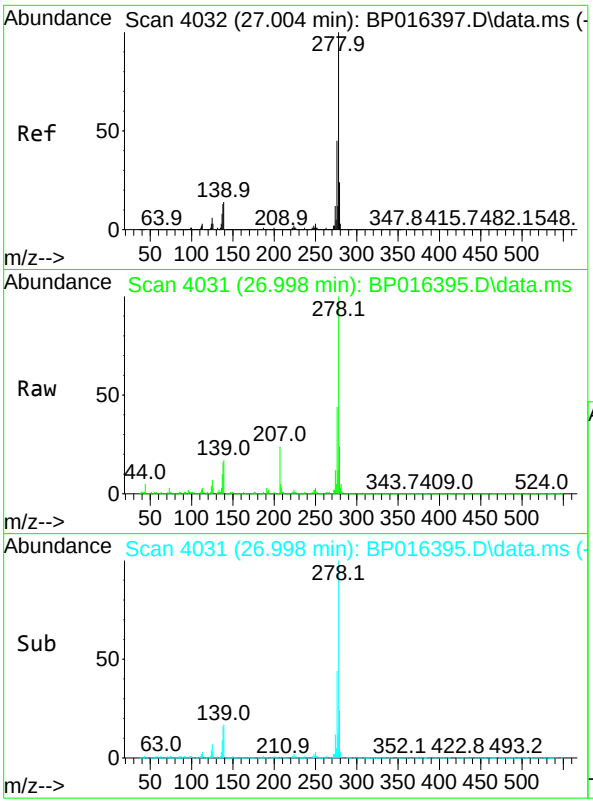


#90
Benzo(a)pyrene
Concen: 9.758 ng
RT: 24.068 min Scan# 3533
Delta R.T. -0.006 min
Lab File: BP016395.D
Acq: 27 Jul 2023 12:12

Tgt Ion:252 Resp: 1189402

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.8	26.6
125	12.6	8.3	12.5#



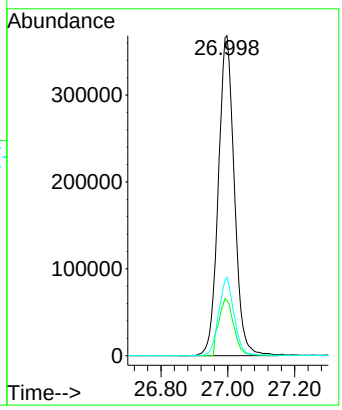


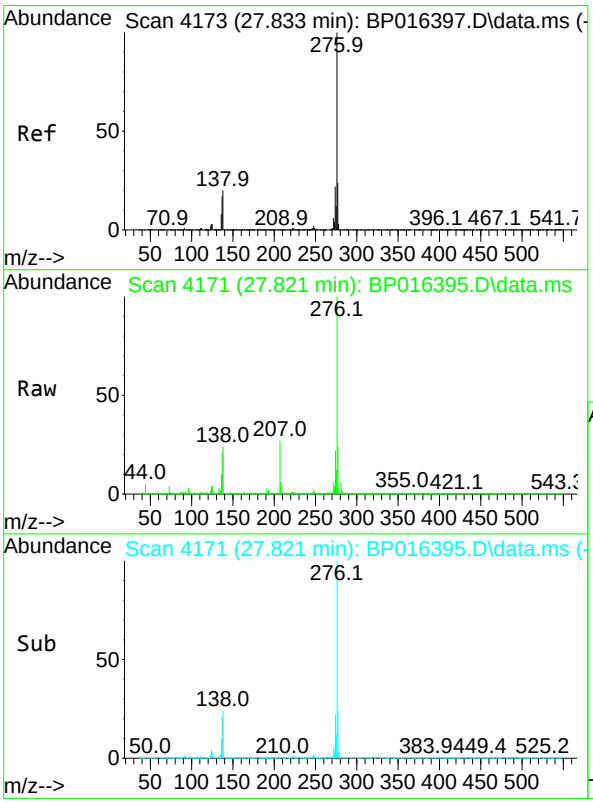
#91
Dibenzo(a,h)anthracene
Concen: 10.037 ng
RT: 26.998 min Scan# 4
Delta R.T. -0.006 min
Lab File: BP016395.D
Acq: 27 Jul 2023 12:12

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:278 Resp: 1225056

Ion	Ratio	Lower	Upper
278	100		
139	17.1	11.6	17.4
279	24.5	19.0	28.6

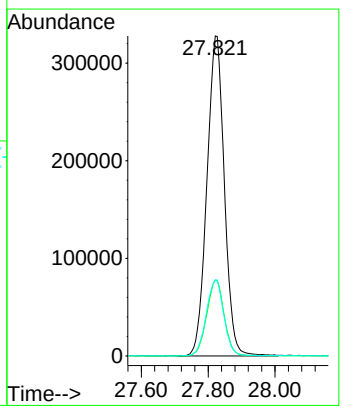




#92
Benzo(g,h,i)perylene
Concen: 10.097 ng
RT: 27.821 min Scan# 4171
Delta R.T. -0.012 min
Lab File: BP016395.D
Acq: 27 Jul 2023 12:12

Tgt Ion:276 Resp: 1187615

Ion	Ratio	Lower	Upper
276	100		
277	23.7	19.2	28.8
138	23.8	16.1	24.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP072723\
Data File : BP016396.D
Acq On : 27 Jul 2023 12:46
Operator : MA/JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Quant Time: Jul 27 17:36:02 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP072723.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jul 27 17:32:49 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	8.093	152	390719	20.000	ng		0.00
21) Naphthalene-d8	10.928	136	1597219	20.000	ng		0.00
39) Acenaphthene-d10	14.734	164	966710	20.000	ng		0.00
64) Phenanthrene-d10	17.498	188	2120090	20.000	ng		0.00
76) Chrysene-d12	21.586	240	2013573	20.000	ng	#	0.00
86) Perylene-d12	24.186	264	2252321	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.599	112	1045081	43.636	ng		0.00
7) Phenol-d6	7.222	99	1433364	43.664	ng		0.00
23) Nitrobenzene-d5	9.287	82	1231721	43.169	ng		0.00
42) 2,4,6-Tribromophenol	16.228	330	494661	34.782	ng		0.00
45) 2-Fluorobiphenyl	13.363	172	2870657	42.573	ng		0.00
79) Terphenyl-d14	20.039	244	4314259	45.260	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.458	88	209337	22.411	ng		98
3) Pyridine	3.875	79	611079	22.234	ng		100
4) n-Nitrosodimethylamine	3.805	42	233705	22.200	ng	#	99
6) Aniline	7.422	93	877209	21.634	ng		99
8) 2-Chlorophenol	7.640	128	540527	21.525	ng		95
9) Benzaldehyde	7.240	77	398011	22.249	ng		95
10) Phenol	7.252	94	695620	21.821	ng		100
11) bis(2-Chloroethyl)ether	7.522	93	559231	21.580	ng		98
12) 1,3-Dichlorobenzene	7.975	146	575713	21.356	ng		97
13) 1,4-Dichlorobenzene	8.128	146	584507	21.375	ng		98
14) 1,2-Dichlorobenzene	8.446	146	563435	21.400	ng		100
15) Benzyl Alcohol	8.340	79	478122	21.319	ng		97
16) 2,2'-oxybis(1-Chloropr...	8.610	45	646506	21.998	ng		98
17) 2-Methylphenol	8.522	107	493516	21.481	ng		96
18) Hexachloroethane	9.169	117	210946	21.627	ng		93
19) n-Nitroso-di-n-propyla...	8.910	70	442188	21.502	ng		97
20) 3+4-Methylphenols	8.852	107	663010	21.248	ng		99
22) Acetophenone	8.940	105	861604	21.365	ng	#	99
24) Nitrobenzene	9.328	77	627957	21.428	ng		95
25) Isophorone	9.840	82	1216771	21.123	ng		98
26) 2-Nitrophenol	10.034	139	219791	19.393	ng		94
27) 2,4-Dimethylphenol	10.069	122	547179	21.232	ng		97
28) bis(2-Chloroethoxy)met...	10.334	93	746026	21.143	ng		99
29) 2,4-Dichlorophenol	10.551	162	491048	20.360	ng		97
30) 1,2,4-Trichlorobenzene	10.775	180	527386	20.188	ng		99
31) Naphthalene	10.975	128	1757683	21.039	ng		100
32) Benzoic acid	10.157	122	267876	20.054	ng		99
33) 4-Chloroaniline	11.099	127	788116	20.913	ng		99
34) Hexachlorobutadiene	11.216	225	301386	19.487	ng		100
35) Caprolactam	11.893	113	183590	20.827	ng		96
36) 4-Chloro-3-methylphenol	12.187	107	562974	20.999	ng		98
37) 2-Methylnaphthalene	12.575	142	1248092	20.564	ng		99
38) 1-Methylnaphthalene	12.793	142	1172351	20.603	ng		99
40) 1,2,4,5-Tetrachloroben...	12.916	216	583585	19.865	ng		99
41) Hexachlorocyclopentadiene	12.875	237	281419	19.073	ng		98
43) 2,4,6-Trichlorophenol	13.163	196	380491	20.186	ng		98

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP072723\
Data File : BP016396.D
Acq On : 27 Jul 2023 12:46
Operator : MA/JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Quant Time: Jul 27 17:36:02 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP072723.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jul 27 17:32:49 2023
Response via : Initial Calibration

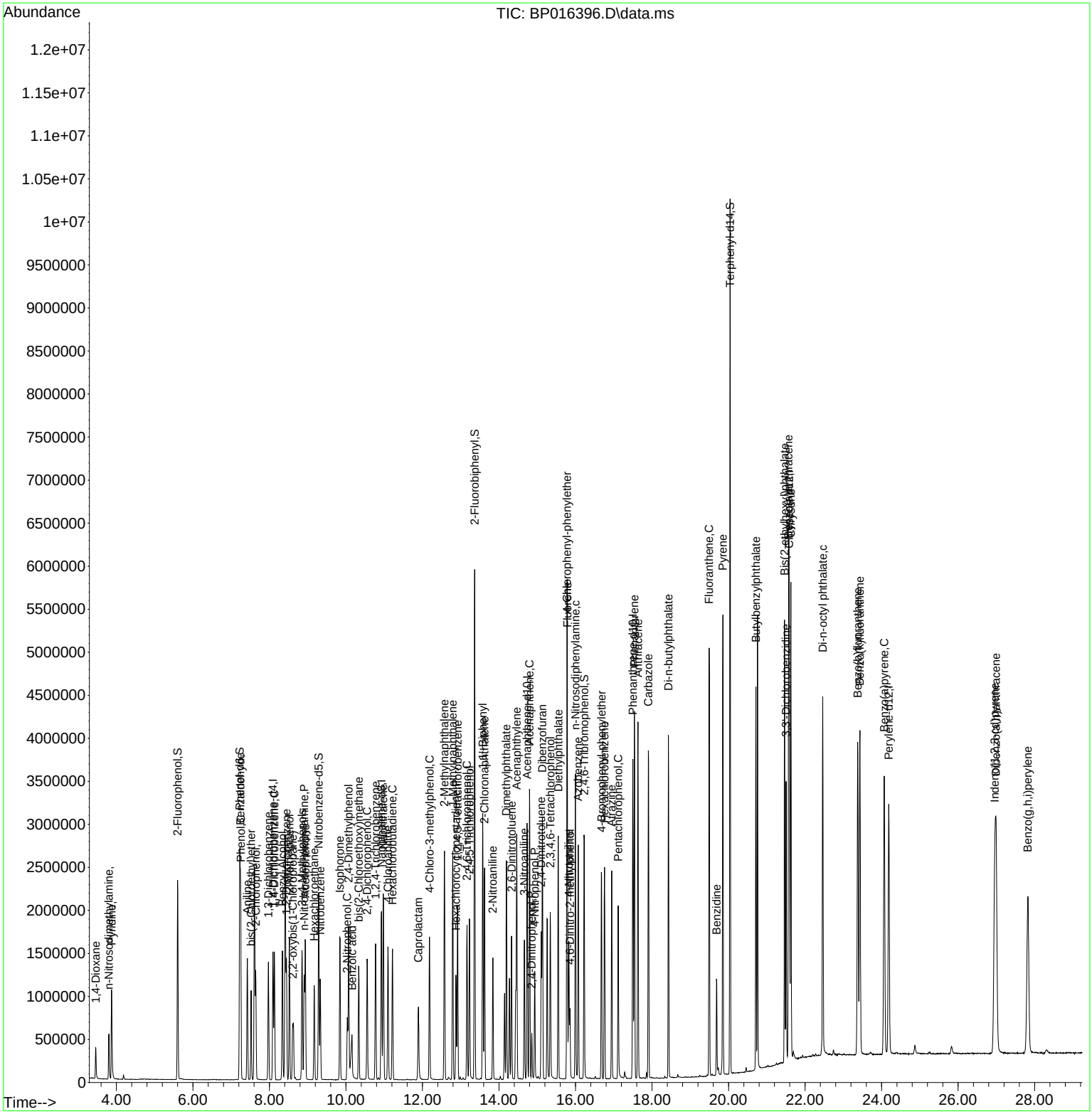
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	13.228	196	459783	20.105	ng		96
46) 1,1'-Biphenyl	13.575	154	1552303	21.065	ng		99
47) 2-Chloronaphthalene	13.622	162	1168245	21.014	ng		98
48) 2-Nitroaniline	13.840	65	338327	21.589	ng		98
49) Acenaphthylene	14.463	152	1970295	21.360	ng		99
50) Dimethylphthalate	14.192	163	1567681	20.810	ng		99
51) 2,6-Dinitrotoluene	14.328	165	319797	20.722	ng		89
52) Acenaphthene	14.798	154	1152326	21.008	ng		99
53) 3-Nitroaniline	14.663	138	365894	20.971	ng		91
54) 2,4-Dinitrophenol	14.857	184	94998	19.844	ng		93
55) Dibenzofuran	15.134	168	1890928	21.019	ng		98
56) 4-Nitrophenol	14.934	139	288458	21.120	ng		93
57) 2,4-Dinitrotoluene	15.104	165	415384	20.653	ng		92
58) Fluorene	15.787	166	1508591	21.345	ng		100
59) 2,3,4,6-Tetrachlorophenol	15.339	232	364574	19.380	ng		92
60) Diethylphthalate	15.551	149	1582396	21.137	ng		99
61) 4-Chlorophenyl-phenyle...	15.775	204	735241	20.615	ng		95
62) 4-Nitroaniline	15.828	138	370049	21.371	ng		96
63) Azobenzene	16.069	77	1580135	22.354	ng		94
65) 4,6-Dinitro-2-methylph...	15.857	198	152091	19.611	ng		93
66) n-Nitrosodiphenylamine	15.998	169	1334913	21.365	ng		99
67) 4-Bromophenyl-phenylether	16.681	248	440252	19.611	ng		94
68) Hexachlorobenzene	16.757	284	479271	19.144	ng		94
69) Atrazine	16.945	200	399843	21.518	ng		99
70) Pentachlorophenol	17.116	266	317177	18.308	ng		94
71) Phenanthrene	17.539	178	2385269	21.188	ng		99
72) Anthracene	17.633	178	2412631	21.313	ng		99
73) Carbazole	17.904	167	2290309	21.580	ng		99
74) Di-n-butylphthalate	18.428	149	2706830	22.045	ng		99
75) Fluoranthene	19.492	202	2778362	21.056	ng		98
77) Benzidine	19.686	184	588492	16.857	ng		99
78) Pyrene	19.851	202	2921026	21.640	ng		100
80) Butylbenzylphthalate	20.716	149	1173572	22.131	ng		95
81) Benzo(a)anthracene	21.569	228	2844924	21.058	ng		99
82) 3,3'-Dichlorobenzidine	21.504	252	883284	19.917	ng	#	96
83) Chrysene	21.627	228	2746352	21.288	ng		100
84) Bis(2-ethylhexyl)phtha...	21.463	149	1771980	22.257	ng		97
85) Di-n-octyl phthalate	22.463	149	2952468	22.050	ng		97
87) Indeno(1,2,3-cd)pyrene	26.956	276	3148504	20.735	ng		96
88) Benzo(b)fluoranthene	23.374	252	2723544	20.862	ng		98
89) Benzo(k)fluoranthene	23.433	252	2806259	21.134	ng		98
90) Benzo(a)pyrene	24.068	252	2630431	20.800	ng		98
91) Dibenzo(a,h)anthracene	26.992	278	2634790	20.806	ng		97
92) Benzo(g,h,i)perylene	27.821	276	2547298	20.874	ng		97

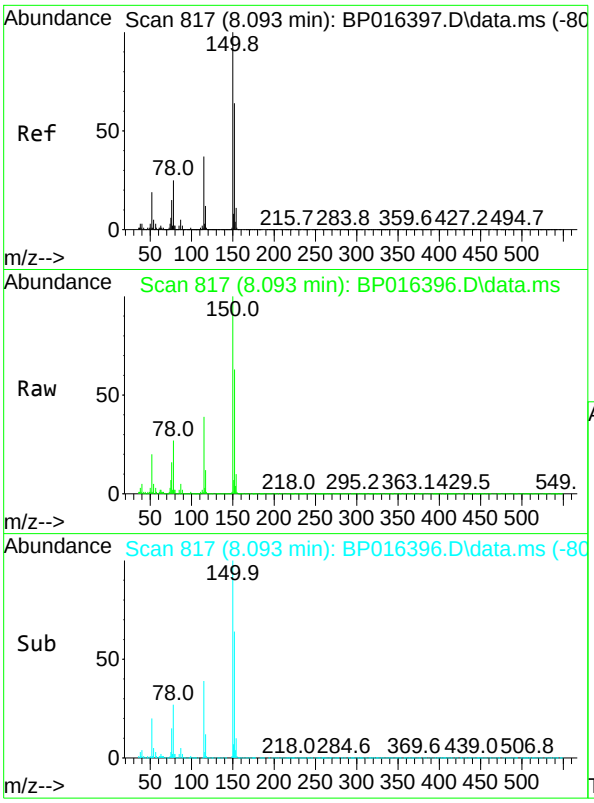
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP072723\
Data File : BP016396.D
Acq On : 27 Jul 2023 12:46
Operator : MA/JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Quant Time: Jul 27 17:36:02 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP072723.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jul 27 17:32:49 2023
Response via : Initial Calibration



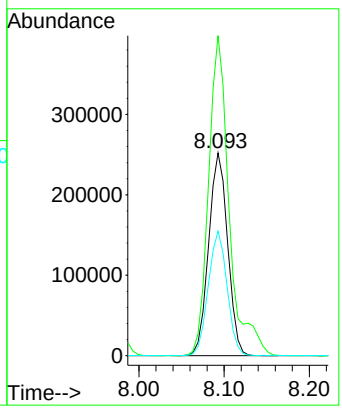


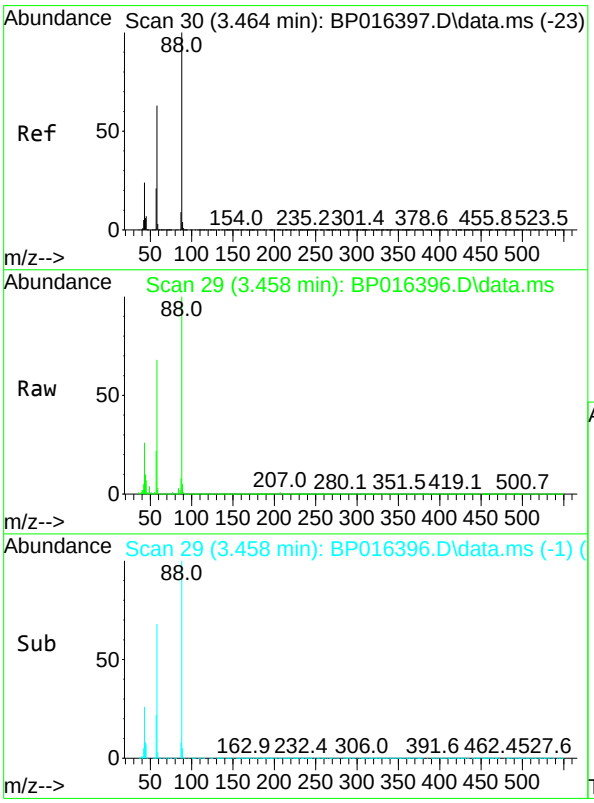
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.093 min Scan# 81
Delta R.T. -0.000 min
Lab File: BP016396.D
Acq: 27 Jul 2023 12:46

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:152 Resp: 390719

Ion	Ratio	Lower	Upper
152	100		
150	157.9	124.9	187.3
115	61.4	46.8	70.2

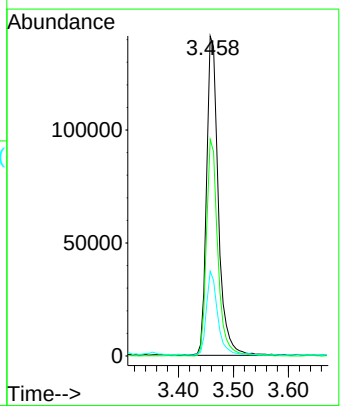


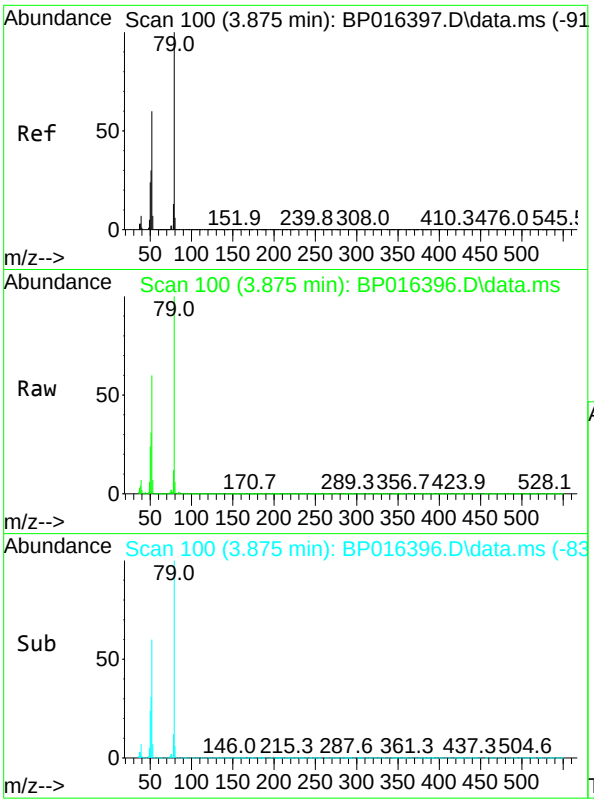


#2
1,4-Dioxane
Concen: 22.411 ng
RT: 3.458 min Scan# 29
Delta R.T. -0.006 min
Lab File: BP016396.D
Acq: 27 Jul 2023 12:46

Tgt Ion: 88 Resp: 209337

Ion	Ratio	Lower	Upper
88	100		
58	65.9	51.7	77.5
43	24.9	19.2	28.8



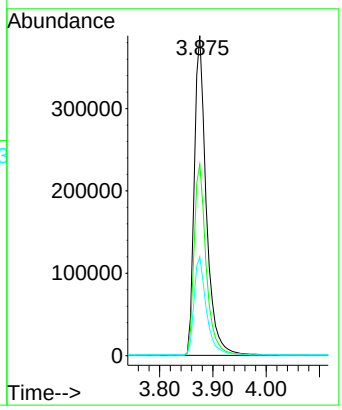


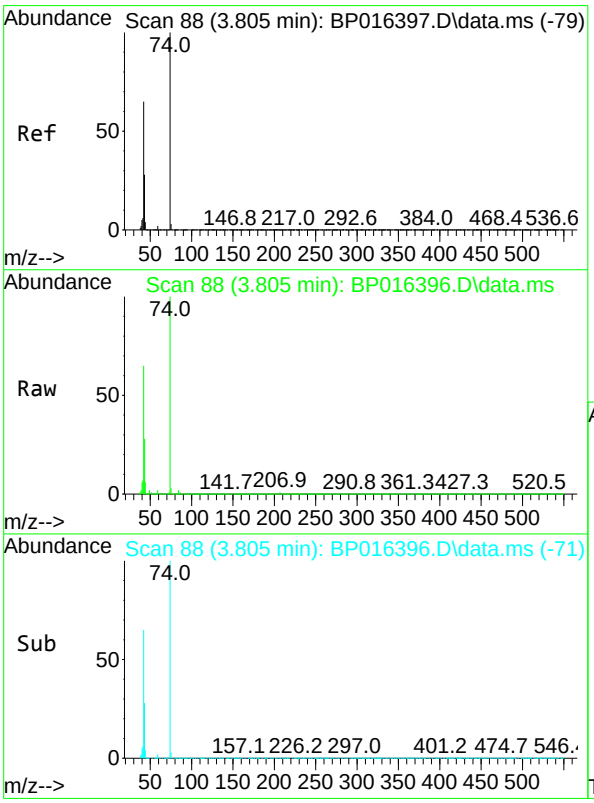
#3
Pyridine
Concen: 22.234 ng
RT: 3.875 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP016396.D
Acq: 27 Jul 2023 12:46

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion: 79 Resp: 611079

Ion	Ratio	Lower	Upper
79	100		
52	59.8	47.9	71.9
51	30.9	24.4	36.6

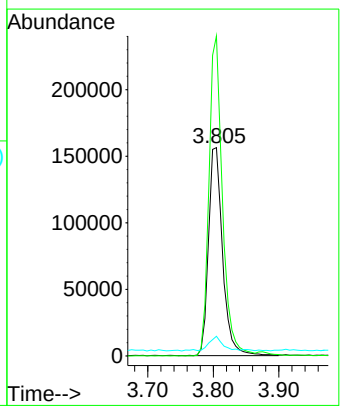


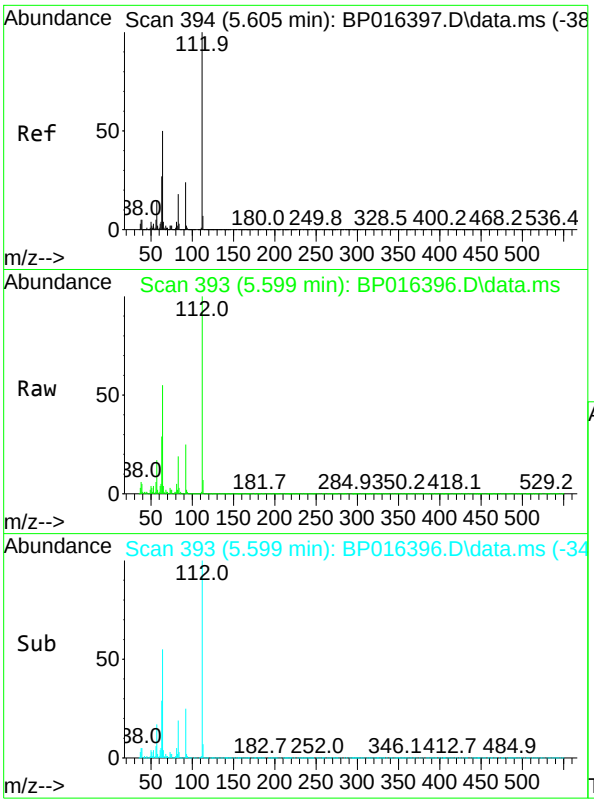


#4
n-Nitrosodimethylamine
Concen: 22.200 ng
RT: 3.805 min Scan# 88
Delta R.T. -0.000 min
Lab File: BP016396.D
Acq: 27 Jul 2023 12:46

Tgt Ion: 42 Resp: 233705

Ion	Ratio	Lower	Upper
42	100		
74	153.6	123.8	185.8
44	9.5	5.5	8.3#



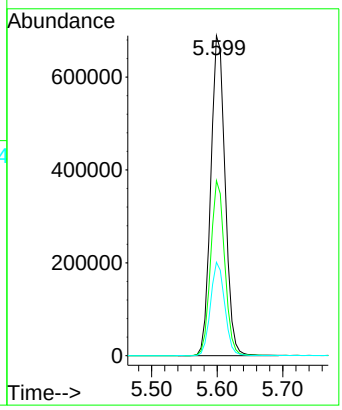


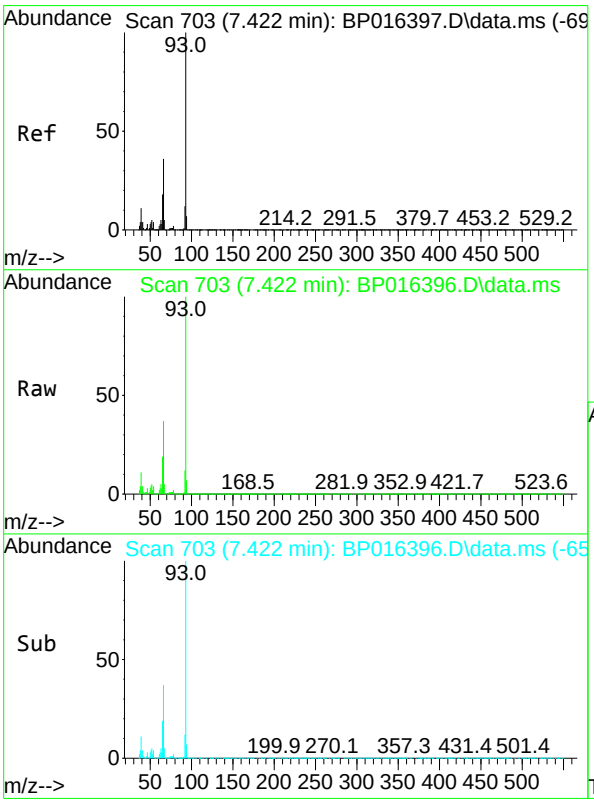
#5
2-Fluorophenol
Concen: 43.636 ng
RT: 5.599 min Scan# 3
Delta R.T. -0.006 min
Lab File: BP016396.D
Acq: 27 Jul 2023 12:46

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:112 Resp: 1045081

Ion	Ratio	Lower	Upper
112	100		
64	54.7	40.0	60.0
63	29.2	21.2	31.8

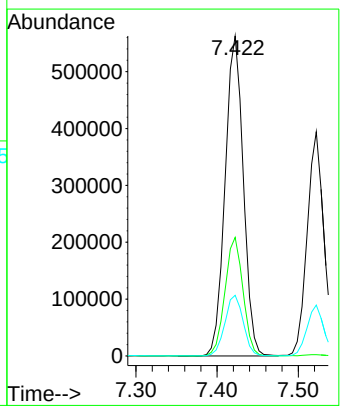


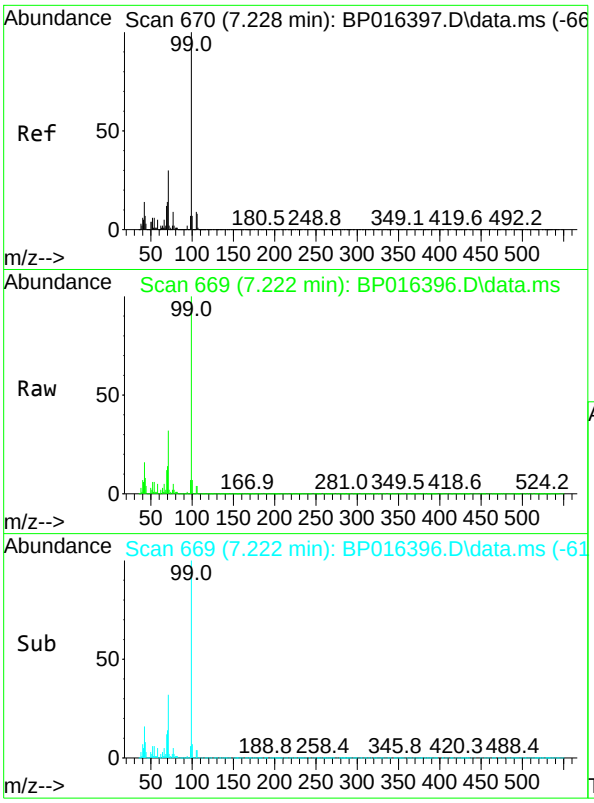


#6
Aniline
Concen: 21.634 ng
RT: 7.422 min Scan# 703
Delta R.T. -0.000 min
Lab File: BP016396.D
Acq: 27 Jul 2023 12:46

Tgt Ion: 93 Resp: 877209

Ion	Ratio	Lower	Upper
93	100		
66	37.0	28.9	43.3
65	18.9	14.7	22.1



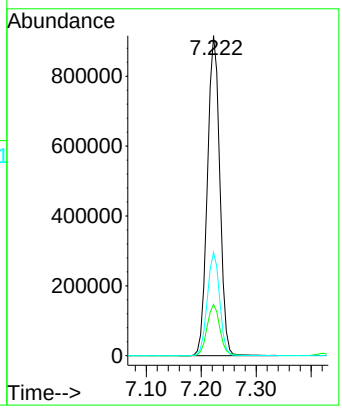


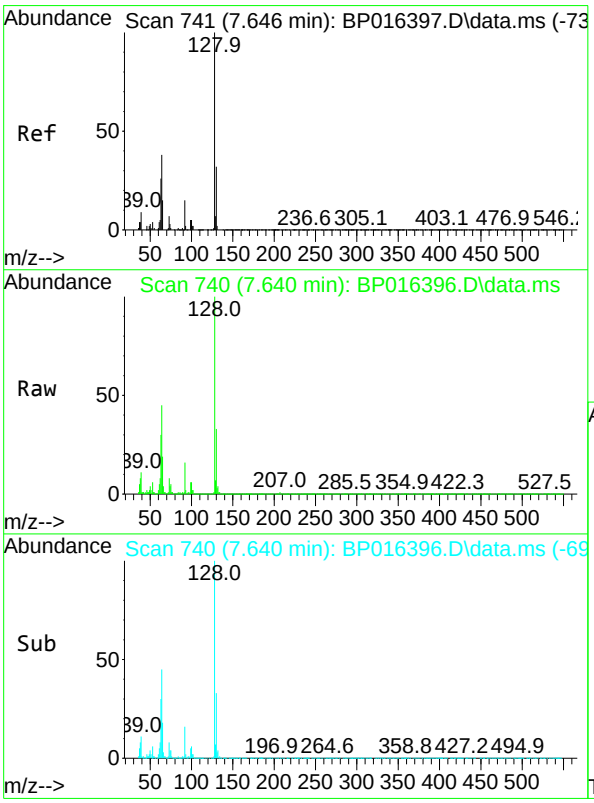
#7
Phenol-d6
Concen: 43.664 ng
RT: 7.222 min Scan# 6
Delta R.T. -0.006 min
Lab File: BP016396.D
Acq: 27 Jul 2023 12:46

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion: 99 Resp: 1433364

Ion	Ratio	Lower	Upper
99	100		
42	16.0	11.6	17.4
71	32.3	24.3	36.5

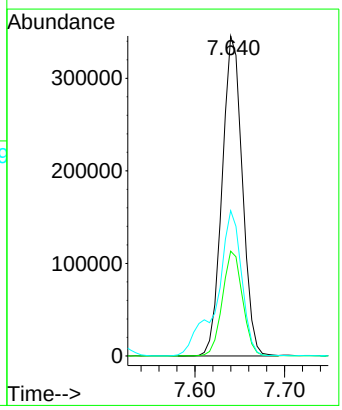


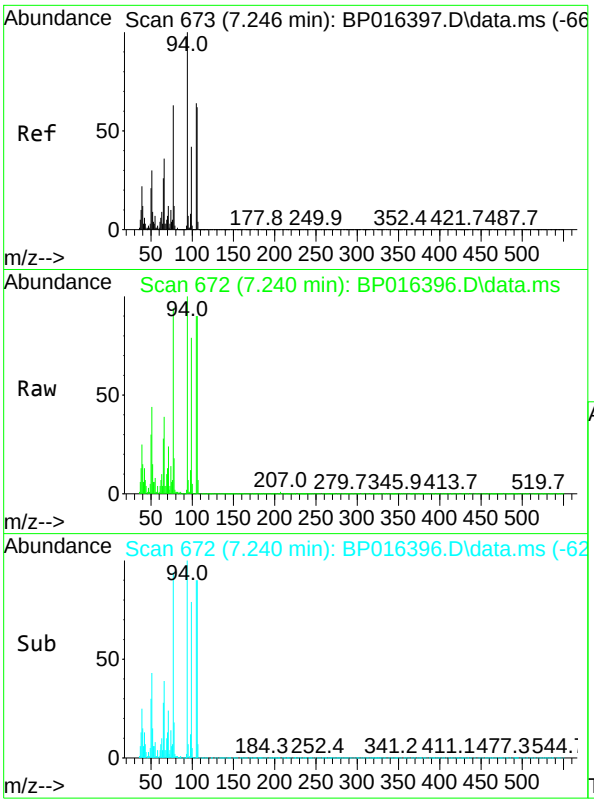


#8
2-Chlorophenol
Concen: 21.525 ng
RT: 7.640 min Scan# 740
Delta R.T. -0.006 min
Lab File: BP016396.D
Acq: 27 Jul 2023 12:46

Tgt Ion:128 Resp: 540527

Ion	Ratio	Lower	Upper
128	100		
130	32.8	11.6	51.6
64	45.4	20.6	60.6



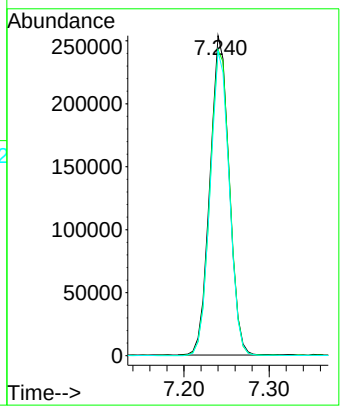


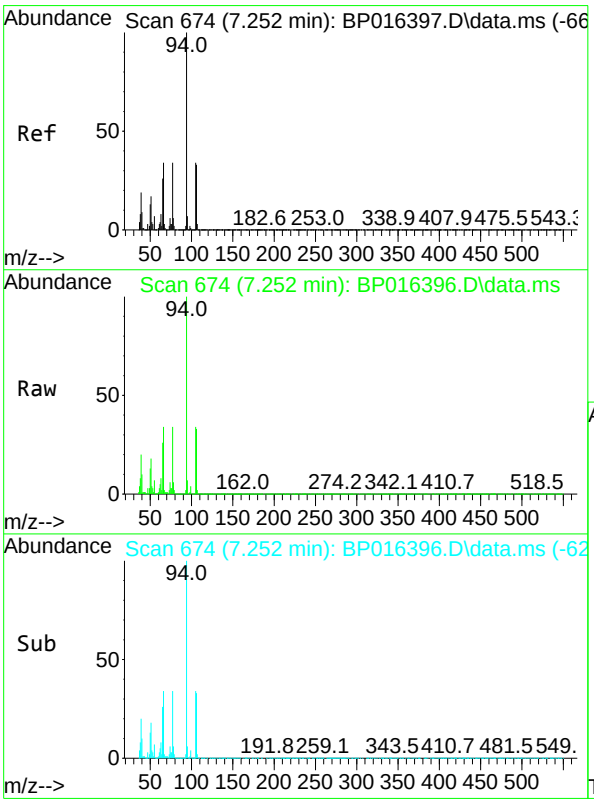
#9
Benzaldehyde
Concen: 22.249 ng
RT: 7.240 min Scan# 6
Delta R.T. -0.006 min
Lab File: BP016396.D
Acq: 27 Jul 2023 12:46

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion: 77 Resp: 398011

Ion	Ratio	Lower	Upper
77	100		
105	95.6	81.9	121.9
106	95.3	78.8	118.8

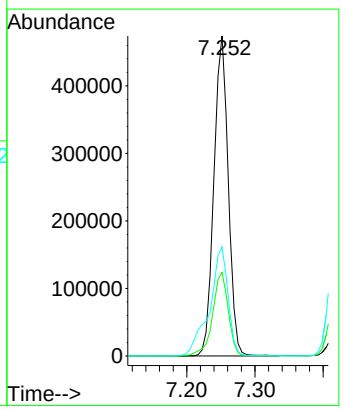


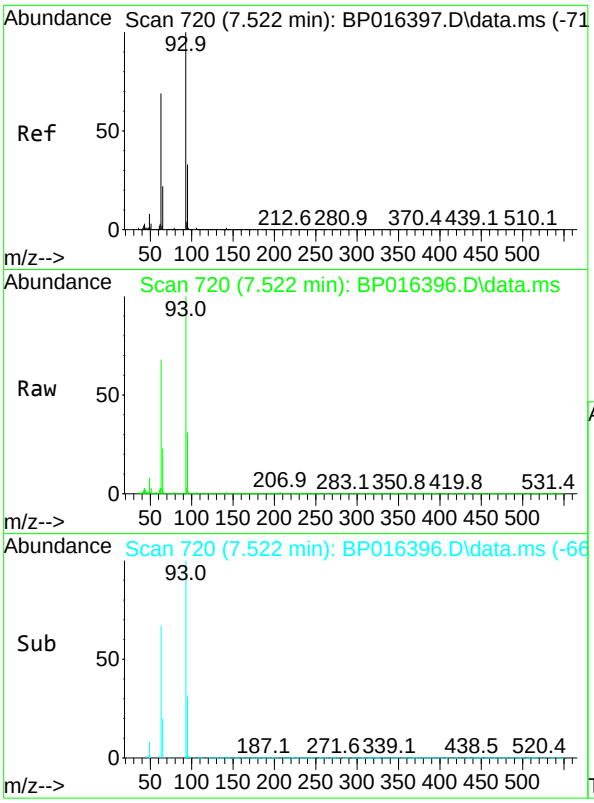


#10
Phenol
Concen: 21.821 ng
RT: 7.252 min Scan# 674
Delta R.T. -0.000 min
Lab File: BP016396.D
Acq: 27 Jul 2023 12:46

Tgt Ion: 94 Resp: 695620

Ion	Ratio	Lower	Upper
94	100		
65	26.1	5.9	45.9
66	34.1	14.3	54.3



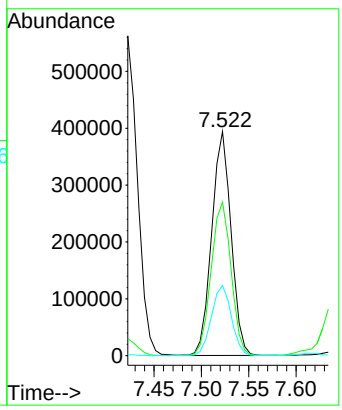


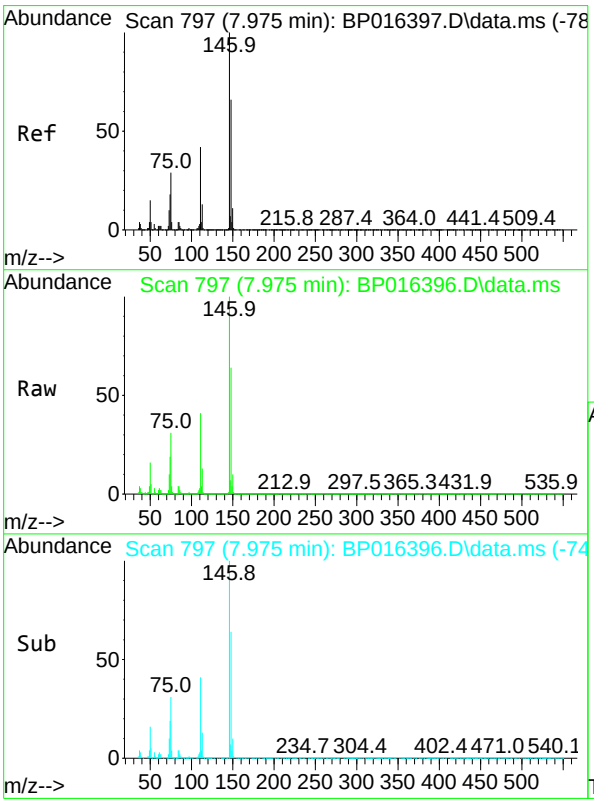
#11
bis(2-Chloroethyl)ether
Concen: 21.580 ng
RT: 7.522 min Scan# 7
Delta R.T. -0.000 min
Lab File: BP016396.D
Acq: 27 Jul 2023 12:46

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion: 93 Resp: 559231

Ion	Ratio	Lower	Upper
93	100		
63	68.5	49.4	89.4
95	31.3	12.9	52.9

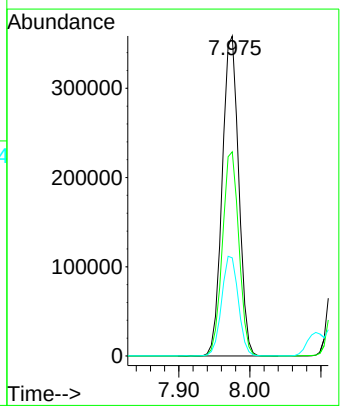


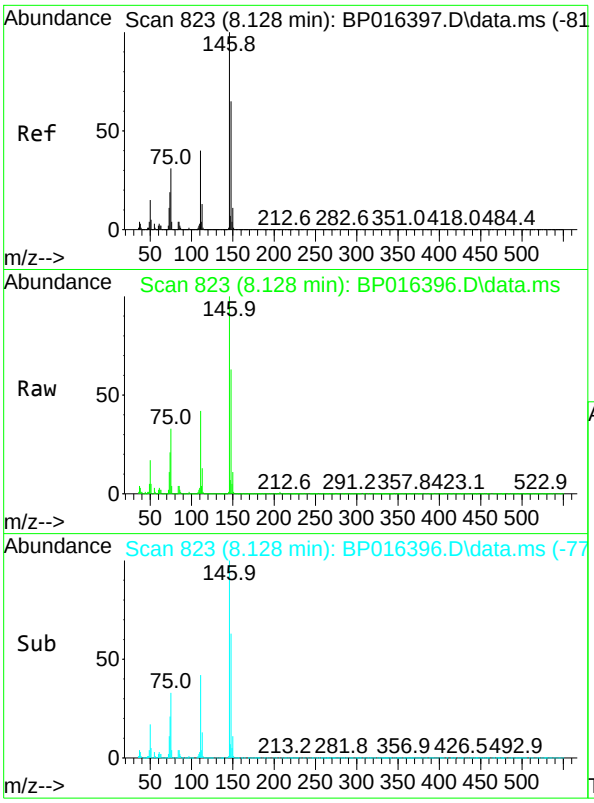


#12
1,3-Dichlorobenzene
Concen: 21.356 ng
RT: 7.975 min Scan# 797
Delta R.T. -0.000 min
Lab File: BP016396.D
Acq: 27 Jul 2023 12:46

Tgt Ion:146 Resp: 575713

Ion	Ratio	Lower	Upper
146	100		
148	63.8	53.0	79.4
75	30.7	23.4	35.2



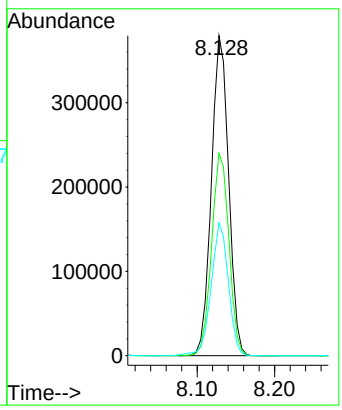


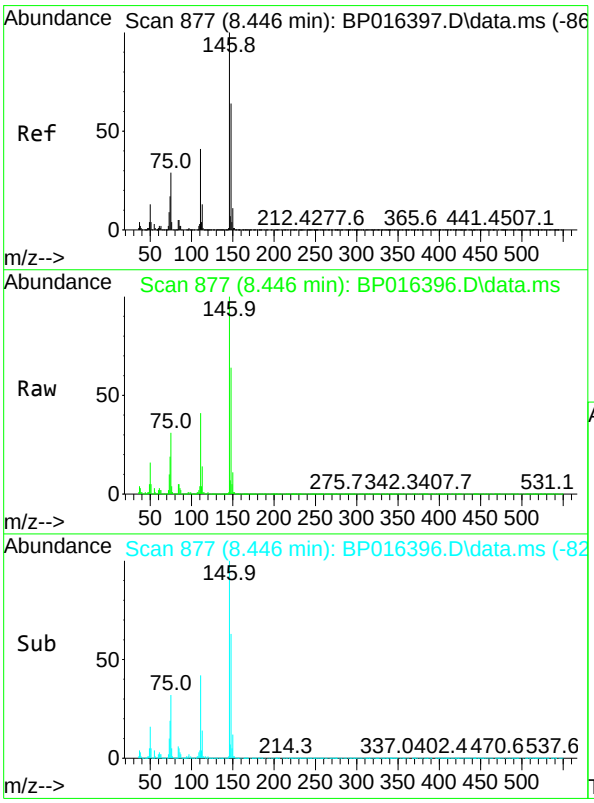
#13
1,4-Dichlorobenzene
Concen: 21.375 ng
RT: 8.128 min Scan# 8
Delta R.T. -0.000 min
Lab File: BP016396.D
Acq: 27 Jul 2023 12:46

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:146 Resp: 584507

Ion	Ratio	Lower	Upper
146	100		
148	63.2	51.7	77.5
111	41.5	32.0	48.0

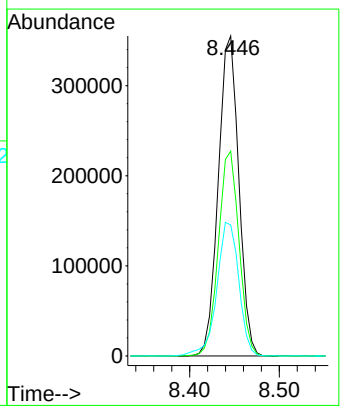


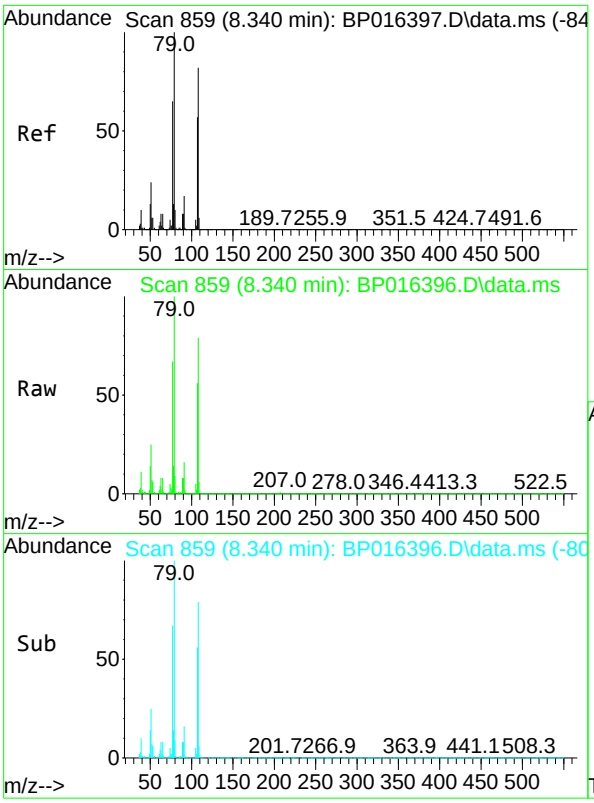


#14
1,2-Dichlorobenzene
Concen: 21.400 ng
RT: 8.446 min Scan# 877
Delta R.T. -0.000 min
Lab File: BP016396.D
Acq: 27 Jul 2023 12:46

Tgt Ion:146 Resp: 563435

Ion	Ratio	Lower	Upper
146	100		
148	64.0	51.0	76.6
111	41.0	32.6	49.0



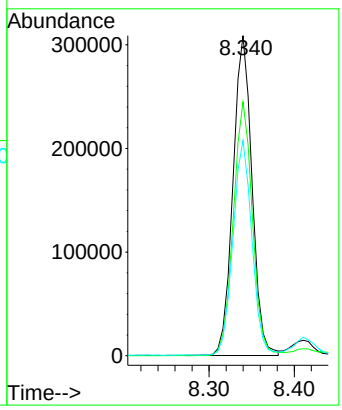


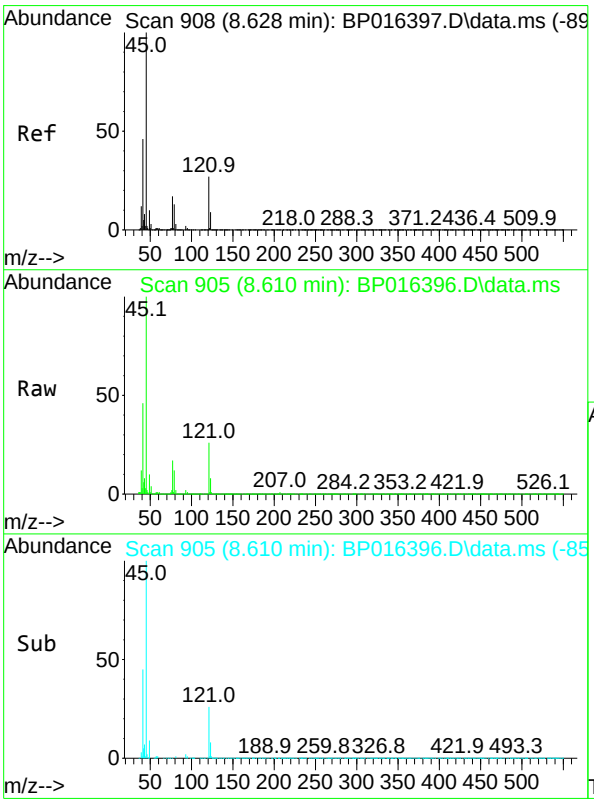
#15
Benzyl Alcohol
Concen: 21.319 ng
RT: 8.340 min Scan# 8
Delta R.T. -0.000 min
Lab File: BP016396.D
Acq: 27 Jul 2023 12:46

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion: 79 Resp: 478122

Ion	Ratio	Lower	Upper
79	100		
108	79.3	65.4	98.2
77	67.3	51.8	77.8

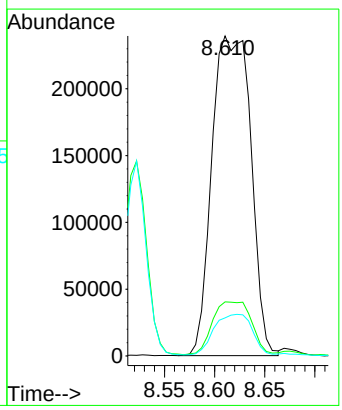


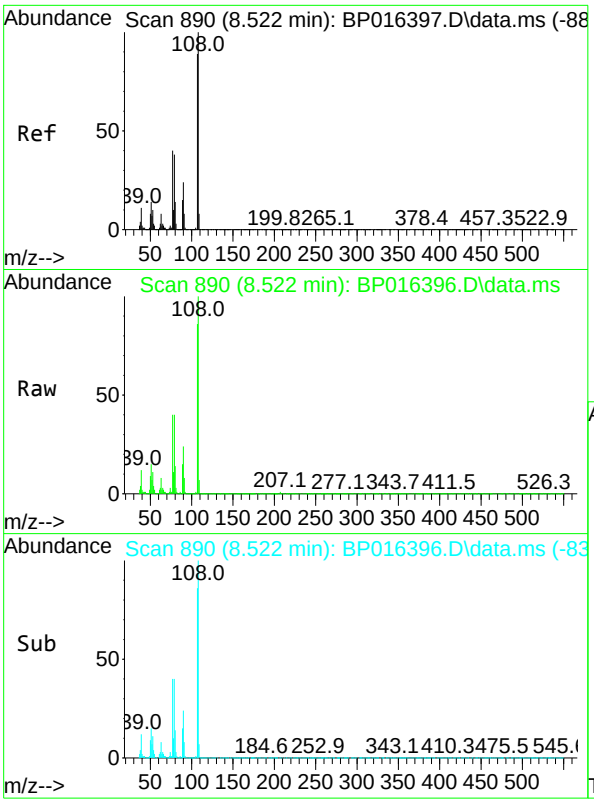


#16
2,2'-oxybis(1-Chloropropane)
Concen: 21.998 ng
RT: 8.610 min Scan# 905
Delta R.T. -0.018 min
Lab File: BP016396.D
Acq: 27 Jul 2023 12:46

Tgt Ion: 45 Resp: 646506

Ion	Ratio	Lower	Upper
45	100		
77	16.9	0.0	37.3
79	11.9	0.0	33.3



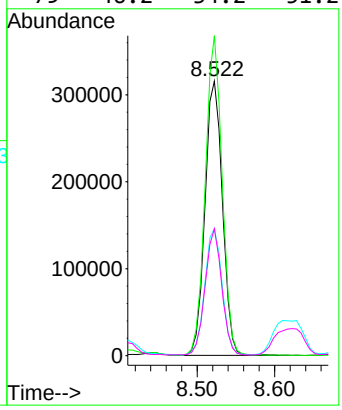


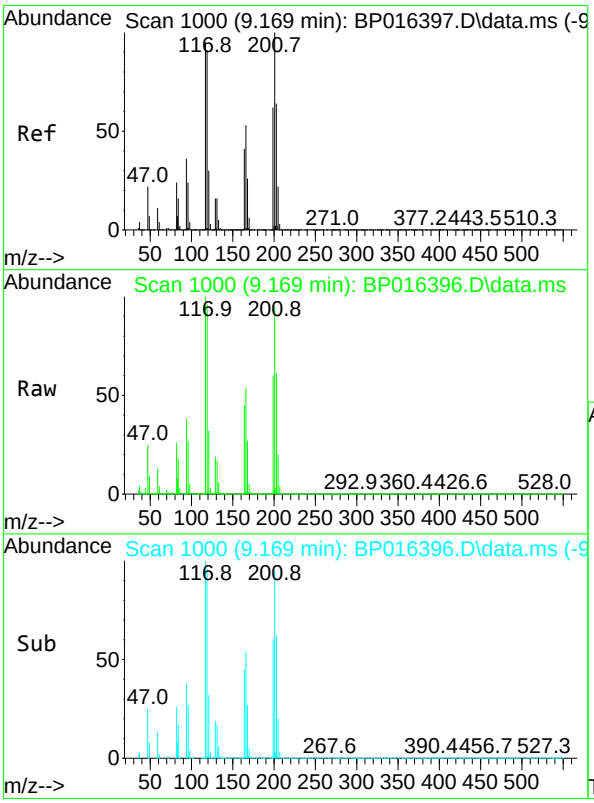
#17
2-Methylphenol
Concen: 21.481 ng
RT: 8.522 min Scan# 8
Delta R.T. -0.000 min
Lab File: BP016396.D
Acq: 27 Jul 2023 12:46

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:107 Resp: 493516

Ion	Ratio	Lower	Upper
107	100		
108	116.5	89.6	134.4
77	46.3	35.6	53.4
79	46.2	34.2	51.2

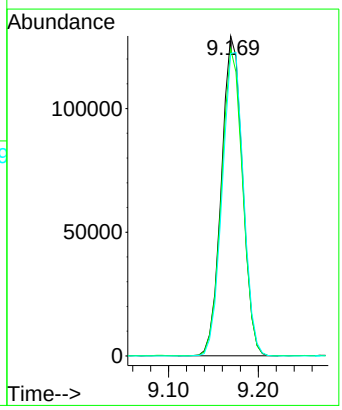


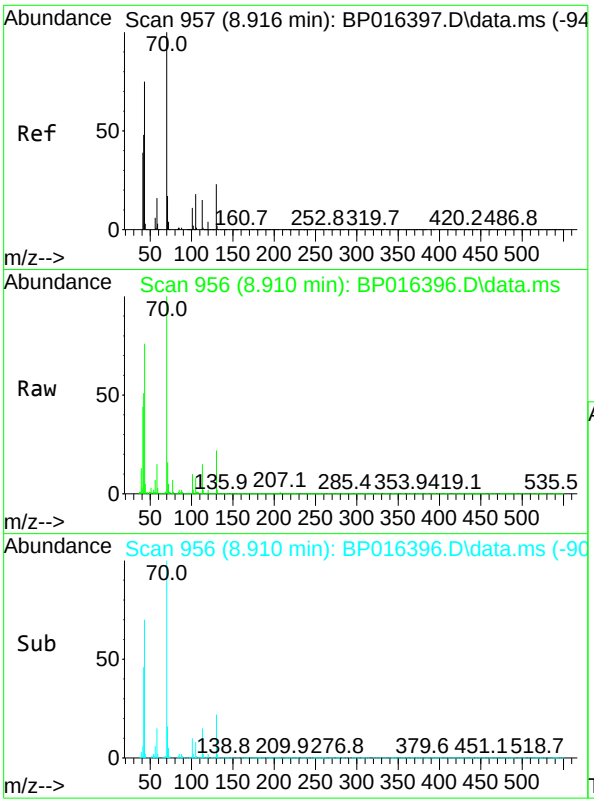


#18
Hexachloroethane
Concen: 21.627 ng
RT: 9.169 min Scan# 1000
Delta R.T. -0.000 min
Lab File: BP016396.D
Acq: 27 Jul 2023 12:46

Tgt Ion:117 Resp: 210946

Ion	Ratio	Lower	Upper
117	100		
119	96.0	76.9	115.3
201	94.6	86.2	129.4



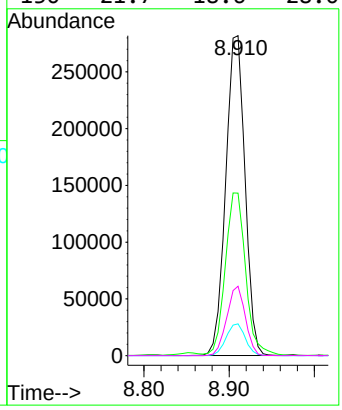


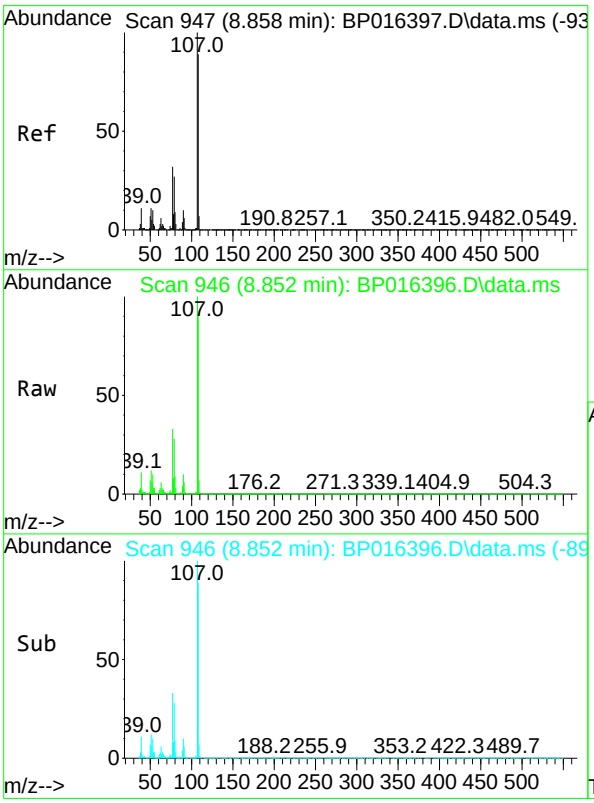
#19
n-Nitroso-di-n-propylamine
Concen: 21.502 ng
RT: 8.910 min Scan# 9
Delta R.T. -0.006 min
Lab File: BP016396.D
Acq: 27 Jul 2023 12:46

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion: 70 Resp: 442188

Ion	Ratio	Lower	Upper
70	100		
42	50.8	39.3	58.9
101	9.9	8.6	12.8
130	21.7	18.6	28.0

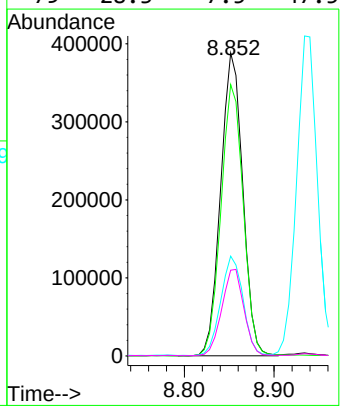


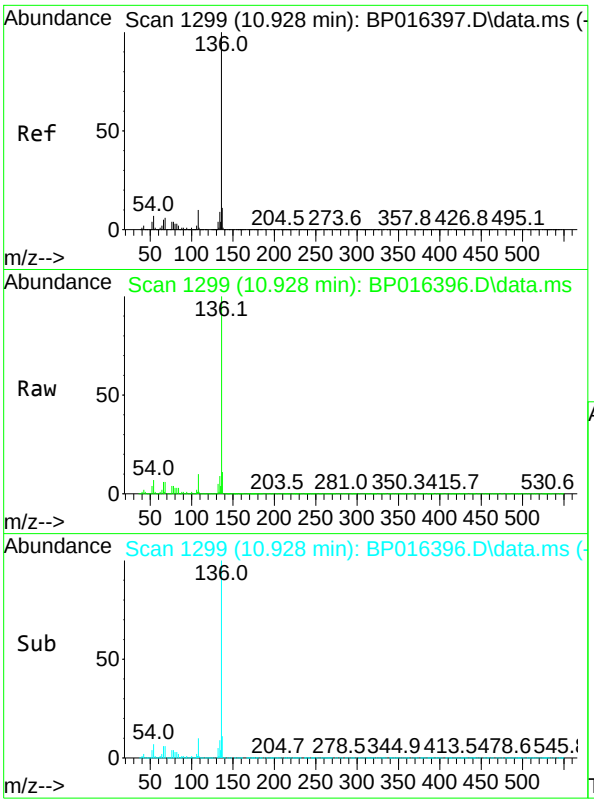


#20
3+4-Methylphenols
Concen: 21.248 ng
RT: 8.852 min Scan# 946
Delta R.T. -0.006 min
Lab File: BP016396.D
Acq: 27 Jul 2023 12:46

Tgt Ion:107 Resp: 663010

Ion	Ratio	Lower	Upper
107	100		
108	89.5	69.1	109.1
77	32.9	12.0	52.0
79	28.3	7.5	47.5



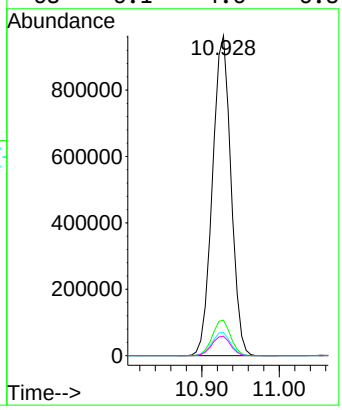


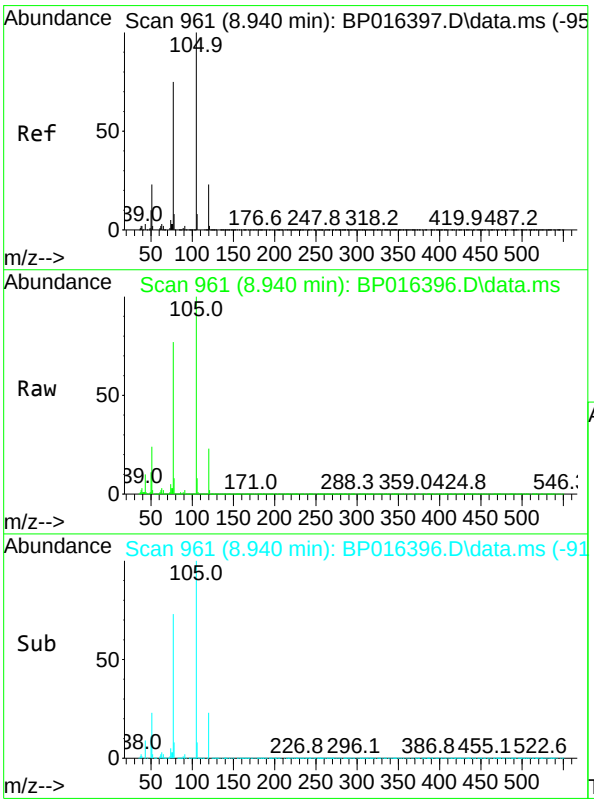
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.928 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP016396.D
Acq: 27 Jul 2023 12:46

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:136 Resp: 1597219

Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.6	13.0
54	7.2	5.6	8.4
68	6.1	4.6	6.8

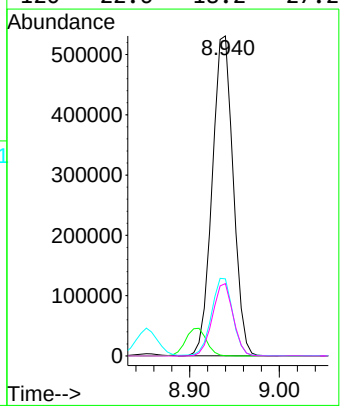


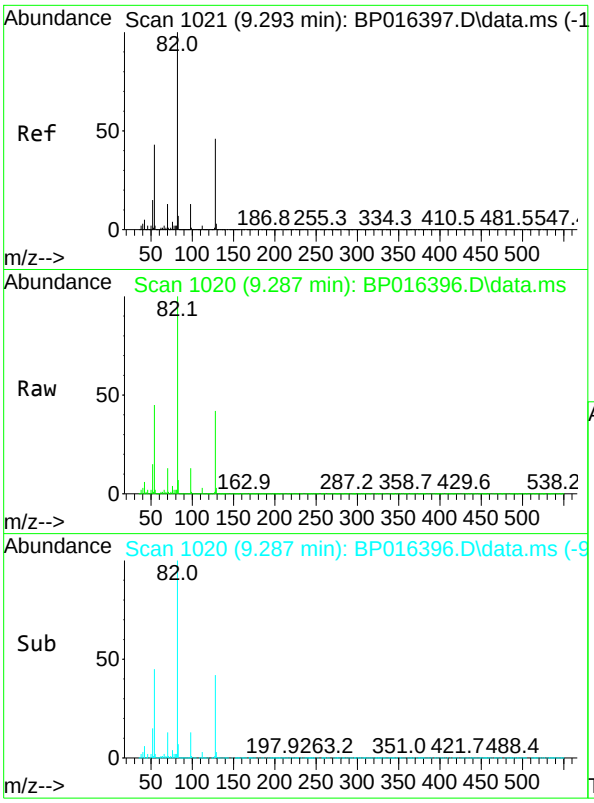


#22
Acetophenone
Concen: 21.365 ng
RT: 8.940 min Scan# 961
Delta R.T. -0.000 min
Lab File: BP016396.D
Acq: 27 Jul 2023 12:46

Tgt Ion:105 Resp: 861604

Ion	Ratio	Lower	Upper
105	100		
71	0.1	0.2	0.2#
51	24.1	18.3	27.5
120	22.6	18.2	27.2



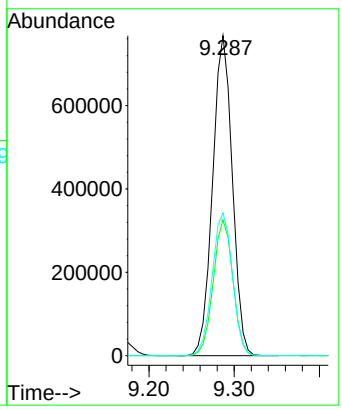


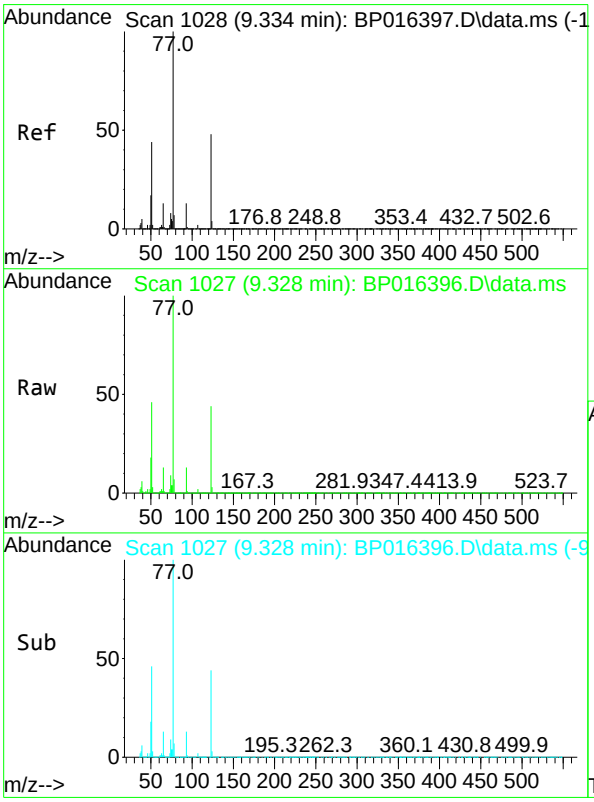
#23
Nitrobenzene-d5
Concen: 43.169 ng
RT: 9.287 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP016396.D
Acq: 27 Jul 2023 12:46

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion: 82 Resp: 1231721

Ion	Ratio	Lower	Upper
82	100		
128	42.4	36.6	55.0
54	44.6	34.5	51.7

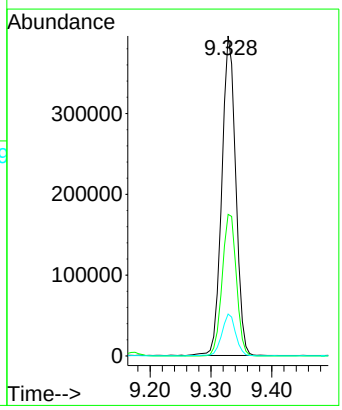


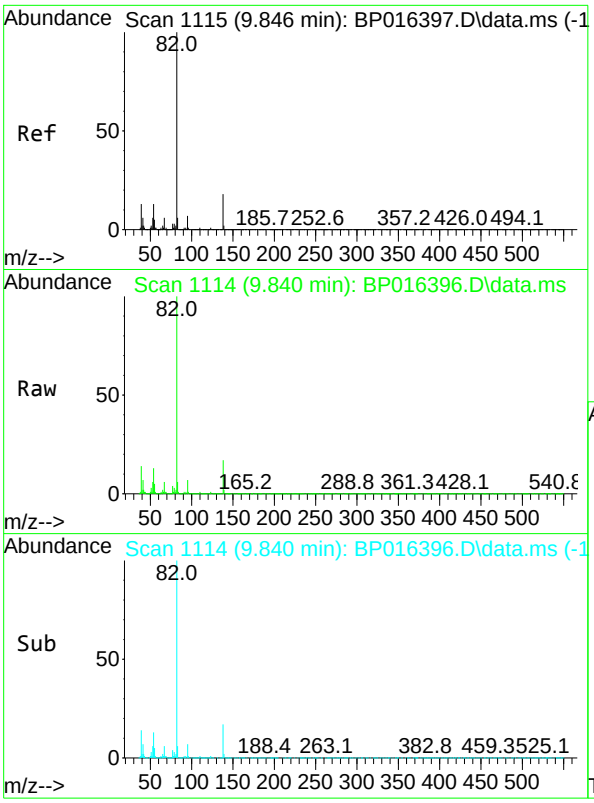


#24
Nitrobenzene
Concen: 21.428 ng
RT: 9.328 min Scan# 1027
Delta R.T. -0.006 min
Lab File: BP016396.D
Acq: 27 Jul 2023 12:46

Tgt Ion: 77 Resp: 627957

Ion	Ratio	Lower	Upper
77	100		
123	44.3	38.6	58.0
65	13.1	10.5	15.7



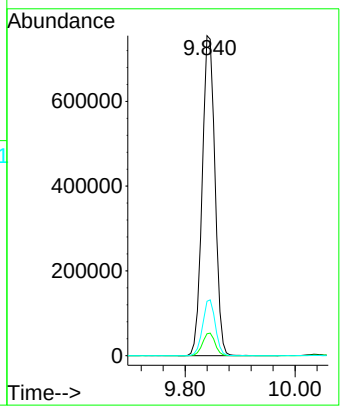


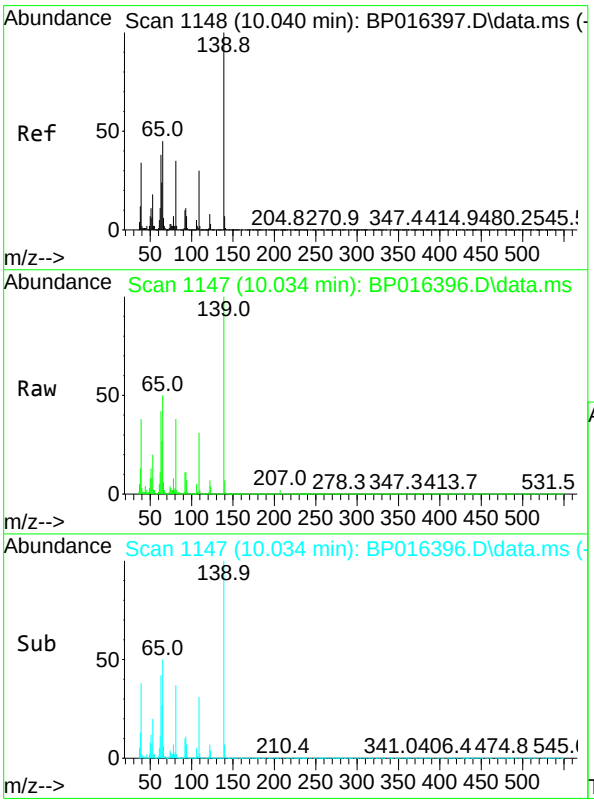
#25
Isophorone
Concen: 21.123 ng
RT: 9.840 min Scan# 11
Delta R.T. -0.006 min
Lab File: BP016396.D
Acq: 27 Jul 2023 12:46

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion: 82 Resp: 1216771

Ion	Ratio	Lower	Upper
82	100		
95	6.9	5.7	8.5
138	17.0	14.6	22.0

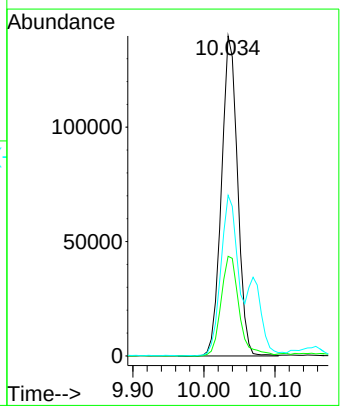


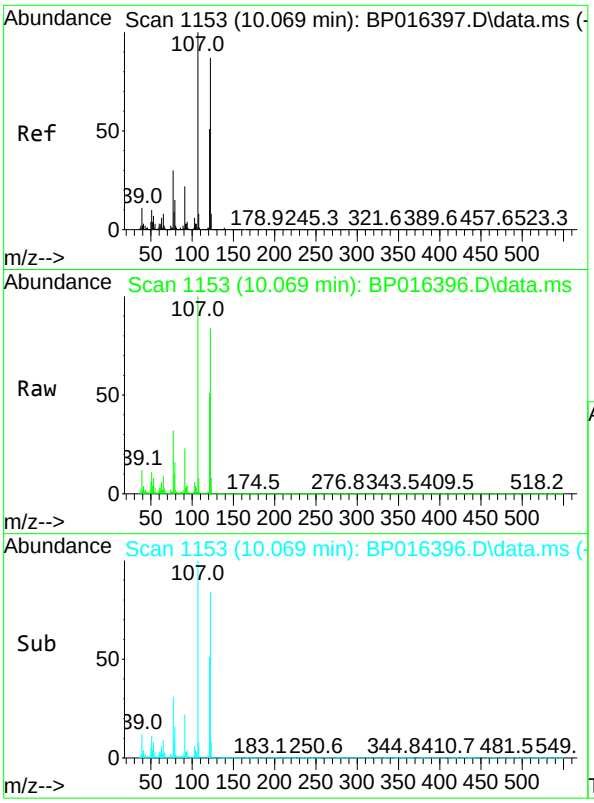


#26
2-Nitrophenol
Concen: 19.393 ng
RT: 10.034 min Scan# 1147
Delta R.T. -0.006 min
Lab File: BP016396.D
Acq: 27 Jul 2023 12:46

Tgt Ion:139 Resp: 219791

Ion	Ratio	Lower	Upper
139	100		
109	31.2	24.2	36.4
65	50.2	35.8	53.6



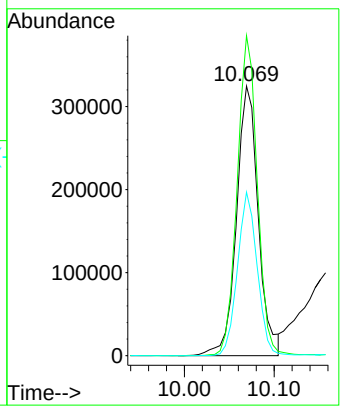


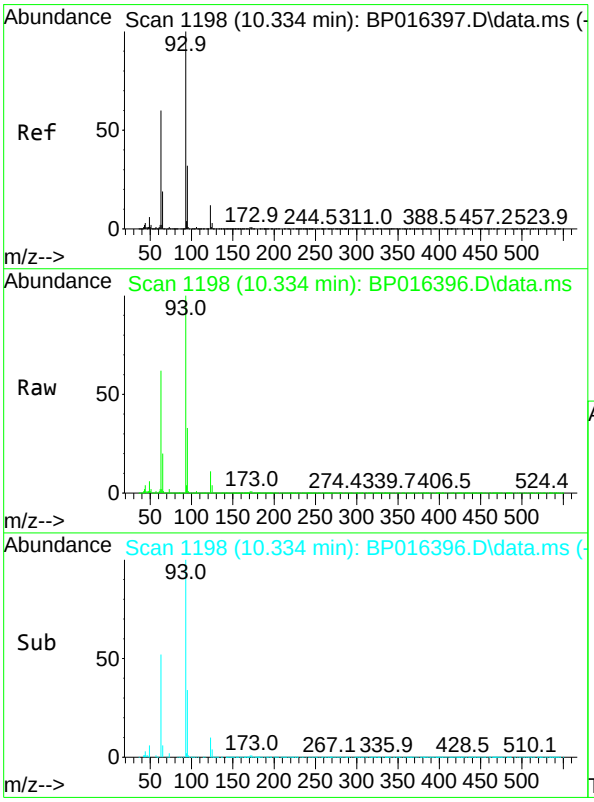
#27
2,4-Dimethylphenol
Concen: 21.232 ng
RT: 10.069 min Scan# 11
Delta R.T. -0.000 min
Lab File: BP016396.D
Acq: 27 Jul 2023 12:46

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:122 Resp: 547179

Ion	Ratio	Lower	Upper
122	100		
107	118.7	91.9	137.9
121	60.7	47.2	70.8

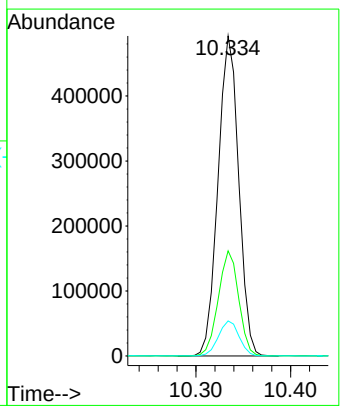


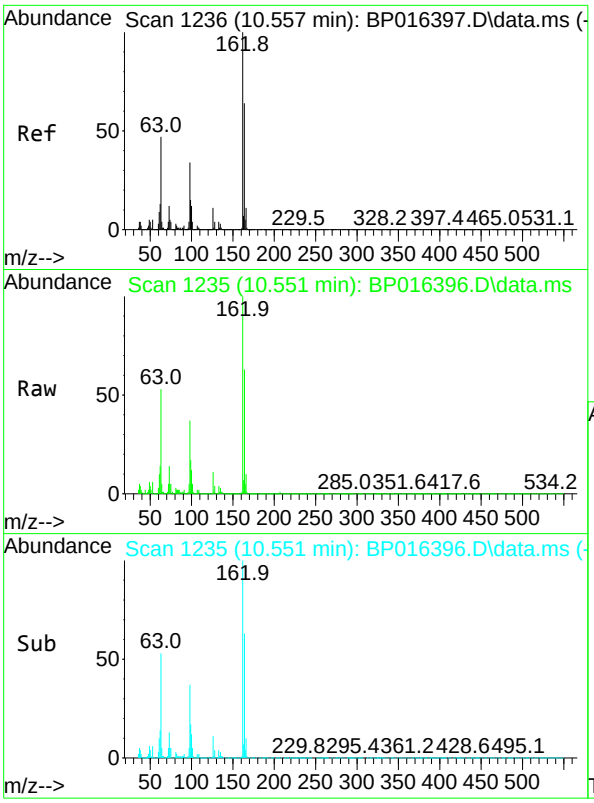


#28
bis(2-Chloroethoxy)methane
Concen: 21.143 ng
RT: 10.334 min Scan# 1198
Delta R.T. -0.000 min
Lab File: BP016396.D
Acq: 27 Jul 2023 12:46

Tgt Ion: 93 Resp: 746026

Ion	Ratio	Lower	Upper
93	100		
95	32.8	25.8	38.8
123	11.0	9.4	14.0



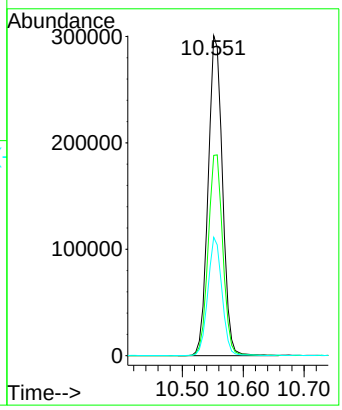


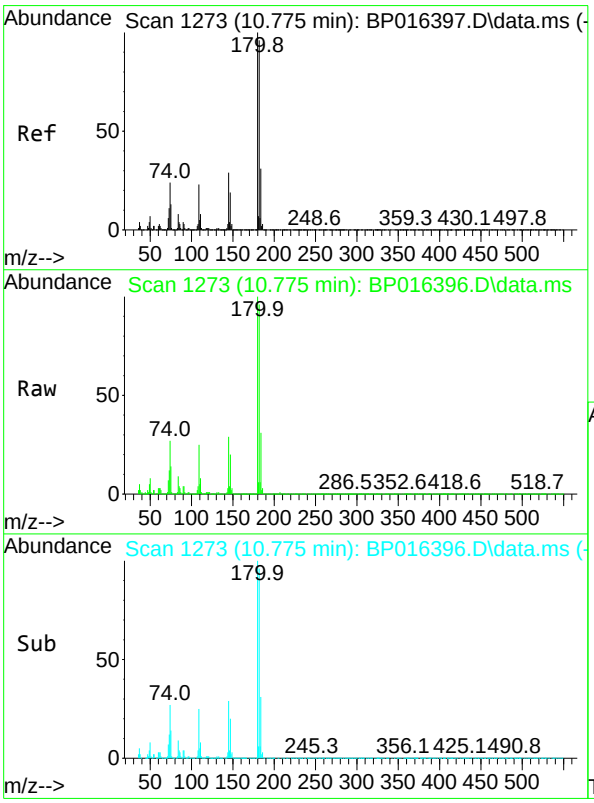
#29
2,4-Dichlorophenol
Concen: 20.360 ng
RT: 10.551 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP016396.D
Acq: 27 Jul 2023 12:46

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:162 Resp: 491048

Ion	Ratio	Lower	Upper
162	100		
164	62.6	44.2	84.2
98	37.0	13.7	53.7

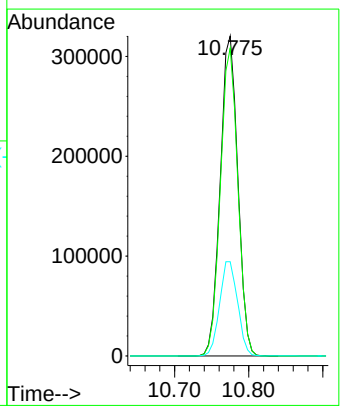


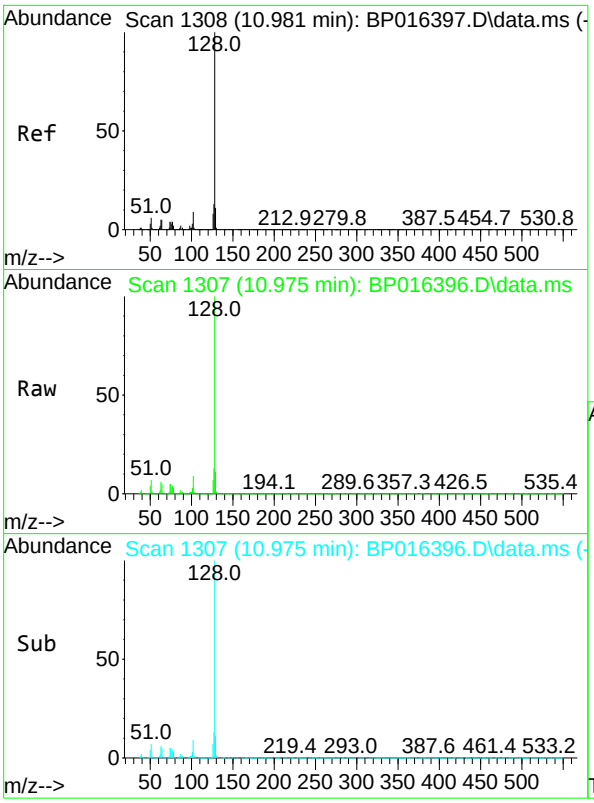


#30
1,2,4-Trichlorobenzene
Concen: 20.188 ng
RT: 10.775 min Scan# 1273
Delta R.T. -0.000 min
Lab File: BP016396.D
Acq: 27 Jul 2023 12:46

Tgt Ion:180 Resp: 527386

Ion	Ratio	Lower	Upper
180	100		
182	96.2	77.1	115.7
145	29.5	22.9	34.3



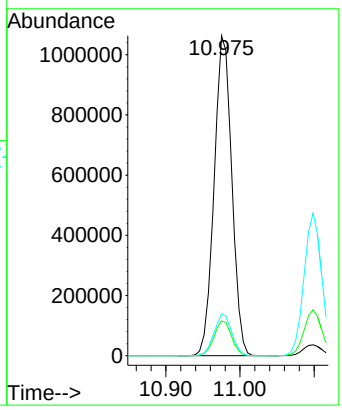


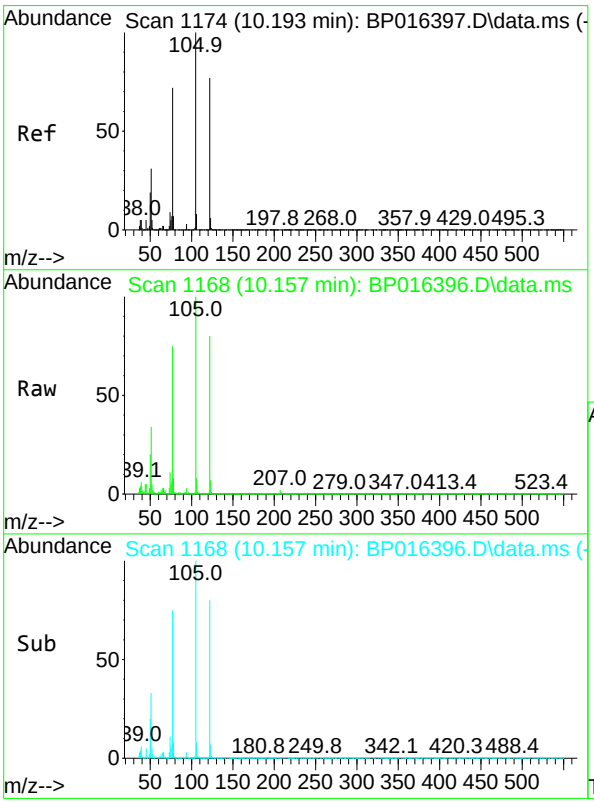
#31
Naphthalene
Concen: 21.039 ng
RT: 10.975 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP016396.D
Acq: 27 Jul 2023 12:46

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:128 Resp: 1757683

Ion	Ratio	Lower	Upper
128	100		
129	10.9	8.6	12.8
127	13.1	10.4	15.6

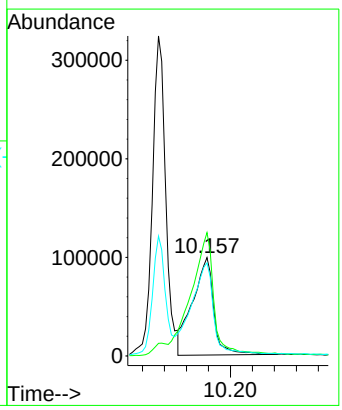


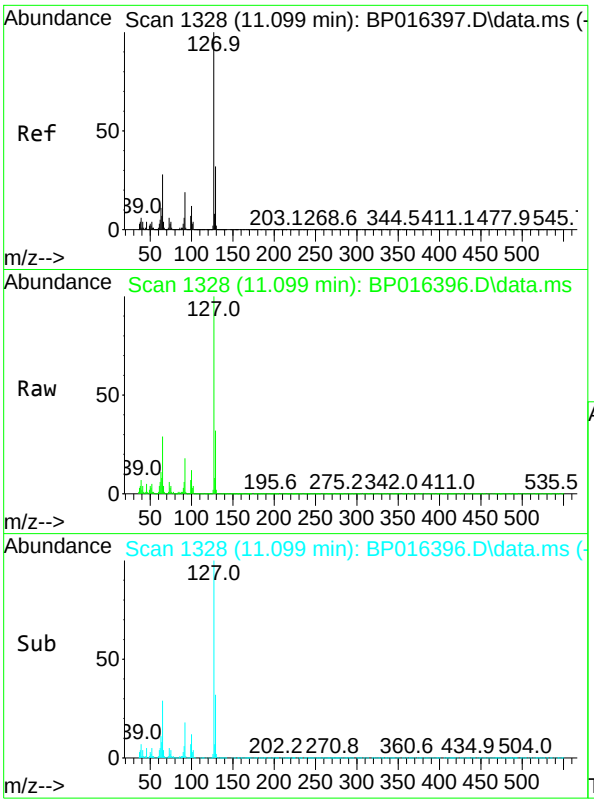


#32
Benzoic acid
Concen: 20.054 ng
RT: 10.157 min Scan# 1168
Delta R.T. -0.036 min
Lab File: BP016396.D
Acq: 27 Jul 2023 12:46

Tgt Ion:122 Resp: 267876

Ion	Ratio	Lower	Upper
122	100		
105	125.4	105.2	145.2
77	94.6	72.2	112.2



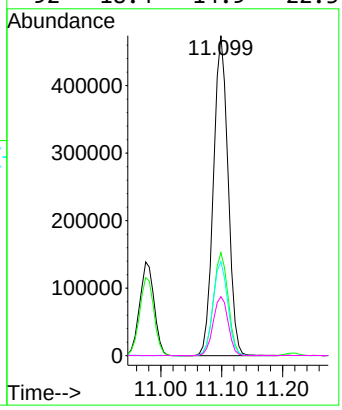


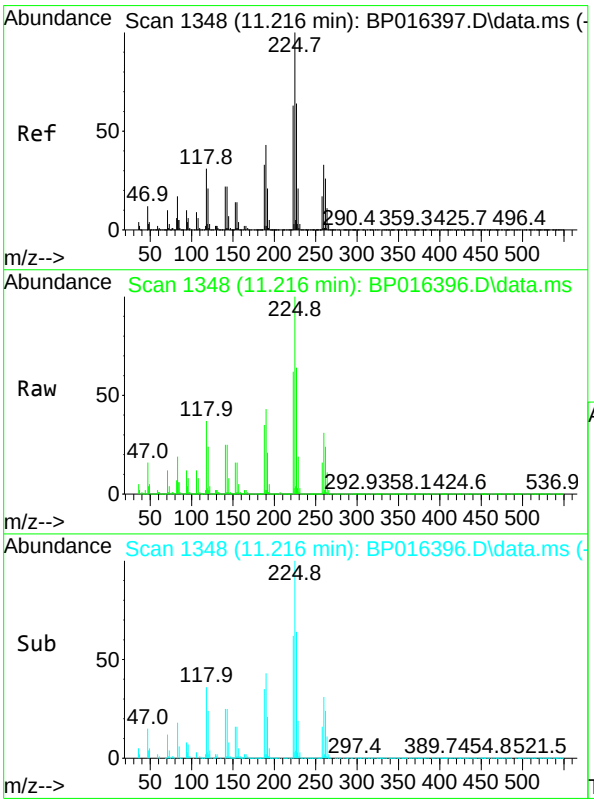
#33
4-Chloroaniline
Concen: 20.913 ng
RT: 11.099 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP016396.D
Acq: 27 Jul 2023 12:46

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:127 Resp: 788116

Ion	Ratio	Lower	Upper
127	100		
129	32.2	25.8	38.8
65	29.4	22.7	34.1
92	18.4	14.9	22.3

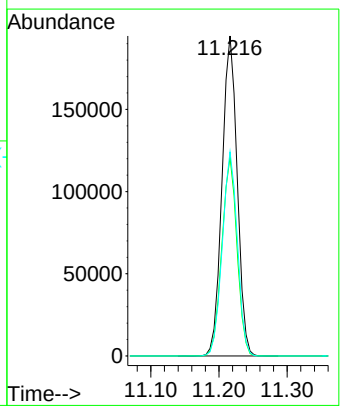


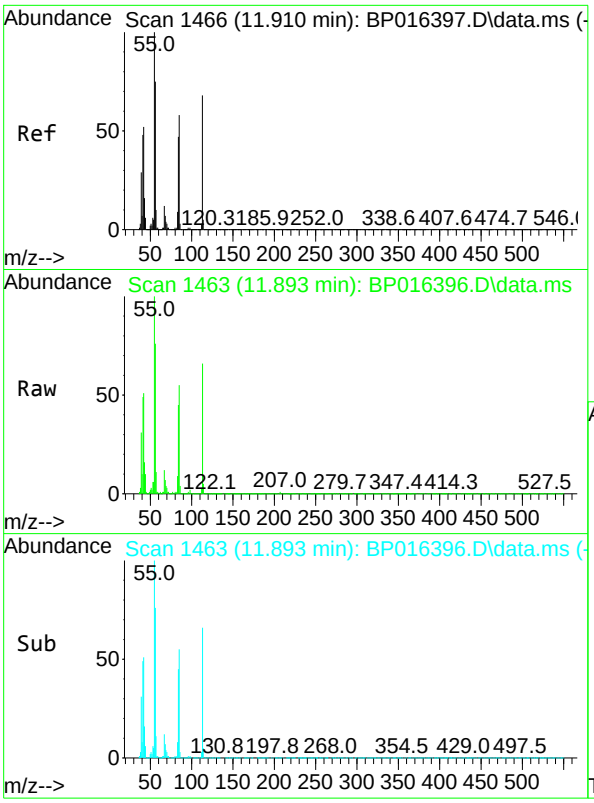


#34
Hexachlorobutadiene
Concen: 19.487 ng
RT: 11.216 min Scan# 1348
Delta R.T. -0.000 min
Lab File: BP016396.D
Acq: 27 Jul 2023 12:46

Tgt Ion:225 Resp: 301386

Ion	Ratio	Lower	Upper
225	100		
223	62.1	50.2	75.4
227	63.8	51.0	76.6



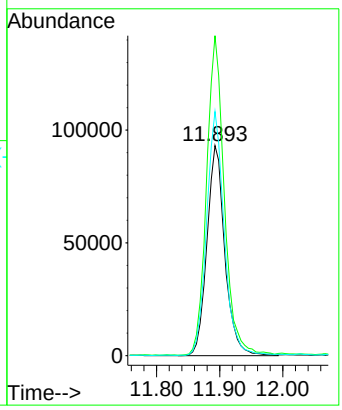


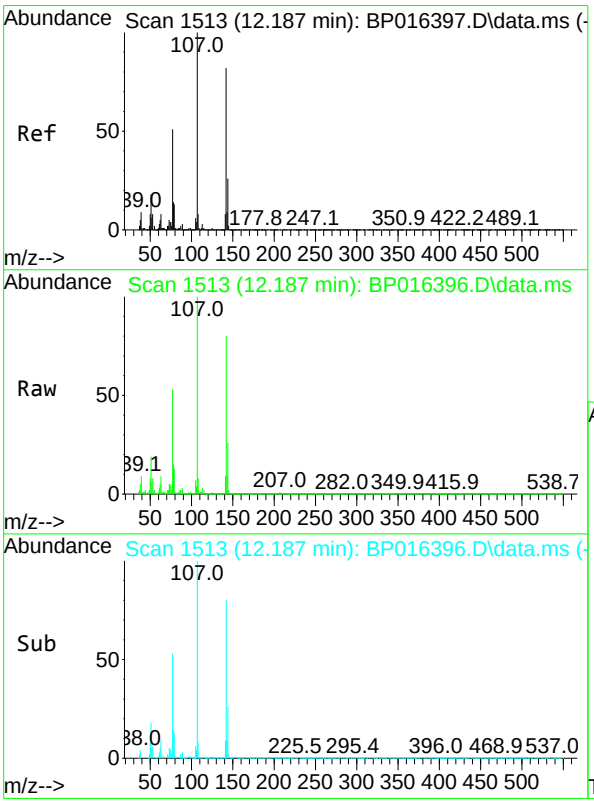
#35
Caprolactam
Concen: 20.827 ng
RT: 11.893 min Scan# 14
Delta R.T. -0.018 min
Lab File: BP016396.D
Acq: 27 Jul 2023 12:46

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:113 Resp: 183590

Ion	Ratio	Lower	Upper
113	100		
55	152.4	128.0	168.0
56	116.3	91.3	131.3

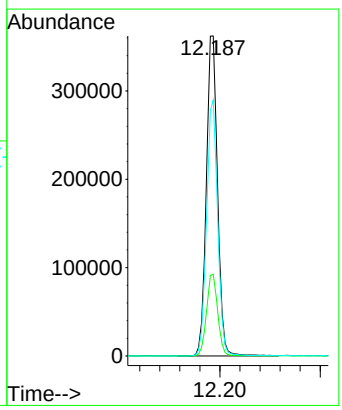


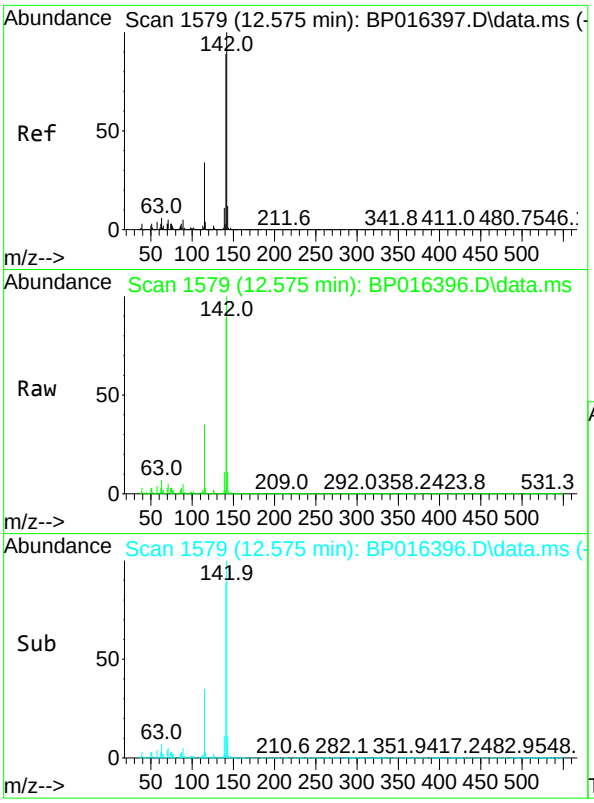


#36
4-Chloro-3-methylphenol
Concen: 20.999 ng
RT: 12.187 min Scan# 1513
Delta R.T. -0.000 min
Lab File: BP016396.D
Acq: 27 Jul 2023 12:46

Tgt Ion:107 Resp: 562974

Ion	Ratio	Lower	Upper
107	100		
144	25.6	21.0	31.6
142	80.0	65.6	98.4



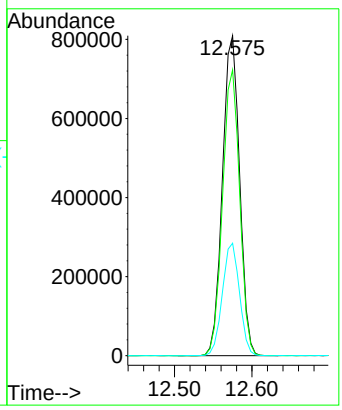


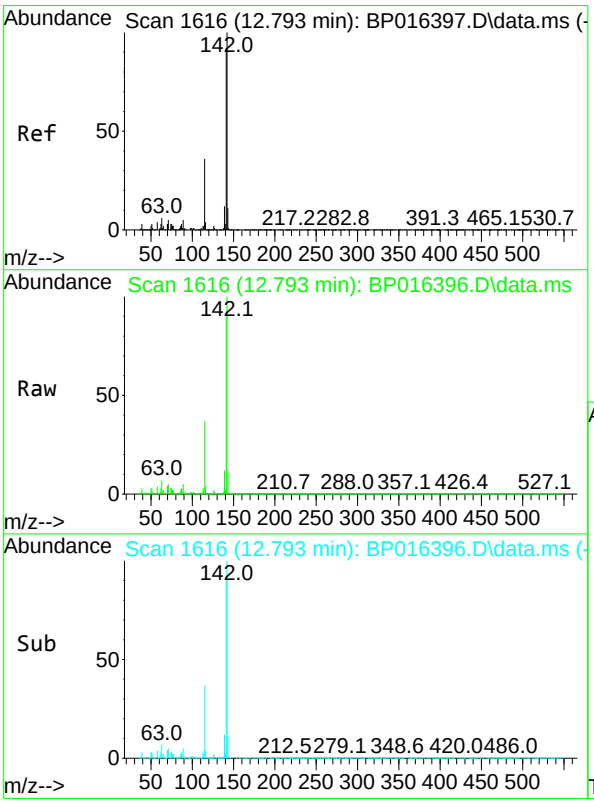
#37
2-Methylnaphthalene
Concen: 20.564 ng
RT: 12.575 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP016396.D
Acq: 27 Jul 2023 12:46

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:142 Resp: 1248092

Ion	Ratio	Lower	Upper
142	100		
141	89.3	71.4	107.2
115	35.1	27.0	40.4

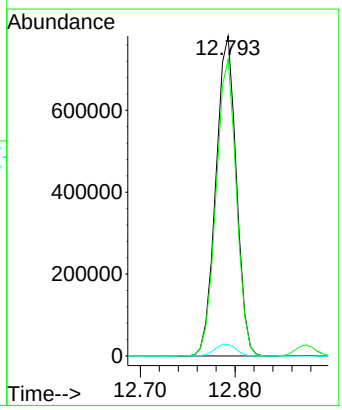


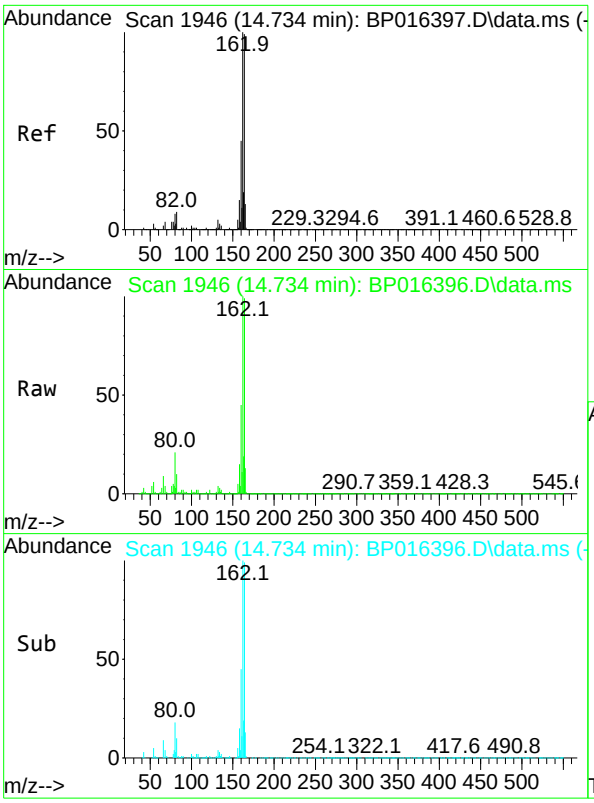


#38
1-Methylnaphthalene
Concen: 20.603 ng
RT: 12.793 min Scan# 1616
Delta R.T. -0.000 min
Lab File: BP016396.D
Acq: 27 Jul 2023 12:46

Tgt Ion:142 Resp: 1172351

Ion	Ratio	Lower	Upper
142	100		
141	92.7	73.8	110.6
116	3.6	2.9	4.3



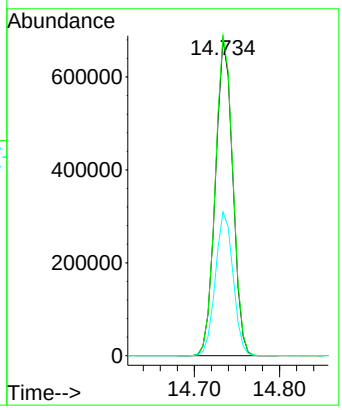


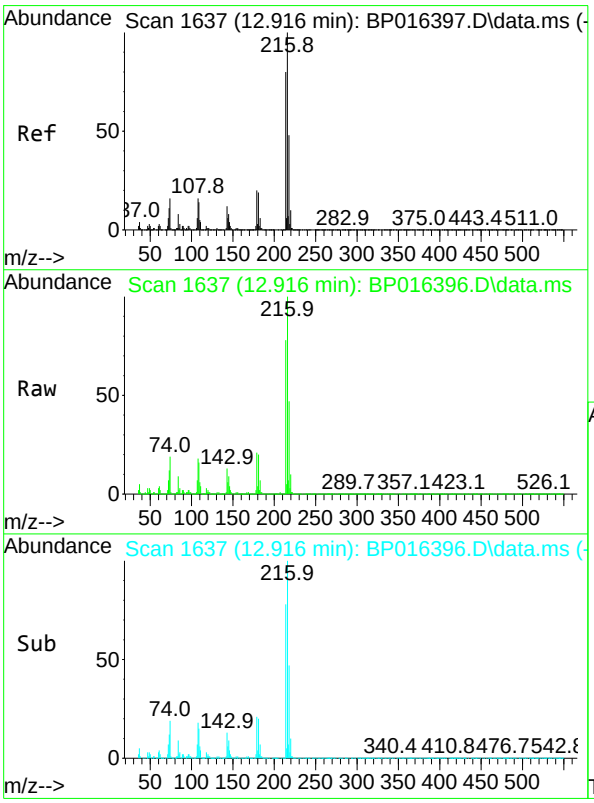
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.734 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP016396.D
Acq: 27 Jul 2023 12:46

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:164 Resp: 966710

Ion	Ratio	Lower	Upper
164	100		
162	101.1	81.0	121.6
160	45.4	36.6	55.0

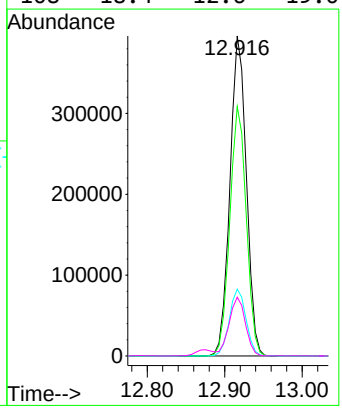


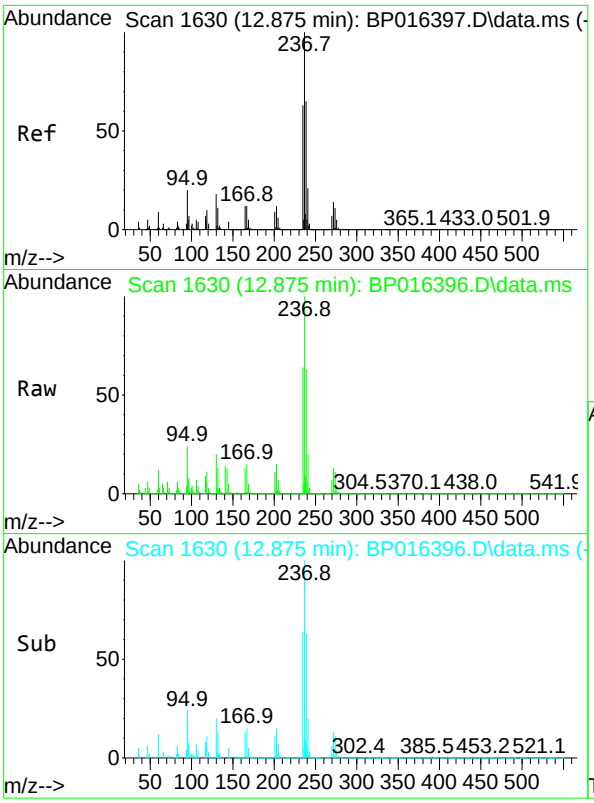


#40
1,2,4,5-Tetrachlorobenzene
Concen: 19.865 ng
RT: 12.916 min Scan# 1637
Delta R.T. -0.000 min
Lab File: BP016396.D
Acq: 27 Jul 2023 12:46

Tgt Ion:216 Resp: 583585

Ion	Ratio	Lower	Upper
216	100		
214	78.3	62.8	94.2
179	21.3	16.0	24.0
108	18.4	12.6	19.0



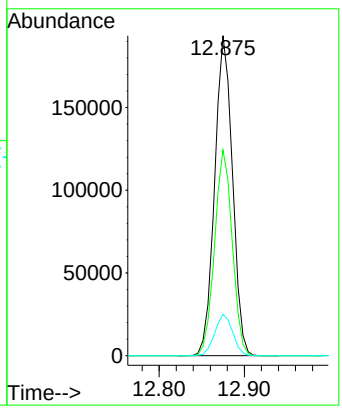


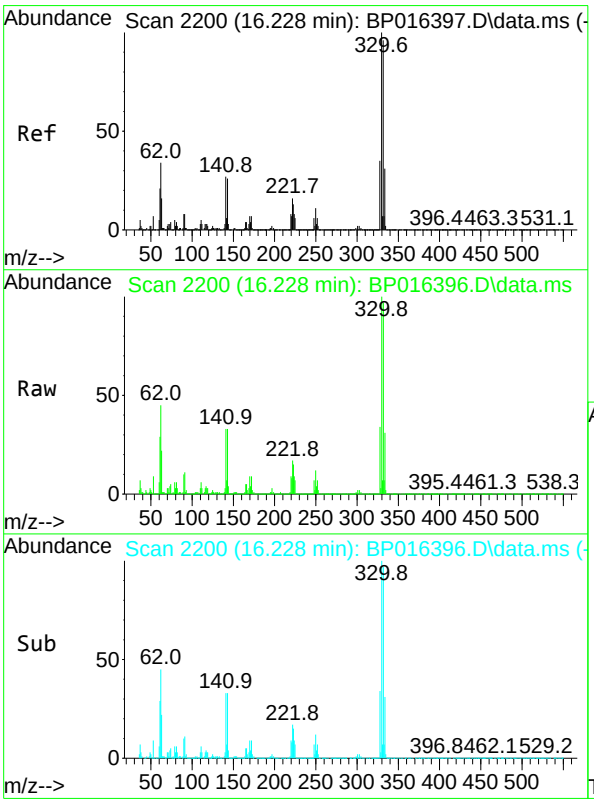
#41
Hexachlorocyclopentadiene
Concen: 19.073 ng
RT: 12.875 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP016396.D
Acq: 27 Jul 2023 12:46

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:237 Resp: 281419

Ion	Ratio	Lower	Upper
237	100		
235	64.3	42.7	82.7
272	13.0	0.0	33.5

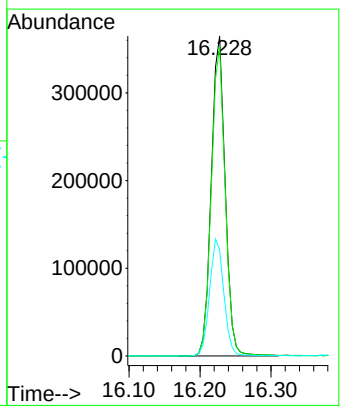


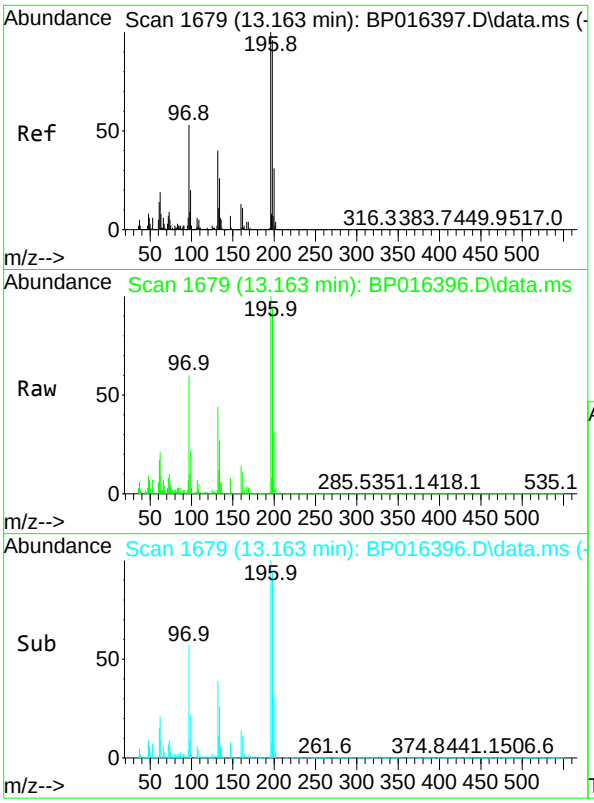


#42
2,4,6-Tribromophenol
Concen: 34.782 ng
RT: 16.228 min Scan# 2200
Delta R.T. -0.000 min
Lab File: BP016396.D
Acq: 27 Jul 2023 12:46

Tgt Ion:330 Resp: 494661

Ion	Ratio	Lower	Upper
330	100		
332	96.7	77.8	116.8
141	37.7	22.6	34.0#



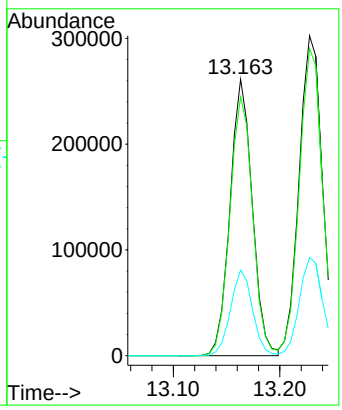


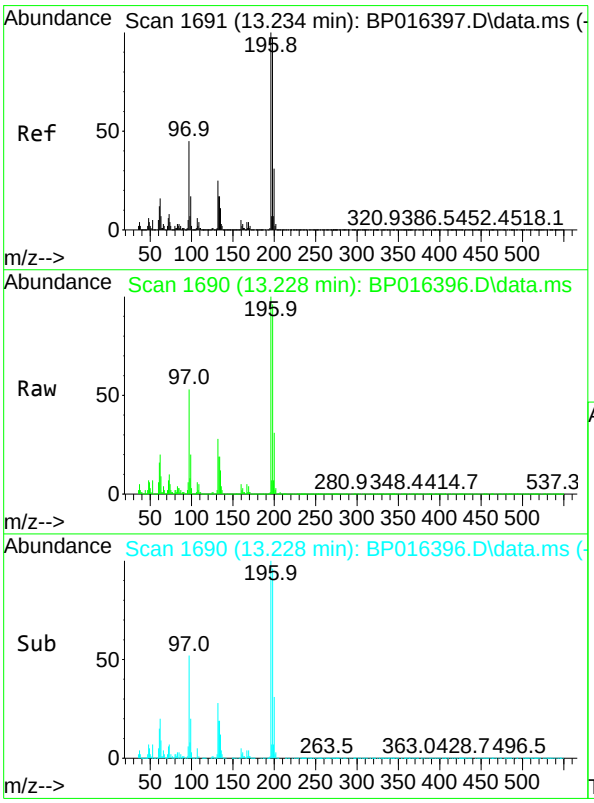
#43
2,4,6-Trichlorophenol
Concen: 20.186 ng
RT: 13.163 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP016396.D
Acq: 27 Jul 2023 12:46

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:196 Resp: 380491

Ion	Ratio	Lower	Upper
196	100		
198	93.6	77.0	115.4
200	30.9	24.5	36.7

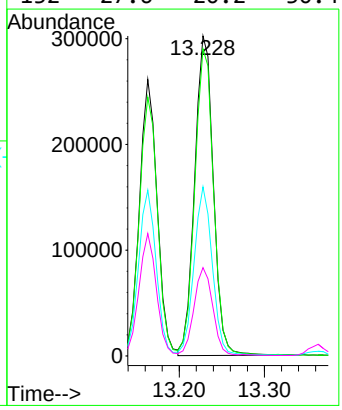


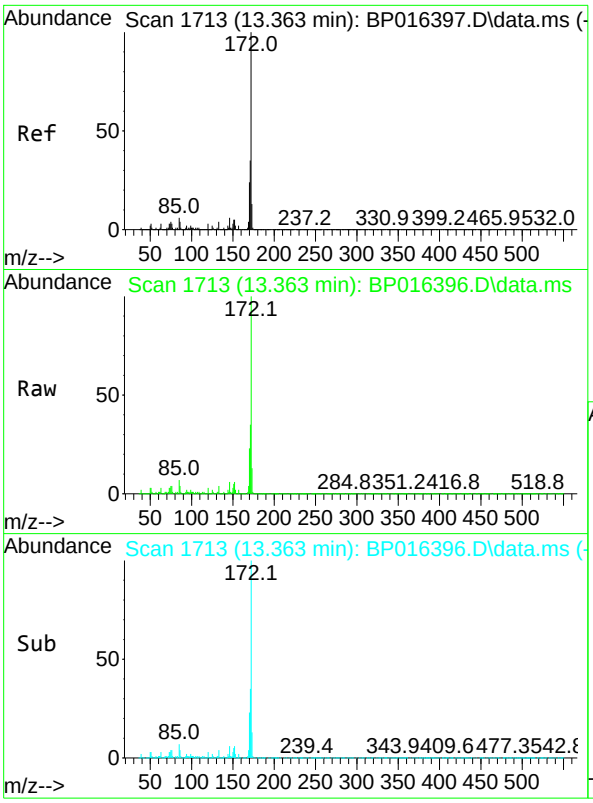


#44
2,4,5-Trichlorophenol
Concen: 20.105 ng
RT: 13.228 min Scan# 1690
Delta R.T. -0.006 min
Lab File: BP016396.D
Acq: 27 Jul 2023 12:46

Tgt Ion:196 Resp: 459783

Ion	Ratio	Lower	Upper
196	100		
198	96.0	77.3	115.9
97	52.9	36.2	54.4
132	27.6	20.2	30.4



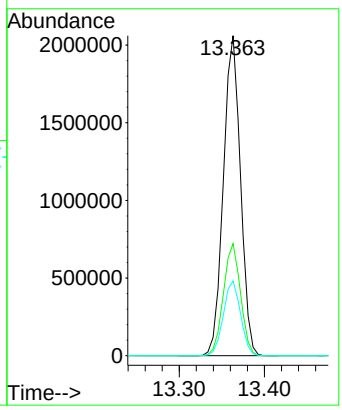


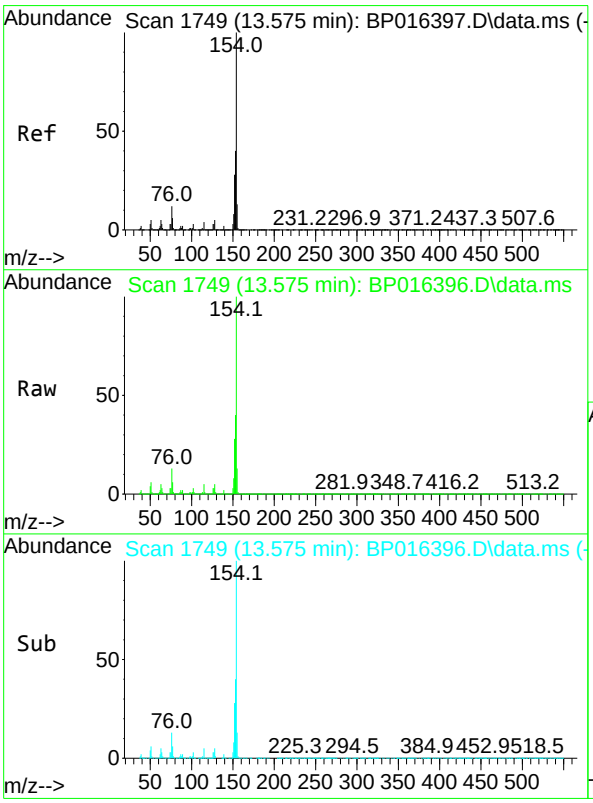
#45
2-Fluorobiphenyl
Concen: 42.573 ng
RT: 13.363 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP016396.D
Acq: 27 Jul 2023 12:46

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:172 Resp: 2870657

Ion	Ratio	Lower	Upper
172	100		
171	35.1	28.2	42.2
170	23.4	19.1	28.7

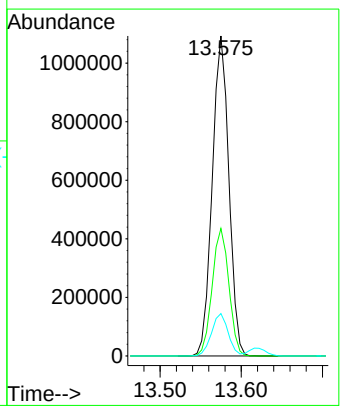


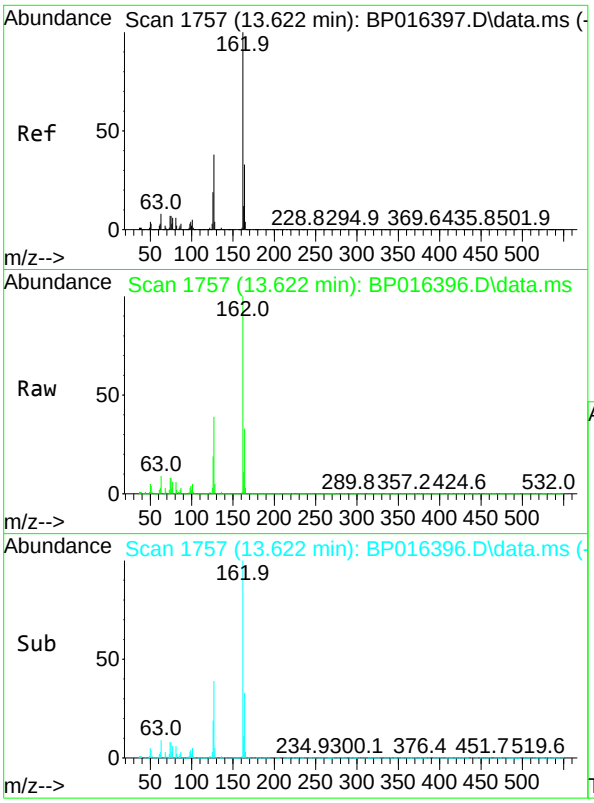


#46
1,1'-Biphenyl
Concen: 21.065 ng
RT: 13.575 min Scan# 1749
Delta R.T. -0.000 min
Lab File: BP016396.D
Acq: 27 Jul 2023 12:46

Tgt Ion:154 Resp: 1552303

Ion	Ratio	Lower	Upper
154	100		
153	39.9	20.1	60.1
76	13.2	0.0	32.5



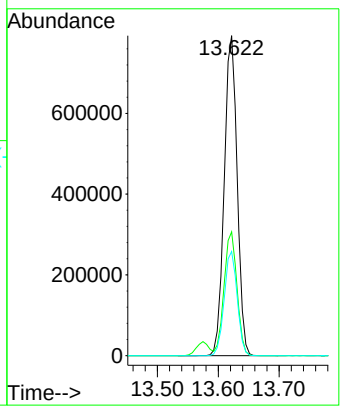


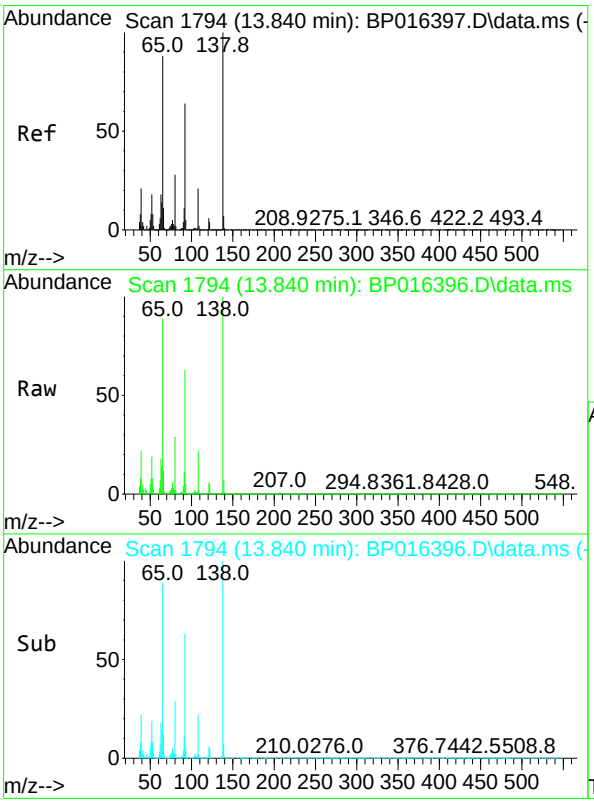
#47
2-Chloronaphthalene
Concen: 21.014 ng
RT: 13.622 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP016396.D
Acq: 27 Jul 2023 12:46

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:162 Resp: 1168245

Ion	Ratio	Lower	Upper
162	100		
127	38.7	30.1	45.1
164	32.5	26.6	39.8

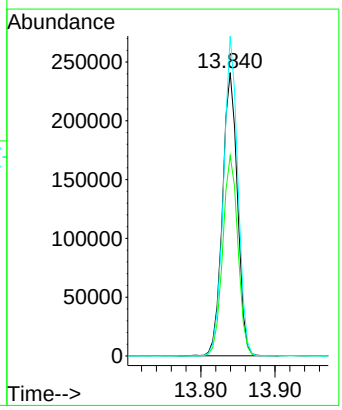


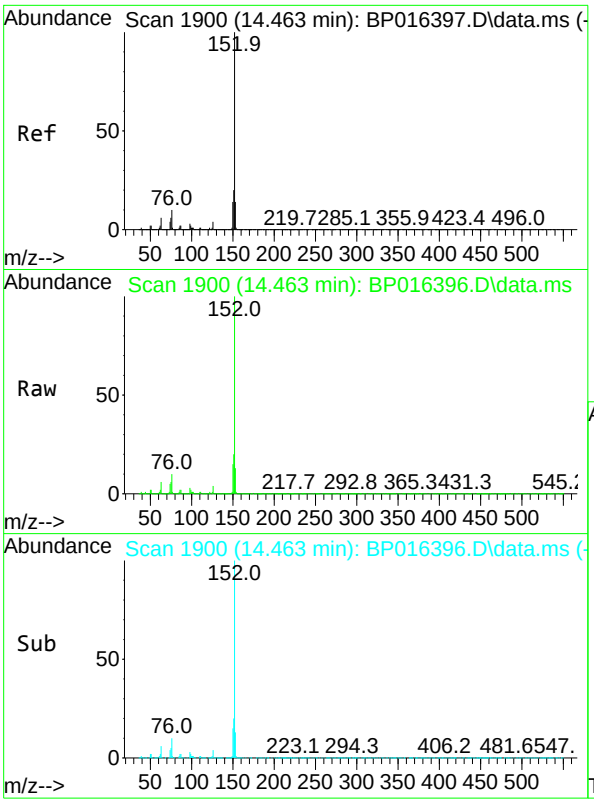


#48
2-Nitroaniline
Concen: 21.589 ng
RT: 13.840 min Scan# 1794
Delta R.T. -0.000 min
Lab File: BP016396.D
Acq: 27 Jul 2023 12:46

Tgt Ion: 65 Resp: 338327

Ion	Ratio	Lower	Upper
65	100		
92	70.7	58.2	87.4
138	112.9	91.3	136.9



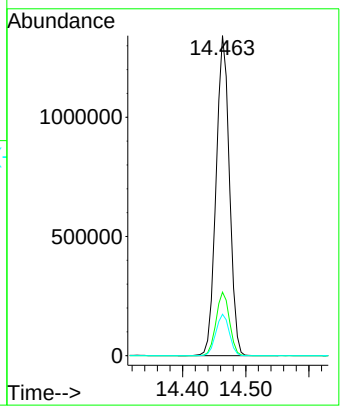


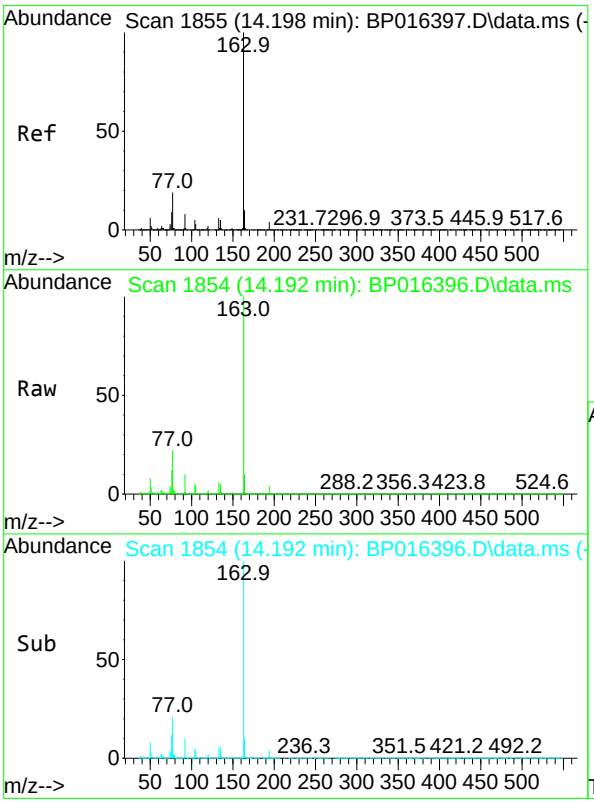
#49
Acenaphthylene
Concen: 21.360 ng
RT: 14.463 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP016396.D
Acq: 27 Jul 2023 12:46

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:152 Resp: 1970295

Ion	Ratio	Lower	Upper
152	100		
151	19.9	16.2	24.4
153	12.9	10.8	16.2

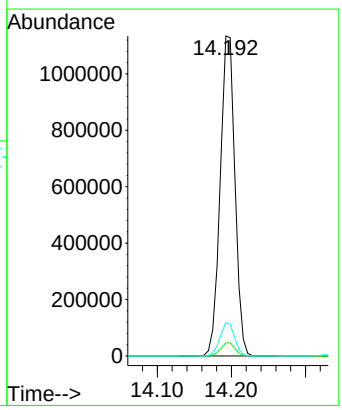


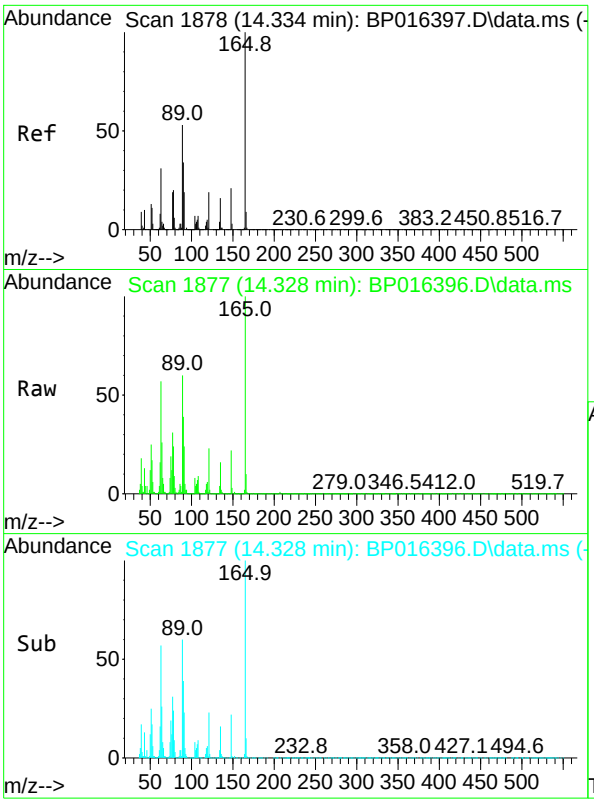


#50
Dimethylphthalate
Concen: 20.810 ng
RT: 14.192 min Scan# 1854
Delta R.T. -0.006 min
Lab File: BP016396.D
Acq: 27 Jul 2023 12:46

Tgt Ion:163 Resp: 1567681

Ion	Ratio	Lower	Upper
163	100		
194	4.1	3.4	5.2
164	10.4	8.2	12.2



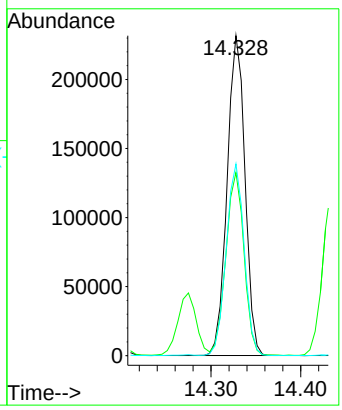


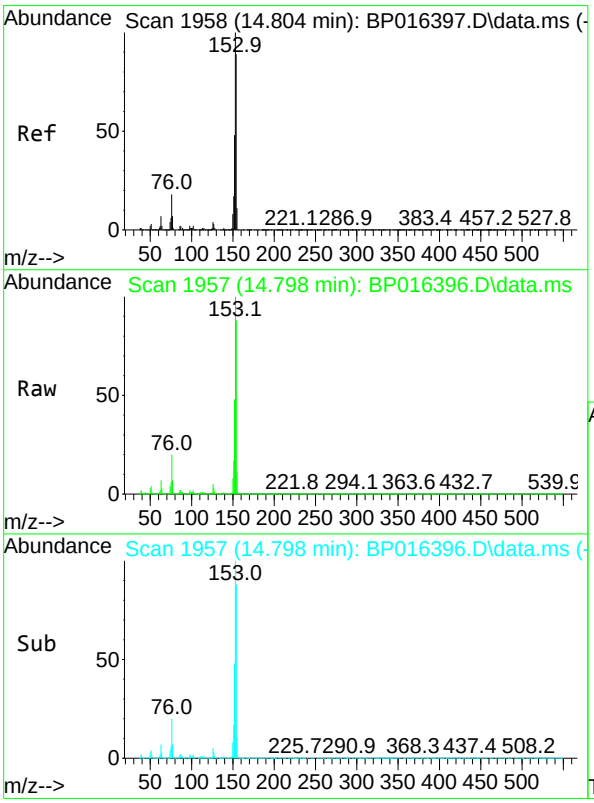
#51
2,6-Dinitrotoluene
Concen: 20.722 ng
RT: 14.328 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP016396.D
Acq: 27 Jul 2023 12:46

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:165 Resp: 319797

Ion	Ratio	Lower	Upper
165	100		
63	57.3	39.1	58.7
89	59.9	42.5	63.7

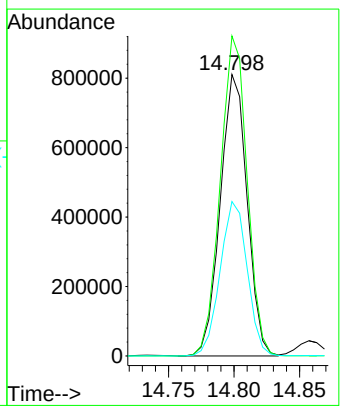


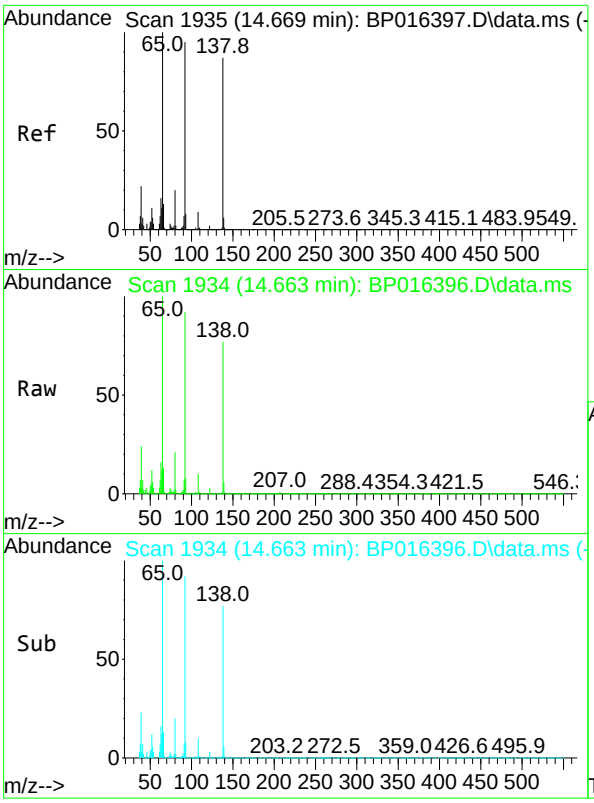


#52
Acenaphthene
Concen: 21.008 ng
RT: 14.798 min Scan# 1957
Delta R.T. -0.006 min
Lab File: BP016396.D
Acq: 27 Jul 2023 12:46

Tgt Ion:154 Resp: 1152326

Ion	Ratio	Lower	Upper
154	100		
153	113.7	90.4	135.6
152	54.9	43.4	65.0



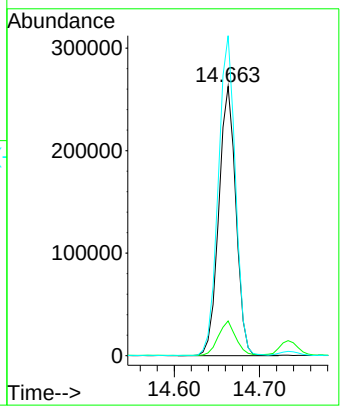


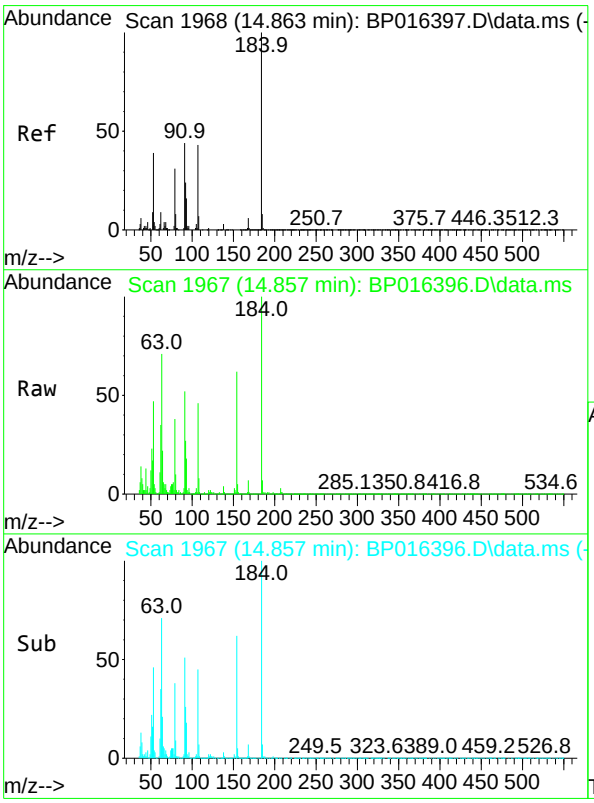
#53
3-Nitroaniline
Concen: 20.971 ng
RT: 14.663 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP016396.D
Acq: 27 Jul 2023 12:46

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:138 Resp: 365894

Ion	Ratio	Lower	Upper
138	100		
108	12.9	8.7	13.1
92	118.9	87.6	131.4

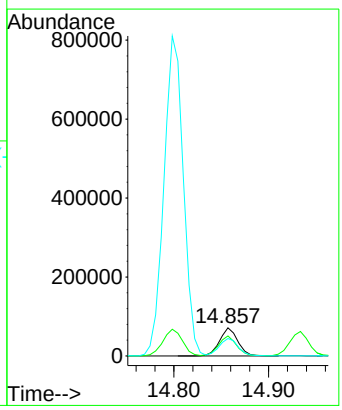


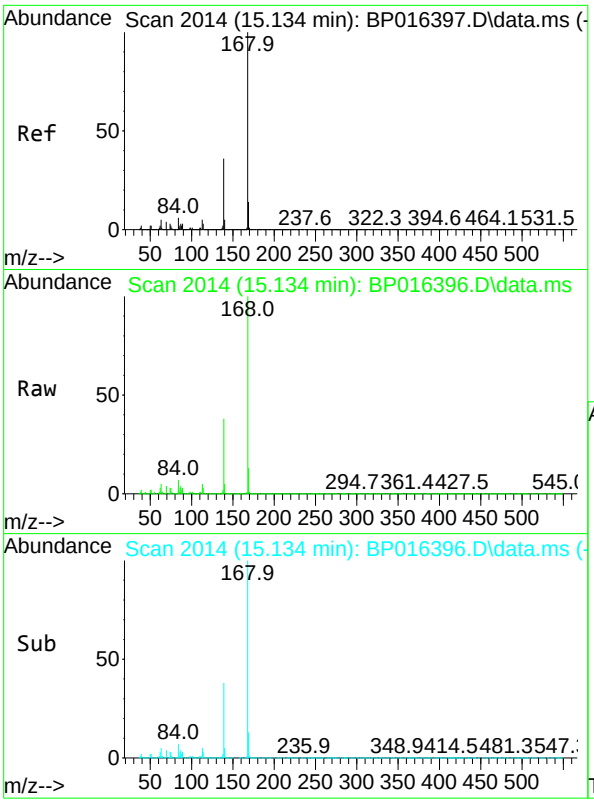


#54
2,4-Dinitrophenol
Concen: 19.844 ng
RT: 14.857 min Scan# 1967
Delta R.T. -0.006 min
Lab File: BP016396.D
Acq: 27 Jul 2023 12:46

Tgt Ion:184 Resp: 94998

Ion	Ratio	Lower	Upper
184	100		
63	71.4	48.2	72.4
154	61.9	49.6	74.4



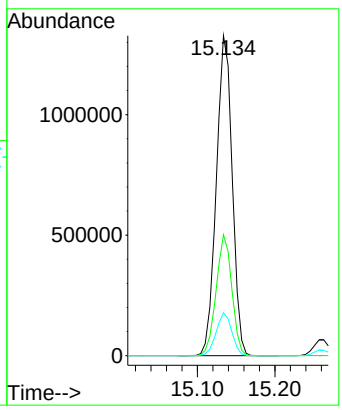


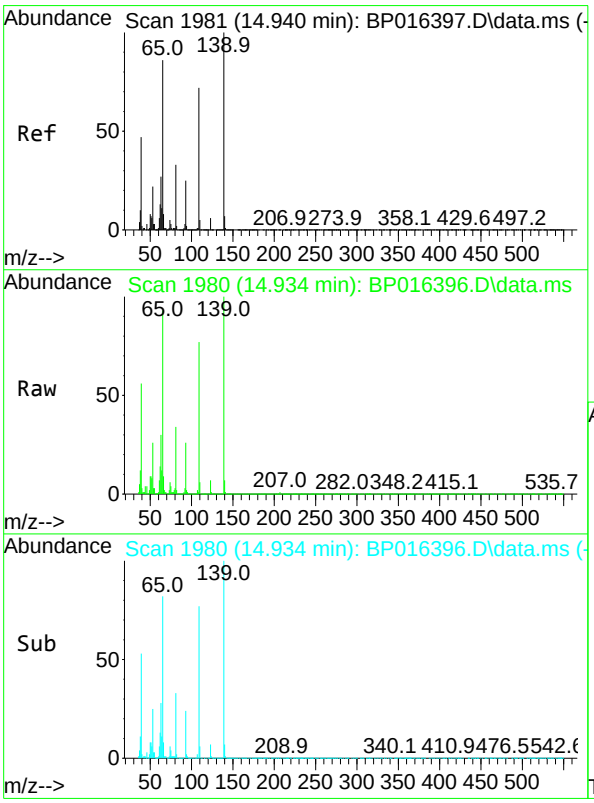
#55
Dibenzofuran
Concen: 21.019 ng
RT: 15.134 min Scan# 2(
Delta R.T. -0.000 min
Lab File: BP016396.D
Acq: 27 Jul 2023 12:46

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:168 Resp: 1890928

Ion	Ratio	Lower	Upper
168	100		
139	37.8	28.9	43.3
169	13.4	11.0	16.4

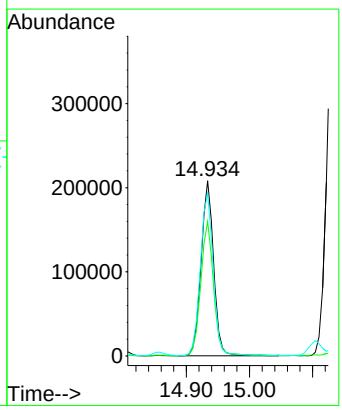


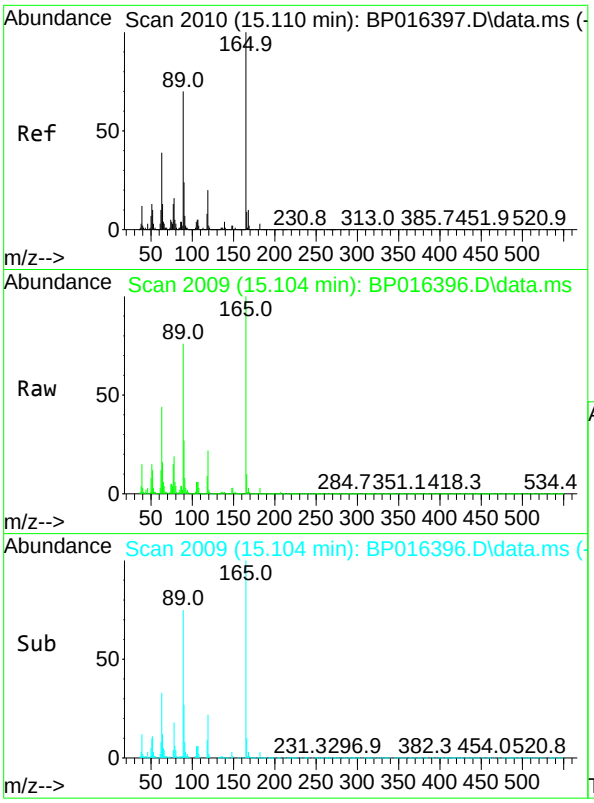


#56
4-Nitrophenol
Concen: 21.120 ng
RT: 14.934 min Scan# 1980
Delta R.T. -0.006 min
Lab File: BP016396.D
Acq: 27 Jul 2023 12:46

Tgt Ion:139 Resp: 288458

Ion	Ratio	Lower	Upper
139	100		
109	76.7	51.9	91.9
65	92.9	66.2	106.2



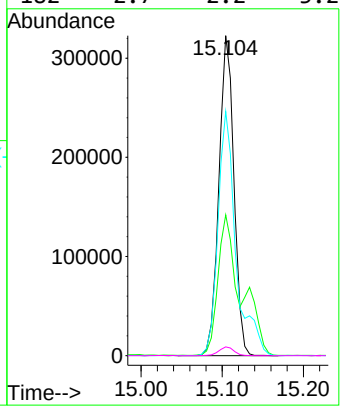


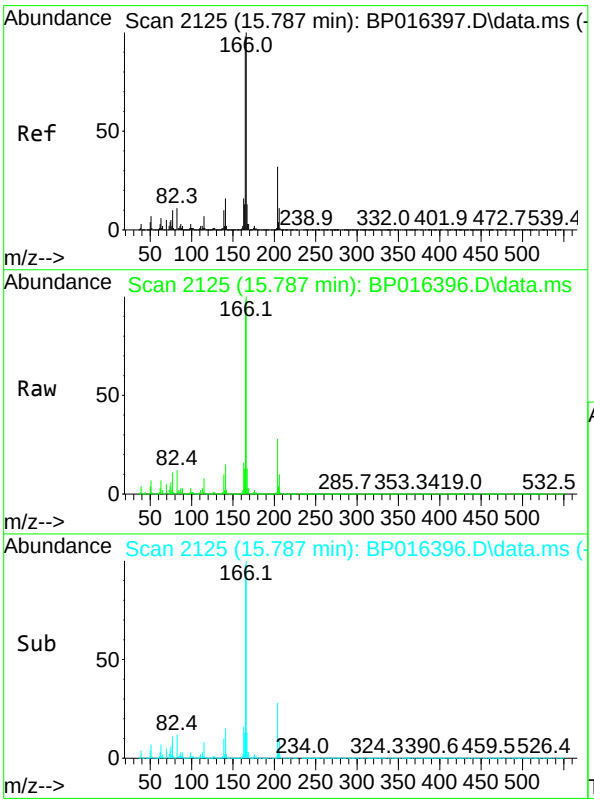
#57
2,4-Dinitrotoluene
Concen: 20.653 ng
RT: 15.104 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP016396.D
Acq: 27 Jul 2023 12:46

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:165 Resp: 415384

Ion	Ratio	Lower	Upper
165	100		
63	44.0	31.4	47.0
89	76.3	55.8	83.6
182	2.7	2.2	3.2

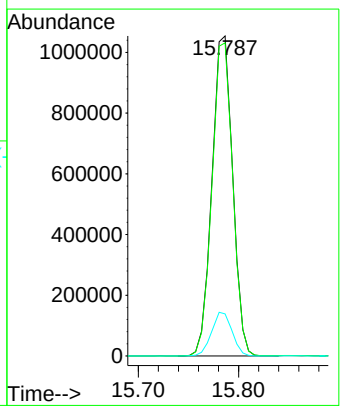


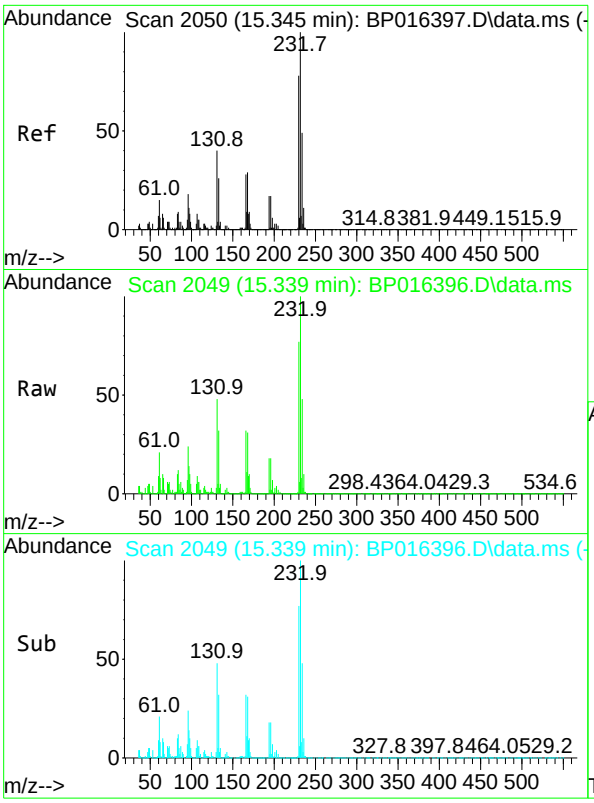


#58
Fluorene
Concen: 21.345 ng
RT: 15.787 min Scan# 2125
Delta R.T. -0.000 min
Lab File: BP016396.D
Acq: 27 Jul 2023 12:46

Tgt Ion:166 Resp: 1508591

Ion	Ratio	Lower	Upper
166	100		
165	97.9	78.0	117.0
167	13.1	10.6	16.0



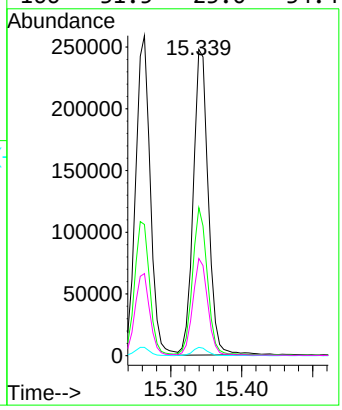


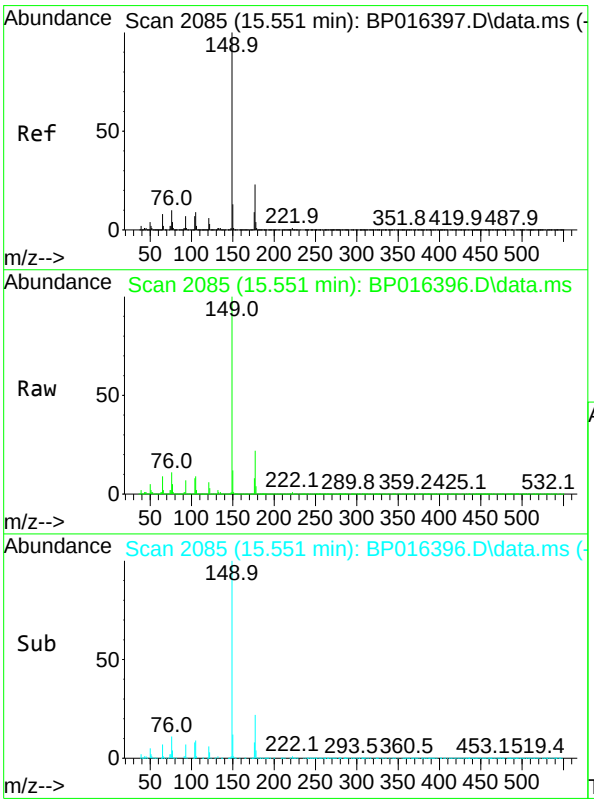
#59
2,3,4,6-Tetrachlorophenol
Concen: 19.380 ng
RT: 15.339 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP016396.D
Acq: 27 Jul 2023 12:46

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:232 Resp: 364574

Ion	Ratio	Lower	Upper
232	100		
131	47.8	33.1	49.7
130	2.6	1.8	2.8
166	31.5	23.0	34.4

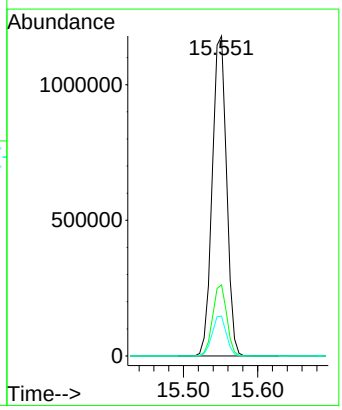


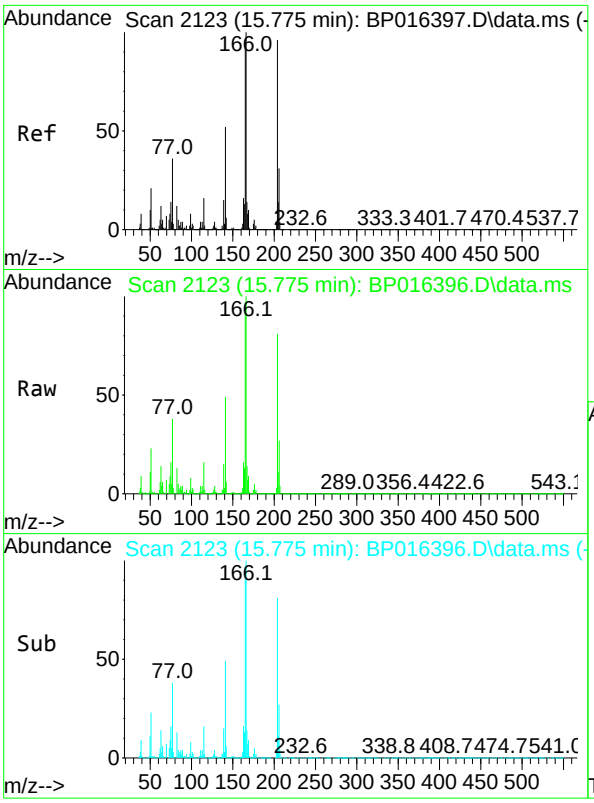


#60
Diethylphthalate
Concen: 21.137 ng
RT: 15.551 min Scan# 2085
Delta R.T. -0.000 min
Lab File: BP016396.D
Acq: 27 Jul 2023 12:46

Tgt Ion:149 Resp: 1582396

Ion	Ratio	Lower	Upper
149	100		
177	22.2	18.6	27.8
150	12.5	10.1	15.1



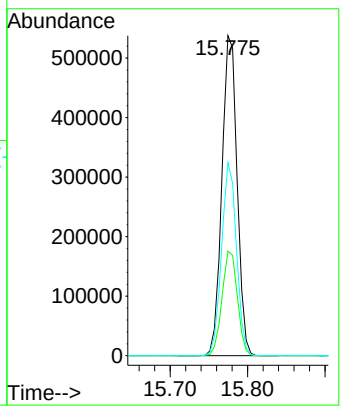


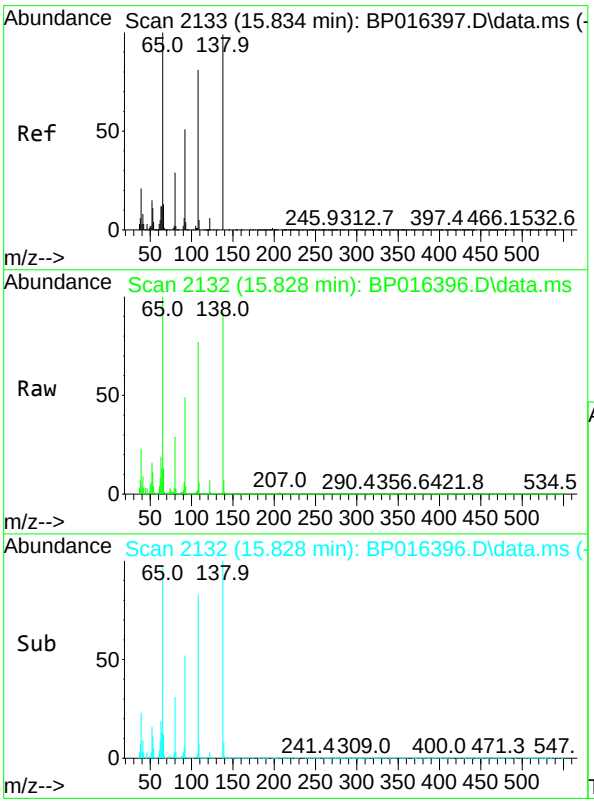
#61
4-Chlorophenyl-phenylether
Concen: 20.615 ng
RT: 15.775 min Scan# 21
Delta R.T. -0.000 min
Lab File: BP016396.D
Acq: 27 Jul 2023 12:46

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:204 Resp: 735241

Ion	Ratio	Lower	Upper
204	100		
206	32.7	26.2	39.4
141	60.3	43.4	65.0

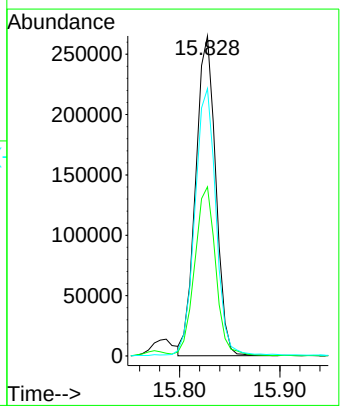


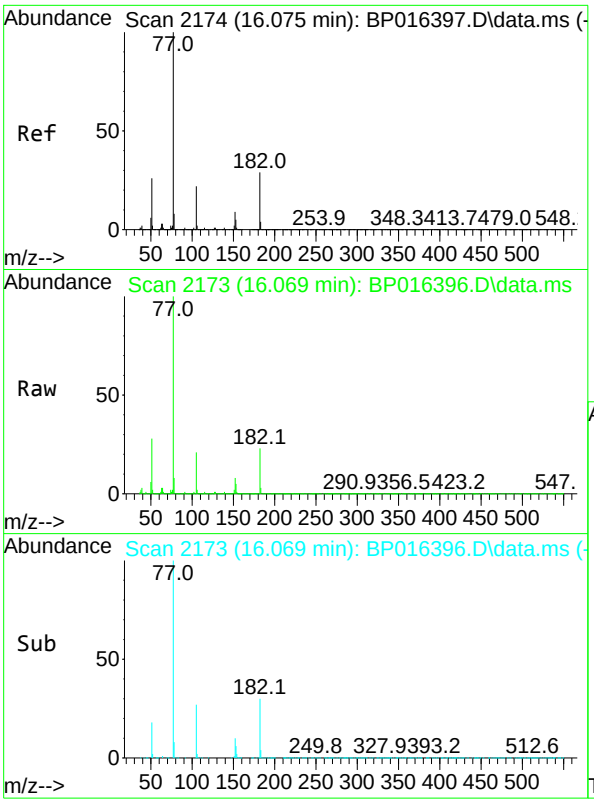


#62
4-Nitroaniline
Concen: 21.371 ng
RT: 15.828 min Scan# 2132
Delta R.T. -0.006 min
Lab File: BP016396.D
Acq: 27 Jul 2023 12:46

Tgt Ion:138 Resp: 370049

Ion	Ratio	Lower	Upper
138	100		
92	52.9	30.3	70.3
108	83.6	60.1	100.1



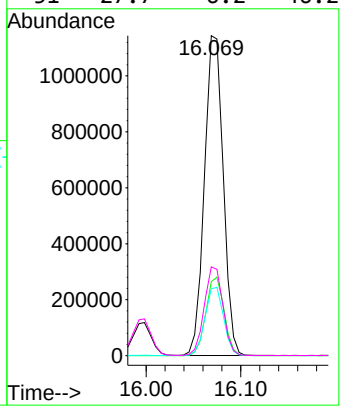


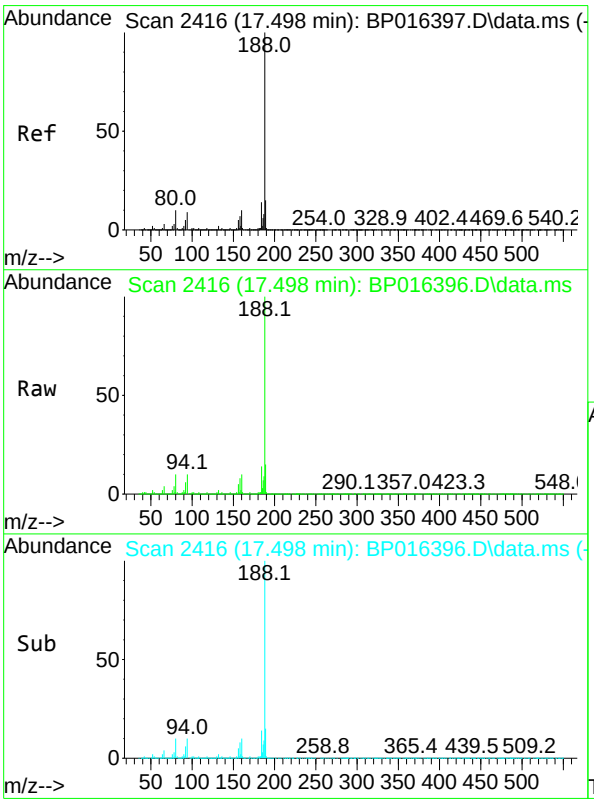
#63
Azobenzene
Concen: 22.354 ng
RT: 16.069 min Scan# 21
Delta R.T. -0.006 min
Lab File: BP016396.D
Acq: 27 Jul 2023 12:46

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion: 77 Resp: 1580135

Ion	Ratio	Lower	Upper
77	100		
182	23.1	8.6	48.6
105	20.9	2.4	42.4
51	27.7	6.2	46.2

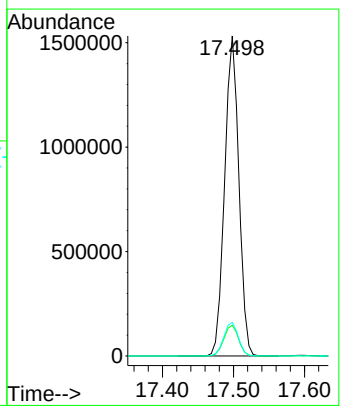


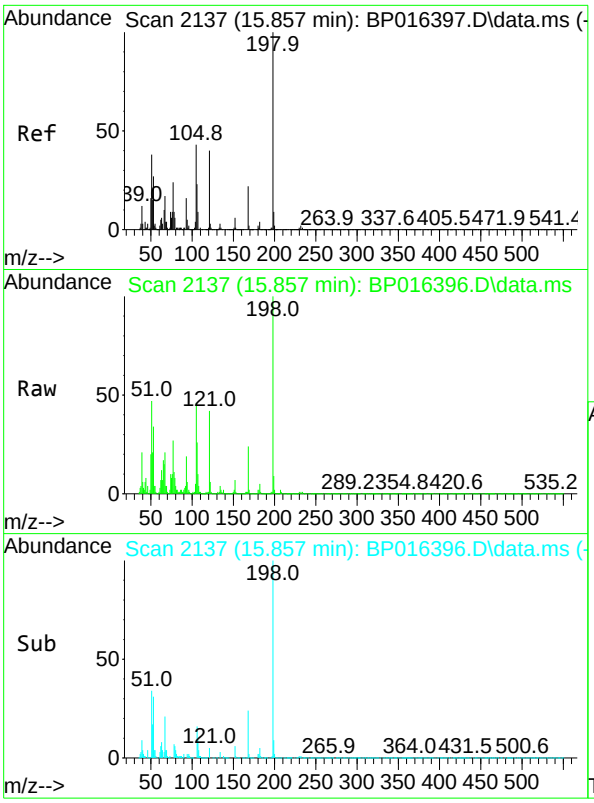


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.498 min Scan# 2416
Delta R.T. -0.000 min
Lab File: BP016396.D
Acq: 27 Jul 2023 12:46

Tgt Ion:188 Resp: 2120090

Ion	Ratio	Lower	Upper
188	100		
94	9.6	7.4	11.0
80	10.4	7.8	11.8



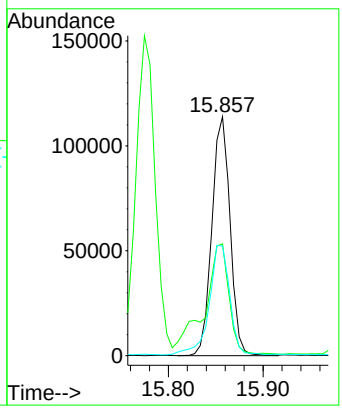


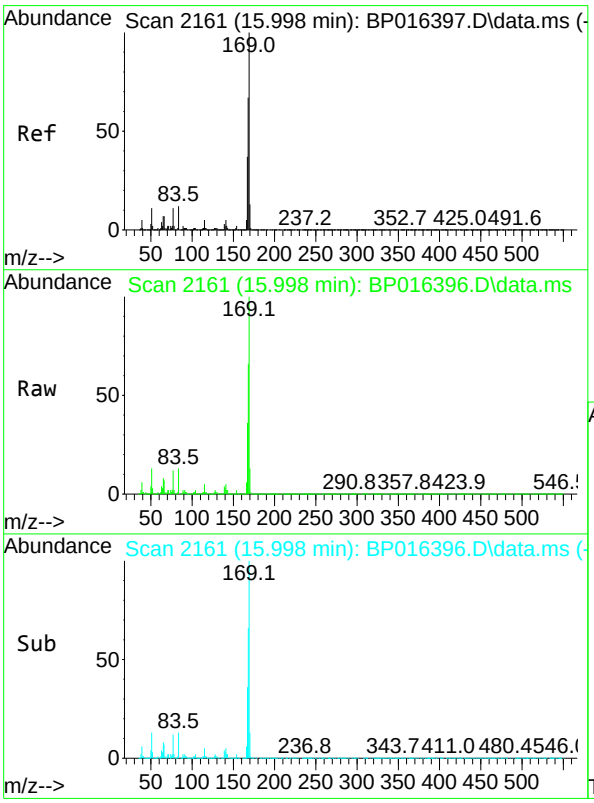
#65
4,6-Dinitro-2-methylphenol
Concen: 19.611 ng
RT: 15.857 min Scan# 21
Delta R.T. 0.000 min
Lab File: BP016396.D
Acq: 27 Jul 2023 12:46

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:198 Resp: 152091

Ion	Ratio	Lower	Upper
198	100		
51	46.8	20.1	60.1
105	45.9	23.1	63.1

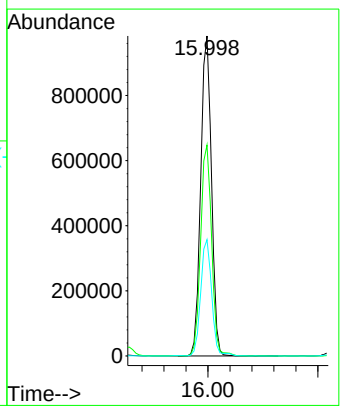


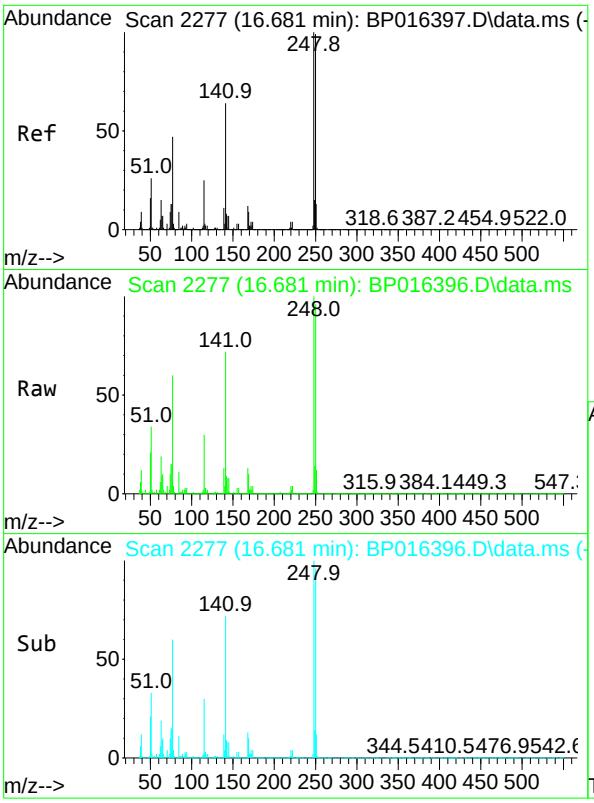


#66
n-Nitrosodiphenylamine
Concen: 21.365 ng
RT: 15.998 min Scan# 2161
Delta R.T. -0.000 min
Lab File: BP016396.D
Acq: 27 Jul 2023 12:46

Tgt Ion:169 Resp: 1334913

Ion	Ratio	Lower	Upper
169	100		
168	65.9	53.6	80.4
167	36.4	29.2	43.8



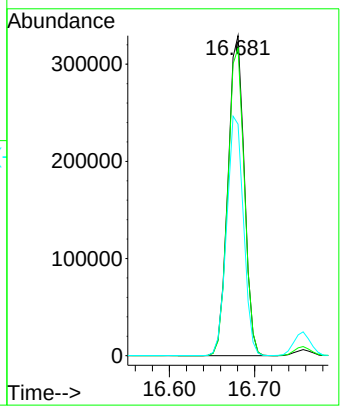


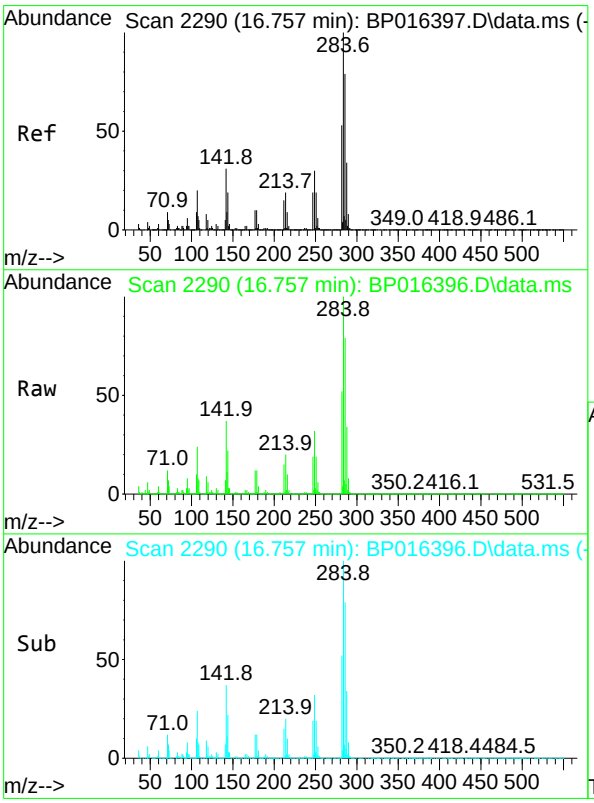
#67
4-Bromophenyl-phenylether
Concen: 19.611 ng
RT: 16.681 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP016396.D
Acq: 27 Jul 2023 12:46

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:248 Resp: 440252

Ion	Ratio	Lower	Upper
248	100		
250	96.1	78.9	118.3
141	72.3	51.0	76.4

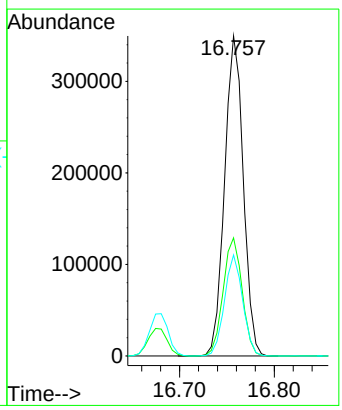


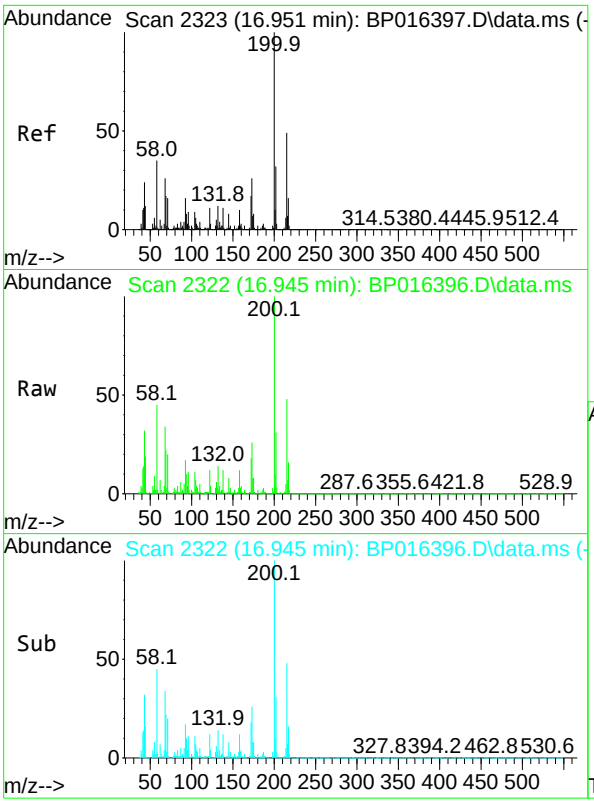


#68
Hexachlorobenzene
Concen: 19.144 ng
RT: 16.757 min Scan# 2290
Delta R.T. -0.000 min
Lab File: BP016396.D
Acq: 27 Jul 2023 12:46

Tgt Ion:284 Resp: 479271

Ion	Ratio	Lower	Upper
284	100		
142	36.9	25.2	37.8
249	31.5	26.0	39.0



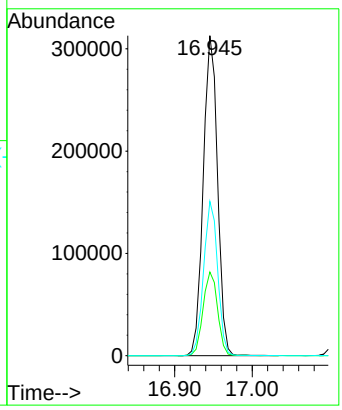


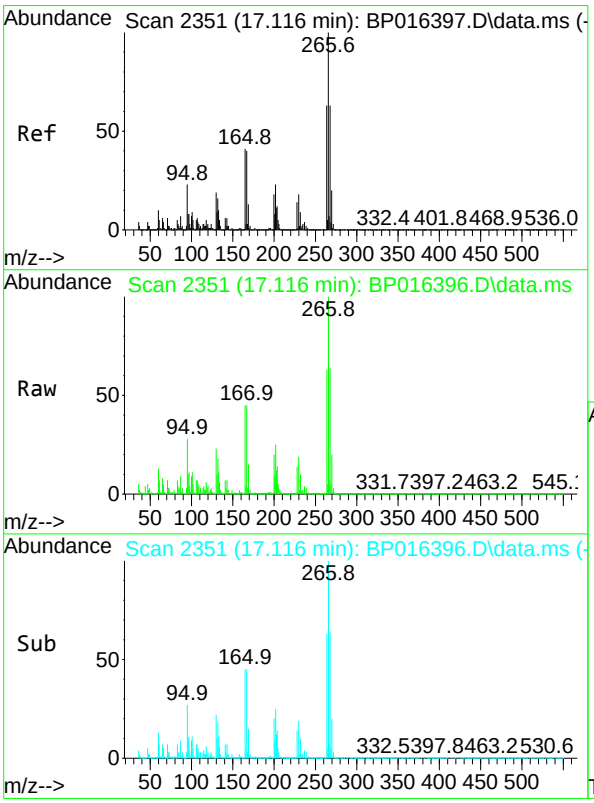
#69
Atrazine
Concen: 21.518 ng
RT: 16.945 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP016396.D
Acq: 27 Jul 2023 12:46

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:200 Resp: 399843

Ion	Ratio	Lower	Upper
200	100		
173	26.1	5.8	45.8
215	48.2	29.2	69.2

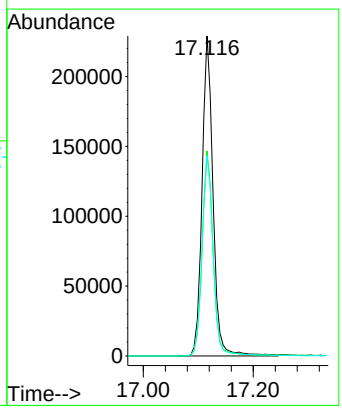


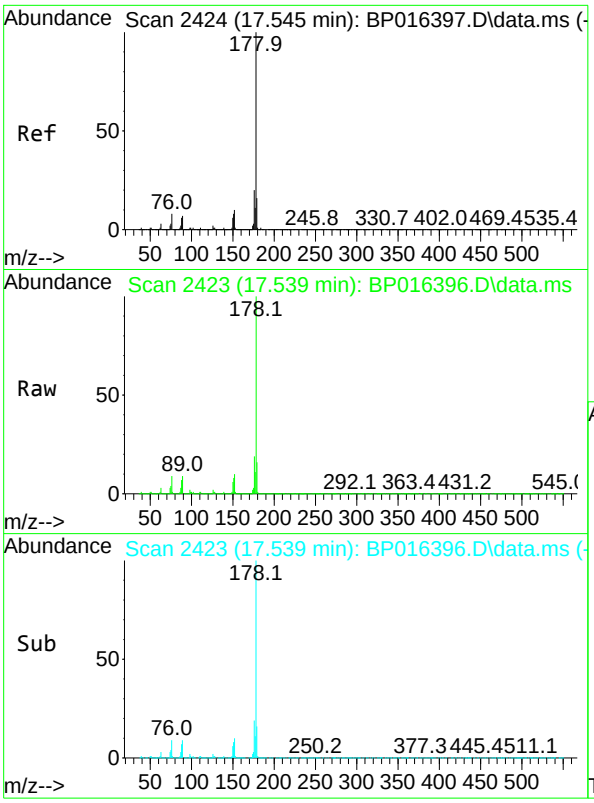


#70
Pentachlorophenol
Concen: 18.308 ng
RT: 17.116 min Scan# 2351
Delta R.T. -0.000 min
Lab File: BP016396.D
Acq: 27 Jul 2023 12:46

Tgt Ion:266 Resp: 317177

Ion	Ratio	Lower	Upper
266	100		
268	64.0	53.9	80.9
264	62.5	54.9	82.3



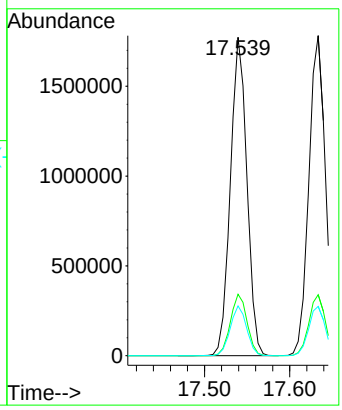


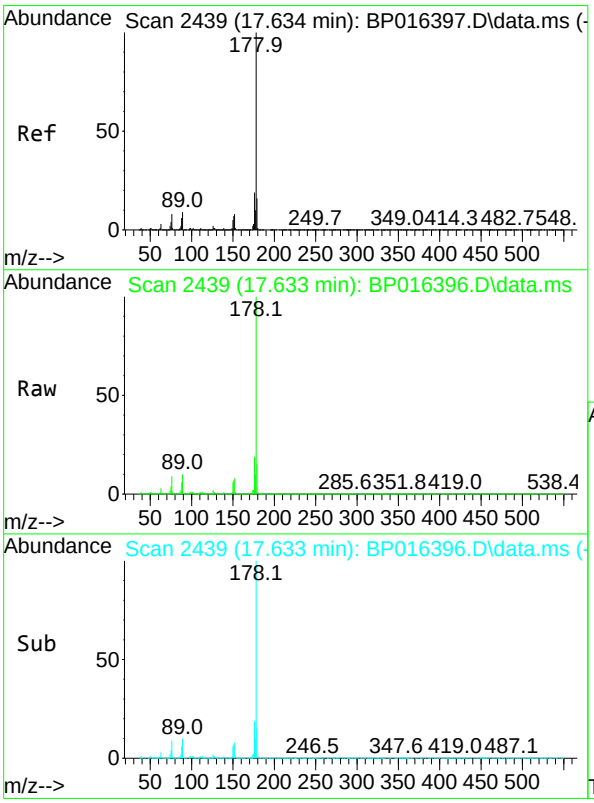
#71
Phenanthrene
Concen: 21.188 ng
RT: 17.539 min Scan# 24
Delta R.T. -0.006 min
Lab File: BP016396.D
Acq: 27 Jul 2023 12:46

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:178 Resp: 2385269

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.8	23.8
179	15.6	12.4	18.6

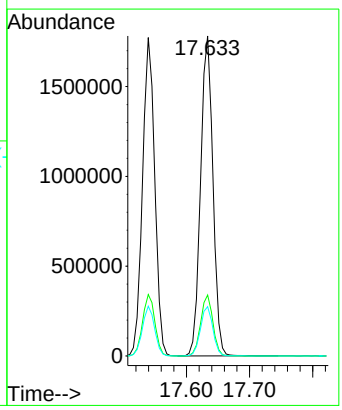


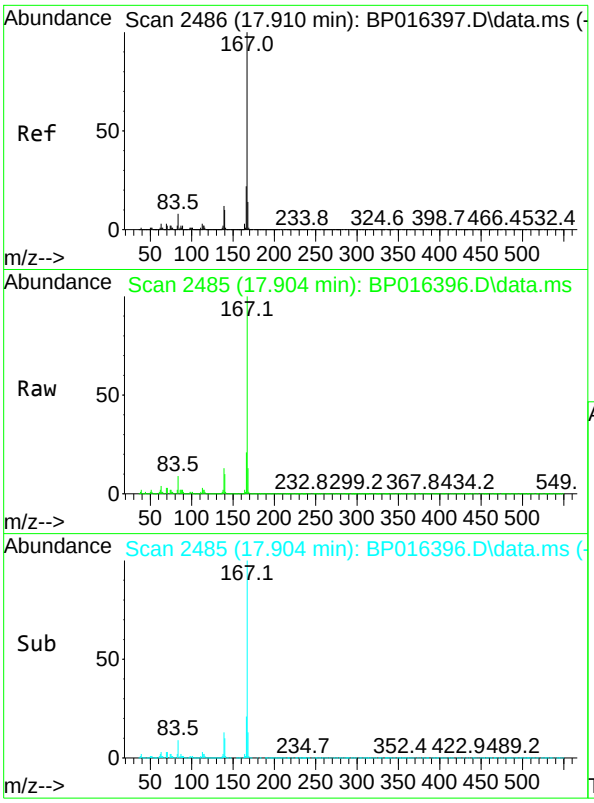


#72
Anthracene
Concen: 21.313 ng
RT: 17.633 min Scan# 2439
Delta R.T. -0.000 min
Lab File: BP016396.D
Acq: 27 Jul 2023 12:46

Tgt Ion:178 Resp: 2412631

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.2	22.8
179	15.4	12.6	19.0



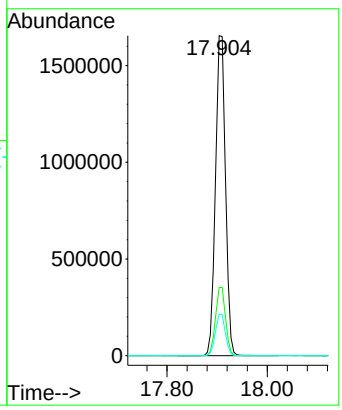


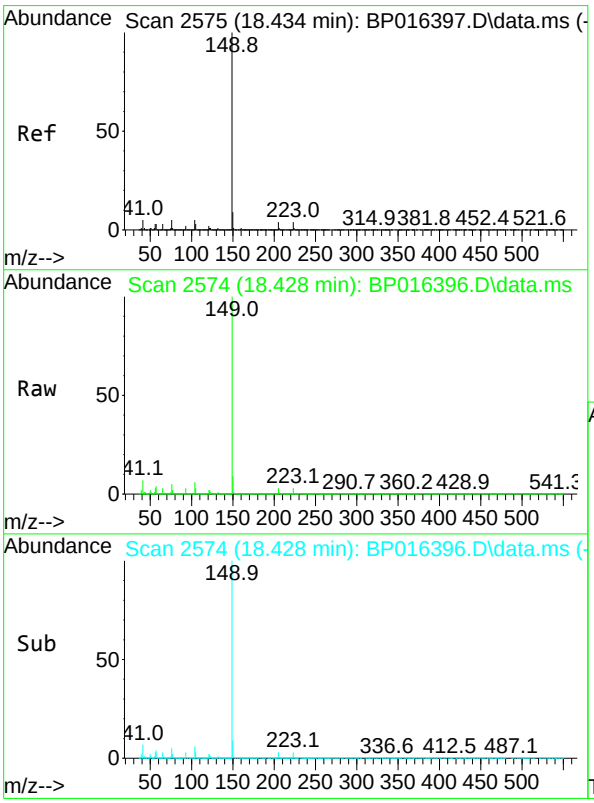
#73
Carbazole
Concen: 21.580 ng
RT: 17.904 min Scan# 24
Delta R.T. -0.006 min
Lab File: BP016396.D
Acq: 27 Jul 2023 12:46

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:167 Resp: 2290309

Ion	Ratio	Lower	Upper
167	100		
166	21.3	17.2	25.8
139	13.0	9.9	14.9

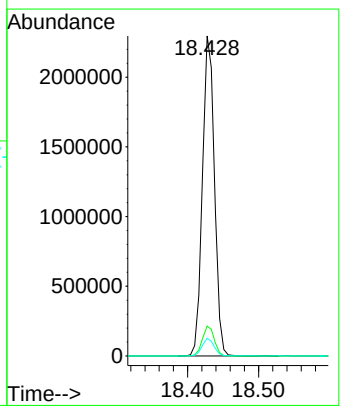


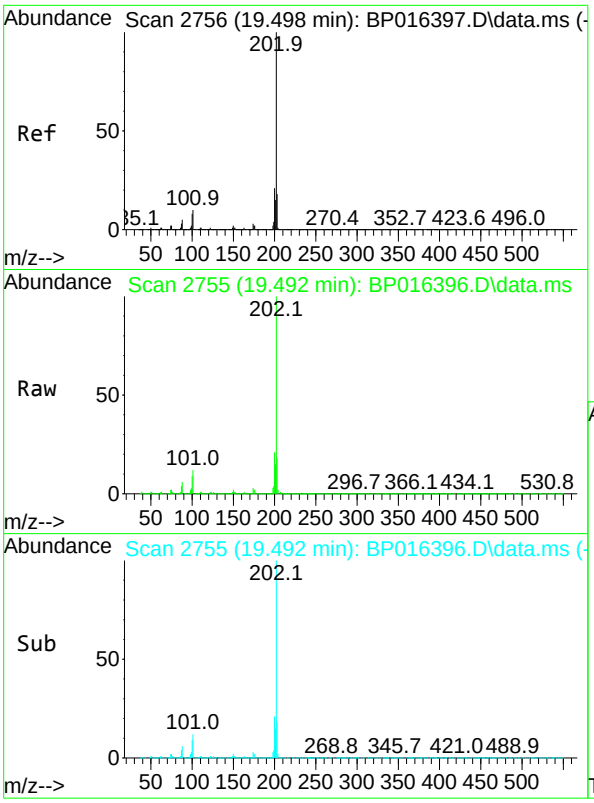


#74
Di-n-butylphthalate
Concen: 22.045 ng
RT: 18.428 min Scan# 2574
Delta R.T. -0.006 min
Lab File: BP016396.D
Acq: 27 Jul 2023 12:46

Tgt Ion:149 Resp: 2706830

Ion	Ratio	Lower	Upper
149	100		
150	9.4	7.4	11.2
104	5.5	3.8	5.8



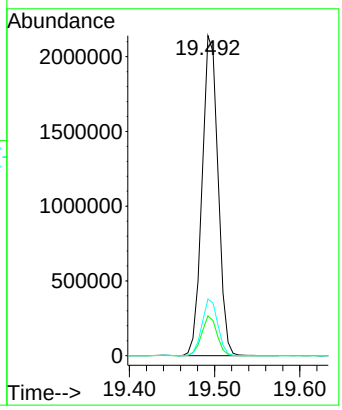


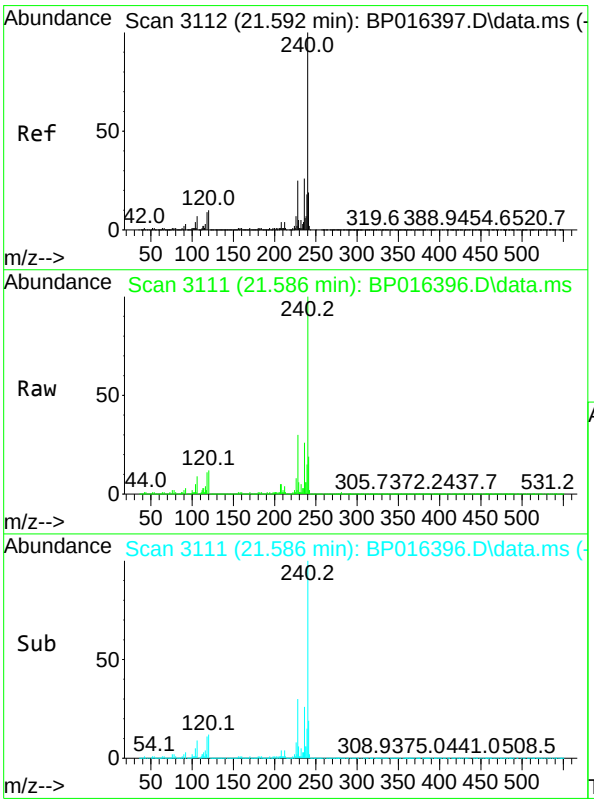
#75
Fluoranthene
Concen: 21.056 ng
RT: 19.492 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP016396.D
Acq: 27 Jul 2023 12:46

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:202 Resp: 2778362

Ion	Ratio	Lower	Upper
202	100		
101	12.4	0.0	30.2
203	17.7	0.0	37.9

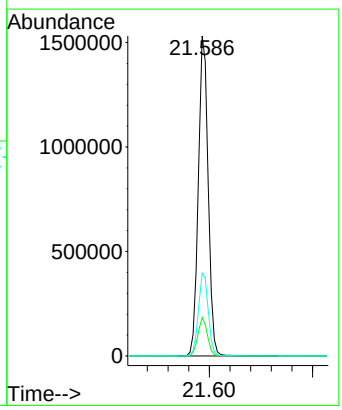


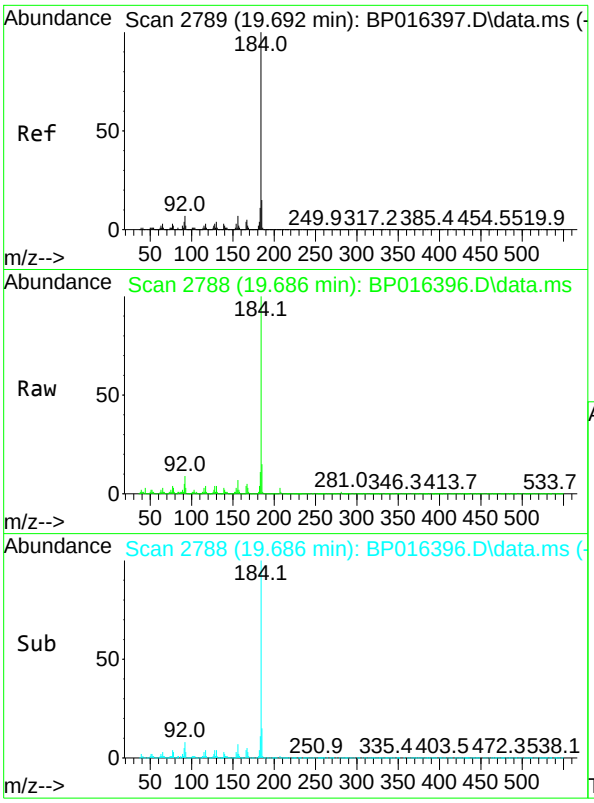


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.586 min Scan# 3111
Delta R.T. -0.006 min
Lab File: BP016396.D
Acq: 27 Jul 2023 12:46

Tgt Ion:240 Resp: 2013573

Ion	Ratio	Lower	Upper
240	100		
120	12.0	7.9	11.9#
236	25.9	21.1	31.7



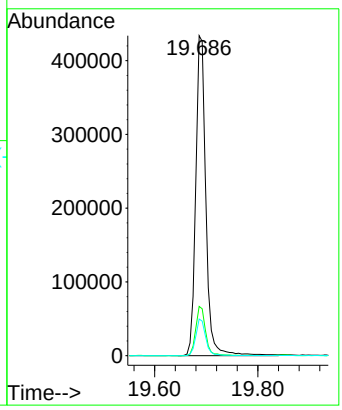


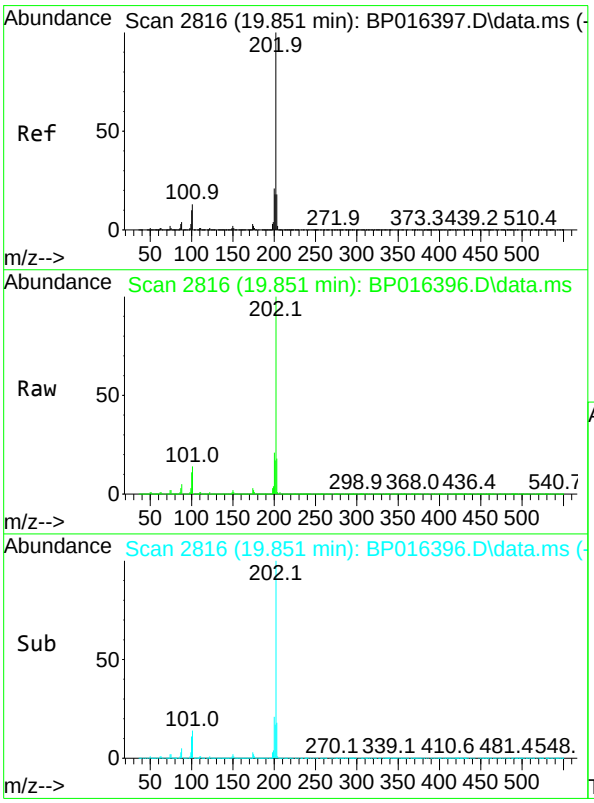
#77
Benzidine
Concen: 16.857 ng
RT: 19.686 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP016396.D
Acq: 27 Jul 2023 12:46

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:184 Resp: 588492

Ion	Ratio	Lower	Upper
184	100		
185	15.4	12.0	18.0
183	11.5	9.2	13.8

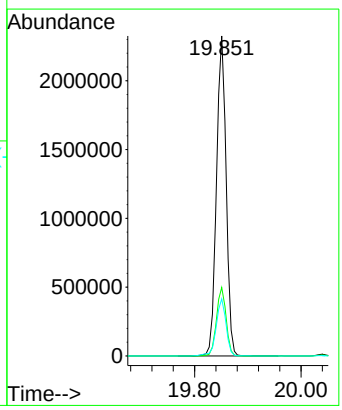


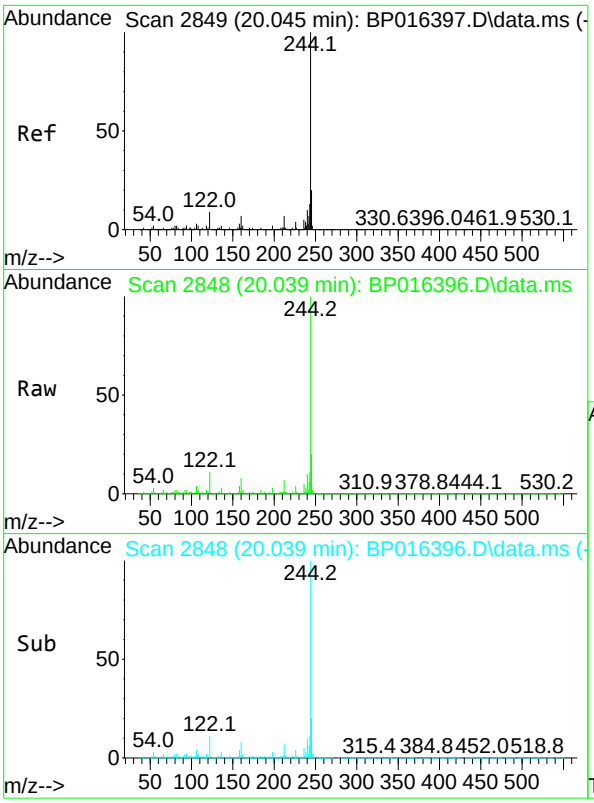


#78
Pyrene
Concen: 21.640 ng
RT: 19.851 min Scan# 2816
Delta R.T. -0.000 min
Lab File: BP016396.D
Acq: 27 Jul 2023 12:46

Tgt Ion:202 Resp: 2921026

Ion	Ratio	Lower	Upper
202	100		
200	21.4	17.1	25.7
203	17.8	14.4	21.6



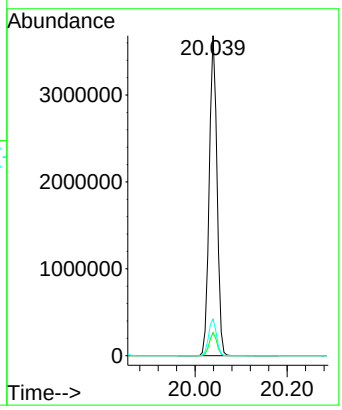


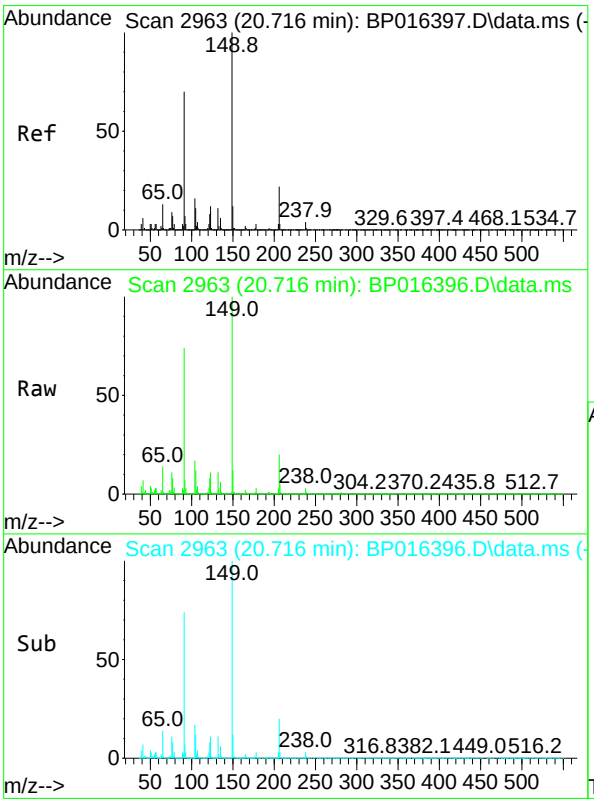
#79
Terphenyl-d14
Concen: 45.260 ng
RT: 20.039 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP016396.D
Acq: 27 Jul 2023 12:46

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:244 Resp: 4314259

Ion	Ratio	Lower	Upper
244	100		
212	7.2	5.6	8.4
122	11.4	7.4	11.2#

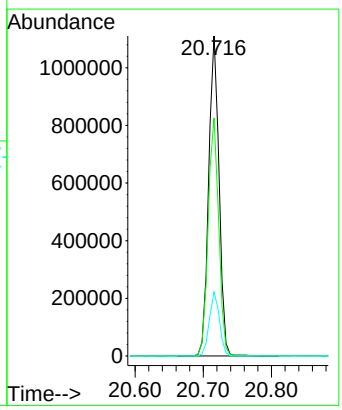


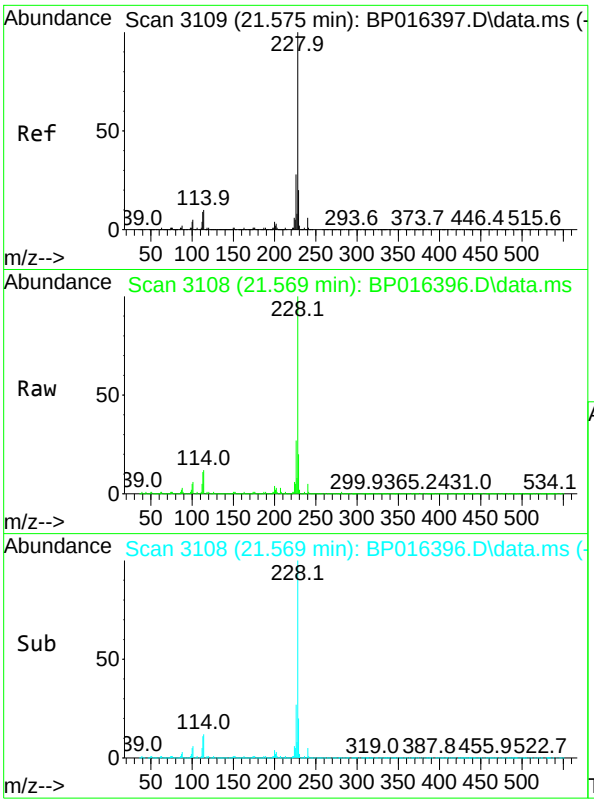


#80
Butylbenzylphthalate
Concen: 22.131 ng
RT: 20.716 min Scan# 2963
Delta R.T. -0.000 min
Lab File: BP016396.D
Acq: 27 Jul 2023 12:46

Tgt Ion:149 Resp: 1173572

Ion	Ratio	Lower	Upper
149	100		
91	74.3	56.1	84.1
206	20.0	17.8	26.6



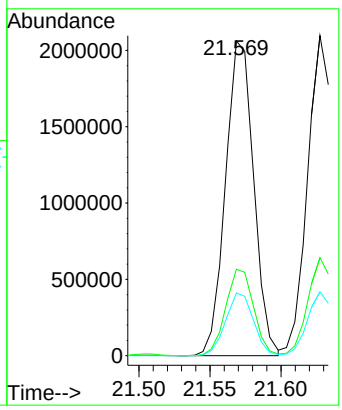


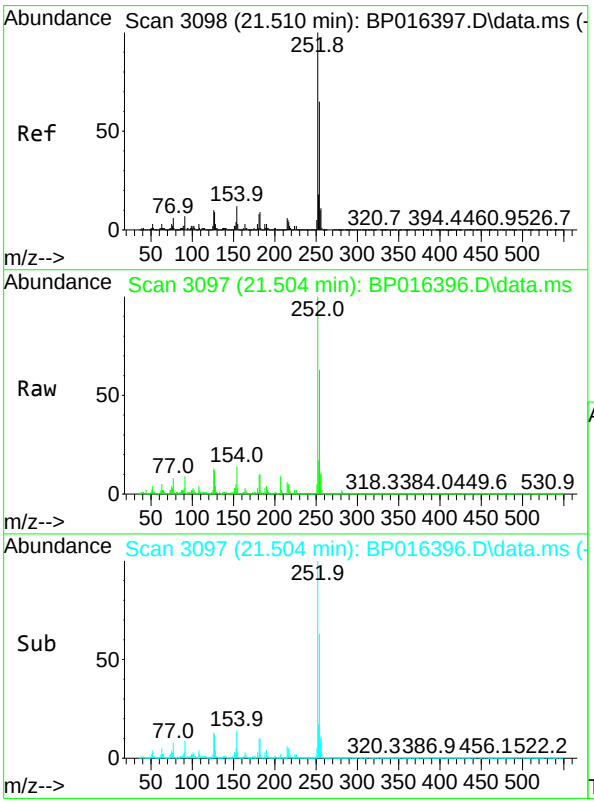
#81
Benzo(a)anthracene
Concen: 21.058 ng
RT: 21.569 min Scan# 31
Delta R.T. -0.006 min
Lab File: BP016396.D
Acq: 27 Jul 2023 12:46

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:228 Resp: 2844924

Ion	Ratio	Lower	Upper
228	100		
226	27.5	22.4	33.6
229	20.0	16.2	24.4

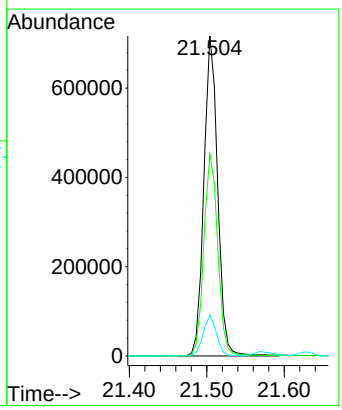


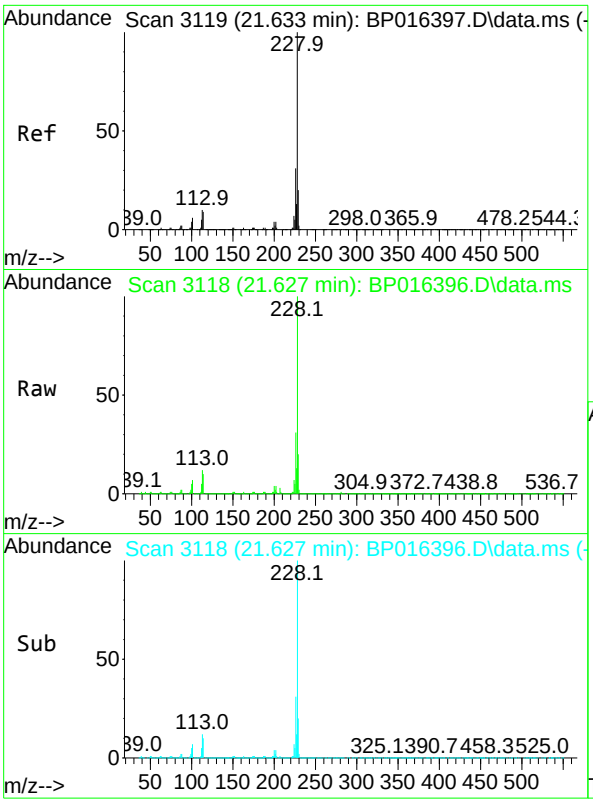


#82
3,3'-Dichlorobenzidine
Concen: 19.917 ng
RT: 21.504 min Scan# 3097
Delta R.T. -0.006 min
Lab File: BP016396.D
Acq: 27 Jul 2023 12:46

Tgt Ion:252 Resp: 883284

Ion	Ratio	Lower	Upper
252	100		
254	62.9	52.2	78.2
126	12.8	7.8	11.6#



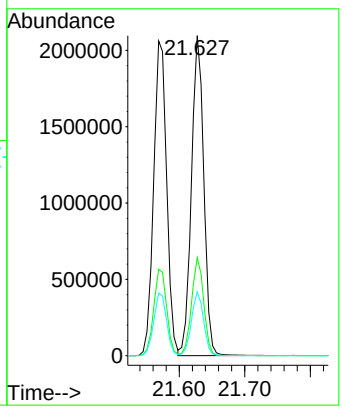


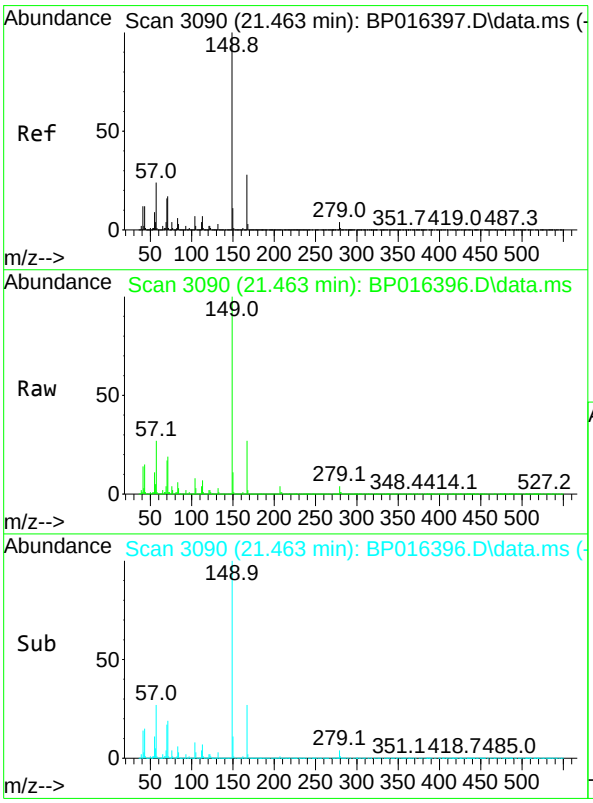
#83
Chrysene
Concen: 21.288 ng
RT: 21.627 min Scan# 3
Delta R.T. -0.006 min
Lab File: BP016396.D
Acq: 27 Jul 2023 12:46

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:228 Resp: 2746352

Ion	Ratio	Lower	Upper
228	100		
226	30.7	24.6	37.0
229	19.9	16.0	24.0

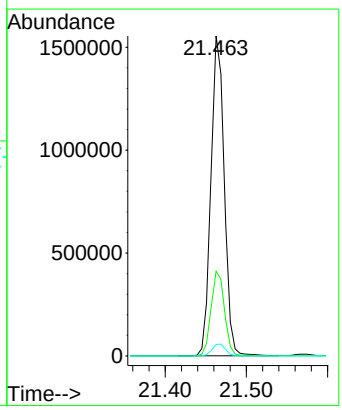


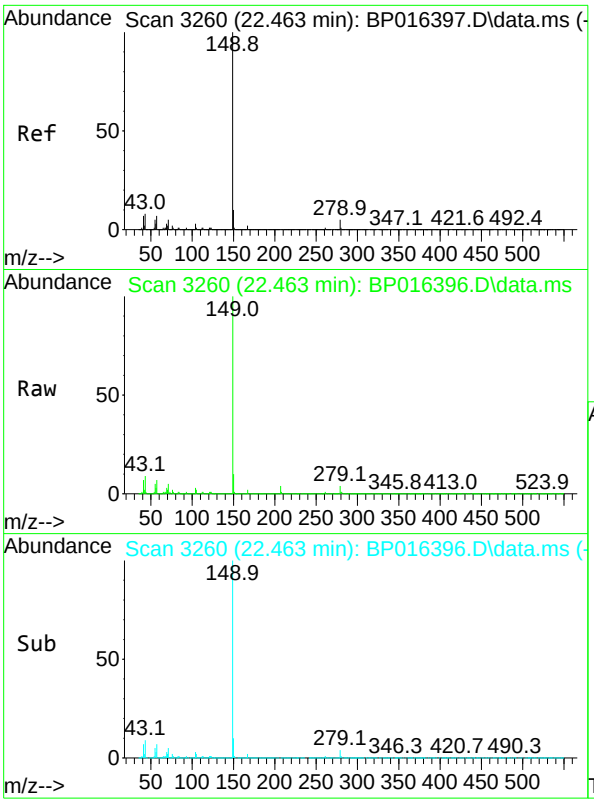


#84
Bis(2-ethylhexyl)phthalate
Concen: 22.257 ng
RT: 21.463 min Scan# 3090
Delta R.T. -0.000 min
Lab File: BP016396.D
Acq: 27 Jul 2023 12:46

Tgt Ion:149 Resp: 1771980

Ion	Ratio	Lower	Upper
149	100		
167	26.5	22.5	33.7
279	3.6	3.6	5.4



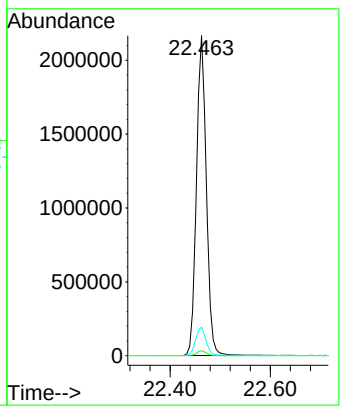


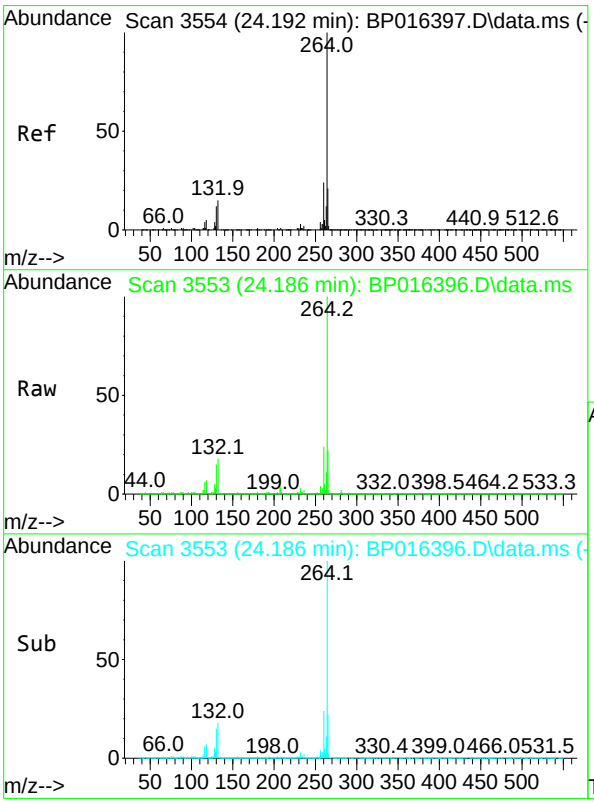
#85
Di-n-octyl phthalate
Concen: 22.050 ng
RT: 22.463 min Scan# 3
Delta R.T. -0.000 min
Lab File: BP016396.D
Acq: 27 Jul 2023 12:46

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:149 Resp: 2952468

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	9.5	6.6	9.8

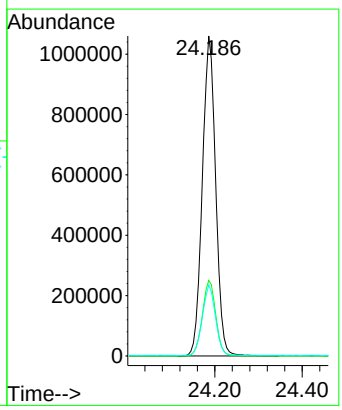


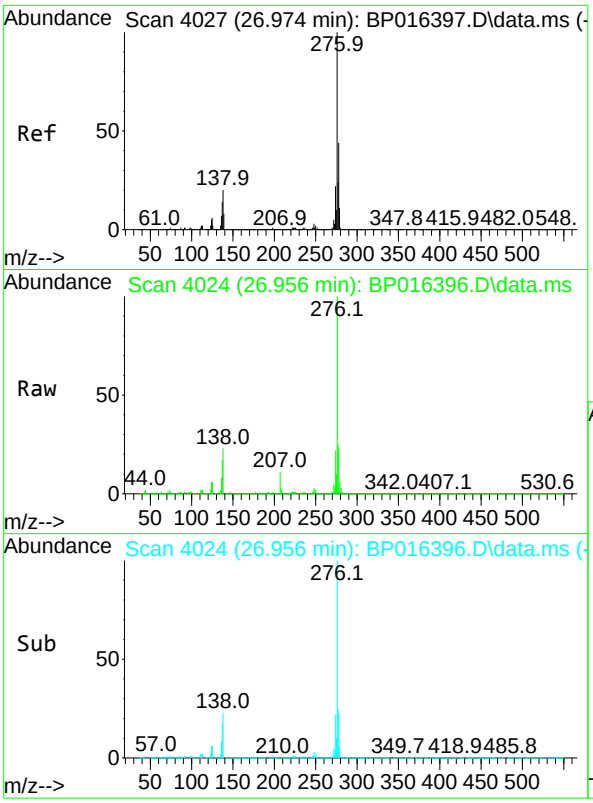


#86
Perylene-d12
Concen: 20.000 ng
RT: 24.186 min Scan# 3553
Delta R.T. -0.006 min
Lab File: BP016396.D
Acq: 27 Jul 2023 12:46

Tgt Ion:264 Resp: 2252321

Ion	Ratio	Lower	Upper
264	100		
260	23.6	19.3	28.9
265	22.2	17.4	26.0



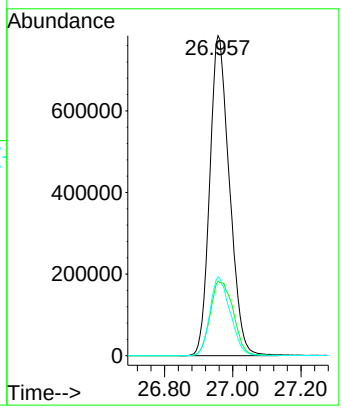


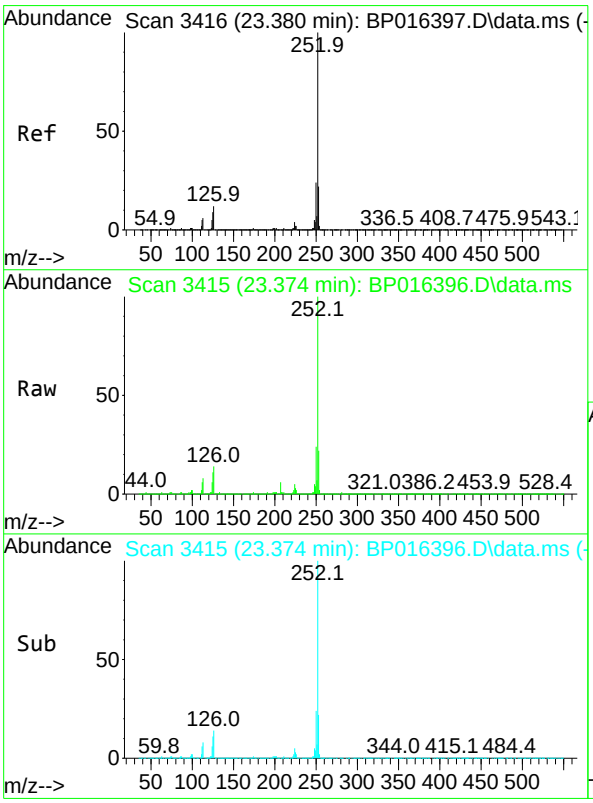
#87
Indeno(1,2,3-cd)pyrene
Concen: 20.735 ng
RT: 26.956 min Scan# 4
Delta R.T. -0.018 min
Lab File: BP016396.D
Acq: 27 Jul 2023 12:46

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:276 Resp: 3148504

Ion	Ratio	Lower	Upper
276	100		
138	27.2	18.4	27.6
277	25.4	20.4	30.6

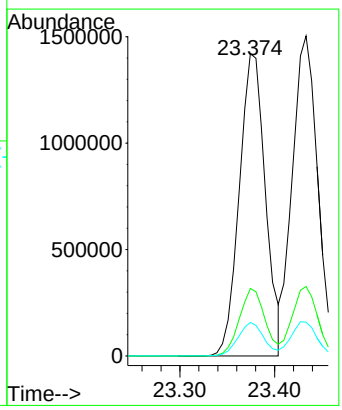


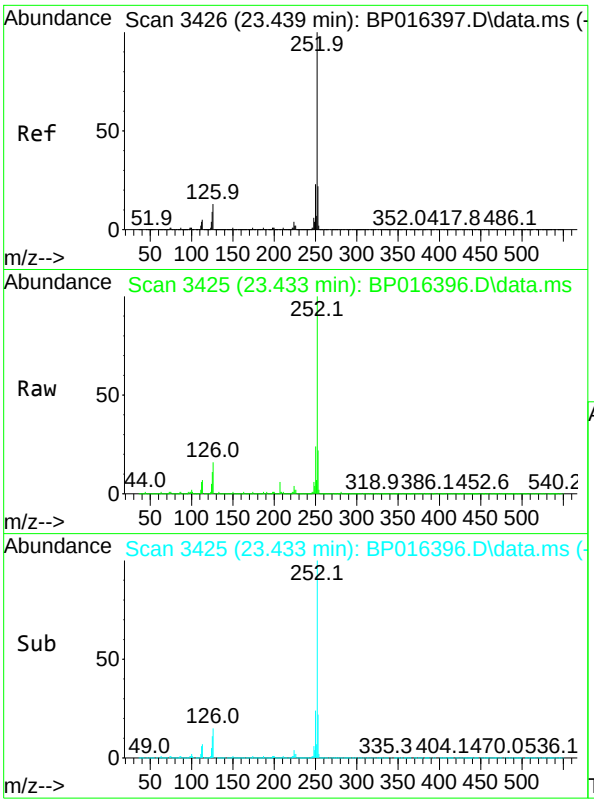


#88
Benzo(b)fluoranthene
Concen: 20.862 ng
RT: 23.374 min Scan# 3415
Delta R.T. -0.006 min
Lab File: BP016396.D
Acq: 27 Jul 2023 12:46

Tgt Ion:252 Resp: 2723544

Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.8	26.8
125	11.1	7.4	11.2



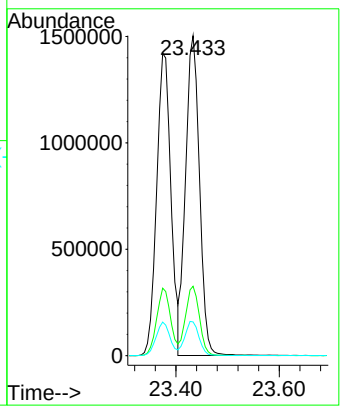


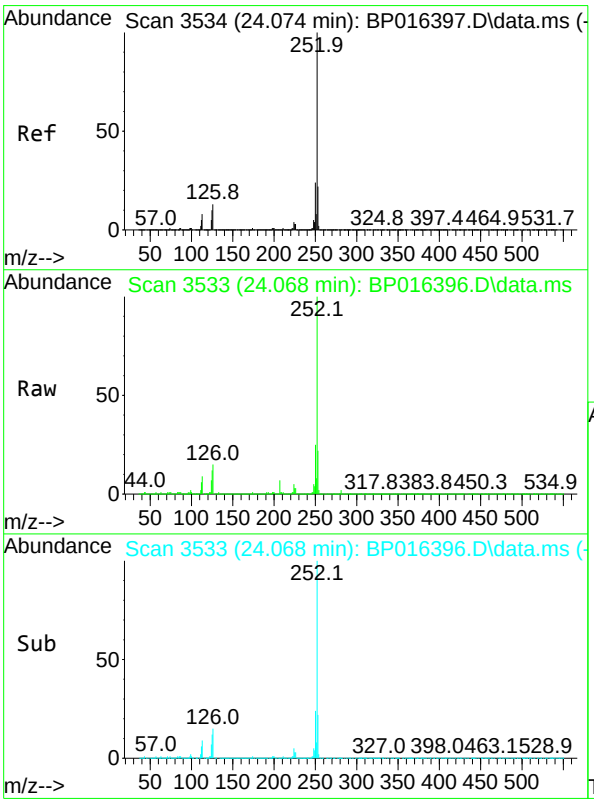
#89
Benzo(k)fluoranthene
Concen: 21.134 ng
RT: 23.433 min Scan# 34
Delta R.T. -0.006 min
Lab File: BP016396.D
Acq: 27 Jul 2023 12:46

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:252 Resp: 2806259

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.8	26.8
125	10.5	7.1	10.7

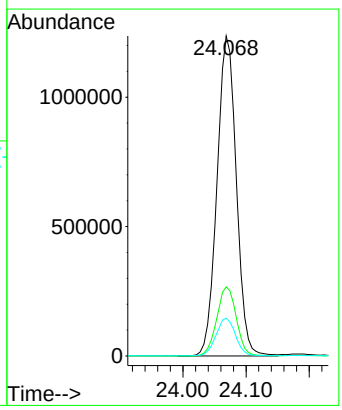


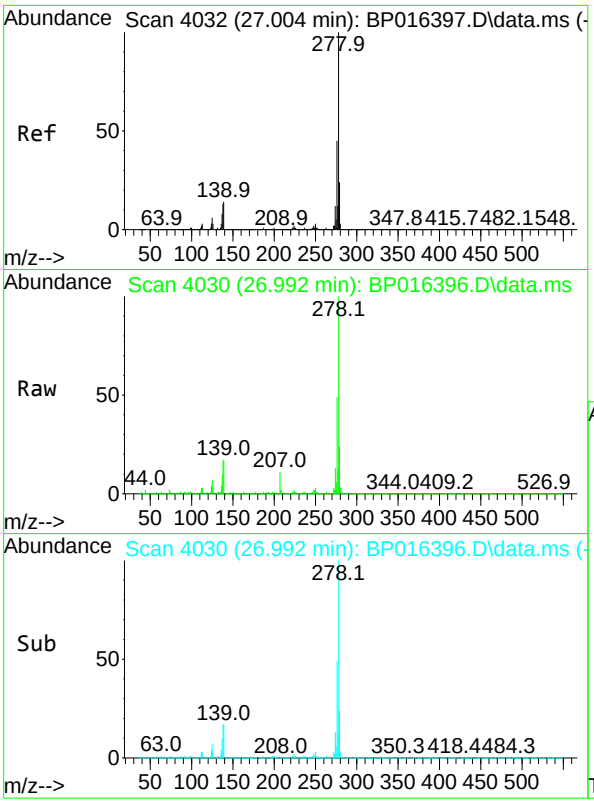


#90
Benzo(a)pyrene
Concen: 20.800 ng
RT: 24.068 min Scan# 3533
Delta R.T. -0.006 min
Lab File: BP016396.D
Acq: 27 Jul 2023 12:46

Tgt Ion:252 Resp: 2630431

Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.8	26.6
125	11.8	8.3	12.5



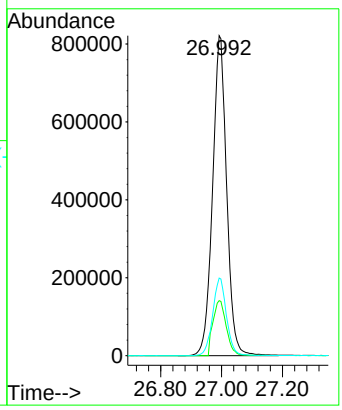


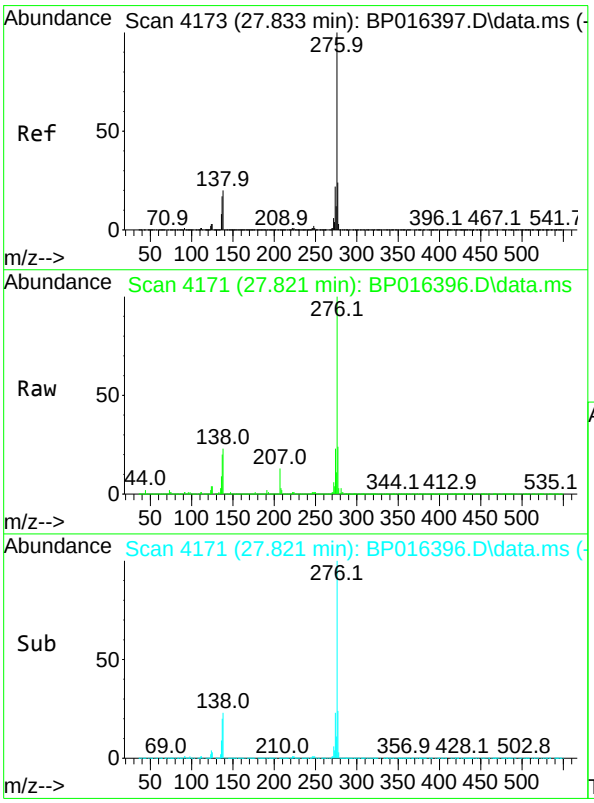
#91
Dibenzo(a,h)anthracene
Concen: 20.806 ng
RT: 26.992 min Scan# 4
Delta R.T. -0.012 min
Lab File: BP016396.D
Acq: 27 Jul 2023 12:46

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:278 Resp: 2634790

Ion	Ratio	Lower	Upper
278	100		
139	17.2	11.6	17.4
279	24.2	19.0	28.6

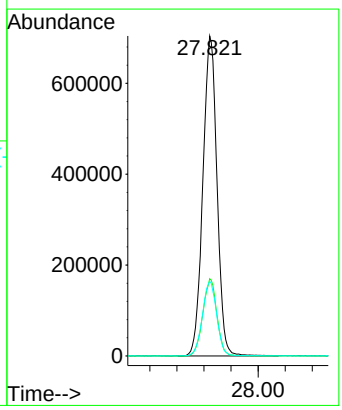




#92
Benzo(g,h,i)perylene
Concen: 20.874 ng
RT: 27.821 min Scan# 4171
Delta R.T. -0.012 min
Lab File: BP016396.D
Acq: 27 Jul 2023 12:46

Tgt Ion:276 Resp: 2547298

Ion	Ratio	Lower	Upper
276	100		
277	24.1	19.2	28.8
138	23.4	16.1	24.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP072723\
Data File : BP016397.D
Acq On : 27 Jul 2023 13:20
Operator : MA/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Quant Time: Jul 27 17:36:06 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP072723.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jul 27 17:32:49 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.093	152	451043	20.000	ng	0.00
21) Naphthalene-d8	10.928	136	1833535	20.000	ng	0.00
39) Acenaphthene-d10	14.734	164	1151480	20.000	ng	0.00
64) Phenanthrene-d10	17.498	188	2571002	20.000	ng	0.00
76) Chrysene-d12	21.592	240	2514886	20.000	ng	0.00
86) Perylene-d12	24.192	264	2825363	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.605	112	2203565	79.703	ng	0.00
7) Phenol-d6	7.228	99	3048278	80.439	ng	0.00
23) Nitrobenzene-d5	9.293	82	2651658	80.956	ng	0.00
42) 2,4,6-Tribromophenol	16.228	330	1462756	86.349	ng	0.00
45) 2-Fluorobiphenyl	13.363	172	6531814	81.326	ng	0.00
79) Terphenyl-d14	20.045	244	10031553	84.262	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.464	88	413883	38.383	ng	100
3) Pyridine	3.875	79	1269033	39.999	ng	100
4) n-Nitrosodimethylamine	3.805	42	472382	38.871	ng	100
6) Aniline	7.422	93	1885875	40.290	ng	100
8) 2-Chlorophenol	7.646	128	1178680	40.661	ng	100
9) Benzaldehyde	7.246	77	721533	41.035	ng	100
10) Phenol	7.252	94	1473275	40.033	ng	100
11) bis(2-Chloroethyl)ether	7.522	93	1188648	39.734	ng	100
12) 1,3-Dichlorobenzene	7.975	146	1240579	39.865	ng	100
13) 1,4-Dichlorobenzene	8.128	146	1258217	39.858	ng	100
14) 1,2-Dichlorobenzene	8.446	146	1222529	40.223	ng	100
15) Benzyl Alcohol	8.340	79	1055274	40.760	ng	100
16) 2,2'-oxybis(1-Chloropr...	8.628	45	1332082	39.264	ng	100
17) 2-Methylphenol	8.522	107	1075913	40.566	ng	100
18) Hexachloroethane	9.169	117	447091	39.707	ng	100
19) n-Nitroso-di-n-propyla...	8.916	70	952166	40.107	ng	100
20) 3+4-Methylphenols	8.858	107	1471753	40.859	ng	100
22) Acetophenone	8.940	105	1855317	40.077	ng	100
24) Nitrobenzene	9.334	77	1350491	40.143	ng	100
25) Isophorone	9.846	82	2680233	40.531	ng	100
26) 2-Nitrophenol	10.040	139	559305	39.187	ng	100
27) 2,4-Dimethylphenol	10.069	122	1199890	40.558	ng	100
28) bis(2-Chloroethoxy)met...	10.334	93	1625384	40.127	ng	100
29) 2,4-Dichlorophenol	10.557	162	1166540	42.133	ng	100
30) 1,2,4-Trichlorobenzene	10.775	180	1236131	41.220	ng	100
31) Naphthalene	10.981	128	3858745	40.234	ng	100
32) Benzoic acid	10.193	122	720655	38.552	ng	100
33) 4-Chloroaniline	11.099	127	1762879	40.749	ng	100
34) Hexachlorobutadiene	11.216	225	747734	42.115	ng	100
35) Caprolactam	11.910	113	417901	41.298	ng	100
36) 4-Chloro-3-methylphenol	12.187	107	1269714	41.257	ng	100
37) 2-Methylnaphthalene	12.575	142	2844832	40.831	ng	100
38) 1-Methylnaphthalene	12.793	142	2663390	40.774	ng	100
40) 1,2,4,5-Tetrachloroben...	12.916	216	1454226	41.558	ng	100
41) Hexachlorocyclopentadiene	12.875	237	766935	43.639	ng	100
43) 2,4,6-Trichlorophenol	13.163	196	961448	42.822	ng	100

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP072723\
Data File : BP016397.D
Acq On : 27 Jul 2023 13:20
Operator : MA/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Quant Time: Jul 27 17:36:06 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP072723.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jul 27 17:32:49 2023
Response via : Initial Calibration

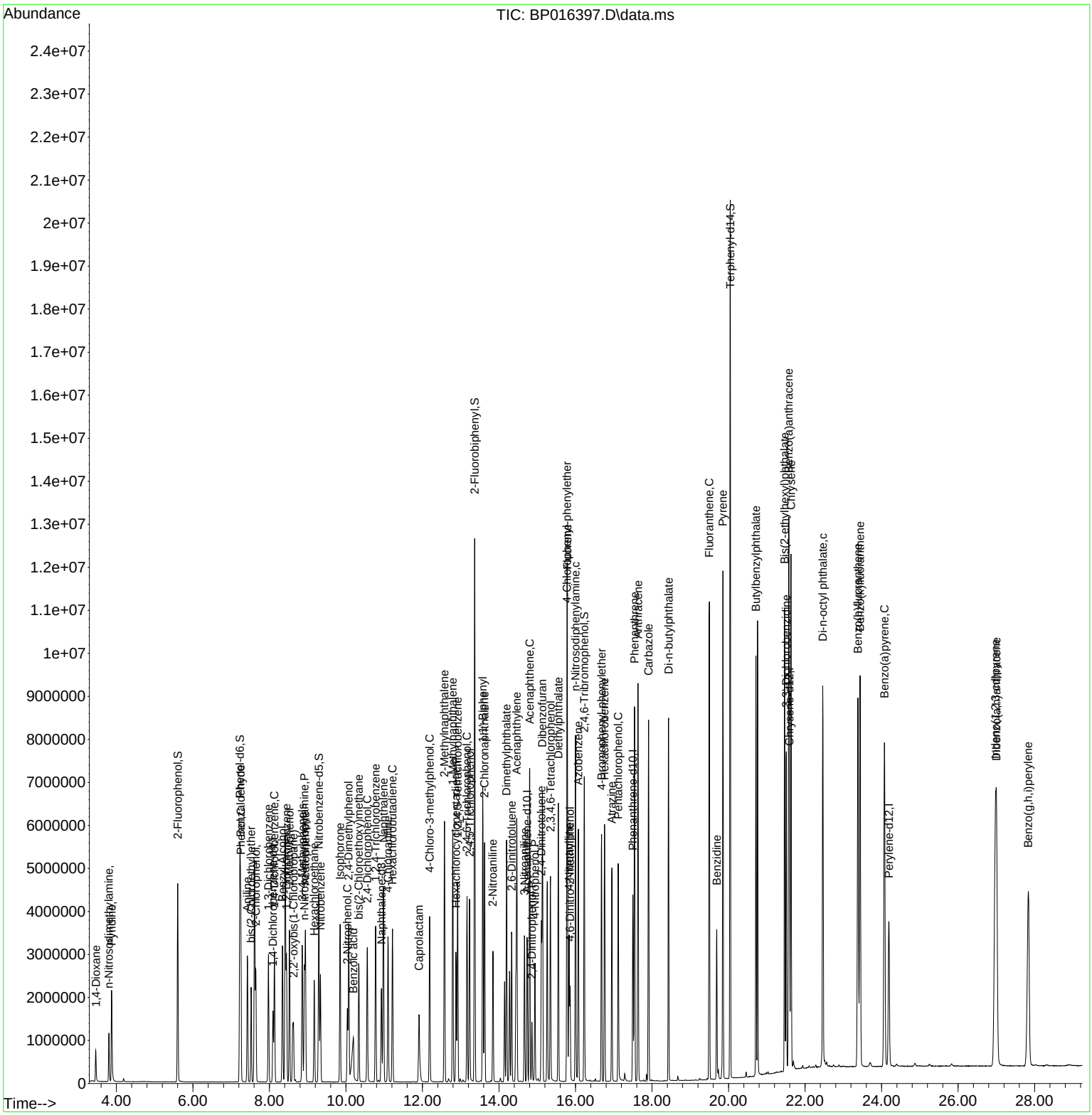
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	13.234	196	1153726	42.354	ng	100
46) 1,1'-Biphenyl	13.575	154	3542335	40.357	ng	100
47) 2-Chloronaphthalene	13.622	162	2683222	40.519	ng	100
48) 2-Nitroaniline	13.840	65	777713	41.664	ng	100
49) Acenaphthylene	14.463	152	4457033	40.565	ng	100
50) Dimethylphthalate	14.198	163	3607775	40.207	ng	100
51) 2,6-Dinitrotoluene	14.334	165	772239	42.009	ng	100
52) Acenaphthene	14.804	154	2651274	40.578	ng	100
53) 3-Nitroaniline	14.669	138	860827	41.421	ng	100
54) 2,4-Dinitrophenol	14.863	184	280868	37.395	ng	100
55) Dibenzofuran	15.134	168	4323113	40.344	ng	100
56) 4-Nitrophenol	14.940	139	681700	41.904	ng	100
57) 2,4-Dinitrotoluene	15.110	165	1036257	43.255	ng	100
58) Fluorene	15.787	166	3441508	40.880	ng	100
59) 2,3,4,6-Tetrachlorophenol	15.345	232	959566	42.823	ng	100
60) Diethylphthalate	15.551	149	3602654	40.401	ng	100
61) 4-Chlorophenyl-phenyle...	15.775	204	1761696	41.469	ng	100
62) 4-Nitroaniline	15.834	138	864693	41.925	ng	100
63) Azobenzene	16.075	77	3306003	39.264	ng	100
65) 4,6-Dinitro-2-methylph...	15.857	198	447824	38.617	ng	100
66) n-Nitrosodiphenylamine	15.998	169	3071081	40.532	ng	100
67) 4-Bromophenyl-phenylether	16.681	248	1153236	42.362	ng	100
68) Hexachlorobenzene	16.757	284	1287286	42.402	ng	100
69) Atrazine	16.951	200	932227	41.370	ng	100
70) Pentachlorophenol	17.116	266	883516	42.054	ng	100
71) Phenanthrene	17.545	178	5491912	40.228	ng	100
72) Anthracene	17.634	178	5596746	40.770	ng	100
73) Carbazole	17.910	167	5194493	40.361	ng	100
74) Di-n-butylphthalate	18.434	149	6167689	41.422	ng	100
75) Fluoranthene	19.498	202	6621225	41.379	ng	100
77) Benzidine	19.692	184	1915587	43.933	ng	100
78) Pyrene	19.851	202	6857594	40.677	ng	100
80) Butylbenzylphthalate	20.716	149	2736249	41.314	ng	100
81) Benzo(a)anthracene	21.575	228	6880536	40.777	ng	100
82) 3,3'-Dichlorobenzidine	21.510	252	2363533	42.670	ng	100
83) Chrysene	21.633	228	6516439	40.442	ng	100
84) Bis(2-ethylhexyl)phtha...	21.463	149	4078277	41.014	ng	100
85) Di-n-octyl phthalate	22.463	149	6847092	40.943	ng	100
87) Indeno(1,2,3-cd)pyrene	26.974	276	7628159	40.047	ng	100
88) Benzo(b)fluoranthene	23.380	252	6865469	41.923	ng	100
89) Benzo(k)fluoranthene	23.439	252	6903342	41.446	ng	100
90) Benzo(a)pyrene	24.074	252	6595575	41.577	ng	100
91) Dibenzo(a,h)anthracene	27.004	278	6414955	40.383	ng	100
92) Benzo(g,h,i)perylene	27.833	276	6067960	39.639	ng	100

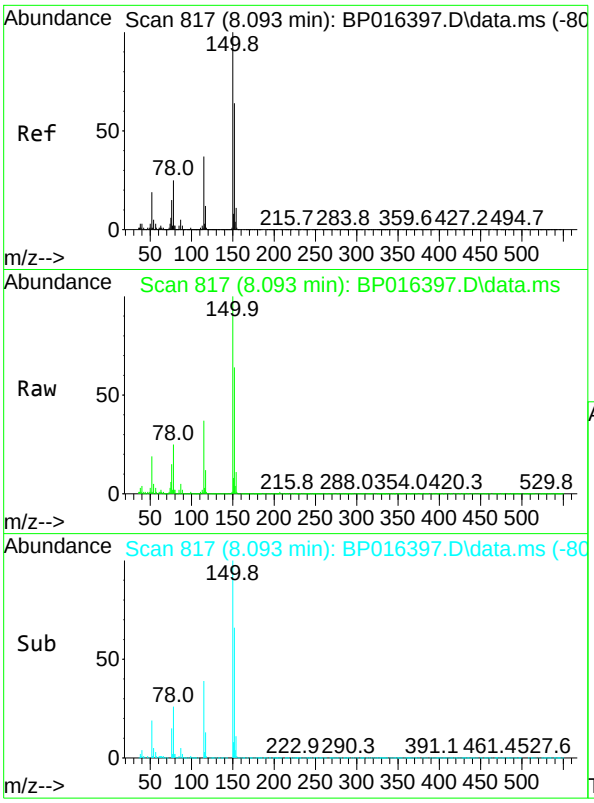
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP072723\
Data File : BP016397.D
Acq On : 27 Jul 2023 13:20
Operator : MA/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Quant Time: Jul 27 17:36:06 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP072723.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jul 27 17:32:49 2023
Response via : Initial Calibration



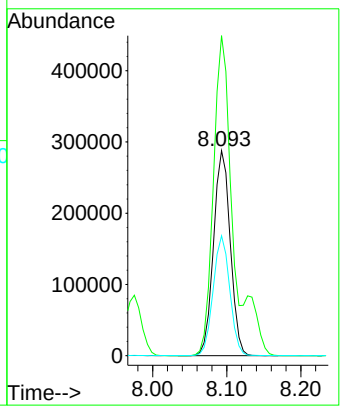


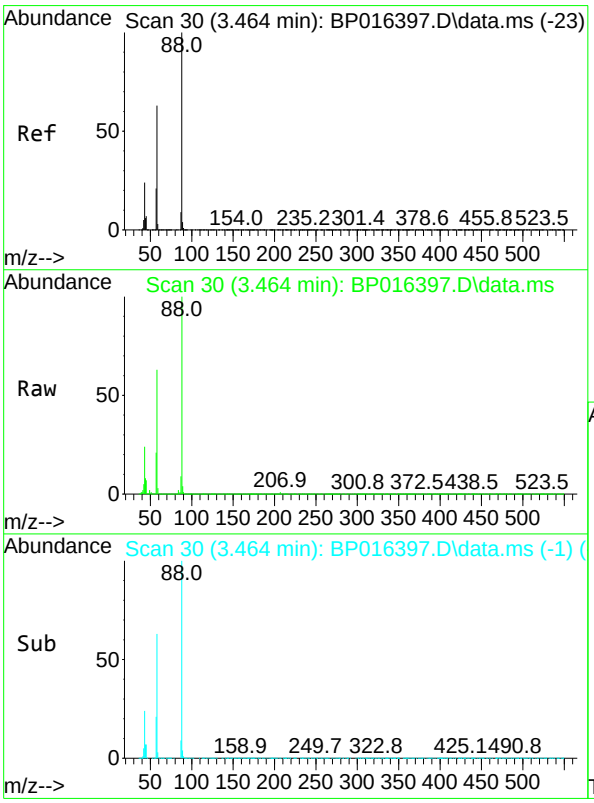
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.093 min Scan# 81
Delta R.T. -0.000 min
Lab File: BP016397.D
Acq: 27 Jul 2023 13:20

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:152 Resp: 451043

Ion	Ratio	Lower	Upper
152	100		
150	156.1	124.9	187.3
115	58.5	46.8	70.2

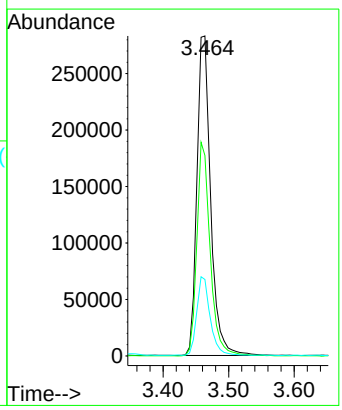


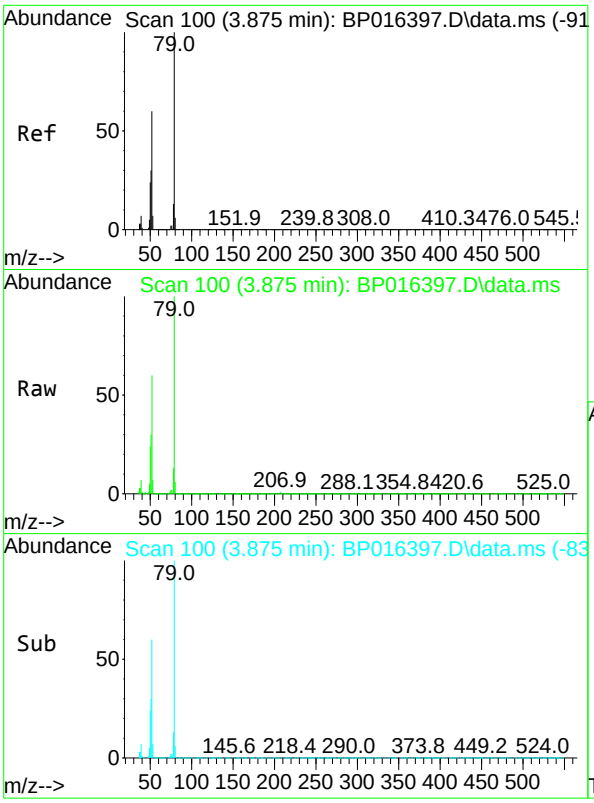


#2
1,4-Dioxane
Concen: 38.383 ng
RT: 3.464 min Scan# 30
Delta R.T. 0.000 min
Lab File: BP016397.D
Acq: 27 Jul 2023 13:20

Tgt Ion: 88 Resp: 413883

Ion	Ratio	Lower	Upper
88	100		
58	64.6	51.7	77.5
43	24.0	19.2	28.8



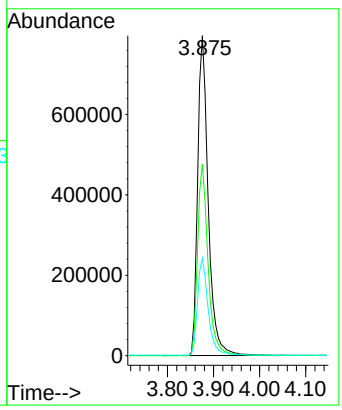


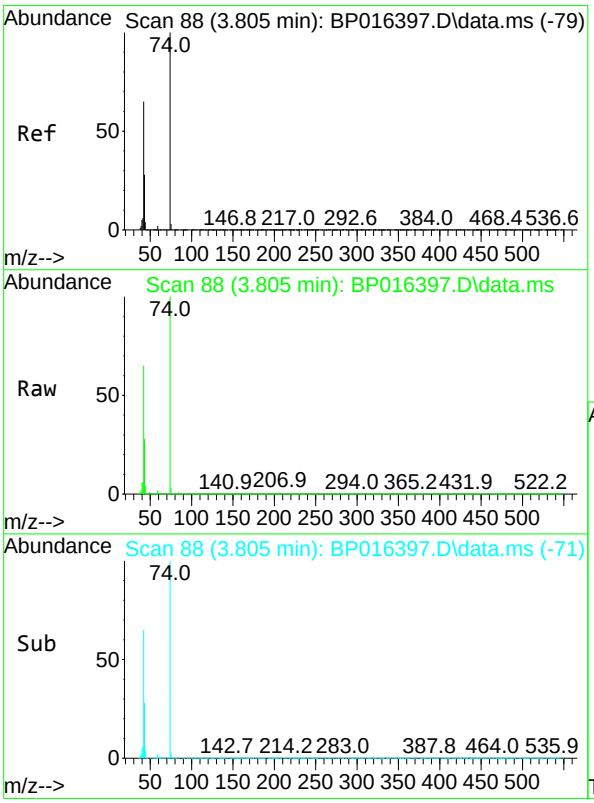
#3
Pyridine
Concen: 39.999 ng
RT: 3.875 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP016397.D
Acq: 27 Jul 2023 13:20

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion: 79 Resp: 1269033

Ion	Ratio	Lower	Upper
79	100		
52	59.9	47.9	71.9
51	30.5	24.4	36.6

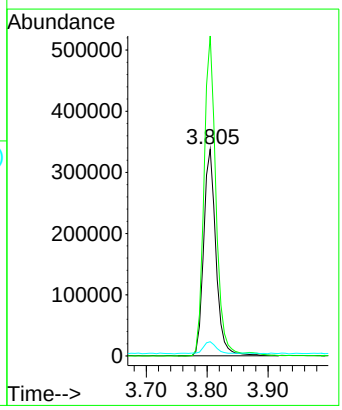


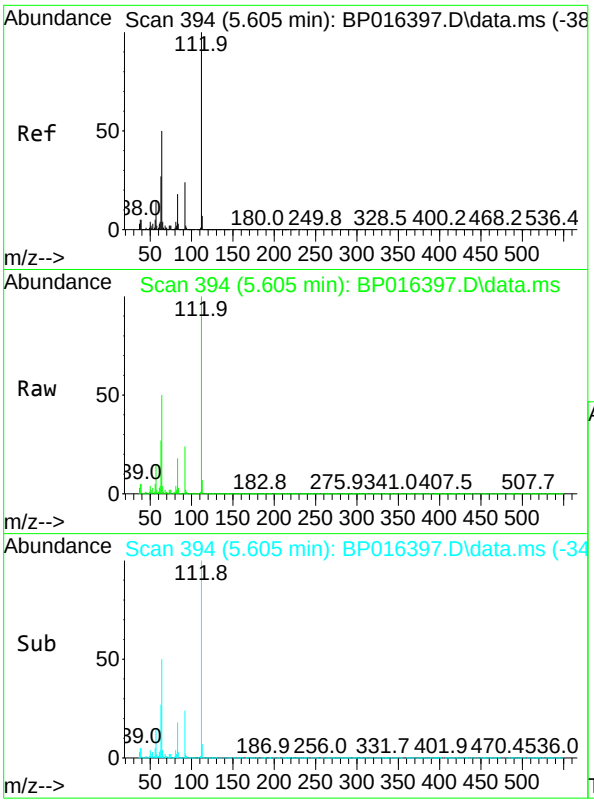


#4
n-Nitrosodimethylamine
Concen: 38.871 ng
RT: 3.805 min Scan# 88
Delta R.T. 0.000 min
Lab File: BP016397.D
Acq: 27 Jul 2023 13:20

Tgt Ion: 42 Resp: 472382

Ion	Ratio	Lower	Upper
42	100		
74	154.8	123.8	185.8
44	6.9	5.5	8.3



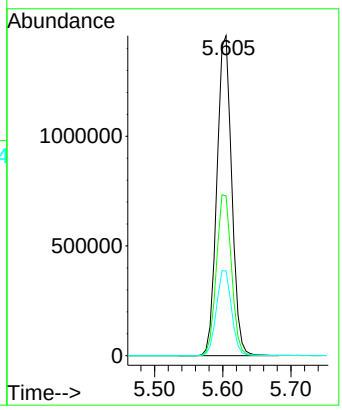


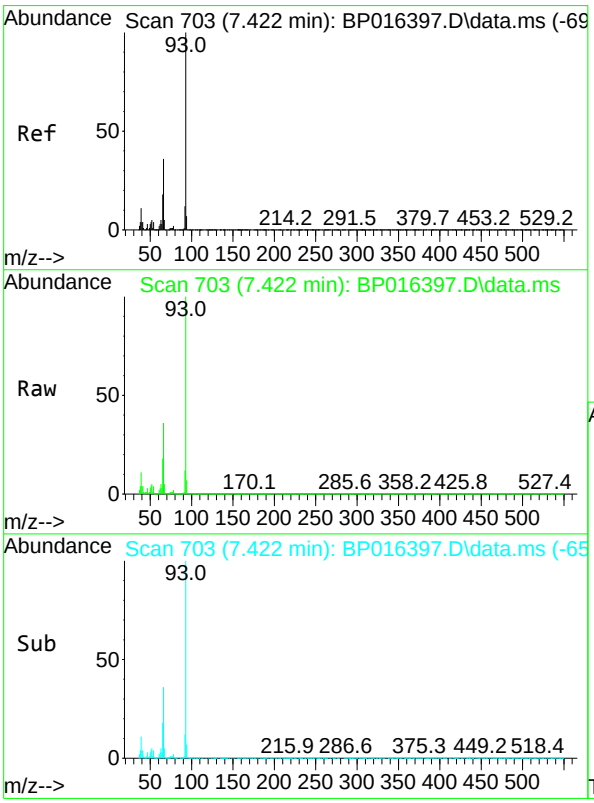
#5
2-Fluorophenol
Concen: 79.703 ng
RT: 5.605 min Scan# 3
Delta R.T. 0.000 min
Lab File: BP016397.D
Acq: 27 Jul 2023 13:20

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:112 Resp: 2203565

Ion	Ratio	Lower	Upper
112	100		
64	50.0	40.0	60.0
63	26.5	21.2	31.8

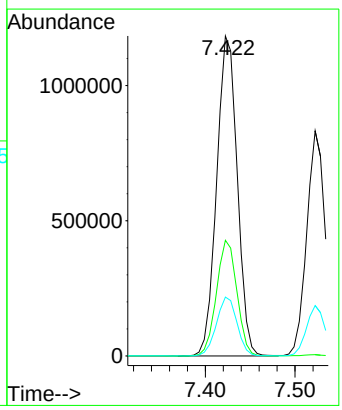


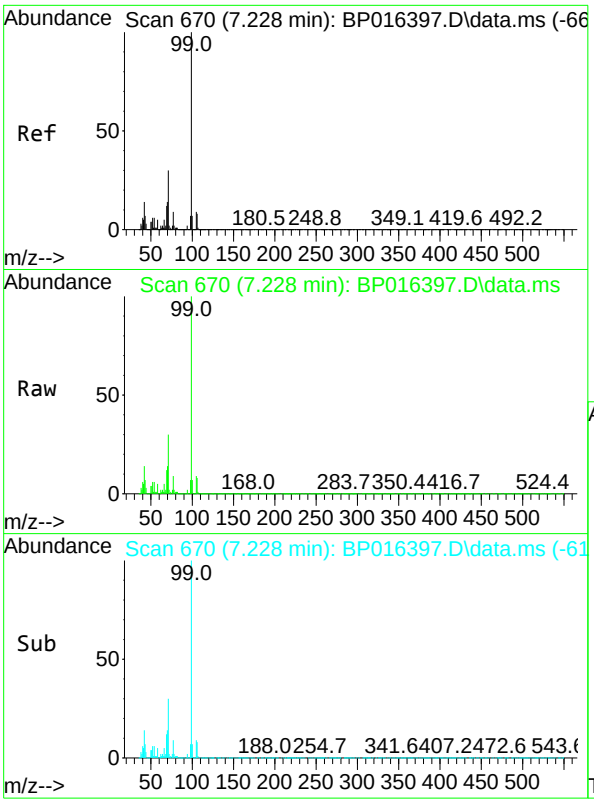


#6
Aniline
Concen: 40.290 ng
RT: 7.422 min Scan# 703
Delta R.T. 0.000 min
Lab File: BP016397.D
Acq: 27 Jul 2023 13:20

Tgt Ion: 93 Resp: 1885875

Ion	Ratio	Lower	Upper
93	100		
66	36.1	28.9	43.3
65	18.4	14.7	22.1



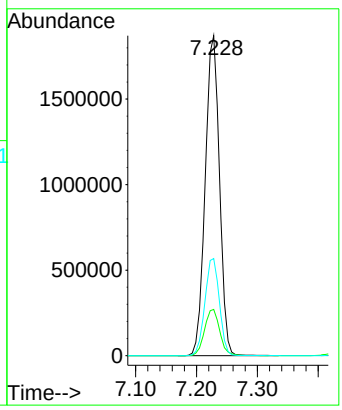


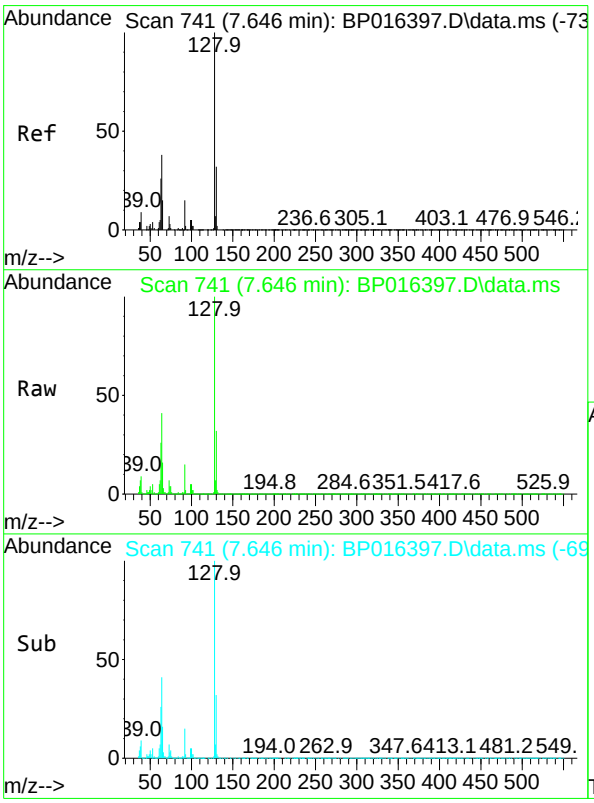
#7
Phenol-d6
Concen: 80.439 ng
RT: 7.228 min Scan# 6
Delta R.T. 0.000 min
Lab File: BP016397.D
Acq: 27 Jul 2023 13:20

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion: 99 Resp: 3048278

Ion	Ratio	Lower	Upper
99	100		
42	14.5	11.6	17.4
71	30.4	24.3	36.5

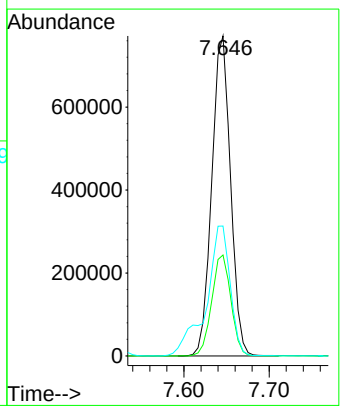


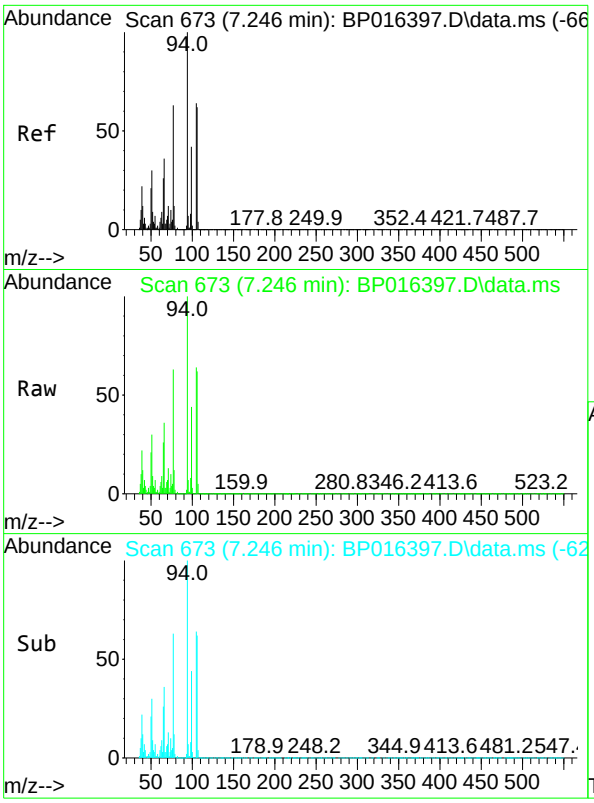


#8
2-Chlorophenol
Concen: 40.661 ng
RT: 7.646 min Scan# 741
Delta R.T. 0.000 min
Lab File: BP016397.D
Acq: 27 Jul 2023 13:20

Tgt Ion:128 Resp: 1178680

Ion	Ratio	Lower	Upper
128	100		
130	31.6	11.6	51.6
64	40.6	20.6	60.6



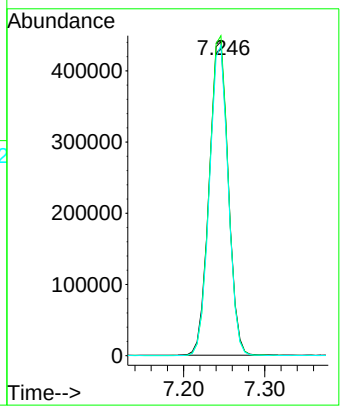


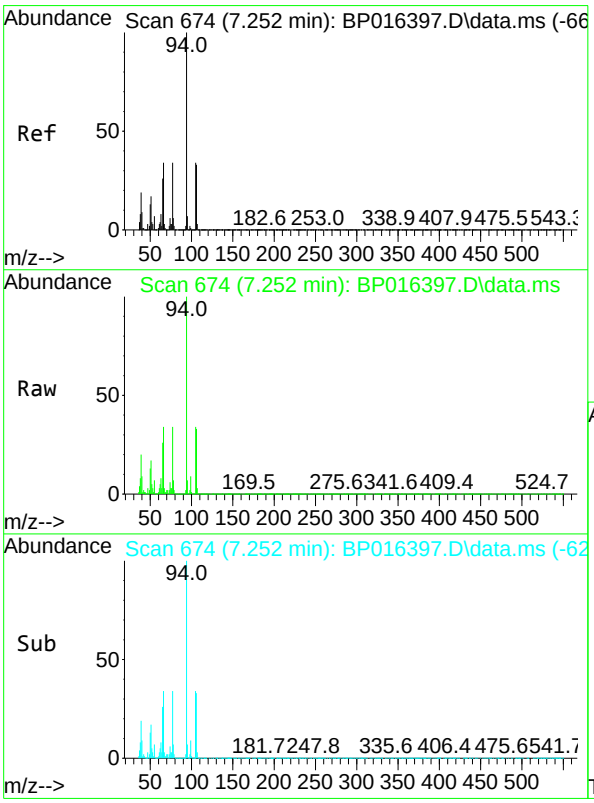
#9
Benzaldehyde
Concen: 41.035 ng
RT: 7.246 min Scan# 6
Delta R.T. -0.000 min
Lab File: BP016397.D
Acq: 27 Jul 2023 13:20

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion: 77 Resp: 721533

Ion	Ratio	Lower	Upper
77	100		
105	101.9	81.9	121.9
106	98.8	78.8	118.8

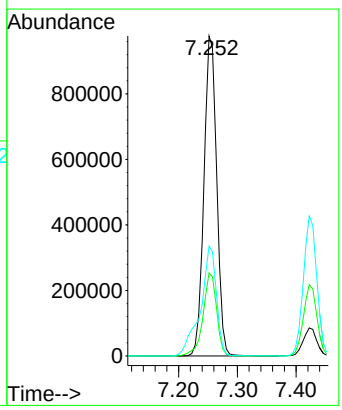


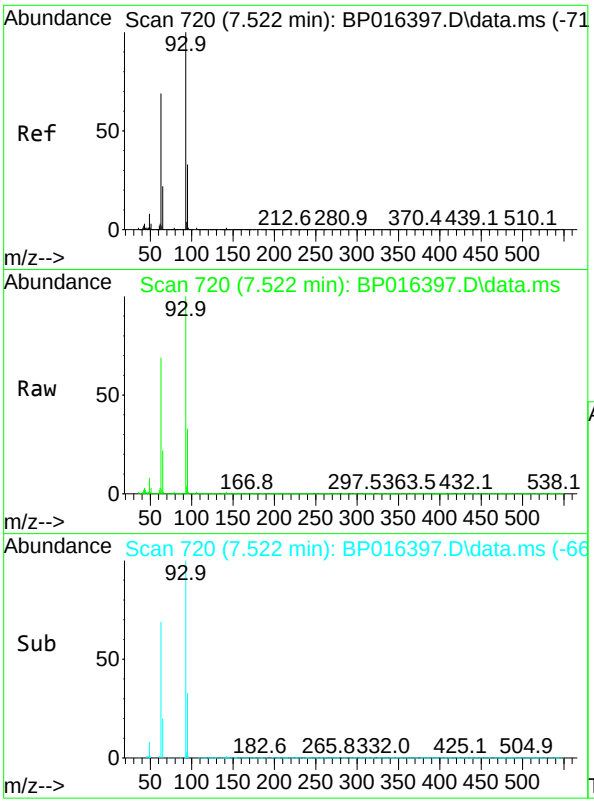


#10
Phenol
Concen: 40.033 ng
RT: 7.252 min Scan# 674
Delta R.T. 0.000 min
Lab File: BP016397.D
Acq: 27 Jul 2023 13:20

Tgt Ion: 94 Resp: 1473275

Ion	Ratio	Lower	Upper
94	100		
65	25.9	5.9	45.9
66	34.3	14.3	54.3



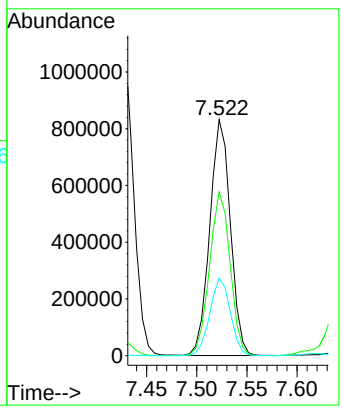


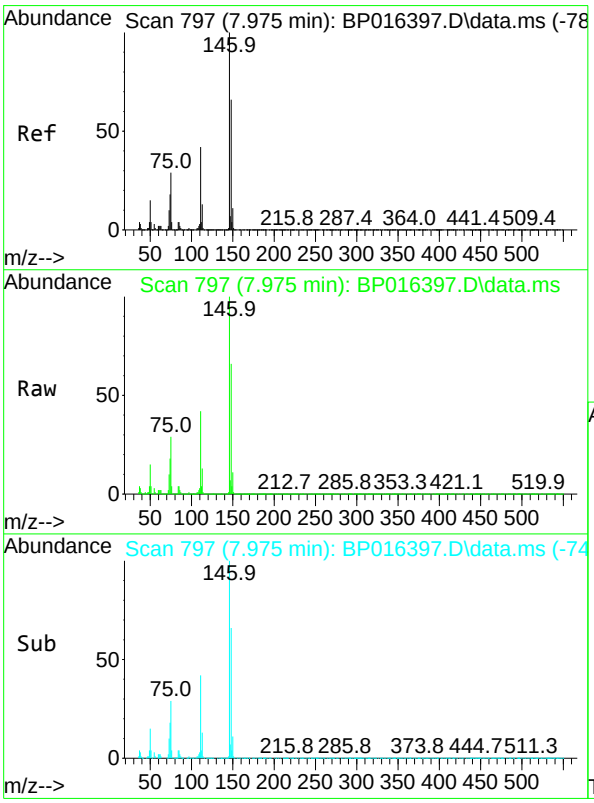
#11
bis(2-Chloroethyl)ether
Concen: 39.734 ng
RT: 7.522 min Scan# 7
Delta R.T. 0.000 min
Lab File: BP016397.D
Acq: 27 Jul 2023 13:20

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion: 93 Resp: 1188648

Ion	Ratio	Lower	Upper
93	100		
63	69.4	49.4	89.4
95	32.9	12.9	52.9

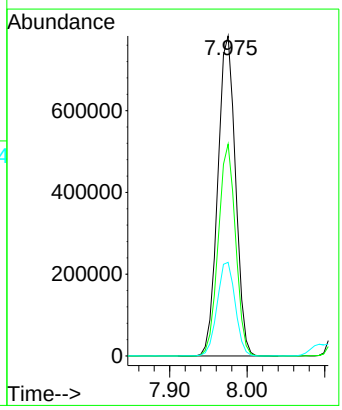


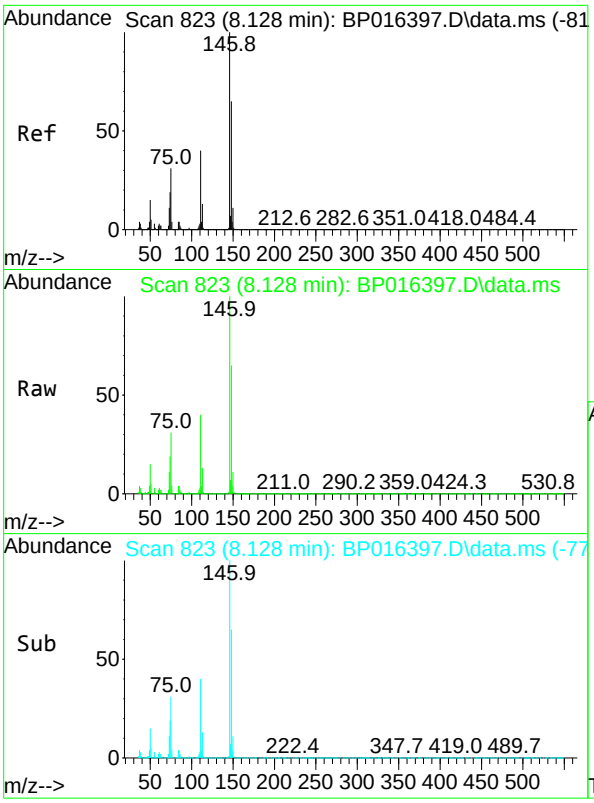


#12
1,3-Dichlorobenzene
Concen: 39.865 ng
RT: 7.975 min Scan# 797
Delta R.T. 0.000 min
Lab File: BP016397.D
Acq: 27 Jul 2023 13:20

Tgt Ion:146 Resp: 1240579

Ion	Ratio	Lower	Upper
146	100		
148	66.2	53.0	79.4
75	29.3	23.4	35.2



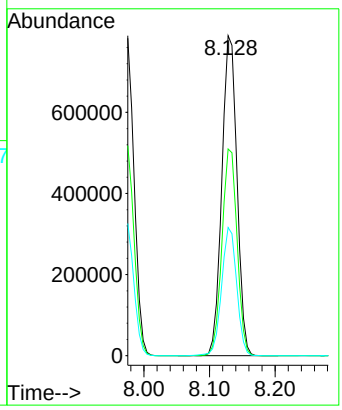


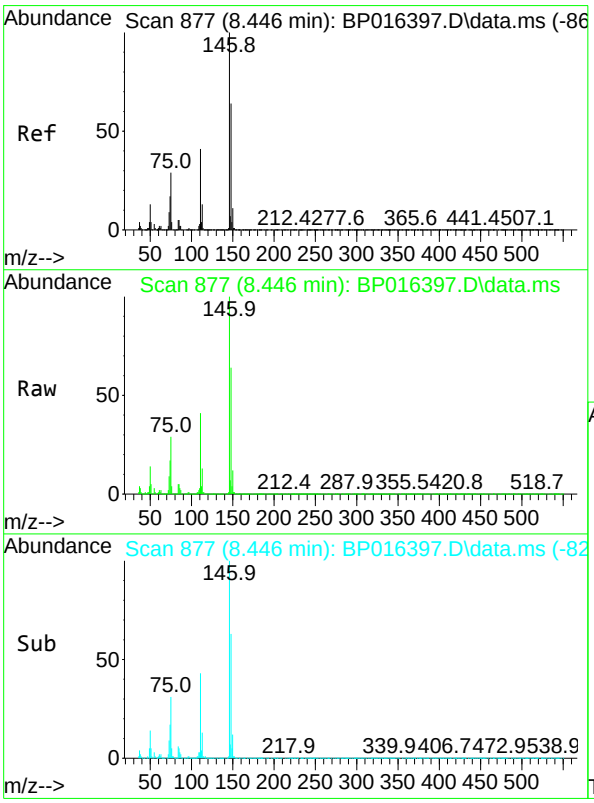
#13
1,4-Dichlorobenzene
Concen: 39.858 ng
RT: 8.128 min Scan# 8
Delta R.T. 0.000 min
Lab File: BP016397.D
Acq: 27 Jul 2023 13:20

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:146 Resp: 1258217

Ion	Ratio	Lower	Upper
146	100		
148	64.6	51.7	77.5
111	40.0	32.0	48.0

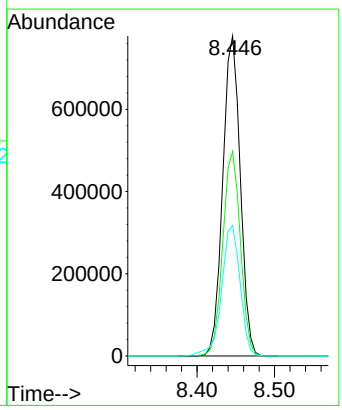


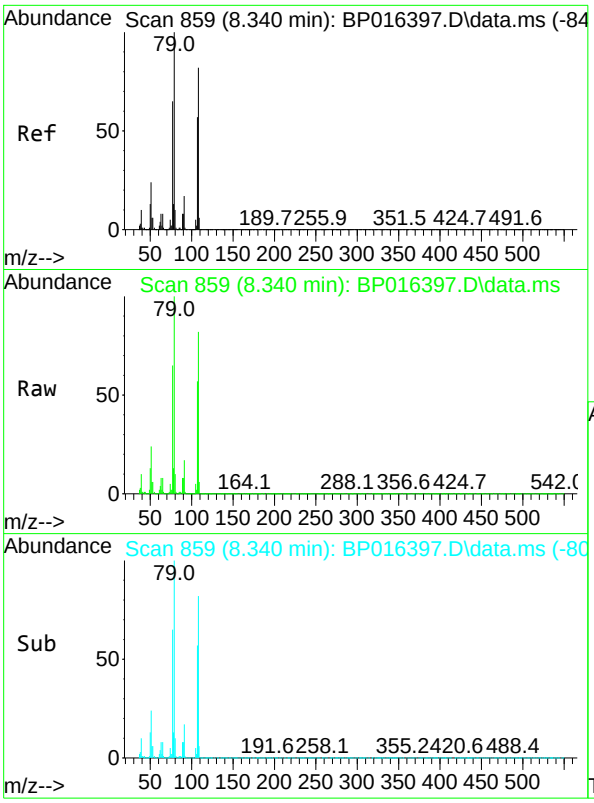


#14
1,2-Dichlorobenzene
Concen: 40.223 ng
RT: 8.446 min Scan# 877
Delta R.T. 0.000 min
Lab File: BP016397.D
Acq: 27 Jul 2023 13:20

Tgt Ion:146 Resp: 1222529

Ion	Ratio	Lower	Upper
146	100		
148	63.8	51.0	76.6
111	40.8	32.6	49.0



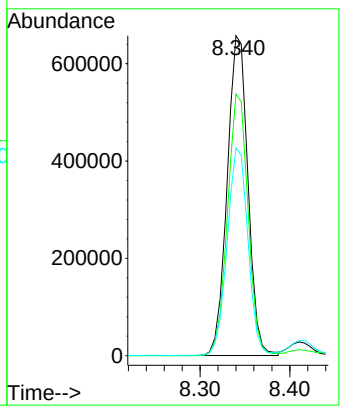


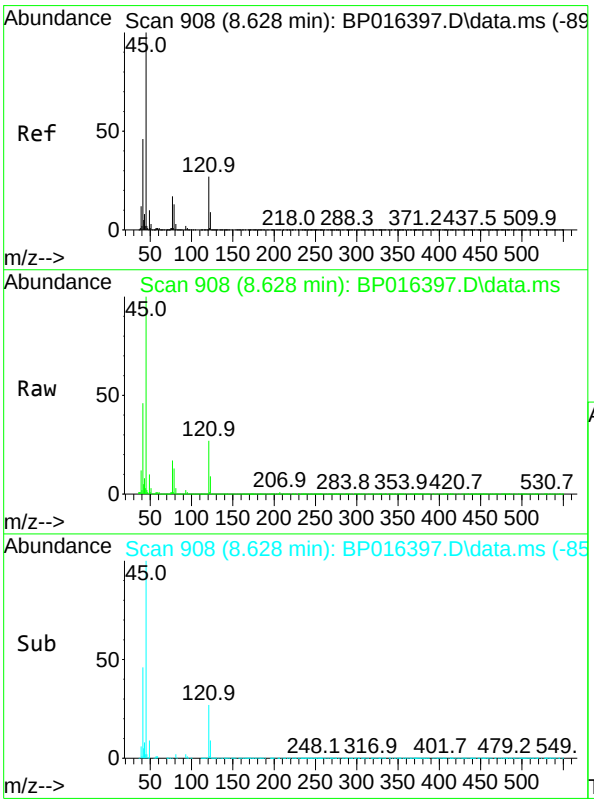
#15
Benzyl Alcohol
Concen: 40.760 ng
RT: 8.340 min Scan# 8
Delta R.T. 0.000 min
Lab File: BP016397.D
Acq: 27 Jul 2023 13:20

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion: 79 Resp: 1055274

Ion	Ratio	Lower	Upper
79	100		
108	81.8	65.4	98.2
77	64.8	51.8	77.8

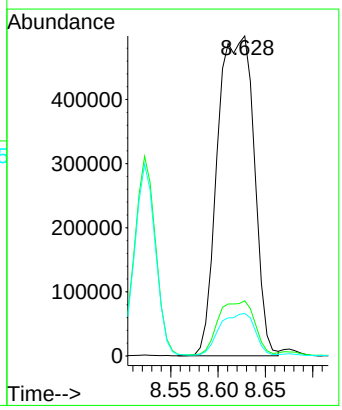


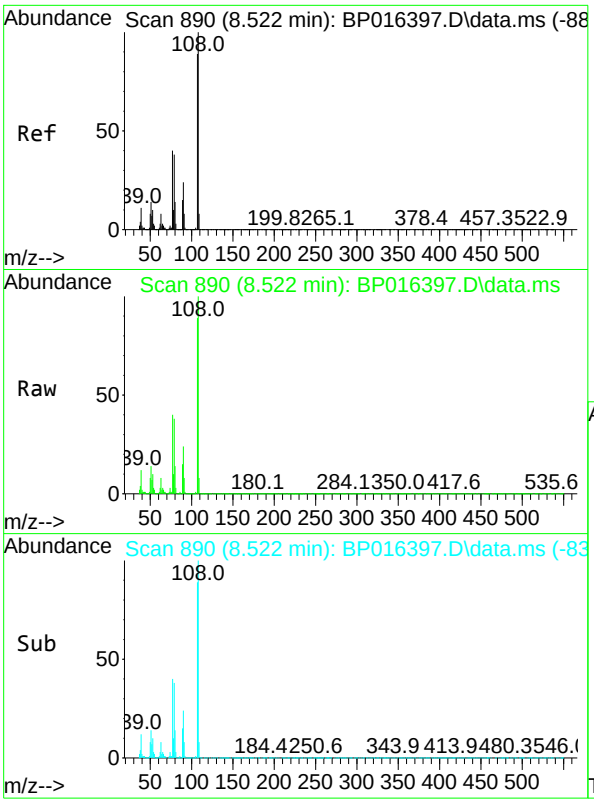


#16
2,2'-oxybis(1-Chloropropane)
Concen: 39.264 ng
RT: 8.628 min Scan# 908
Delta R.T. 0.000 min
Lab File: BP016397.D
Acq: 27 Jul 2023 13:20

Tgt Ion: 45 Resp: 1332082

Ion	Ratio	Lower	Upper
45	100		
77	17.3	0.0	37.3
79	13.3	0.0	33.3



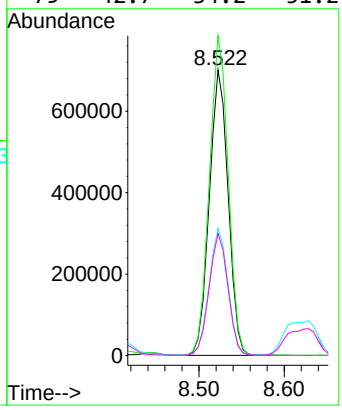


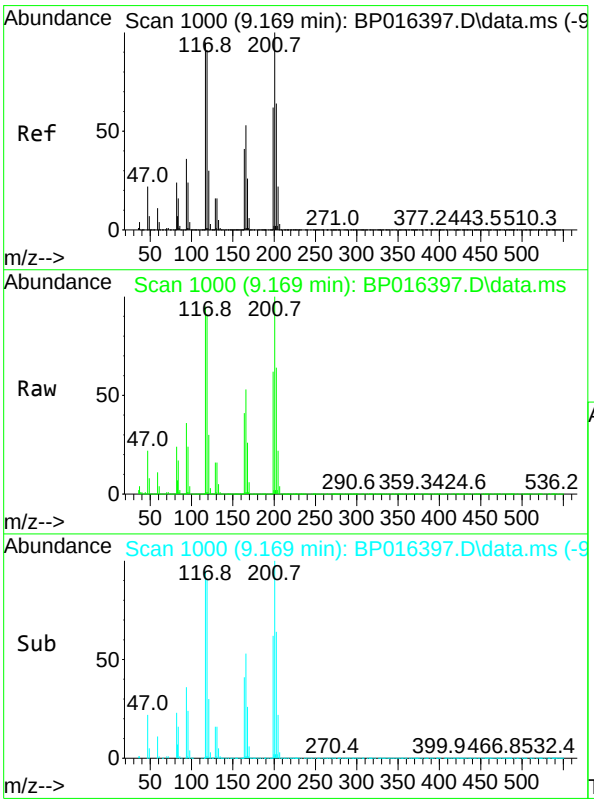
#17
2-Methylphenol
Concen: 40.566 ng
RT: 8.522 min Scan# 8
Delta R.T. 0.000 min
Lab File: BP016397.D
Acq: 27 Jul 2023 13:20

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:107 Resp: 1075913

Ion	Ratio	Lower	Upper
107	100		
108	112.0	89.6	134.4
77	44.5	35.6	53.4
79	42.7	34.2	51.2

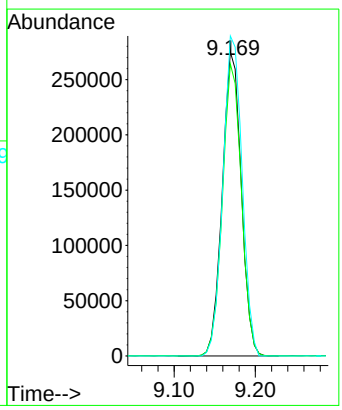


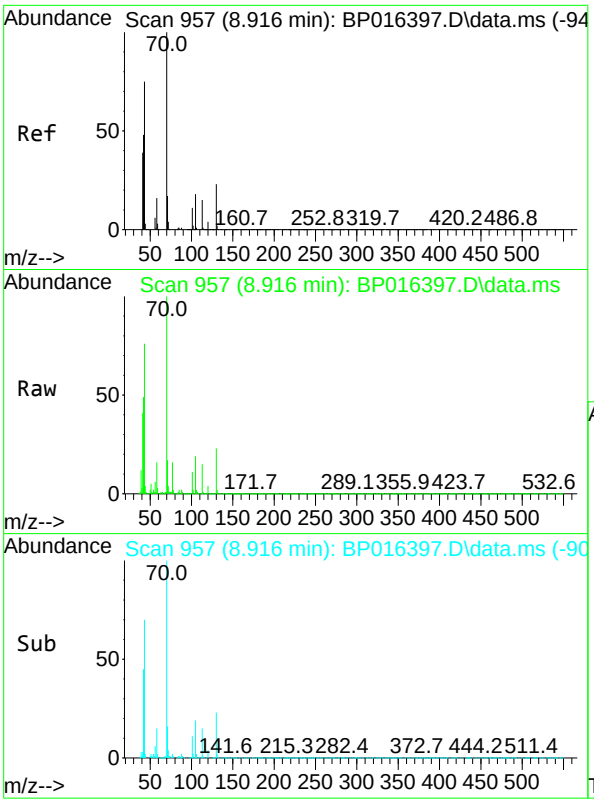


#18
Hexachloroethane
Concen: 39.707 ng
RT: 9.169 min Scan# 1000
Delta R.T. 0.000 min
Lab File: BP016397.D
Acq: 27 Jul 2023 13:20

Tgt Ion:117 Resp: 447091

Ion	Ratio	Lower	Upper
117	100		
119	96.1	76.9	115.3
201	107.8	86.2	129.4



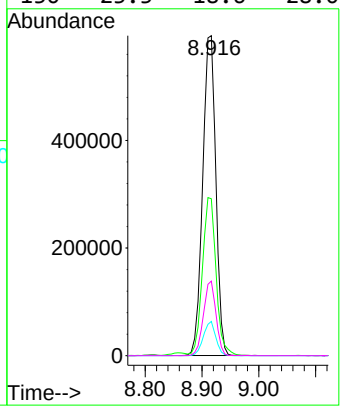


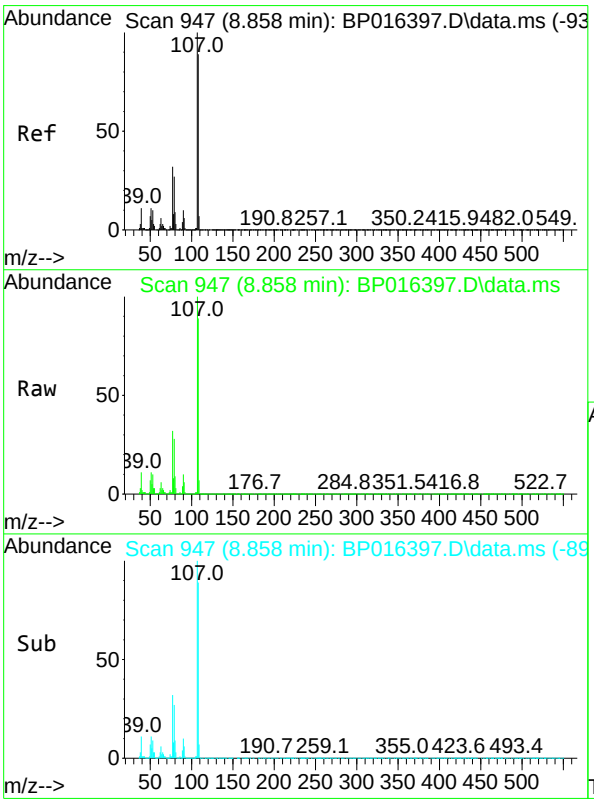
#19
n-Nitroso-di-n-propylamine
Concen: 40.107 ng
RT: 8.916 min Scan# 9
Delta R.T. 0.000 min
Lab File: BP016397.D
Acq: 27 Jul 2023 13:20

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion: 70 Resp: 952166

Ion	Ratio	Lower	Upper
70	100		
42	49.1	39.3	58.9
101	10.7	8.6	12.8
130	23.3	18.6	28.0

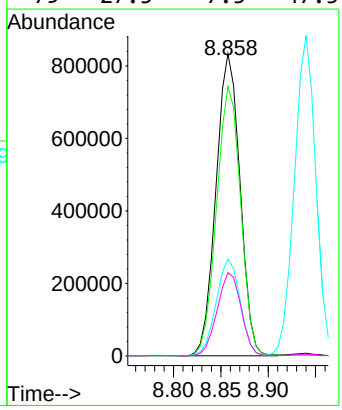


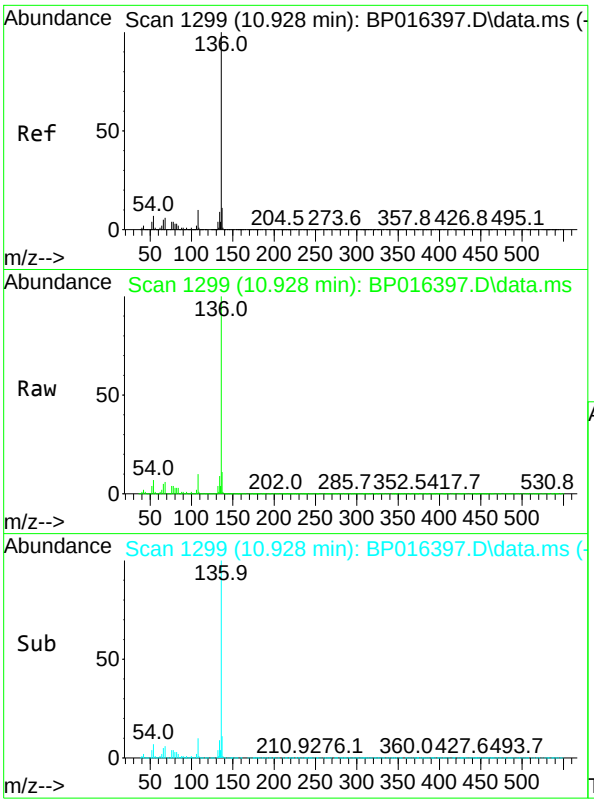


#20
3+4-Methylphenols
Concen: 40.859 ng
RT: 8.858 min Scan# 947
Delta R.T. 0.000 min
Lab File: BP016397.D
Acq: 27 Jul 2023 13:20

Tgt Ion:107 Resp: 1471753

Ion	Ratio	Lower	Upper
107	100		
108	89.1	69.1	109.1
77	32.0	12.0	52.0
79	27.5	7.5	47.5



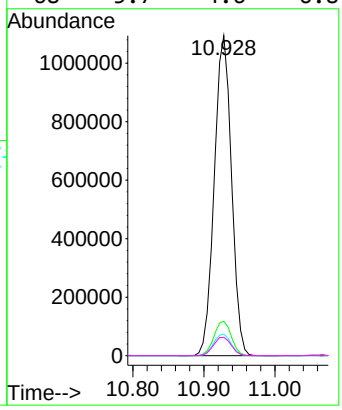


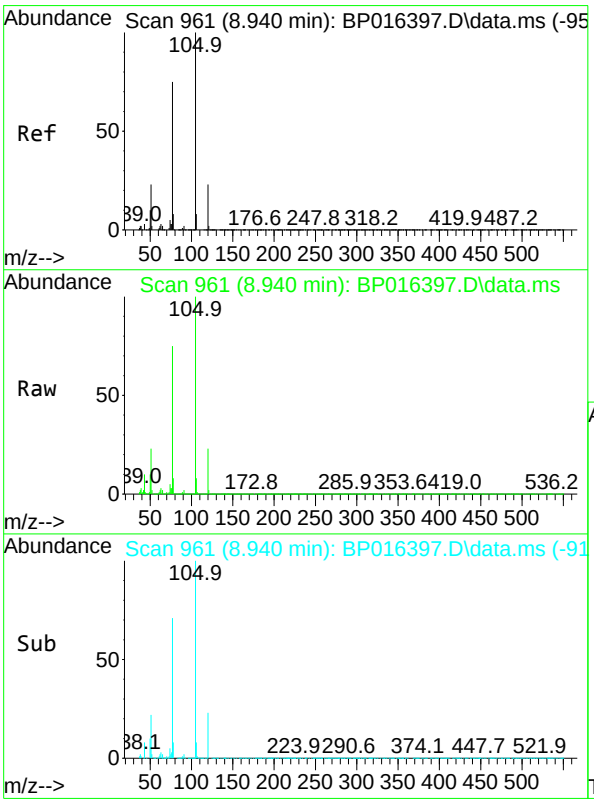
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.928 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP016397.D
Acq: 27 Jul 2023 13:20

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:136 Resp: 1833535

Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.6	13.0
54	7.0	5.6	8.4
68	5.7	4.6	6.8

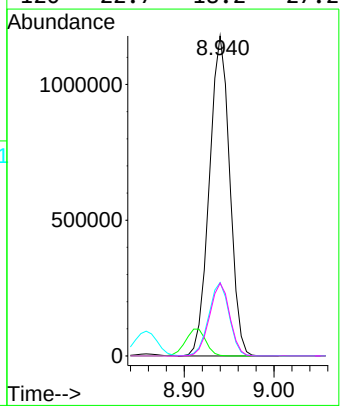


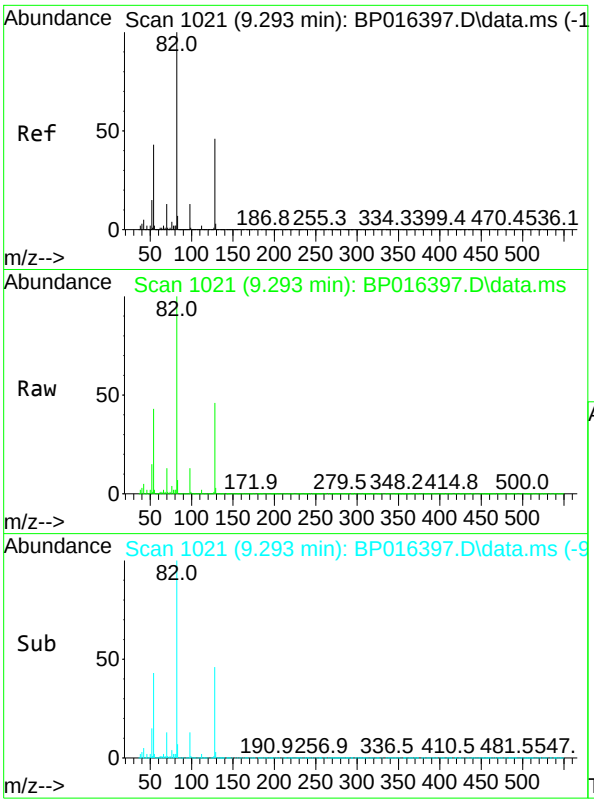


#22
Acetophenone
Concen: 40.077 ng
RT: 8.940 min Scan# 961
Delta R.T. 0.000 min
Lab File: BP016397.D
Acq: 27 Jul 2023 13:20

Tgt Ion:105 Resp: 1855317

Ion	Ratio	Lower	Upper
105	100		
71	0.2	0.2	0.2
51	22.9	18.3	27.5
120	22.7	18.2	27.2



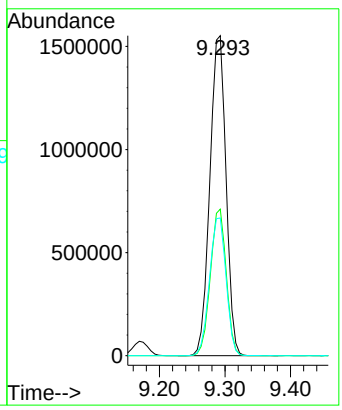


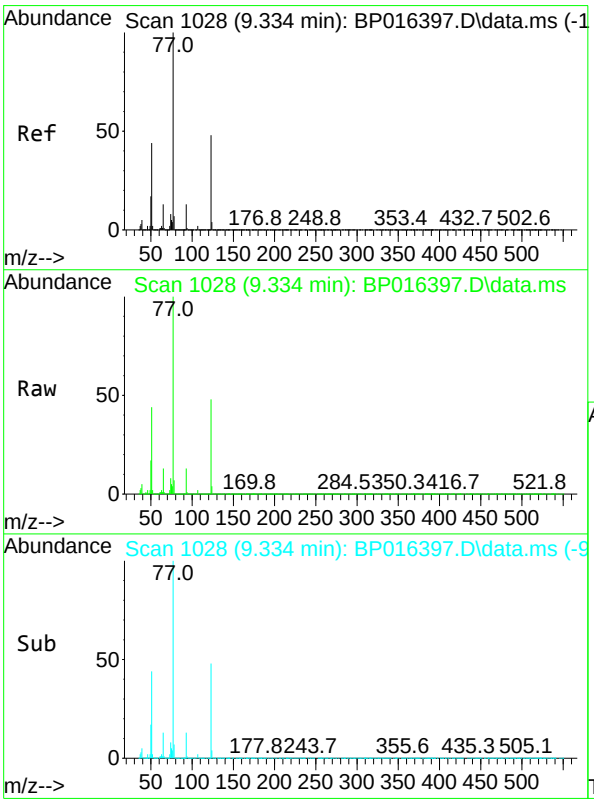
#23
Nitrobenzene-d5
Concen: 80.956 ng
RT: 9.293 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP016397.D
Acq: 27 Jul 2023 13:20

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion: 82 Resp: 2651658

Ion	Ratio	Lower	Upper
82	100		
128	45.8	36.6	55.0
54	43.1	34.5	51.7

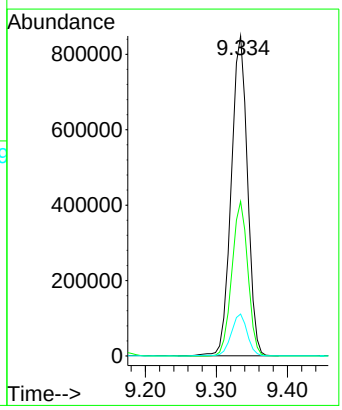


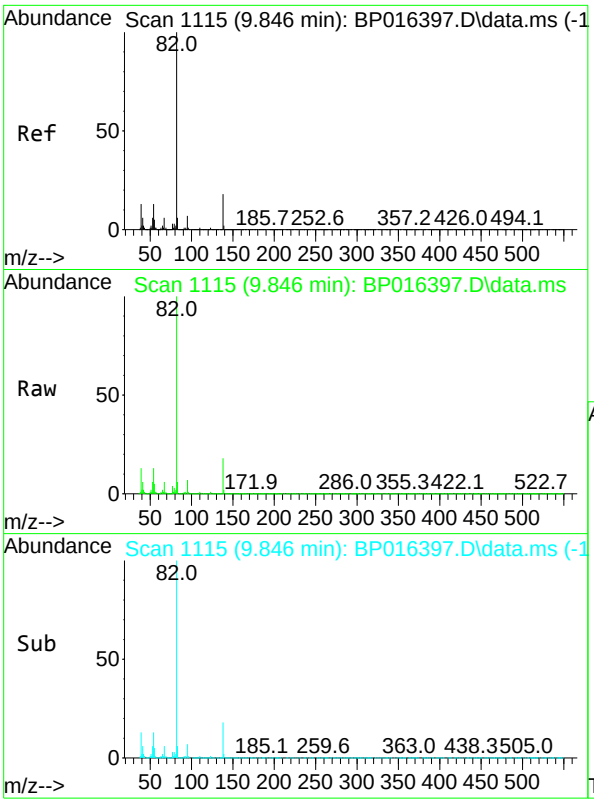


#24
Nitrobenzene
Concen: 40.143 ng
RT: 9.334 min Scan# 1028
Delta R.T. 0.000 min
Lab File: BP016397.D
Acq: 27 Jul 2023 13:20

Tgt Ion: 77 Resp: 1350491

Ion	Ratio	Lower	Upper
77	100		
123	48.3	38.6	58.0
65	13.1	10.5	15.7



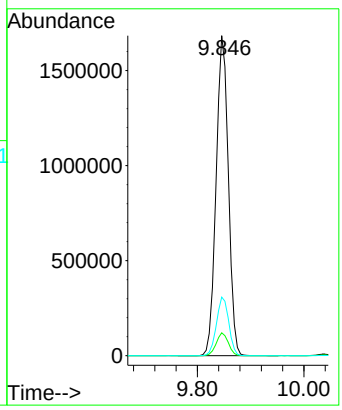


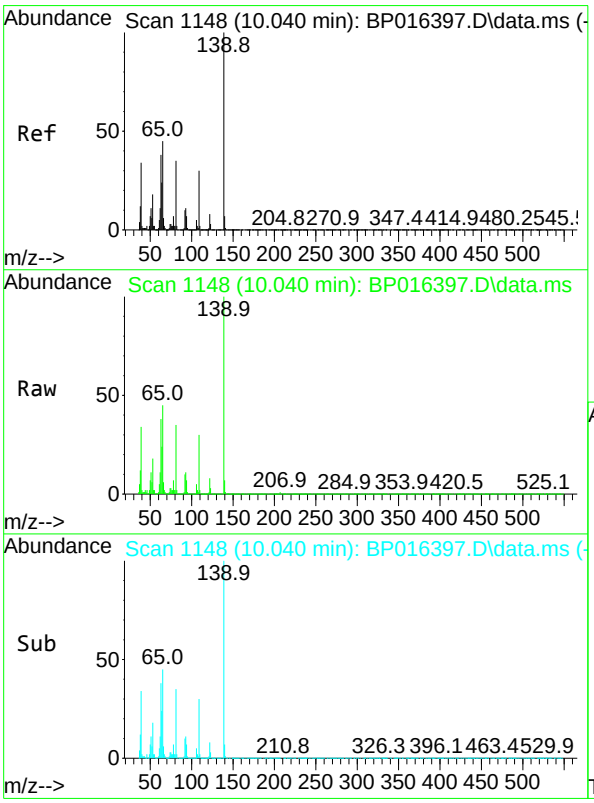
#25
Isophorone
Concen: 40.531 ng
RT: 9.846 min Scan# 11
Delta R.T. 0.000 min
Lab File: BP016397.D
Acq: 27 Jul 2023 13:20

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion: 82 Resp: 2680233

Ion	Ratio	Lower	Upper
82	100		
95	7.1	5.7	8.5
138	18.3	14.6	22.0

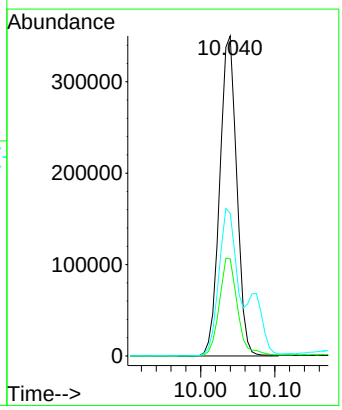


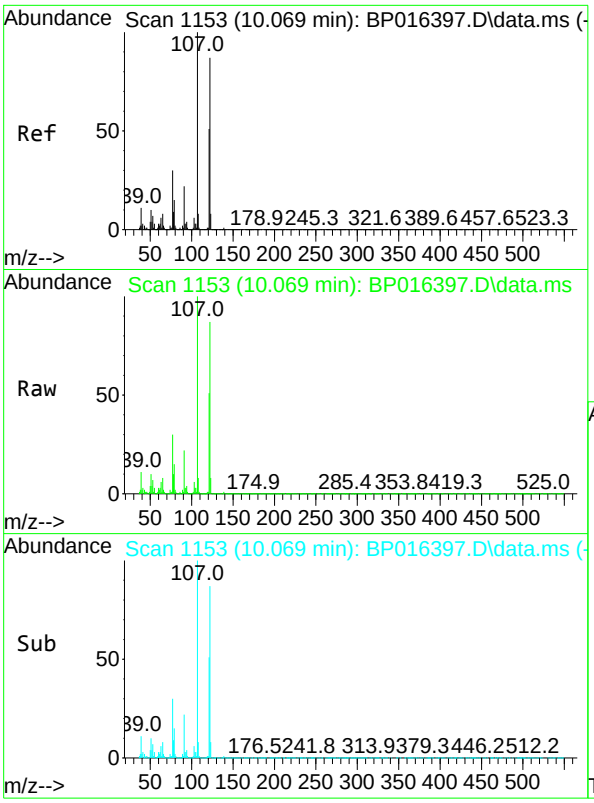


#26
2-Nitrophenol
Concen: 39.187 ng
RT: 10.040 min Scan# 1148
Delta R.T. -0.000 min
Lab File: BP016397.D
Acq: 27 Jul 2023 13:20

Tgt Ion:139 Resp: 559305

Ion	Ratio	Lower	Upper
139	100		
109	30.3	24.2	36.4
65	44.7	35.8	53.6



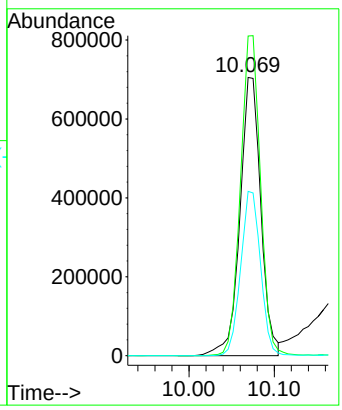


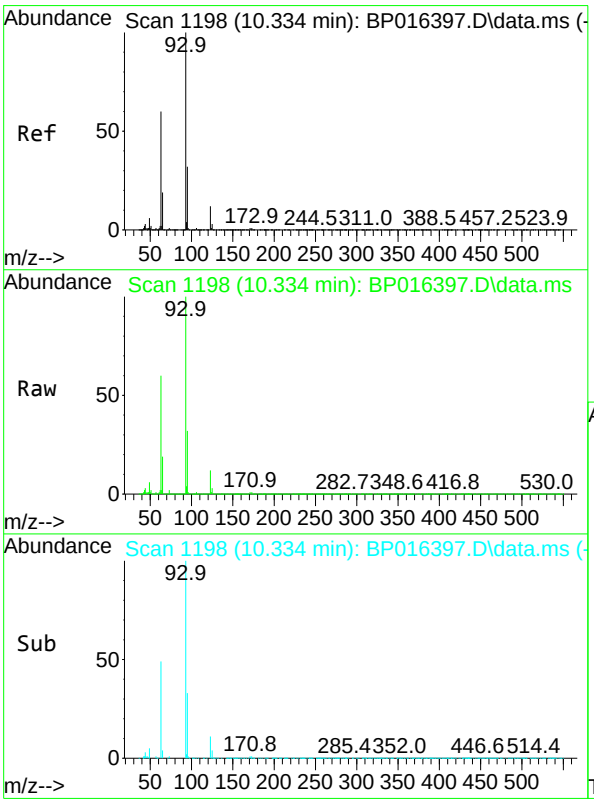
#27
2,4-Dimethylphenol
Concen: 40.558 ng
RT: 10.069 min Scan# 11
Delta R.T. 0.000 min
Lab File: BP016397.D
Acq: 27 Jul 2023 13:20

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:122 Resp: 1199890

Ion	Ratio	Lower	Upper
122	100		
107	114.9	91.9	137.9
121	59.0	47.2	70.8

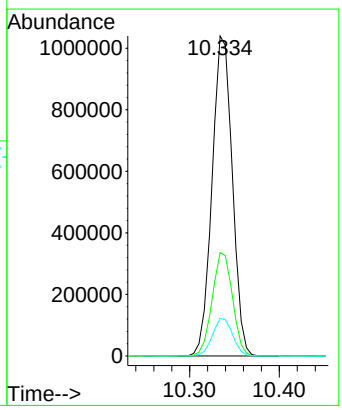


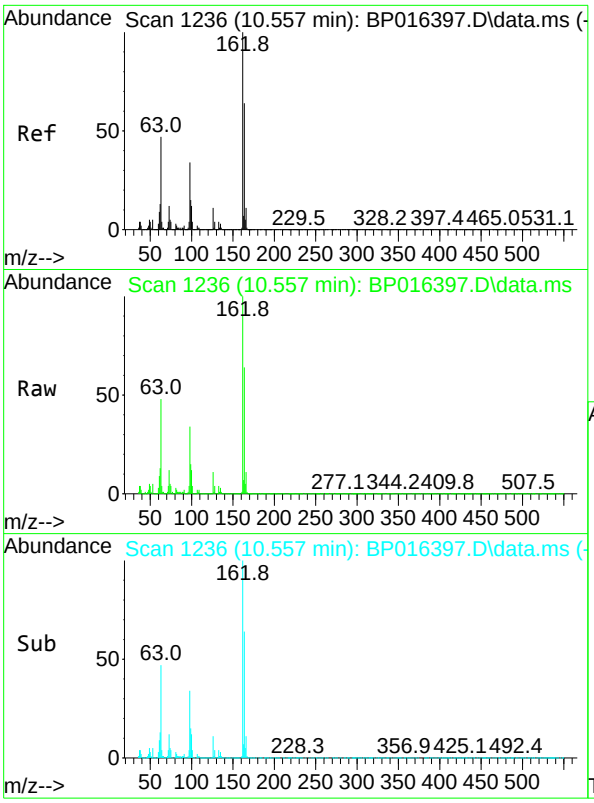


#28
bis(2-Chloroethoxy)methane
Concen: 40.127 ng
RT: 10.334 min Scan# 1198
Delta R.T. 0.000 min
Lab File: BP016397.D
Acq: 27 Jul 2023 13:20

Tgt Ion: 93 Resp: 1625384

Ion	Ratio	Lower	Upper
93	100		
95	32.3	25.8	38.8
123	11.7	9.4	14.0



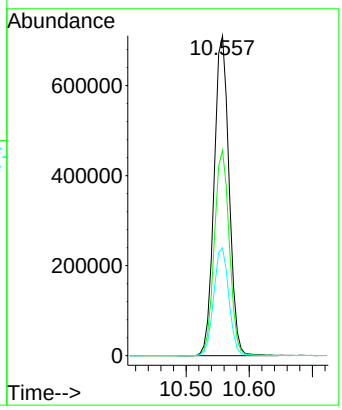


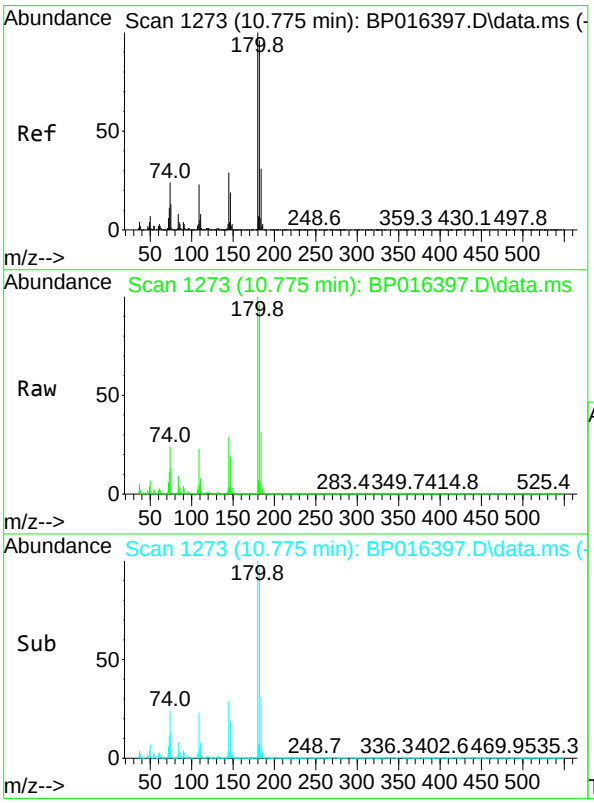
#29
2,4-Dichlorophenol
Concen: 42.133 ng
RT: 10.557 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP016397.D
Acq: 27 Jul 2023 13:20

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:162 Resp: 1166540

Ion	Ratio	Lower	Upper
162	100		
164	64.2	44.2	84.2
98	33.7	13.7	53.7

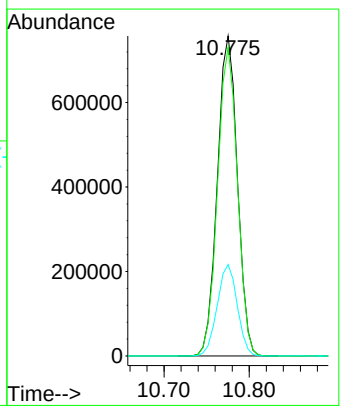


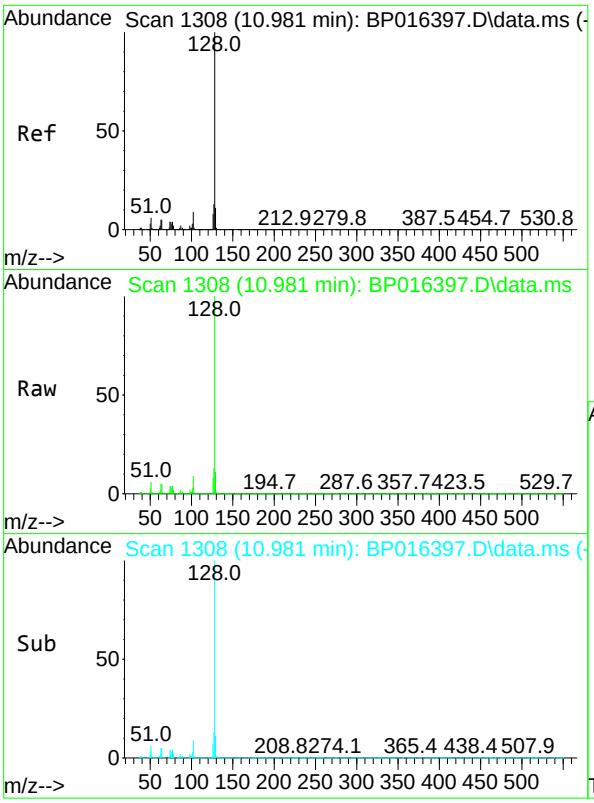


#30
1,2,4-Trichlorobenzene
Concen: 41.220 ng
RT: 10.775 min Scan# 1273
Delta R.T. 0.000 min
Lab File: BP016397.D
Acq: 27 Jul 2023 13:20

Tgt Ion:180 Resp: 1236131

Ion	Ratio	Lower	Upper
180	100		
182	96.4	77.1	115.7
145	28.6	22.9	34.3



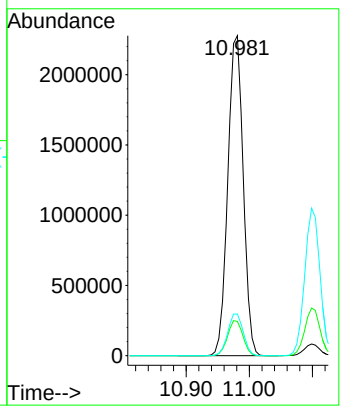


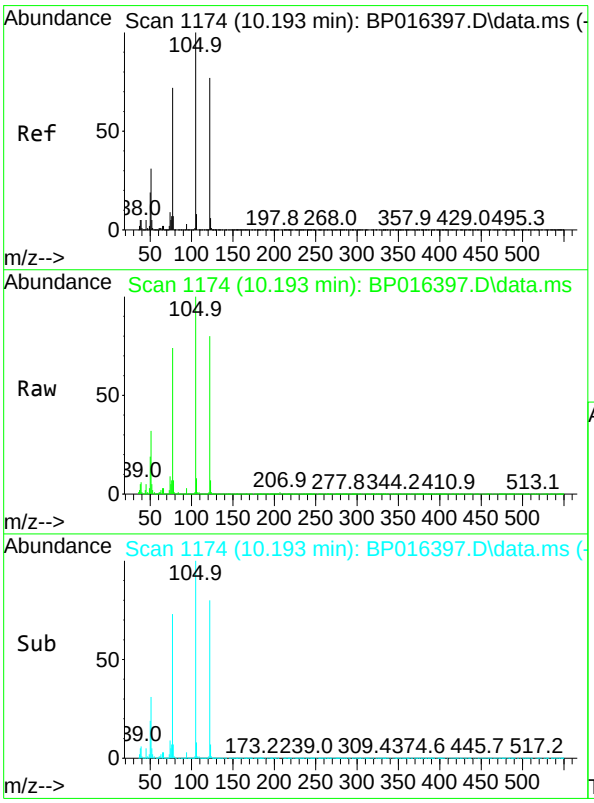
#31
Naphthalene
Concen: 40.234 ng
RT: 10.981 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP016397.D
Acq: 27 Jul 2023 13:20

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:128 Resp: 3858745

Ion	Ratio	Lower	Upper
128	100		
129	10.7	8.6	12.8
127	13.0	10.4	15.6

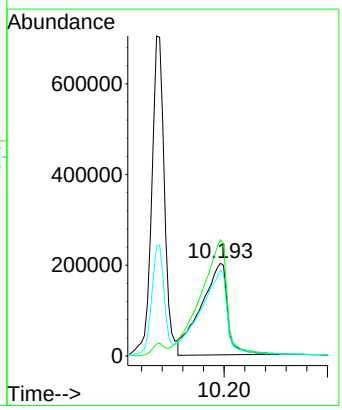


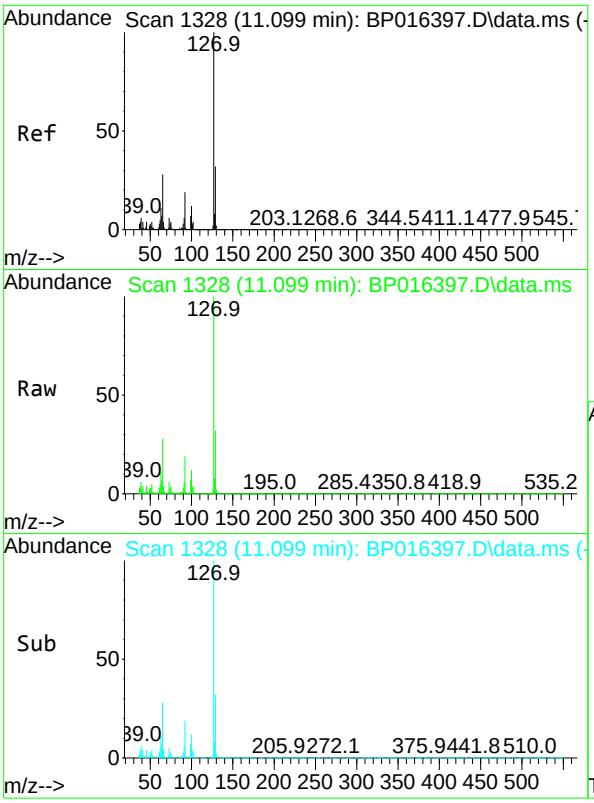


#32
Benzoic acid
Concen: 38.552 ng
RT: 10.193 min Scan# 1174
Delta R.T. -0.000 min
Lab File: BP016397.D
Acq: 27 Jul 2023 13:20

Tgt Ion:122 Resp: 720655

Ion	Ratio	Lower	Upper
122	100		
105	125.2	105.2	145.2
77	92.2	72.2	112.2



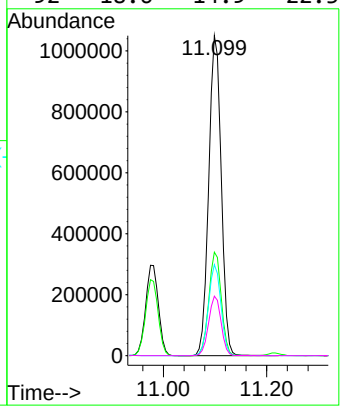


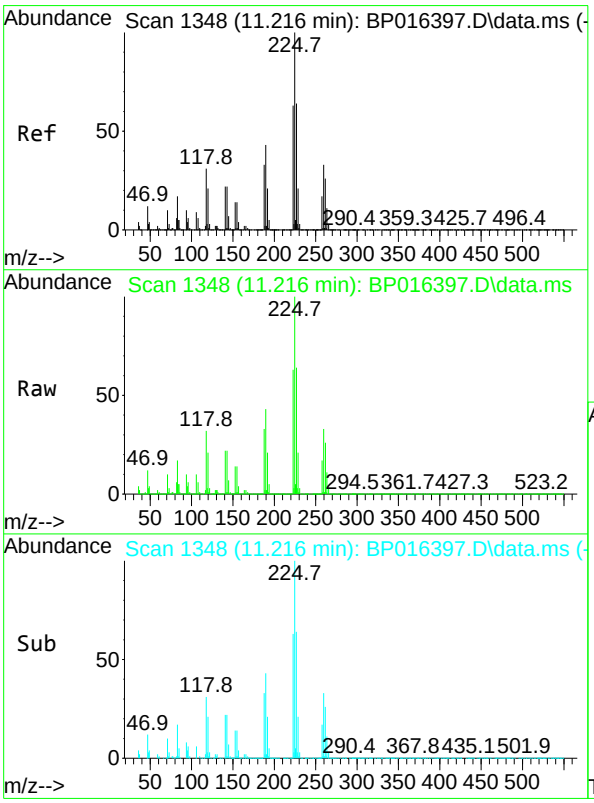
#33
4-Chloroaniline
Concen: 40.749 ng
RT: 11.099 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP016397.D
Acq: 27 Jul 2023 13:20

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:127 Resp: 1762879

Ion	Ratio	Lower	Upper
127	100		
129	32.3	25.8	38.8
65	28.4	22.7	34.1
92	18.6	14.9	22.3

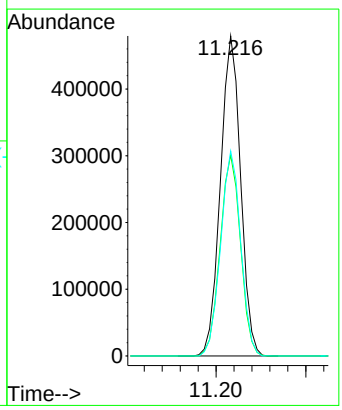


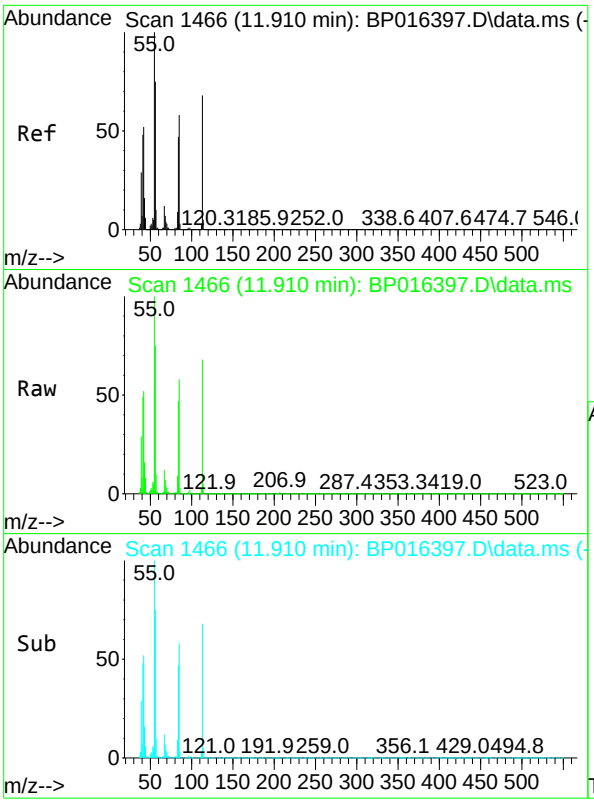


#34
Hexachlorobutadiene
Concen: 42.115 ng
RT: 11.216 min Scan# 1348
Delta R.T. 0.000 min
Lab File: BP016397.D
Acq: 27 Jul 2023 13:20

Tgt Ion:225 Resp: 747734

Ion	Ratio	Lower	Upper
225	100		
223	62.8	50.2	75.4
227	63.8	51.0	76.6



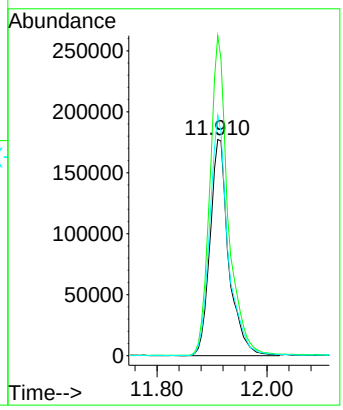


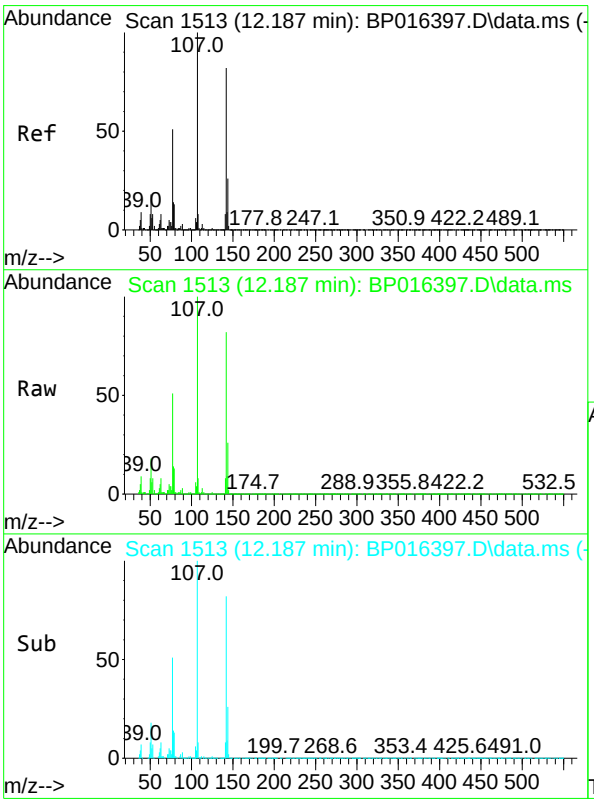
#35
Caprolactam
Concen: 41.298 ng
RT: 11.910 min Scan# 14
Delta R.T. 0.000 min
Lab File: BP016397.D
Acq: 27 Jul 2023 13:20

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:113 Resp: 417901

Ion	Ratio	Lower	Upper
113	100		
55	148.0	128.0	168.0
56	111.3	91.3	131.3

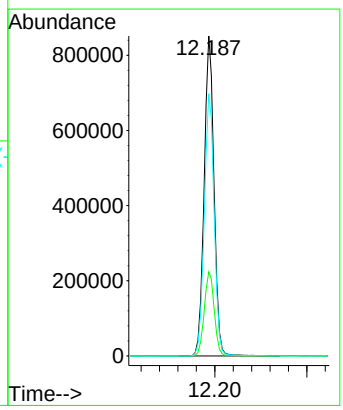


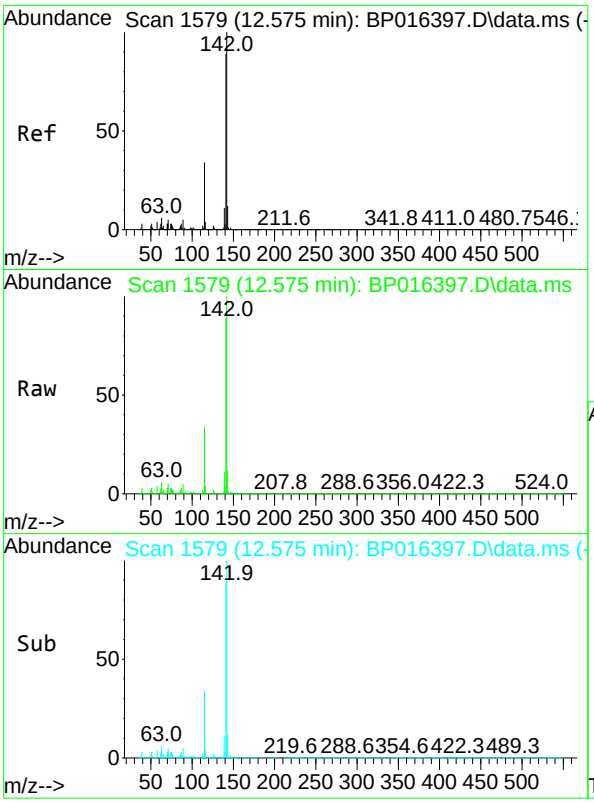


#36
4-Chloro-3-methylphenol
Concen: 41.257 ng
RT: 12.187 min Scan# 1513
Delta R.T. 0.000 min
Lab File: BP016397.D
Acq: 27 Jul 2023 13:20

Tgt Ion:107 Resp: 1269714

Ion	Ratio	Lower	Upper
107	100		
144	26.3	21.0	31.6
142	82.0	65.6	98.4



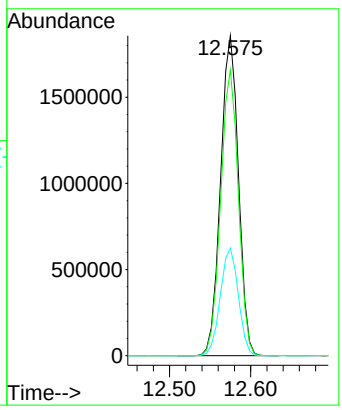


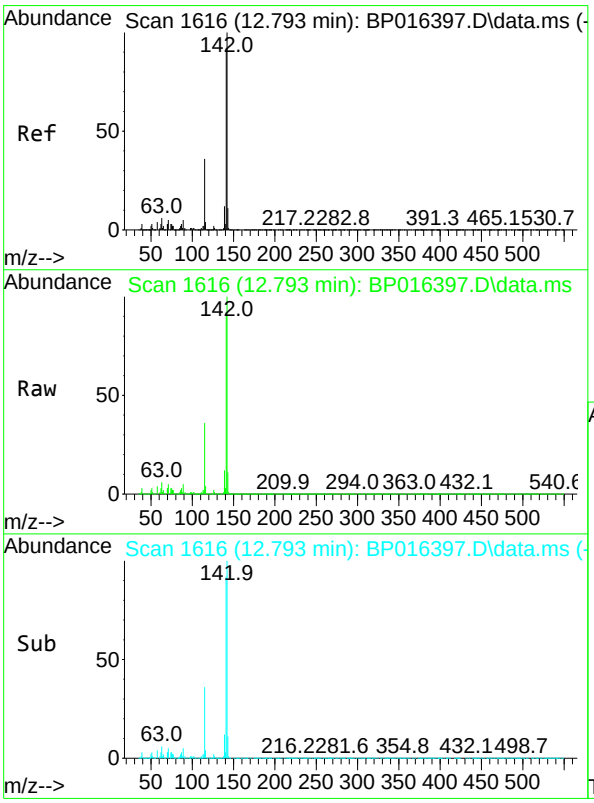
#37
2-Methylnaphthalene
Concen: 40.831 ng
RT: 12.575 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP016397.D
Acq: 27 Jul 2023 13:20

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:142 Resp: 2844832

Ion	Ratio	Lower	Upper
142	100		
141	89.3	71.4	107.2
115	33.7	27.0	40.4

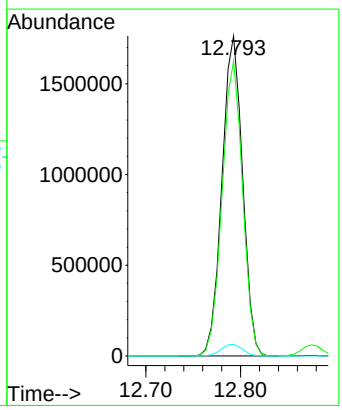


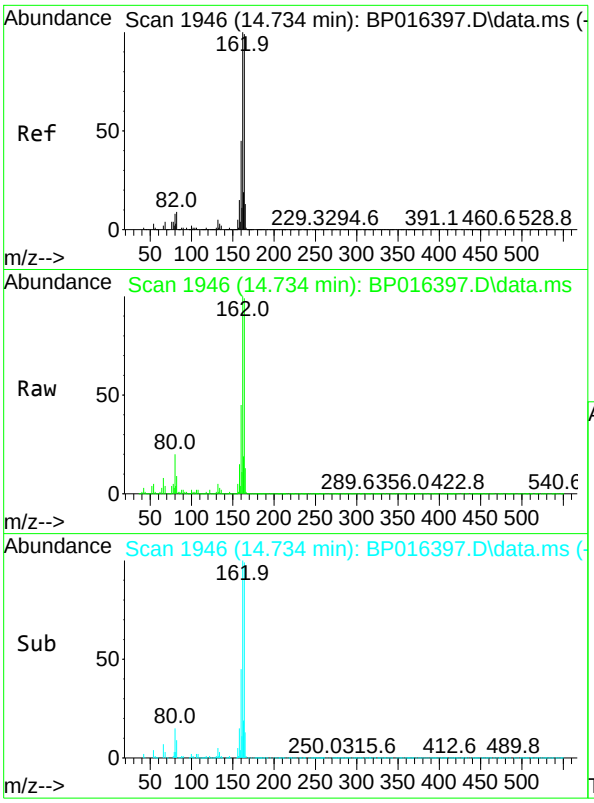


#38
1-Methylnaphthalene
Concen: 40.774 ng
RT: 12.793 min Scan# 1616
Delta R.T. 0.000 min
Lab File: BP016397.D
Acq: 27 Jul 2023 13:20

Tgt Ion:142 Resp: 2663390

Ion	Ratio	Lower	Upper
142	100		
141	92.2	73.8	110.6
116	3.6	2.9	4.3



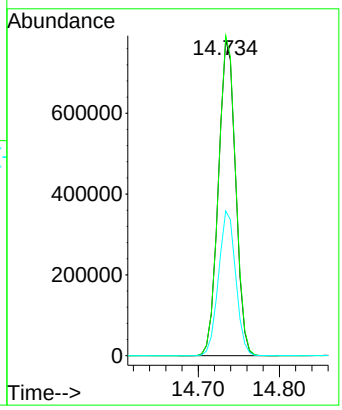


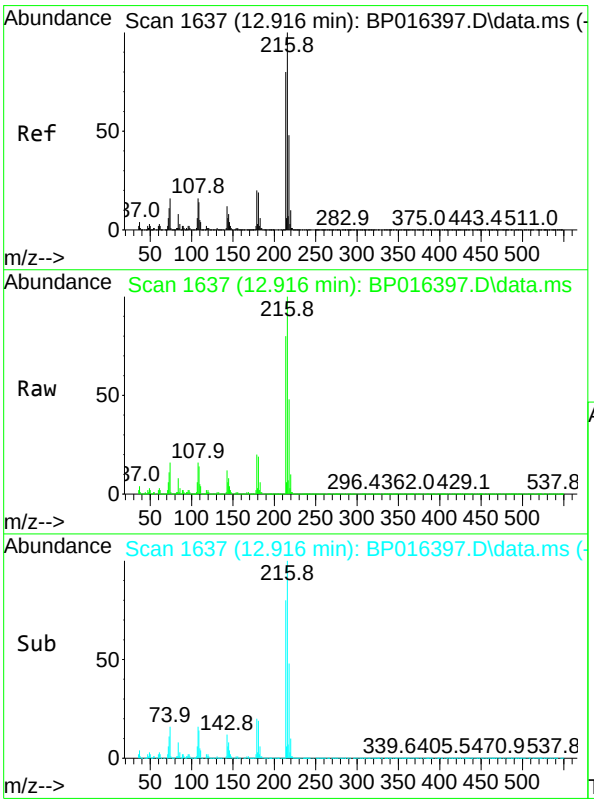
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.734 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP016397.D
Acq: 27 Jul 2023 13:20

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:164 Resp: 1151480

Ion	Ratio	Lower	Upper
164	100		
162	101.3	81.0	121.6
160	45.8	36.6	55.0

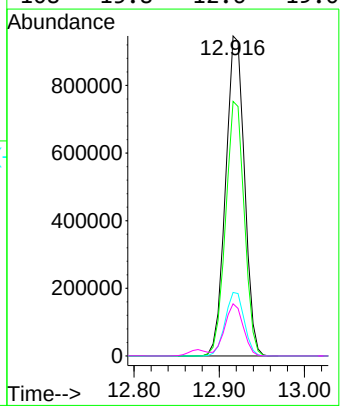


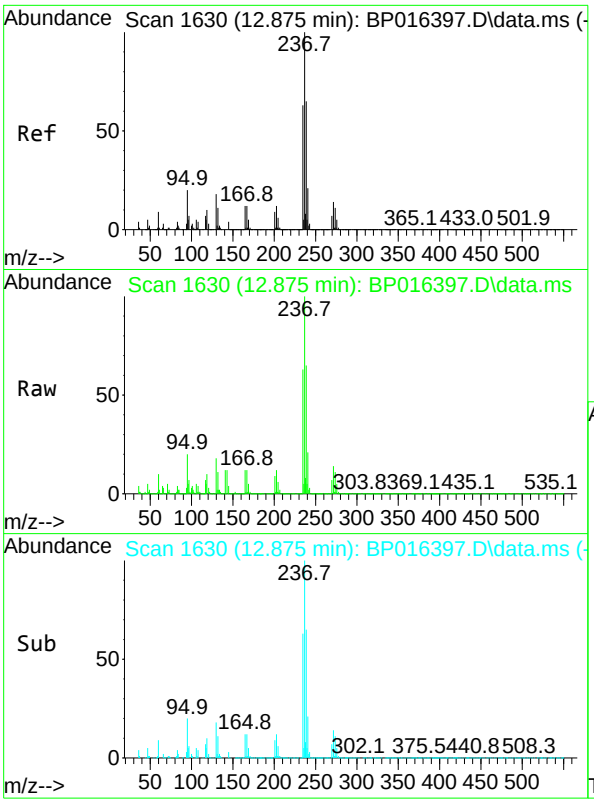


#40
1,2,4,5-Tetrachlorobenzene
Concen: 41.558 ng
RT: 12.916 min Scan# 1637
Delta R.T. 0.000 min
Lab File: BP016397.D
Acq: 27 Jul 2023 13:20

Tgt Ion:216 Resp: 1454226

Ion	Ratio	Lower	Upper
216	100		
214	78.5	62.8	94.2
179	20.0	16.0	24.0
108	15.8	12.6	19.0



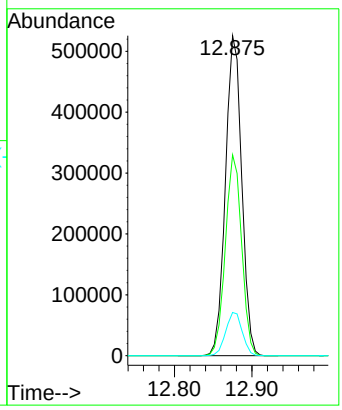


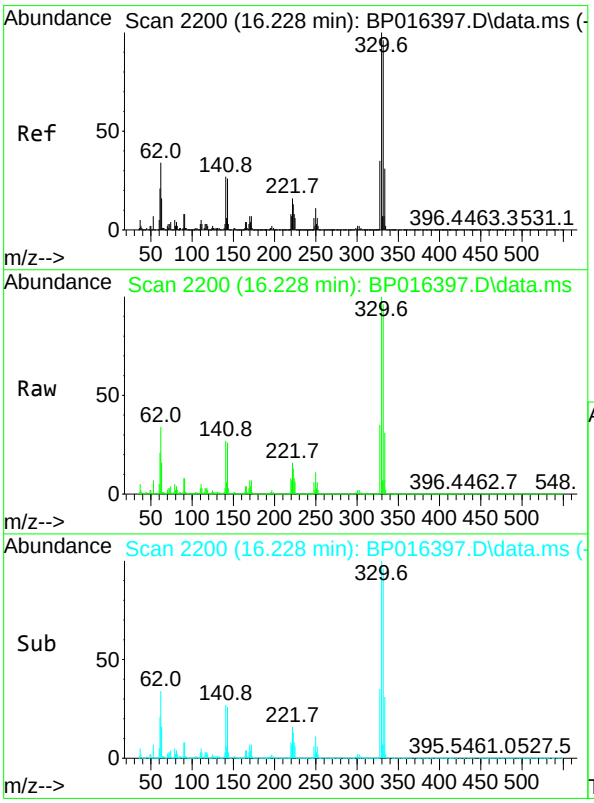
#41
Hexachlorocyclopentadiene
Concen: 43.639 ng
RT: 12.875 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP016397.D
Acq: 27 Jul 2023 13:20

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:237 Resp: 766935

Ion	Ratio	Lower	Upper
237	100		
235	62.7	42.7	82.7
272	13.5	0.0	33.5

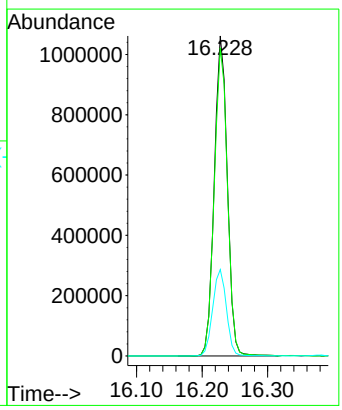


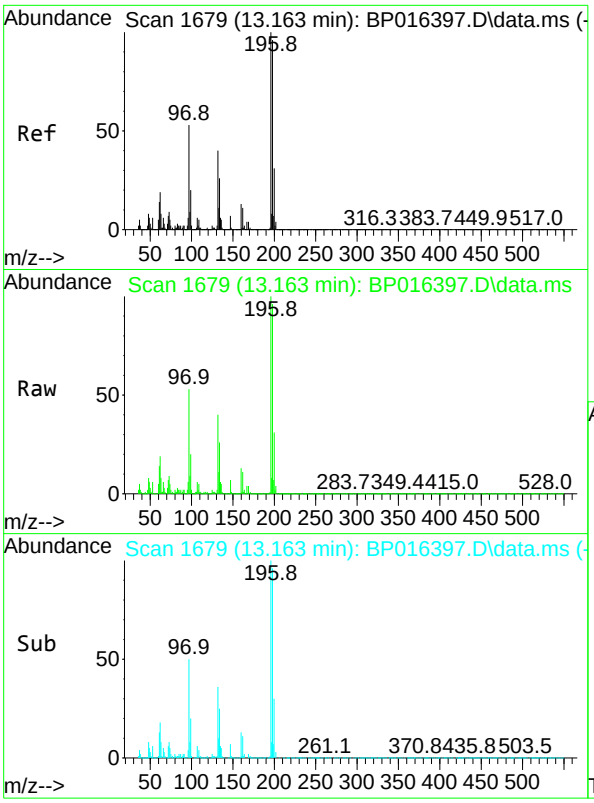


#42
2,4,6-Tribromophenol
Concen: 86.349 ng
RT: 16.228 min Scan# 2200
Delta R.T. -0.000 min
Lab File: BP016397.D
Acq: 27 Jul 2023 13:20

Tgt Ion:330 Resp: 1462756

Ion	Ratio	Lower	Upper
330	100		
332	97.3	77.8	116.8
141	28.3	22.6	34.0



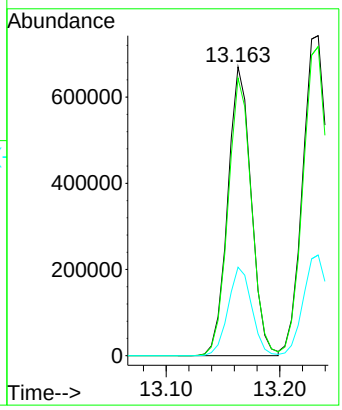


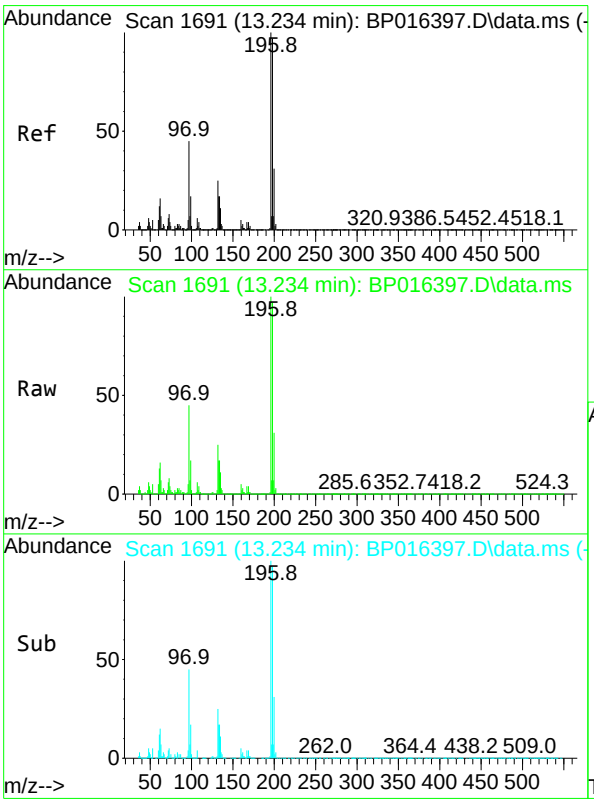
#43
2,4,6-Trichlorophenol
Concen: 42.822 ng
RT: 13.163 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP016397.D
Acq: 27 Jul 2023 13:20

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:196 Resp: 961448

Ion	Ratio	Lower	Upper
196	100		
198	96.2	77.0	115.4
200	30.6	24.5	36.7

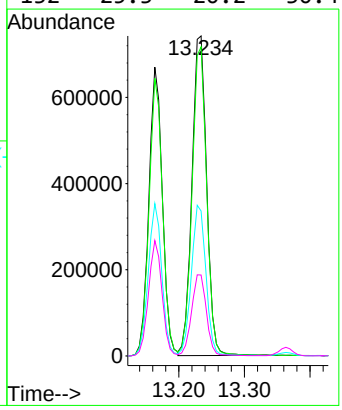


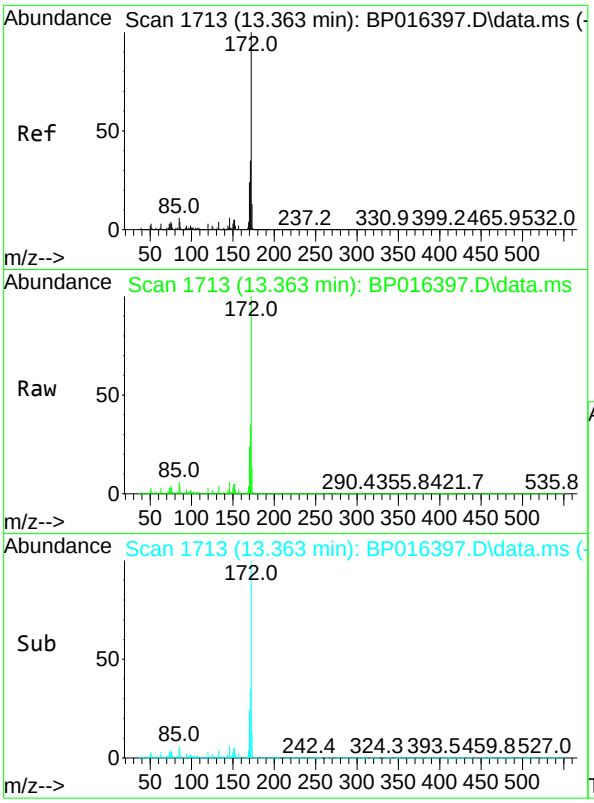


#44
2,4,5-Trichlorophenol
Concen: 42.354 ng
RT: 13.234 min Scan# 1691
Delta R.T. 0.000 min
Lab File: BP016397.D
Acq: 27 Jul 2023 13:20

Tgt Ion:196 Resp: 1153726

Ion	Ratio	Lower	Upper
196	100		
198	96.6	77.3	115.9
97	45.3	36.2	54.4
132	25.3	20.2	30.4



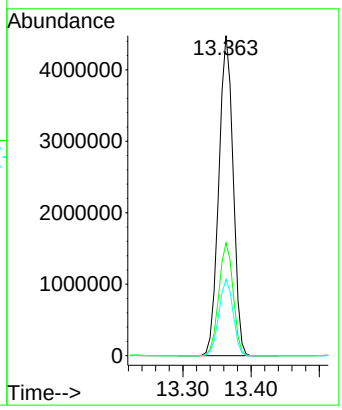


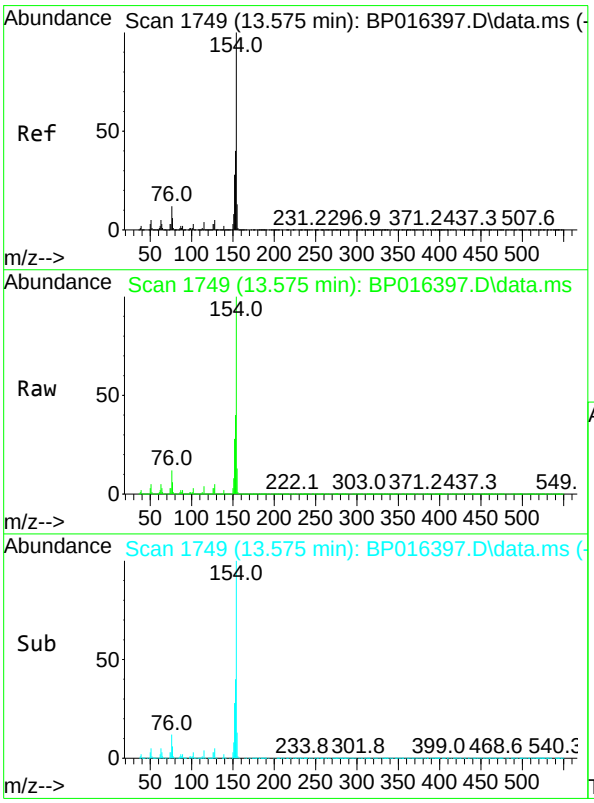
#45
2-Fluorobiphenyl
Concen: 81.326 ng
RT: 13.363 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP016397.D
Acq: 27 Jul 2023 13:20

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:172 Resp: 6531814

Ion	Ratio	Lower	Upper
172	100		
171	35.2	28.2	42.2
170	23.9	19.1	28.7

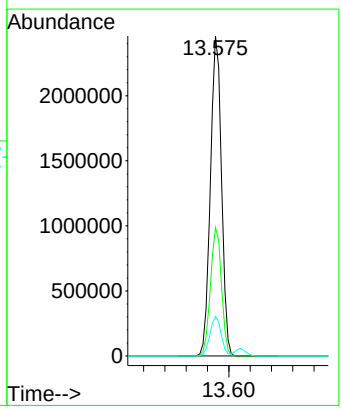


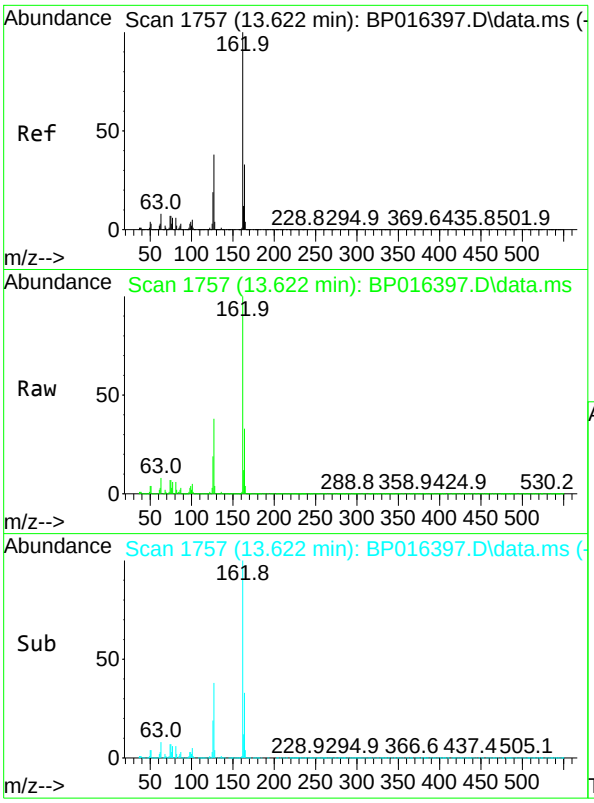


#46
1,1'-Biphenyl
Concen: 40.357 ng
RT: 13.575 min Scan# 1749
Delta R.T. 0.000 min
Lab File: BP016397.D
Acq: 27 Jul 2023 13:20

Tgt Ion:154 Resp: 3542335

Ion	Ratio	Lower	Upper
154	100		
153	40.1	20.1	60.1
76	12.5	0.0	32.5



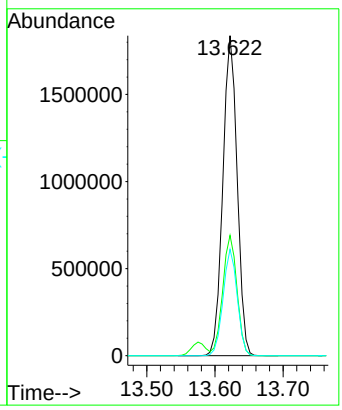


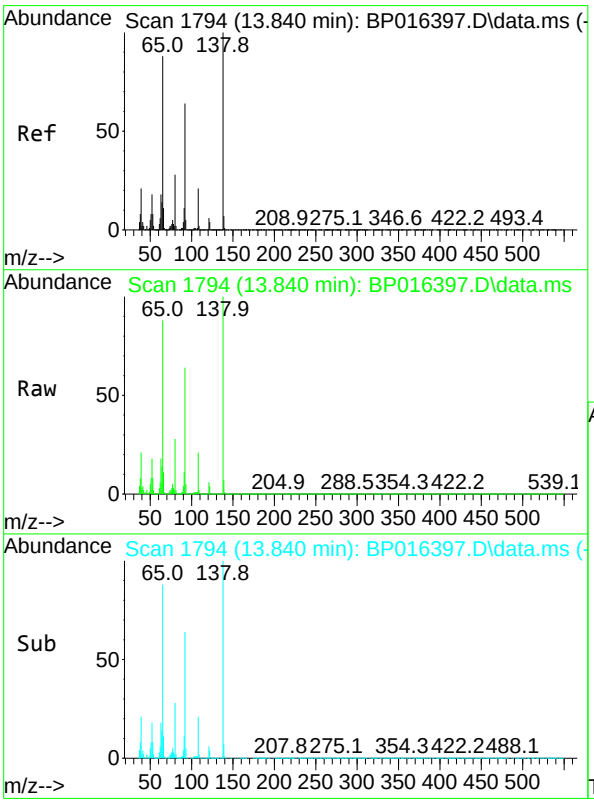
#47
2-Chloronaphthalene
Concen: 40.519 ng
RT: 13.622 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP016397.D
Acq: 27 Jul 2023 13:20

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:162 Resp: 2683222

Ion	Ratio	Lower	Upper
162	100		
127	37.6	30.1	45.1
164	33.2	26.6	39.8

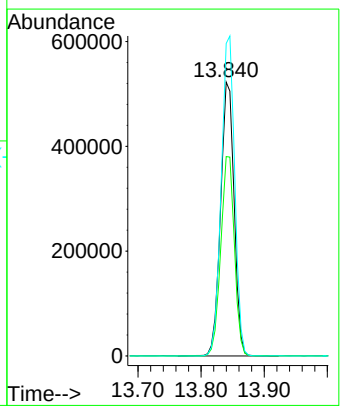


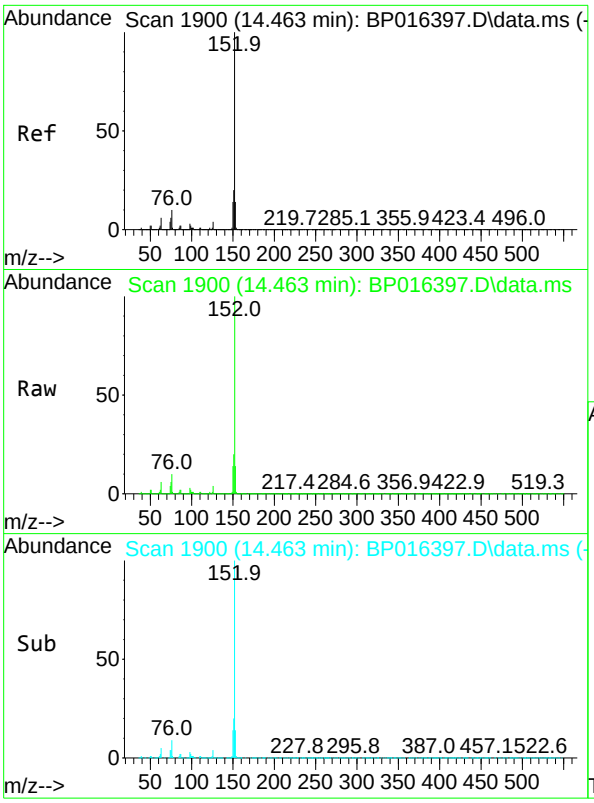


#48
2-Nitroaniline
Concen: 41.664 ng
RT: 13.840 min Scan# 1794
Delta R.T. 0.000 min
Lab File: BP016397.D
Acq: 27 Jul 2023 13:20

Tgt Ion: 65 Resp: 777713

Ion	Ratio	Lower	Upper
65	100		
92	72.8	58.2	87.4
138	114.1	91.3	136.9



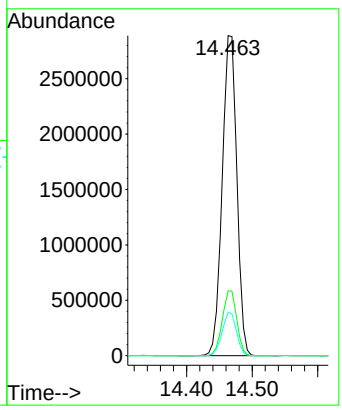


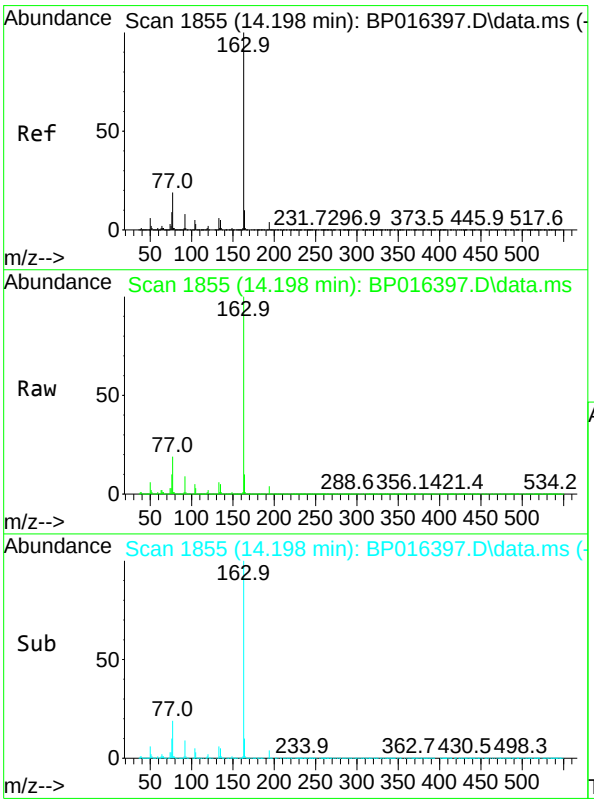
#49
Acenaphthylene
Concen: 40.565 ng
RT: 14.463 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP016397.D
Acq: 27 Jul 2023 13:20

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:152 Resp: 4457033

Ion	Ratio	Lower	Upper
152	100		
151	20.3	16.2	24.4
153	13.5	10.8	16.2

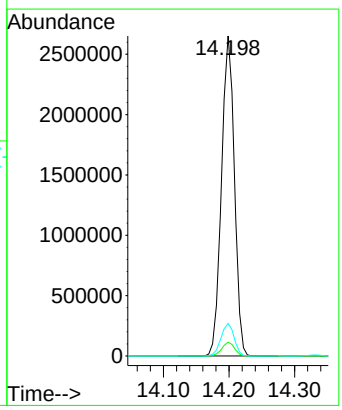


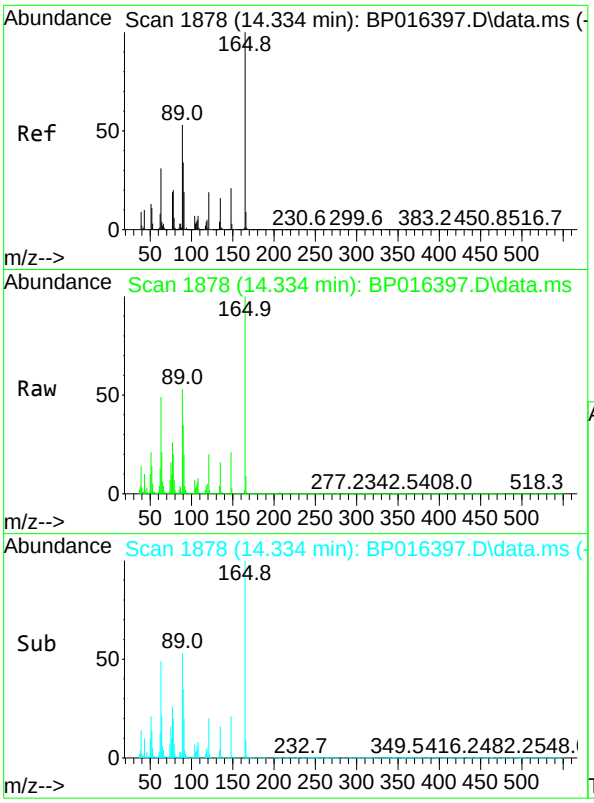


#50
Dimethylphthalate
Concen: 40.207 ng
RT: 14.198 min Scan# 1855
Delta R.T. 0.000 min
Lab File: BP016397.D
Acq: 27 Jul 2023 13:20

Tgt Ion:163 Resp: 3607775

Ion	Ratio	Lower	Upper
163	100		
194	4.3	3.4	5.2
164	10.2	8.2	12.2



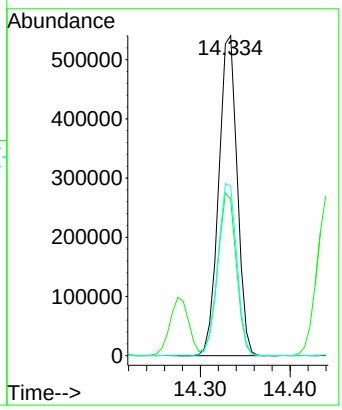


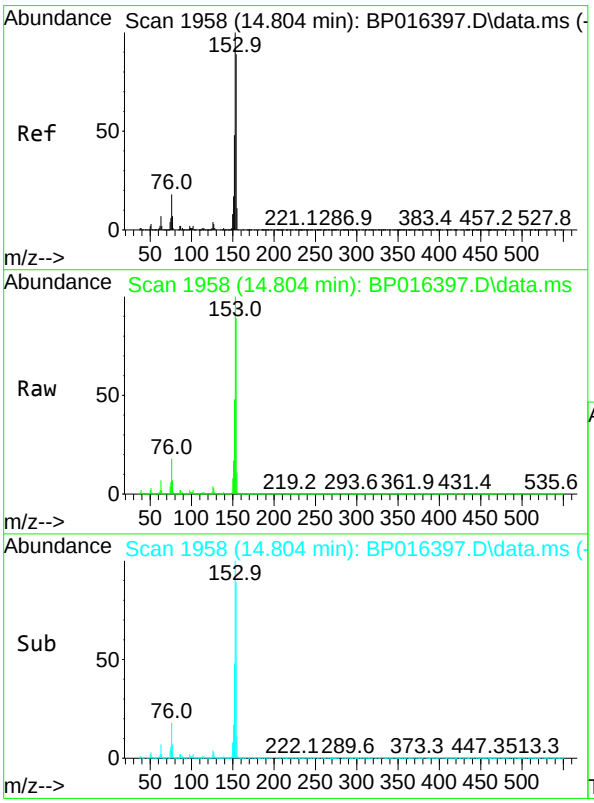
#51
2,6-Dinitrotoluene
Concen: 42.009 ng
RT: 14.334 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP016397.D
Acq: 27 Jul 2023 13:20

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:165 Resp: 772239

Ion	Ratio	Lower	Upper
165	100		
63	48.9	39.1	58.7
89	53.1	42.5	63.7

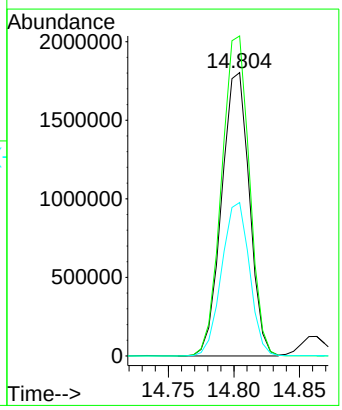


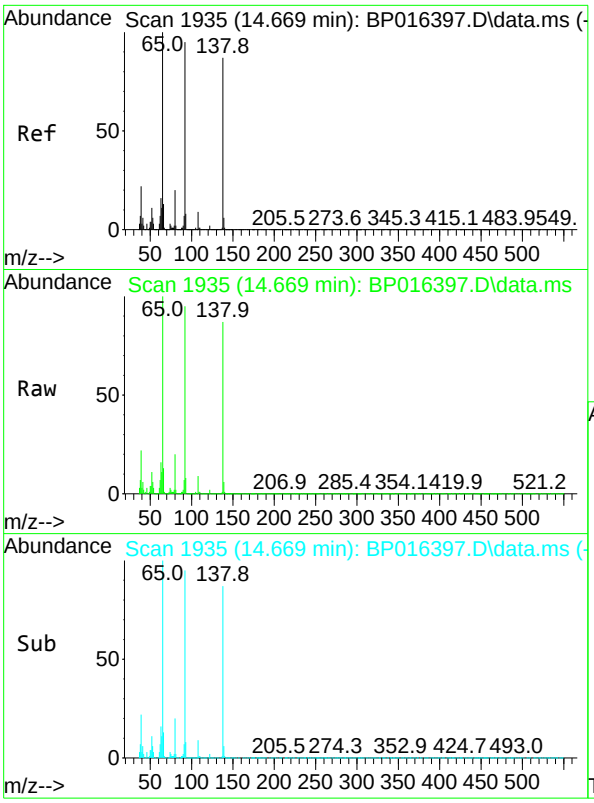


#52
Acenaphthene
Concen: 40.578 ng
RT: 14.804 min Scan# 1958
Delta R.T. 0.000 min
Lab File: BP016397.D
Acq: 27 Jul 2023 13:20

Tgt Ion:154 Resp: 2651274

Ion	Ratio	Lower	Upper
154	100		
153	113.0	90.4	135.6
152	54.2	43.4	65.0



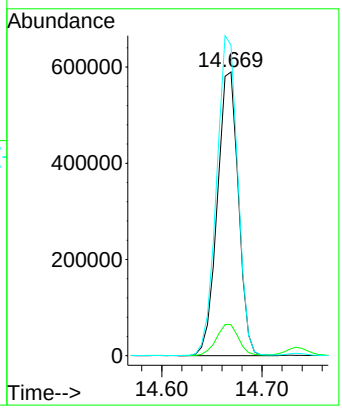


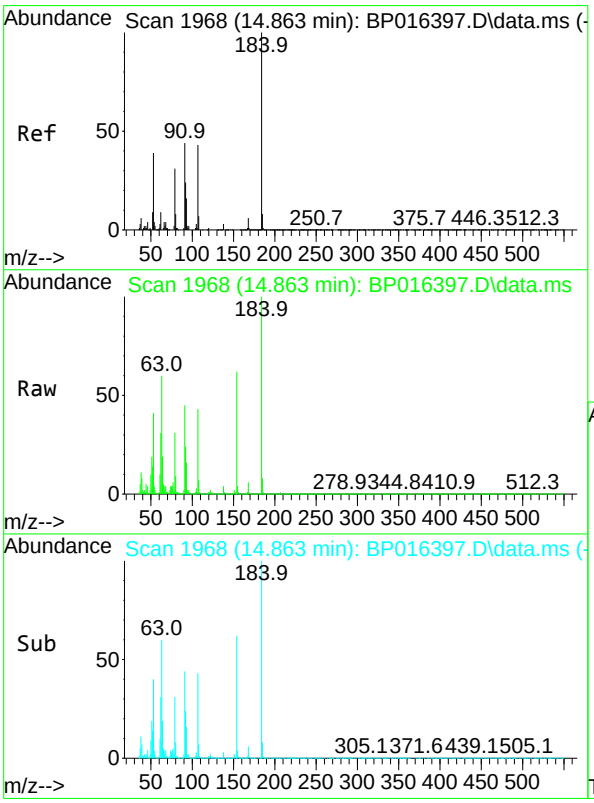
#53
3-Nitroaniline
Concen: 41.421 ng
RT: 14.669 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP016397.D
Acq: 27 Jul 2023 13:20

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:138 Resp: 860827

Ion	Ratio	Lower	Upper
138	100		
108	10.9	8.7	13.1
92	109.5	87.6	131.4

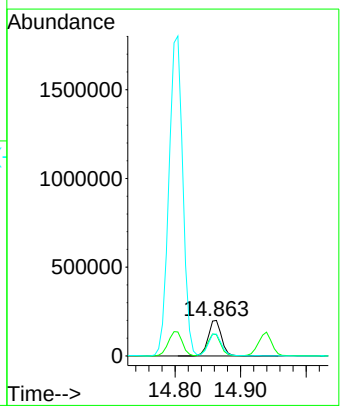


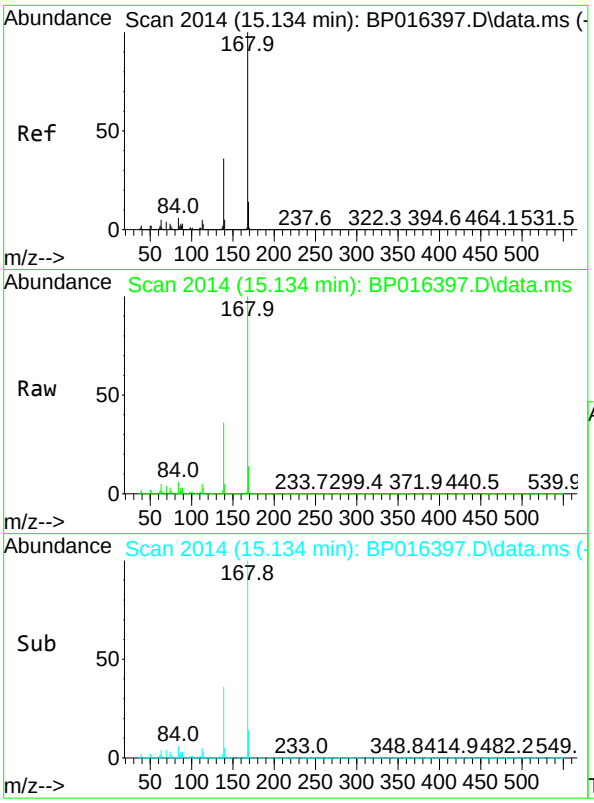


#54
2,4-Dinitrophenol
Concen: 37.395 ng
RT: 14.863 min Scan# 1968
Delta R.T. 0.000 min
Lab File: BP016397.D
Acq: 27 Jul 2023 13:20

Tgt Ion:184 Resp: 280868

Ion	Ratio	Lower	Upper
184	100		
63	60.3	48.2	72.4
154	62.0	49.6	74.4



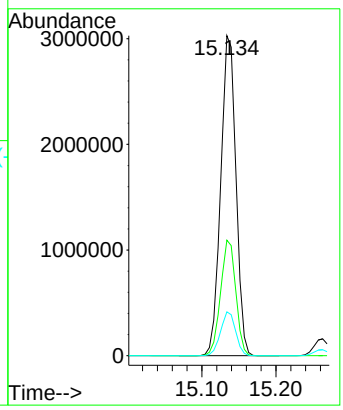


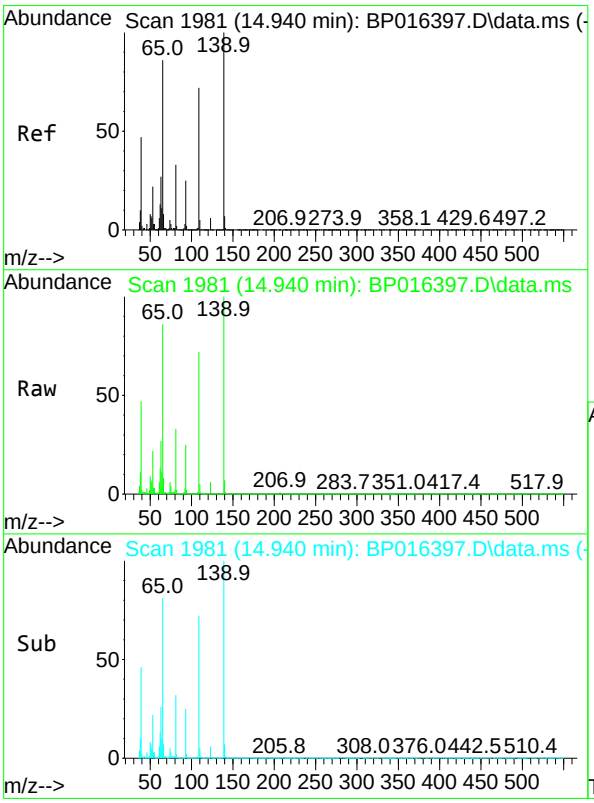
#55
Dibenzofuran
Concen: 40.344 ng
RT: 15.134 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP016397.D
Acq: 27 Jul 2023 13:20

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:168 Resp: 4323113

Ion	Ratio	Lower	Upper
168	100		
139	36.1	28.9	43.3
169	13.7	11.0	16.4

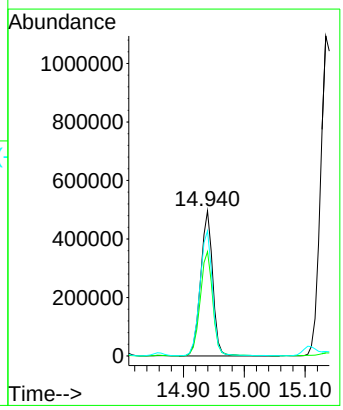


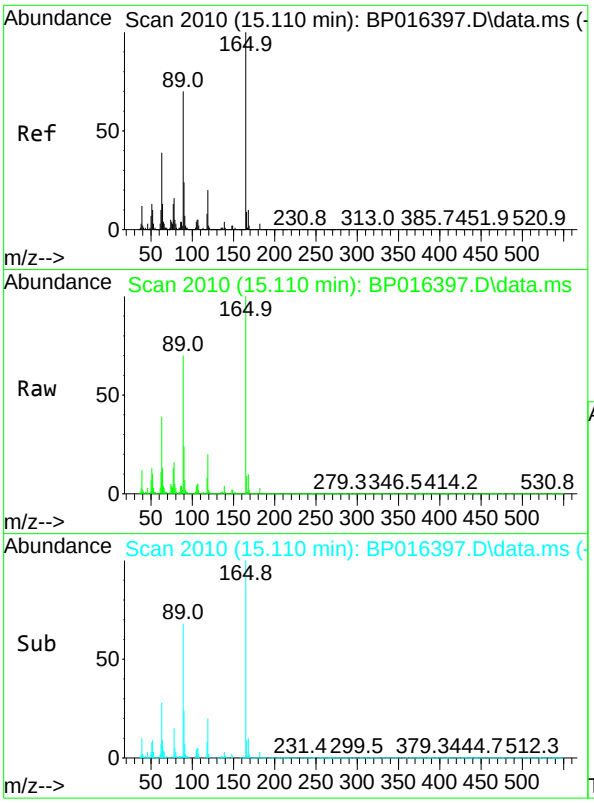


#56
4-Nitrophenol
Concen: 41.904 ng
RT: 14.940 min Scan# 1981
Delta R.T. 0.000 min
Lab File: BP016397.D
Acq: 27 Jul 2023 13:20

Tgt Ion:139 Resp: 681700

Ion	Ratio	Lower	Upper
139	100		
109	71.9	51.9	91.9
65	86.2	66.2	106.2



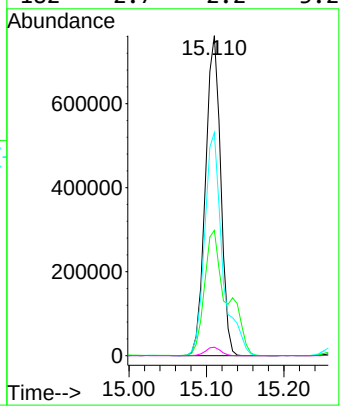


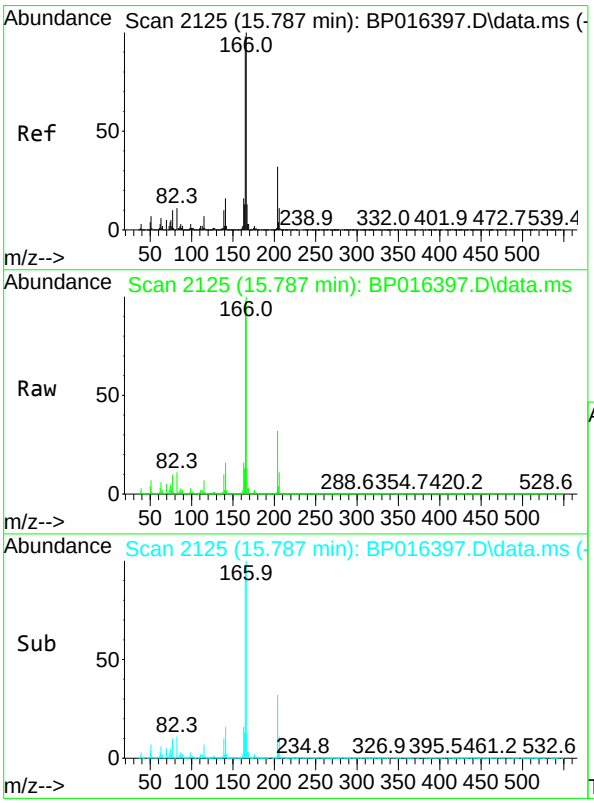
#57
2,4-Dinitrotoluene
Concen: 43.255 ng
RT: 15.110 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP016397.D
Acq: 27 Jul 2023 13:20

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:165 Resp: 1036257

Ion	Ratio	Lower	Upper
165	100		
63	39.2	31.4	47.0
89	69.7	55.8	83.6
182	2.7	2.2	3.2

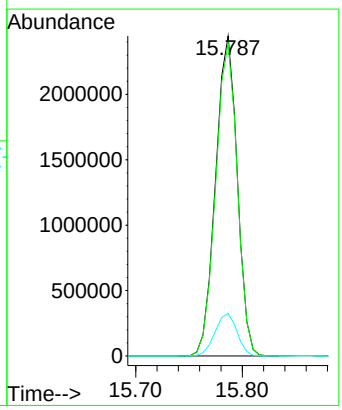


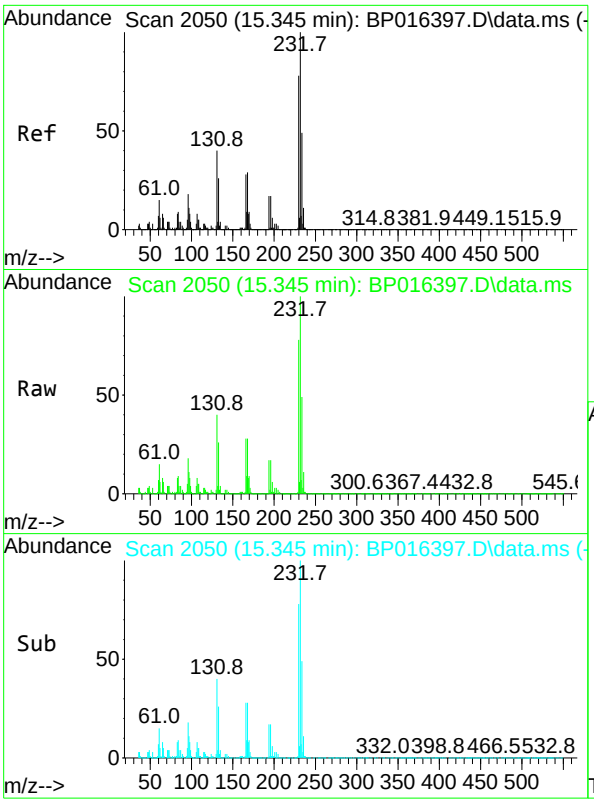


#58
Fluorene
Concen: 40.880 ng
RT: 15.787 min Scan# 2125
Delta R.T. 0.000 min
Lab File: BP016397.D
Acq: 27 Jul 2023 13:20

Tgt Ion:166 Resp: 3441508

Ion	Ratio	Lower	Upper
166	100		
165	97.5	78.0	117.0
167	13.3	10.6	16.0



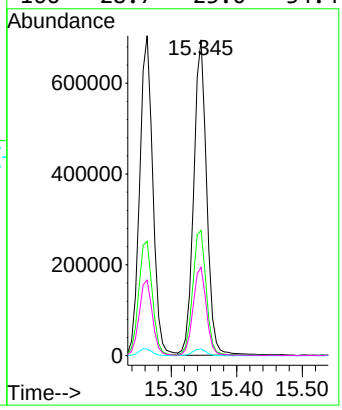


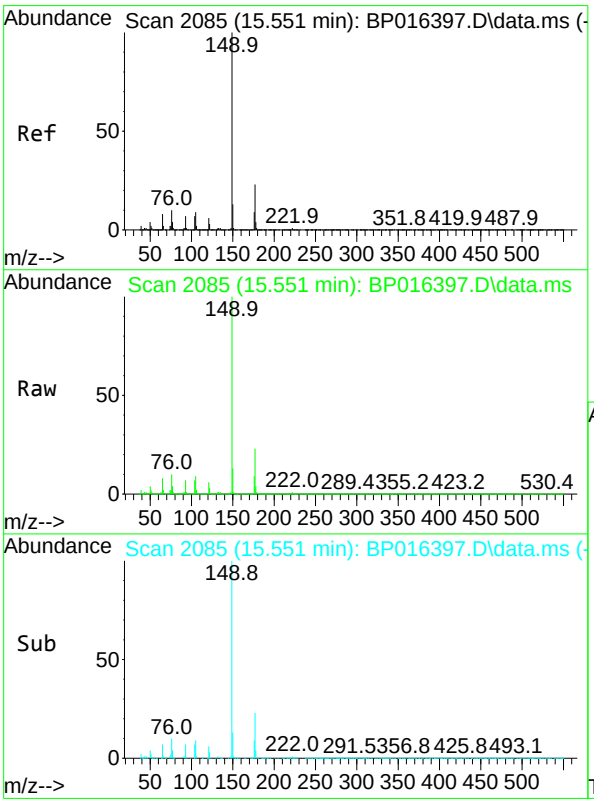
#59
2,3,4,6-Tetrachlorophenol
Concen: 42.823 ng
RT: 15.345 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP016397.D
Acq: 27 Jul 2023 13:20

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:232 Resp: 959566

Ion	Ratio	Lower	Upper
232	100		
131	41.4	33.1	49.7
130	2.3	1.8	2.8
166	28.7	23.0	34.4

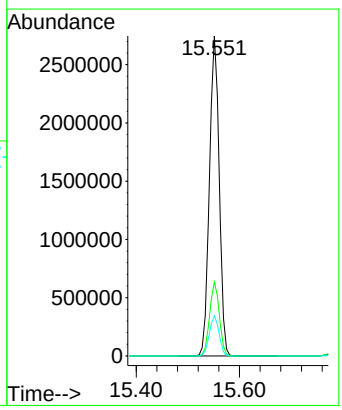


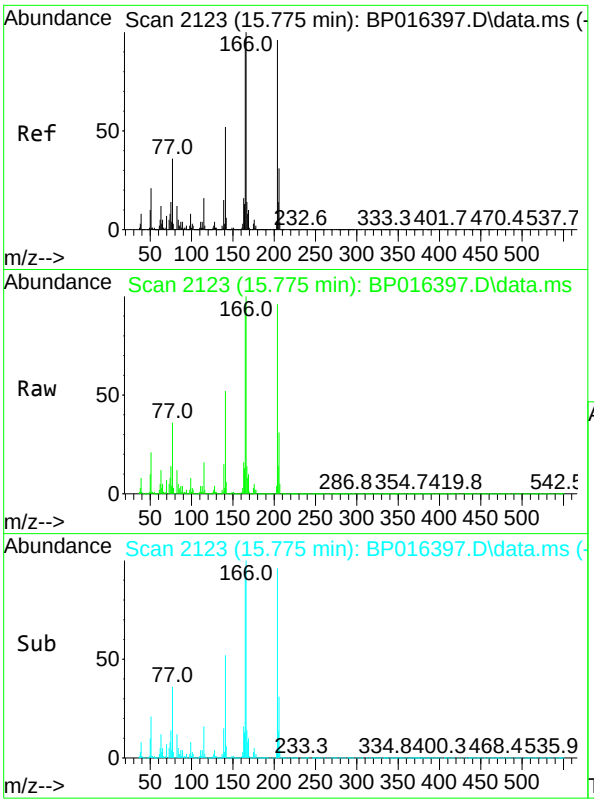


#60
Diethylphthalate
Concen: 40.401 ng
RT: 15.551 min Scan# 2085
Delta R.T. 0.000 min
Lab File: BP016397.D
Acq: 27 Jul 2023 13:20

Tgt Ion:149 Resp: 3602654

Ion	Ratio	Lower	Upper
149	100		
177	23.2	18.6	27.8
150	12.6	10.1	15.1



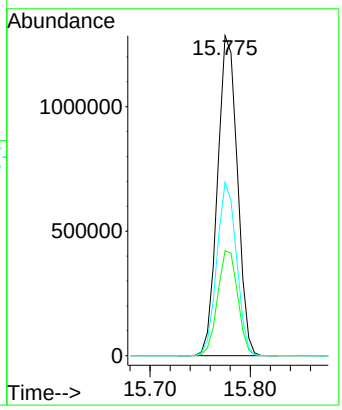


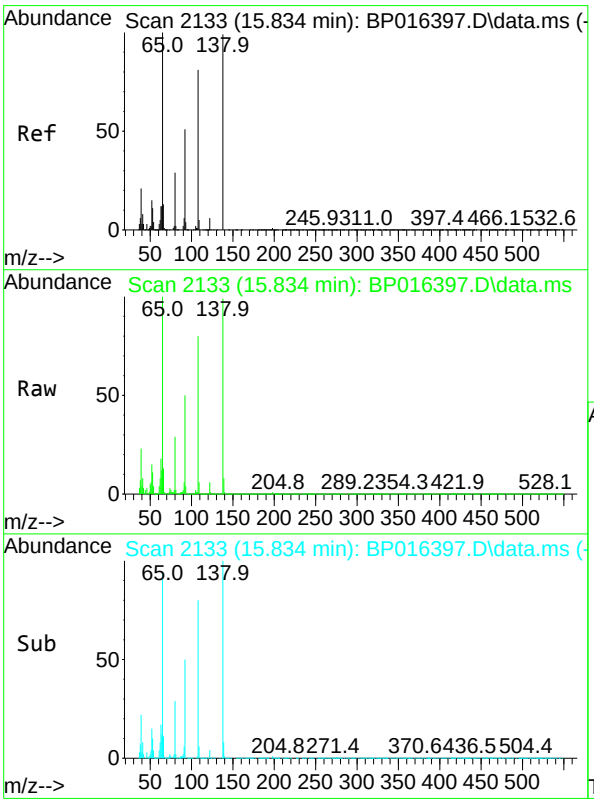
#61
4-Chlorophenyl-phenylether
Concen: 41.469 ng
RT: 15.775 min Scan# 21
Delta R.T. 0.000 min
Lab File: BP016397.D
Acq: 27 Jul 2023 13:20

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:204 Resp: 1761696

Ion	Ratio	Lower	Upper
204	100		
206	32.8	26.2	39.4
141	54.2	43.4	65.0

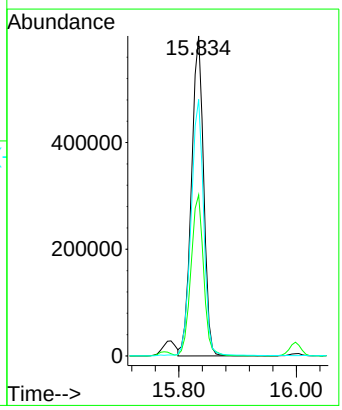


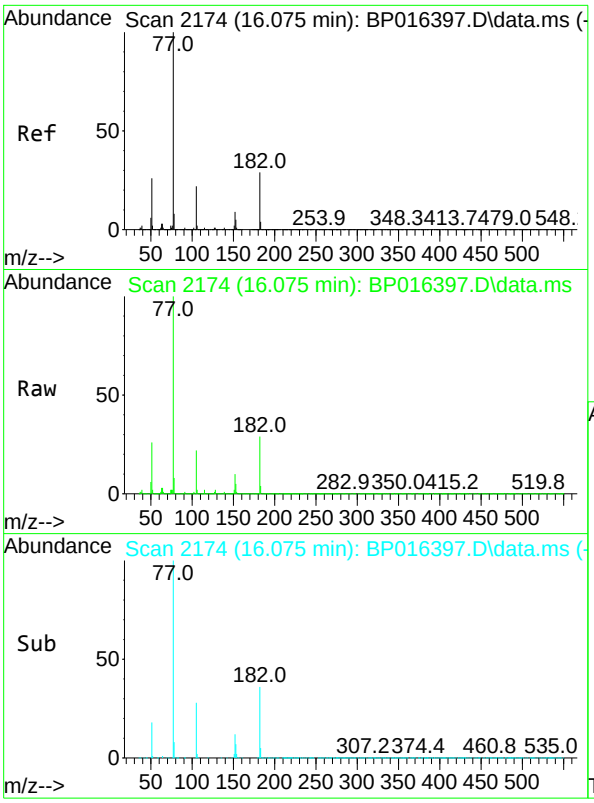


#62
4-Nitroaniline
Concen: 41.925 ng
RT: 15.834 min Scan# 2133
Delta R.T. 0.000 min
Lab File: BP016397.D
Acq: 27 Jul 2023 13:20

Tgt Ion:138 Resp: 864693

Ion	Ratio	Lower	Upper
138	100		
92	50.3	30.3	70.3
108	80.1	60.1	100.1



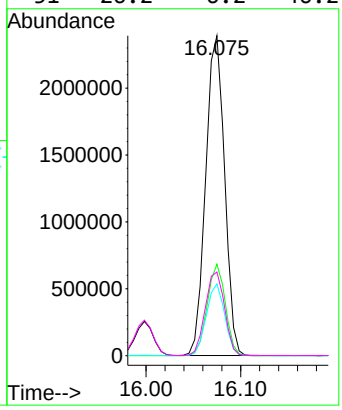


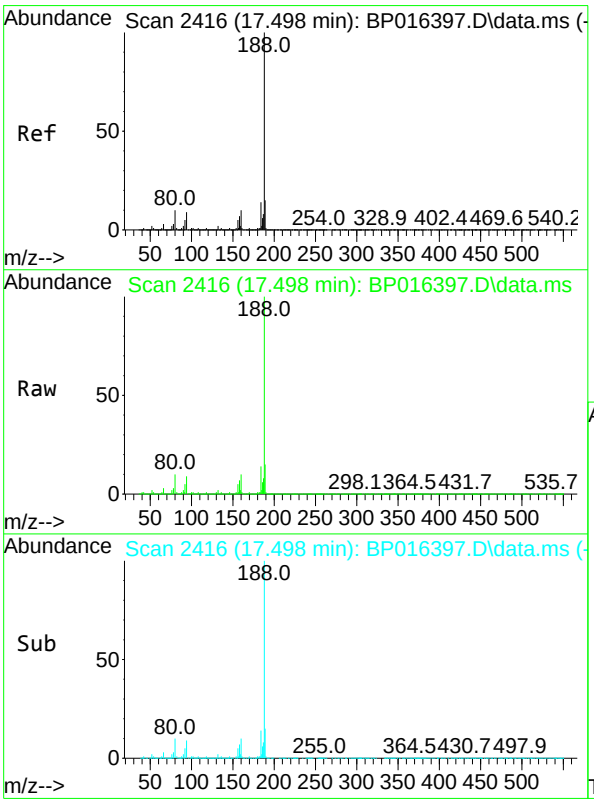
#63
Azobenzene
Concen: 39.264 ng
RT: 16.075 min Scan# 21
Delta R.T. 0.000 min
Lab File: BP016397.D
Acq: 27 Jul 2023 13:20

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion: 77 Resp: 3306003

Ion	Ratio	Lower	Upper
77	100		
182	28.6	8.6	48.6
105	22.4	2.4	42.4
51	26.2	6.2	46.2

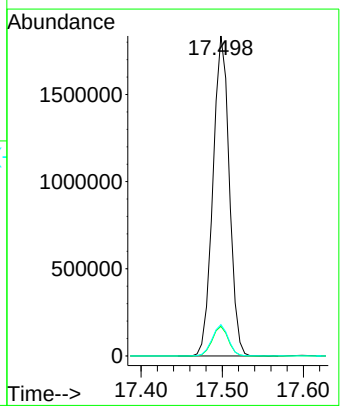


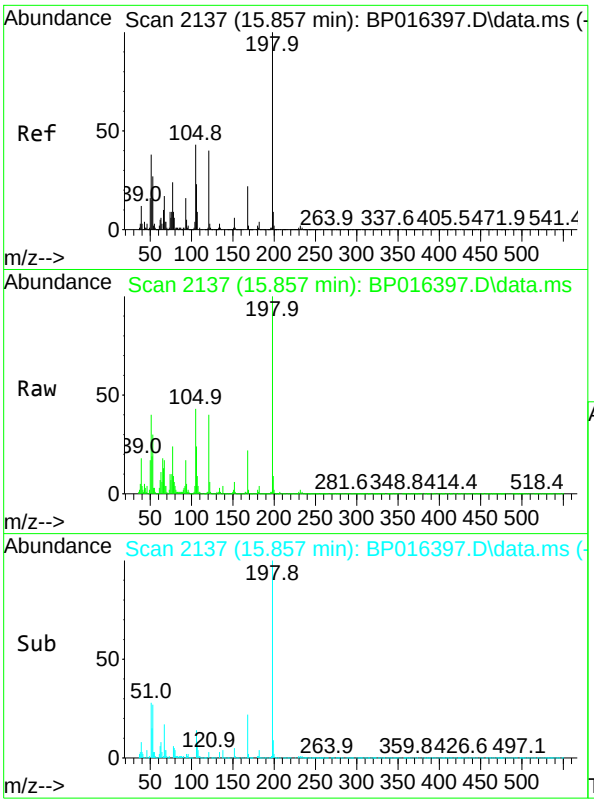


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.498 min Scan# 2416
Delta R.T. 0.000 min
Lab File: BP016397.D
Acq: 27 Jul 2023 13:20

Tgt Ion:188 Resp: 2571002

Ion	Ratio	Lower	Upper
188	100		
94	9.2	7.4	11.0
80	9.8	7.8	11.8



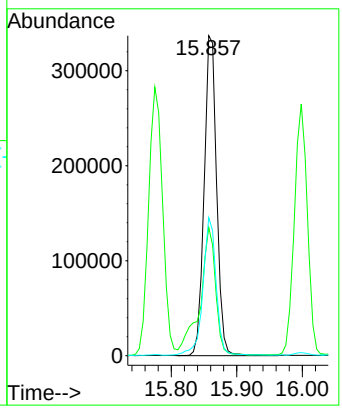


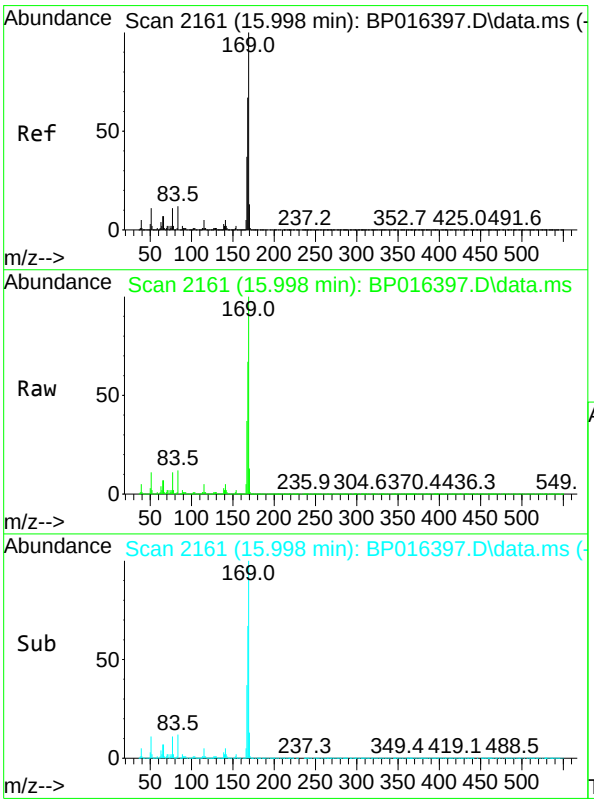
#65
4,6-Dinitro-2-methylphenol
Concen: 38.617 ng
RT: 15.857 min Scan# 21
Delta R.T. 0.000 min
Lab File: BP016397.D
Acq: 27 Jul 2023 13:20

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:198 Resp: 447824

Ion	Ratio	Lower	Upper
198	100		
51	40.1	20.1	60.1
105	43.1	23.1	63.1

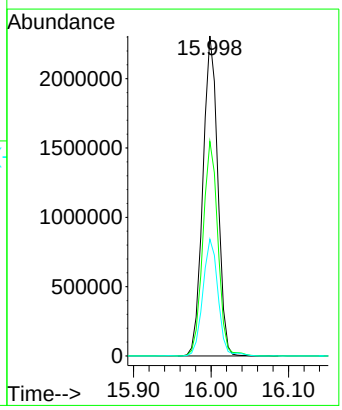


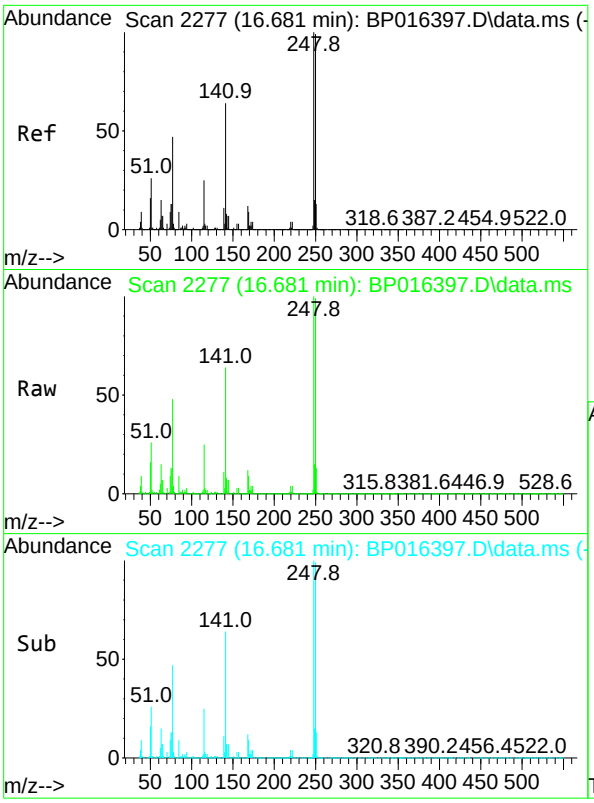


#66
n-Nitrosodiphenylamine
Concen: 40.532 ng
RT: 15.998 min Scan# 2161
Delta R.T. 0.000 min
Lab File: BP016397.D
Acq: 27 Jul 2023 13:20

Tgt Ion:169 Resp: 3071081

Ion	Ratio	Lower	Upper
169	100		
168	67.0	53.6	80.4
167	36.5	29.2	43.8



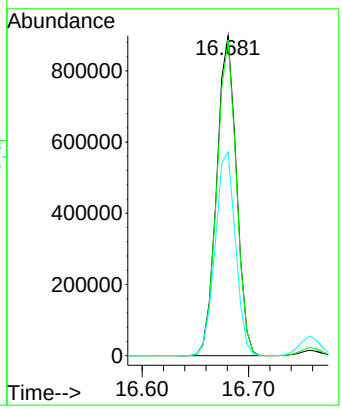


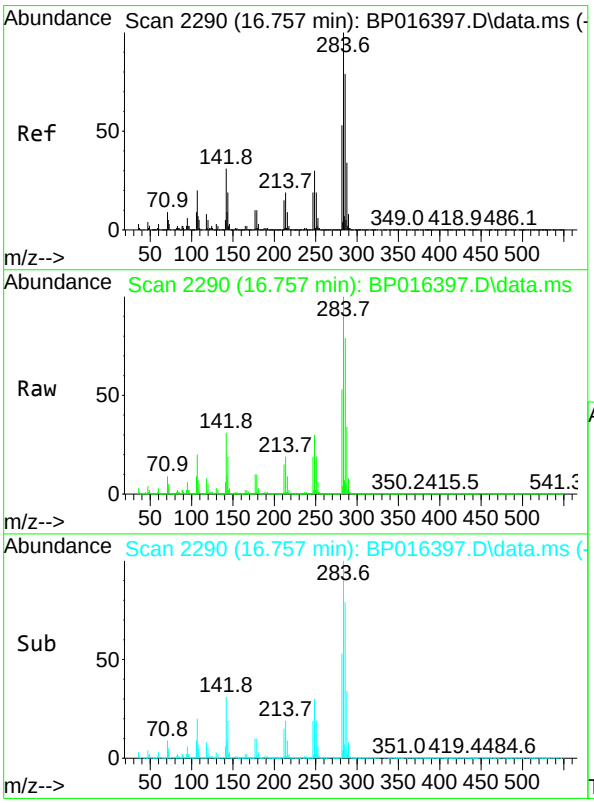
#67
4-Bromophenyl-phenylether
Concen: 42.362 ng
RT: 16.681 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP016397.D
Acq: 27 Jul 2023 13:20

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:248 Resp: 1153236

Ion	Ratio	Lower	Upper
248	100		
250	98.6	78.9	118.3
141	63.7	51.0	76.4

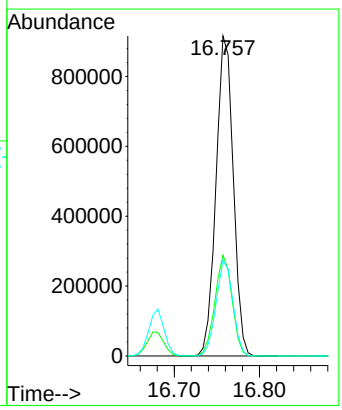


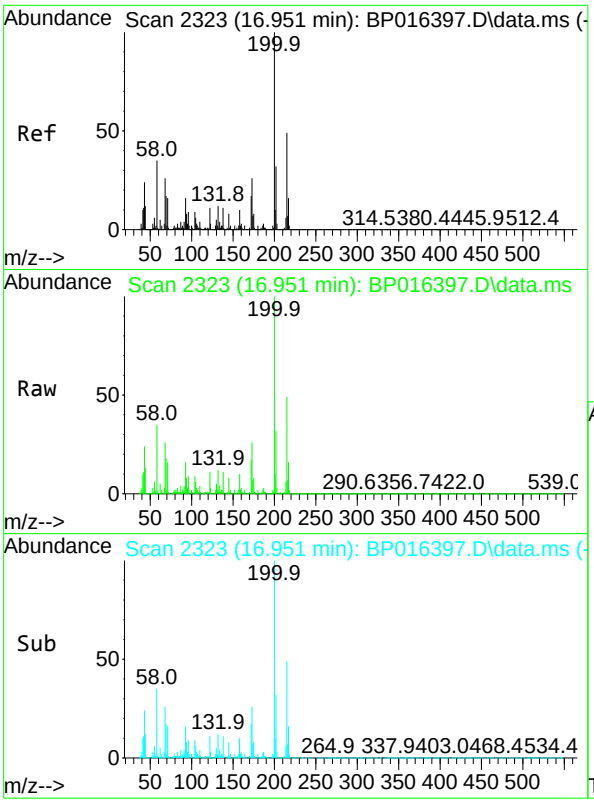


#68
Hexachlorobenzene
Concen: 42.402 ng
RT: 16.757 min Scan# 2290
Delta R.T. 0.000 min
Lab File: BP016397.D
Acq: 27 Jul 2023 13:20

Tgt Ion:284 Resp: 1287286

Ion	Ratio	Lower	Upper
284	100		
142	31.5	25.2	37.8
249	32.5	26.0	39.0



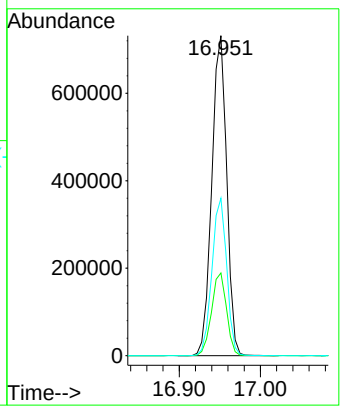


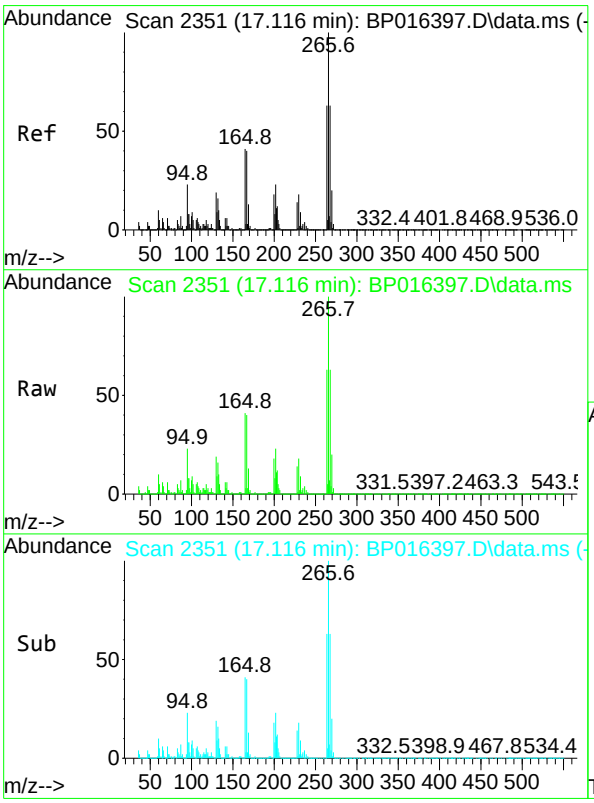
#69
Atrazine
Concen: 41.370 ng
RT: 16.951 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP016397.D
Acq: 27 Jul 2023 13:20

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:200 Resp: 932227

Ion	Ratio	Lower	Upper
200	100		
173	25.8	5.8	45.8
215	49.2	29.2	69.2

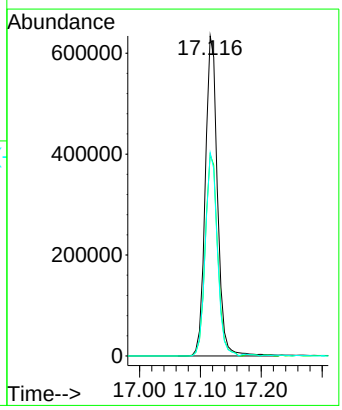


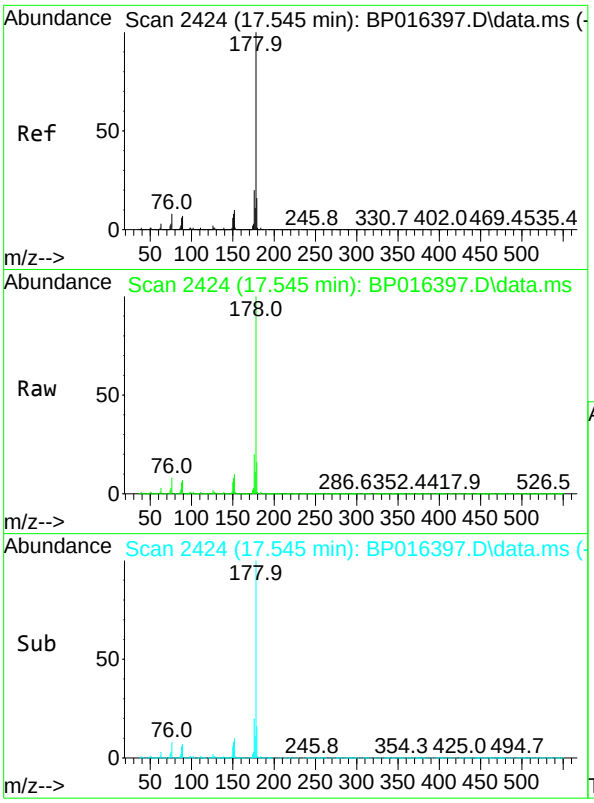


#70
Pentachlorophenol
Concen: 42.054 ng
RT: 17.116 min Scan# 2351
Delta R.T. -0.000 min
Lab File: BP016397.D
Acq: 27 Jul 2023 13:20

Tgt Ion:266 Resp: 883516

Ion	Ratio	Lower	Upper
266	100		
268	67.4	53.9	80.9
264	68.6	54.9	82.3



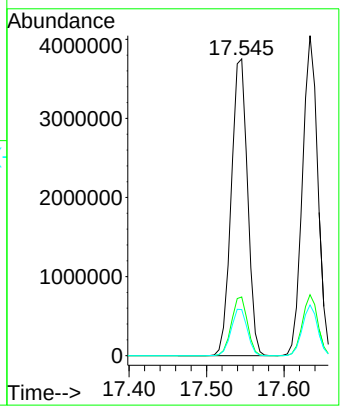


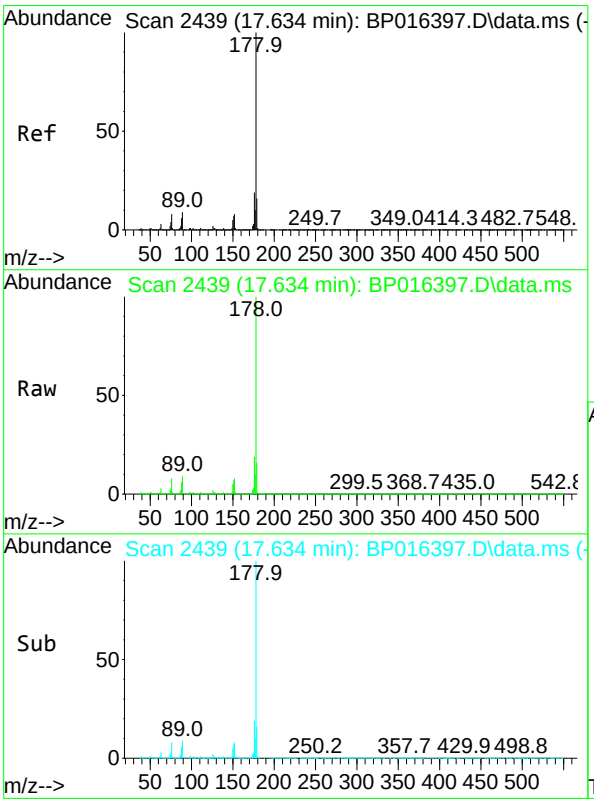
#71
Phenanthrene
Concen: 40.228 ng
RT: 17.545 min Scan# 24
Delta R.T. 0.000 min
Lab File: BP016397.D
Acq: 27 Jul 2023 13:20

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:178 Resp: 5491912

Ion	Ratio	Lower	Upper
178	100		
176	19.8	15.8	23.8
179	15.5	12.4	18.6

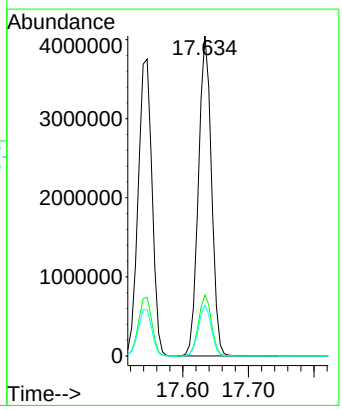


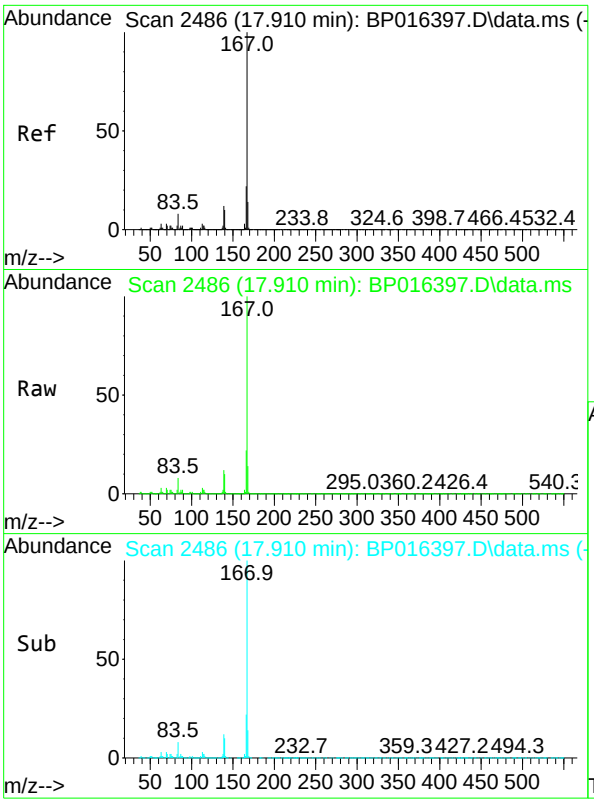


#72
Anthracene
Concen: 40.770 ng
RT: 17.634 min Scan# 2439
Delta R.T. 0.000 min
Lab File: BP016397.D
Acq: 27 Jul 2023 13:20

Tgt Ion:178 Resp: 5596746

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.2	22.8
179	15.8	12.6	19.0



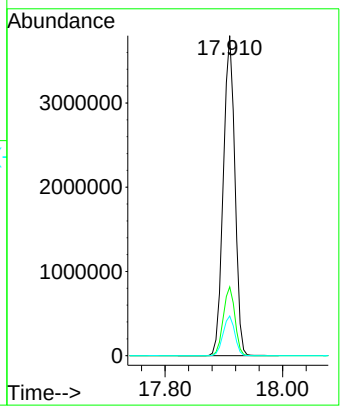


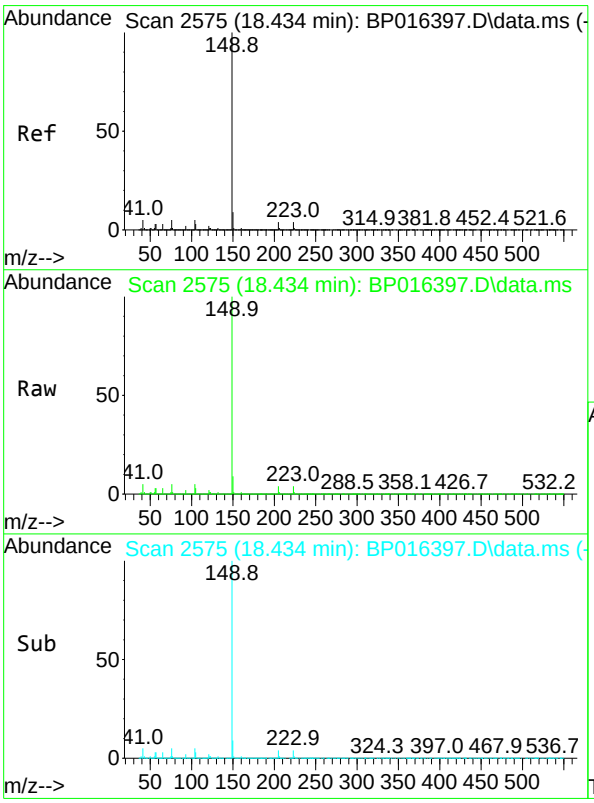
#73
Carbazole
Concen: 40.361 ng
RT: 17.910 min Scan# 24
Delta R.T. 0.000 min
Lab File: BP016397.D
Acq: 27 Jul 2023 13:20

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:167 Resp: 5194493

Ion	Ratio	Lower	Upper
167	100		
166	21.5	17.2	25.8
139	12.4	9.9	14.9

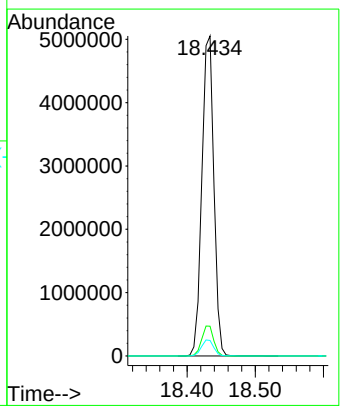


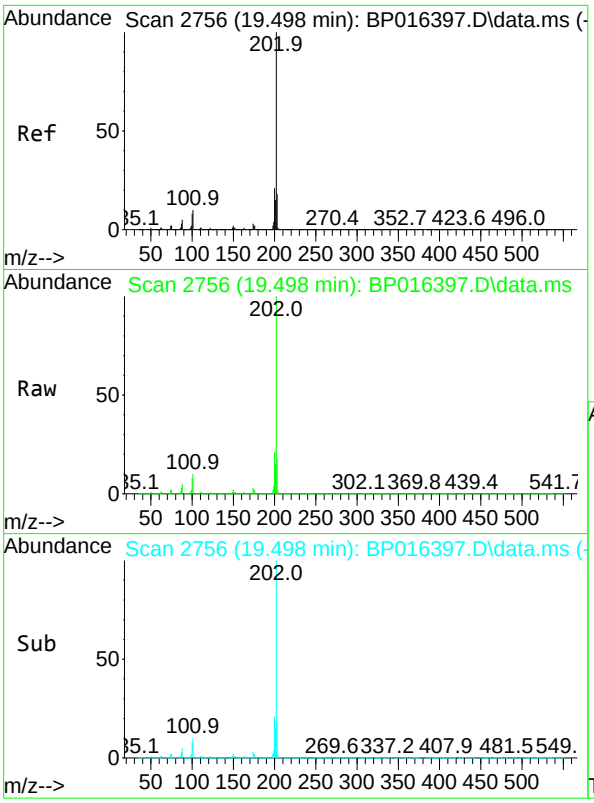


#74
Di-n-butylphthalate
Concen: 41.422 ng
RT: 18.434 min Scan# 2575
Delta R.T. 0.000 min
Lab File: BP016397.D
Acq: 27 Jul 2023 13:20

Tgt Ion:149 Resp: 6167689

Ion	Ratio	Lower	Upper
149	100		
150	9.3	7.4	11.2
104	4.8	3.8	5.8



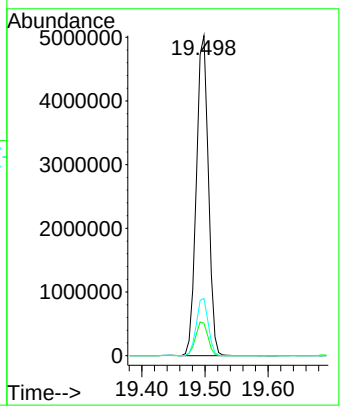


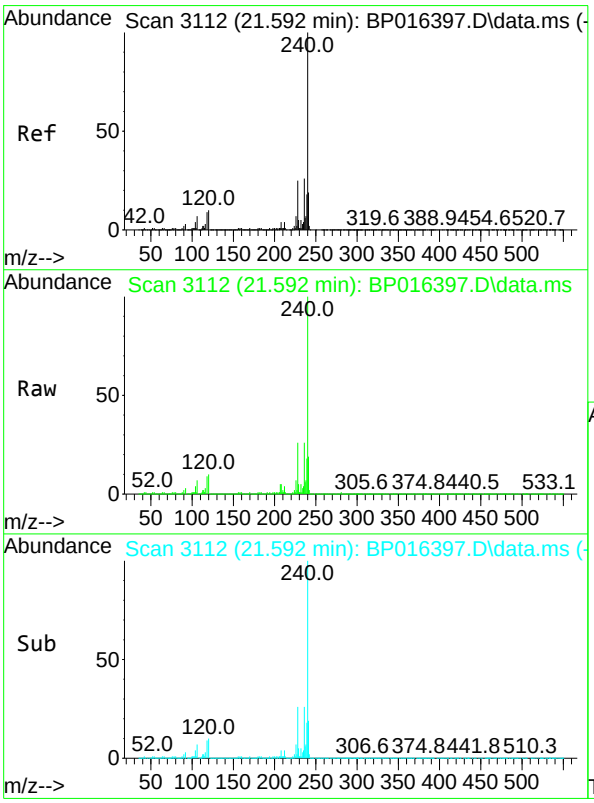
#75
Fluoranthene
Concen: 41.379 ng
RT: 19.498 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP016397.D
Acq: 27 Jul 2023 13:20

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:202 Resp: 6621225

Ion	Ratio	Lower	Upper
202	100		
101	10.2	0.0	30.2
203	17.9	0.0	37.9

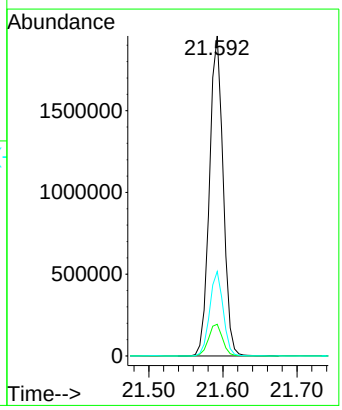


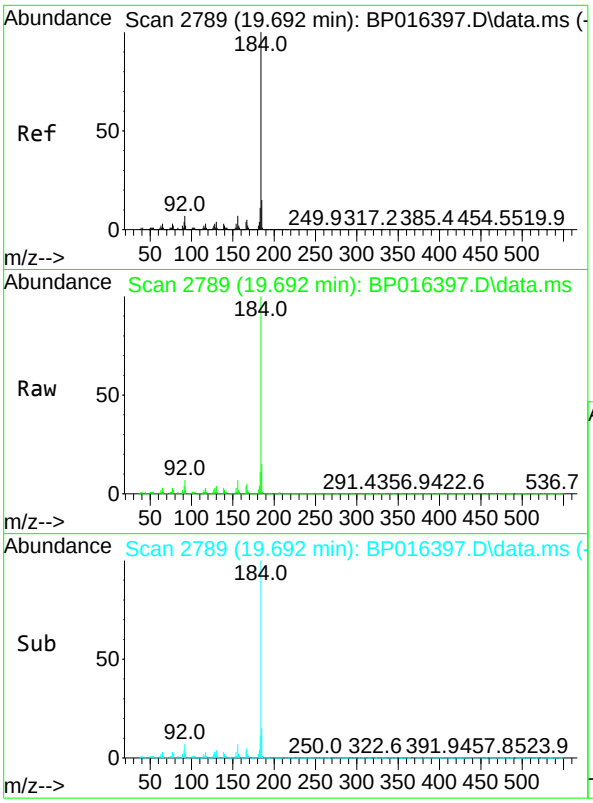


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.592 min Scan# 3112
Delta R.T. 0.000 min
Lab File: BP016397.D
Acq: 27 Jul 2023 13:20

Tgt Ion:240 Resp: 2514886

Ion	Ratio	Lower	Upper
240	100		
120	9.9	7.9	11.9
236	26.4	21.1	31.7



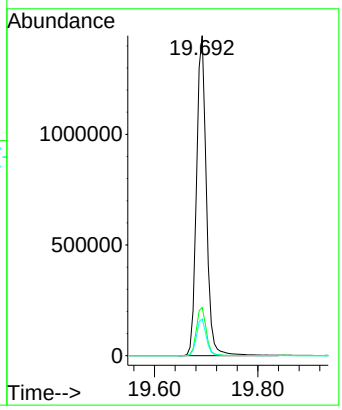


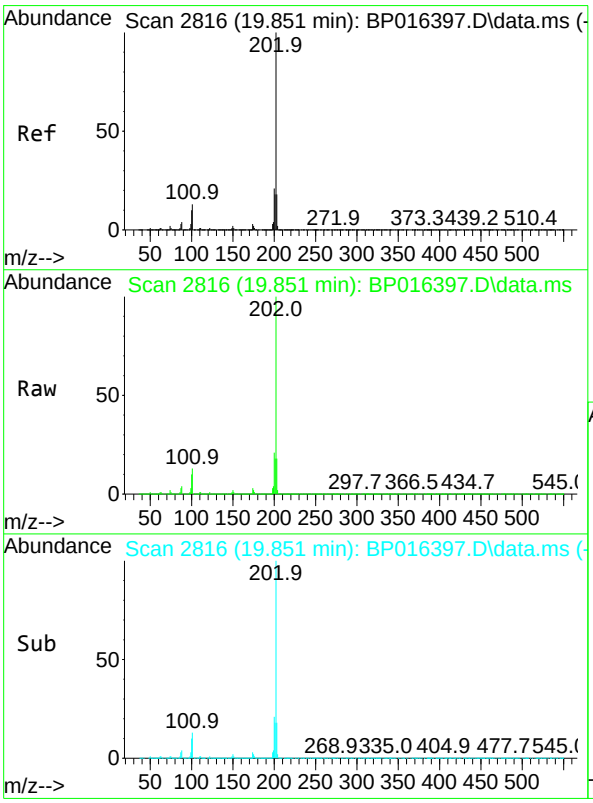
#77
Benzidine
Concen: 43.933 ng
RT: 19.692 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP016397.D
Acq: 27 Jul 2023 13:20

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:184 Resp: 1915587

Ion	Ratio	Lower	Upper
184	100		
185	15.0	12.0	18.0
183	11.5	9.2	13.8

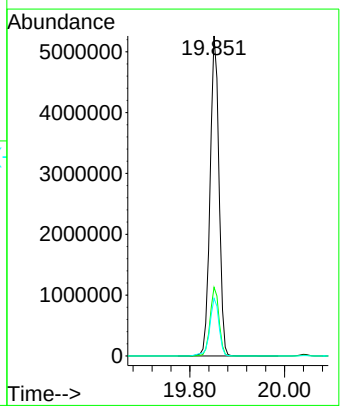


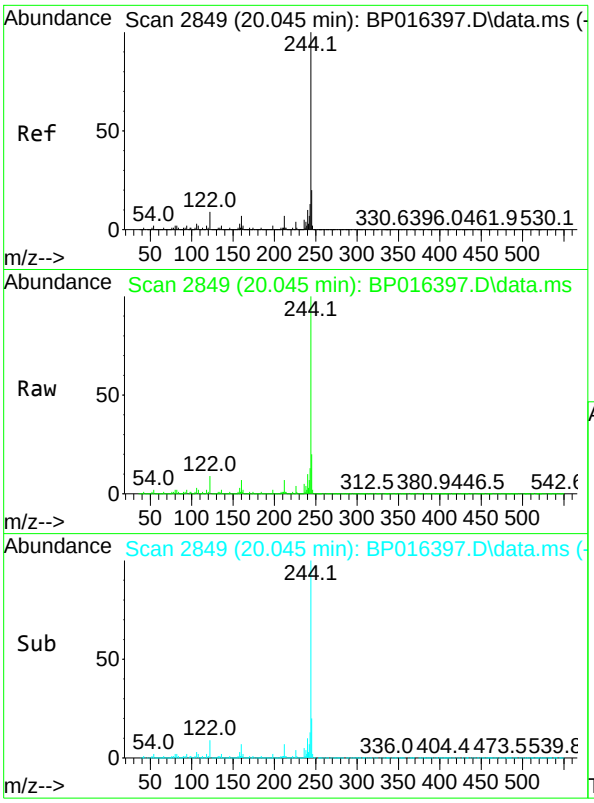


#78
Pyrene
Concen: 40.677 ng
RT: 19.851 min Scan# 2816
Delta R.T. 0.000 min
Lab File: BP016397.D
Acq: 27 Jul 2023 13:20

Tgt Ion:202 Resp: 6857594

Ion	Ratio	Lower	Upper
202	100		
200	21.4	17.1	25.7
203	18.0	14.4	21.6



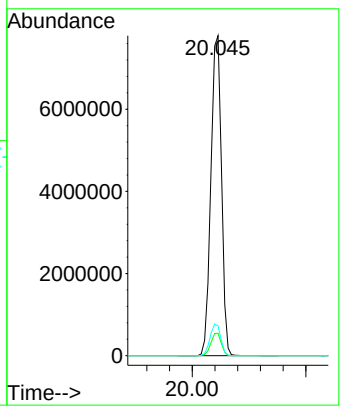


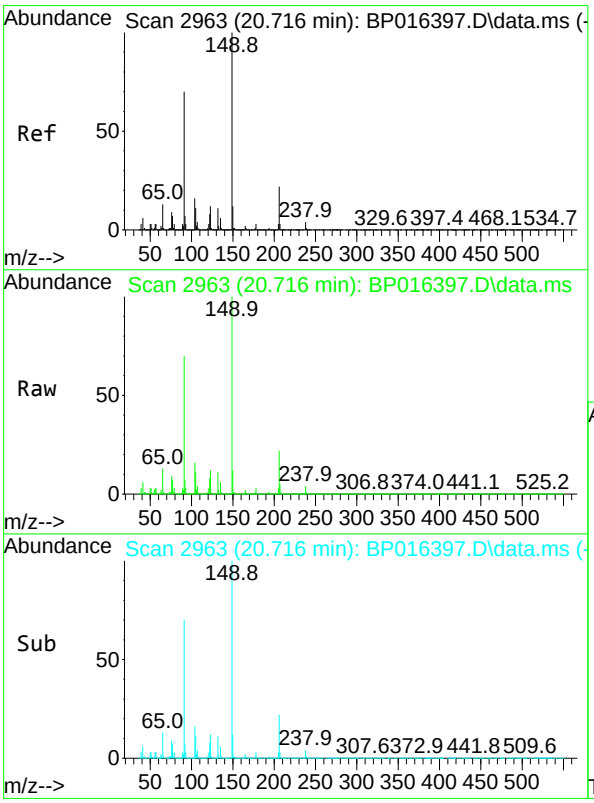
#79
Terphenyl-d14
Concen: 84.262 ng
RT: 20.045 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP016397.D
Acq: 27 Jul 2023 13:20

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:244 Resp:10031553

Ion	Ratio	Lower	Upper
244	100		
212	7.0	5.6	8.4
122	9.3	7.4	11.2

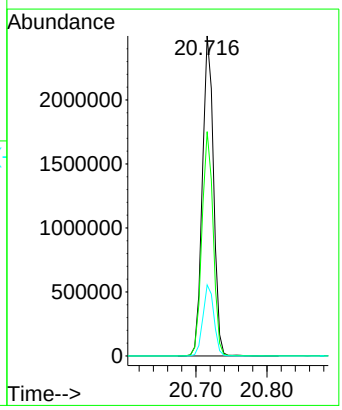


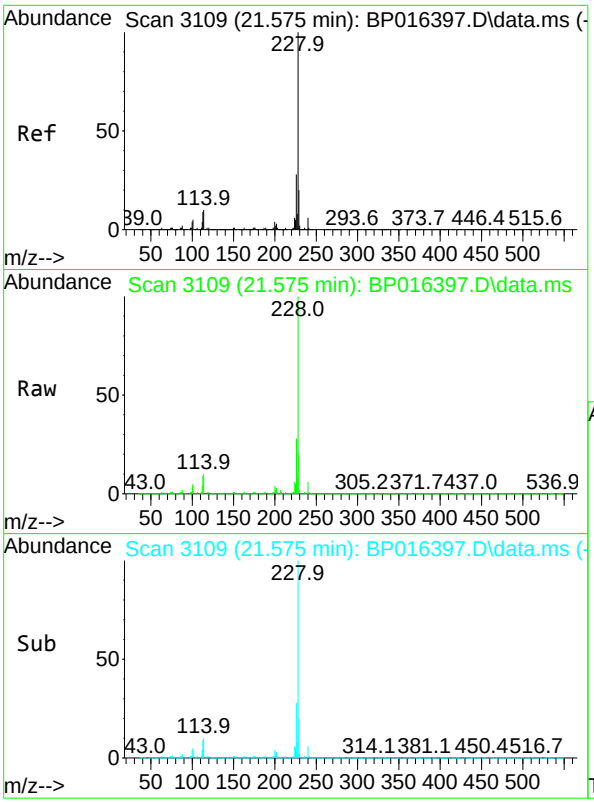


#80
Butylbenzylphthalate
Concen: 41.314 ng
RT: 20.716 min Scan# 2963
Delta R.T. 0.000 min
Lab File: BP016397.D
Acq: 27 Jul 2023 13:20

Tgt Ion:149 Resp: 2736249

Ion	Ratio	Lower	Upper
149	100		
91	70.1	56.1	84.1
206	22.2	17.8	26.6



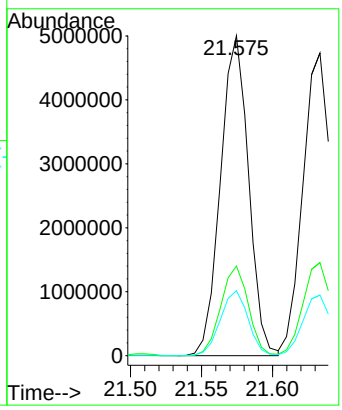


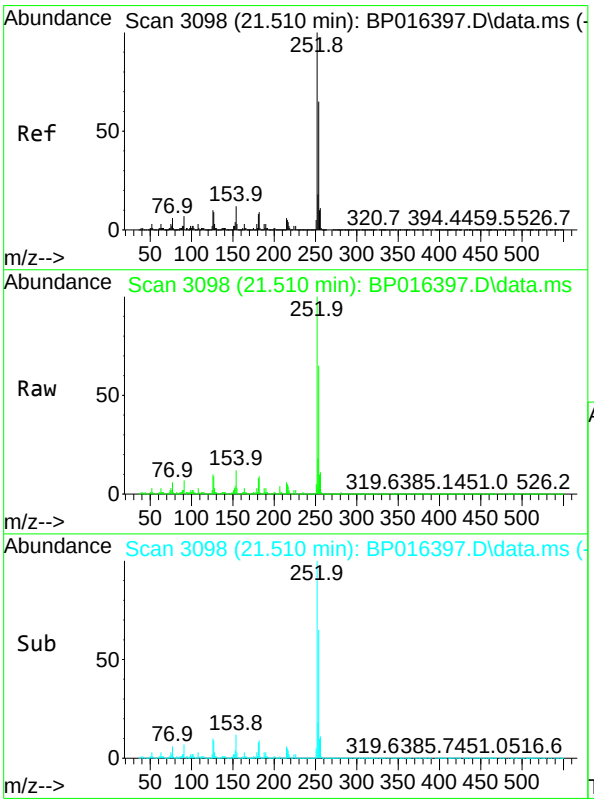
#81
Benzo(a)anthracene
Concen: 40.777 ng
RT: 21.575 min Scan# 31
Delta R.T. 0.000 min
Lab File: BP016397.D
Acq: 27 Jul 2023 13:20

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:228 Resp: 6880536

Ion	Ratio	Lower	Upper
228	100		
226	28.0	22.4	33.6
229	20.3	16.2	24.4

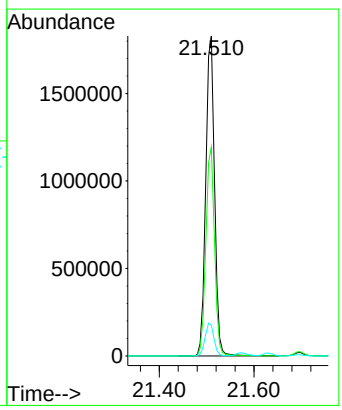


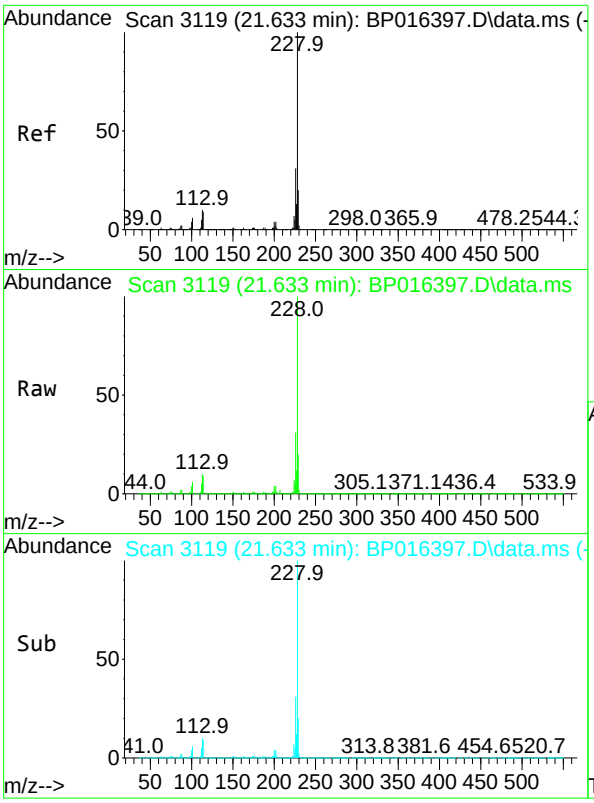


#82
3,3'-Dichlorobenzidine
Concen: 42.670 ng
RT: 21.510 min Scan# 3098
Delta R.T. 0.000 min
Lab File: BP016397.D
Acq: 27 Jul 2023 13:20

Tgt Ion:252 Resp: 2363533

Ion	Ratio	Lower	Upper
252	100		
254	65.2	52.2	78.2
126	9.7	7.8	11.6



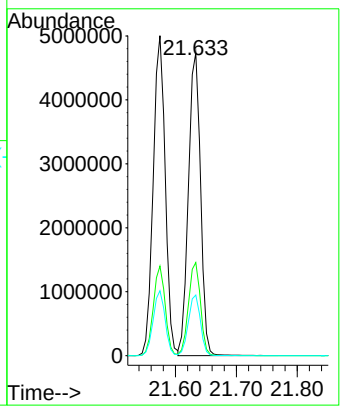


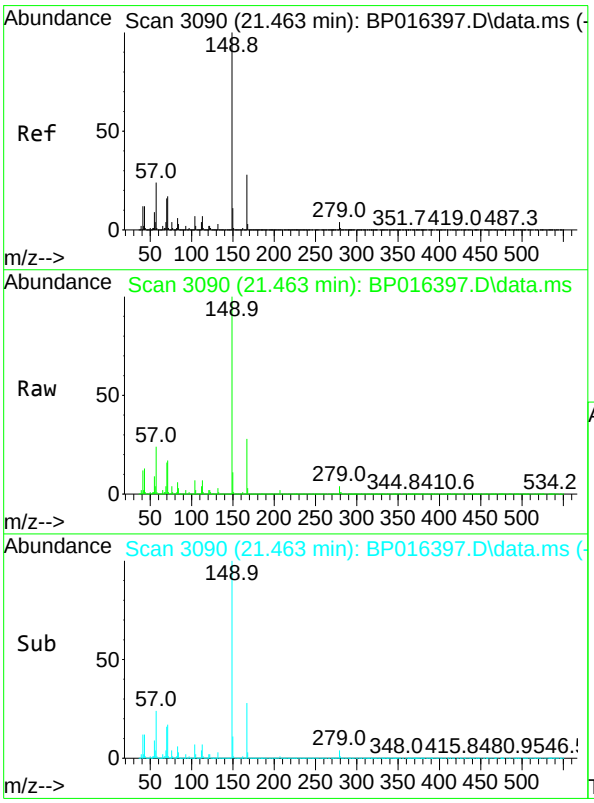
#83
Chrysene
Concen: 40.442 ng
RT: 21.633 min Scan# 3
Delta R.T. 0.000 min
Lab File: BP016397.D
Acq: 27 Jul 2023 13:20

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:228 Resp: 6516439

Ion	Ratio	Lower	Upper
228	100		
226	30.8	24.6	37.0
229	20.0	16.0	24.0

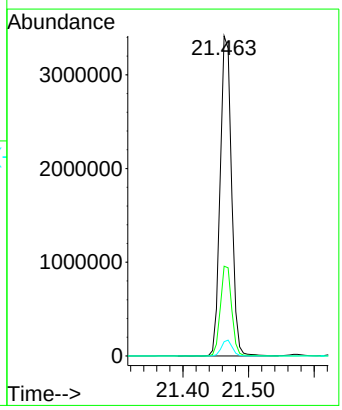


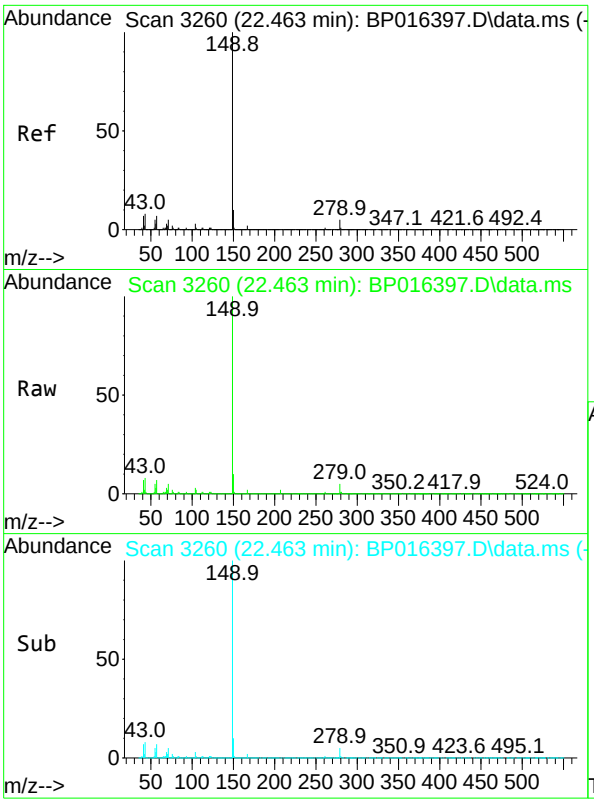


#84
Bis(2-ethylhexyl)phthalate
Concen: 41.014 ng
RT: 21.463 min Scan# 3090
Delta R.T. 0.000 min
Lab File: BP016397.D
Acq: 27 Jul 2023 13:20

Tgt Ion:149 Resp: 4078277

Ion	Ratio	Lower	Upper
149	100		
167	28.1	22.5	33.7
279	4.5	3.6	5.4



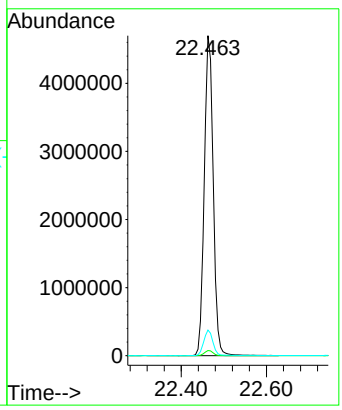


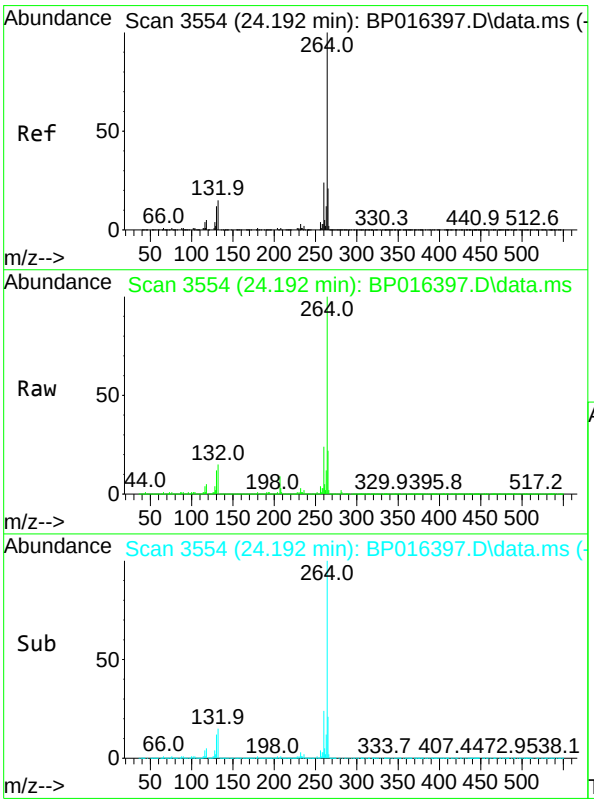
#85
Di-n-octyl phthalate
Concen: 40.943 ng
RT: 22.463 min Scan# 3
Delta R.T. 0.000 min
Lab File: BP016397.D
Acq: 27 Jul 2023 13:20

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:149 Resp: 6847092

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	8.2	6.6	9.8

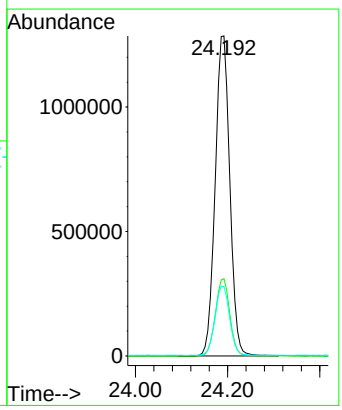


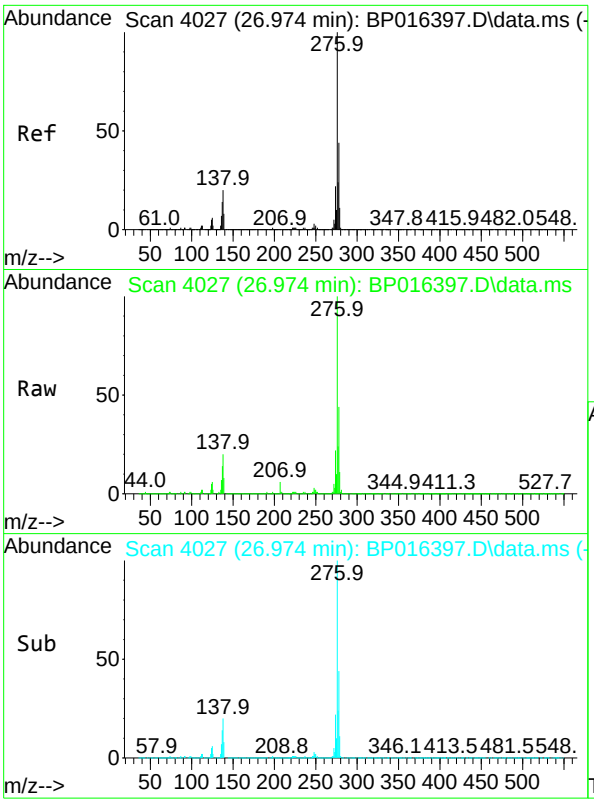


#86
Perylene-d12
Concen: 20.000 ng
RT: 24.192 min Scan# 3554
Delta R.T. 0.000 min
Lab File: BP016397.D
Acq: 27 Jul 2023 13:20

Tgt Ion:264 Resp: 2825363

Ion	Ratio	Lower	Upper
264	100		
260	24.1	19.3	28.9
265	21.7	17.4	26.0



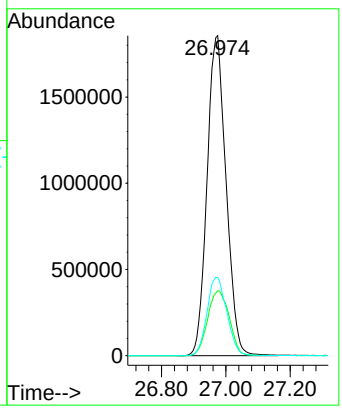


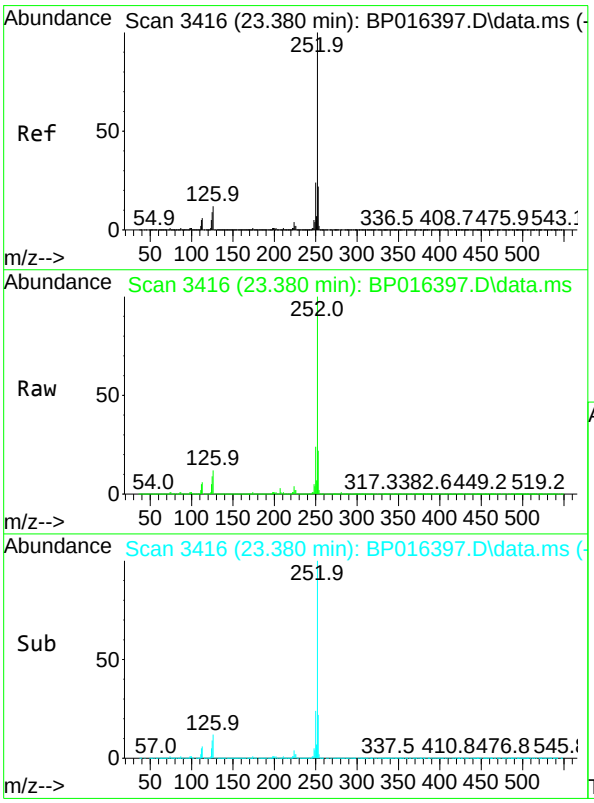
#87
Indeno(1,2,3-cd)pyrene
Concen: 40.047 ng
RT: 26.974 min Scan# 4
Delta R.T. 0.000 min
Lab File: BP016397.D
Acq: 27 Jul 2023 13:20

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:276 Resp: 7628159

Ion	Ratio	Lower	Upper
276	100		
138	23.0	18.4	27.6
277	25.5	20.4	30.6

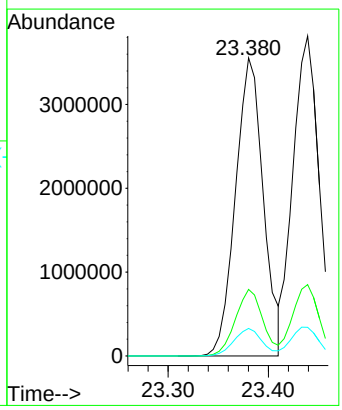


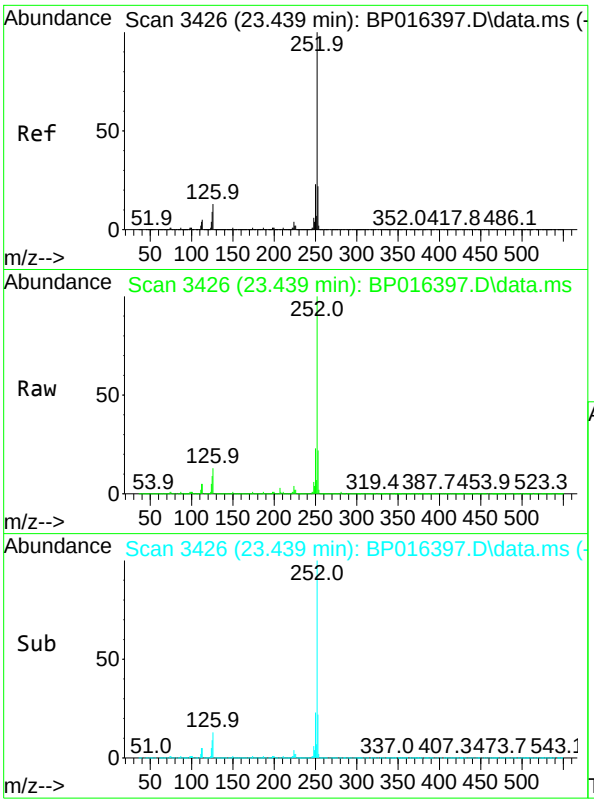


#88
Benzo(b)fluoranthene
Concen: 41.923 ng
RT: 23.380 min Scan# 3416
Delta R.T. 0.000 min
Lab File: BP016397.D
Acq: 27 Jul 2023 13:20

Tgt Ion:252 Resp: 6865469

Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.8	26.8
125	9.3	7.4	11.2



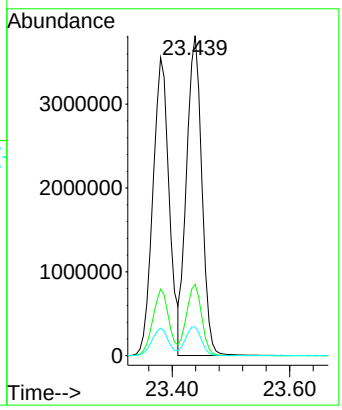


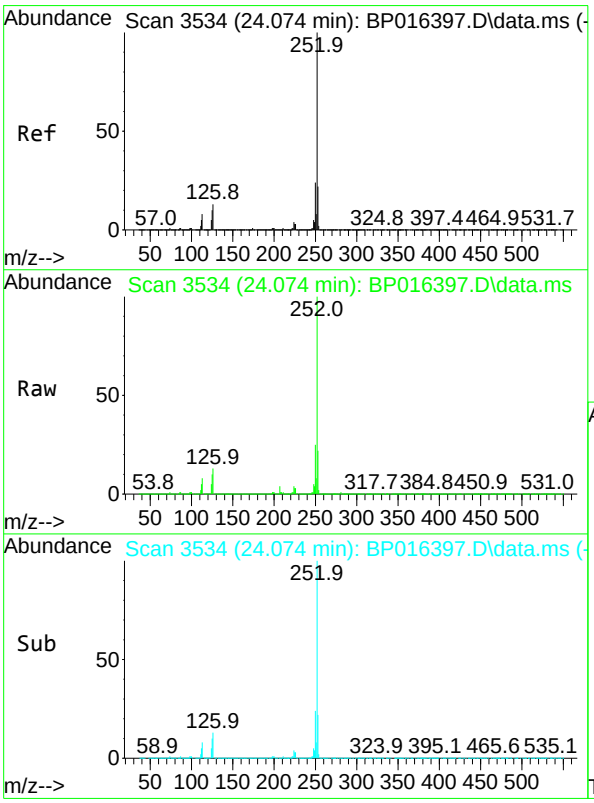
#89
Benzo(k)fluoranthene
Concen: 41.446 ng
RT: 23.439 min Scan# 3
Delta R.T. 0.000 min
Lab File: BP016397.D
Acq: 27 Jul 2023 13:20

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:252 Resp: 6903342

Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.8	26.8
125	8.9	7.1	10.7

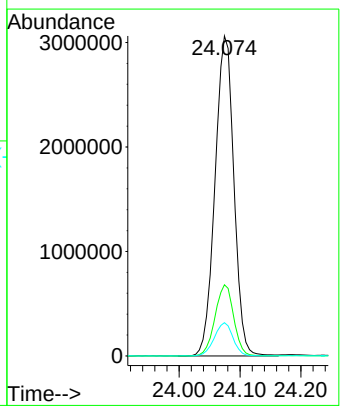


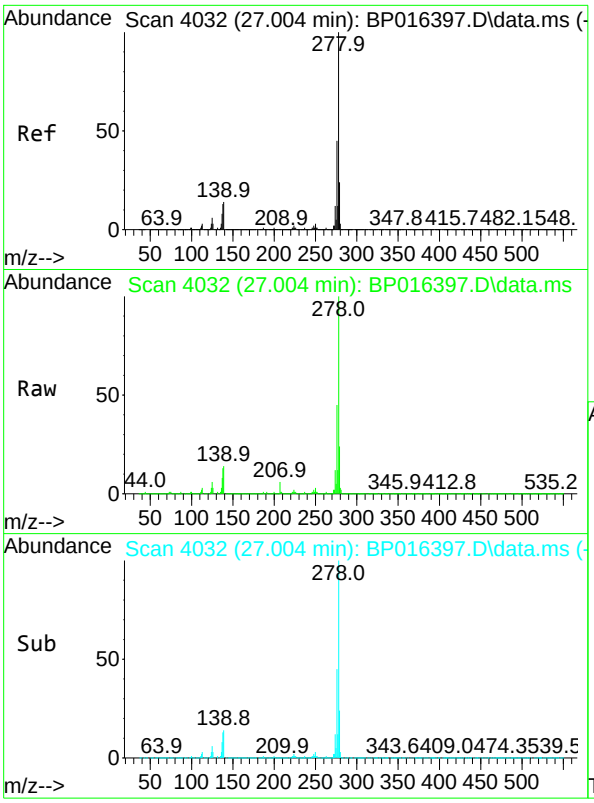


#90
Benzo(a)pyrene
Concen: 41.577 ng
RT: 24.074 min Scan# 3534
Delta R.T. 0.000 min
Lab File: BP016397.D
Acq: 27 Jul 2023 13:20

Tgt Ion:252 Resp: 6595575

Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.8	26.6
125	10.4	8.3	12.5



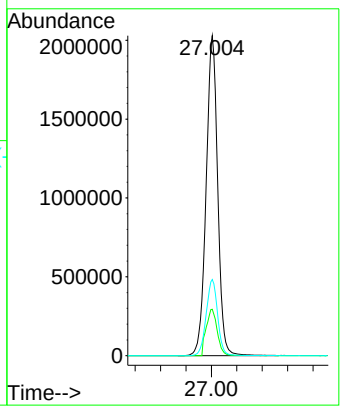


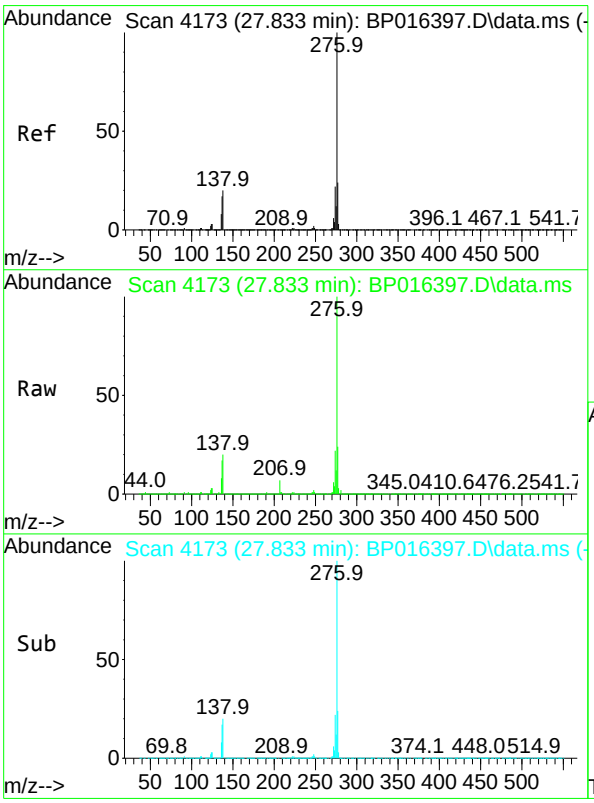
#91
Dibenzo(a,h)anthracene
Concen: 40.383 ng
RT: 27.004 min Scan# 4
Delta R.T. 0.000 min
Lab File: BP016397.D
Acq: 27 Jul 2023 13:20

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:278 Resp: 6414955

Ion	Ratio	Lower	Upper
278	100		
139	14.5	11.6	17.4
279	23.8	19.0	28.6

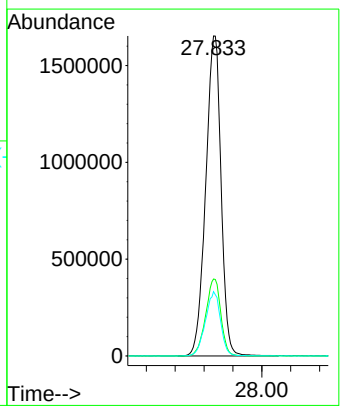




#92
Benzo(g,h,i)perylene
Concen: 39.639 ng
RT: 27.833 min Scan# 4173
Delta R.T. 0.000 min
Lab File: BP016397.D
Acq: 27 Jul 2023 13:20

Tgt Ion:276 Resp: 6067960

Ion	Ratio	Lower	Upper
276	100		
277	24.0	19.2	28.8
138	20.1	16.1	24.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP072723\
Data File : BP016398.D
Acq On : 27 Jul 2023 13:55
Operator : MA/JU
Sample : SSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Quant Time: Jul 27 17:36:10 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP072723.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jul 27 17:32:49 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	8.093	152	493294	20.000	ng		0.00
21) Naphthalene-d8	10.928	136	1965031	20.000	ng		0.00
39) Acenaphthene-d10	14.740	164	1229399	20.000	ng		0.00
64) Phenanthrene-d10	17.498	188	2737145	20.000	ng		0.00
76) Chrysene-d12	21.592	240	2673393	20.000	ng		0.00
86) Perylene-d12	24.192	264	3090129	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.605	112	2825573	93.447	ng		0.00
7) Phenol-d6	7.228	99	3906737	94.262	ng		0.00
23) Nitrobenzene-d5	9.293	82	3394522	96.701	ng		0.00
42) 2,4,6-Tribromophenol	16.228	330	1887243	104.347	ng		0.00
45) 2-Fluorobiphenyl	13.363	172	8095263	94.403	ng		0.00
79) Terphenyl-d14	20.045	244	11875777	93.838	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.458	88	531736	45.089	ng		99
3) Pyridine	3.876	79	1635899	47.146	ng		98
4) n-Nitrosodimethylamine	3.805	42	603983	45.443	ng		100
6) Aniline	7.428	93	2422149	47.315	ng		99
8) 2-Chlorophenol	7.646	128	1500888	47.341	ng		98
9) Benzaldehyde	7.246	77	859274	46.620	ng		99
10) Phenol	7.258	94	1882753	46.778	ng		99
11) bis(2-Chloroethyl)ether	7.522	93	1518260	46.405	ng		99
12) 1,3-Dichlorobenzene	7.975	146	1596225	46.900	ng		98
13) 1,4-Dichlorobenzene	8.128	146	1621833	46.977	ng		99
14) 1,2-Dichlorobenzene	8.446	146	1562572	47.008	ng		99
15) Benzyl Alcohol	8.346	79	1352316	47.760	ng		100
16) 2,2'-oxybis(1-Chloropr...	8.628	45	1685225	45.419	ng		99
17) 2-Methylphenol	8.522	107	1374131	47.373	ng		99
18) Hexachloroethane	9.169	117	569156	46.218	ng		100
19) n-Nitroso-di-n-propyla...	8.916	70	1196014	46.064	ng		99
20) 3+4-Methylphenols	8.863	107	1889963	47.975	ng		99
22) Acetophenone	8.940	105	2347229	47.310	ng	#	100
24) Nitrobenzene	9.334	77	1723310	47.797	ng		100
25) Isophorone	9.852	82	3394667	47.899	ng		100
26) 2-Nitrophenol	10.040	139	760854	48.899	ng		100
27) 2,4-Dimethylphenol	10.075	122	1535739	48.437	ng		98
28) bis(2-Chloroethoxy)met...	10.340	93	2059520	47.442	ng		99
29) 2,4-Dichlorophenol	10.557	162	1507119	50.792	ng		100
30) 1,2,4-Trichlorobenzene	10.775	180	1580646	49.181	ng		99
31) Naphthalene	10.981	128	4905789	47.729	ng		99
32) Benzoic acid	10.210	122	994520	47.834	ng		98
33) 4-Chloroaniline	11.105	127	2250628	48.542	ng		99
34) Hexachlorobutadiene	11.216	225	965948	50.765	ng		99
35) Caprolactam	11.922	113	539409	49.739	ng		97
36) 4-Chloro-3-methylphenol	12.193	107	1623509	49.222	ng		98
37) 2-Methylnaphthalene	12.575	142	3610214	48.349	ng		99
38) 1-Methylnaphthalene	12.793	142	3394235	48.486	ng		99
40) 1,2,4,5-Tetrachloroben...	12.922	216	1862530	49.853	ng		100
41) Hexachlorocyclopentadiene	12.875	237	1014831	54.084	ng		100
43) 2,4,6-Trichlorophenol	13.163	196	1242844	51.846	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP072723\
Data File : BP016398.D
Acq On : 27 Jul 2023 13:55
Operator : MA/JU
Sample : SSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Quant Time: Jul 27 17:36:10 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP072723.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jul 27 17:32:49 2023
Response via : Initial Calibration

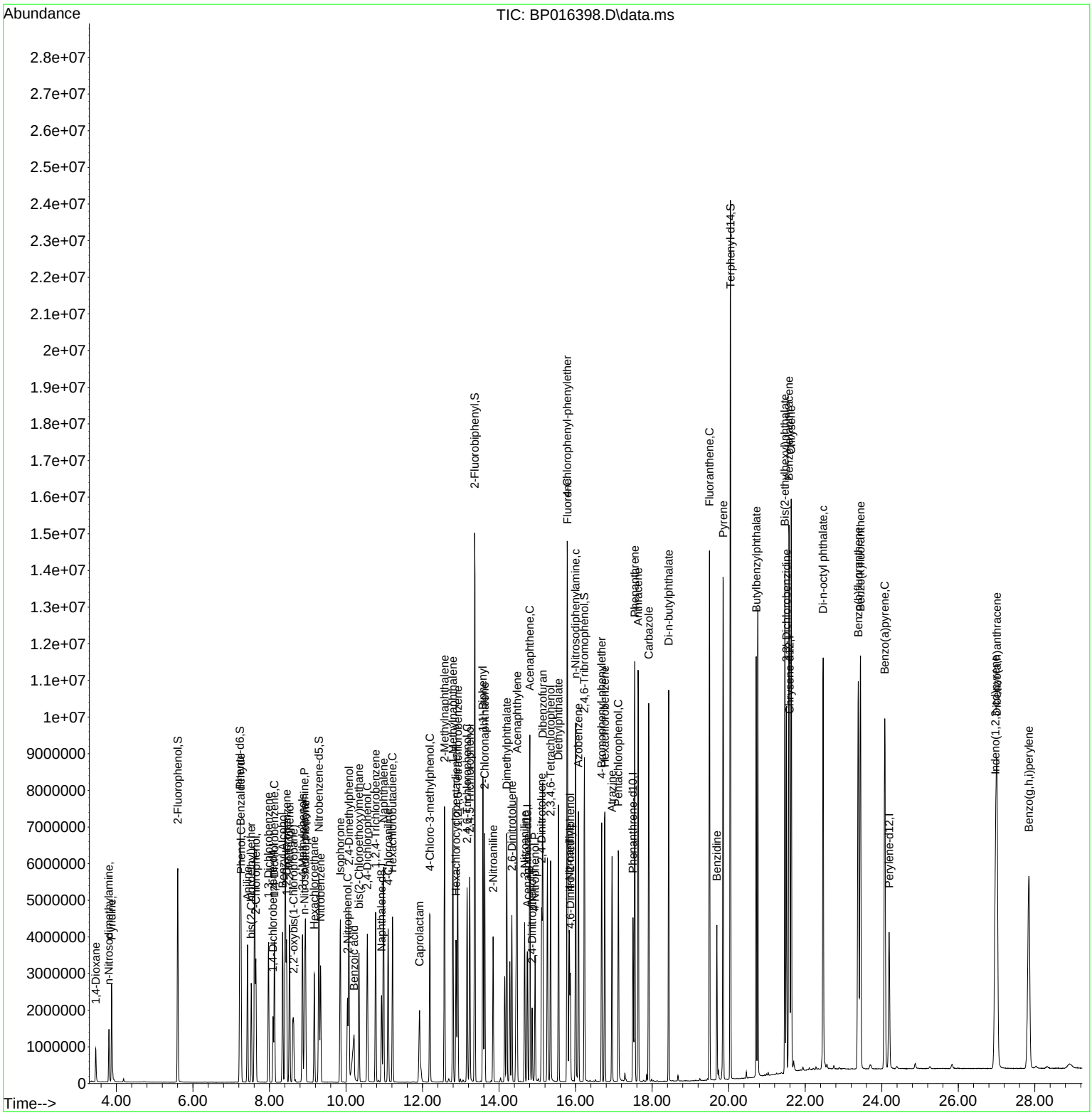
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	13.234	196	1503078	51.682	ng	99
46) 1,1'-Biphenyl	13.575	154	4454760	47.535	ng	100
47) 2-Chloronaphthalene	13.622	162	3366548	47.616	ng	99
48) 2-Nitroaniline	13.846	65	994662	49.909	ng	95
49) Acenaphthylene	14.469	152	5609755	47.820	ng	100
50) Dimethylphthalate	14.198	163	4595007	47.963	ng	99
51) 2,6-Dinitrotoluene	14.334	165	991092	50.498	ng	99
52) Acenaphthene	14.804	154	3325167	47.667	ng	99
53) 3-Nitroaniline	14.669	138	1113425	50.180	ng	99
54) 2,4-Dinitrophenol	14.863	184	398663	47.079	ng	96
55) Dibenzofuran	15.140	168	5443019	47.575	ng	99
56) 4-Nitrophenol	14.940	139	886073	51.014	ng	98
57) 2,4-Dinitrotoluene	15.110	165	1338402	52.326	ng	98
58) Fluorene	15.787	166	4243242	47.209	ng	100
59) 2,3,4,6-Tetrachlorophenol	15.345	232	1249111	52.211	ng	99
60) Diethylphthalate	15.551	149	4518160	47.456	ng	100
61) 4-Chlorophenyl-phenyle...	15.781	204	2216722	48.873	ng	97
62) 4-Nitroaniline	15.840	138	1101259	50.011	ng	97
63) Azobenzene	16.075	77	4105439	45.668	ng	99
65) 4,6-Dinitro-2-methylph...	15.863	198	622396	48.489	ng	95
66) n-Nitrosodiphenylamine	15.998	169	3849376	47.720	ng	99
67) 4-Bromophenyl-phenylether	16.681	248	1473241	50.831	ng	99
68) Hexachlorobenzene	16.763	284	1651862	51.108	ng	97
69) Atrazine	16.951	200	1183531	49.335	ng	100
70) Pentachlorophenol	17.116	266	1173526	52.467	ng	99
71) Phenanthrene	17.545	178	6870489	47.272	ng	100
72) Anthracene	17.634	178	7024399	48.064	ng	100
73) Carbazole	17.910	167	6507527	47.494	ng	99
74) Di-n-butylphthalate	18.434	149	7748598	48.881	ng	100
75) Fluoranthene	19.498	202	8363408	49.095	ng	99
77) Benzidine	19.692	184	2108796	45.497	ng	99
78) Pyrene	19.857	202	8625275	48.129	ng	100
80) Butylbenzylphthalate	20.722	149	3519337	49.987	ng	96
81) Benzo(a)anthracene	21.575	228	8666122	48.314	ng	100
82) 3,3'-Dichlorobenzidine	21.510	252	3016195	51.224	ng	99
83) Chrysene	21.633	228	8152586	47.597	ng	99
84) Bis(2-ethylhexyl)phtha...	21.469	149	5206934	49.260	ng	99
85) Di-n-octyl phthalate	22.469	149	8801233	49.508	ng	99
87) Indeno(1,2,3-cd)pyrene	26.974	276	10079555	48.382	ng	100
88) Benzo(b)fluoranthene	23.386	252	8963426	50.045	ng	100
89) Benzo(k)fluoranthene	23.445	252	8844298	48.549	ng	99
90) Benzo(a)pyrene	24.080	252	8581829	49.463	ng	100
91) Dibenzo(a,h)anthracene	27.010	278	8392067	48.303	ng	99
92) Benzo(g,h,i)perylene	27.845	276	7976748	47.644	ng	99

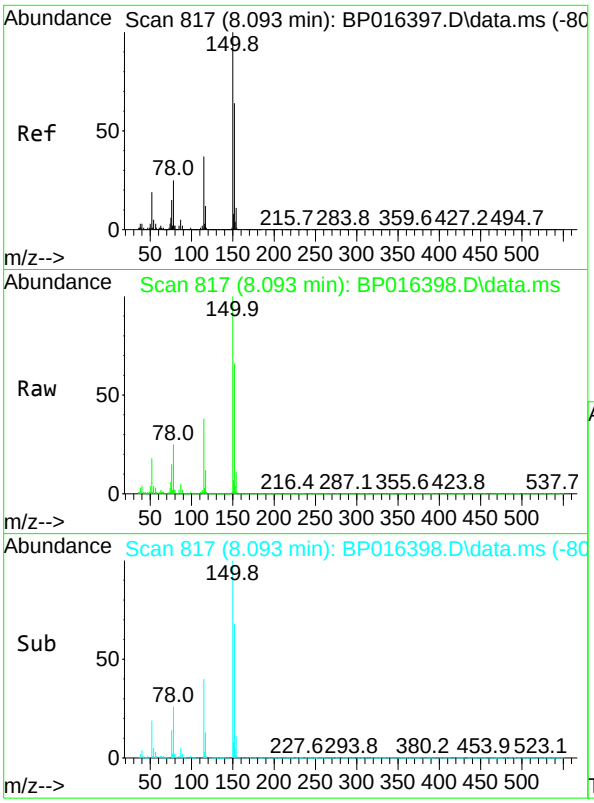
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP072723\
Data File : BP016398.D
Acq On : 27 Jul 2023 13:55
Operator : MA/JU
Sample : SSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Quant Time: Jul 27 17:36:10 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP072723.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jul 27 17:32:49 2023
Response via : Initial Calibration



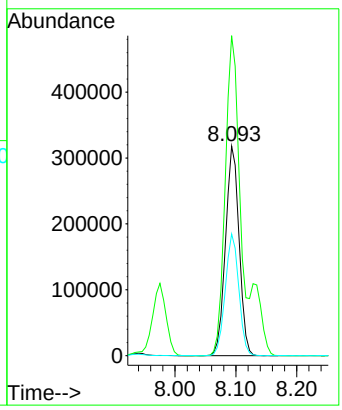


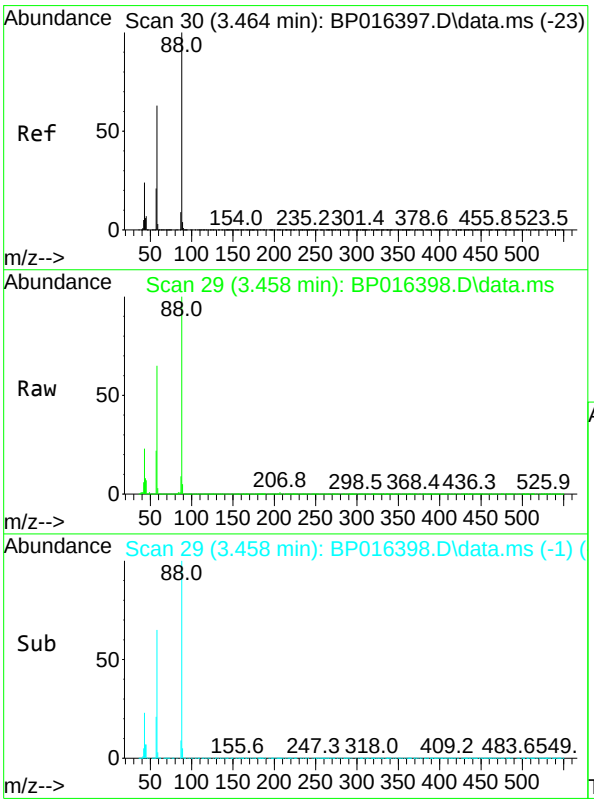
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.093 min Scan# 81
Delta R.T. -0.000 min
Lab File: BP016398.D
Acq: 27 Jul 2023 13:55

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:152 Resp: 493294

Ion	Ratio	Lower	Upper
152	100		
150	152.7	124.9	187.3
115	58.1	46.8	70.2

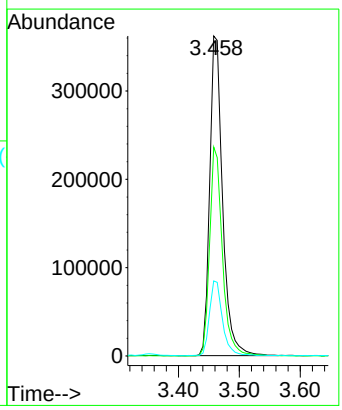


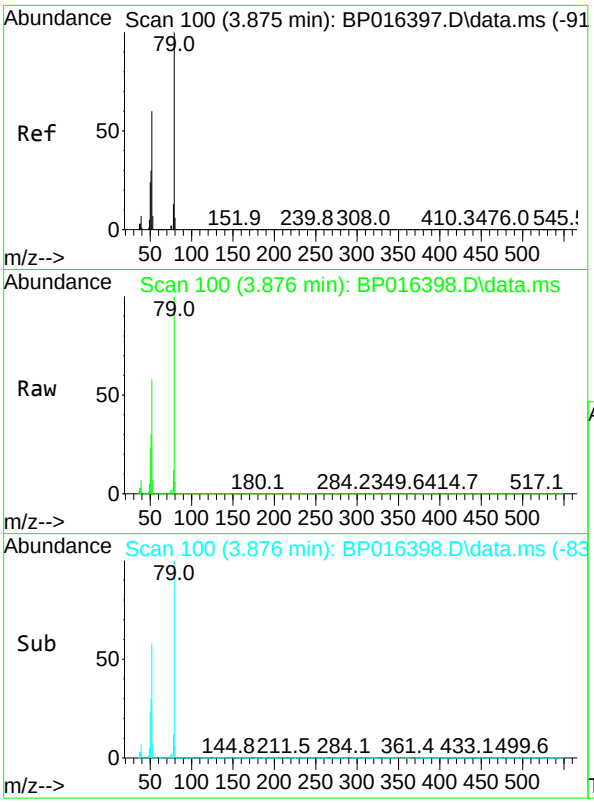


#2
1,4-Dioxane
Concen: 45.089 ng
RT: 3.458 min Scan# 29
Delta R.T. -0.006 min
Lab File: BP016398.D
Acq: 27 Jul 2023 13:55

Tgt Ion: 88 Resp: 531736

Ion	Ratio	Lower	Upper
88	100		
58	65.0	51.7	77.5
43	23.6	19.2	28.8



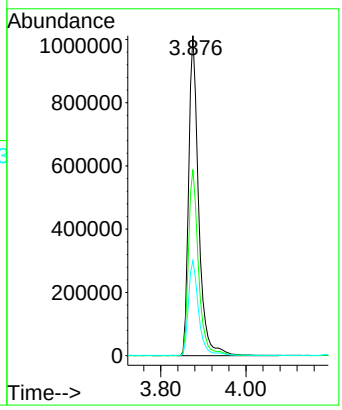


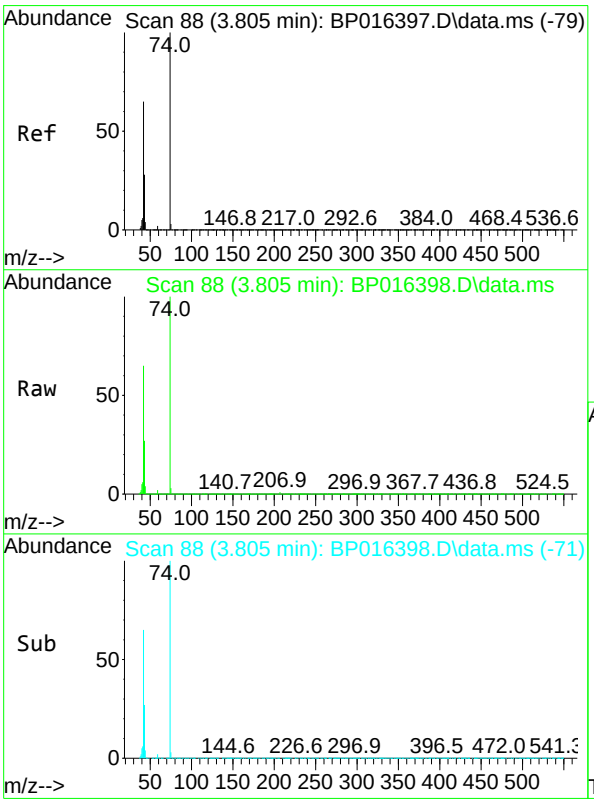
#3
Pyridine
Concen: 47.146 ng
RT: 3.876 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP016398.D
Acq: 27 Jul 2023 13:55

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion: 79 Resp: 1635899

Ion	Ratio	Lower	Upper
79	100		
52	58.2	47.9	71.9
51	29.7	24.4	36.6

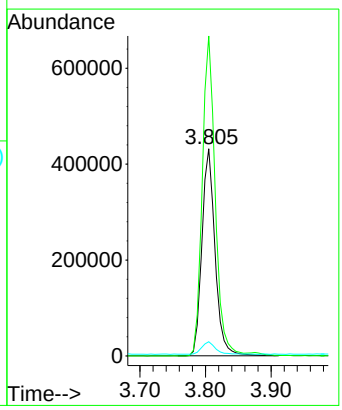


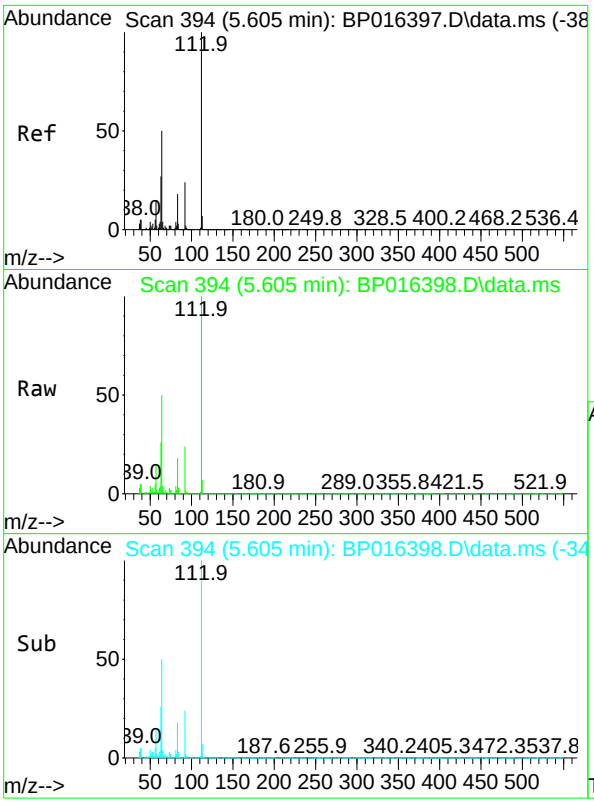


#4
n-Nitrosodimethylamine
Concen: 45.443 ng
RT: 3.805 min Scan# 88
Delta R.T. 0.000 min
Lab File: BP016398.D
Acq: 27 Jul 2023 13:55

Tgt Ion: 42 Resp: 603983

Ion	Ratio	Lower	Upper
42	100		
74	154.4	123.8	185.8
44	6.9	5.5	8.3



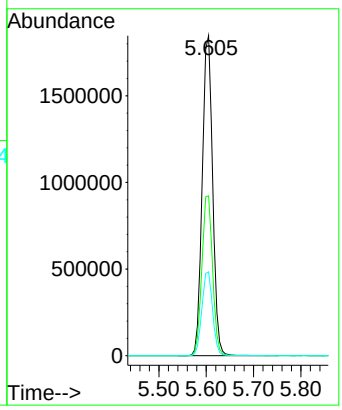


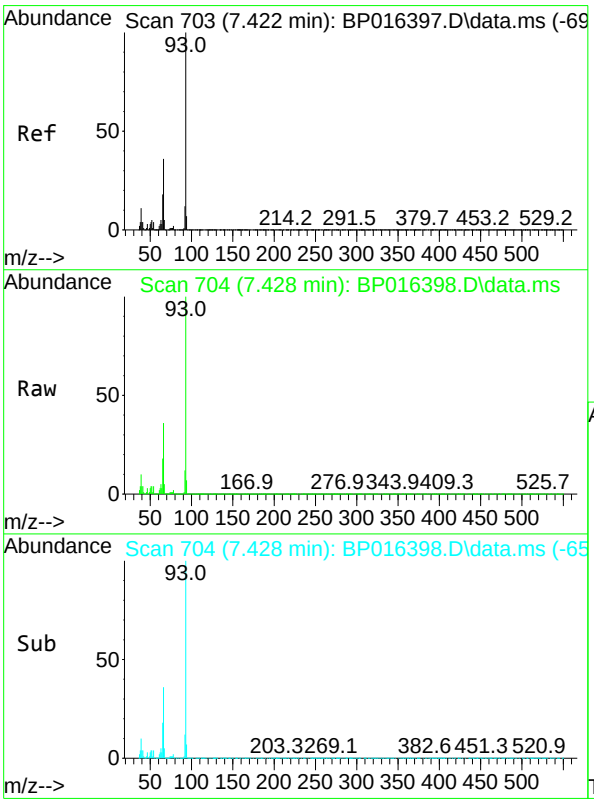
#5
2-Fluorophenol
Concen: 93.447 ng
RT: 5.605 min Scan# 3
Delta R.T. 0.000 min
Lab File: BP016398.D
Acq: 27 Jul 2023 13:55

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:112 Resp: 2825573

Ion	Ratio	Lower	Upper
112	100		
64	50.0	40.0	60.0
63	26.2	21.2	31.8

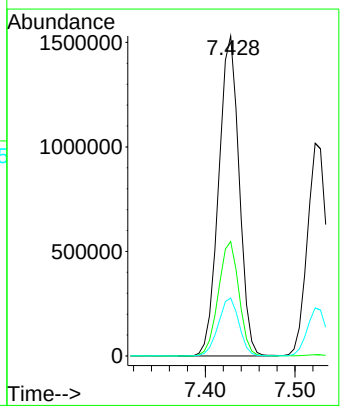


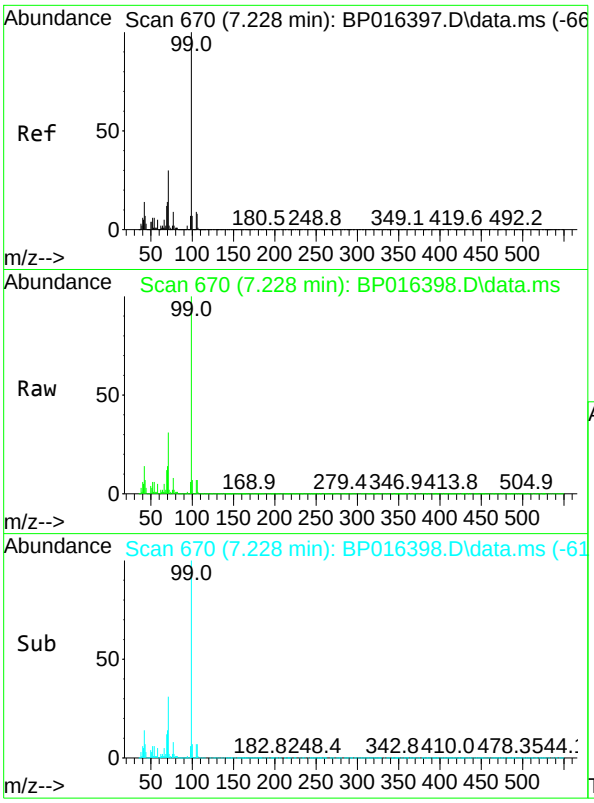


#6
Aniline
Concen: 47.315 ng
RT: 7.428 min Scan# 704
Delta R.T. 0.006 min
Lab File: BP016398.D
Acq: 27 Jul 2023 13:55

Tgt Ion: 93 Resp: 2422149

Ion	Ratio	Lower	Upper
93	100		
66	35.7	28.9	43.3
65	18.1	14.7	22.1



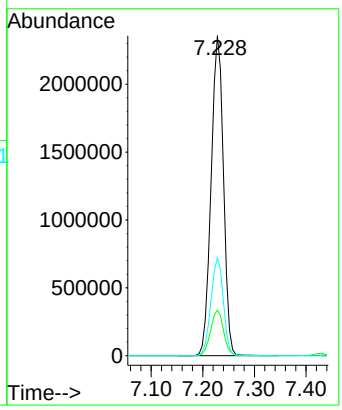


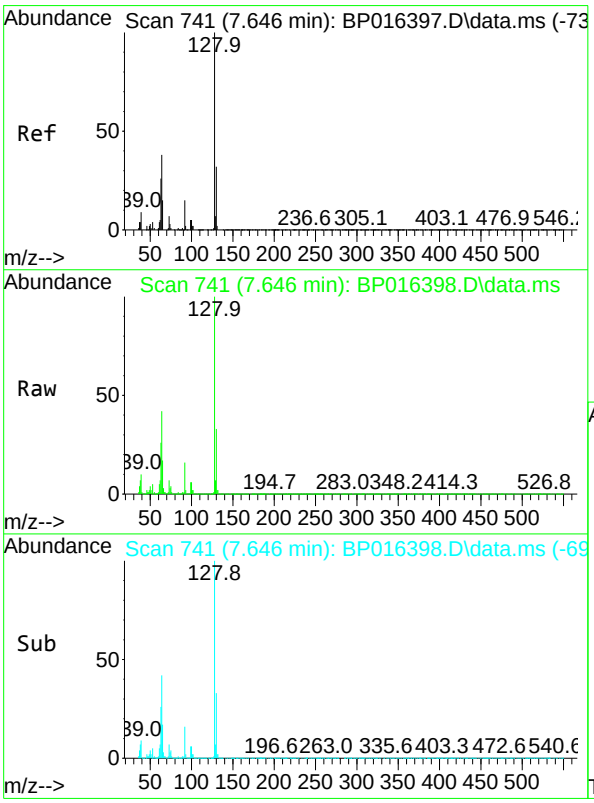
#7
Phenol-d6
Concen: 94.262 ng
RT: 7.228 min Scan# 6
Delta R.T. 0.000 min
Lab File: BP016398.D
Acq: 27 Jul 2023 13:55

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion: 99 Resp: 3906737

Ion	Ratio	Lower	Upper
99	100		
42	14.2	11.6	17.4
71	30.5	24.3	36.5

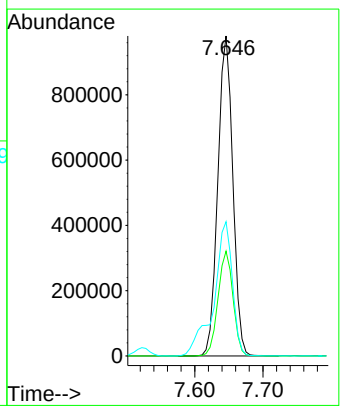


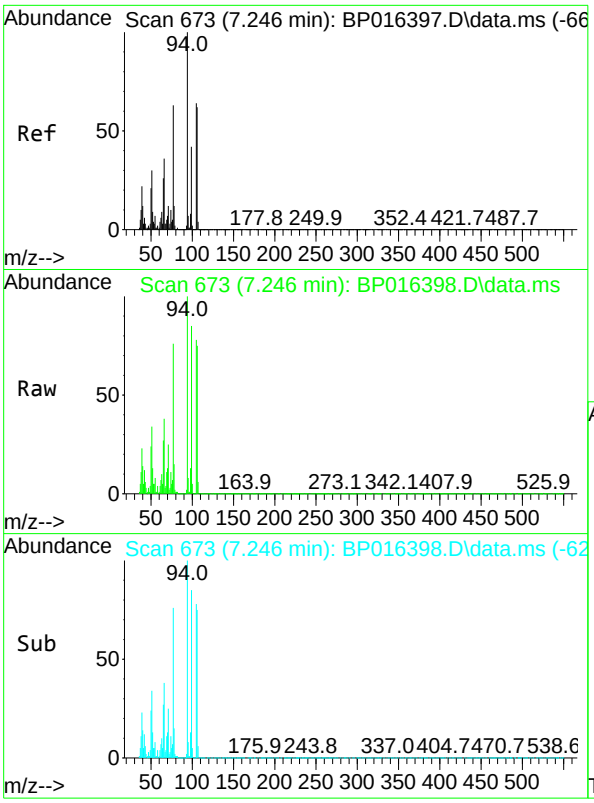


#8
2-Chlorophenol
Concen: 47.341 ng
RT: 7.646 min Scan# 741
Delta R.T. 0.000 min
Lab File: BP016398.D
Acq: 27 Jul 2023 13:55

Tgt Ion:128 Resp: 1500888

Ion	Ratio	Lower	Upper
128	100		
130	32.8	11.6	51.6
64	42.0	20.6	60.6



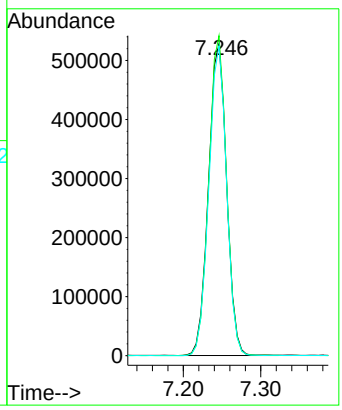


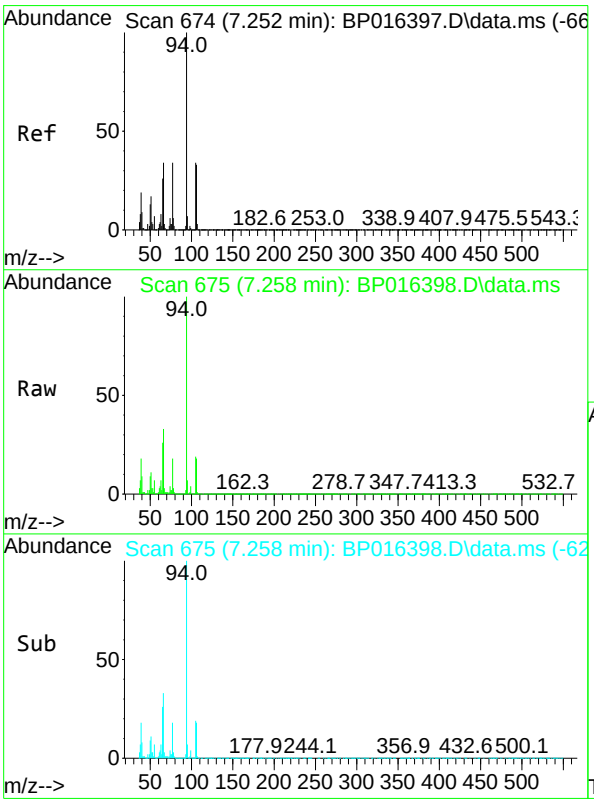
#9
Benzaldehyde
Concen: 46.620 ng
RT: 7.246 min Scan# 6
Delta R.T. -0.000 min
Lab File: BP016398.D
Acq: 27 Jul 2023 13:55

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion: 77 Resp: 859274

Ion	Ratio	Lower	Upper
77	100		
105	102.5	81.9	121.9
106	99.2	78.8	118.8

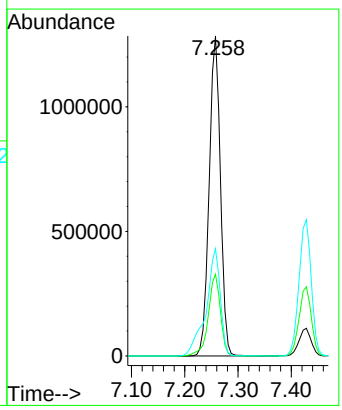


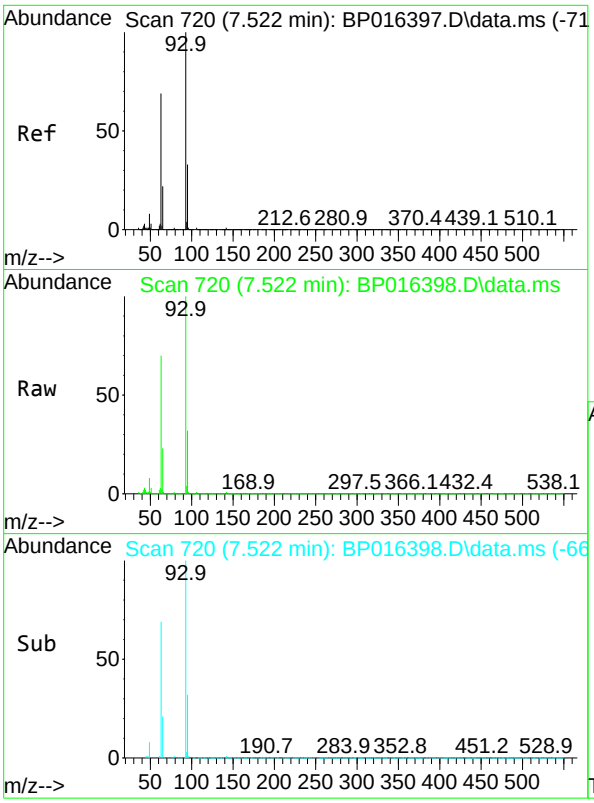


#10
Phenol
Concen: 46.778 ng
RT: 7.258 min Scan# 675
Delta R.T. 0.006 min
Lab File: BP016398.D
Acq: 27 Jul 2023 13:55

Tgt Ion: 94 Resp: 1882753

Ion	Ratio	Lower	Upper
94	100		
65	25.6	5.9	45.9
66	33.5	14.3	54.3



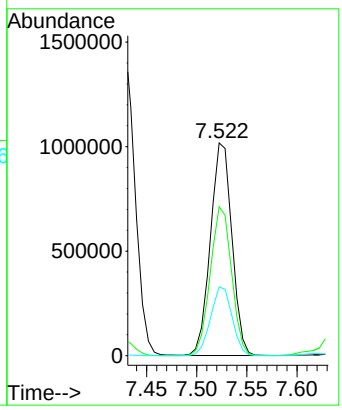


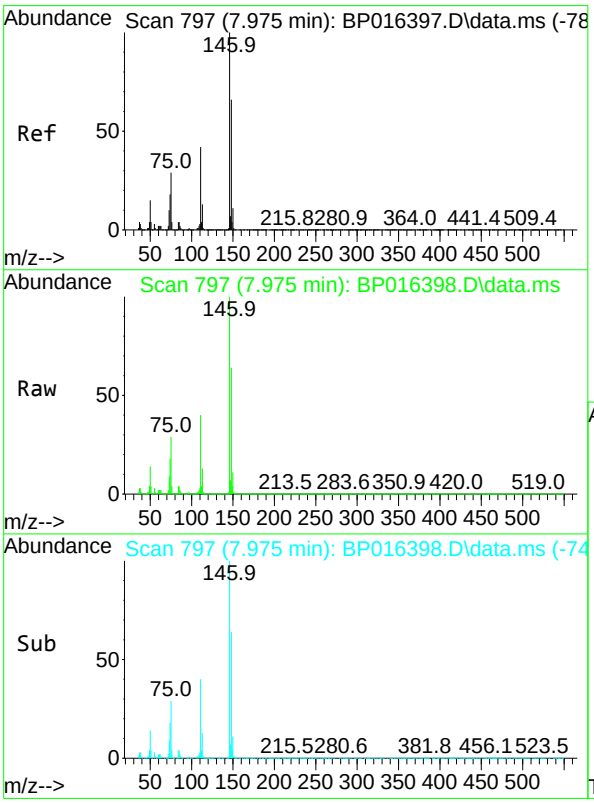
#11
bis(2-Chloroethyl)ether
Concen: 46.405 ng
RT: 7.522 min Scan# 7
Delta R.T. 0.000 min
Lab File: BP016398.D
Acq: 27 Jul 2023 13:55

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion: 93 Resp: 1518260

Ion	Ratio	Lower	Upper
93	100		
63	70.0	49.4	89.4
95	32.2	12.9	52.9

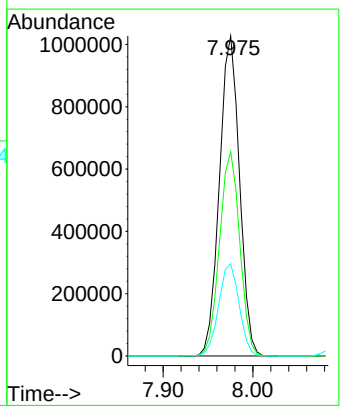


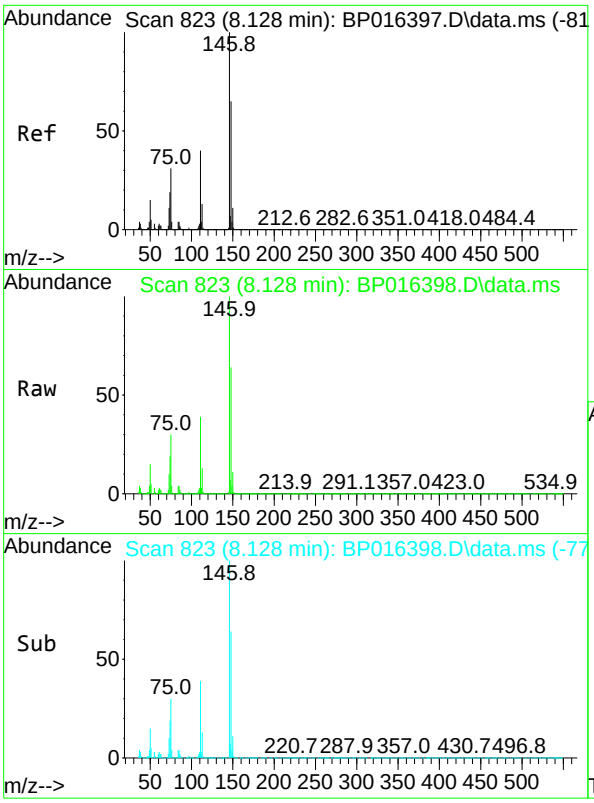


#12
1,3-Dichlorobenzene
Concen: 46.900 ng
RT: 7.975 min Scan# 797
Delta R.T. 0.000 min
Lab File: BP016398.D
Acq: 27 Jul 2023 13:55

Tgt Ion:146 Resp: 1596225

Ion	Ratio	Lower	Upper
146	100		
148	63.8	53.0	79.4
75	28.8	23.4	35.2



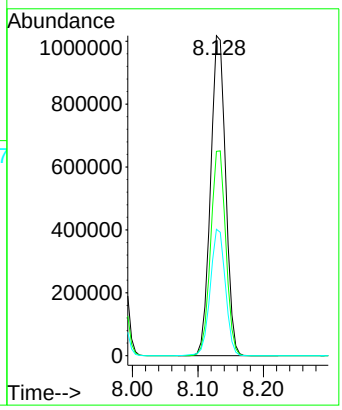


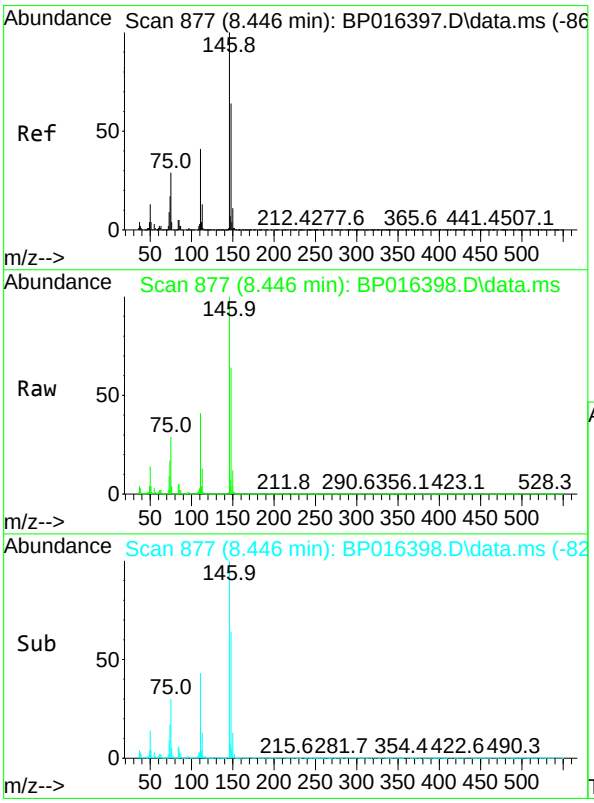
#13
1,4-Dichlorobenzene
Concen: 46.977 ng
RT: 8.128 min Scan# 8
Delta R.T. 0.000 min
Lab File: BP016398.D
Acq: 27 Jul 2023 13:55

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:146 Resp: 1621833

Ion	Ratio	Lower	Upper
146	100		
148	63.8	51.7	77.5
111	39.5	32.0	48.0

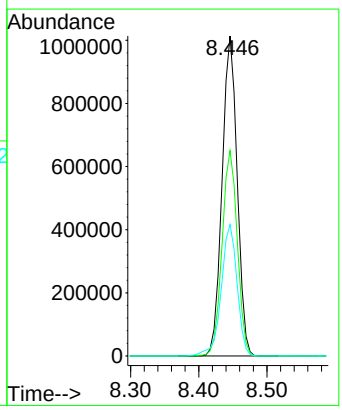


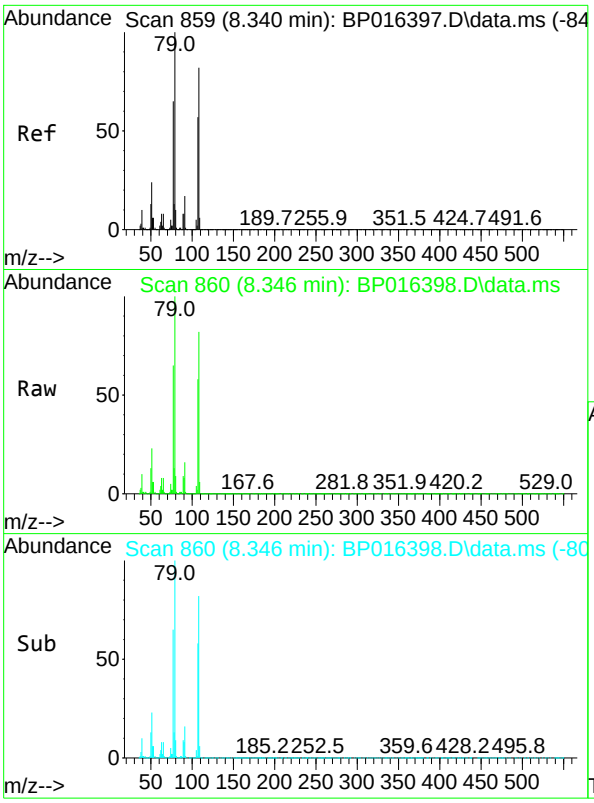


#14
1,2-Dichlorobenzene
Concen: 47.008 ng
RT: 8.446 min Scan# 877
Delta R.T. 0.000 min
Lab File: BP016398.D
Acq: 27 Jul 2023 13:55

Tgt Ion:146 Resp: 1562572

Ion	Ratio	Lower	Upper
146	100		
148	64.2	51.0	76.6
111	41.1	32.6	49.0



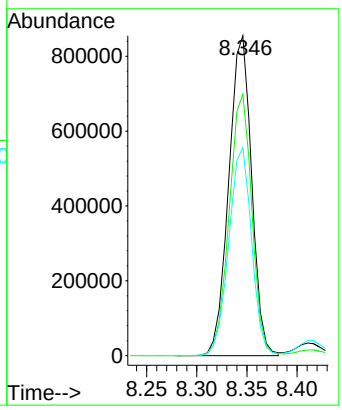


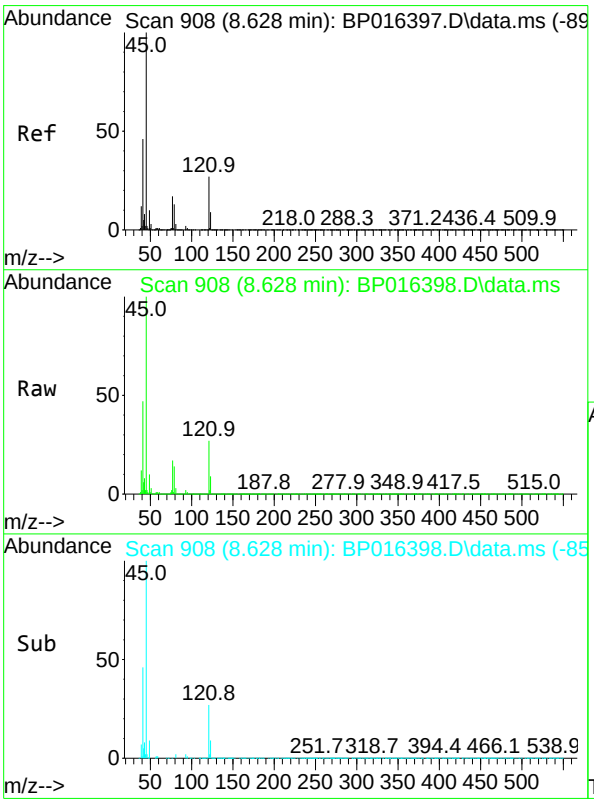
#15
Benzyl Alcohol
Concen: 47.760 ng
RT: 8.346 min Scan# 8
Delta R.T. 0.006 min
Lab File: BP016398.D
Acq: 27 Jul 2023 13:55

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion: 79 Resp: 1352316

Ion	Ratio	Lower	Upper
79	100		
108	81.8	65.4	98.2
77	65.1	51.8	77.8

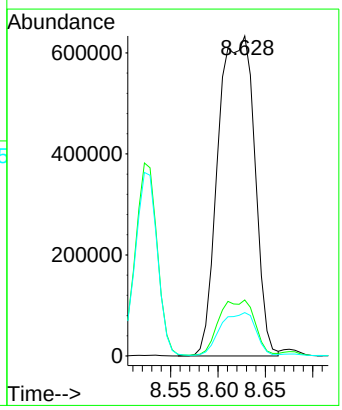


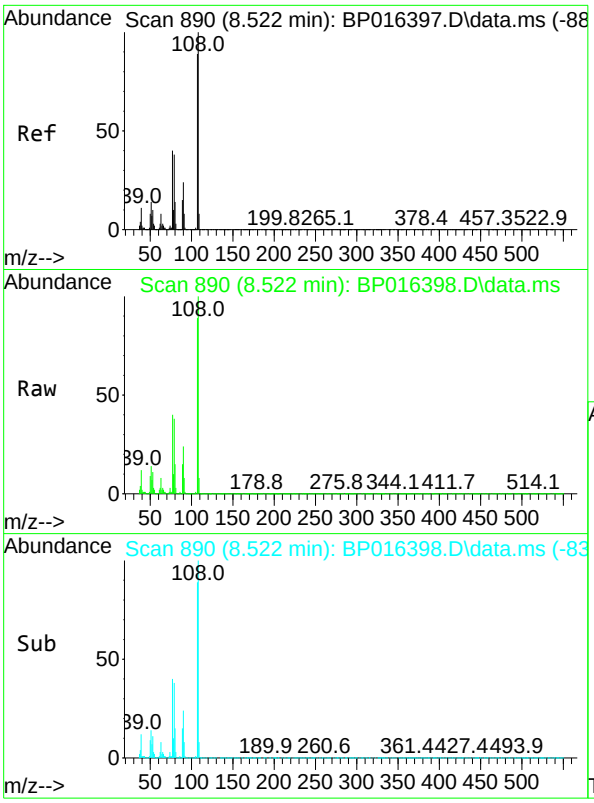


#16
2,2'-oxybis(1-Chloropropane)
Concen: 45.419 ng
RT: 8.628 min Scan# 908
Delta R.T. 0.000 min
Lab File: BP016398.D
Acq: 27 Jul 2023 13:55

Tgt Ion: 45 Resp: 1685225

Ion	Ratio	Lower	Upper
45	100		
77	17.5	0.0	37.3
79	13.6	0.0	33.3



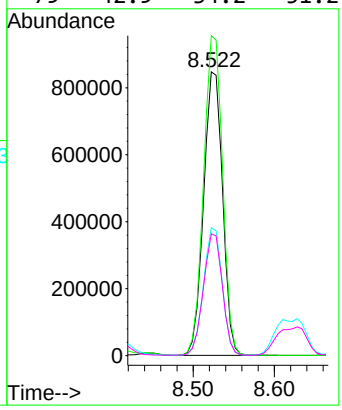


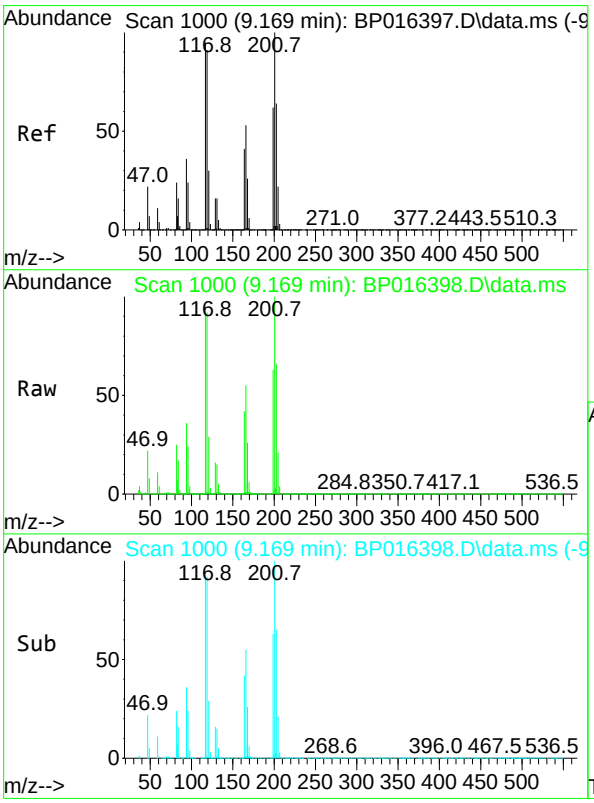
#17
2-Methylphenol
Concen: 47.373 ng
RT: 8.522 min Scan# 8
Delta R.T. 0.000 min
Lab File: BP016398.D
Acq: 27 Jul 2023 13:55

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:107 Resp: 1374131

Ion	Ratio	Lower	Upper
107	100		
108	112.7	89.6	134.4
77	45.1	35.6	53.4
79	42.9	34.2	51.2

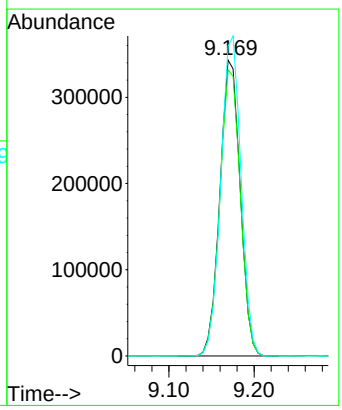


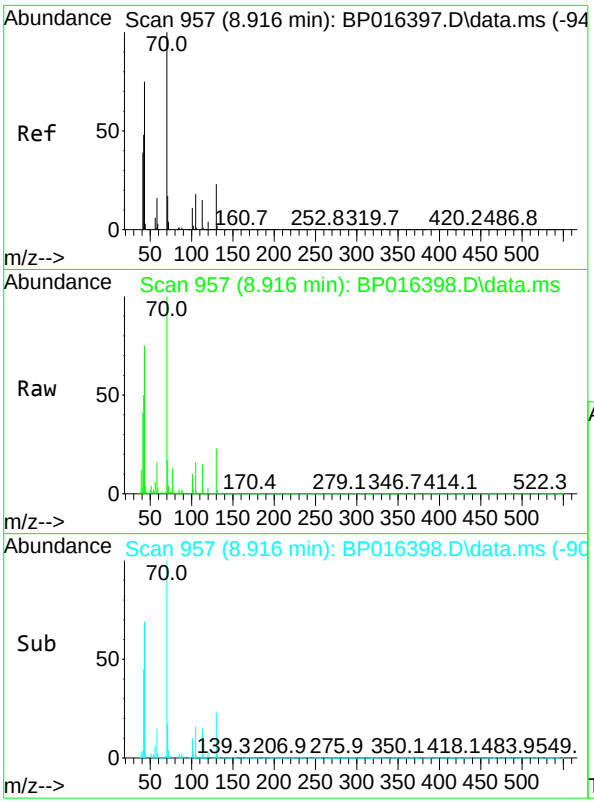


#18
Hexachloroethane
Concen: 46.218 ng
RT: 9.169 min Scan# 1000
Delta R.T. 0.000 min
Lab File: BP016398.D
Acq: 27 Jul 2023 13:55

Tgt Ion:117 Resp: 569156

Ion	Ratio	Lower	Upper
117	100		
119	96.7	76.9	115.3
201	107.5	86.2	129.4



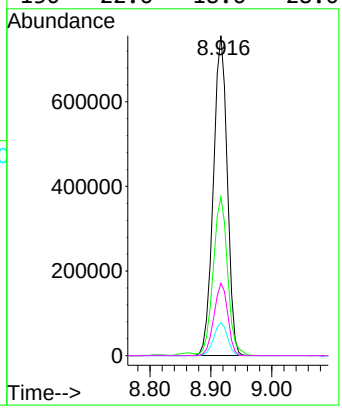


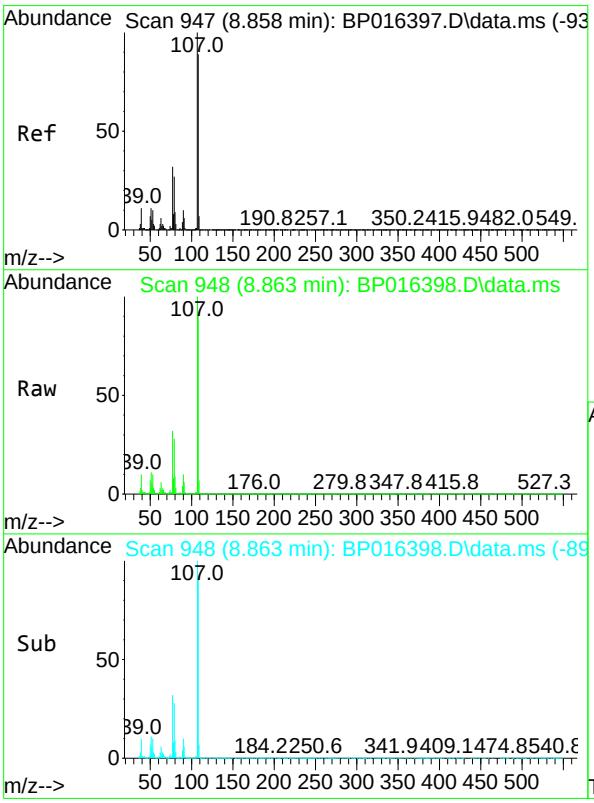
#19
n-Nitroso-di-n-propylamine
Concen: 46.064 ng
RT: 8.916 min Scan# 9
Delta R.T. 0.000 min
Lab File: BP016398.D
Acq: 27 Jul 2023 13:55

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion: 70 Resp: 1196014

Ion	Ratio	Lower	Upper
70	100		
42	49.6	39.3	58.9
101	10.4	8.6	12.8
130	22.6	18.6	28.0

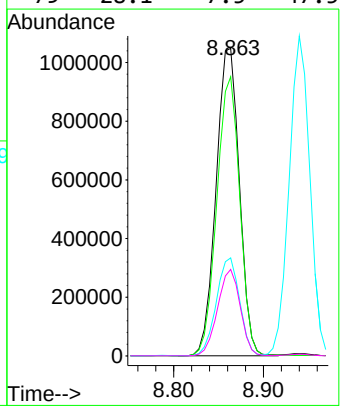


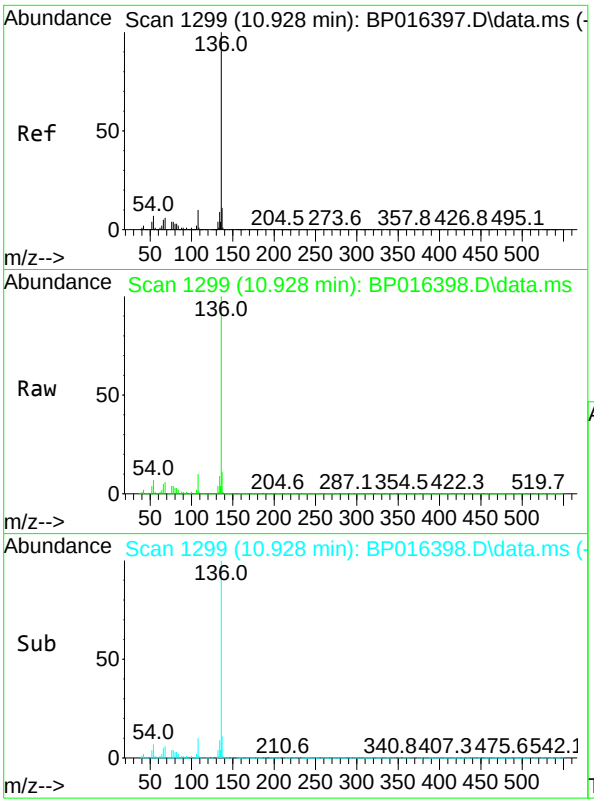


#20
3+4-Methylphenols
Concen: 47.975 ng
RT: 8.863 min Scan# 948
Delta R.T. 0.006 min
Lab File: BP016398.D
Acq: 27 Jul 2023 13:55

Tgt Ion:107 Resp: 1889963

Ion	Ratio	Lower	Upper
107	100		
108	90.8	69.1	109.1
77	31.9	12.0	52.0
79	28.1	7.5	47.5



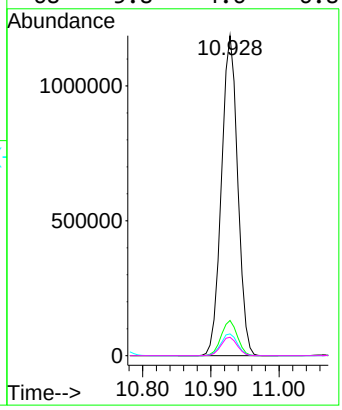


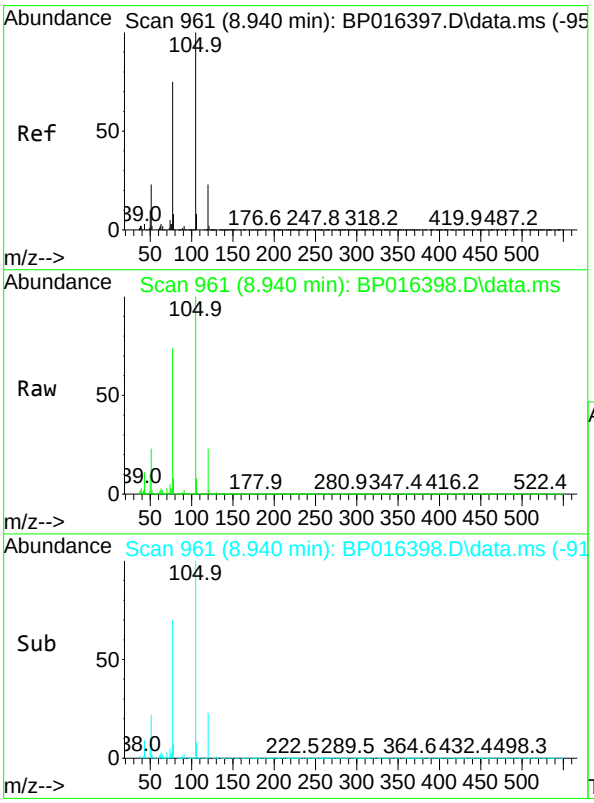
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.928 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP016398.D
Acq: 27 Jul 2023 13:55

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:136 Resp: 1965031

Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.6	13.0
54	6.8	5.6	8.4
68	5.8	4.6	6.8

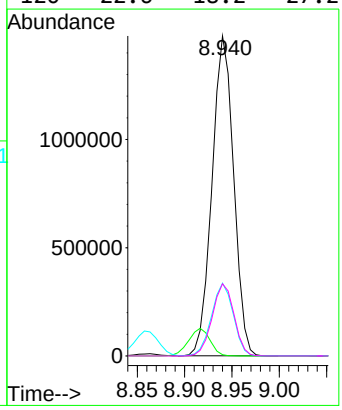


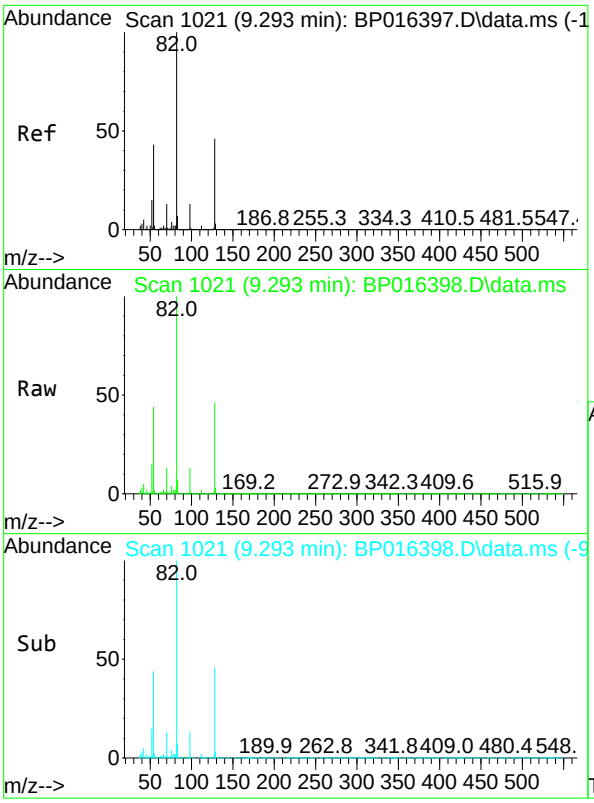


#22
Acetophenone
Concen: 47.310 ng
RT: 8.940 min Scan# 961
Delta R.T. 0.000 min
Lab File: BP016398.D
Acq: 27 Jul 2023 13:55

Tgt Ion:105 Resp: 2347229

Ion	Ratio	Lower	Upper
105	100		
71	0.4	0.2	0.2#
51	22.8	18.3	27.5
120	22.6	18.2	27.2



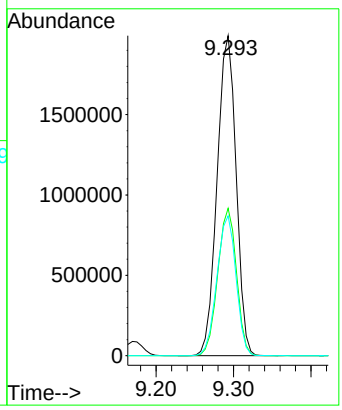


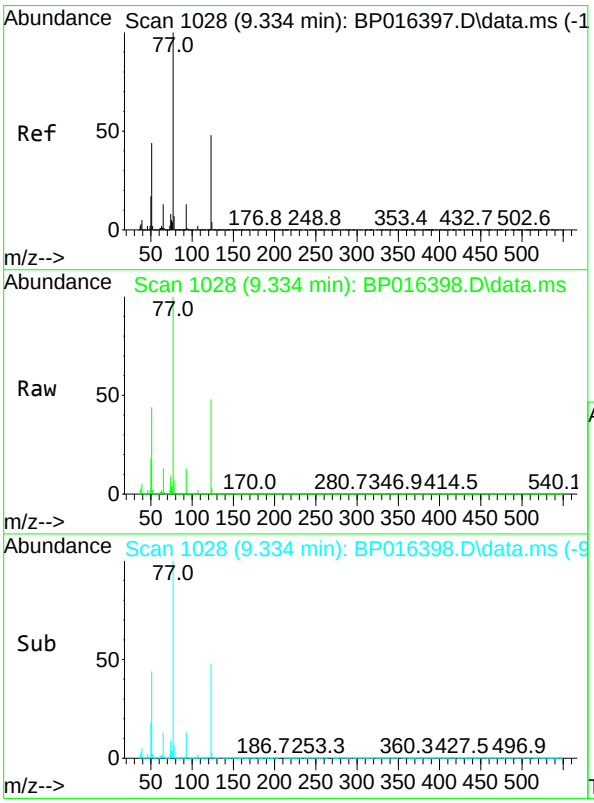
#23
Nitrobenzene-d5
Concen: 96.701 ng
RT: 9.293 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP016398.D
Acq: 27 Jul 2023 13:55

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion: 82 Resp: 3394522

Ion	Ratio	Lower	Upper
82	100		
128	46.0	36.6	55.0
54	43.7	34.5	51.7

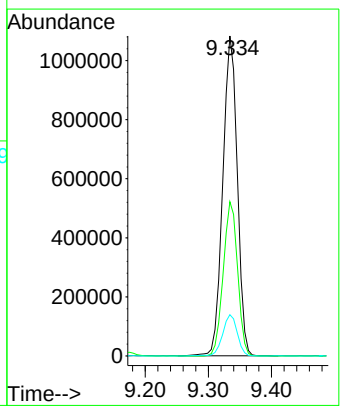


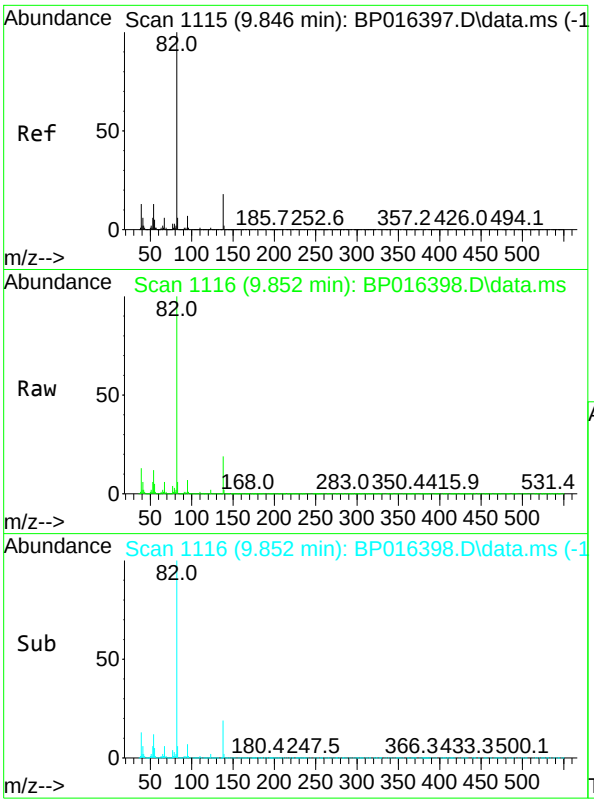


#24
Nitrobenzene
Concen: 47.797 ng
RT: 9.334 min Scan# 1028
Delta R.T. 0.000 min
Lab File: BP016398.D
Acq: 27 Jul 2023 13:55

Tgt Ion: 77 Resp: 1723310

Ion	Ratio	Lower	Upper
77	100		
123	48.2	38.6	58.0
65	12.9	10.5	15.7



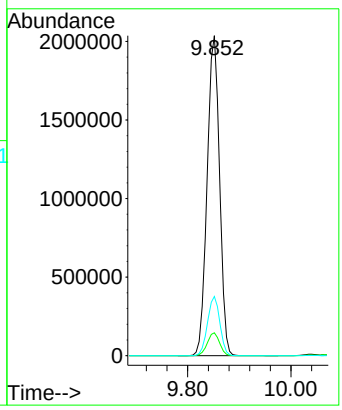


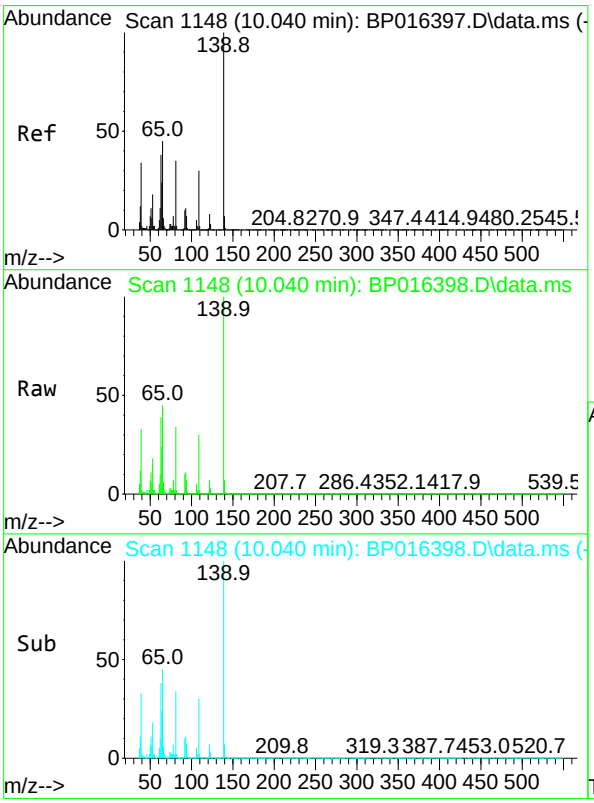
#25
Isophorone
Concen: 47.899 ng
RT: 9.852 min Scan# 11
Delta R.T. 0.006 min
Lab File: BP016398.D
Acq: 27 Jul 2023 13:55

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion: 82 Resp: 3394667

Ion	Ratio	Lower	Upper
82	100		
95	7.1	5.7	8.5
138	18.5	14.6	22.0

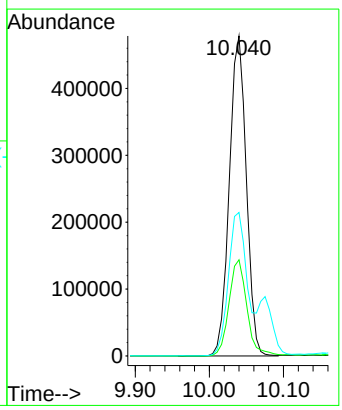


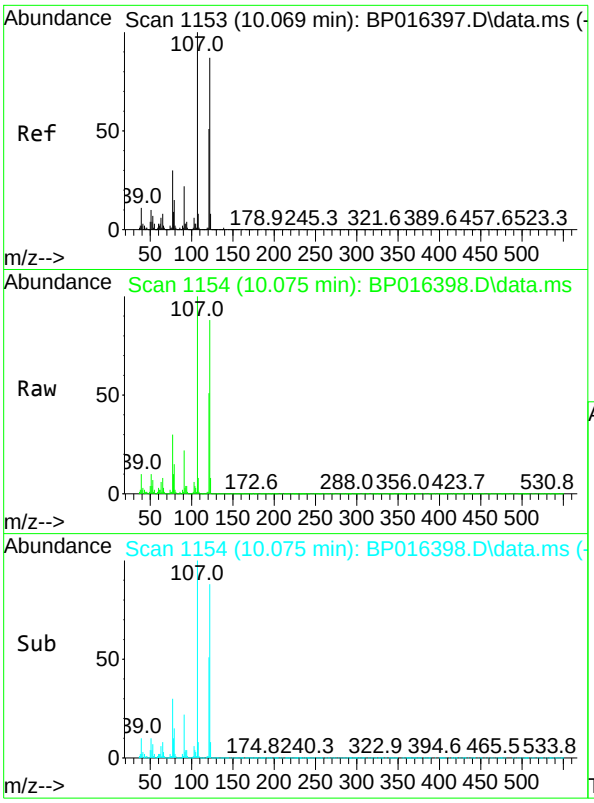


#26
2-Nitrophenol
Concen: 48.899 ng
RT: 10.040 min Scan# 1148
Delta R.T. -0.000 min
Lab File: BP016398.D
Acq: 27 Jul 2023 13:55

Tgt Ion:139 Resp: 760854

Ion	Ratio	Lower	Upper
139	100		
109	30.1	24.2	36.4
65	44.9	35.8	53.6



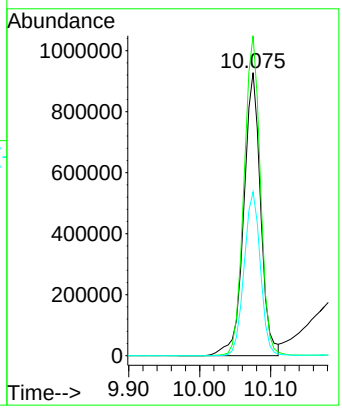


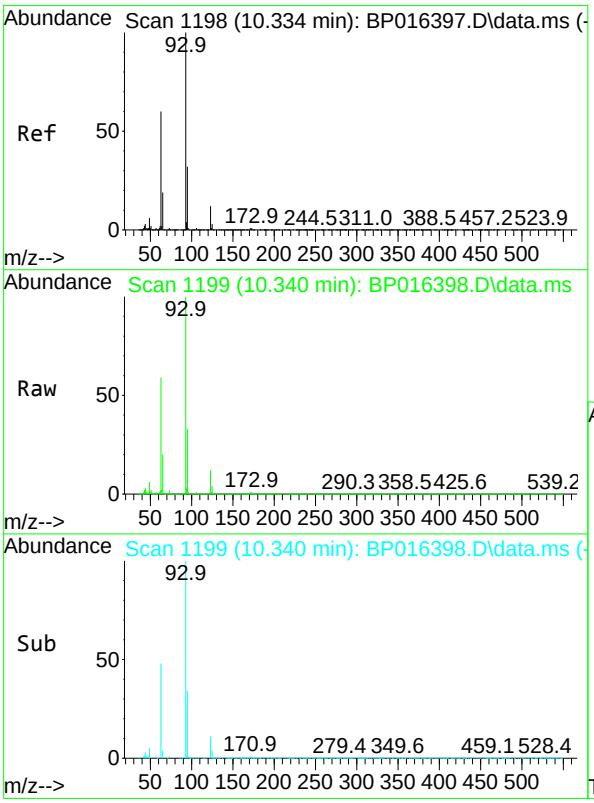
#27
2,4-Dimethylphenol
Concen: 48.437 ng
RT: 10.075 min Scan# 11
Delta R.T. 0.006 min
Lab File: BP016398.D
Acq: 27 Jul 2023 13:55

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:122 Resp: 1535739

Ion	Ratio	Lower	Upper
122	100		
107	113.1	91.9	137.9
121	57.9	47.2	70.8

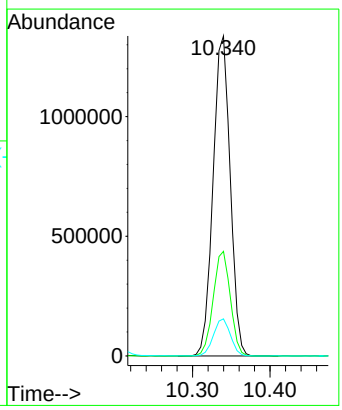


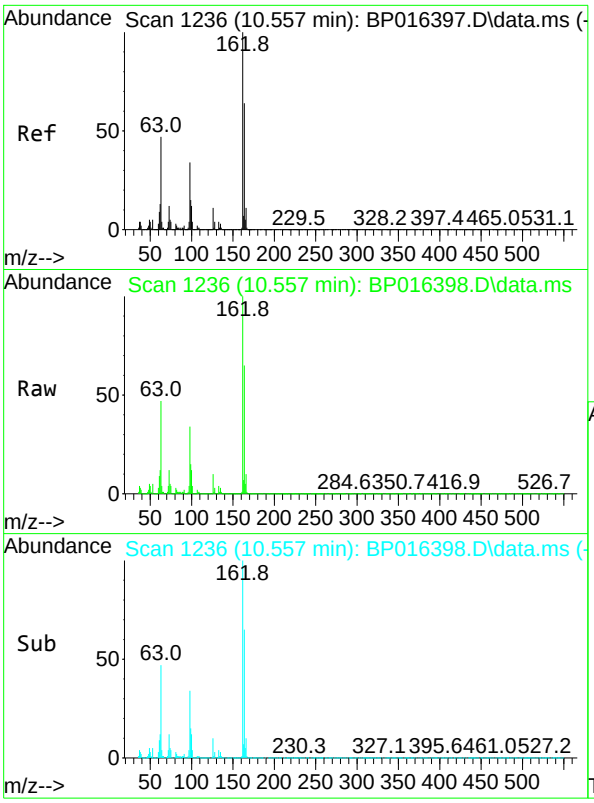


#28
bis(2-Chloroethoxy)methane
Concen: 47.442 ng
RT: 10.340 min Scan# 1199
Delta R.T. 0.006 min
Lab File: BP016398.D
Acq: 27 Jul 2023 13:55

Tgt Ion: 93 Resp: 2059520

Ion	Ratio	Lower	Upper
93	100		
95	32.7	25.8	38.8
123	11.6	9.4	14.0



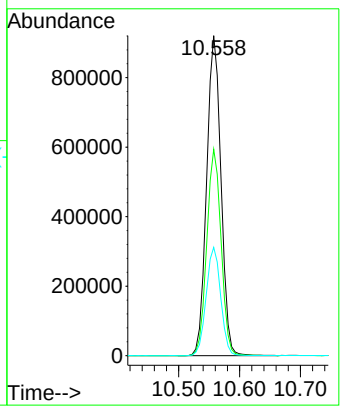


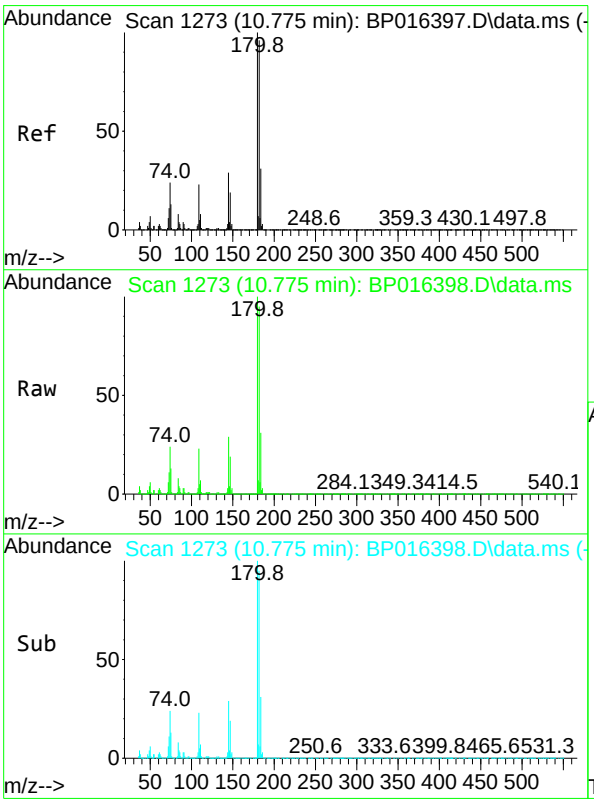
#29
2,4-Dichlorophenol
Concen: 50.792 ng
RT: 10.557 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP016398.D
Acq: 27 Jul 2023 13:55

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:162 Resp: 1507119

Ion	Ratio	Lower	Upper
162	100		
164	64.5	44.2	84.2
98	33.9	13.7	53.7

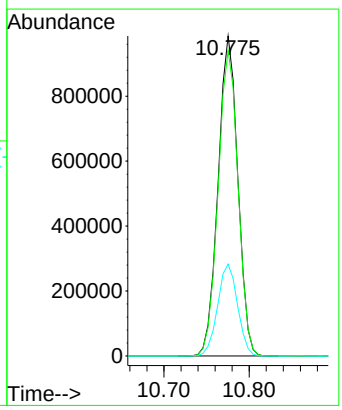


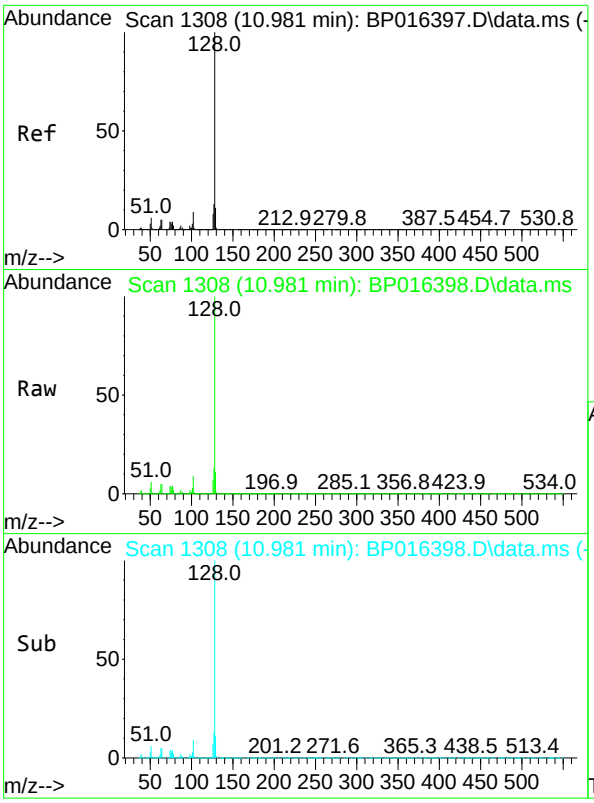


#30
1,2,4-Trichlorobenzene
Concen: 49.181 ng
RT: 10.775 min Scan# 1273
Delta R.T. 0.000 min
Lab File: BP016398.D
Acq: 27 Jul 2023 13:55

Tgt Ion:180 Resp: 1580646

Ion	Ratio	Lower	Upper
180	100		
182	95.5	77.1	115.7
145	28.7	22.9	34.3



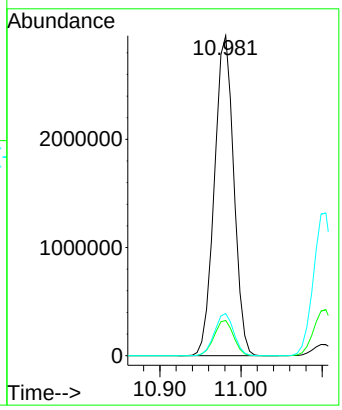


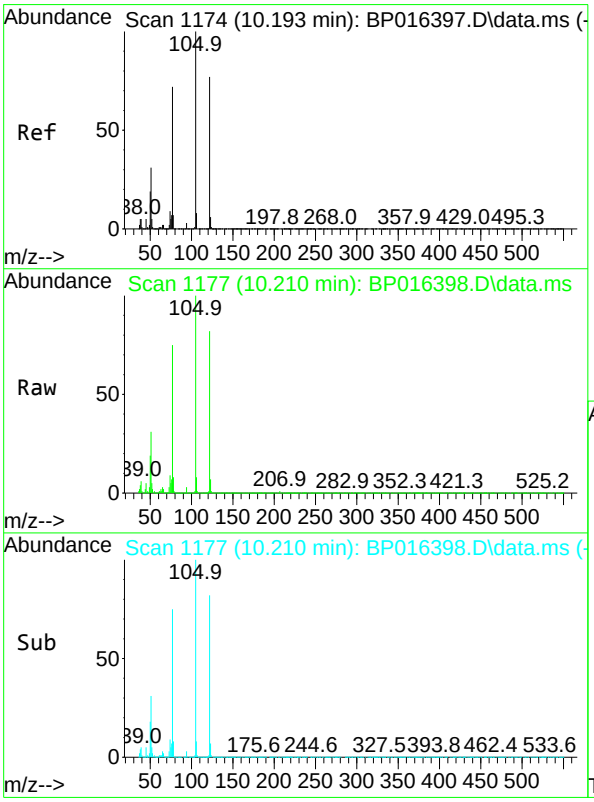
#31
Naphthalene
Concen: 47.729 ng
RT: 10.981 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP016398.D
Acq: 27 Jul 2023 13:55

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:128 Resp: 4905789

Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.6	12.8
127	13.2	10.4	15.6

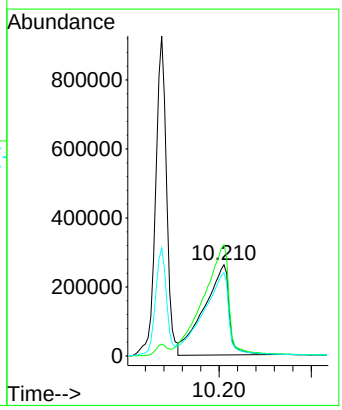


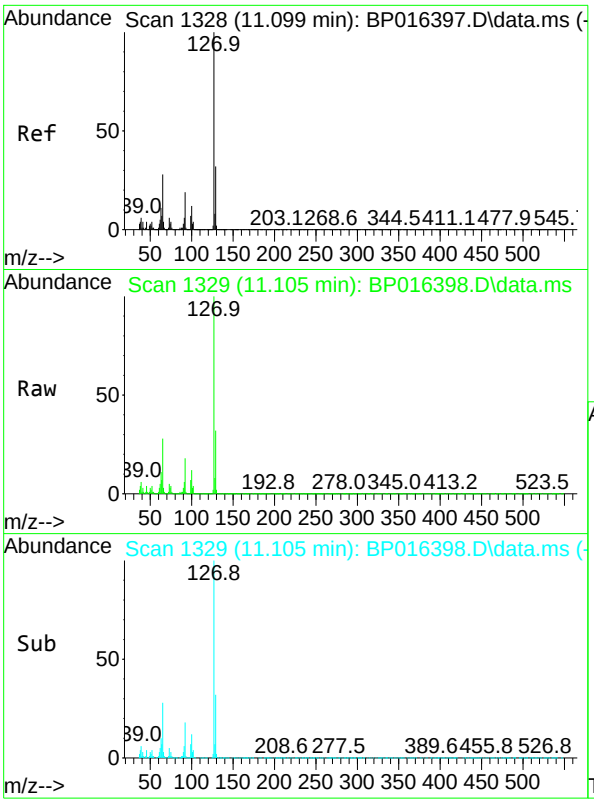


#32
Benzoic acid
Concen: 47.834 ng
RT: 10.210 min Scan# 1177
Delta R.T. 0.017 min
Lab File: BP016398.D
Acq: 27 Jul 2023 13:55

Tgt Ion:122 Resp: 994520

Ion	Ratio	Lower	Upper
122	100		
105	121.8	105.2	145.2
77	91.3	72.2	112.2



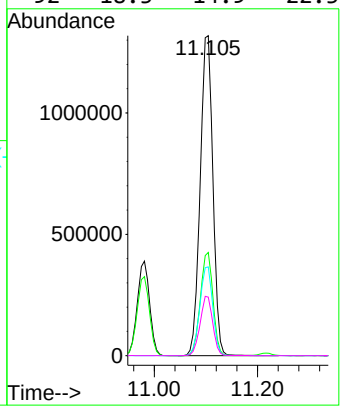


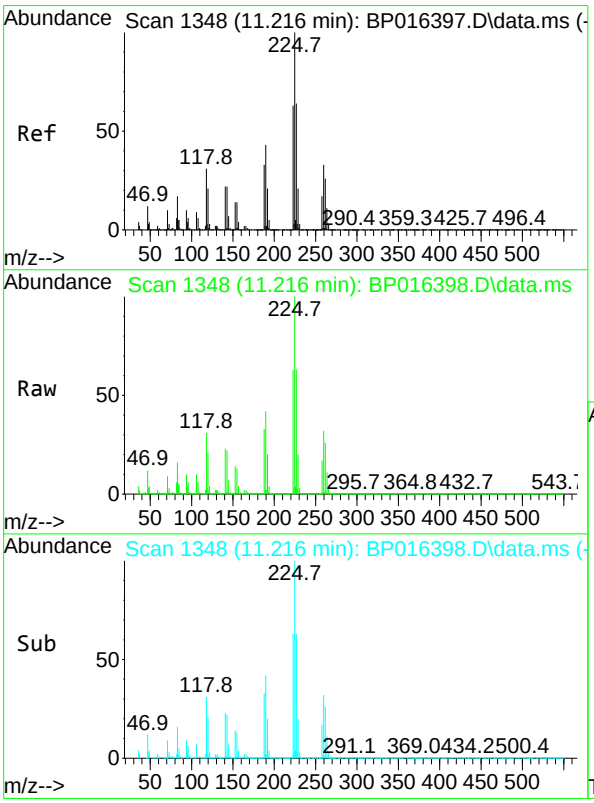
#33
4-Chloroaniline
Concen: 48.542 ng
RT: 11.105 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP016398.D
Acq: 27 Jul 2023 13:55

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:127 Resp: 2250628

Ion	Ratio	Lower	Upper
127	100		
129	32.2	25.8	38.8
65	27.7	22.7	34.1
92	18.3	14.9	22.3

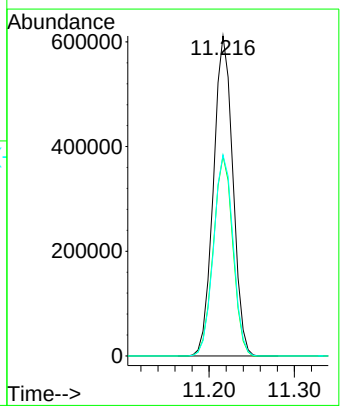


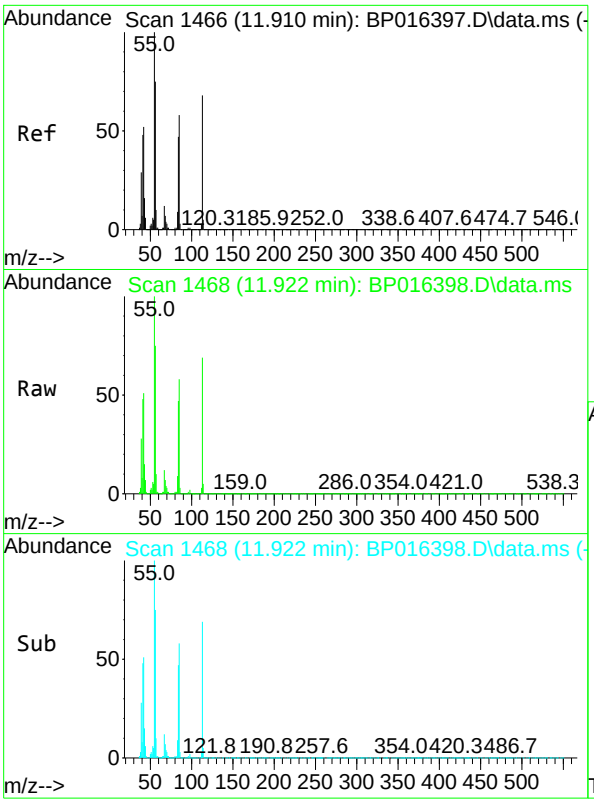


#34
Hexachlorobutadiene
Concen: 50.765 ng
RT: 11.216 min Scan# 1348
Delta R.T. 0.000 min
Lab File: BP016398.D
Acq: 27 Jul 2023 13:55

Tgt Ion:225 Resp: 965948

Ion	Ratio	Lower	Upper
225	100		
223	62.7	50.2	75.4
227	62.8	51.0	76.6



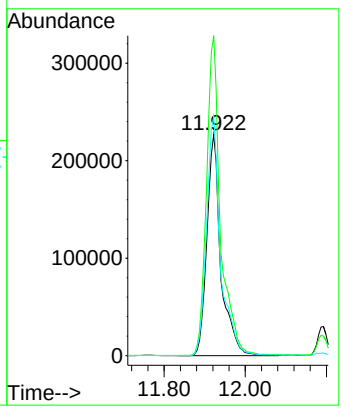


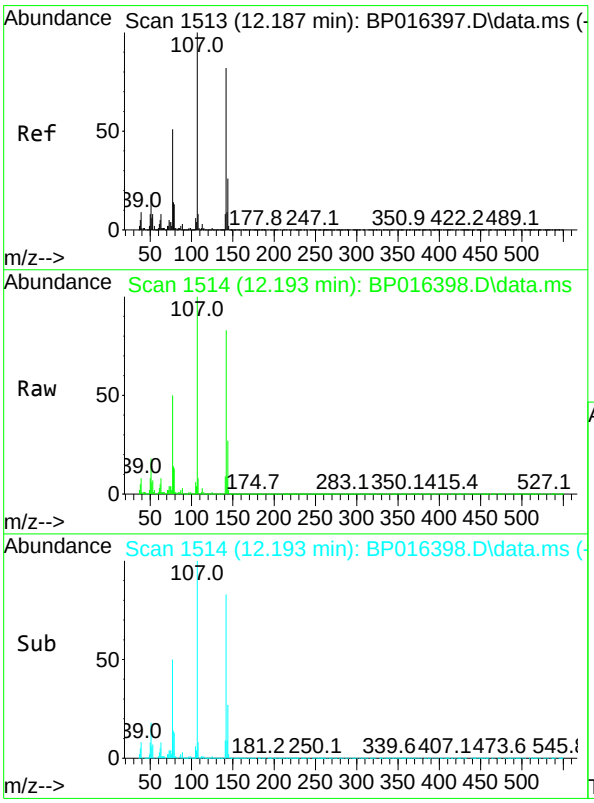
#35
Caprolactam
Concen: 49.739 ng
RT: 11.922 min Scan# 14
Delta R.T. 0.012 min
Lab File: BP016398.D
Acq: 27 Jul 2023 13:55

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:113 Resp: 539409

Ion	Ratio	Lower	Upper
113	100		
55	144.7	128.0	168.0
56	108.2	91.3	131.3

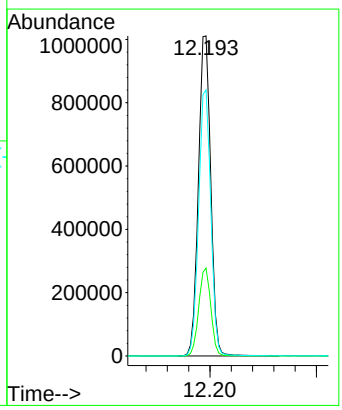


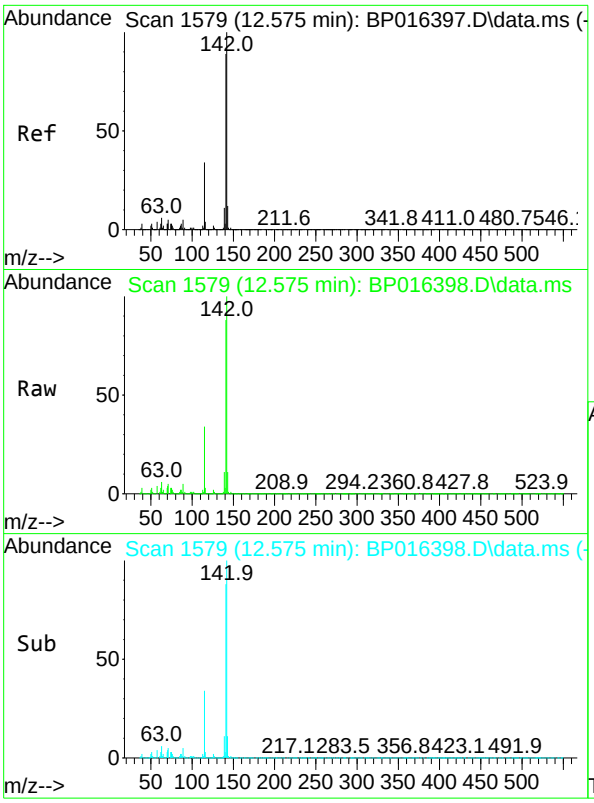


#36
4-Chloro-3-methylphenol
Concen: 49.222 ng
RT: 12.193 min Scan# 1514
Delta R.T. 0.006 min
Lab File: BP016398.D
Acq: 27 Jul 2023 13:55

Tgt Ion:107 Resp: 1623509

Ion	Ratio	Lower	Upper
107	100		
144	27.5	21.0	31.6
142	83.2	65.6	98.4



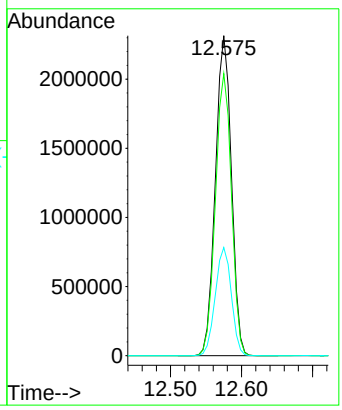


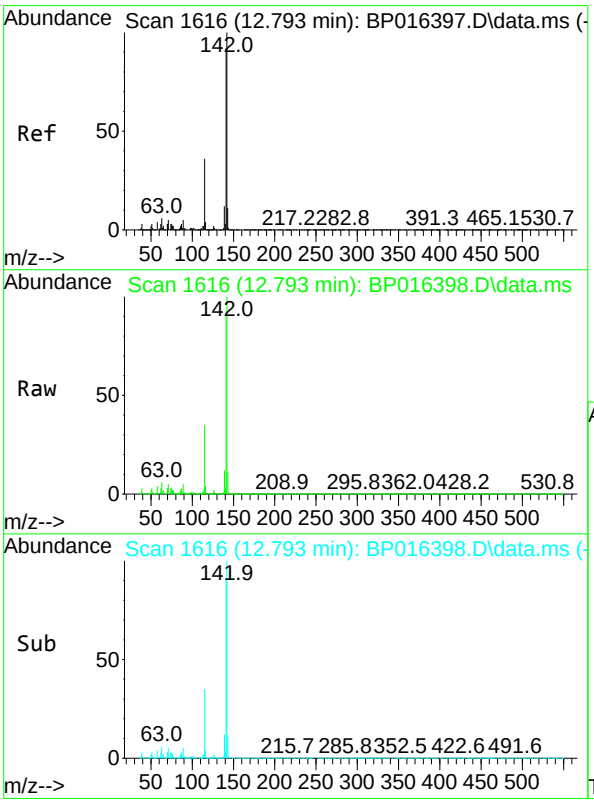
#37
2-Methylnaphthalene
Concen: 48.349 ng
RT: 12.575 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP016398.D
Acq: 27 Jul 2023 13:55

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:142 Resp: 3610214

Ion	Ratio	Lower	Upper
142	100		
141	88.2	71.4	107.2
115	33.8	27.0	40.4

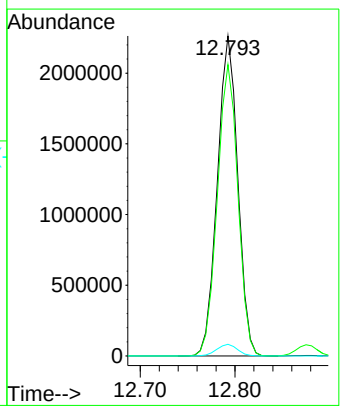


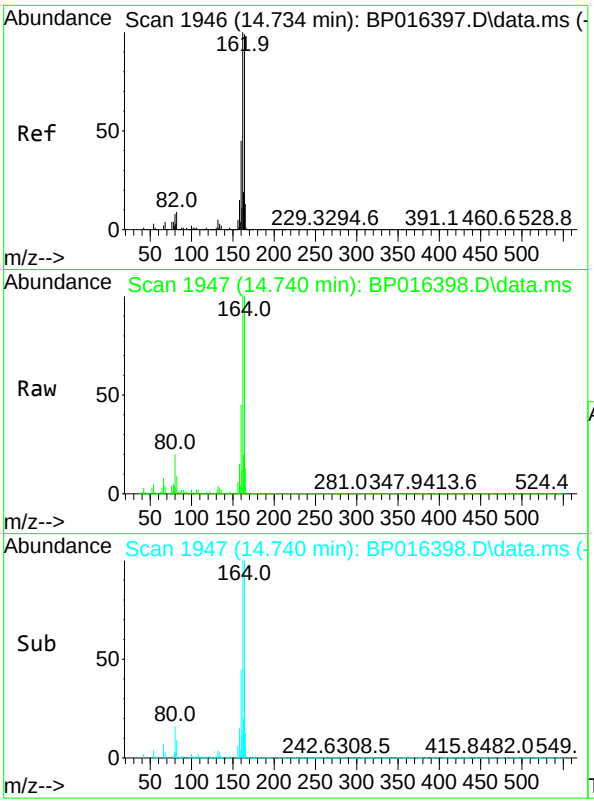


#38
1-Methylnaphthalene
Concen: 48.486 ng
RT: 12.793 min Scan# 1616
Delta R.T. 0.000 min
Lab File: BP016398.D
Acq: 27 Jul 2023 13:55

Tgt Ion:142 Resp: 3394235

Ion	Ratio	Lower	Upper
142	100		
141	91.1	73.8	110.6
116	3.6	2.9	4.3



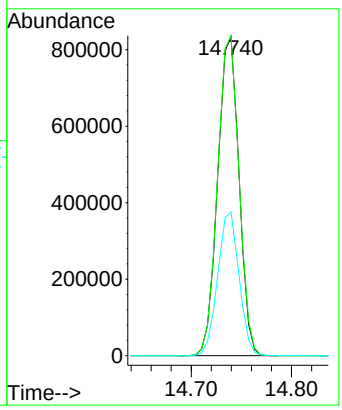


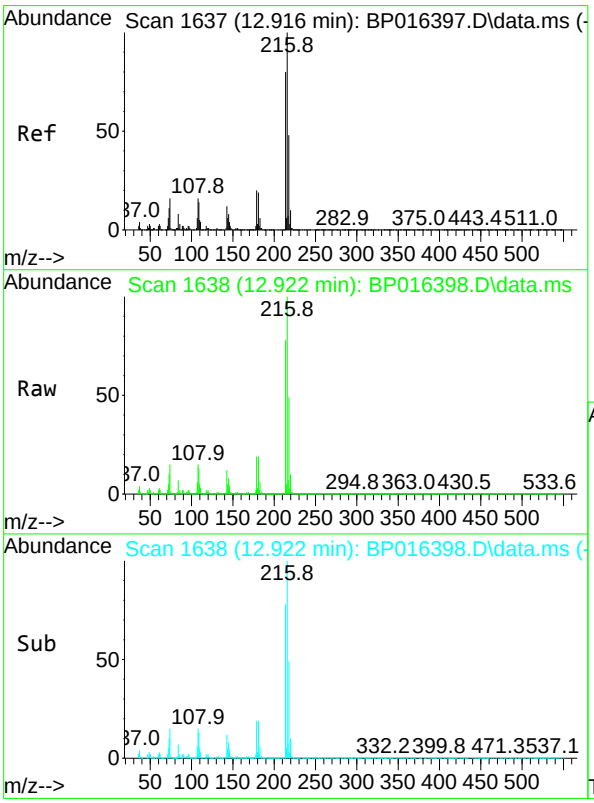
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.740 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP016398.D
Acq: 27 Jul 2023 13:55

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:164 Resp: 1229399

Ion	Ratio	Lower	Upper
164	100		
162	100.3	81.0	121.6
160	45.0	36.6	55.0

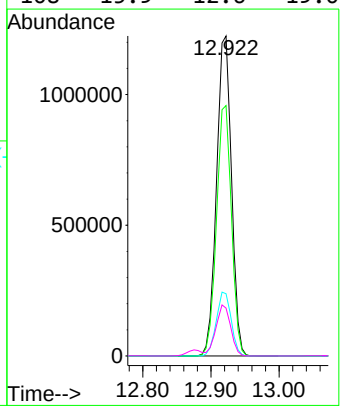


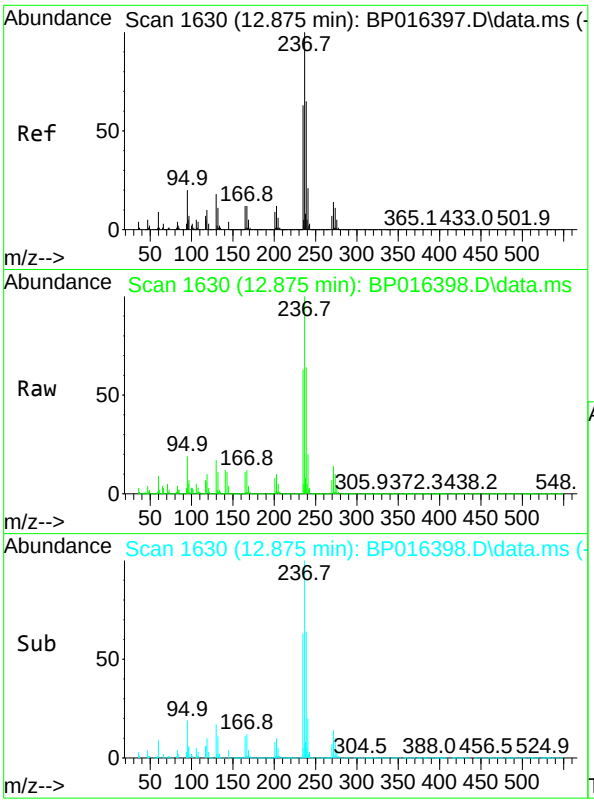


#40
1,2,4,5-Tetrachlorobenzene
Concen: 49.853 ng
RT: 12.922 min Scan# 1638
Delta R.T. 0.006 min
Lab File: BP016398.D
Acq: 27 Jul 2023 13:55

Tgt Ion:216 Resp: 1862530

Ion	Ratio	Lower	Upper
216	100		
214	78.3	62.8	94.2
179	19.9	16.0	24.0
108	15.9	12.6	19.0



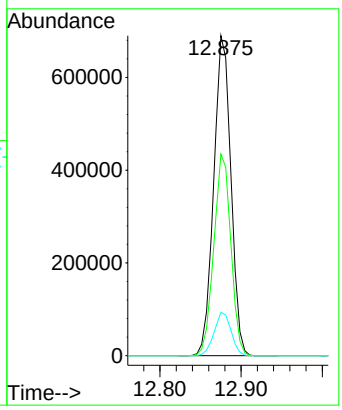


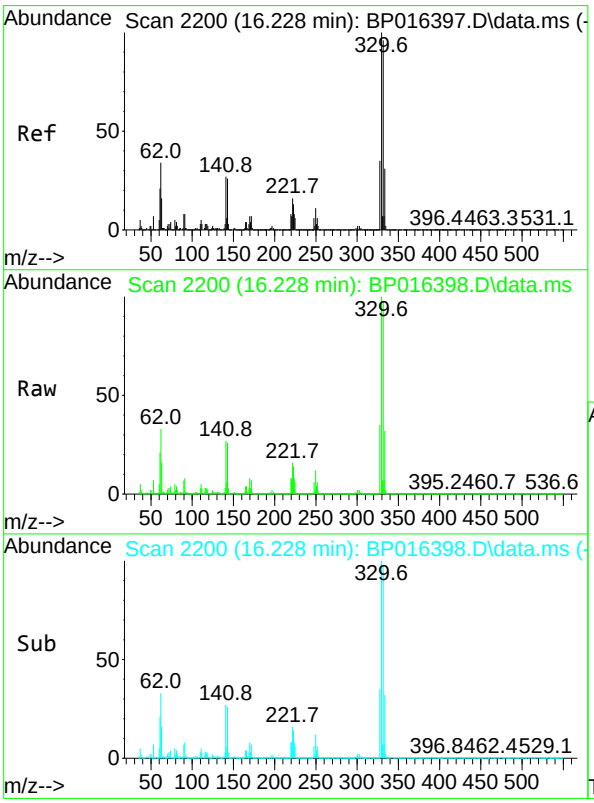
#41
Hexachlorocyclopentadiene
Concen: 54.084 ng
RT: 12.875 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP016398.D
Acq: 27 Jul 2023 13:55

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:237 Resp: 1014831

Ion	Ratio	Lower	Upper
237	100		
235	62.9	42.7	82.7
272	13.6	0.0	33.5

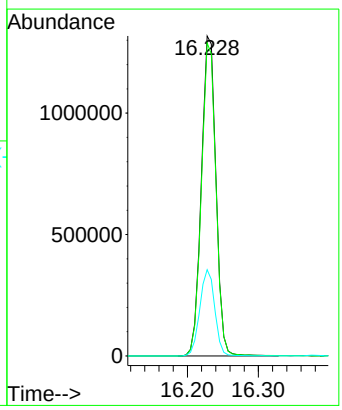


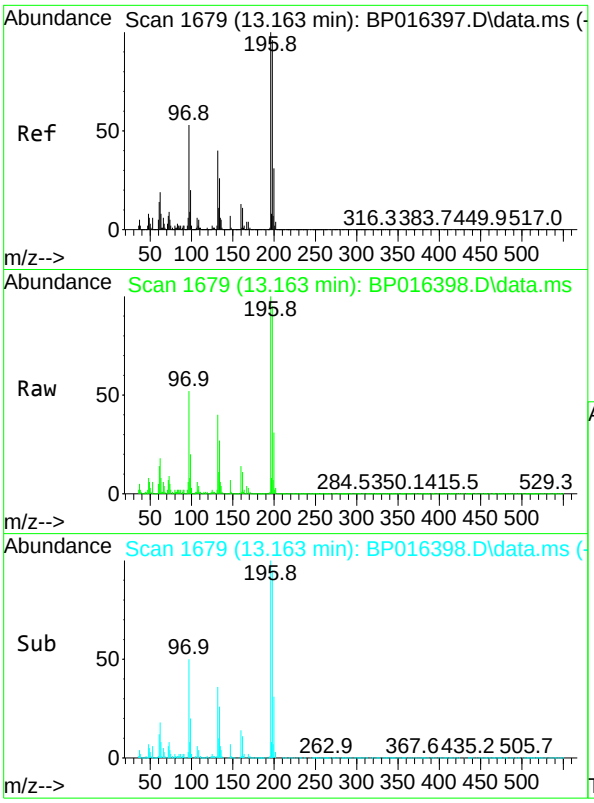


#42
2,4,6-Tribromophenol
Concen: 104.347 ng
RT: 16.228 min Scan# 2200
Delta R.T. -0.000 min
Lab File: BP016398.D
Acq: 27 Jul 2023 13:55

Tgt Ion:330 Resp: 1887243

Ion	Ratio	Lower	Upper
330	100		
332	97.2	77.8	116.8
141	27.6	22.6	34.0



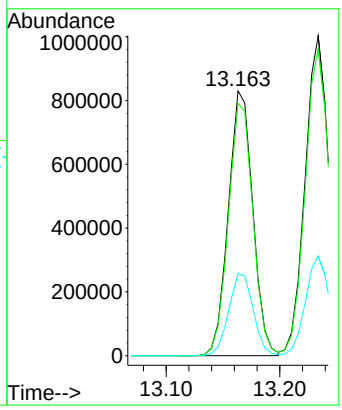


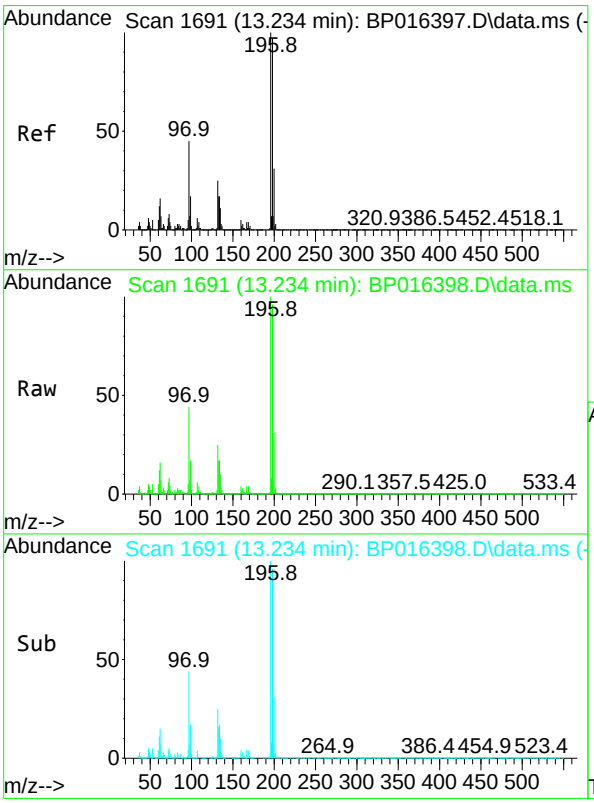
#43
2,4,6-Trichlorophenol
Concen: 51.846 ng
RT: 13.163 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP016398.D
Acq: 27 Jul 2023 13:55

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:196 Resp: 1242844

Ion	Ratio	Lower	Upper
196	100		
198	95.3	77.0	115.4
200	31.0	24.5	36.7

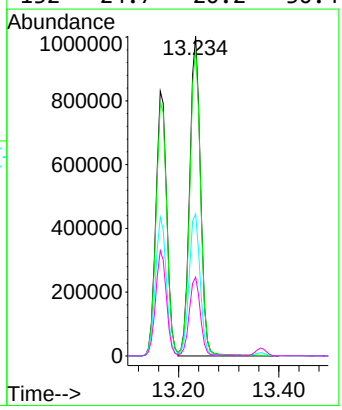


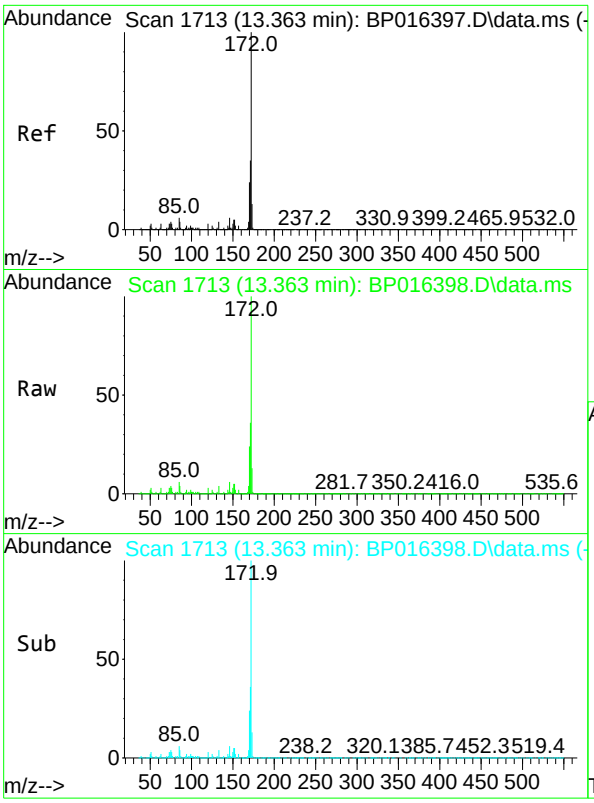


#44
2,4,5-Trichlorophenol
Concen: 51.682 ng
RT: 13.234 min Scan# 1691
Delta R.T. 0.000 min
Lab File: BP016398.D
Acq: 27 Jul 2023 13:55

Tgt Ion:196 Resp: 1503078

Ion	Ratio	Lower	Upper
196	100		
198	96.0	77.3	115.9
97	44.4	36.2	54.4
132	24.7	20.2	30.4



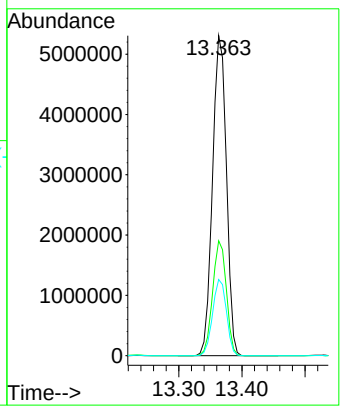


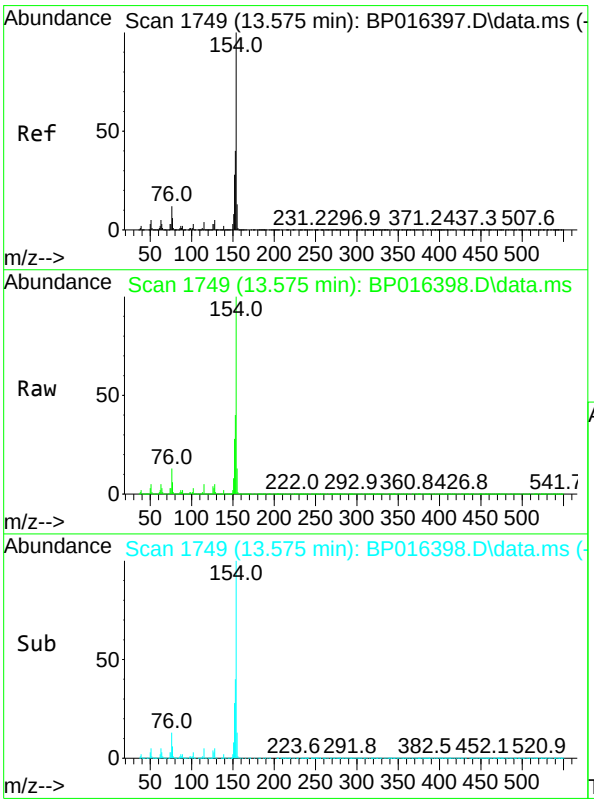
#45
2-Fluorobiphenyl
Concen: 94.403 ng
RT: 13.363 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP016398.D
Acq: 27 Jul 2023 13:55

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:172 Resp: 8095263

Ion	Ratio	Lower	Upper
172	100		
171	35.9	28.2	42.2
170	23.8	19.1	28.7

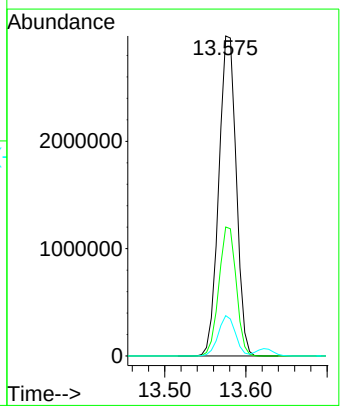


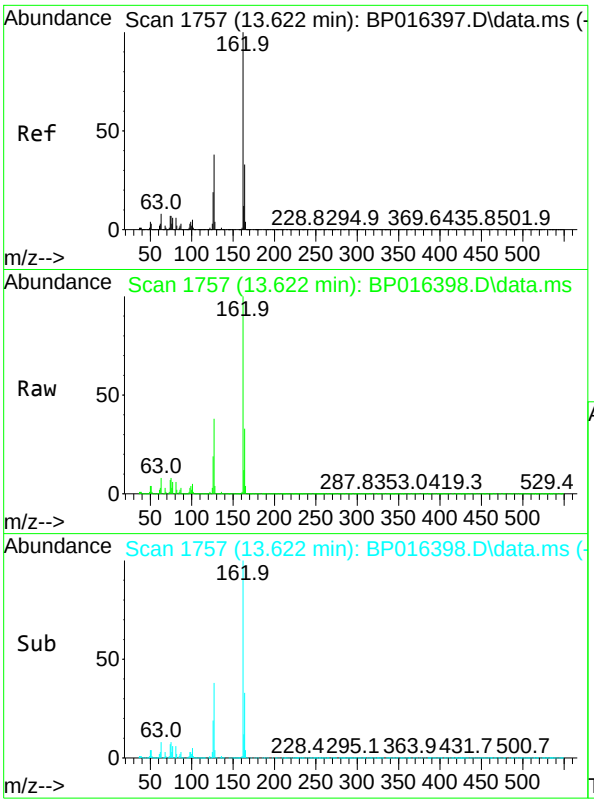


#46
1,1'-Biphenyl
Concen: 47.535 ng
RT: 13.575 min Scan# 1749
Delta R.T. 0.000 min
Lab File: BP016398.D
Acq: 27 Jul 2023 13:55

Tgt Ion:154 Resp: 4454760

Ion	Ratio	Lower	Upper
154	100		
153	40.3	20.1	60.1
76	12.6	0.0	32.5



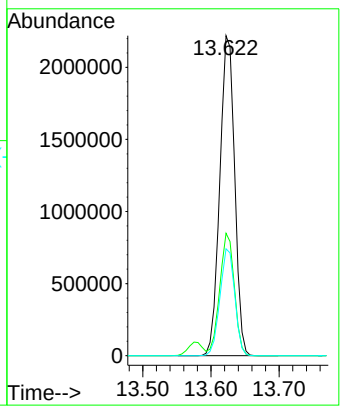


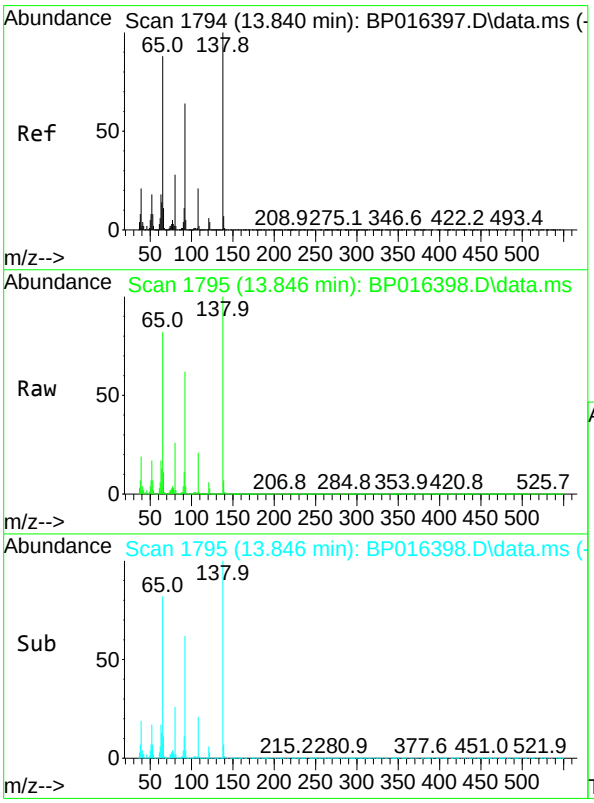
#47
2-Chloronaphthalene
Concen: 47.616 ng
RT: 13.622 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP016398.D
Acq: 27 Jul 2023 13:55

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:162 Resp: 3366548

Ion	Ratio	Lower	Upper
162	100		
127	38.2	30.1	45.1
164	33.4	26.6	39.8

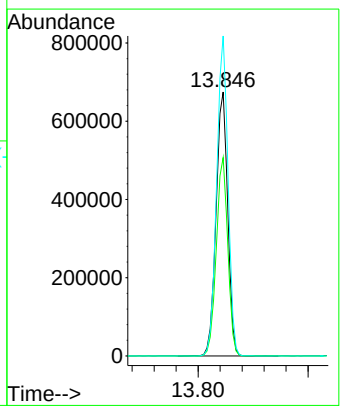


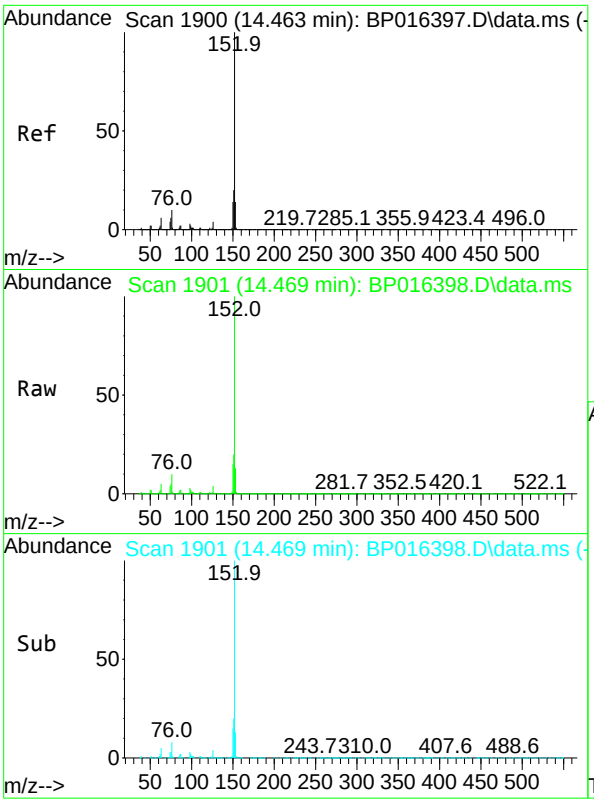


#48
2-Nitroaniline
Concen: 49.909 ng
RT: 13.846 min Scan# 1795
Delta R.T. 0.006 min
Lab File: BP016398.D
Acq: 27 Jul 2023 13:55

Tgt Ion: 65 Resp: 994662

Ion	Ratio	Lower	Upper
65	100		
92	75.2	58.2	87.4
138	121.2	91.3	136.9



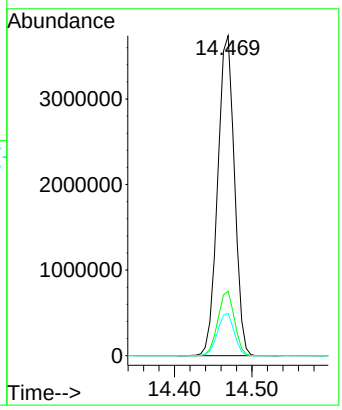


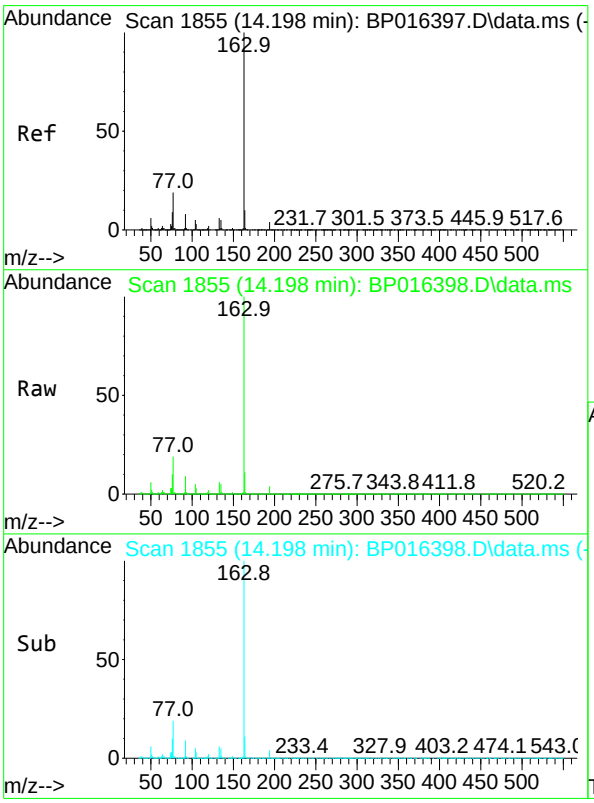
#49
Acenaphthylene
Concen: 47.820 ng
RT: 14.469 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP016398.D
Acq: 27 Jul 2023 13:55

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:152 Resp: 5609755

Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.2	24.4
153	13.2	10.8	16.2

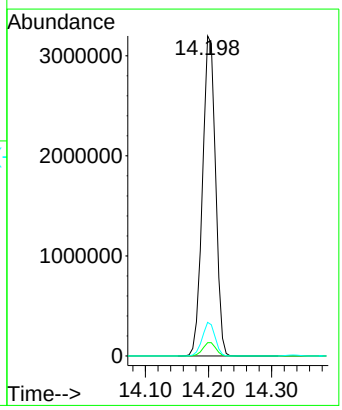


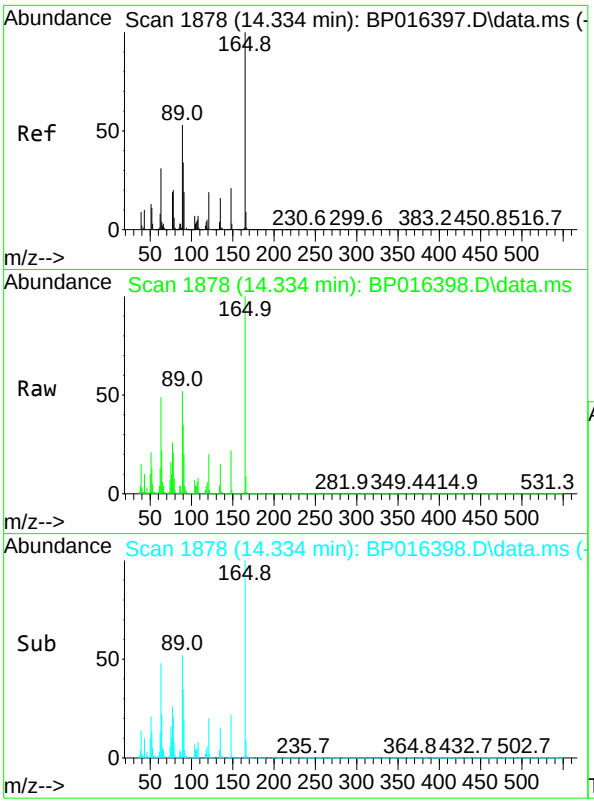


#50
Dimethylphthalate
Concen: 47.963 ng
RT: 14.198 min Scan# 1855
Delta R.T. 0.000 min
Lab File: BP016398.D
Acq: 27 Jul 2023 13:55

Tgt Ion:163 Resp: 4595007

Ion	Ratio	Lower	Upper
163	100		
194	4.2	3.4	5.2
164	10.5	8.2	12.2



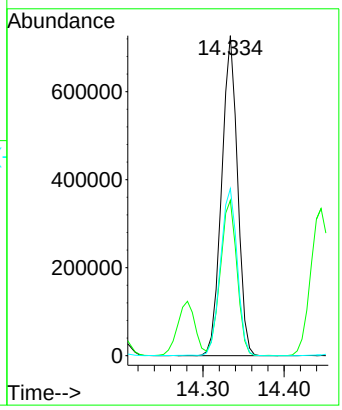


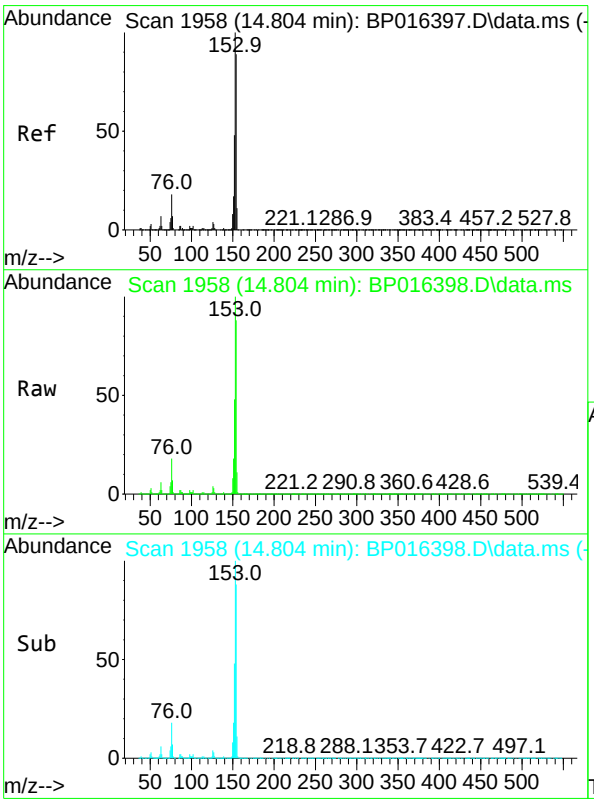
#51
2,6-Dinitrotoluene
Concen: 50.498 ng
RT: 14.334 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP016398.D
Acq: 27 Jul 2023 13:55

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:165 Resp: 991092

Ion	Ratio	Lower	Upper
165	100		
63	48.5	39.1	58.7
89	52.2	42.5	63.7

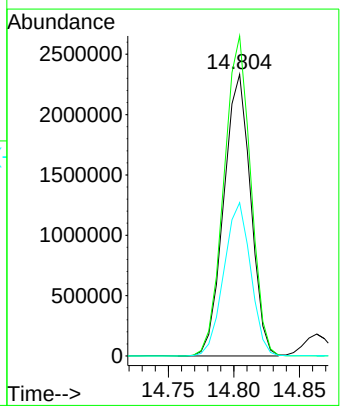


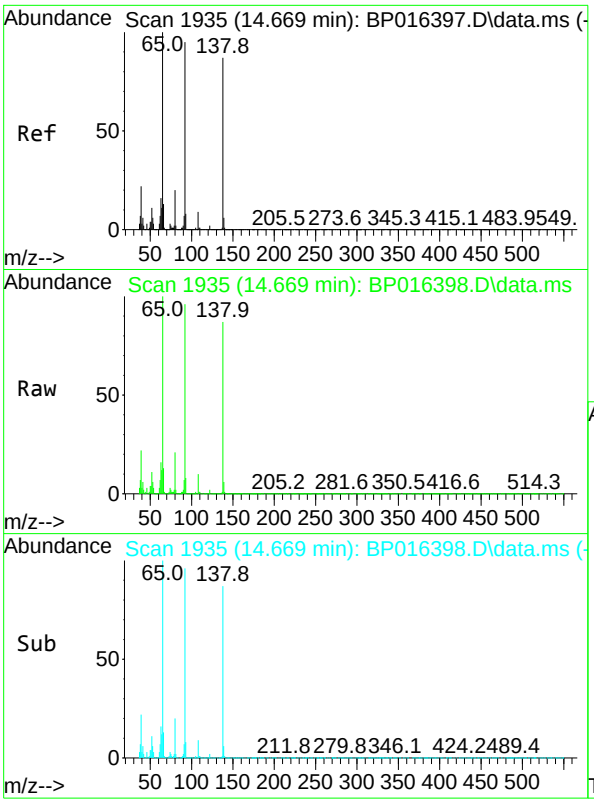


#52
Acenaphthene
Concen: 47.667 ng
RT: 14.804 min Scan# 1958
Delta R.T. 0.000 min
Lab File: BP016398.D
Acq: 27 Jul 2023 13:55

Tgt Ion:154 Resp: 3325167

Ion	Ratio	Lower	Upper
154	100		
153	113.6	90.4	135.6
152	54.5	43.4	65.0



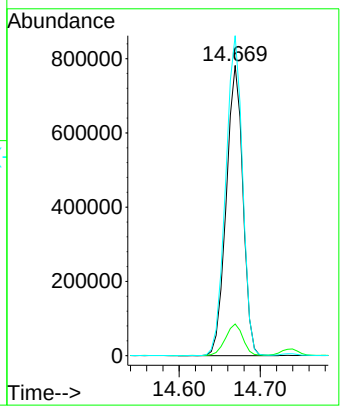


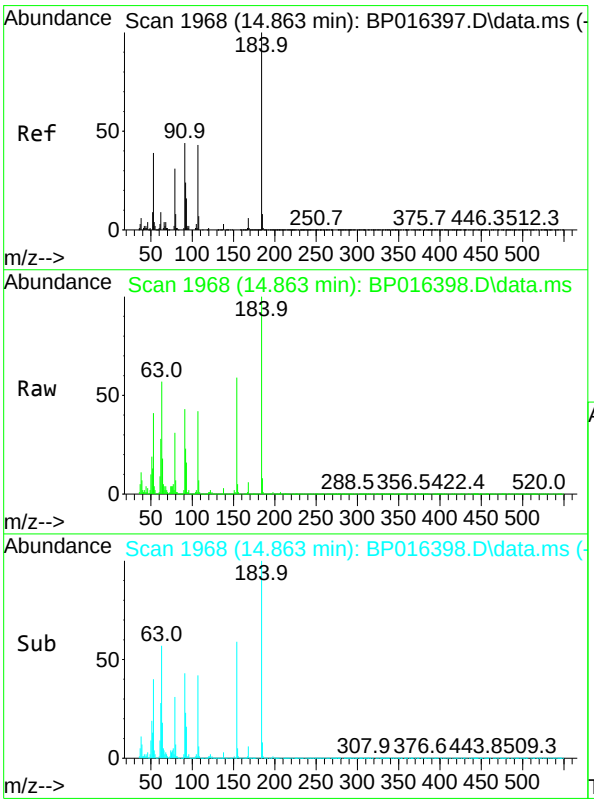
#53
3-Nitroaniline
Concen: 50.180 ng
RT: 14.669 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP016398.D
Acq: 27 Jul 2023 13:55

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:138 Resp: 1113425

Ion	Ratio	Lower	Upper
138	100		
108	10.9	8.7	13.1
92	110.3	87.6	131.4

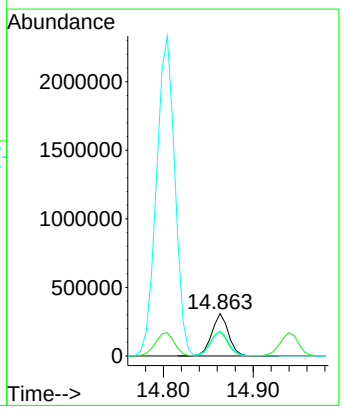


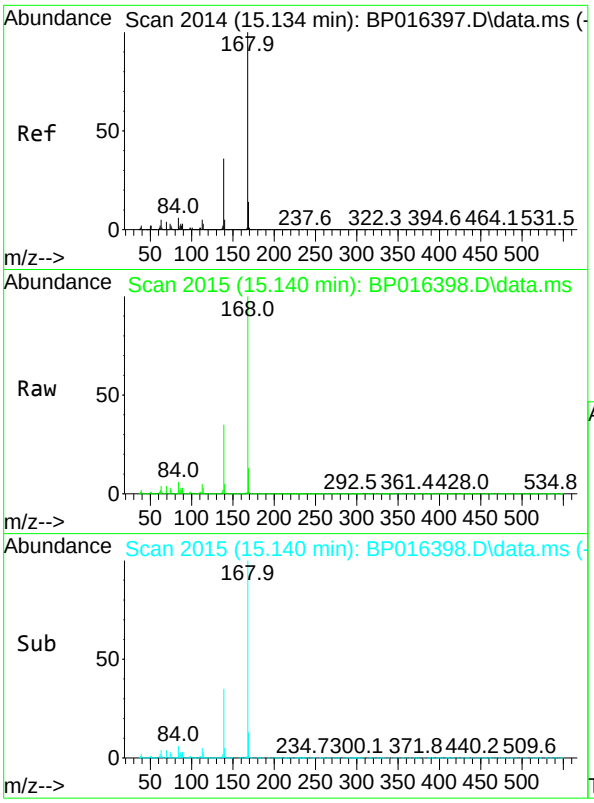


#54
2,4-Dinitrophenol
Concen: 47.079 ng
RT: 14.863 min Scan# 1968
Delta R.T. 0.000 min
Lab File: BP016398.D
Acq: 27 Jul 2023 13:55

Tgt Ion:184 Resp: 398663

Ion	Ratio	Lower	Upper
184	100		
63	57.5	48.2	72.4
154	58.7	49.6	74.4



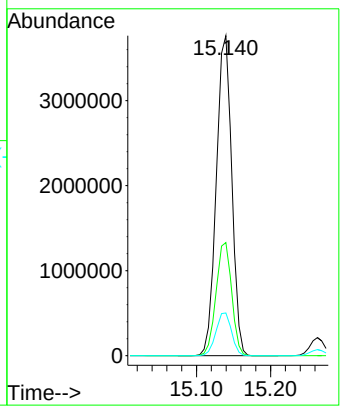


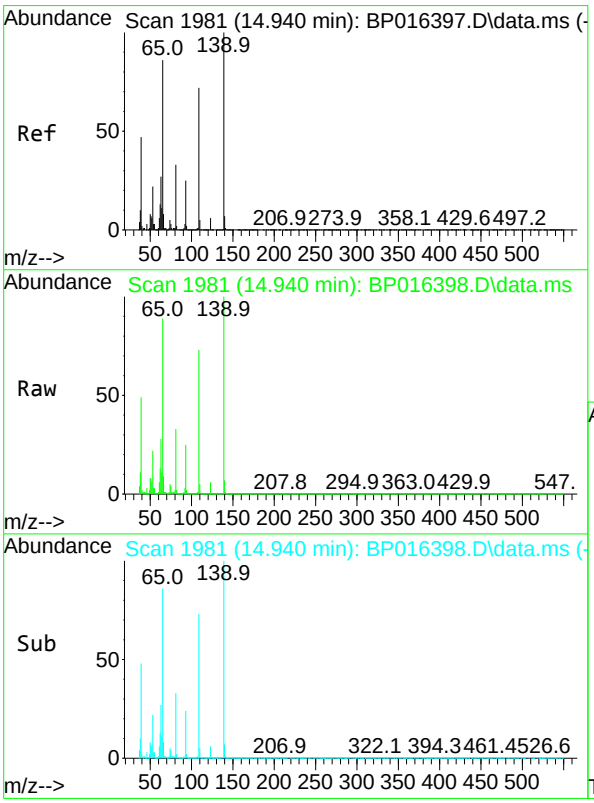
#55
Dibenzofuran
Concen: 47.575 ng
RT: 15.140 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP016398.D
Acq: 27 Jul 2023 13:55

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:168 Resp: 5443019

Ion	Ratio	Lower	Upper
168	100		
139	35.4	28.9	43.3
169	13.4	11.0	16.4

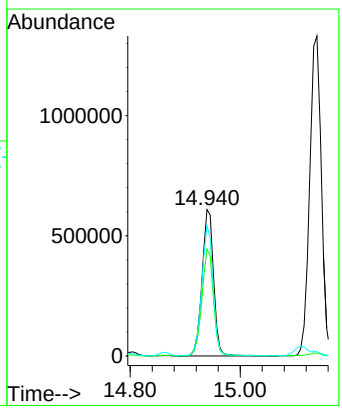


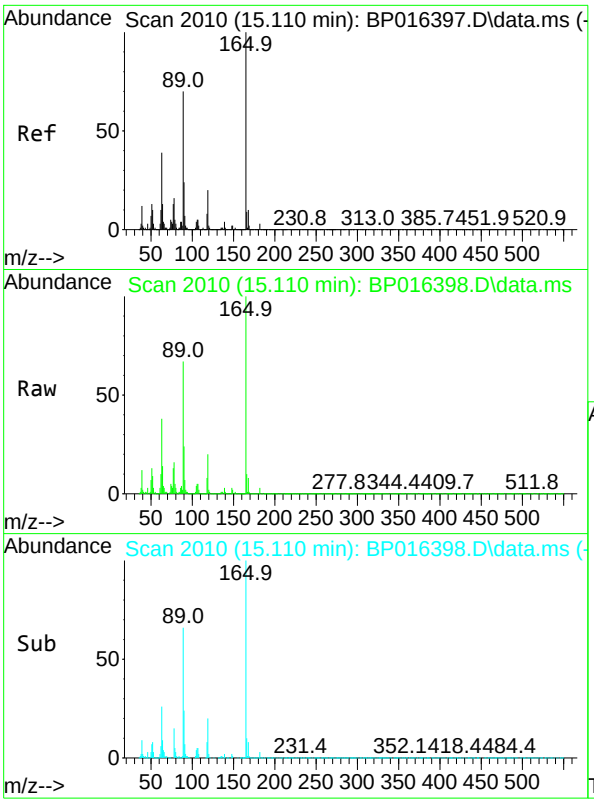


#56
4-Nitrophenol
Concen: 51.014 ng
RT: 14.940 min Scan# 1981
Delta R.T. 0.000 min
Lab File: BP016398.D
Acq: 27 Jul 2023 13:55

Tgt Ion:139 Resp: 886073

Ion	Ratio	Lower	Upper
139	100		
109	72.9	51.9	91.9
65	89.0	66.2	106.2



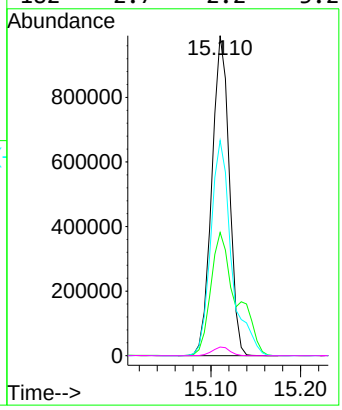


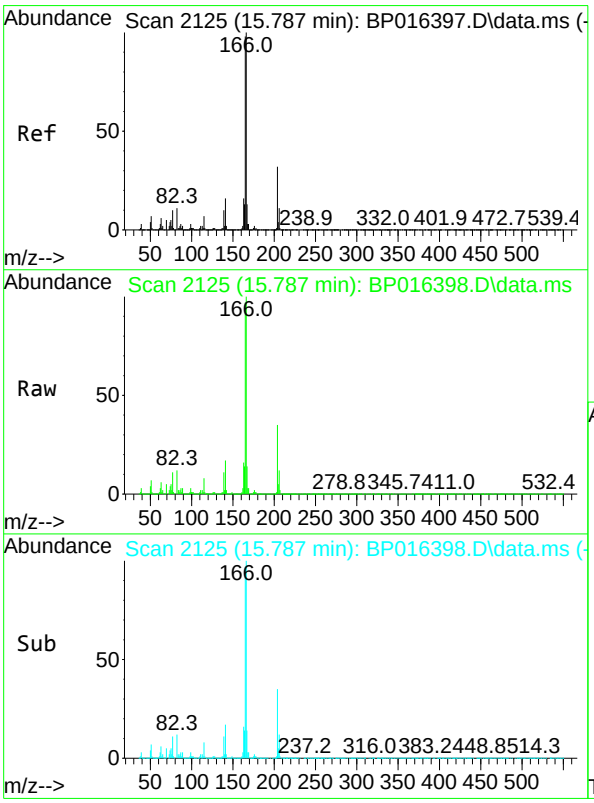
#57
2,4-Dinitrotoluene
Concen: 52.326 ng
RT: 15.110 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP016398.D
Acq: 27 Jul 2023 13:55

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:165 Resp: 1338402

Ion	Ratio	Lower	Upper
165	100		
63	38.5	31.4	47.0
89	67.3	55.8	83.6
182	2.7	2.2	3.2

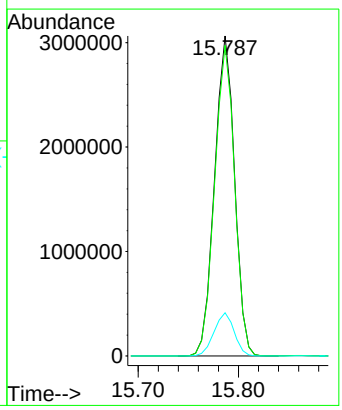


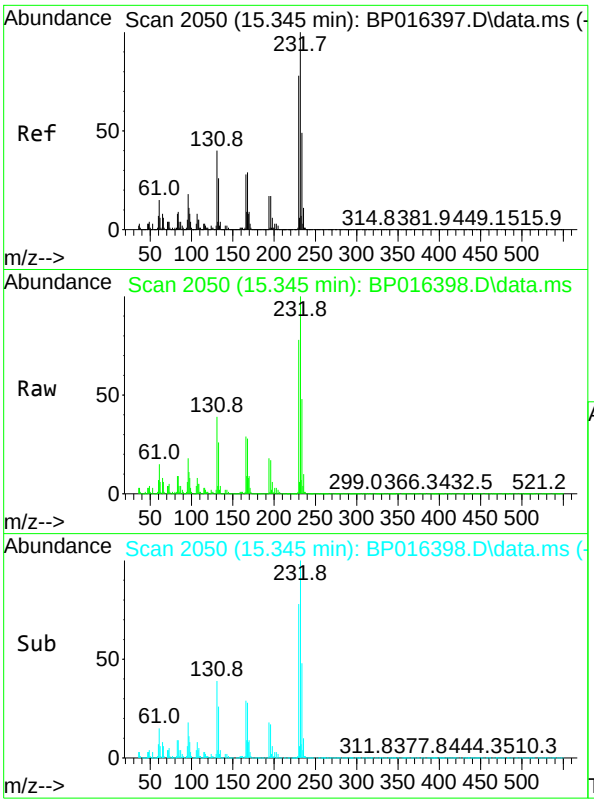


#58
Fluorene
Concen: 47.209 ng
RT: 15.787 min Scan# 2125
Delta R.T. 0.000 min
Lab File: BP016398.D
Acq: 27 Jul 2023 13:55

Tgt Ion:166 Resp: 4243242

Ion	Ratio	Lower	Upper
166	100		
165	97.1	78.0	117.0
167	13.5	10.6	16.0



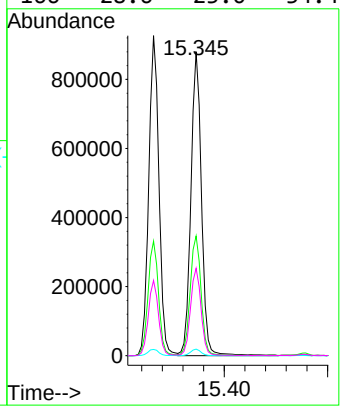


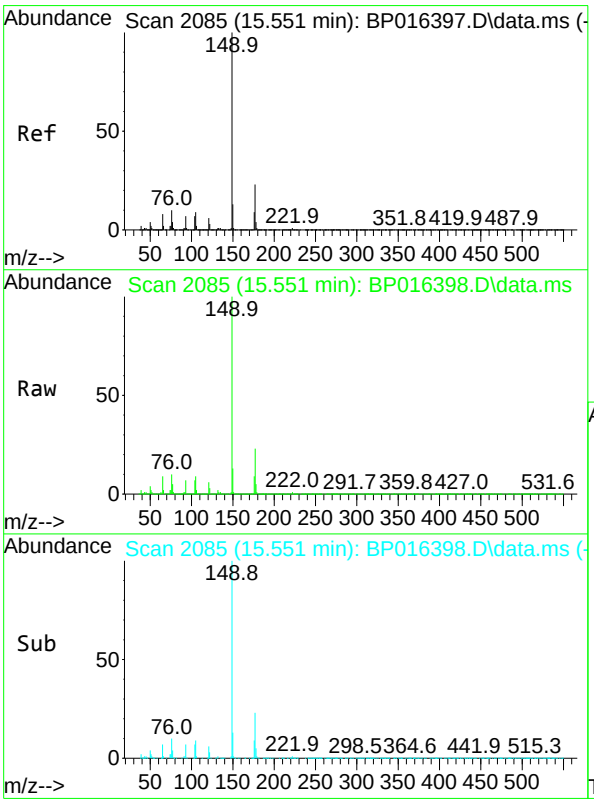
#59
2,3,4,6-Tetrachlorophenol
Concen: 52.211 ng
RT: 15.345 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP016398.D
Acq: 27 Jul 2023 13:55

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:232 Resp: 1249111

Ion	Ratio	Lower	Upper
232	100		
131	40.3	33.1	49.7
130	2.2	1.8	2.8
166	28.6	23.0	34.4

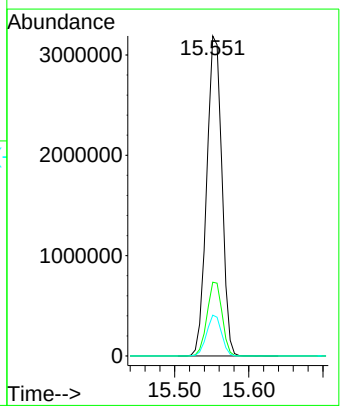


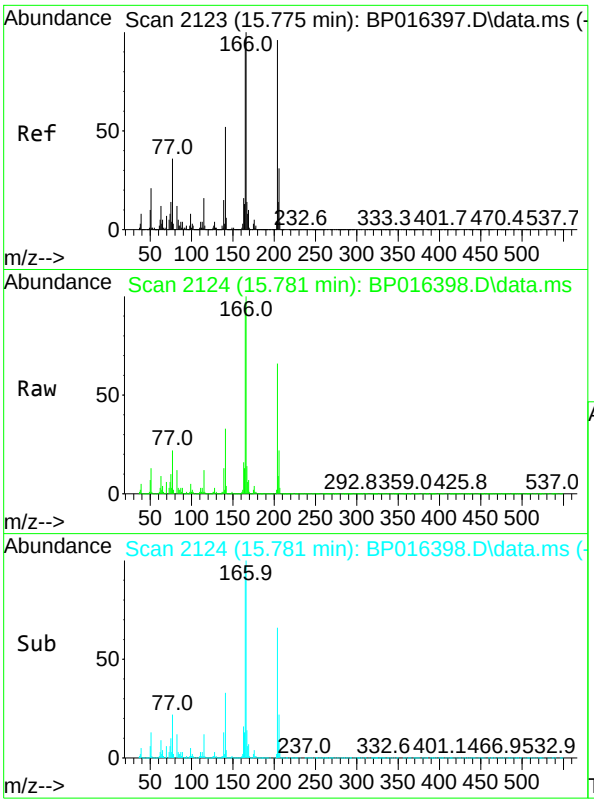


#60
Diethylphthalate
Concen: 47.456 ng
RT: 15.551 min Scan# 2085
Delta R.T. 0.000 min
Lab File: BP016398.D
Acq: 27 Jul 2023 13:55

Tgt Ion:149 Resp: 4518160

Ion	Ratio	Lower	Upper
149	100		
177	23.0	18.6	27.8
150	12.8	10.1	15.1



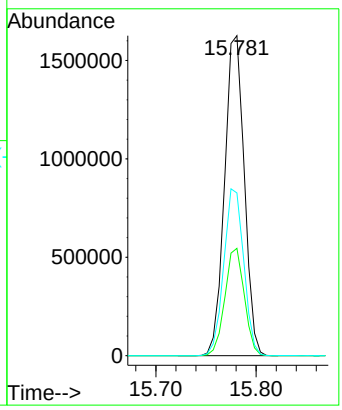


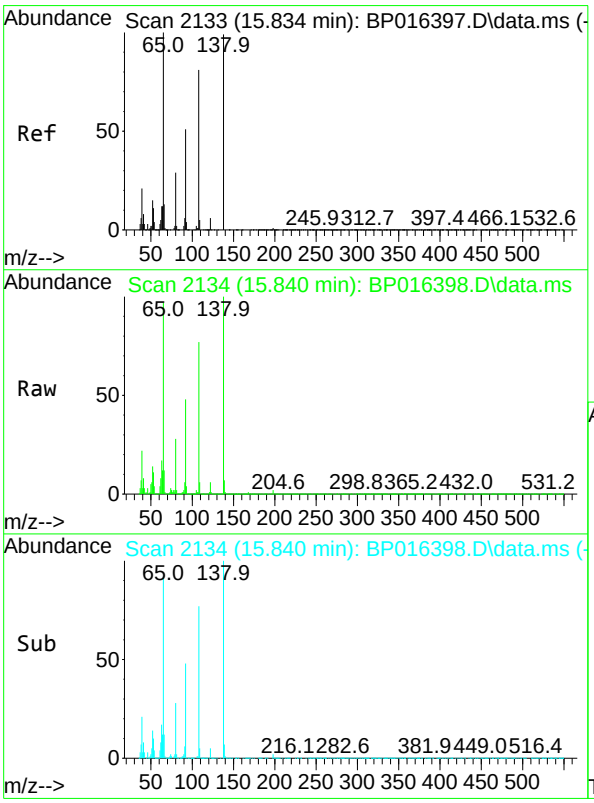
#61
4-Chlorophenyl-phenylether
Concen: 48.873 ng
RT: 15.781 min Scan# 21
Delta R.T. 0.006 min
Lab File: BP016398.D
Acq: 27 Jul 2023 13:55

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:204 Resp: 2216722

Ion	Ratio	Lower	Upper
204	100		
206	33.6	26.2	39.4
141	50.9	43.4	65.0

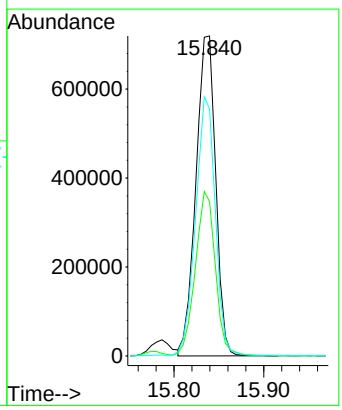


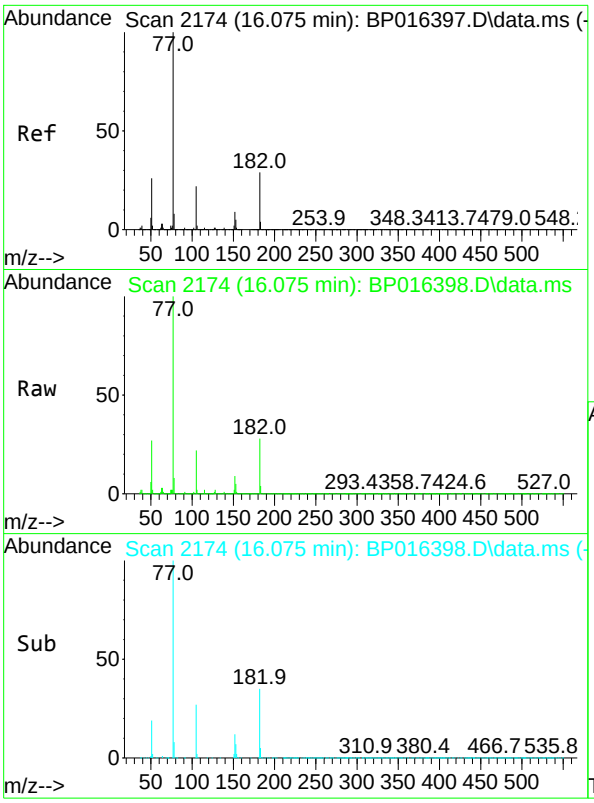


#62
4-Nitroaniline
Concen: 50.011 ng
RT: 15.840 min Scan# 2134
Delta R.T. 0.006 min
Lab File: BP016398.D
Acq: 27 Jul 2023 13:55

Tgt Ion:138 Resp: 1101259

Ion	Ratio	Lower	Upper
138	100		
92	48.3	30.3	70.3
108	77.3	60.1	100.1



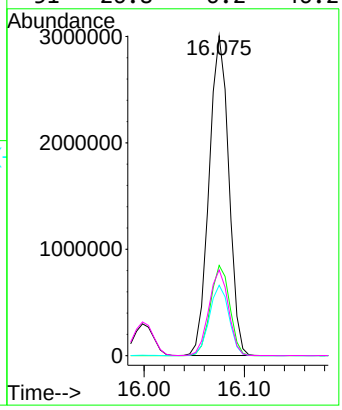


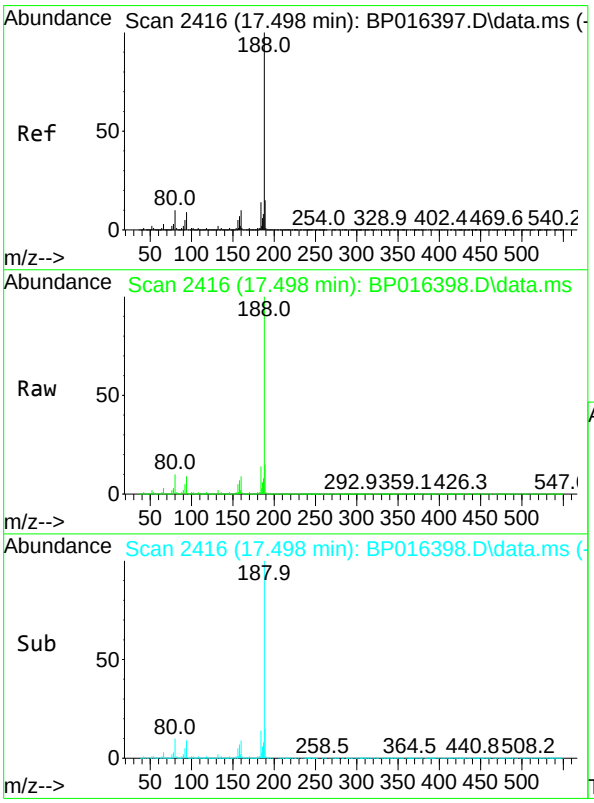
#63
Azobenzene
Concen: 45.668 ng
RT: 16.075 min Scan# 21
Delta R.T. 0.000 min
Lab File: BP016398.D
Acq: 27 Jul 2023 13:55

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion: 77 Resp: 4105439

Ion	Ratio	Lower	Upper
77	100		
182	28.2	8.6	48.6
105	22.0	2.4	42.4
51	26.8	6.2	46.2

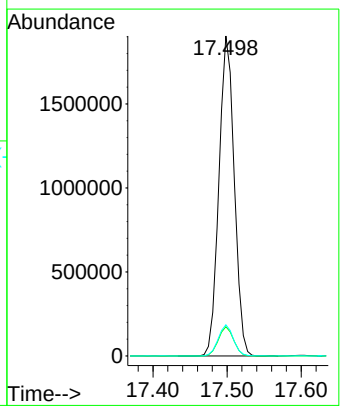


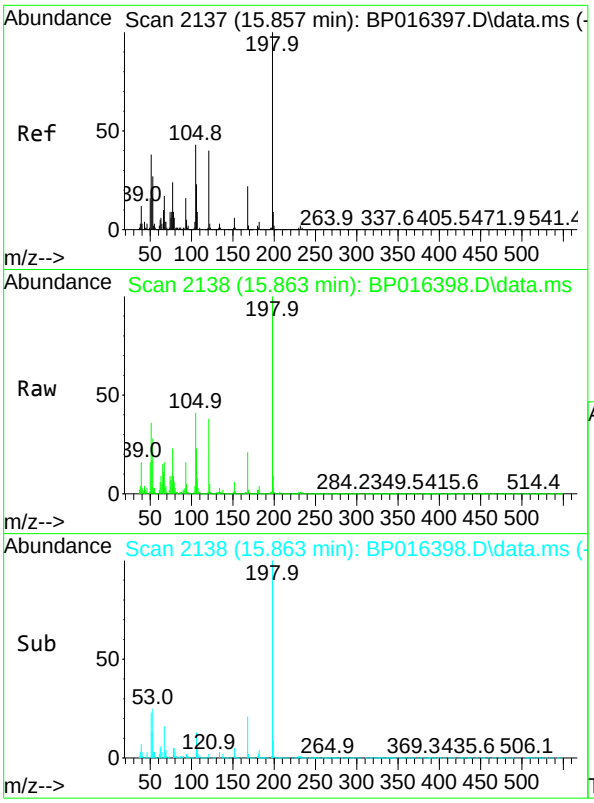


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.498 min Scan# 2416
Delta R.T. 0.000 min
Lab File: BP016398.D
Acq: 27 Jul 2023 13:55

Tgt Ion:188 Resp: 2737145

Ion	Ratio	Lower	Upper
188	100		
94	9.2	7.4	11.0
80	9.7	7.8	11.8



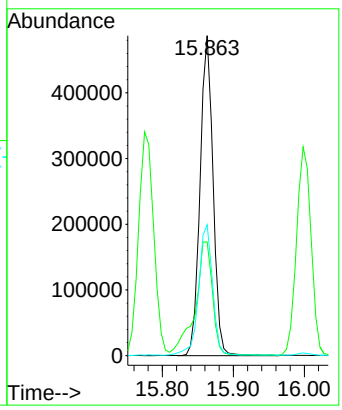


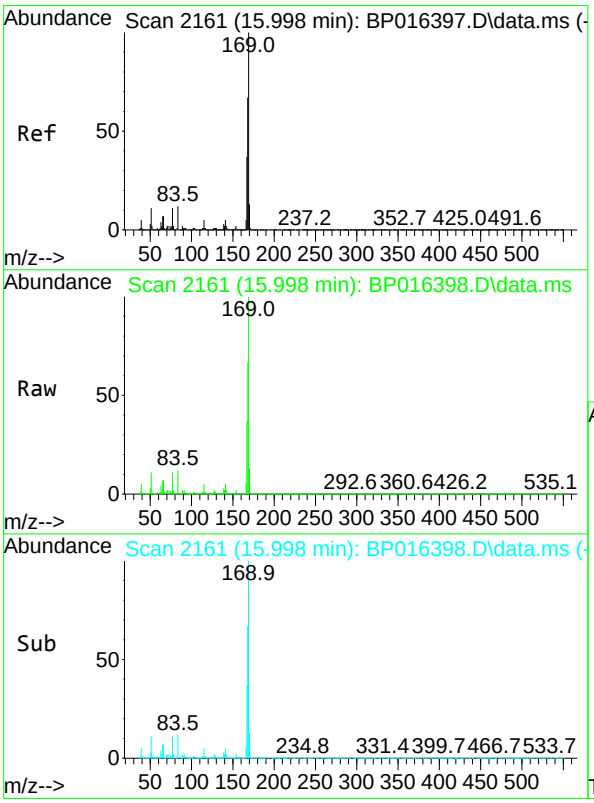
#65
4,6-Dinitro-2-methylphenol
Concen: 48.489 ng
RT: 15.863 min Scan# 21
Delta R.T. 0.006 min
Lab File: BP016398.D
Acq: 27 Jul 2023 13:55

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:198 Resp: 622396

Ion	Ratio	Lower	Upper
198	100		
51	35.6	20.1	60.1
105	40.9	23.1	63.1

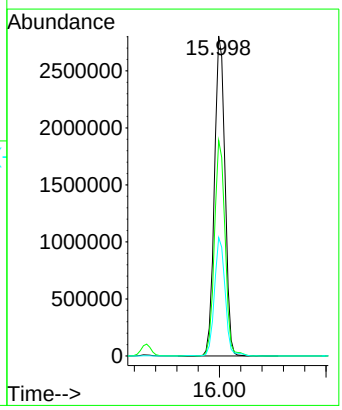


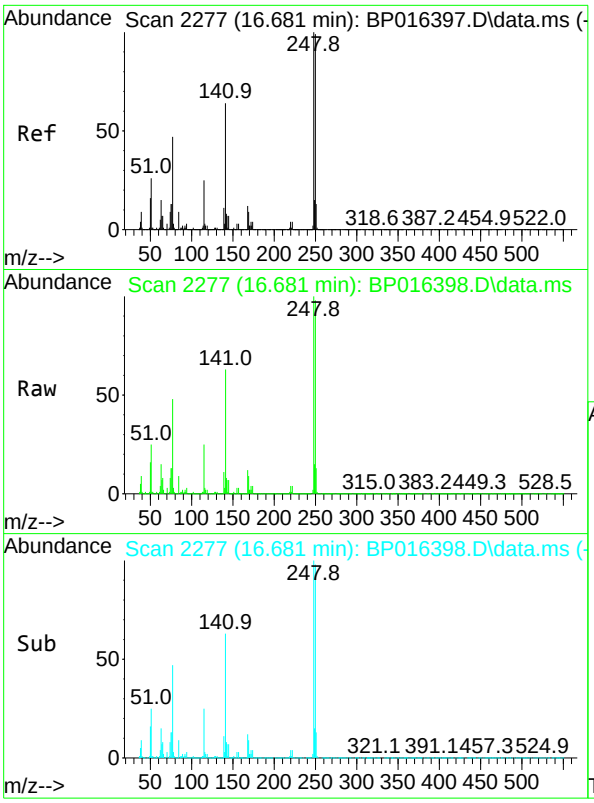


#66
n-Nitrosodiphenylamine
Concen: 47.720 ng
RT: 15.998 min Scan# 2161
Delta R.T. 0.000 min
Lab File: BP016398.D
Acq: 27 Jul 2023 13:55

Tgt Ion:169 Resp: 3849376

Ion	Ratio	Lower	Upper
169	100		
168	67.3	53.6	80.4
167	37.0	29.2	43.8



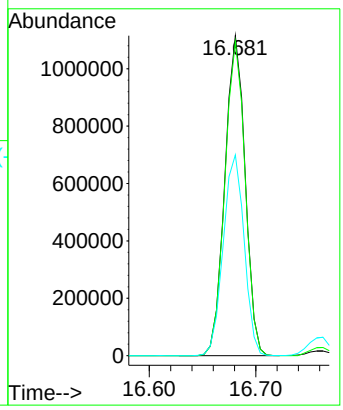


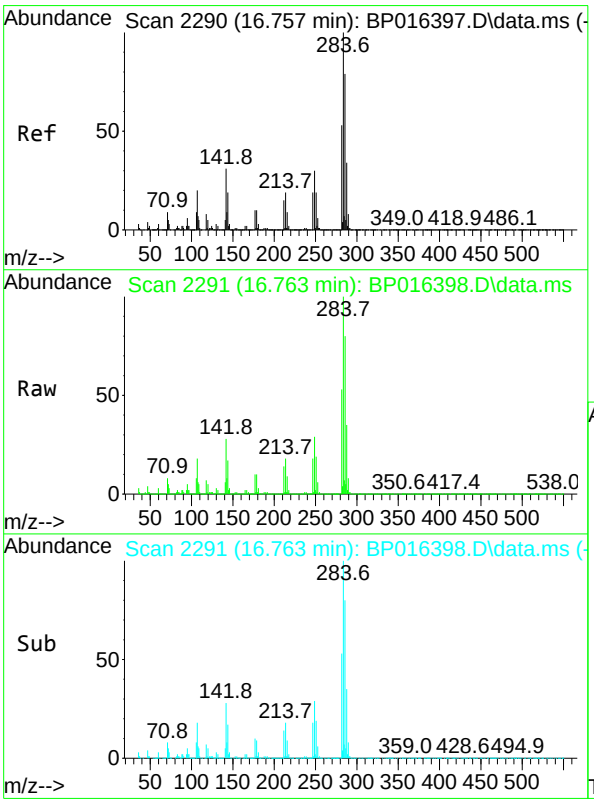
#67
4-Bromophenyl-phenylether
Concen: 50.831 ng
RT: 16.681 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP016398.D
Acq: 27 Jul 2023 13:55

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:248 Resp: 1473241

Ion	Ratio	Lower	Upper
248	100		
250	98.3	78.9	118.3
141	62.7	51.0	76.4

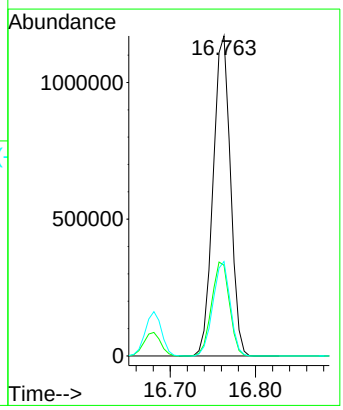


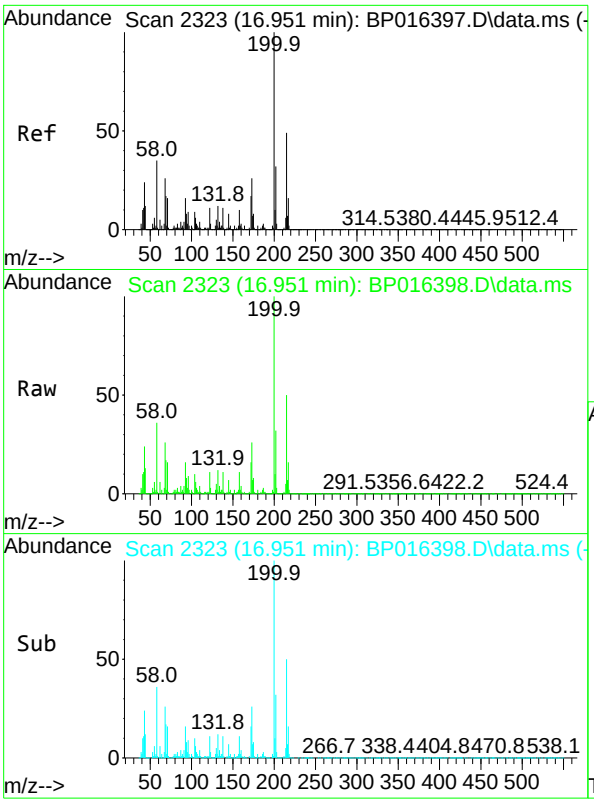


#68
Hexachlorobenzene
Concen: 51.108 ng
RT: 16.763 min Scan# 2291
Delta R.T. 0.006 min
Lab File: BP016398.D
Acq: 27 Jul 2023 13:55

Tgt Ion:284 Resp: 1651862

Ion	Ratio	Lower	Upper
284	100		
142	28.4	25.2	37.8
249	31.9	26.0	39.0



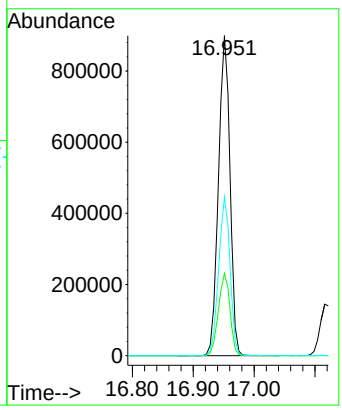


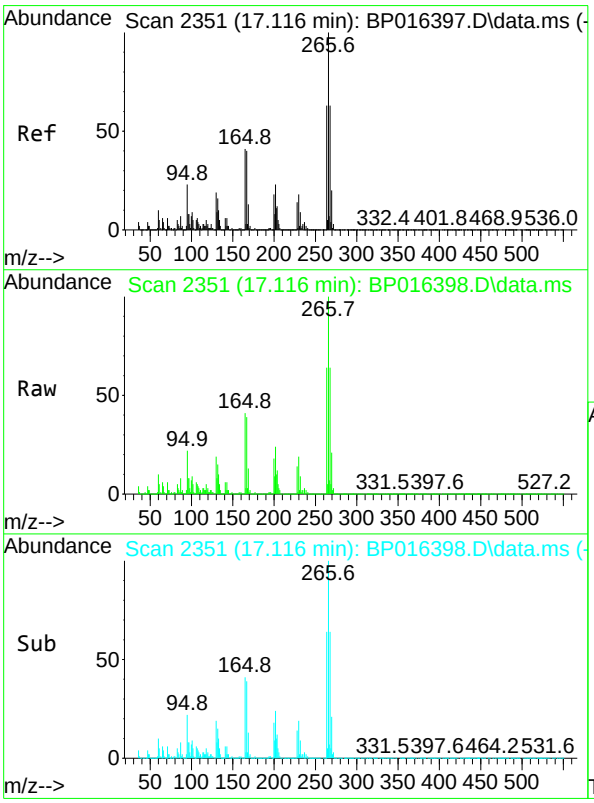
#69
Atrazine
Concen: 49.335 ng
RT: 16.951 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP016398.D
Acq: 27 Jul 2023 13:55

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:200 Resp: 1183531

Ion	Ratio	Lower	Upper
200	100		
173	25.7	5.8	45.8
215	49.7	29.2	69.2

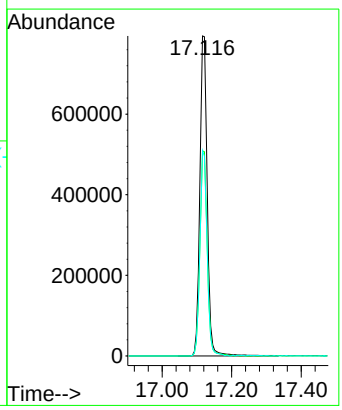


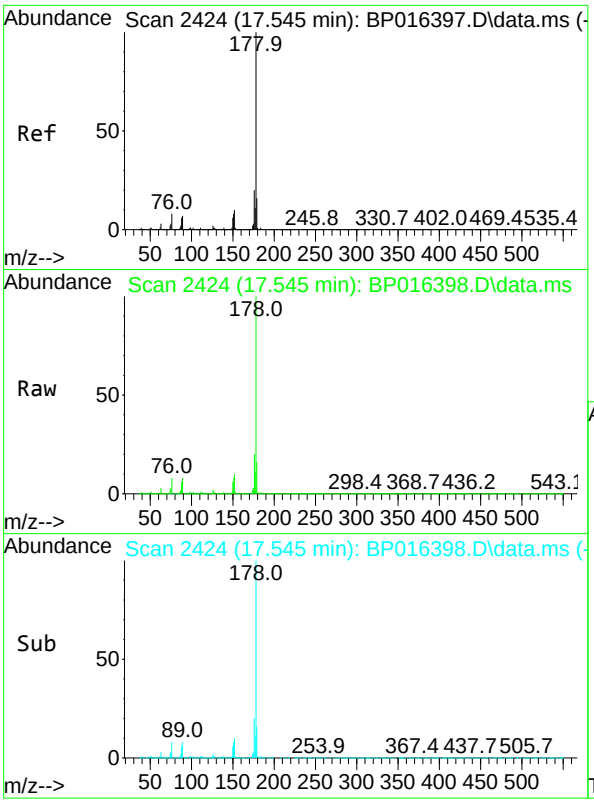


#70
Pentachlorophenol
Concen: 52.467 ng
RT: 17.116 min Scan# 2351
Delta R.T. -0.000 min
Lab File: BP016398.D
Acq: 27 Jul 2023 13:55

Tgt Ion:266 Resp: 1173526

Ion	Ratio	Lower	Upper
266	100		
268	68.8	53.9	80.9
264	69.1	54.9	82.3



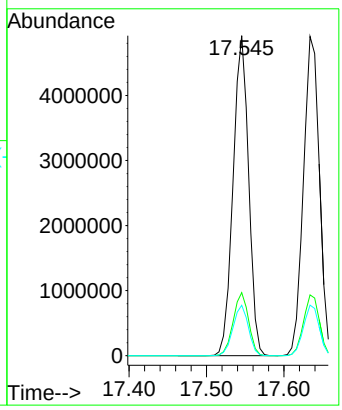


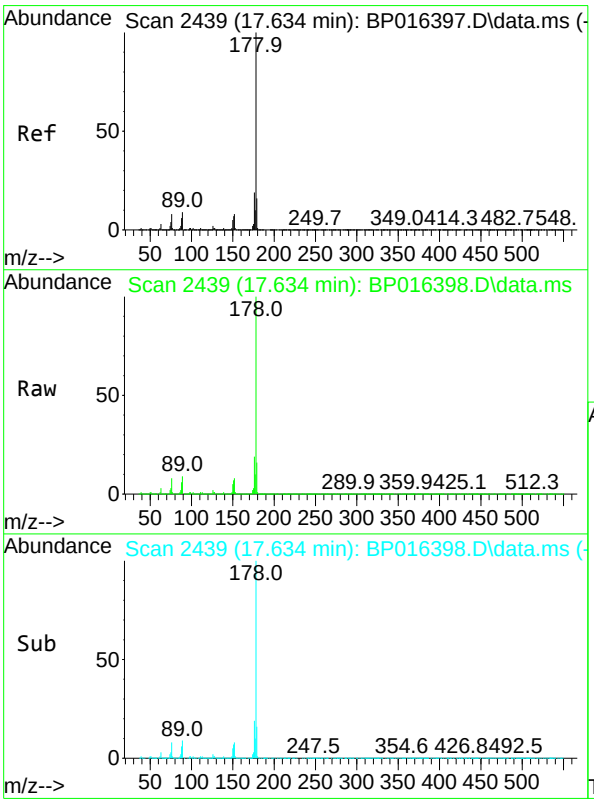
#71
Phenanthrene
Concen: 47.272 ng
RT: 17.545 min Scan# 24
Delta R.T. 0.000 min
Lab File: BP016398.D
Acq: 27 Jul 2023 13:55

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:178 Resp: 6870489

Ion	Ratio	Lower	Upper
178	100		
176	19.7	15.8	23.8
179	15.8	12.4	18.6

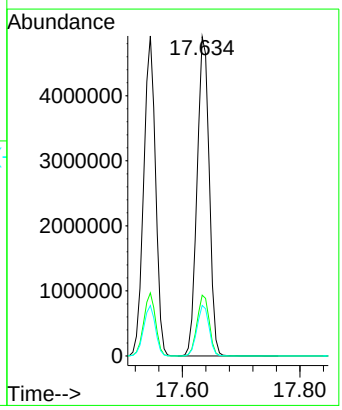


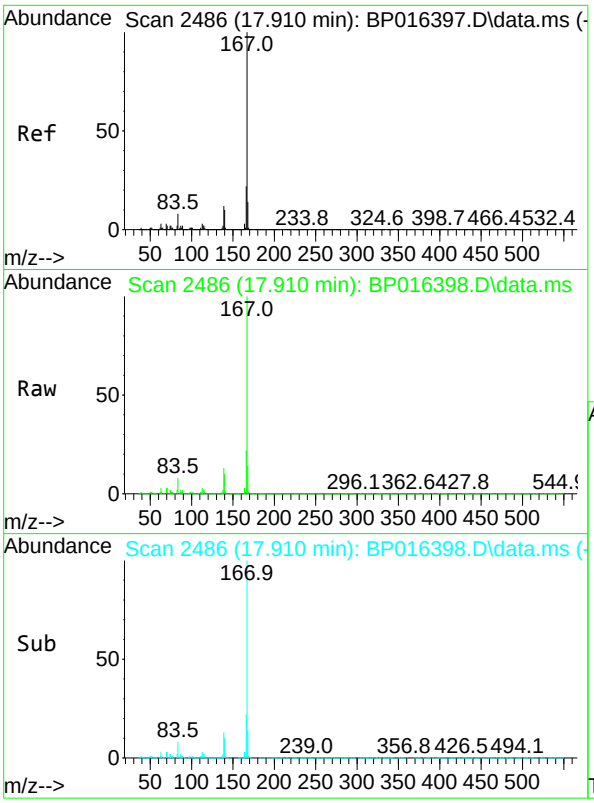


#72
Anthracene
Concen: 48.064 ng
RT: 17.634 min Scan# 2439
Delta R.T. 0.000 min
Lab File: BP016398.D
Acq: 27 Jul 2023 13:55

Tgt Ion:178 Resp: 7024399

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.2	22.8
179	15.8	12.6	19.0



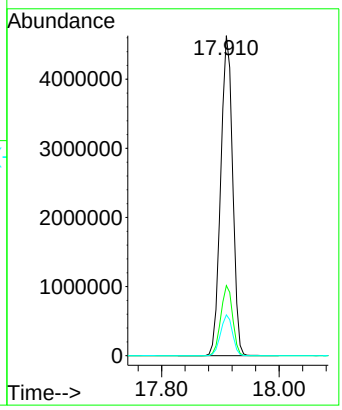


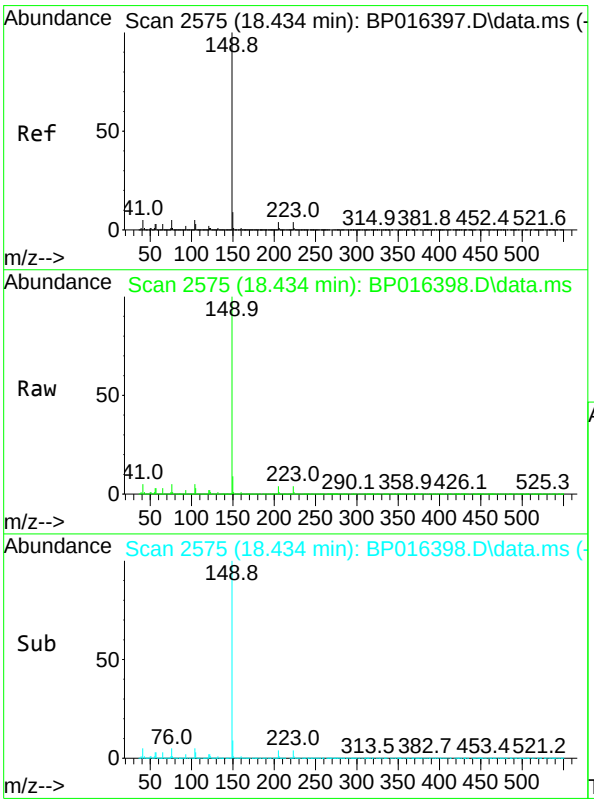
#73
Carbazole
Concen: 47.494 ng
RT: 17.910 min Scan# 24
Delta R.T. 0.000 min
Lab File: BP016398.D
Acq: 27 Jul 2023 13:55

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:167 Resp: 6507527

Ion	Ratio	Lower	Upper
167	100		
166	21.9	17.2	25.8
139	12.8	9.9	14.9

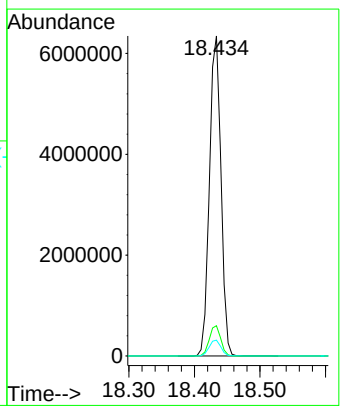


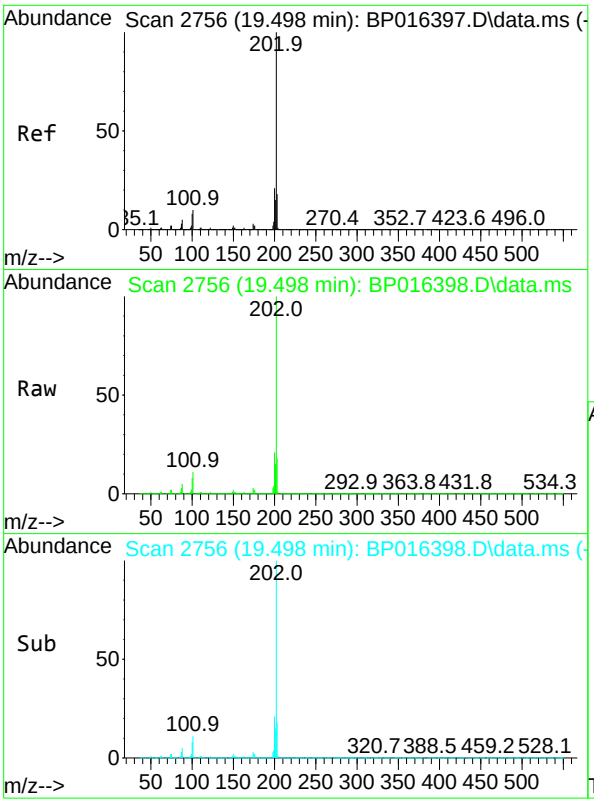


#74
Di-n-butylphthalate
Concen: 48.881 ng
RT: 18.434 min Scan# 2575
Delta R.T. 0.000 min
Lab File: BP016398.D
Acq: 27 Jul 2023 13:55

Tgt Ion:149 Resp: 7748598

Ion	Ratio	Lower	Upper
149	100		
150	9.5	7.4	11.2
104	4.9	3.8	5.8



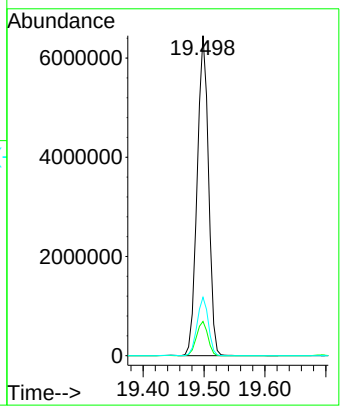


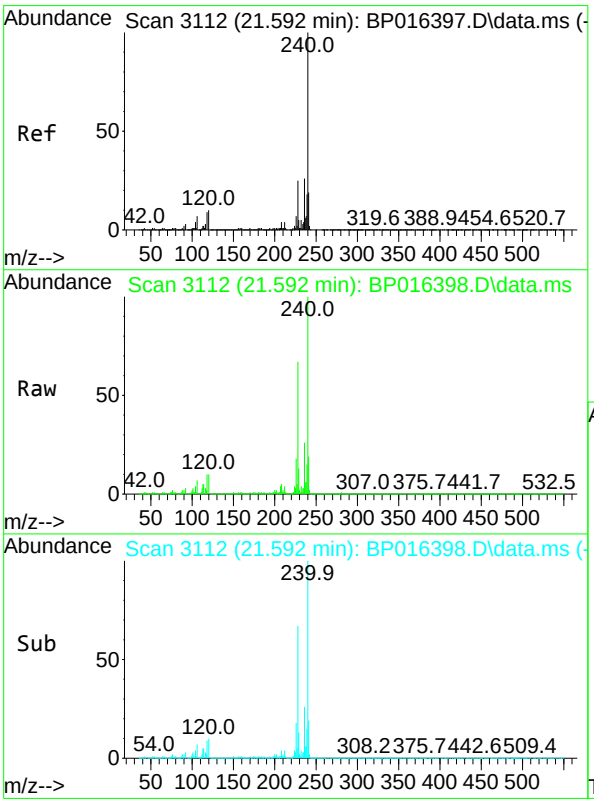
#75
Fluoranthene
Concen: 49.095 ng
RT: 19.498 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP016398.D
Acq: 27 Jul 2023 13:55

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:202 Resp: 8363408

Ion	Ratio	Lower	Upper
202	100		
101	10.7	0.0	30.2
203	18.2	0.0	37.9

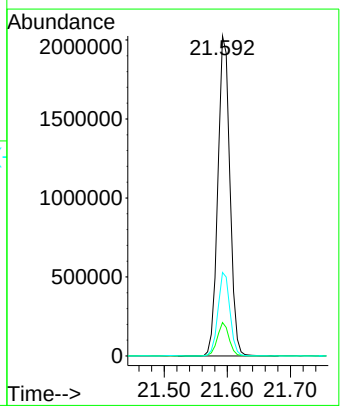


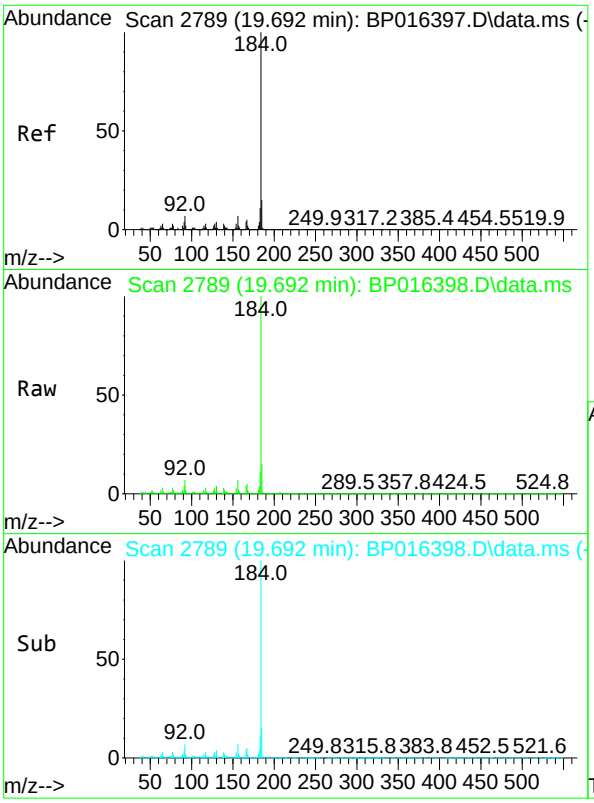


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.592 min Scan# 3112
Delta R.T. 0.000 min
Lab File: BP016398.D
Acq: 27 Jul 2023 13:55

Tgt Ion:240 Resp: 2673393

Ion	Ratio	Lower	Upper
240	100		
120	10.4	7.9	11.9
236	26.1	21.1	31.7



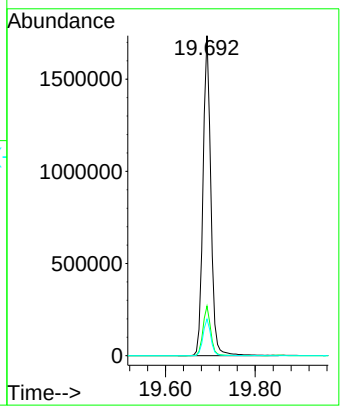


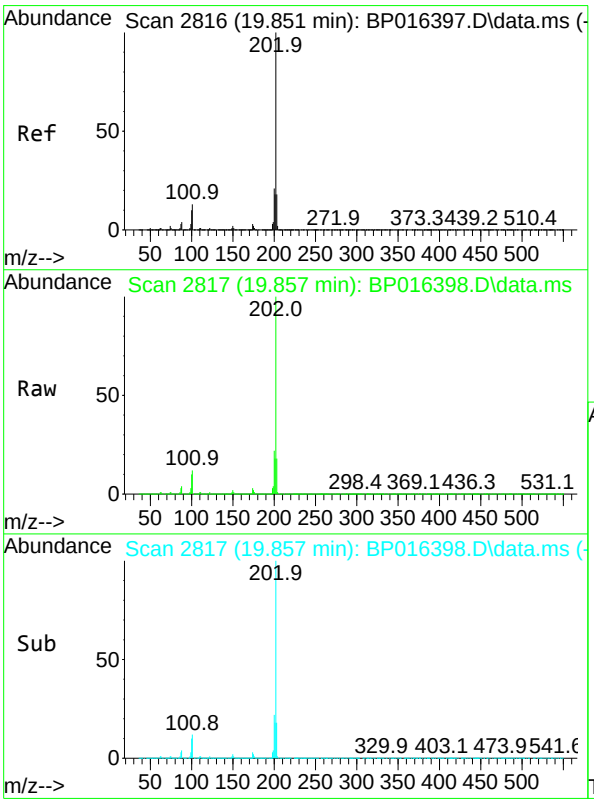
#77
Benzidine
Concen: 45.497 ng
RT: 19.692 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP016398.D
Acq: 27 Jul 2023 13:55

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:184 Resp: 2108796

Ion	Ratio	Lower	Upper
184	100		
185	15.5	12.0	18.0
183	11.5	9.2	13.8

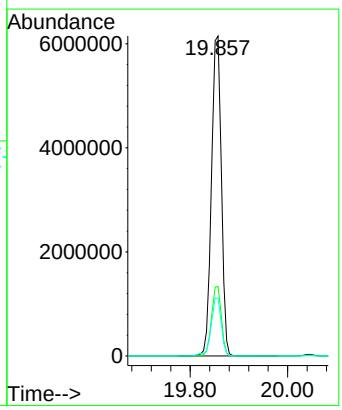


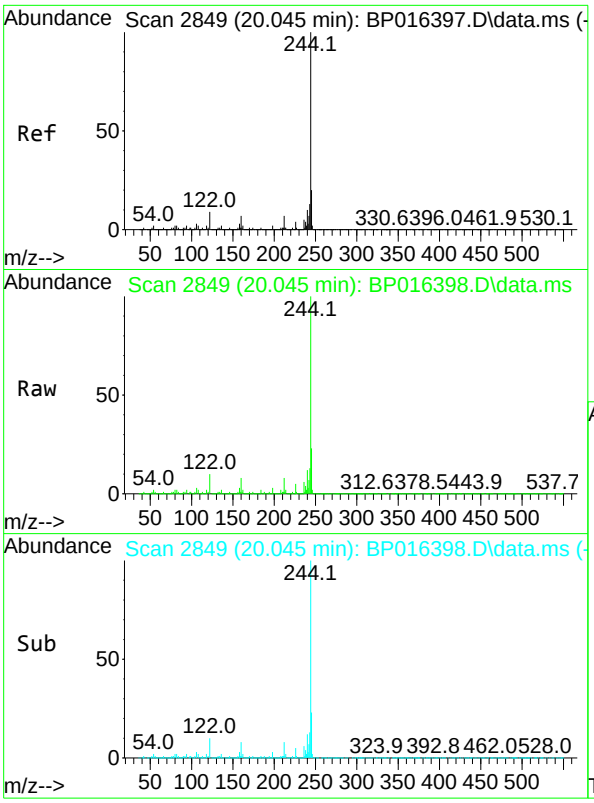


#78
Pyrene
Concen: 48.129 ng
RT: 19.857 min Scan# 2817
Delta R.T. 0.006 min
Lab File: BP016398.D
Acq: 27 Jul 2023 13:55

Tgt Ion:202 Resp: 8625275

Ion	Ratio	Lower	Upper
202	100		
200	21.7	17.1	25.7
203	18.0	14.4	21.6



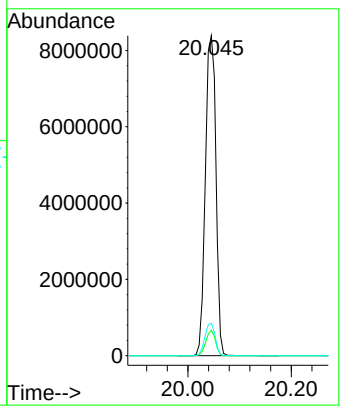


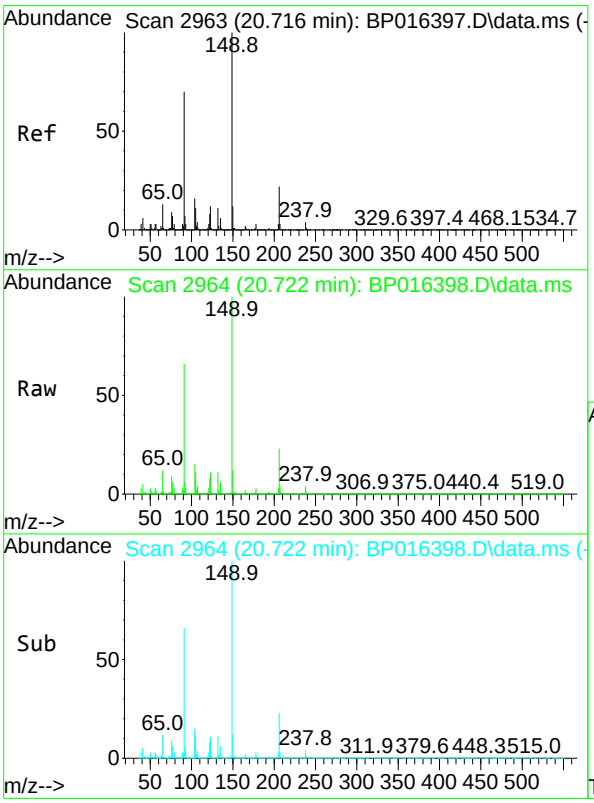
#79
Terphenyl-d14
Concen: 93.838 ng
RT: 20.045 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP016398.D
Acq: 27 Jul 2023 13:55

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:244 Resp:11875777

Ion	Ratio	Lower	Upper
244	100		
212	8.0	5.6	8.4
122	10.1	7.4	11.2

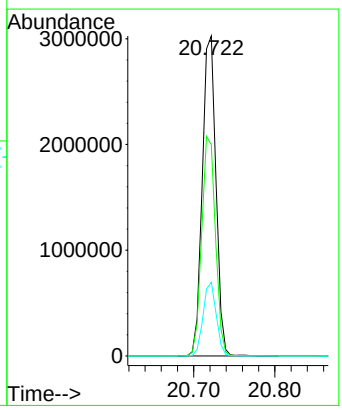


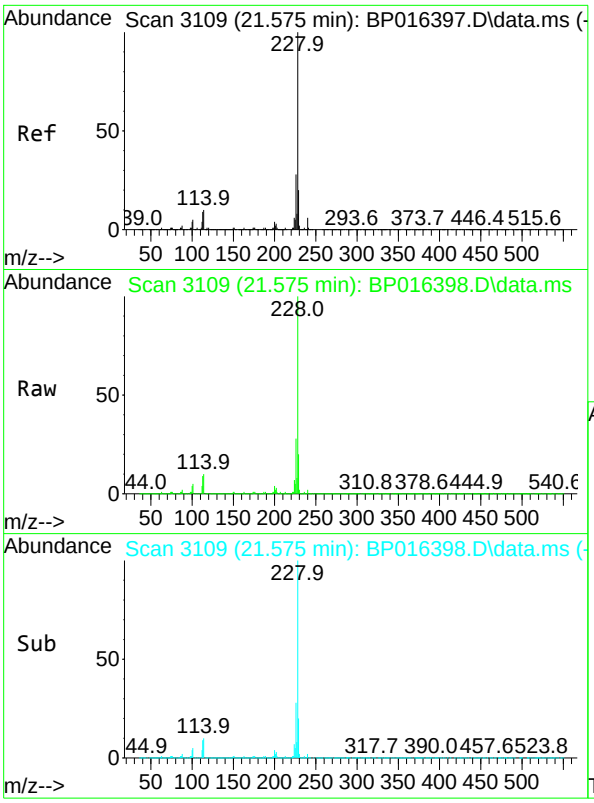


#80
Butylbenzylphthalate
Concen: 49.987 ng
RT: 20.722 min Scan# 2964
Delta R.T. 0.006 min
Lab File: BP016398.D
Acq: 27 Jul 2023 13:55

Tgt Ion:149 Resp: 3519337

Ion	Ratio	Lower	Upper
149	100		
91	66.0	56.1	84.1
206	23.0	17.8	26.6



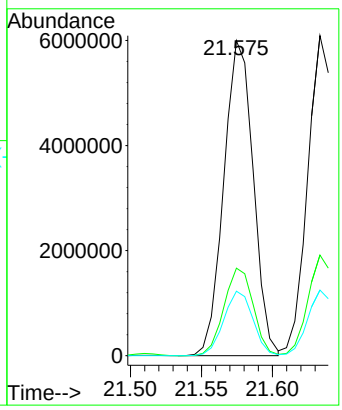


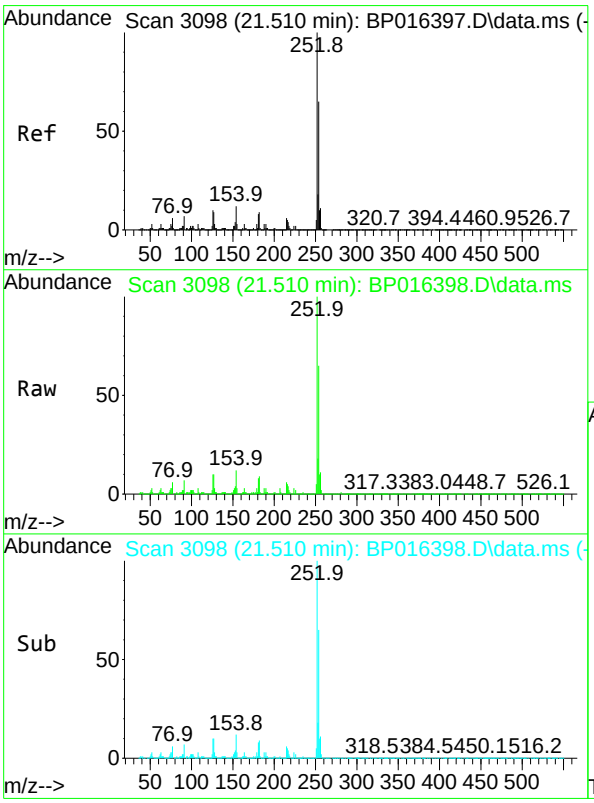
#81
Benzo(a)anthracene
Concen: 48.314 ng
RT: 21.575 min Scan# 31
Delta R.T. 0.000 min
Lab File: BP016398.D
Acq: 27 Jul 2023 13:55

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:228 Resp: 8666122

Ion	Ratio	Lower	Upper
228	100		
226	27.8	22.4	33.6
229	20.5	16.2	24.4

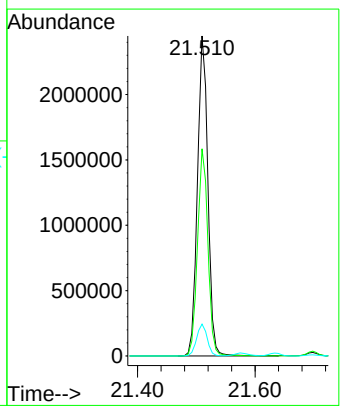


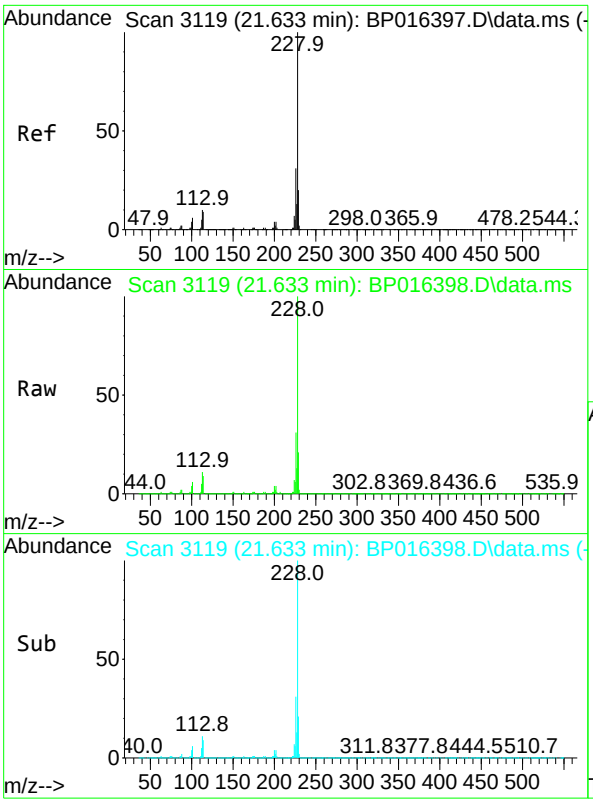


#82
3,3'-Dichlorobenzidine
Concen: 51.224 ng
RT: 21.510 min Scan# 3098
Delta R.T. 0.000 min
Lab File: BP016398.D
Acq: 27 Jul 2023 13:55

Tgt Ion:252 Resp: 3016195

Ion	Ratio	Lower	Upper
252	100		
254	64.7	52.2	78.2
126	9.9	7.8	11.6



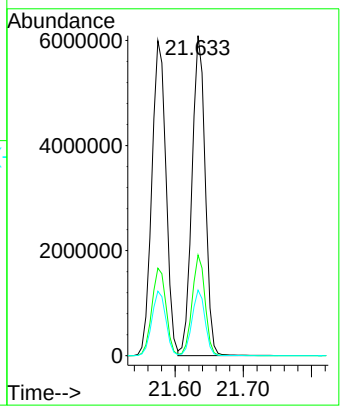


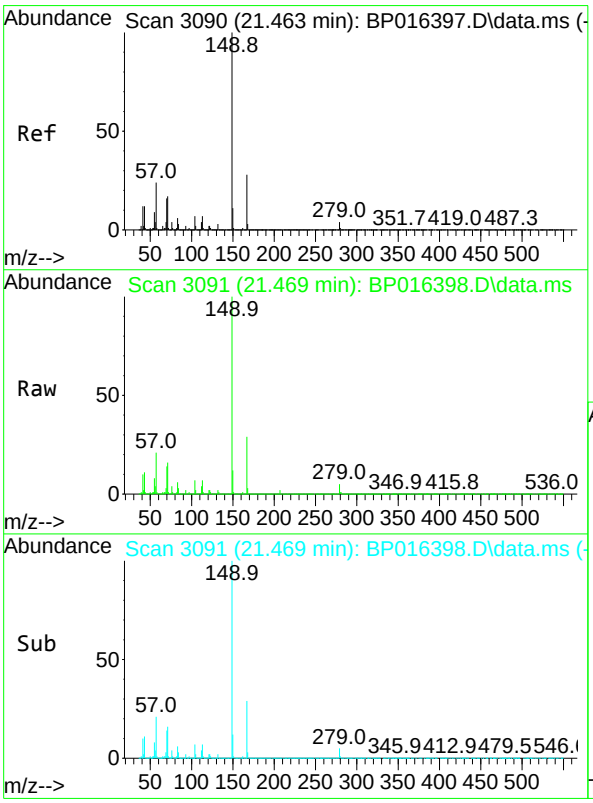
#83
Chrysene
Concen: 47.597 ng
RT: 21.633 min Scan# 3
Delta R.T. 0.000 min
Lab File: BP016398.D
Acq: 27 Jul 2023 13:55

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:228 Resp: 8152586

Ion	Ratio	Lower	Upper
228	100		
226	31.5	24.6	37.0
229	20.5	16.0	24.0

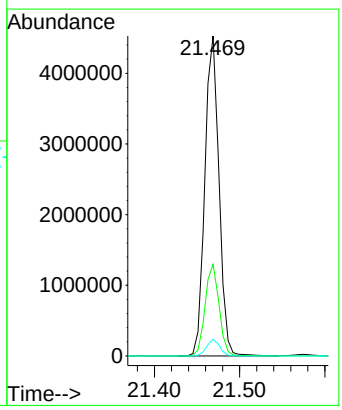


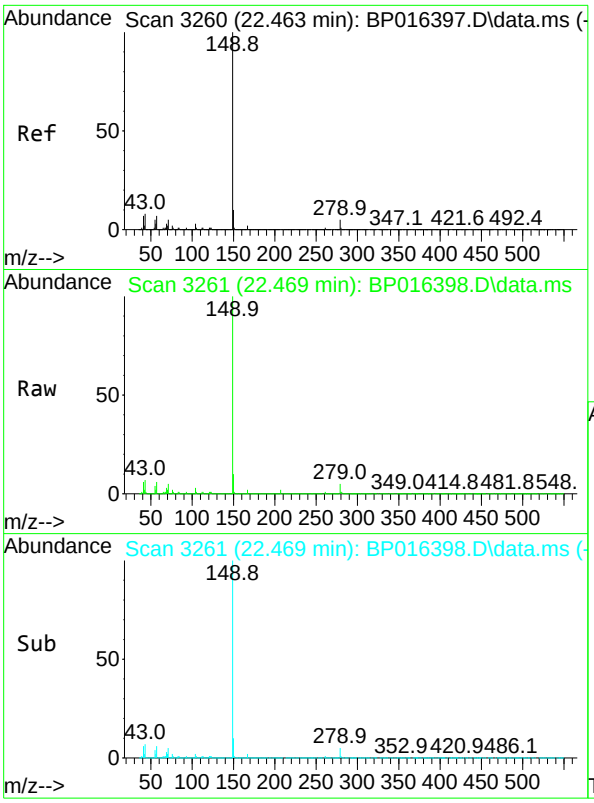


#84
Bis(2-ethylhexyl)phthalate
Concen: 49.260 ng
RT: 21.469 min Scan# 3091
Delta R.T. 0.006 min
Lab File: BP016398.D
Acq: 27 Jul 2023 13:55

Tgt Ion:149 Resp: 5206934

Ion	Ratio	Lower	Upper
149	100		
167	28.6	22.5	33.7
279	5.2	3.6	5.4



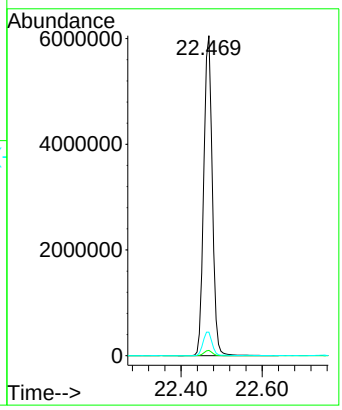


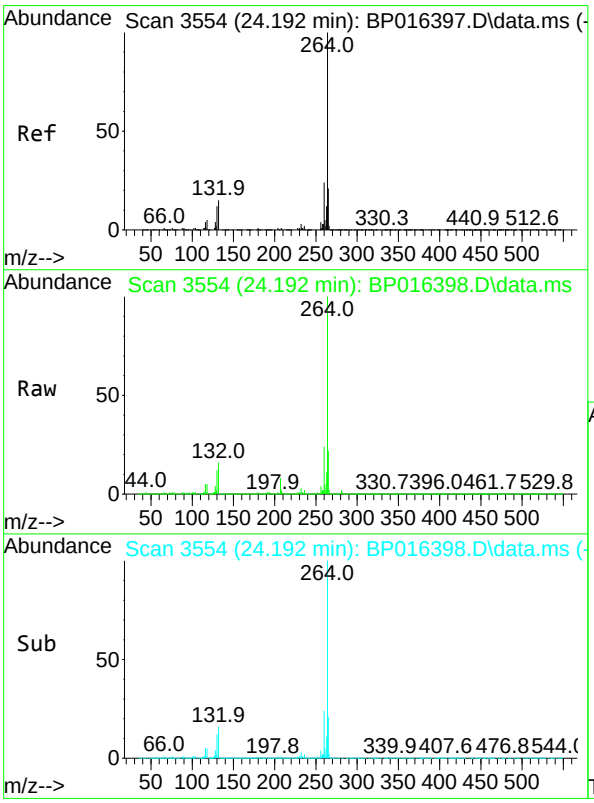
#85
Di-n-octyl phthalate
Concen: 49.508 ng
RT: 22.469 min Scan# 3
Delta R.T. 0.006 min
Lab File: BP016398.D
Acq: 27 Jul 2023 13:55

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:149 Resp: 8801233

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	7.9	6.6	9.8

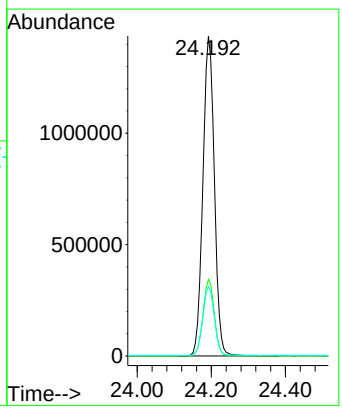


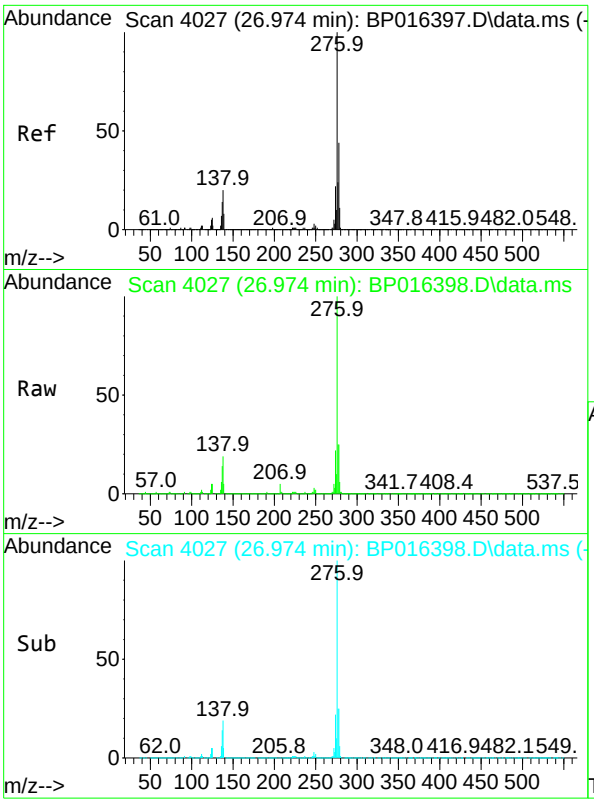


#86
Perylene-d12
Concen: 20.000 ng
RT: 24.192 min Scan# 3554
Delta R.T. 0.000 min
Lab File: BP016398.D
Acq: 27 Jul 2023 13:55

Tgt Ion:264 Resp: 3090129

Ion	Ratio	Lower	Upper
264	100		
260	23.9	19.3	28.9
265	21.6	17.4	26.0



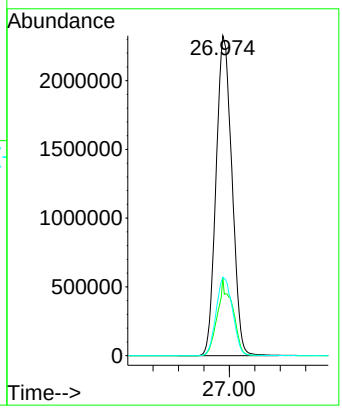


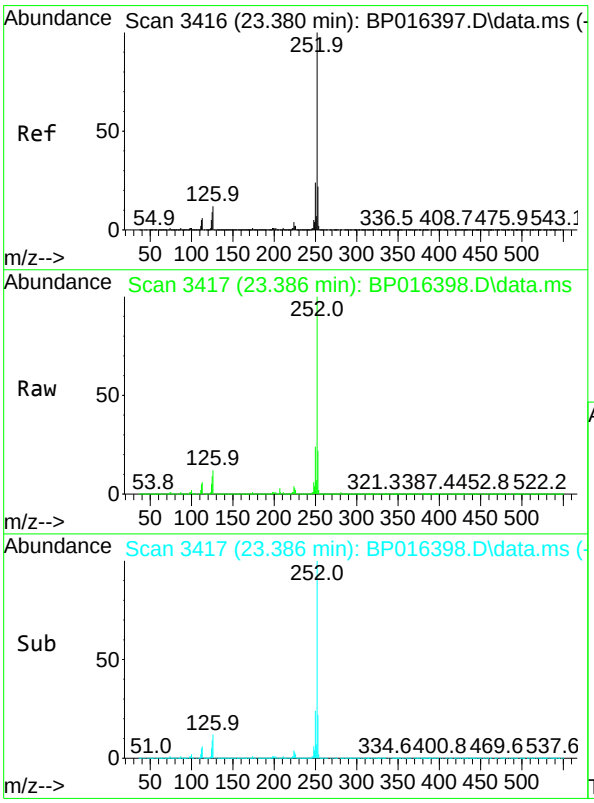
#87
Indeno(1,2,3-cd)pyrene
Concen: 48.382 ng
RT: 26.974 min Scan# 4
Delta R.T. 0.000 min
Lab File: BP016398.D
Acq: 27 Jul 2023 13:55

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:276 Resp:10079555

Ion	Ratio	Lower	Upper
276	100		
138	22.9	18.4	27.6
277	25.4	20.4	30.6

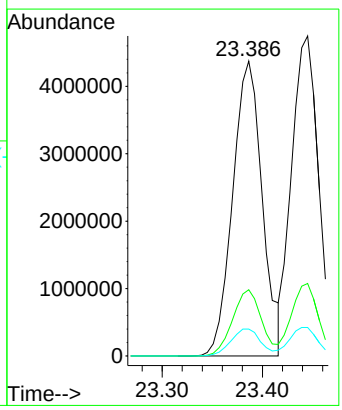


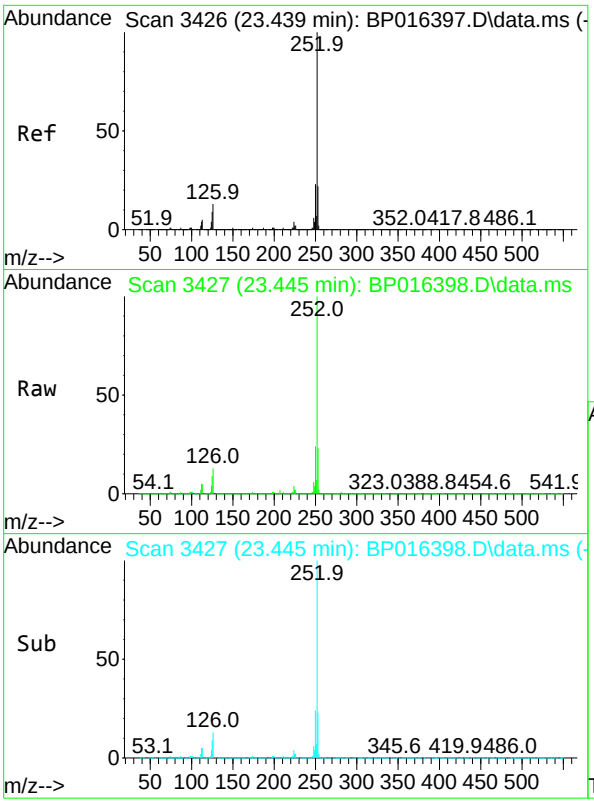


#88
Benzo(b)fluoranthene
Concen: 50.045 ng
RT: 23.386 min Scan# 3417
Delta R.T. 0.006 min
Lab File: BP016398.D
Acq: 27 Jul 2023 13:55

Tgt Ion:252 Resp: 8963426

Ion	Ratio	Lower	Upper
252	100		
253	22.5	17.8	26.8
125	9.1	7.4	11.2



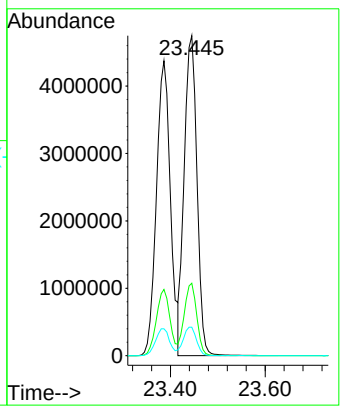


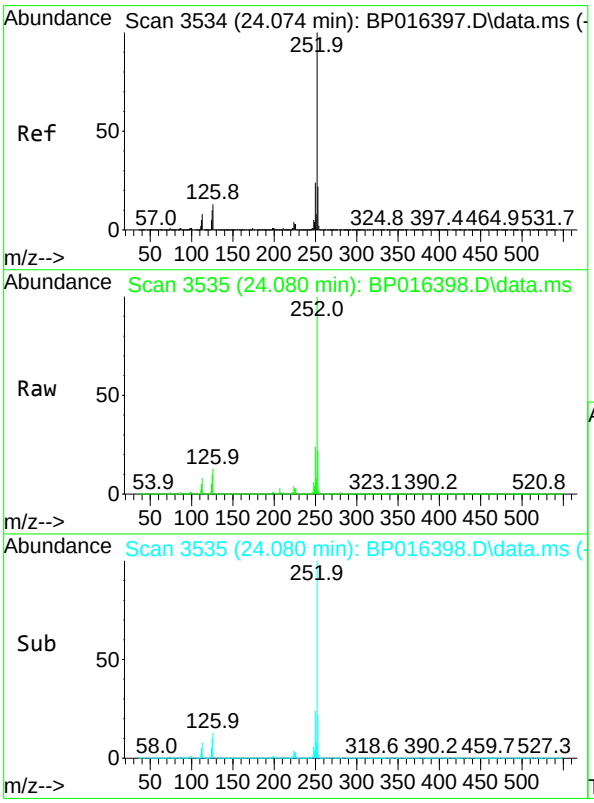
#89
Benzo(k)fluoranthene
Concen: 48.549 ng
RT: 23.445 min Scan# 3
Delta R.T. 0.006 min
Lab File: BP016398.D
Acq: 27 Jul 2023 13:55

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:252 Resp: 8844298

Ion	Ratio	Lower	Upper
252	100		
253	22.7	17.8	26.8
125	8.9	7.1	10.7

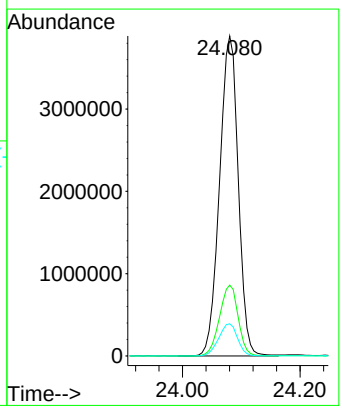


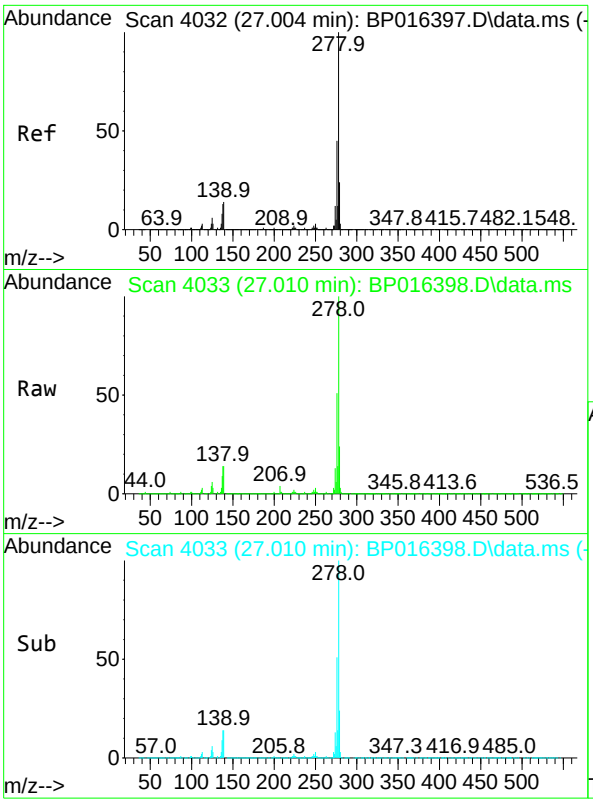


#90
Benzo(a)pyrene
Concen: 49.463 ng
RT: 24.080 min Scan# 3535
Delta R.T. 0.006 min
Lab File: BP016398.D
Acq: 27 Jul 2023 13:55

Tgt Ion:252 Resp: 8581829

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.8	26.6
125	10.0	8.3	12.5



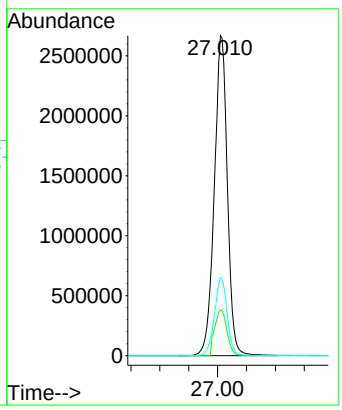


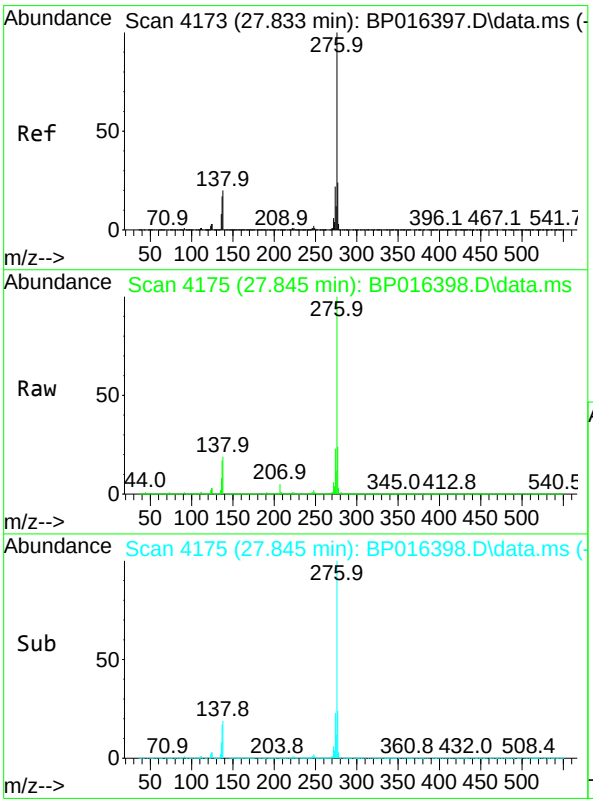
#91
Dibenzo(a,h)anthracene
Concen: 48.303 ng
RT: 27.010 min Scan# 4
Delta R.T. 0.006 min
Lab File: BP016398.D
Acq: 27 Jul 2023 13:55

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:278 Resp: 8392067

Ion	Ratio	Lower	Upper
278	100		
139	14.2	11.6	17.4
279	24.5	19.0	28.6

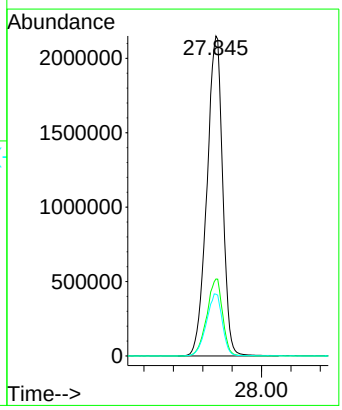




#92
Benzo(g,h,i)perylene
Concen: 47.644 ng
RT: 27.845 min Scan# 4175
Delta R.T. 0.012 min
Lab File: BP016398.D
Acq: 27 Jul 2023 13:55

Tgt Ion:276 Resp: 7976748

Ion	Ratio	Lower	Upper
276	100		
277	24.1	19.2	28.8
138	19.3	16.1	24.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP072723\
Data File : BP016399.D
Acq On : 27 Jul 2023 14:29
Operator : MA/JU
Sample : SSTDICC060
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 27 17:36:14 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP072723.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jul 27 17:32:49 2023
Response via : Initial Calibration

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	8.093	152	437444	20.000	ng		0.00
21) Naphthalene-d8	10.928	136	1722887	20.000	ng		0.00
39) Acenaphthene-d10	14.740	164	1072226	20.000	ng		0.00
64) Phenanthrene-d10	17.498	188	2443129	20.000	ng		0.00
76) Chrysene-d12	21.598	240	2476488	20.000	ng		0.00
86) Perylene-d12	24.198	264	2979370	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.605	112	3136008	116.955	ng		0.00
7) Phenol-d6	7.228	99	4300207	117.003	ng		0.00
23) Nitrobenzene-d5	9.293	82	3696545	120.105	ng		0.00
42) 2,4,6-Tribromophenol	16.234	330	2123468	134.618	ng		0.00
45) 2-Fluorobiphenyl	13.363	172	8756486	117.083	ng		0.00
79) Terphenyl-d14	20.045	244	12861515	109.707	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.458	88	589104	56.332	ng		100
3) Pyridine	3.875	79	1811811m	58.882	ng		
4) n-Nitrosodimethylamine	3.805	42	670594	56.897	ng		99
6) Aniline	7.428	93	2628435	57.900	ng		99
8) 2-Chlorophenol	7.646	128	1650906	58.721	ng		98
9) Benzaldehyde	7.246	77	883125	59.625	ng		100
10) Phenol	7.258	94	2067042	57.914	ng		99
11) bis(2-Chloroethyl)ether	7.522	93	1662316	57.295	ng		100
12) 1,3-Dichlorobenzene	7.975	146	1754983	58.148	ng		99
13) 1,4-Dichlorobenzene	8.128	146	1780292	58.150	ng		100
14) 1,2-Dichlorobenzene	8.446	146	1709702	58.000	ng		99
15) Benzyl Alcohol	8.346	79	1502807	59.851	ng		99
16) 2,2'-oxybis(1-Chloropr...	8.628	45	1819633	55.302	ng		99
17) 2-Methylphenol	8.528	107	1513663	58.846	ng		99
18) Hexachloroethane	9.169	117	632913	57.957	ng		98
19) n-Nitroso-di-n-propyla...	8.916	70	1296980	56.330	ng		98
20) 3+4-Methylphenols	8.863	107	2081256	59.576	ng		99
22) Acetophenone	8.940	105	2557209	58.787	ng	#	100
24) Nitrobenzene	9.334	77	1893109	59.886	ng		100
25) Isophorone	9.852	82	3719289	59.856	ng		99
26) 2-Nitrophenol	10.040	139	847607	61.285	ng		98
27) 2,4-Dimethylphenol	10.075	122	1641815	59.060	ng		99
28) bis(2-Chloroethoxy)met...	10.340	93	2242785	58.925	ng		100
29) 2,4-Dichlorophenol	10.557	162	1665925	64.034	ng		99
30) 1,2,4-Trichlorobenzene	10.775	180	1751538	62.158	ng		99
31) Naphthalene	10.981	128	5358347	59.459	ng		99
32) Benzoic acid	10.216	122	1139498	60.581	ng		99
33) 4-Chloroaniline	11.104	127	2467133	60.691	ng		99
34) Hexachlorobutadiene	11.216	225	1056060	63.301	ng		99
35) Caprolactam	11.928	113	605660	63.697	ng		98
36) 4-Chloro-3-methylphenol	12.193	107	1794597	62.056	ng		99
37) 2-Methylnaphthalene	12.575	142	3944474	60.250	ng		99
38) 1-Methylnaphthalene	12.793	142	3689032	60.103	ng		99
40) 1,2,4,5-Tetrachloroben...	12.922	216	2056876	63.125	ng		99
41) Hexachlorocyclopentadiene	12.875	237	1073027	65.569	ng		100
43) 2,4,6-Trichlorophenol	13.163	196	1373917	65.715	ng		100

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP072723\
Data File : BP016399.D
Acq On : 27 Jul 2023 14:29
Operator : MA/JU
Sample : SSTDICC060
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 27 17:36:14 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP072723.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jul 27 17:32:49 2023
Response via : Initial Calibration

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	13.234	196	1652197	65.137	ng	99
46) 1,1'-Biphenyl	13.575	154	4866198	59.537	ng	99
47) 2-Chloronaphthalene	13.622	162	3690121	59.843	ng	100
48) 2-Nitroaniline	13.845	65	1107558	63.720	ng	95
49) Acenaphthylene	14.469	152	6156761	60.177	ng	99
50) Dimethylphthalate	14.204	163	5028553	60.183	ng	100
51) 2,6-Dinitrotoluene	14.334	165	1109091	64.794	ng	99
52) Acenaphthene	14.804	154	3653627	60.053	ng	99
53) 3-Nitroaniline	14.669	138	1252118	64.702	ng	99
54) 2,4-Dinitrophenol	14.863	184	465503	60.319	ng	99
55) Dibenzofuran	15.140	168	5980121	59.932	ng	100
56) 4-Nitrophenol	14.945	139	1003212	66.225	ng	98
57) 2,4-Dinitrotoluene	15.116	165	1504047	67.421	ng	96
58) Fluorene	15.787	166	4643902	59.240	ng	99
59) 2,3,4,6-Tetrachlorophenol	15.345	232	1363713	65.357	ng	100
60) Diethylphthalate	15.557	149	4985205	60.037	ng	100
61) 4-Chlorophenyl-phenyle...	15.781	204	2410065	60.925	ng	98
62) 4-Nitroaniline	15.840	138	1244642	64.808	ng	99
63) Azobenzene	16.075	77	4489039	57.255	ng	99
65) 4,6-Dinitro-2-methylph...	15.863	198	720594	61.023	ng	97
66) n-Nitrosodiphenylamine	16.004	169	4281698	59.467	ng	100
67) 4-Bromophenyl-phenylether	16.681	248	1645411	63.604	ng	99
68) Hexachlorobenzene	16.763	284	1842230	63.857	ng	97
69) Atrazine	16.951	200	1232299	57.549	ng	100
70) Pentachlorophenol	17.122	266	1330748	66.656	ng	98
71) Phenanthrene	17.545	178	7620154	58.739	ng	99
72) Anthracene	17.639	178	7817344	59.927	ng	100
73) Carbazole	17.910	167	7268938	59.435	ng	99
74) Di-n-butylphthalate	18.433	149	8603045	60.802	ng	99
75) Fluoranthene	19.498	202	9333859	61.385	ng	98
77) Benzidine	19.692	184	2223728	51.791	ng	99
78) Pyrene	19.857	202	9689847	58.368	ng	99
80) Butylbenzylphthalate	20.722	149	4036301	61.888	ng	96
81) Benzo(a)anthracene	21.580	228	9910198	59.642	ng	99
82) 3,3'-Dichlorobenzidine	21.510	252	3456892	63.377	ng	99
83) Chrysene	21.639	228	9395797	59.216	ng	99
84) Bis(2-ethylhexyl)phtha...	21.469	149	5990540	61.180	ng	99
85) Di-n-octyl phthalate	22.469	149	10302253	62.559	ng	99
87) Indeno(1,2,3-cd)pyrene	26.986	276	12845421	63.951	ng	99
88) Benzo(b)fluoranthene	23.386	252	10492032	60.757	ng	99
89) Benzo(k)fluoranthene	23.445	252	10615666	60.439	ng	99
90) Benzo(a)pyrene	24.086	252	10325038	61.722	ng	99
91) Dibenzo(a,h)anthracene	27.021	278	10659819	63.637	ng	99
92) Benzo(g,h,i)perylene	27.851	276	10305921	63.844	ng	99

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

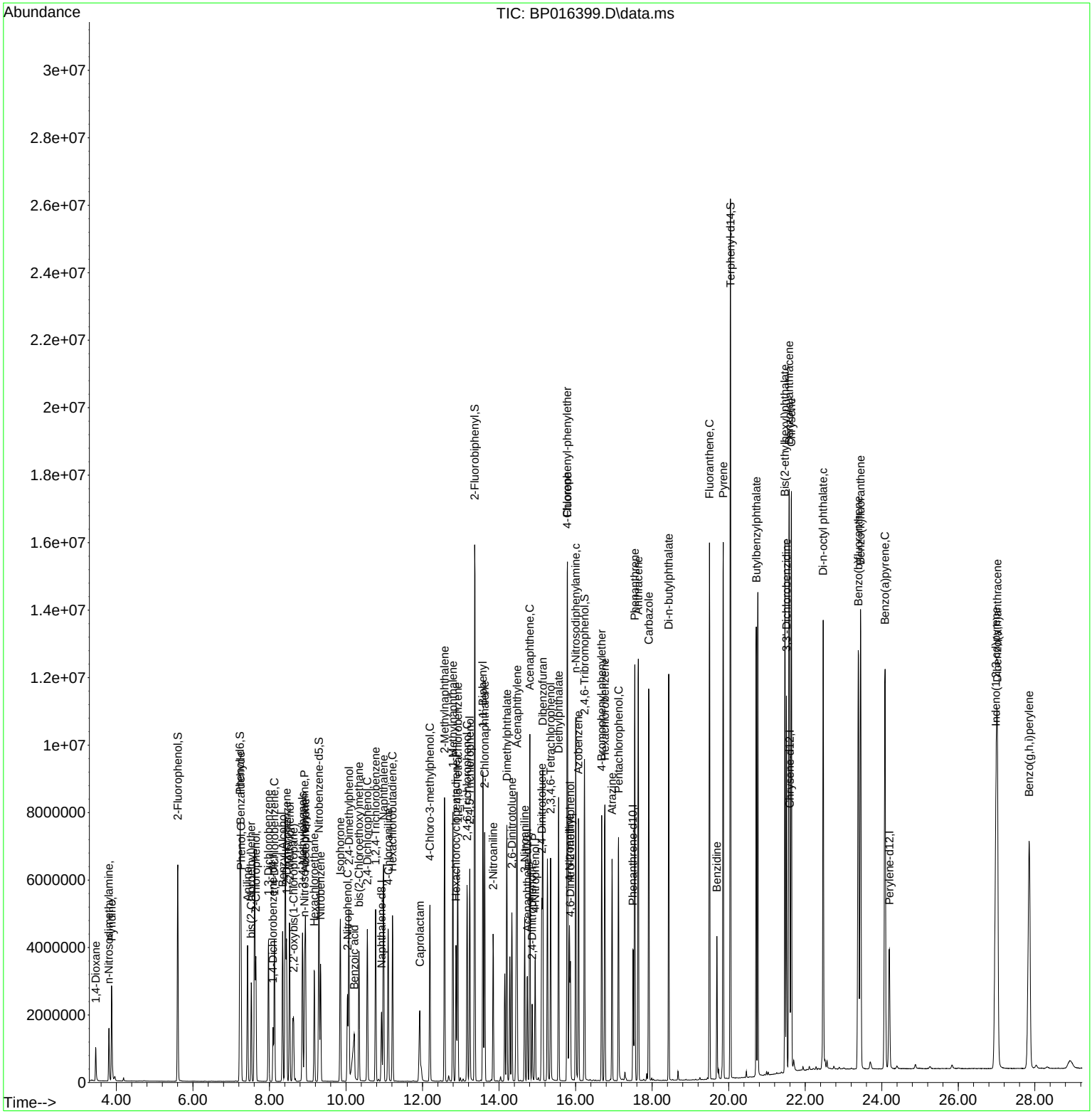
ICAL Form

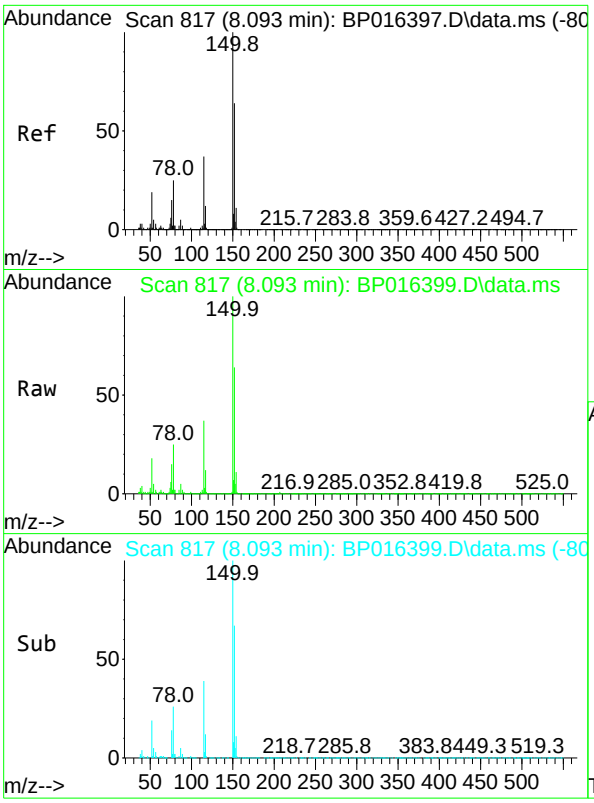
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP072723\
Data File : BP016399.D
Acq On : 27 Jul 2023 14:29
Operator : MA/JU
Sample : SSTDICC060
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 27 17:36:14 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP072723.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jul 27 17:32:49 2023
Response via : Initial Calibration

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

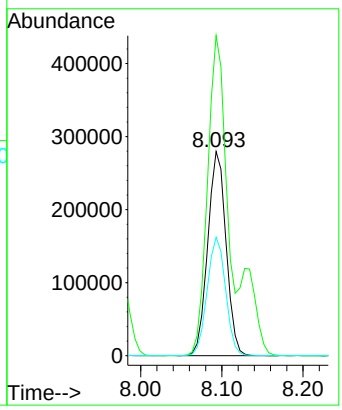




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.093 min Scan# 8
Delta R.T. -0.000 min
Lab File: BP016399.D
Acq: 27 Jul 2023 14:29

Tgt Ion:152 Resp: 43744

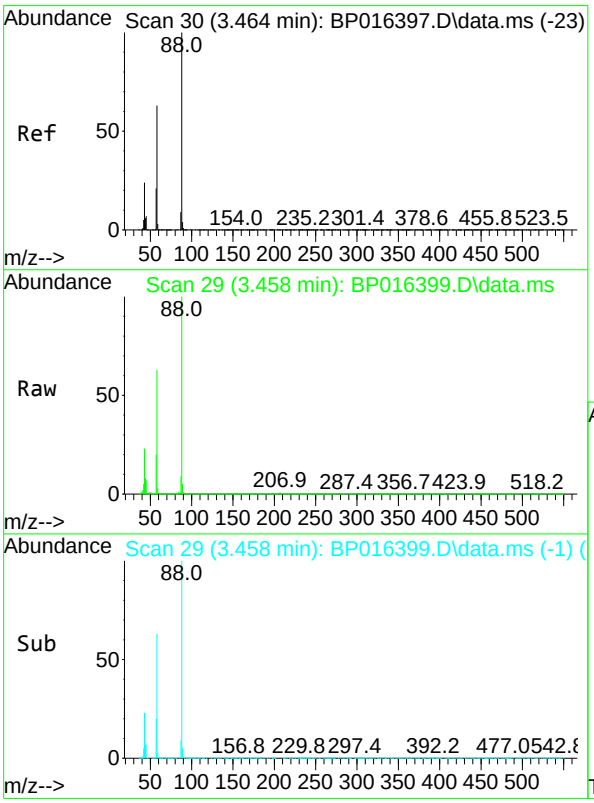
Ion	Ratio	Lower	Upper
152	100		
150	156.7	124.9	187.3
115	58.0	46.8	70.2



Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

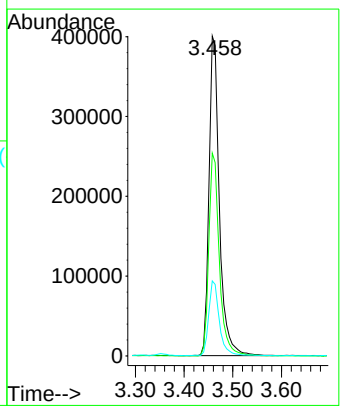
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

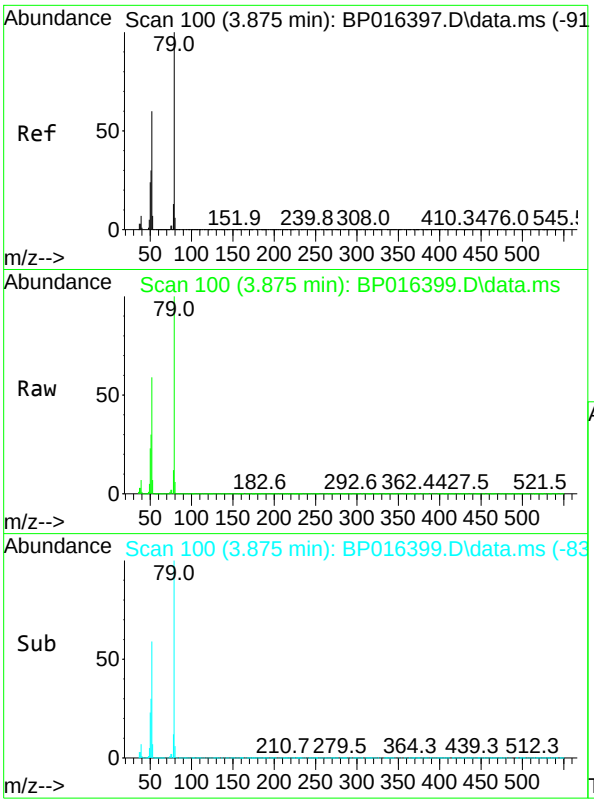


#2
1,4-Dioxane
Concen: 56.332 ng
RT: 3.458 min Scan# 29
Delta R.T. -0.006 min
Lab File: BP016399.D
Acq: 27 Jul 2023 14:29

Tgt Ion: 88 Resp: 589104

Ion	Ratio	Lower	Upper
88	100		
58	64.3	51.7	77.5
43	24.1	19.2	28.8

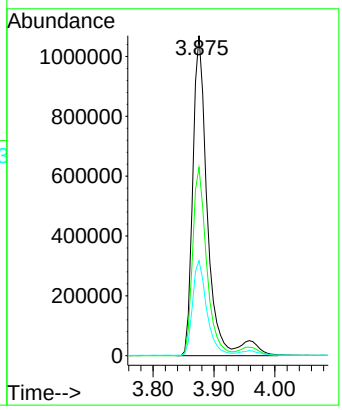




#3
Pyridine
Concen: 58.882 ng m
RT: 3.875 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP016399.D
Acq: 27 Jul 2023 14:29

Tgt Ion: 79 Resp: 181181

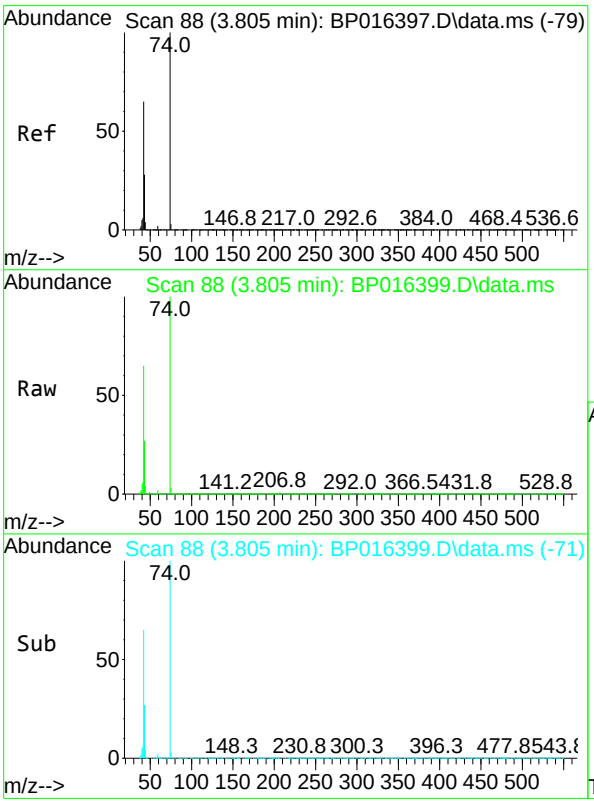
Ion	Ratio	Lower	Upper
79	100		
52	58.8	47.9	71.9
51	29.7	24.4	36.6



Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

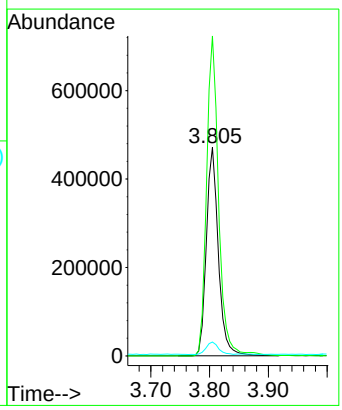
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

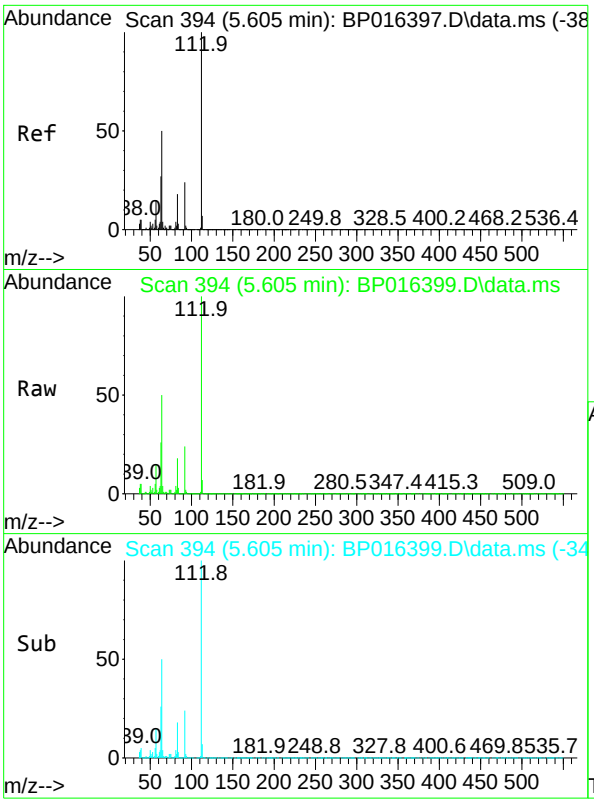


#4
n-Nitrosodimethylamine
Concen: 56.897 ng
RT: 3.805 min Scan# 88
Delta R.T. -0.000 min
Lab File: BP016399.D
Acq: 27 Jul 2023 14:29

Tgt Ion: 42 Resp: 670594

Ion	Ratio	Lower	Upper
42	100		
74	153.4	123.8	185.8
44	6.7	5.5	8.3

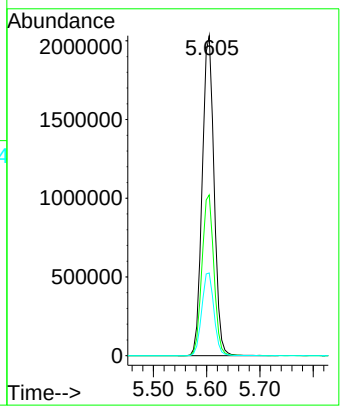




#5
2-Fluorophenol
Concen: 116.955 ng
RT: 5.605 min Scan# 3
Delta R.T. -0.000 min
Lab File: BP016399.D
Acq: 27 Jul 2023 14:29

Tgt Ion:112 Resp: 313600

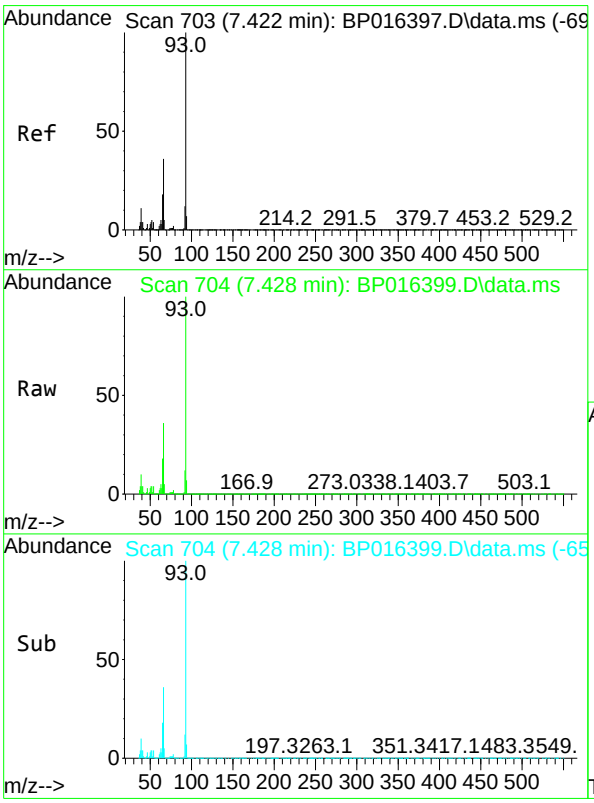
Ion	Ratio	Lower	Upper
112	100		
64	50.2	40.0	60.0
63	25.9	21.2	31.8



Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

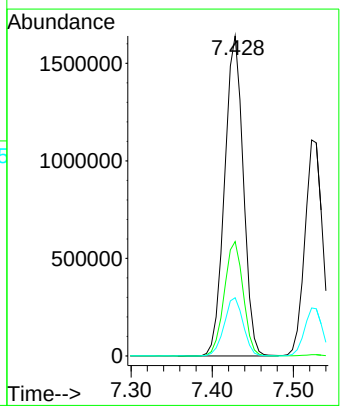
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

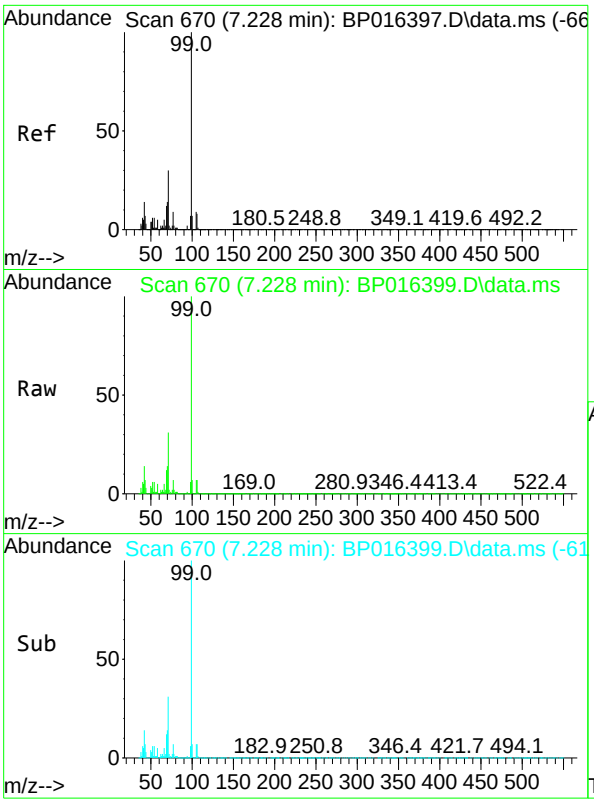


#6
Aniline
Concen: 57.900 ng
RT: 7.428 min Scan# 704
Delta R.T. 0.006 min
Lab File: BP016399.D
Acq: 27 Jul 2023 14:29

Tgt Ion: 93 Resp: 2628435

Ion	Ratio	Lower	Upper
93	100		
66	35.8	28.9	43.3
65	18.2	14.7	22.1

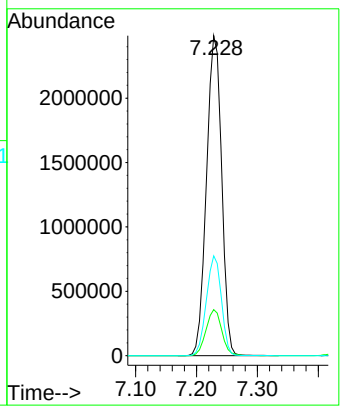




#7
Phenol-d6
Concen: 117.003 ng
RT: 7.228 min Scan# 6
Delta R.T. -0.000 min
Lab File: BP016399.D
Acq: 27 Jul 2023 14:29

Tgt Ion: 99 Resp: 430020

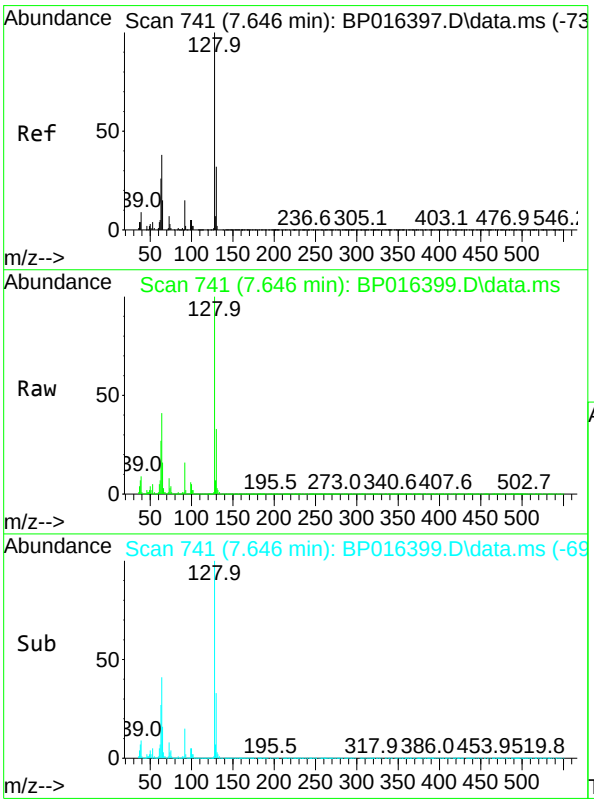
Ion	Ratio	Lower	Upper
99	100		
42	14.4	11.6	17.4
71	31.2	24.3	36.5



Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

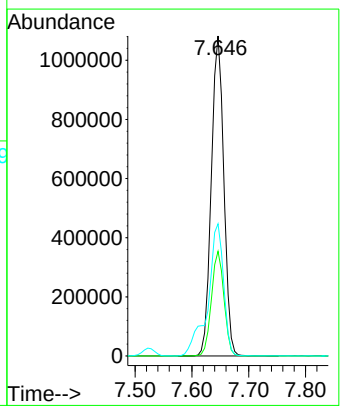
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

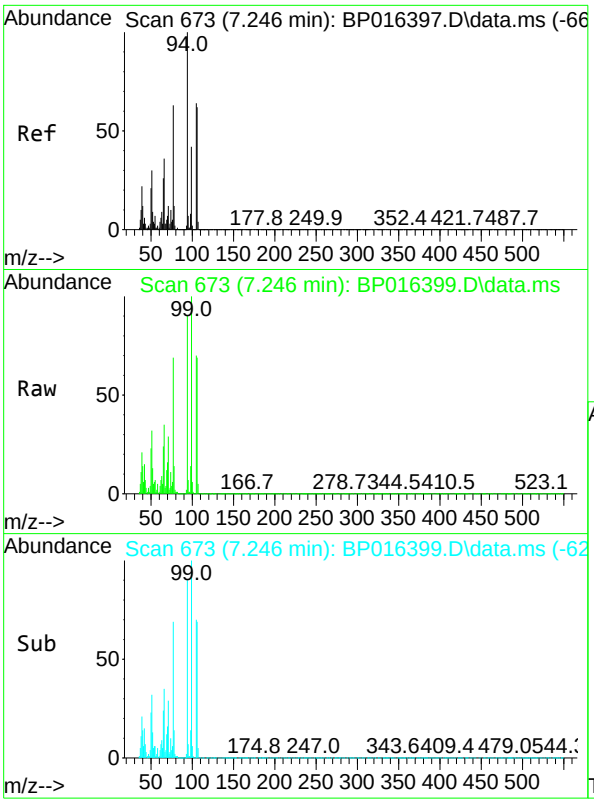


#8
2-Chlorophenol
Concen: 58.721 ng
RT: 7.646 min Scan# 741
Delta R.T. -0.000 min
Lab File: BP016399.D
Acq: 27 Jul 2023 14:29

Tgt Ion:128 Resp: 1650906

Ion	Ratio	Lower	Upper
128	100		
130	32.7	11.6	51.6
64	41.3	20.6	60.6

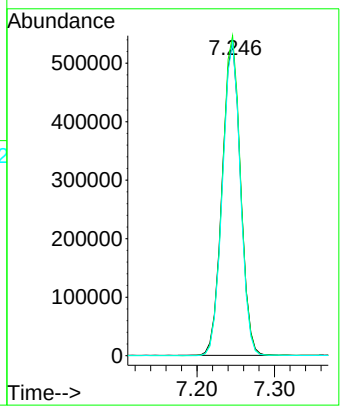




#9
Benzaldehyde
Concen: 59.625 ng
RT: 7.246 min Scan# 6
Delta R.T. -0.000 min
Lab File: BP016399.D
Acq: 27 Jul 2023 14:29

Tgt Ion: 77 Resp: 88312

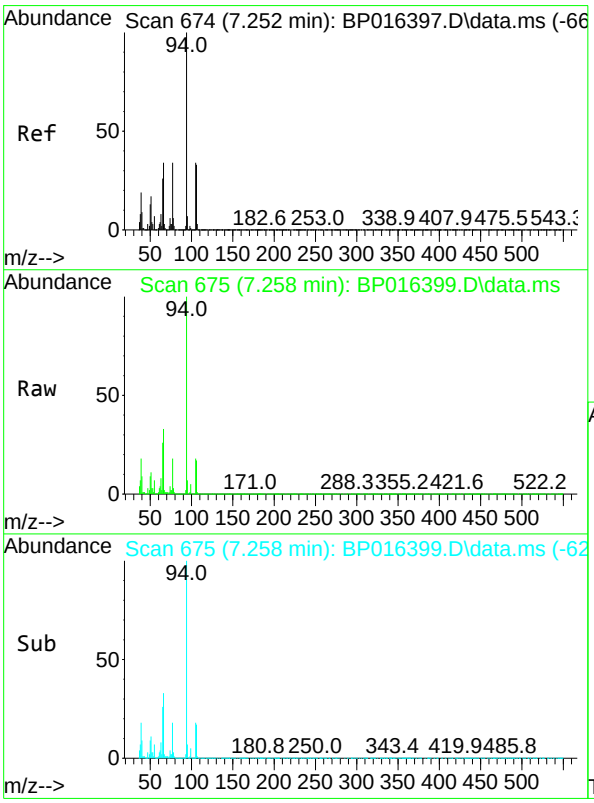
Ion	Ratio	Lower	Upper
77	100		
105	101.7	81.9	121.9
106	99.5	78.8	118.8



Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

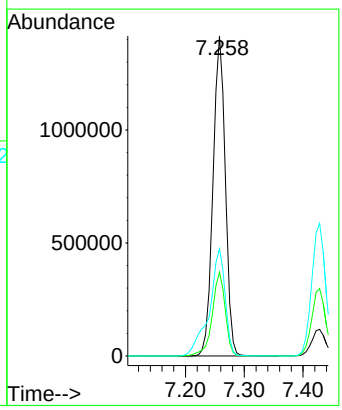
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

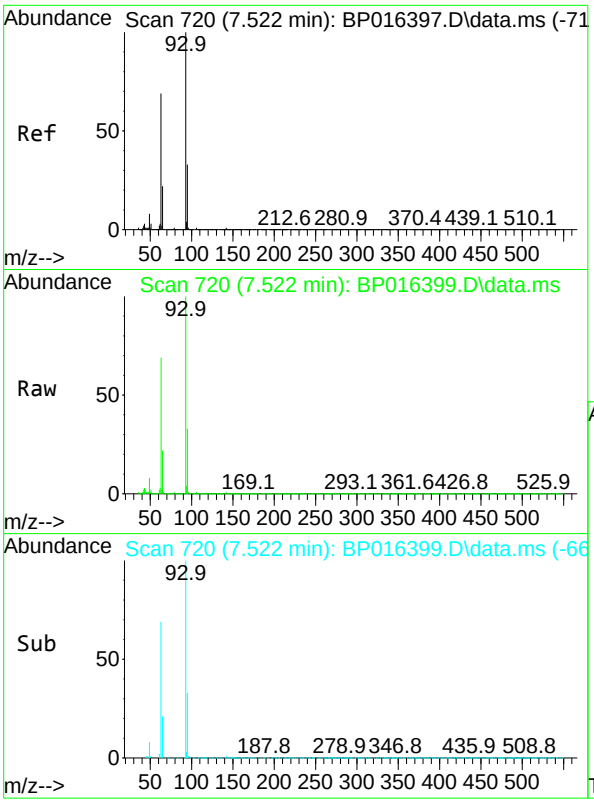


#10
Phenol
Concen: 57.914 ng
RT: 7.258 min Scan# 675
Delta R.T. 0.006 min
Lab File: BP016399.D
Acq: 27 Jul 2023 14:29

Tgt Ion: 94 Resp: 2067042

Ion	Ratio	Lower	Upper
94	100		
65	26.2	5.9	45.9
66	33.5	14.3	54.3

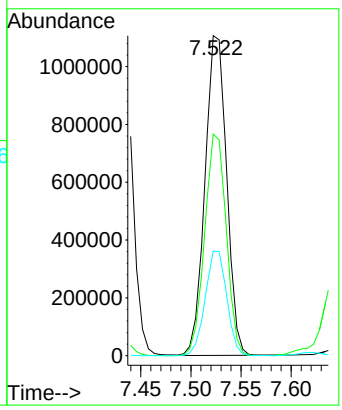




#11
bis(2-Chloroethyl)ether
Concen: 57.295 ng
RT: 7.522 min Scan# 7
Delta R.T. -0.000 min
Lab File: BP016399.D
Acq: 27 Jul 2023 14:29

Tgt Ion: 93 Resp: 166231

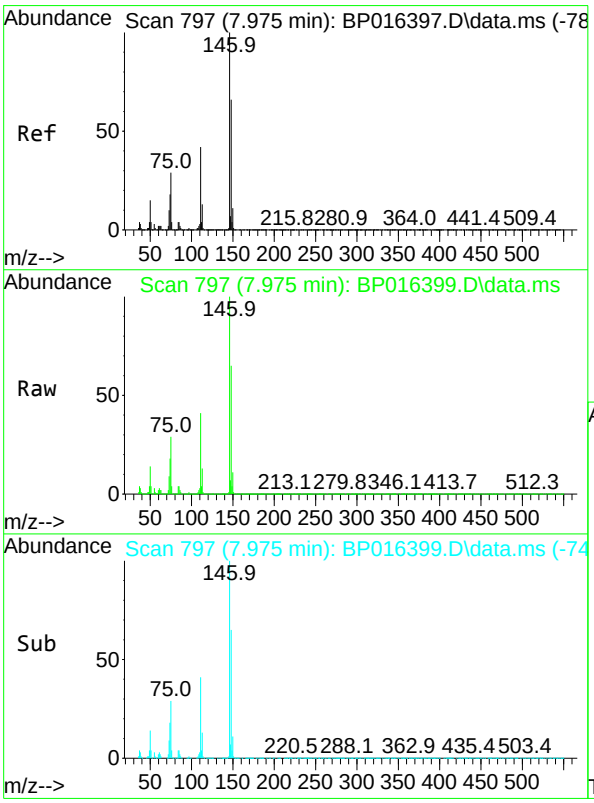
Ion	Ratio	Lower	Upper
93	100		
63	69.2	49.4	89.4
95	32.7	12.9	52.9



Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

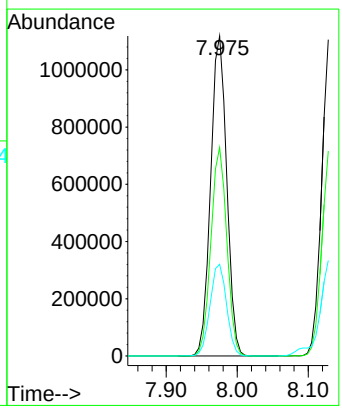
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

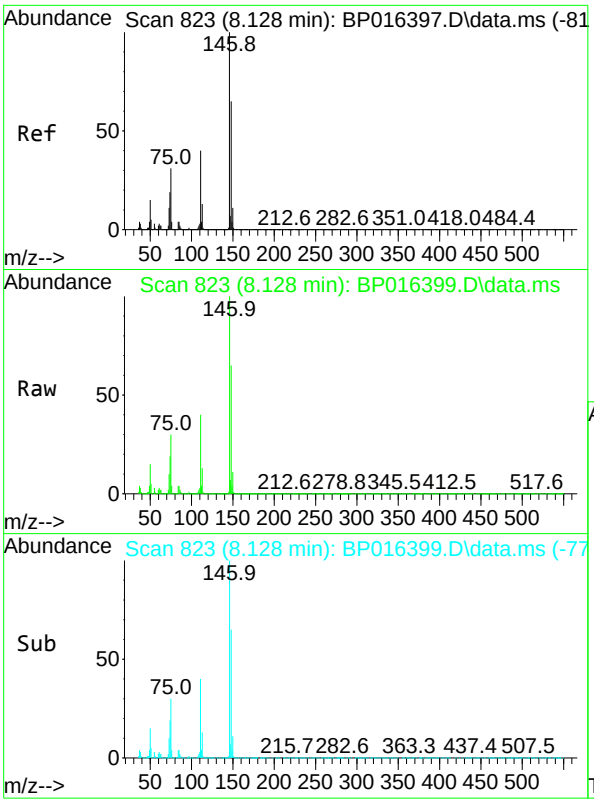


#12
1,3-Dichlorobenzene
Concen: 58.148 ng
RT: 7.975 min Scan# 797
Delta R.T. -0.000 min
Lab File: BP016399.D
Acq: 27 Jul 2023 14:29

Tgt Ion:146 Resp: 1754983

Ion	Ratio	Lower	Upper
146	100		
148	65.1	53.0	79.4
75	28.6	23.4	35.2

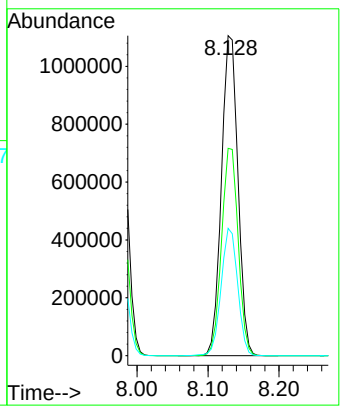




#13
1,4-Dichlorobenzene
Concen: 58.150 ng
RT: 8.128 min Scan# 8
Delta R.T. -0.000 min
Lab File: BP016399.D
Acq: 27 Jul 2023 14:29

Tgt Ion:146 Resp: 178029

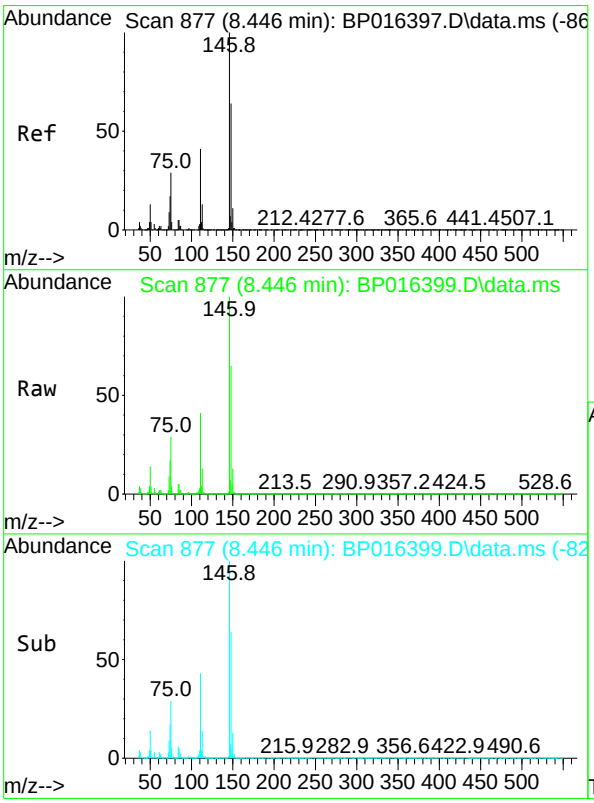
Ion	Ratio	Lower	Upper
146	100		
148	64.8	51.7	77.5
111	39.8	32.0	48.0



Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

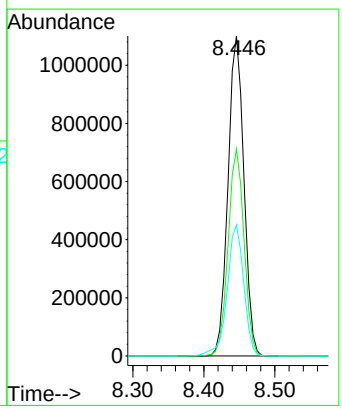
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

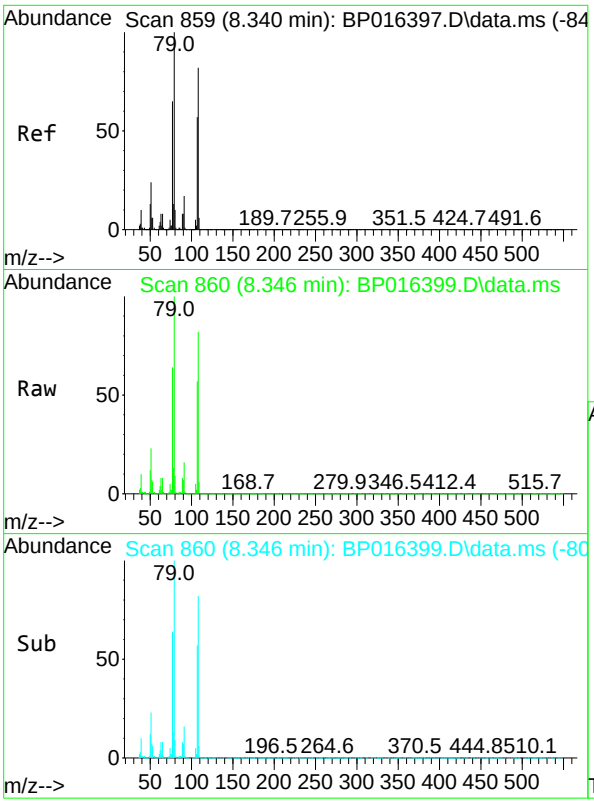


#14
1,2-Dichlorobenzene
Concen: 58.000 ng
RT: 8.446 min Scan# 877
Delta R.T. -0.000 min
Lab File: BP016399.D
Acq: 27 Jul 2023 14:29

Tgt Ion:146 Resp: 1709702

Ion	Ratio	Lower	Upper
146	100		
148	64.6	51.0	76.6
111	41.0	32.6	49.0

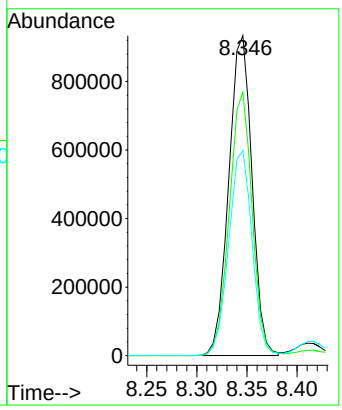




#15
Benzyl Alcohol
Concen: 59.851 ng
RT: 8.346 min Scan# 8
Delta R.T. 0.006 min
Lab File: BP016399.D
Acq: 27 Jul 2023 14:29

Tgt Ion: 79 Resp: 150280

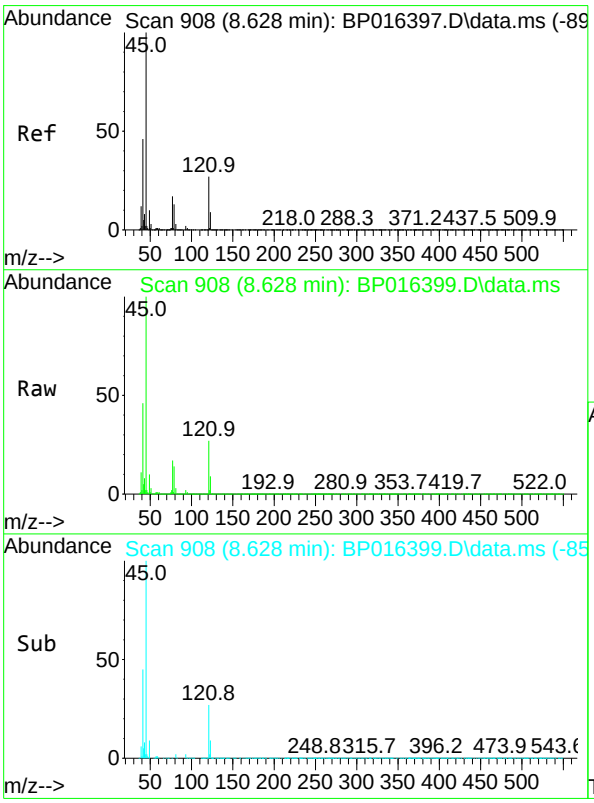
Ion	Ratio	Lower	Upper
79	100		
108	82.3	65.4	98.2
77	64.2	51.8	77.8



Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

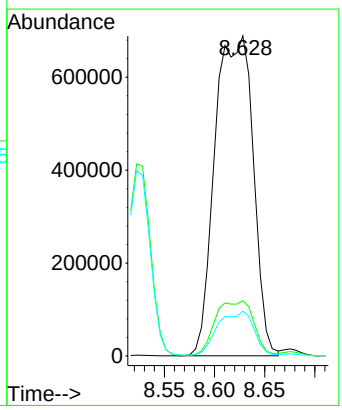
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

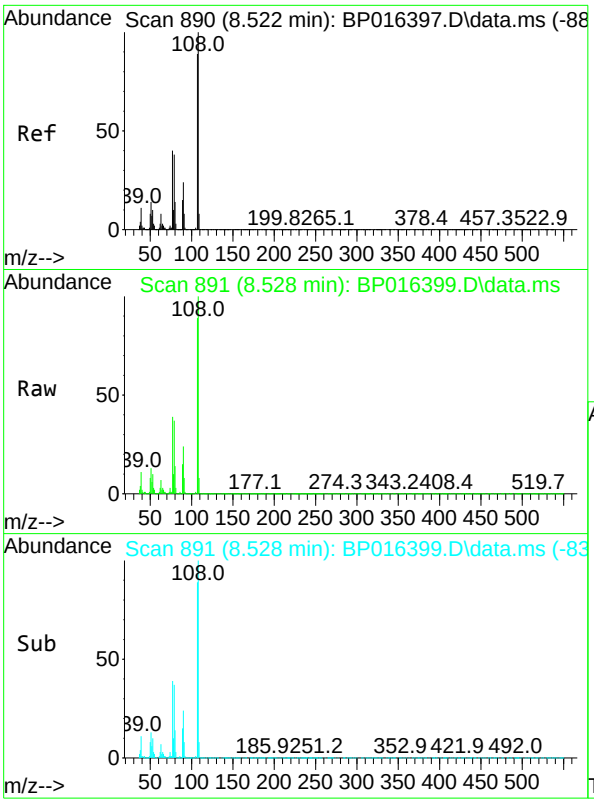


#16
2,2'-oxybis(1-Chloropropane)
Concen: 55.302 ng
RT: 8.628 min Scan# 908
Delta R.T. -0.000 min
Lab File: BP016399.D
Acq: 27 Jul 2023 14:29

Tgt Ion: 45 Resp: 1819633

Ion	Ratio	Lower	Upper
45	100		
77	17.3	0.0	37.3
79	14.0	0.0	33.3

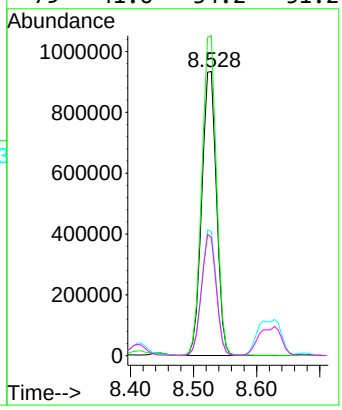




#17
2-Methylphenol
Concen: 58.846 ng
RT: 8.528 min Scan# 8
Delta R.T. 0.006 min
Lab File: BP016399.D
Acq: 27 Jul 2023 14:29

Tgt Ion:107 Resp: 151366

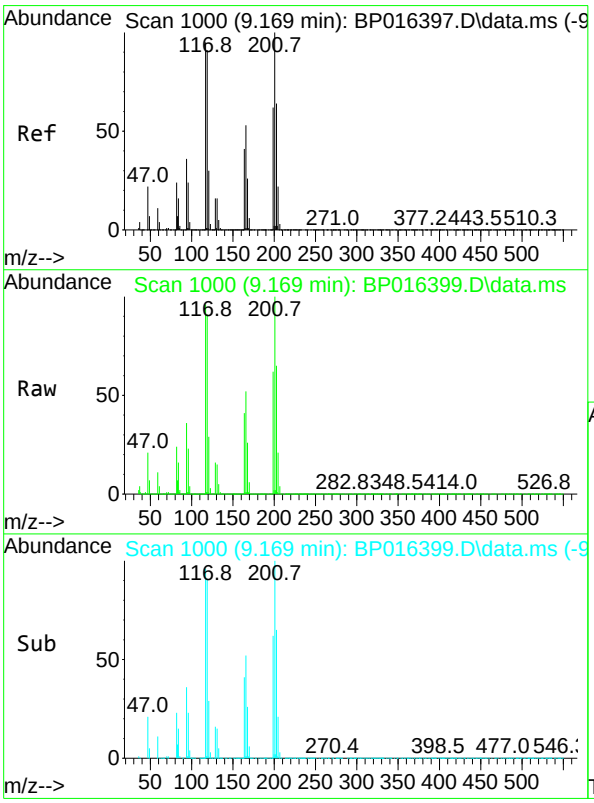
Ion	Ratio	Lower	Upper
107	100		
108	112.6	89.6	134.4
77	43.7	35.6	53.4
79	41.6	34.2	51.2



Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

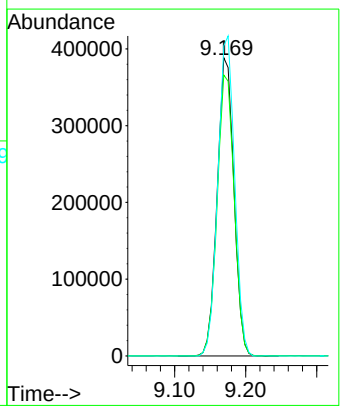
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

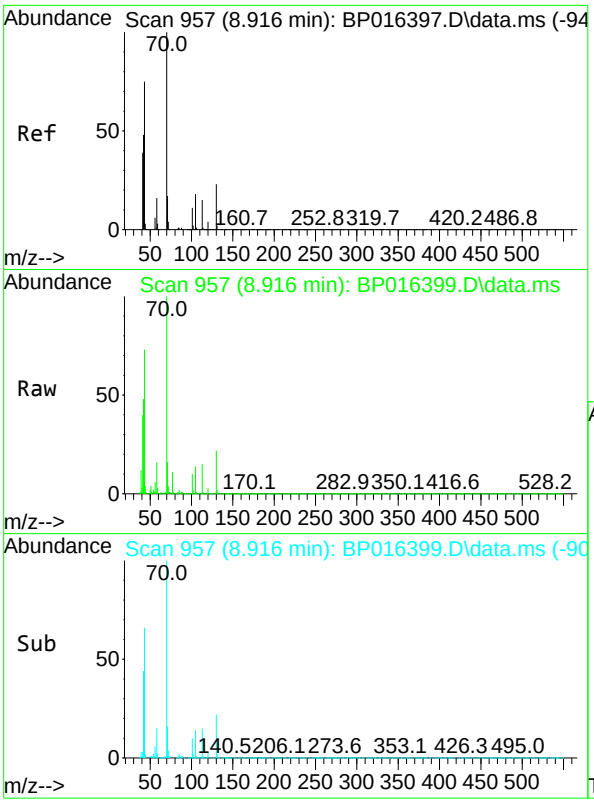


#18
Hexachloroethane
Concen: 57.957 ng
RT: 9.169 min Scan# 1000
Delta R.T. -0.000 min
Lab File: BP016399.D
Acq: 27 Jul 2023 14:29

Tgt Ion:117 Resp: 632913

Ion	Ratio	Lower	Upper
117	100		
119	94.2	76.9	115.3
201	106.5	86.2	129.4

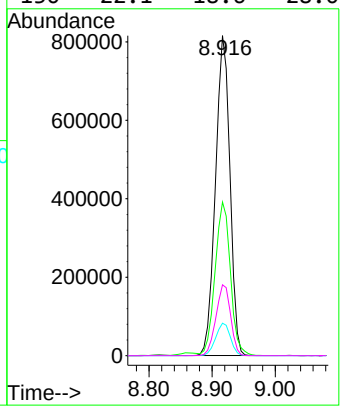




#19
n-Nitroso-di-n-propylamine
Concen: 56.330 ng
RT: 8.916 min Scan# 9
Delta R.T. -0.000 min
Lab File: BP016399.D
Acq: 27 Jul 2023 14:29

Tgt Ion: 70 Resp: 129698

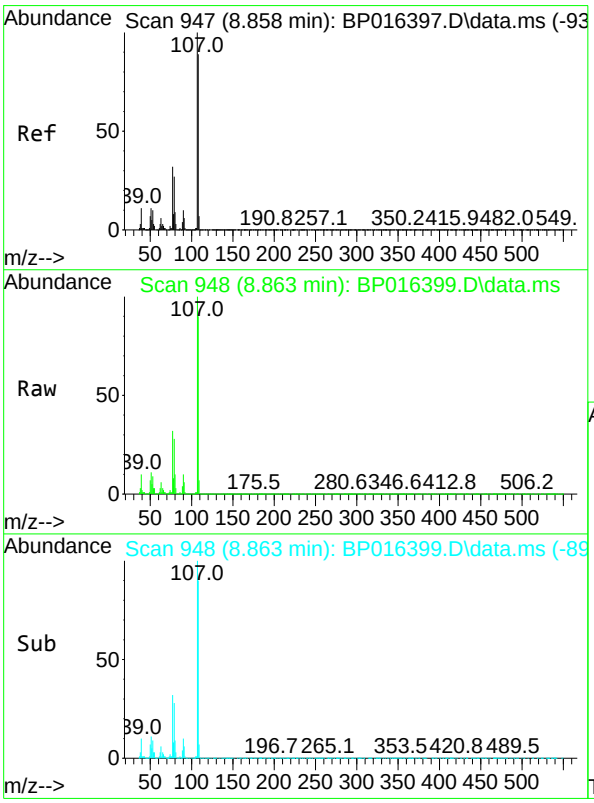
Ion	Ratio	Lower	Upper
70	100		
42	48.0	39.3	58.9
101	10.2	8.6	12.8
130	22.1	18.6	28.0



Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

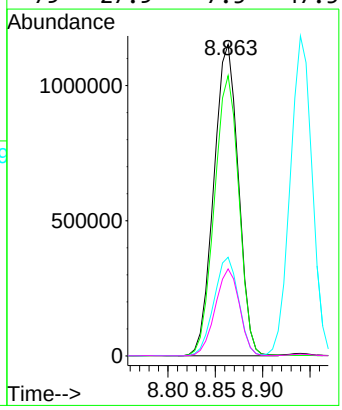
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

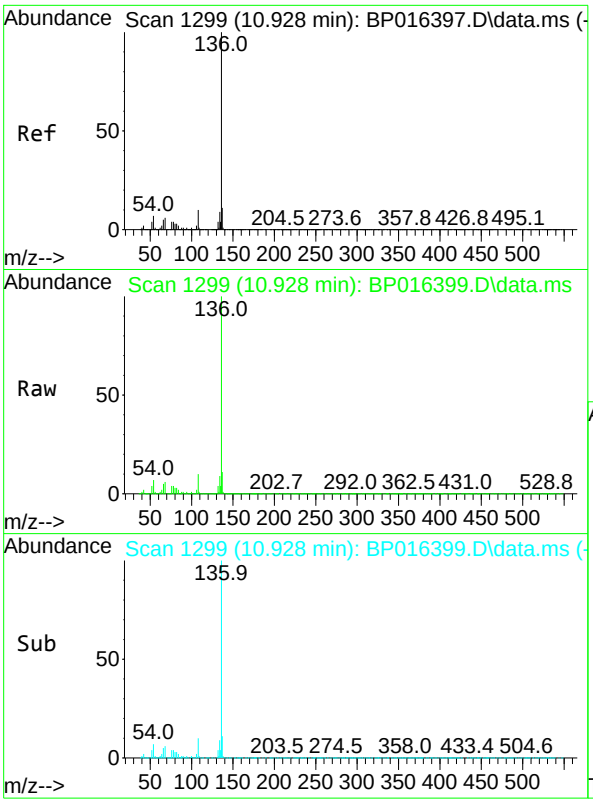


#20
3+4-Methylphenols
Concen: 59.576 ng
RT: 8.863 min Scan# 948
Delta R.T. 0.006 min
Lab File: BP016399.D
Acq: 27 Jul 2023 14:29

Tgt Ion:107 Resp: 2081256

Ion	Ratio	Lower	Upper
107	100		
108	90.0	69.1	109.1
77	31.7	12.0	52.0
79	27.9	7.5	47.5

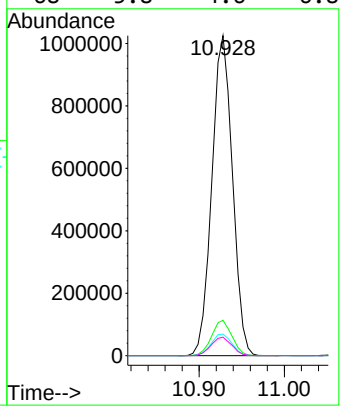




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.928 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP016399.D
Acq: 27 Jul 2023 14:29

Tgt Ion:136 Resp: 172288

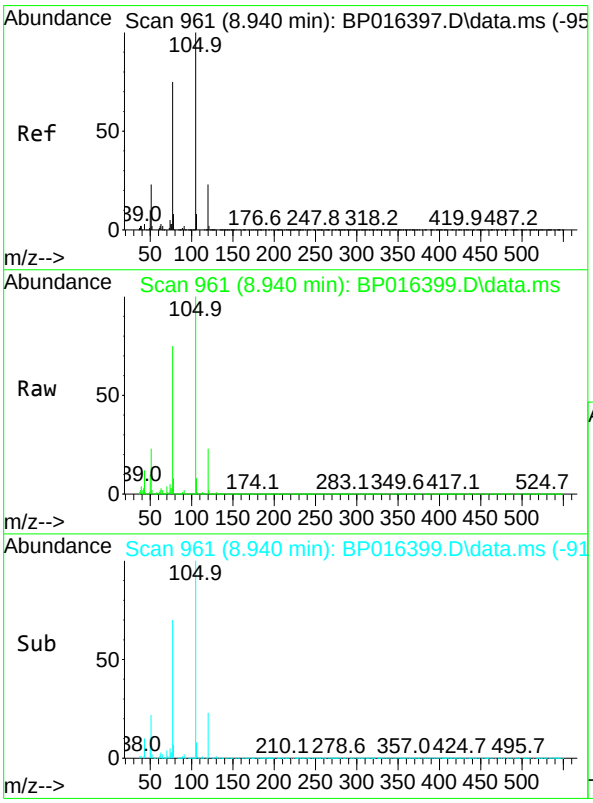
Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.6	13.0
54	6.7	5.6	8.4
68	5.8	4.6	6.8



Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

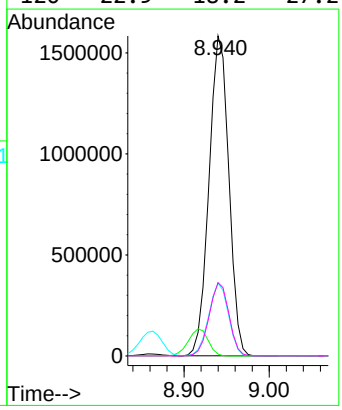
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

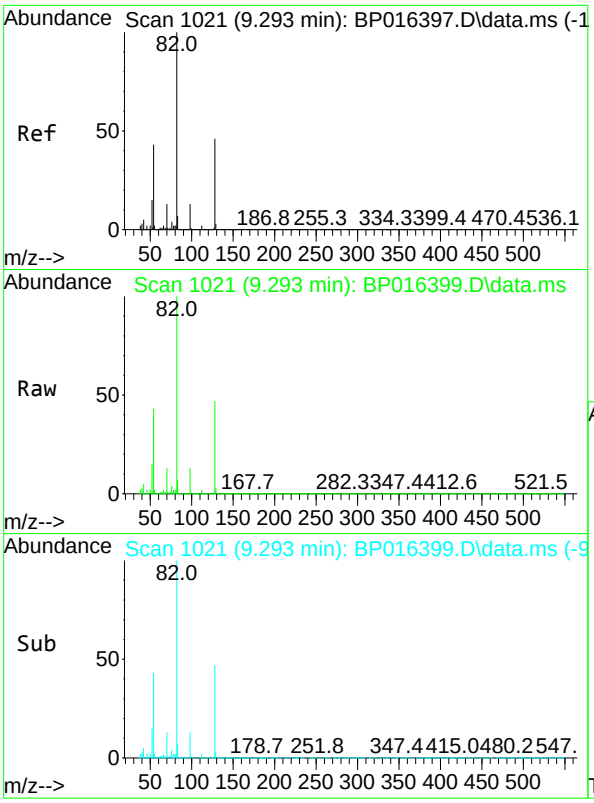


#22
Acetophenone
Concen: 58.787 ng
RT: 8.940 min Scan# 961
Delta R.T. -0.000 min
Lab File: BP016399.D
Acq: 27 Jul 2023 14:29

Tgt Ion:105 Resp: 2557209

Ion	Ratio	Lower	Upper
105	100		
71	0.6	0.2	0.2#
51	22.8	18.3	27.5
120	22.9	18.2	27.2

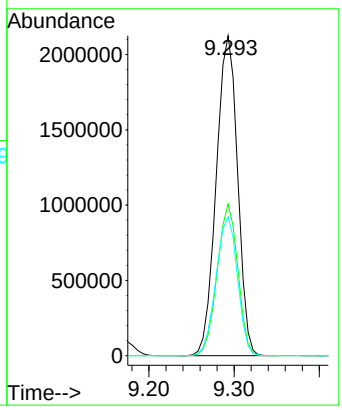




#23
Nitrobenzene-d5
Concen: 120.105 ng
RT: 9.293 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP016399.D
Acq: 27 Jul 2023 14:29

Tgt Ion: 82 Resp: 369654

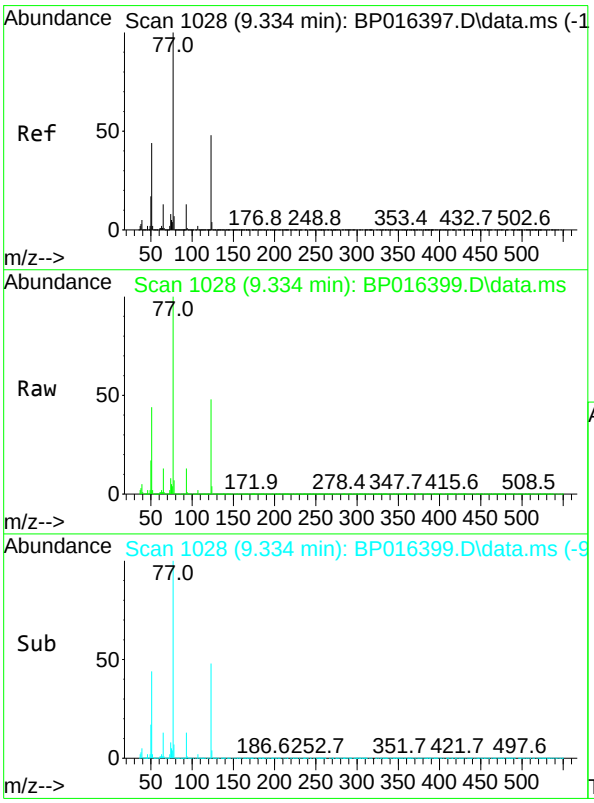
Ion	Ratio	Lower	Upper
82	100		
128	47.4	36.6	55.0
54	43.4	34.5	51.7



Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

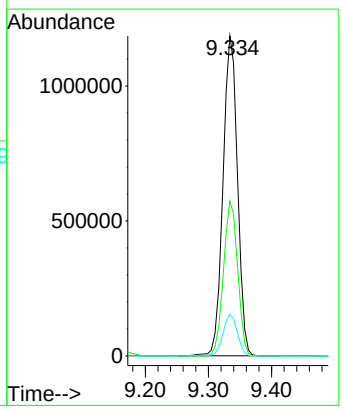
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

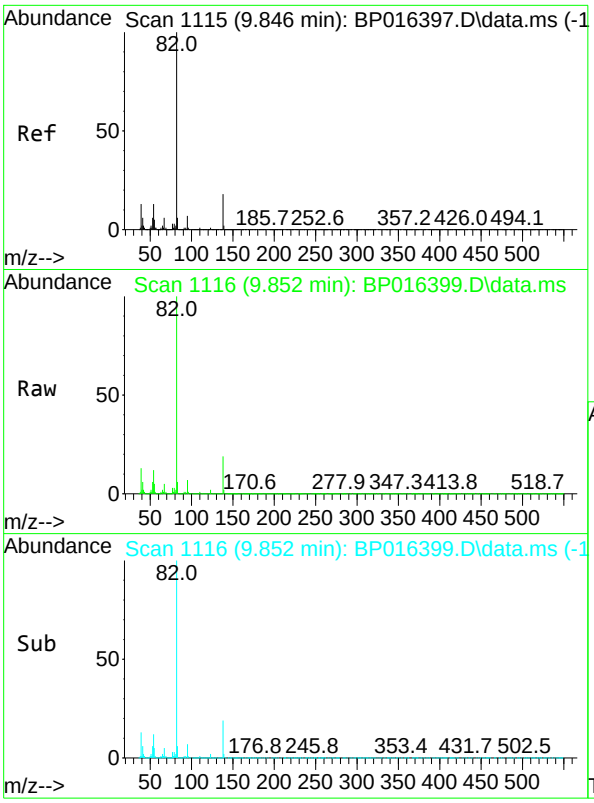


#24
Nitrobenzene
Concen: 59.886 ng
RT: 9.334 min Scan# 1028
Delta R.T. -0.000 min
Lab File: BP016399.D
Acq: 27 Jul 2023 14:29

Tgt Ion: 77 Resp: 1893109

Ion	Ratio	Lower	Upper
77	100		
123	48.4	38.6	58.0
65	13.0	10.5	15.7

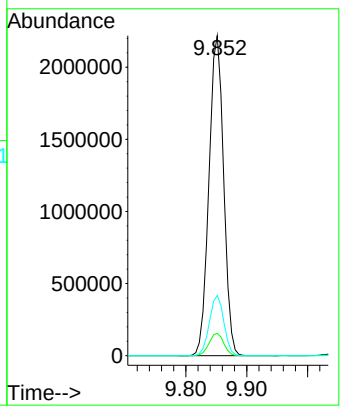




#25
Isophorone
Concen: 59.856 ng
RT: 9.852 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP016399.D
Acq: 27 Jul 2023 14:29

Tgt Ion: 82 Resp: 371928

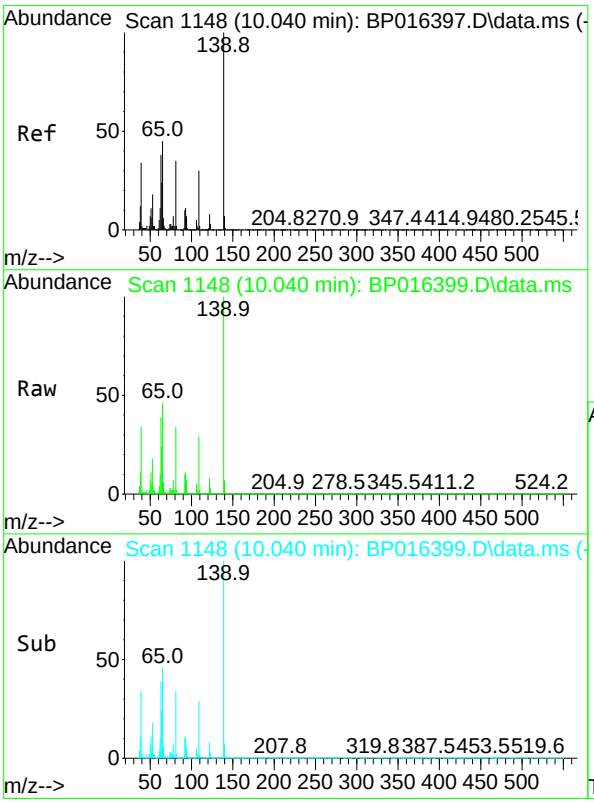
Ion	Ratio	Lower	Upper
82	100		
95	6.9	5.7	8.5
138	18.8	14.6	22.0



Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

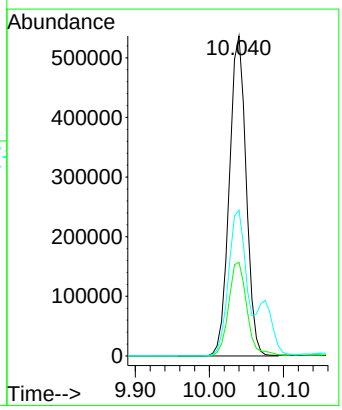
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

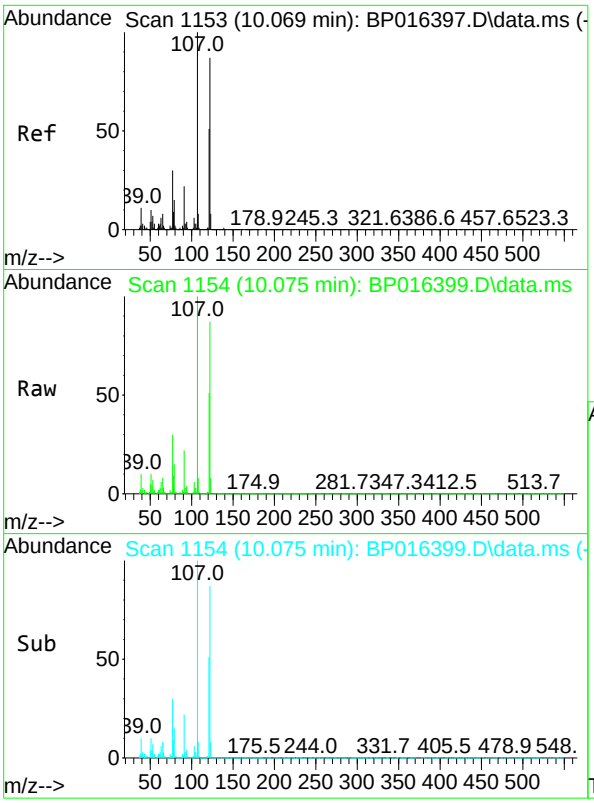


#26
2-Nitrophenol
Concen: 61.285 ng
RT: 10.040 min Scan# 1148
Delta R.T. -0.000 min
Lab File: BP016399.D
Acq: 27 Jul 2023 14:29

Tgt Ion:139 Resp: 847607

Ion	Ratio	Lower	Upper
139	100		
109	29.3	24.2	36.4
65	45.6	35.8	53.6

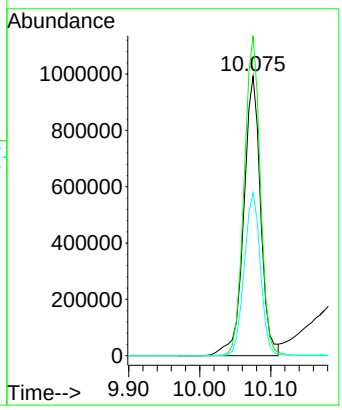




#27
2,4-Dimethylphenol
Concen: 59.060 ng
RT: 10.075 min Scan# 11
Delta R.T. 0.006 min
Lab File: BP016399.D
Acq: 27 Jul 2023 14:29

Tgt Ion:122 Resp: 164181

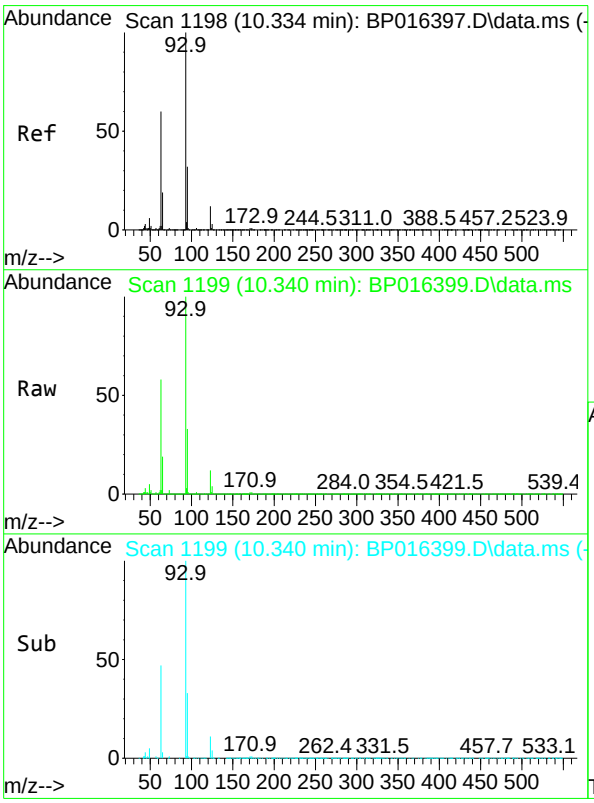
Ion	Ratio	Lower	Upper
122	100		
107	114.5	91.9	137.9
121	58.3	47.2	70.8



Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

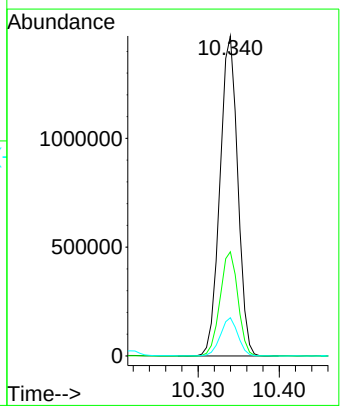
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

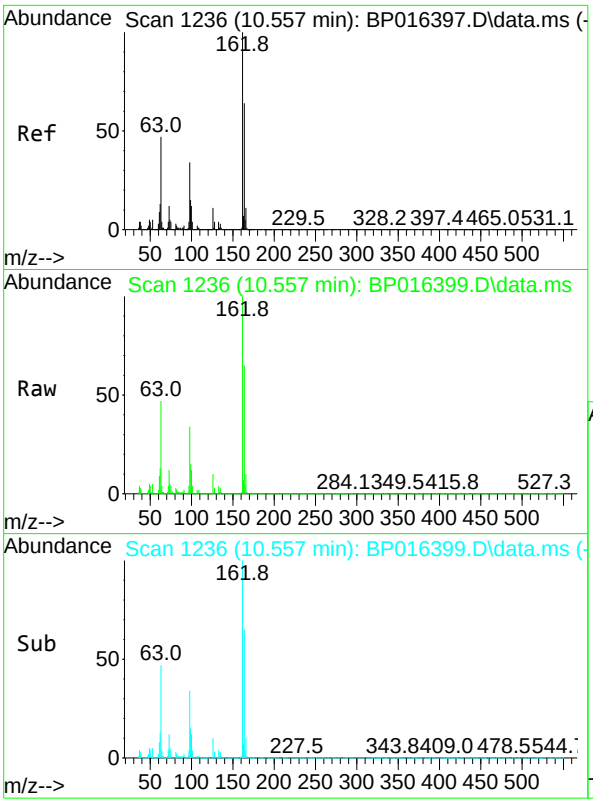


#28
bis(2-Chloroethoxy)methane
Concen: 58.925 ng
RT: 10.340 min Scan# 1199
Delta R.T. 0.006 min
Lab File: BP016399.D
Acq: 27 Jul 2023 14:29

Tgt Ion: 93 Resp: 2242785

Ion	Ratio	Lower	Upper
93	100		
95	32.5	25.8	38.8
123	12.0	9.4	14.0

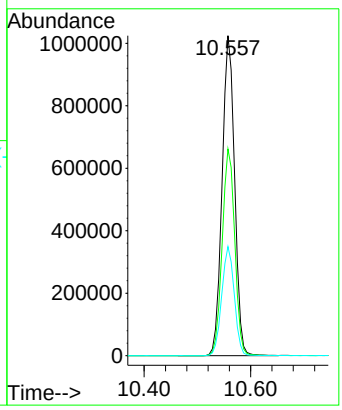




#29
2,4-Dichlorophenol
Concen: 64.034 ng
RT: 10.557 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP016399.D
Acq: 27 Jul 2023 14:29

Tgt Ion:162 Resp: 166592

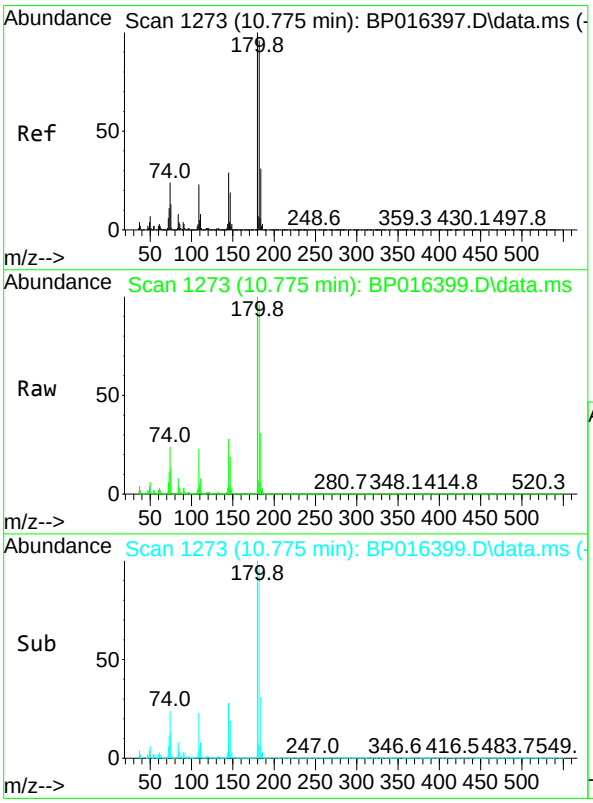
Ion	Ratio	Lower	Upper
162	100		
164	64.6	44.2	84.2
98	34.1	13.7	53.7



Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

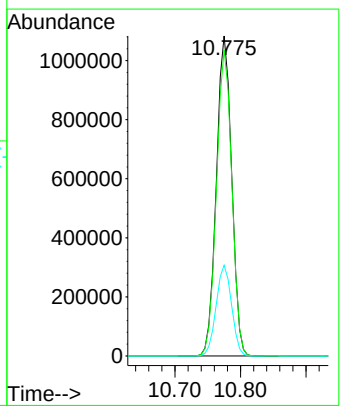
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

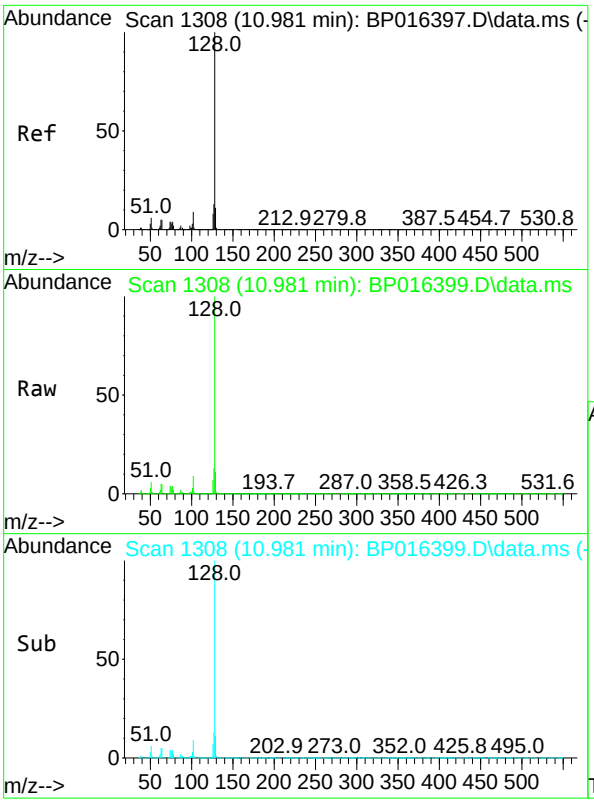


#30
1,2,4-Trichlorobenzene
Concen: 62.158 ng
RT: 10.775 min Scan# 1273
Delta R.T. -0.000 min
Lab File: BP016399.D
Acq: 27 Jul 2023 14:29

Tgt Ion:180 Resp: 1751538

Ion	Ratio	Lower	Upper
180	100		
182	95.7	77.1	115.7
145	28.3	22.9	34.3

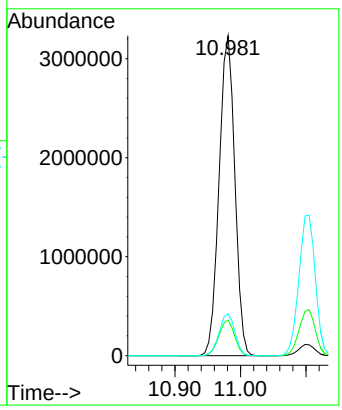




#31
Naphthalene
Concen: 59.459 ng
RT: 10.981 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP016399.D
Acq: 27 Jul 2023 14:29

Tgt Ion:128 Resp: 535834

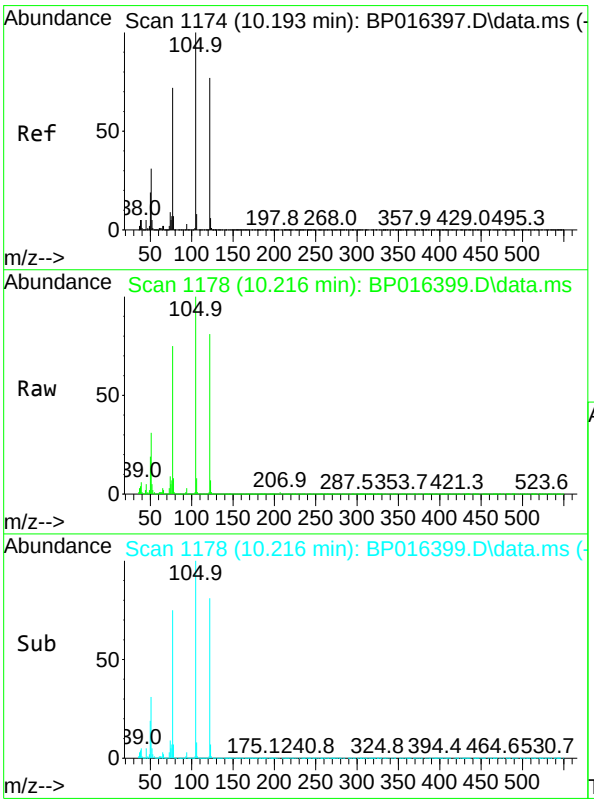
Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.6	12.8
127	13.1	10.4	15.6



Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

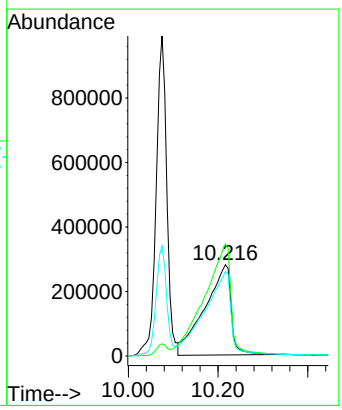
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

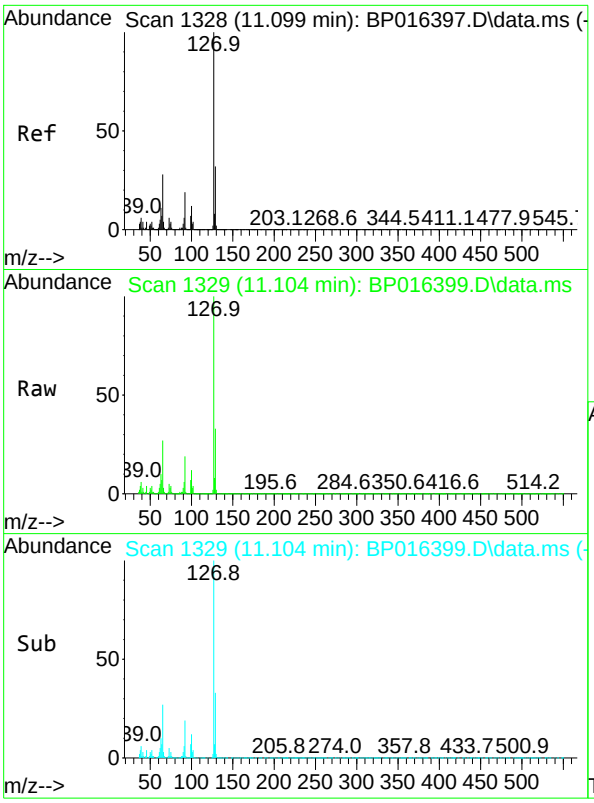


#32
Benzoic acid
Concen: 60.581 ng
RT: 10.216 min Scan# 1178
Delta R.T. 0.023 min
Lab File: BP016399.D
Acq: 27 Jul 2023 14:29

Tgt Ion:122 Resp: 1139498

Ion	Ratio	Lower	Upper
122	100		
105	123.0	105.2	145.2
77	92.5	72.2	112.2

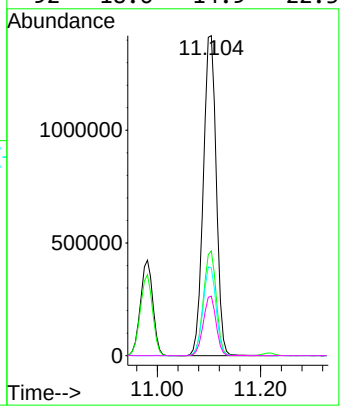




#33
4-Chloroaniline
Concen: 60.691 ng
RT: 11.104 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP016399.D
Acq: 27 Jul 2023 14:29

Tgt Ion:127 Resp: 246713

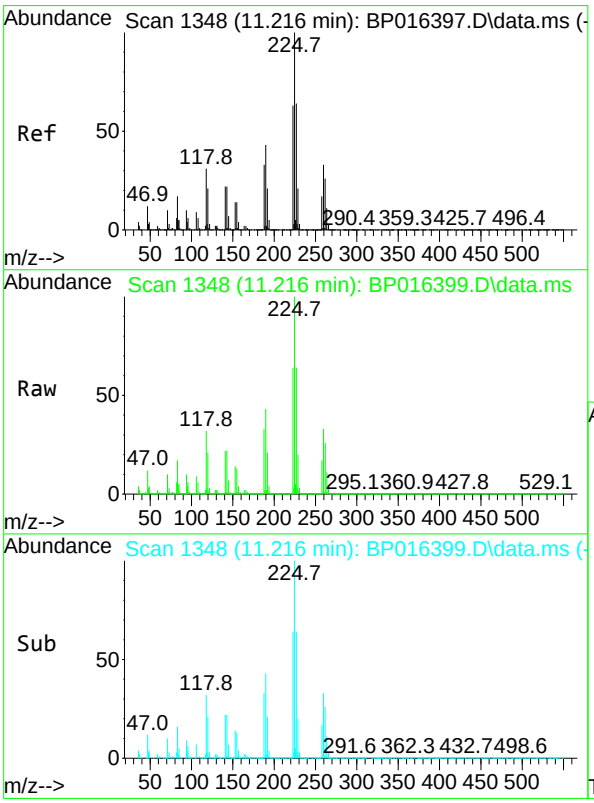
Ion	Ratio	Lower	Upper
127	100		
129	32.7	25.8	38.8
65	27.4	22.7	34.1
92	18.6	14.9	22.3



Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

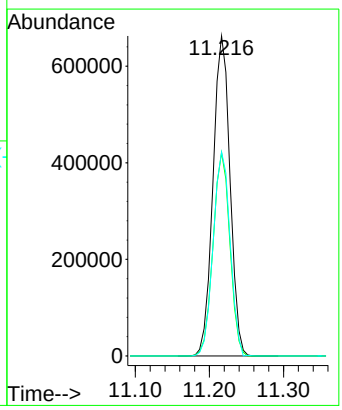
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

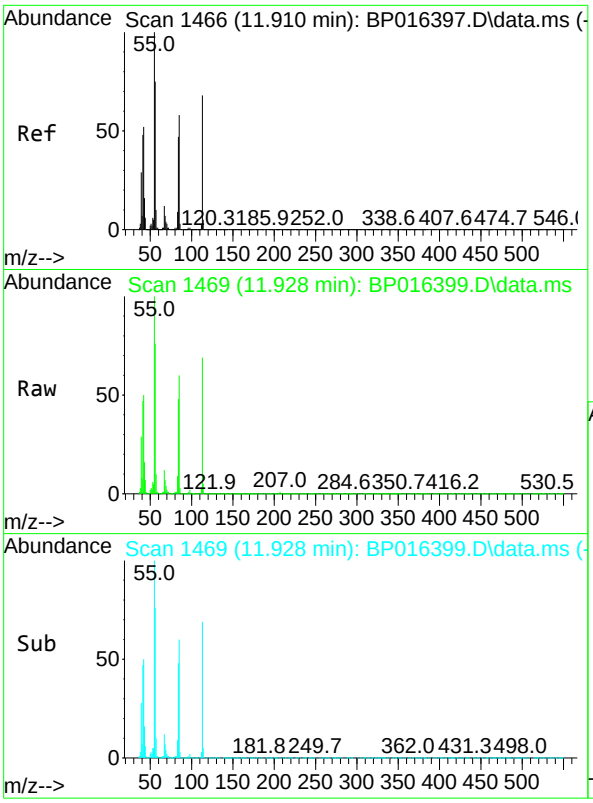


#34
Hexachlorobutadiene
Concen: 63.301 ng
RT: 11.216 min Scan# 1348
Delta R.T. -0.000 min
Lab File: BP016399.D
Acq: 27 Jul 2023 14:29

Tgt Ion:225 Resp: 1056060

Ion	Ratio	Lower	Upper
225	100		
223	63.7	50.2	75.4
227	63.7	51.0	76.6





#35
Caprolactam
Concen: 63.697 ng
RT: 11.928 min Scan# 14
Delta R.T. 0.018 min
Lab File: BP016399.D
Acq: 27 Jul 2023 14:29

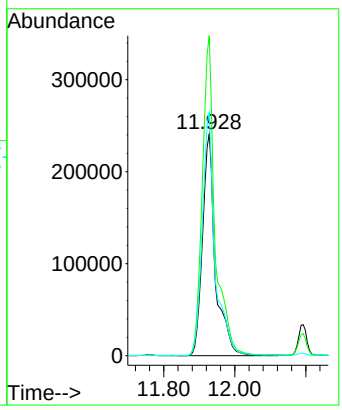
Tgt Ion:113 Resp: 60566

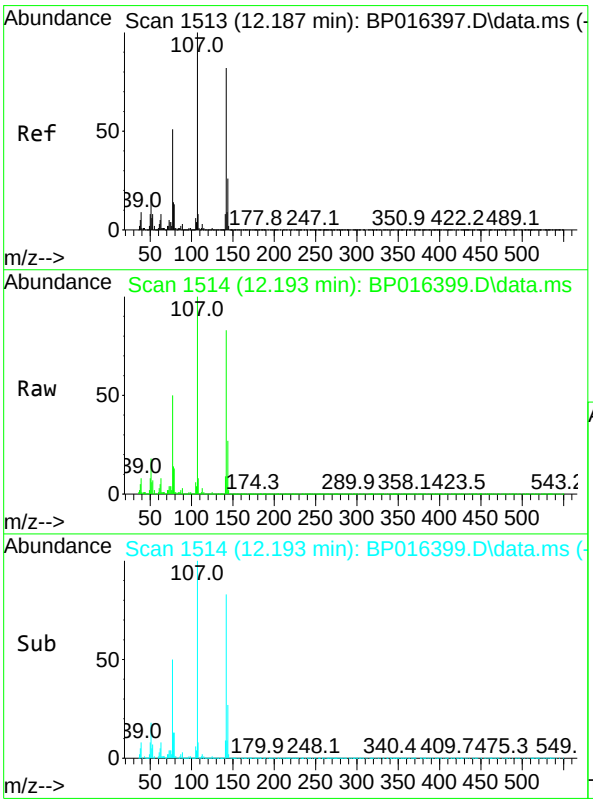
Ion	Ratio	Lower	Upper
113	100		
55	144.4	128.0	168.0
56	109.8	91.3	131.3

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

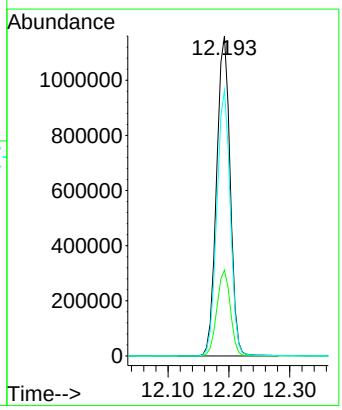


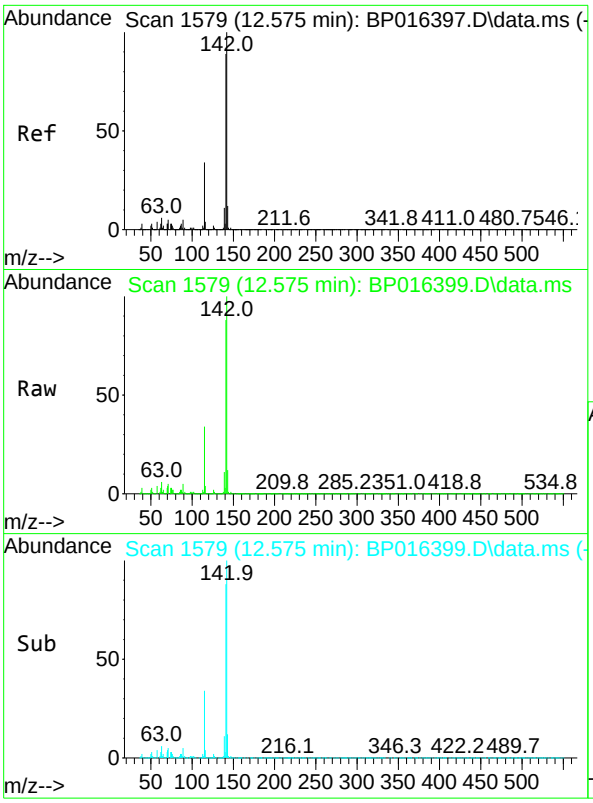


#36
4-Chloro-3-methylphenol
Concen: 62.056 ng
RT: 12.193 min Scan# 1514
Delta R.T. 0.006 min
Lab File: BP016399.D
Acq: 27 Jul 2023 14:29

Tgt Ion:107 Resp: 1794597

Ion	Ratio	Lower	Upper
107	100		
144	26.9	21.0	31.6
142	83.0	65.6	98.4

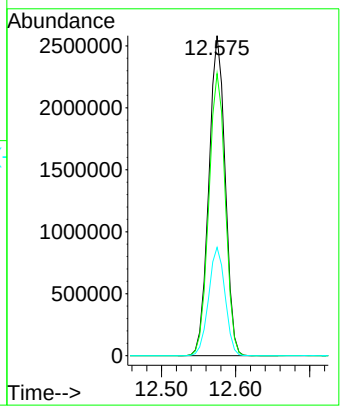




#37
2-Methylnaphthalene
Concen: 60.250 ng
RT: 12.575 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP016399.D
Acq: 27 Jul 2023 14:29

Tgt Ion:142 Resp: 394447

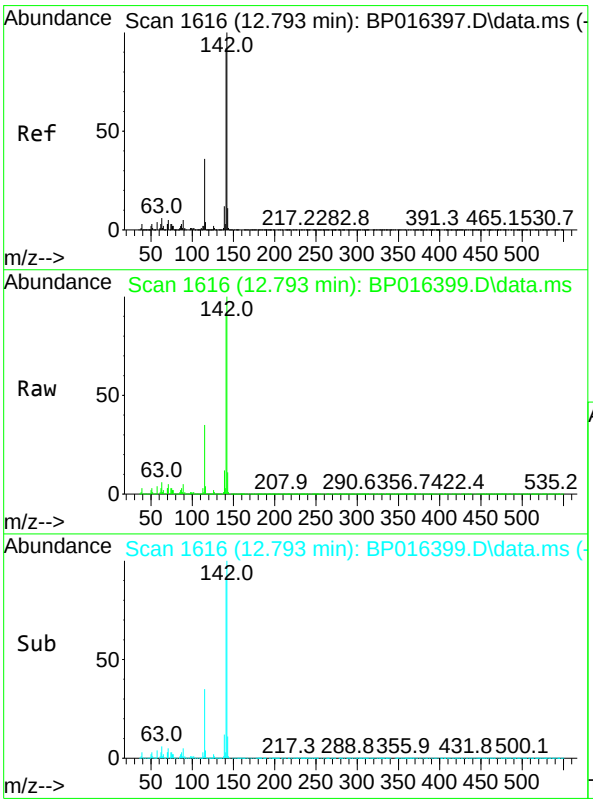
Ion	Ratio	Lower	Upper
142	100		
141	88.1	71.4	107.2
115	33.9	27.0	40.4



Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

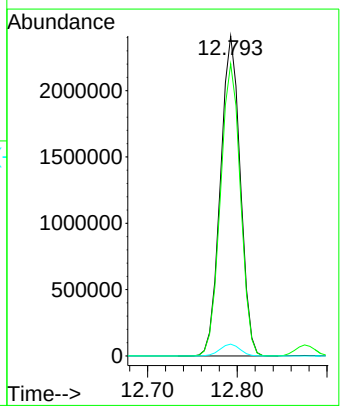
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

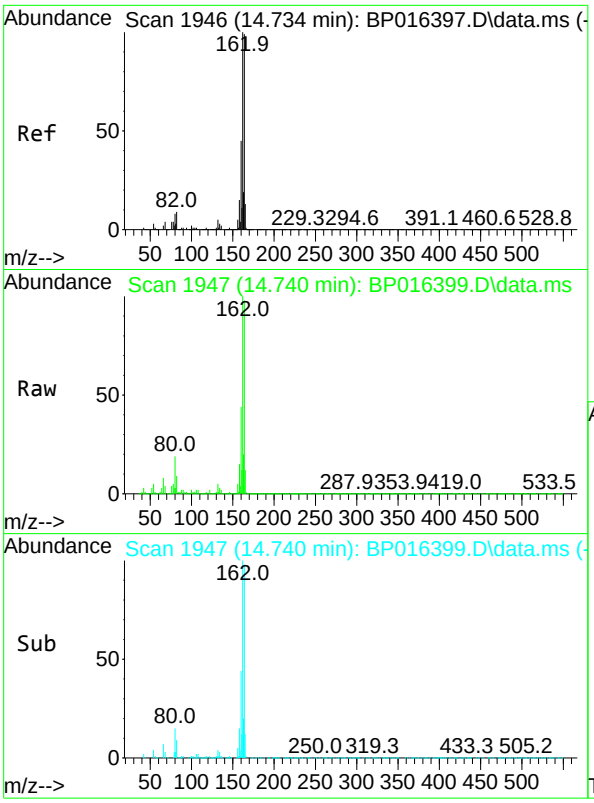


#38
1-Methylnaphthalene
Concen: 60.103 ng
RT: 12.793 min Scan# 1616
Delta R.T. -0.000 min
Lab File: BP016399.D
Acq: 27 Jul 2023 14:29

Tgt Ion:142 Resp: 3689032

Ion	Ratio	Lower	Upper
142	100		
141	91.3	73.8	110.6
116	3.7	2.9	4.3

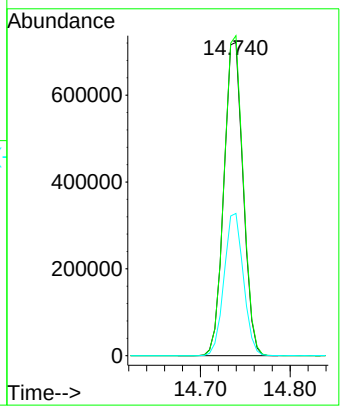




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.740 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP016399.D
Acq: 27 Jul 2023 14:29

Tgt Ion:164 Resp: 107222

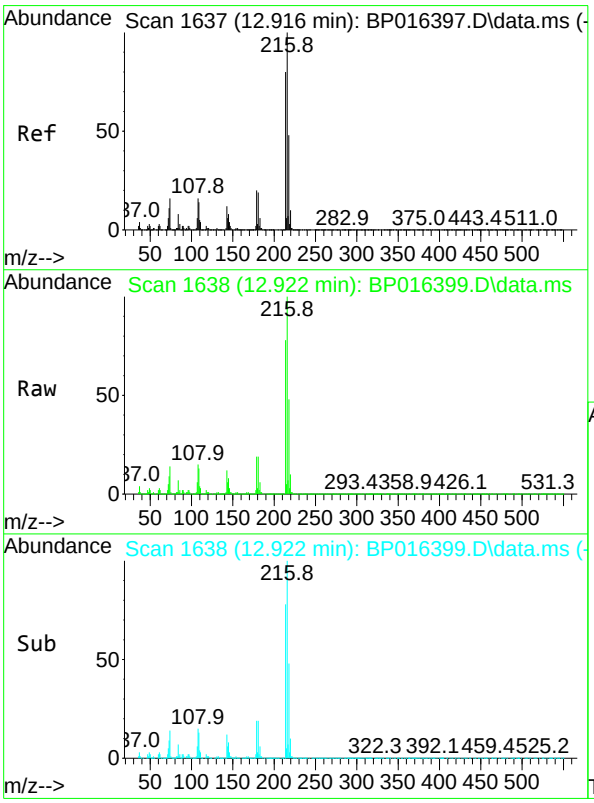
Ion	Ratio	Lower	Upper
164	100		
162	102.1	81.0	121.6
160	45.4	36.6	55.0



Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

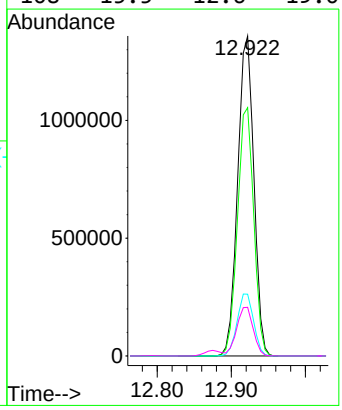
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

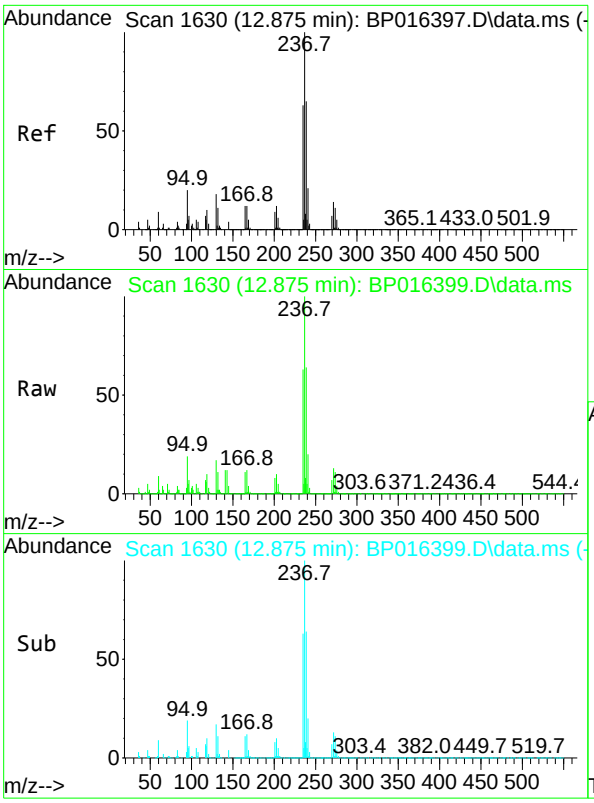


#40
1,2,4,5-Tetrachlorobenzene
Concen: 63.125 ng
RT: 12.922 min Scan# 1638
Delta R.T. 0.006 min
Lab File: BP016399.D
Acq: 27 Jul 2023 14:29

Tgt Ion:216 Resp: 2056876

Ion	Ratio	Lower	Upper
216	100		
214	78.1	62.8	94.2
179	19.8	16.0	24.0
108	15.5	12.6	19.0

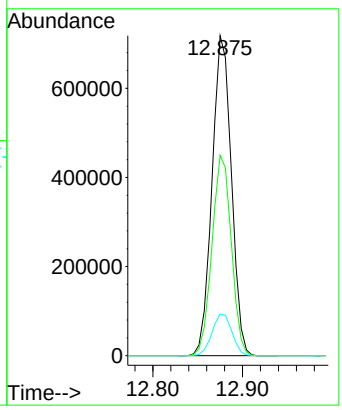




#41
Hexachlorocyclopentadiene
Concen: 65.569 ng
RT: 12.875 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP016399.D
Acq: 27 Jul 2023 14:29

Tgt Ion:237 Resp: 107302

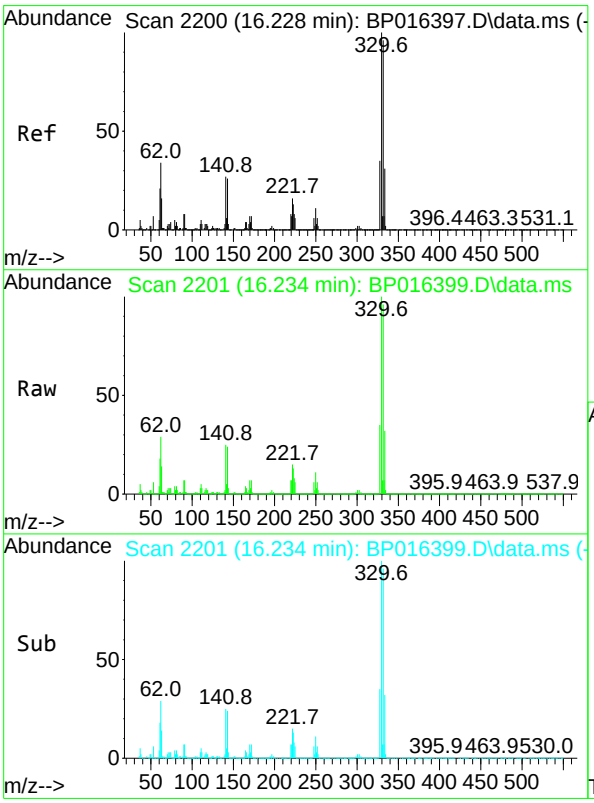
Ion	Ratio	Lower	Upper
237	100		
235	62.6	42.7	82.7
272	13.0	0.0	33.5



Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

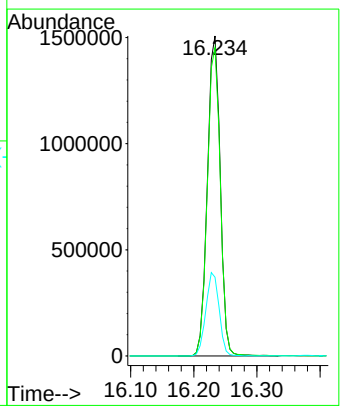
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

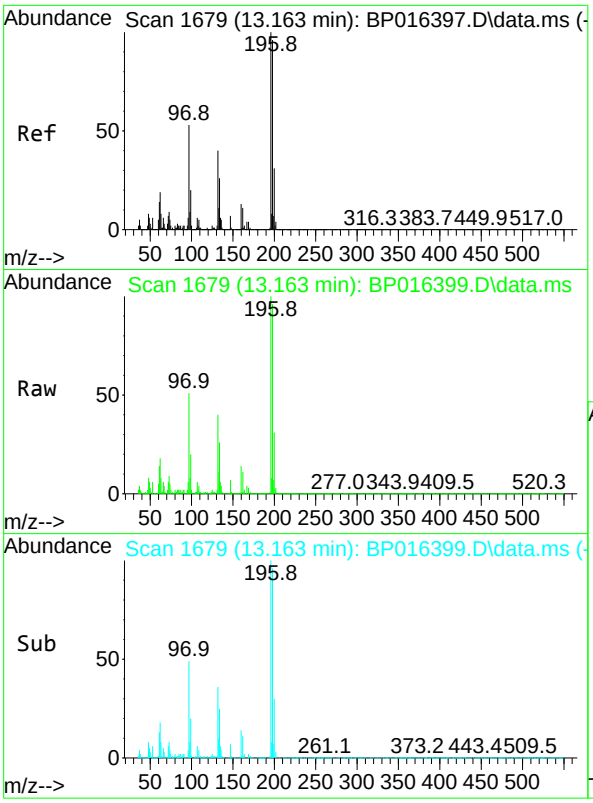


#42
2,4,6-Tribromophenol
Concen: 134.618 ng
RT: 16.234 min Scan# 2201
Delta R.T. 0.006 min
Lab File: BP016399.D
Acq: 27 Jul 2023 14:29

Tgt Ion:330 Resp: 2123468

Ion	Ratio	Lower	Upper
330	100		
332	97.4	77.8	116.8
141	26.9	22.6	34.0

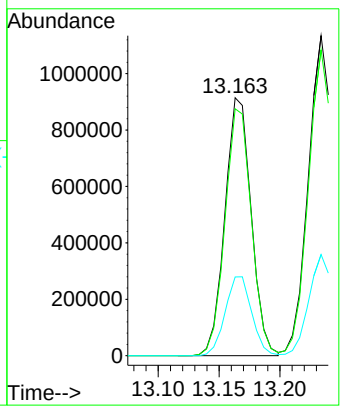




#43
2,4,6-Trichlorophenol
Concen: 65.715 ng
RT: 13.163 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP016399.D
Acq: 27 Jul 2023 14:29

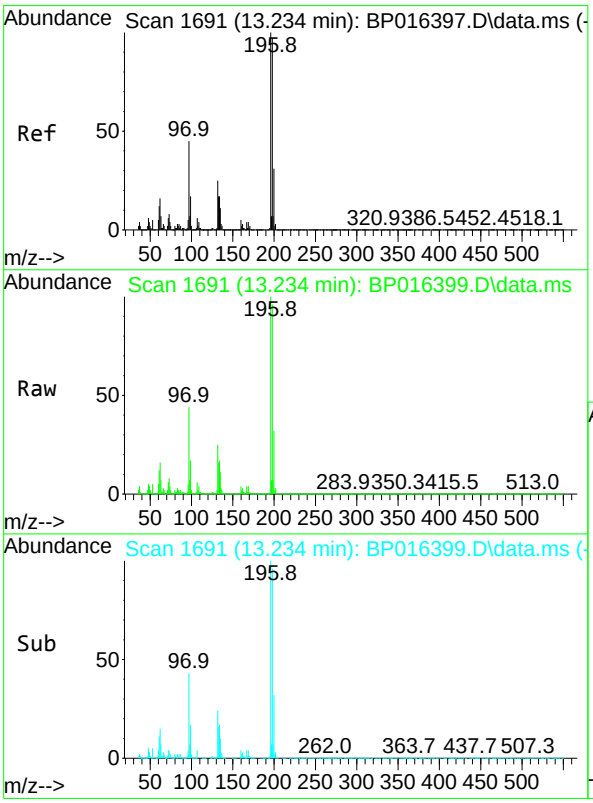
Tgt Ion:196 Resp: 137391

Ion	Ratio	Lower	Upper
196	100		
198	95.7	77.0	115.4
200	30.5	24.5	36.7



Instrument :
BNA_P
ClientSampleId :
SSTDICC060

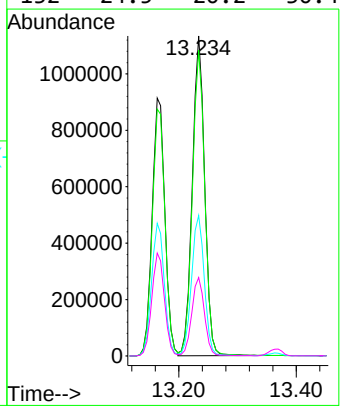
Manual Integrations APPROVED
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

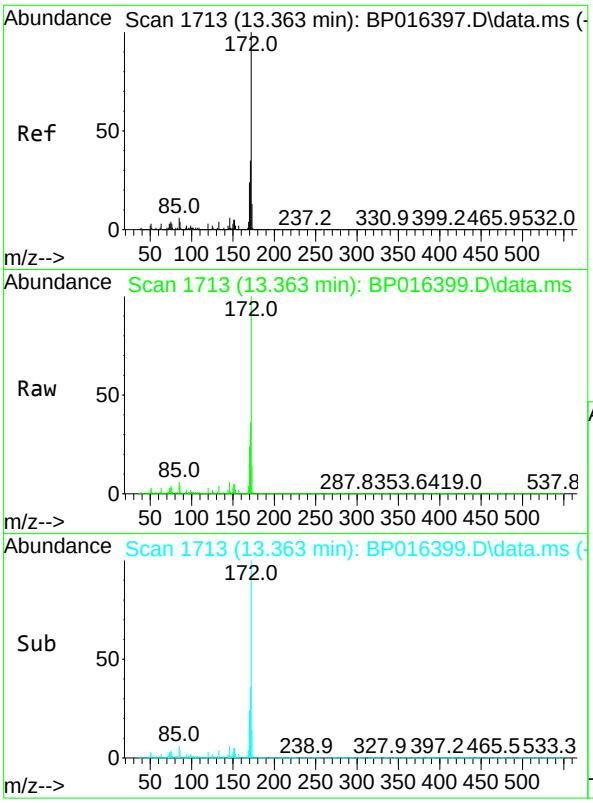


#44
2,4,5-Trichlorophenol
Concen: 65.137 ng
RT: 13.234 min Scan# 1691
Delta R.T. -0.000 min
Lab File: BP016399.D
Acq: 27 Jul 2023 14:29

Tgt Ion:196 Resp: 1652197

Ion	Ratio	Lower	Upper
196	100		
198	95.5	77.3	115.9
97	43.9	36.2	54.4
132	24.5	20.2	30.4

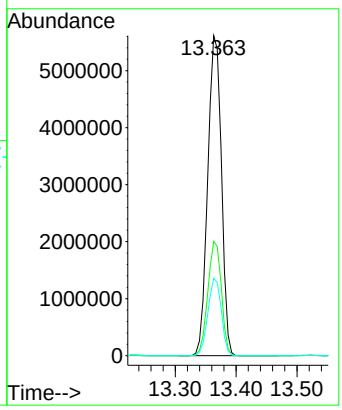




#45
2-Fluorobiphenyl
Concen: 117.083 ng
RT: 13.363 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP016399.D
Acq: 27 Jul 2023 14:29

Tgt Ion:172 Resp: 875648

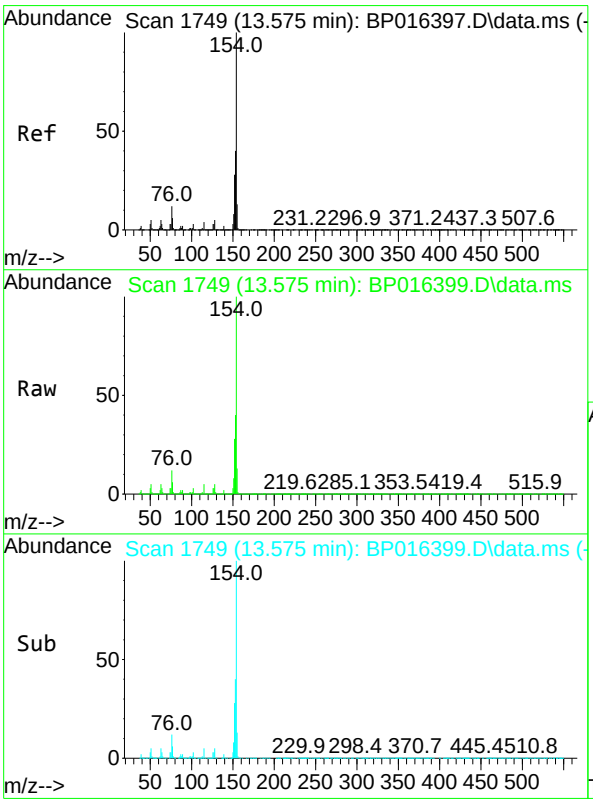
Ion	Ratio	Lower	Upper
172	100		
171	35.7	28.2	42.2
170	24.2	19.1	28.7



Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

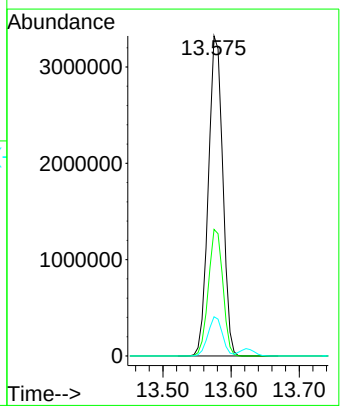
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

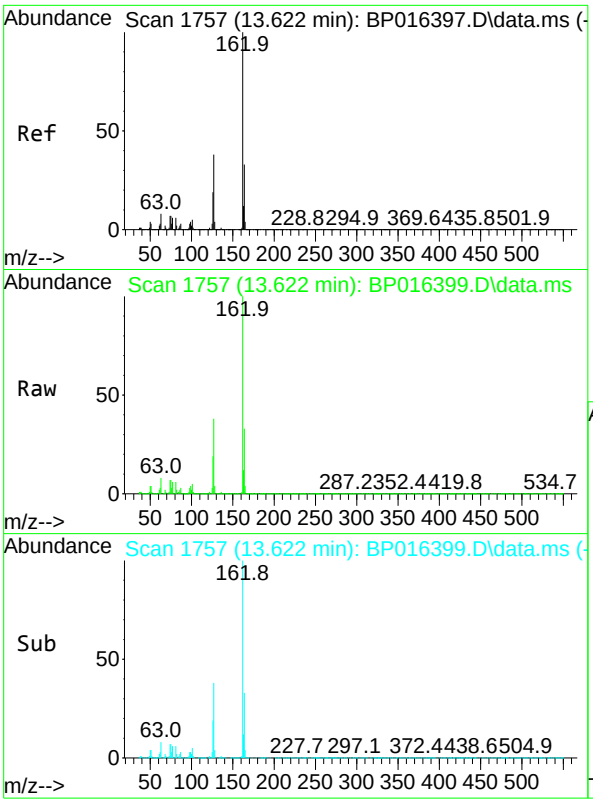


#46
1,1'-Biphenyl
Concen: 59.537 ng
RT: 13.575 min Scan# 1749
Delta R.T. -0.000 min
Lab File: BP016399.D
Acq: 27 Jul 2023 14:29

Tgt Ion:154 Resp: 4866198

Ion	Ratio	Lower	Upper
154	100		
153	39.6	20.1	60.1
76	12.2	0.0	32.5

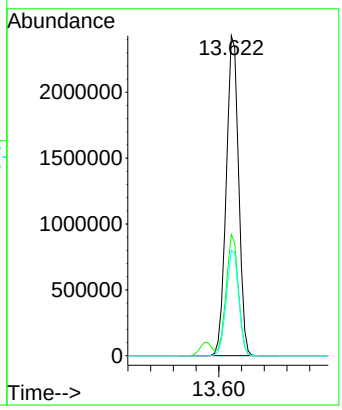




#47
2-Chloronaphthalene
Concen: 59.843 ng
RT: 13.622 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP016399.D
Acq: 27 Jul 2023 14:29

Tgt Ion:162 Resp: 369012

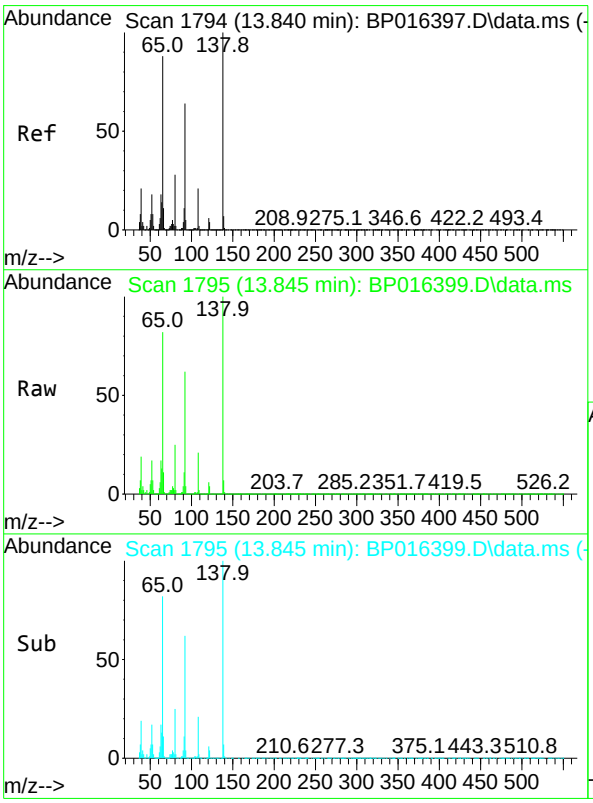
Ion	Ratio	Lower	Upper
162	100		
127	37.8	30.1	45.1
164	33.0	26.6	39.8



Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

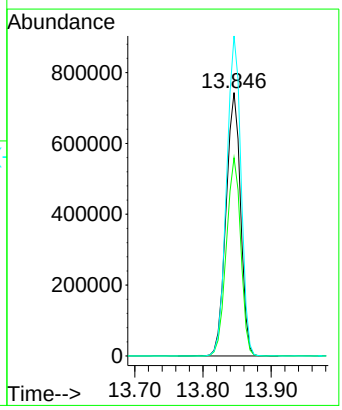
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

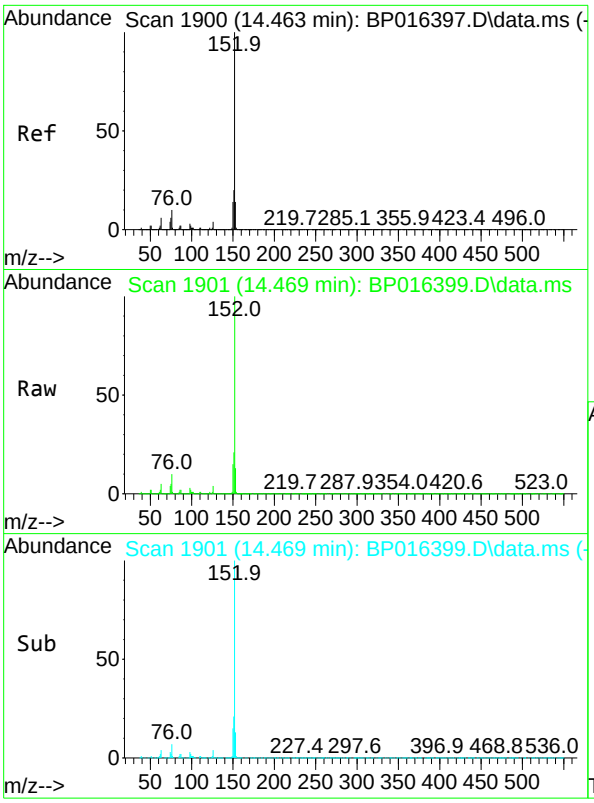


#48
2-Nitroaniline
Concen: 63.720 ng
RT: 13.845 min Scan# 1795
Delta R.T. 0.006 min
Lab File: BP016399.D
Acq: 27 Jul 2023 14:29

Tgt Ion: 65 Resp: 1107558

Ion	Ratio	Lower	Upper
65	100		
92	75.3	58.2	87.4
138	121.5	91.3	136.9

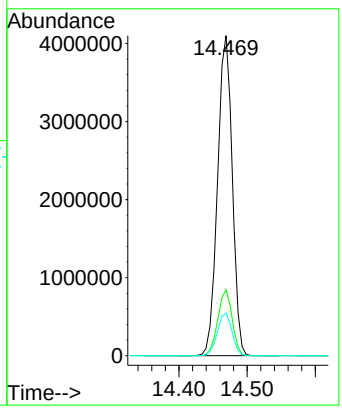




#49
Acenaphthylene
Concen: 60.177 ng
RT: 14.469 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP016399.D
Acq: 27 Jul 2023 14:29

Tgt Ion:152 Resp: 615676

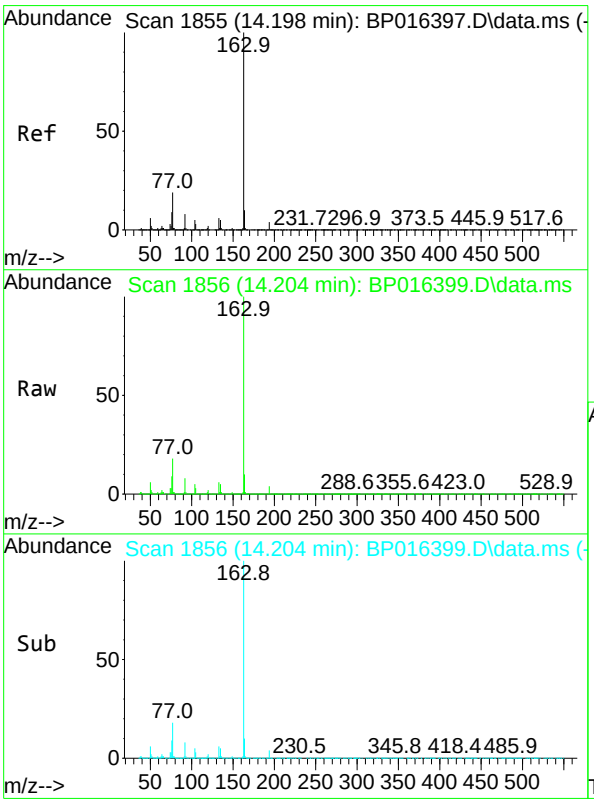
Ion	Ratio	Lower	Upper
152	100		
151	20.5	16.2	24.4
153	13.3	10.8	16.2



Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

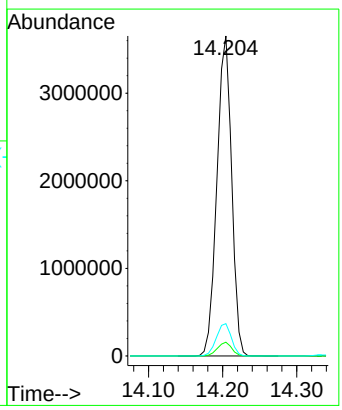
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

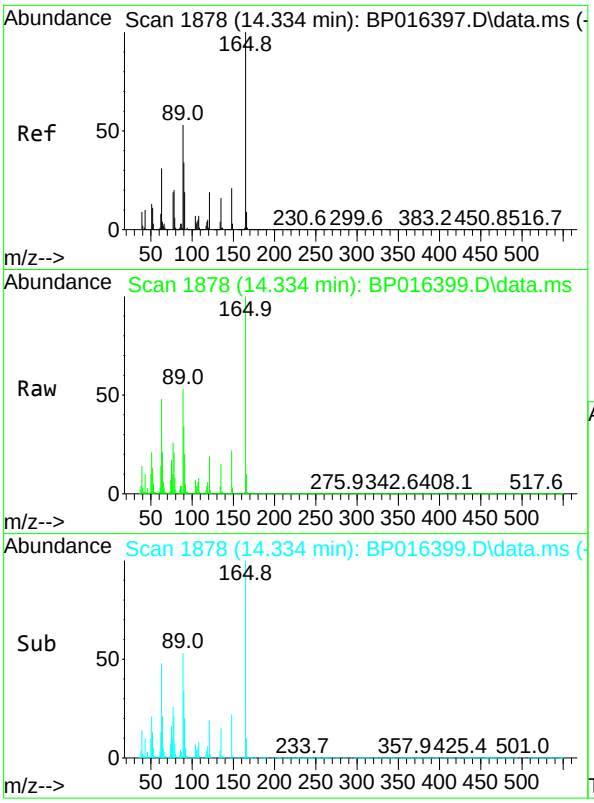


#50
Dimethylphthalate
Concen: 60.183 ng
RT: 14.204 min Scan# 1856
Delta R.T. 0.006 min
Lab File: BP016399.D
Acq: 27 Jul 2023 14:29

Tgt Ion:163 Resp: 5028553

Ion	Ratio	Lower	Upper
163	100		
194	4.3	3.4	5.2
164	10.1	8.2	12.2





#51
2,6-Dinitrotoluene
Concen: 64.794 ng
RT: 14.334 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP016399.D
Acq: 27 Jul 2023 14:29

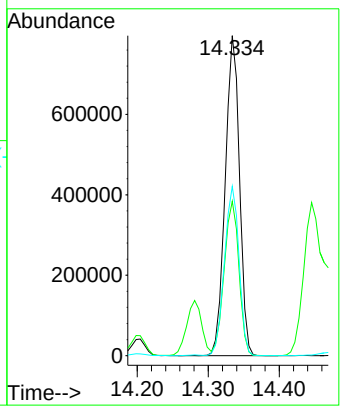
Tgt Ion:165 Resp: 110909

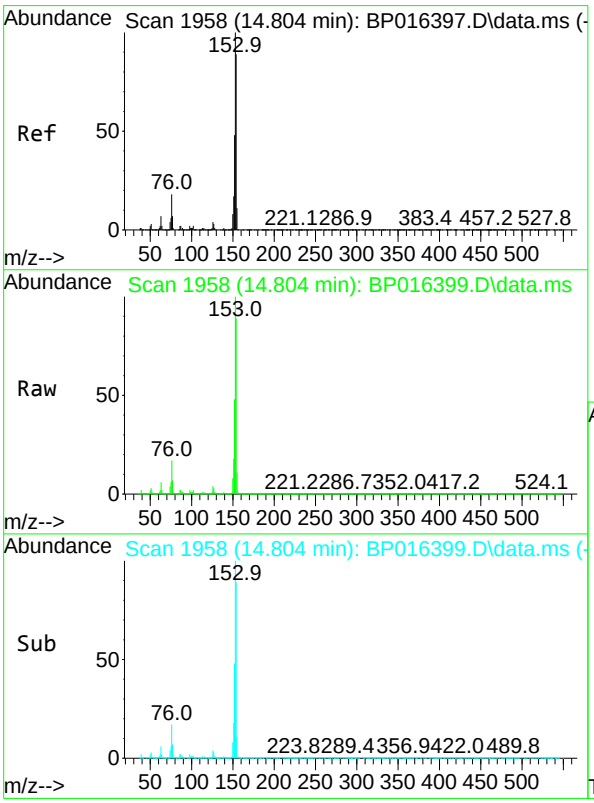
Ion	Ratio	Lower	Upper
165	100		
63	48.3	39.1	58.7
89	52.9	42.5	63.7

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

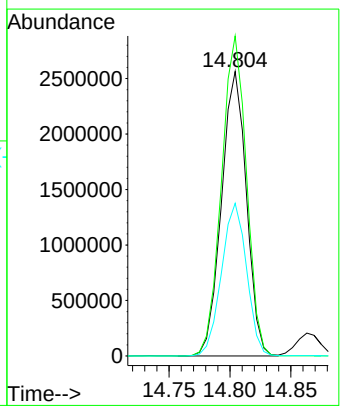


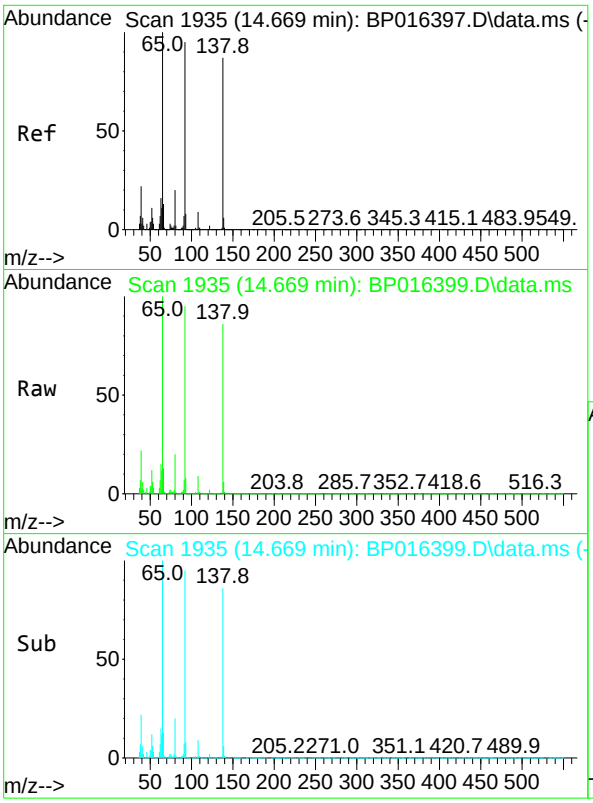


#52
Acenaphthene
Concen: 60.053 ng
RT: 14.804 min Scan# 1958
Delta R.T. -0.000 min
Lab File: BP016399.D
Acq: 27 Jul 2023 14:29

Tgt Ion:154 Resp: 3653627

Ion	Ratio	Lower	Upper
154	100		
153	112.5	90.4	135.6
152	53.6	43.4	65.0

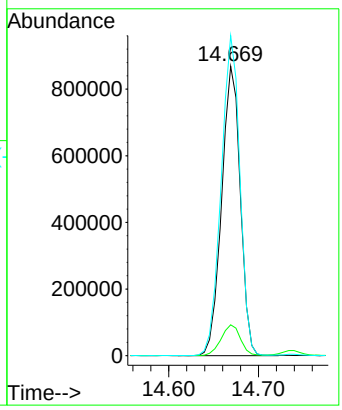




#53
3-Nitroaniline
Concen: 64.702 ng
RT: 14.669 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP016399.D
Acq: 27 Jul 2023 14:29

Tgt Ion:138 Resp: 125211

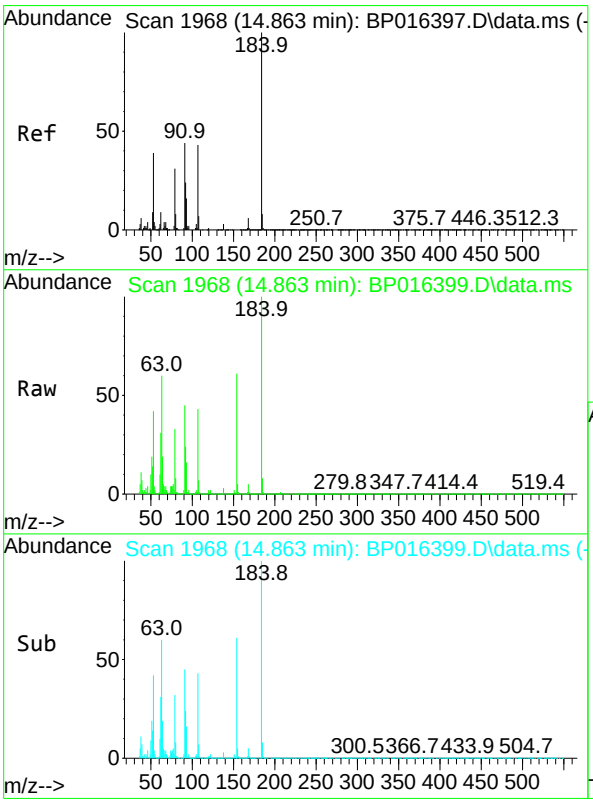
Ion	Ratio	Lower	Upper
138	100		
108	10.7	8.7	13.1
92	110.5	87.6	131.4



Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

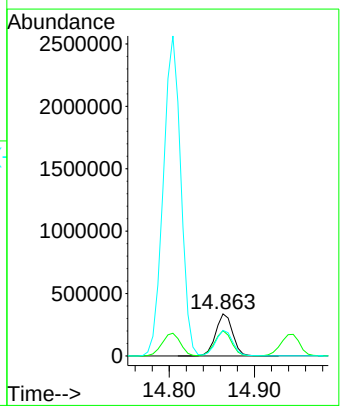
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

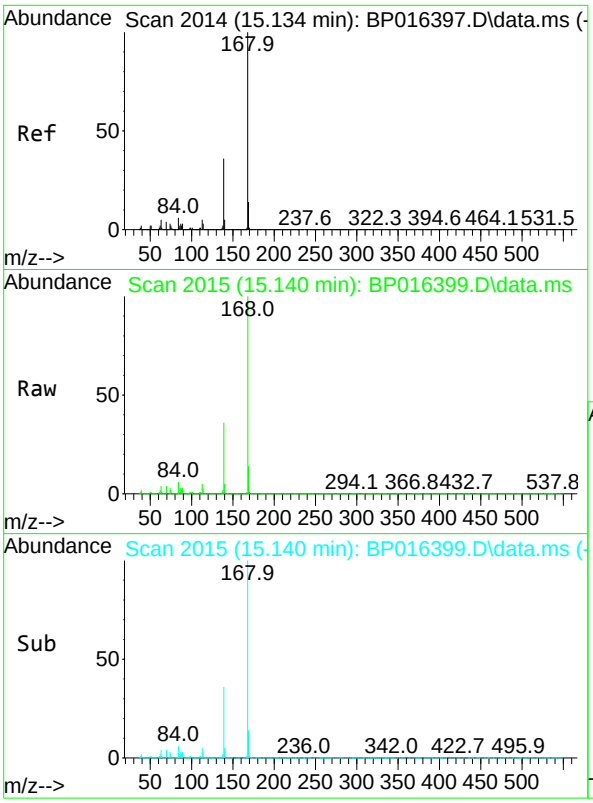


#54
2,4-Dinitrophenol
Concen: 60.319 ng
RT: 14.863 min Scan# 1968
Delta R.T. 0.000 min
Lab File: BP016399.D
Acq: 27 Jul 2023 14:29

Tgt Ion:184 Resp: 465503

Ion	Ratio	Lower	Upper
184	100		
63	60.1	48.2	72.4
154	61.1	49.6	74.4

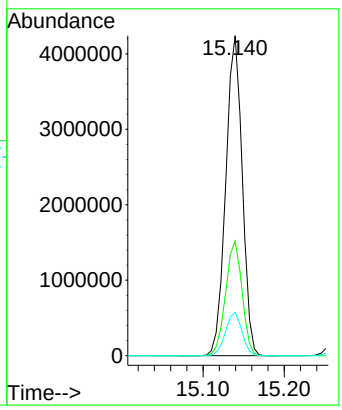




#55
Dibenzofuran
Concen: 59.932 ng
RT: 15.140 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP016399.D
Acq: 27 Jul 2023 14:29

Tgt Ion:168 Resp: 598012

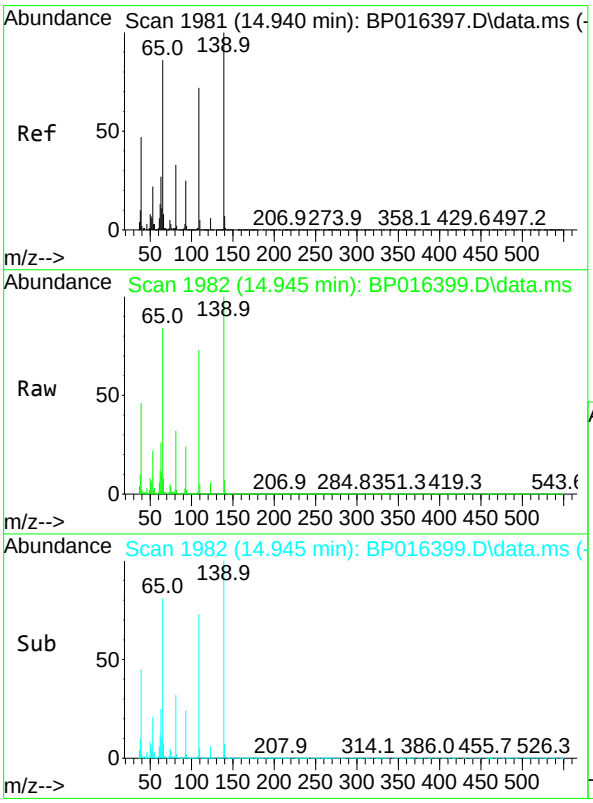
Ion	Ratio	Lower	Upper
168	100		
139	35.8	28.9	43.3
169	13.6	11.0	16.4



Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

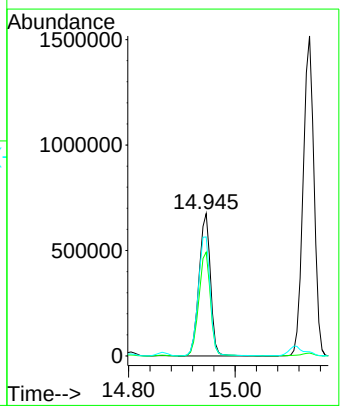
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

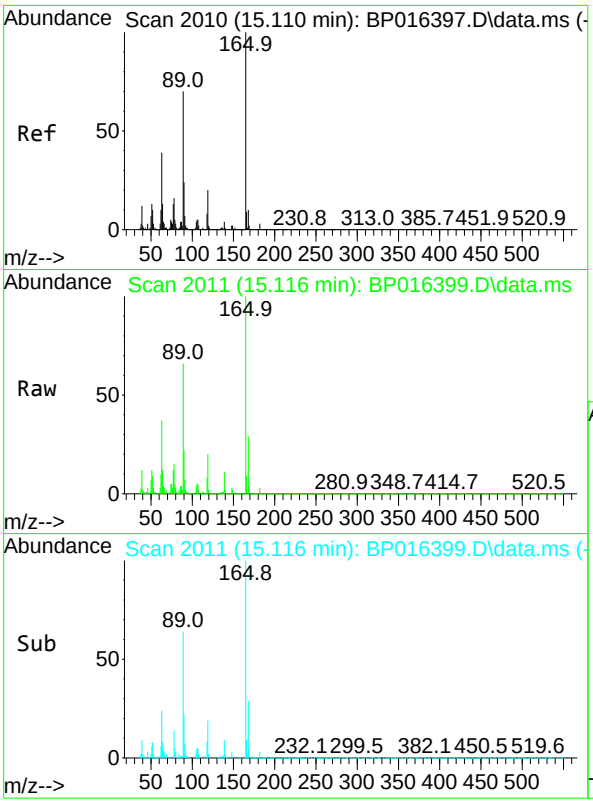


#56
4-Nitrophenol
Concen: 66.225 ng
RT: 14.945 min Scan# 1982
Delta R.T. 0.006 min
Lab File: BP016399.D
Acq: 27 Jul 2023 14:29

Tgt Ion:139 Resp: 1003212

Ion	Ratio	Lower	Upper
139	100		
109	72.9	51.9	91.9
65	83.6	66.2	106.2

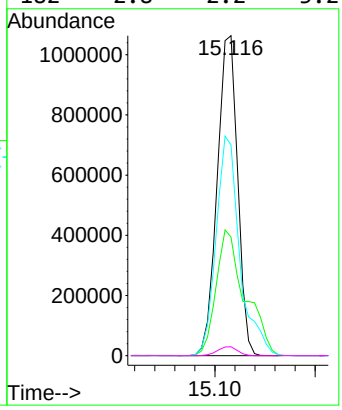




#57
2,4-Dinitrotoluene
Concen: 67.421 ng
RT: 15.116 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP016399.D
Acq: 27 Jul 2023 14:29

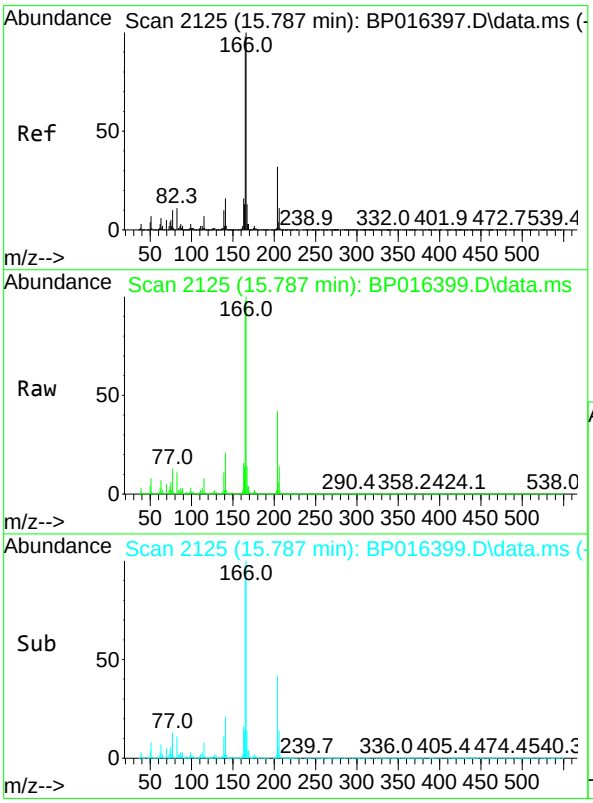
Tgt Ion:165 Resp: 150404

Ion	Ratio	Lower	Upper
165	100		
63	37.1	31.4	47.0
89	65.8	55.8	83.6
182	2.8	2.2	3.2



Instrument :
BNA_P
ClientSampleId :
SSTDICC060

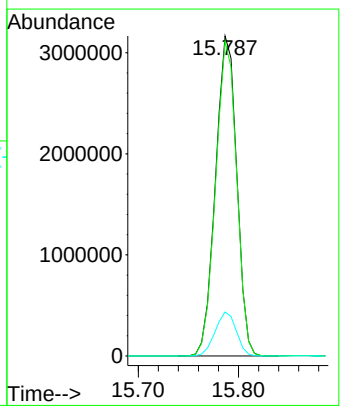
Manual Integrations APPROVED
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

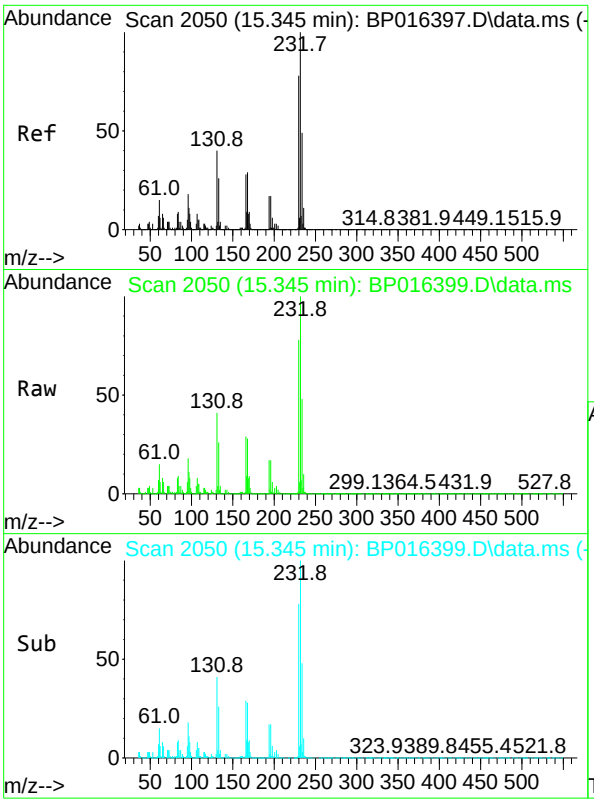


#58
Fluorene
Concen: 59.240 ng
RT: 15.787 min Scan# 2125
Delta R.T. -0.000 min
Lab File: BP016399.D
Acq: 27 Jul 2023 14:29

Tgt Ion:166 Resp: 4643902

Ion	Ratio	Lower	Upper
166	100		
165	98.3	78.0	117.0
167	13.8	10.6	16.0

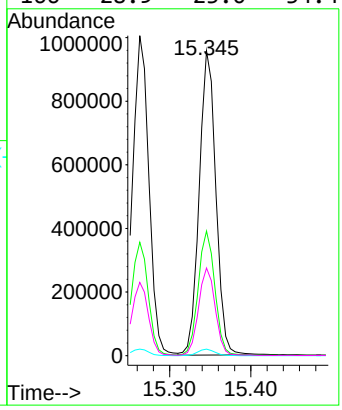




#59
2,3,4,6-Tetrachlorophenol
Concen: 65.357 ng
RT: 15.345 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP016399.D
Acq: 27 Jul 2023 14:29

Tgt Ion:232 Resp: 136371

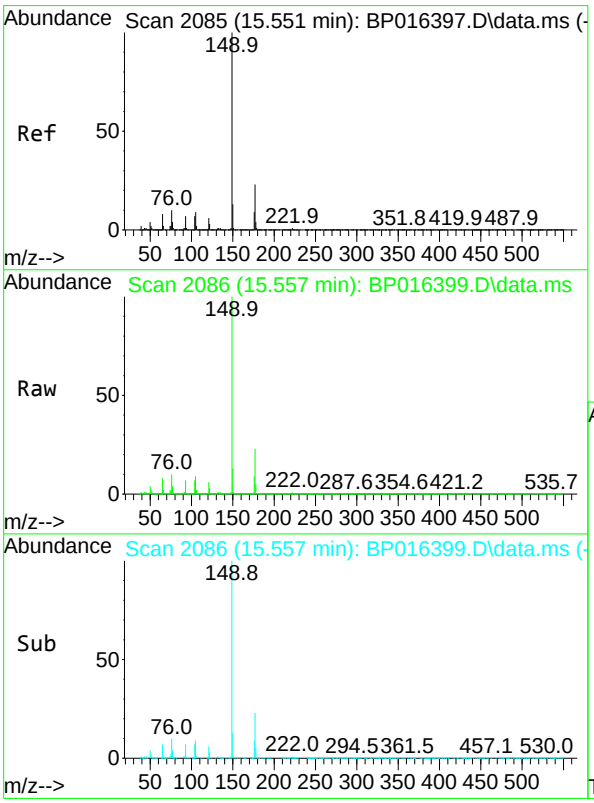
Ion	Ratio	Lower	Upper
232	100		
131	41.6	33.1	49.7
130	2.2	1.8	2.8
166	28.9	23.0	34.4



Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

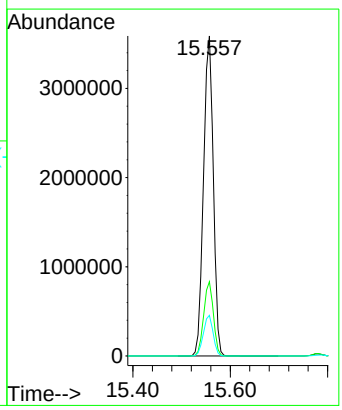
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

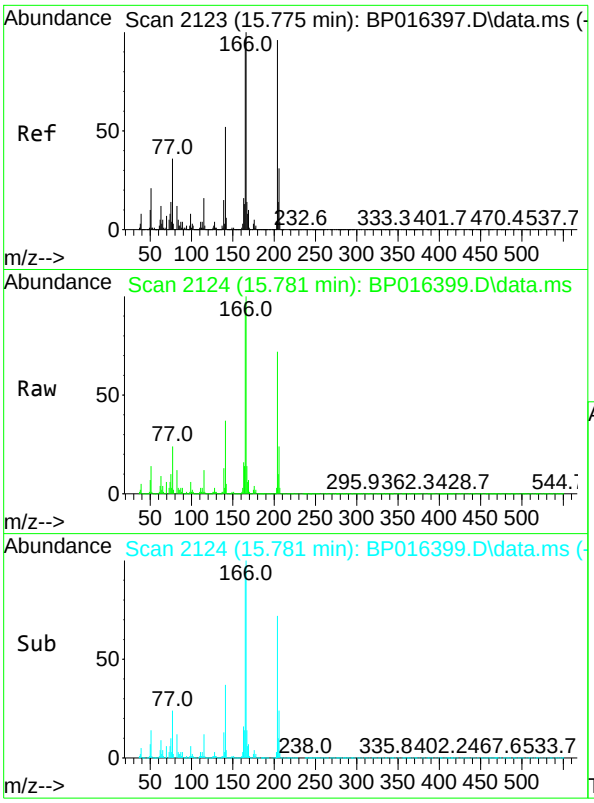


#60
Diethylphthalate
Concen: 60.037 ng
RT: 15.557 min Scan# 2086
Delta R.T. 0.006 min
Lab File: BP016399.D
Acq: 27 Jul 2023 14:29

Tgt Ion:149 Resp: 4985205

Ion	Ratio	Lower	Upper
149	100		
177	23.2	18.6	27.8
150	12.7	10.1	15.1

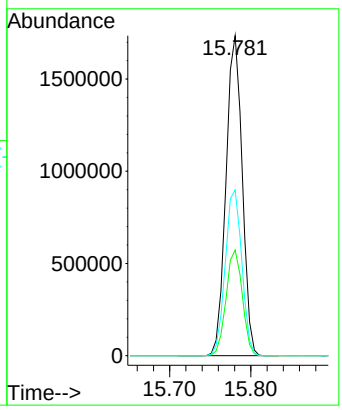




#61
4-Chlorophenyl-phenylether
Concen: 60.925 ng
RT: 15.781 min Scan# 21
Delta R.T. 0.006 min
Lab File: BP016399.D
Acq: 27 Jul 2023 14:29

Tgt Ion:204 Resp: 241006

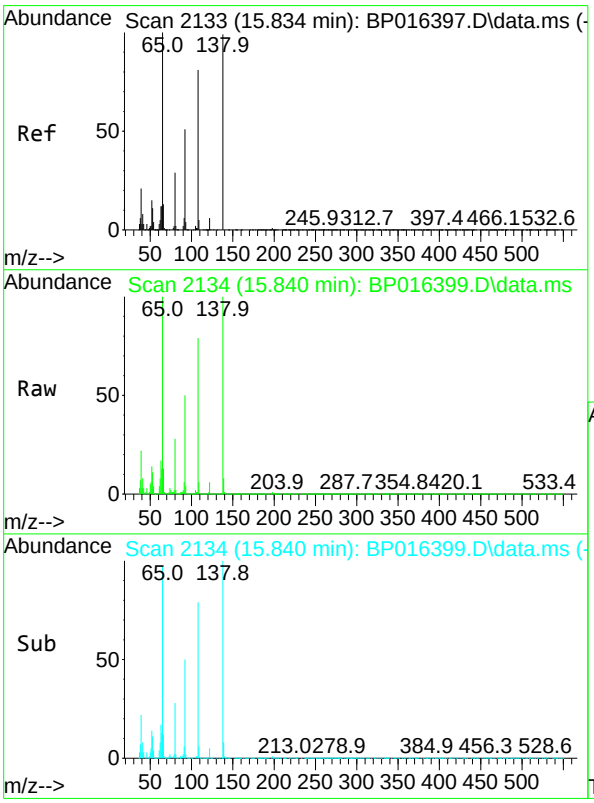
Ion	Ratio	Lower	Upper
204	100		
206	33.0	26.2	39.4
141	51.8	43.4	65.0



Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

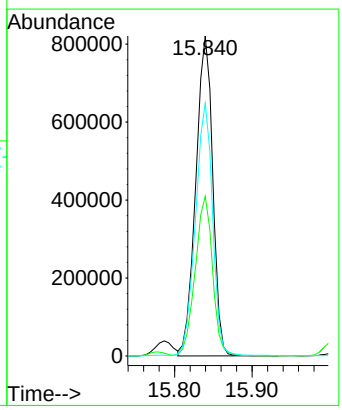
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

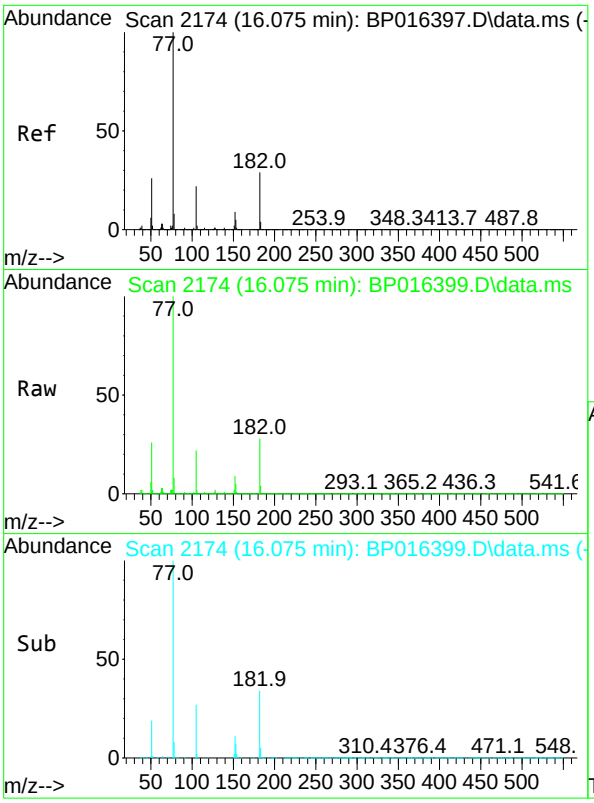


#62
4-Nitroaniline
Concen: 64.808 ng
RT: 15.840 min Scan# 2134
Delta R.T. 0.006 min
Lab File: BP016399.D
Acq: 27 Jul 2023 14:29

Tgt Ion:138 Resp: 1244642

Ion	Ratio	Lower	Upper
138	100		
92	49.9	30.3	70.3
108	79.0	60.1	100.1

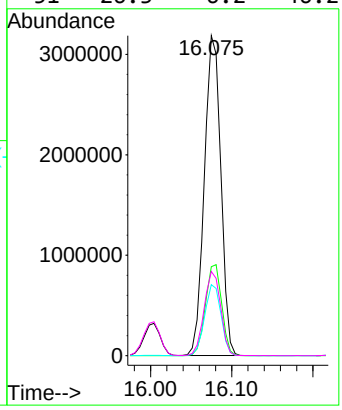




#63
Azobenzene
Concen: 57.255 ng
RT: 16.075 min Scan# 21
Delta R.T. -0.000 min
Lab File: BP016399.D
Acq: 27 Jul 2023 14:29

Tgt Ion: 77 Resp: 448903

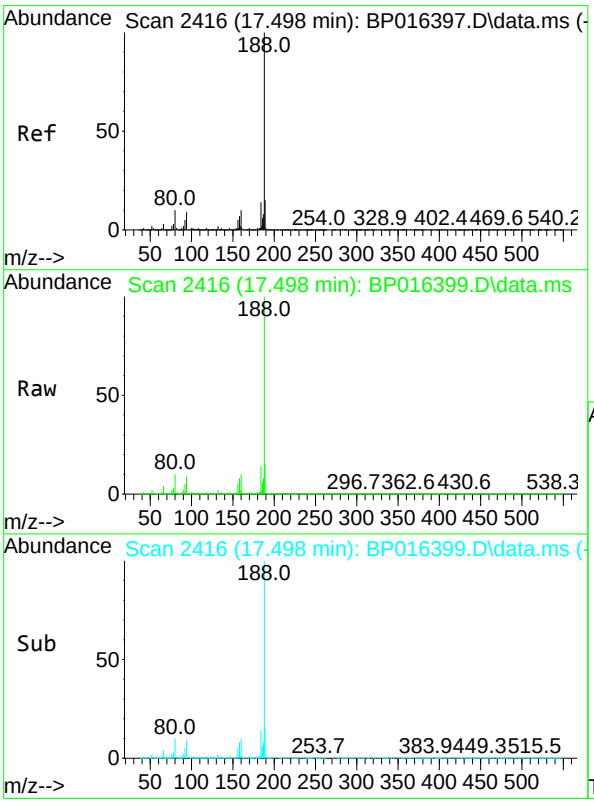
Ion	Ratio	Lower	Upper
77	100		
182	27.8	8.6	48.6
105	22.2	2.4	42.4
51	26.3	6.2	46.2



Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

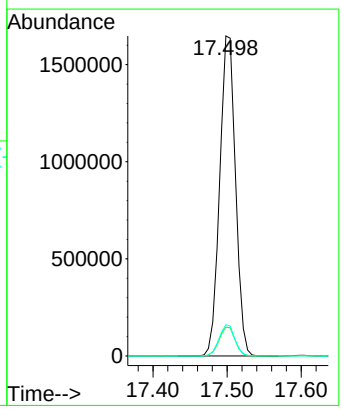
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

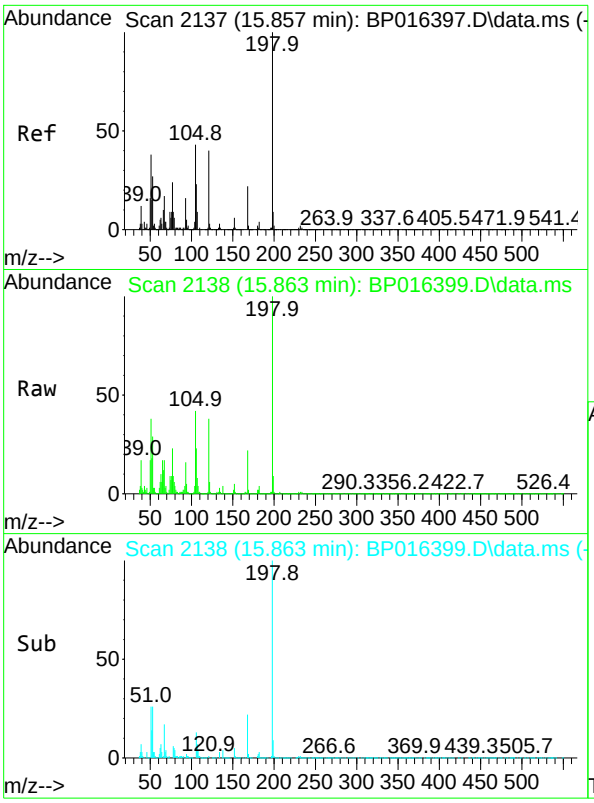


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.498 min Scan# 2416
Delta R.T. -0.000 min
Lab File: BP016399.D
Acq: 27 Jul 2023 14:29

Tgt Ion:188 Resp: 2443129

Ion	Ratio	Lower	Upper
188	100		
94	9.1	7.4	11.0
80	9.8	7.8	11.8

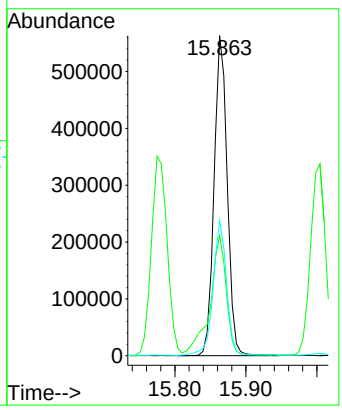




#65
4,6-Dinitro-2-methylphenol
Concen: 61.023 ng
RT: 15.863 min Scan# 21
Delta R.T. 0.006 min
Lab File: BP016399.D
Acq: 27 Jul 2023 14:29

Tgt Ion:198 Resp: 72059

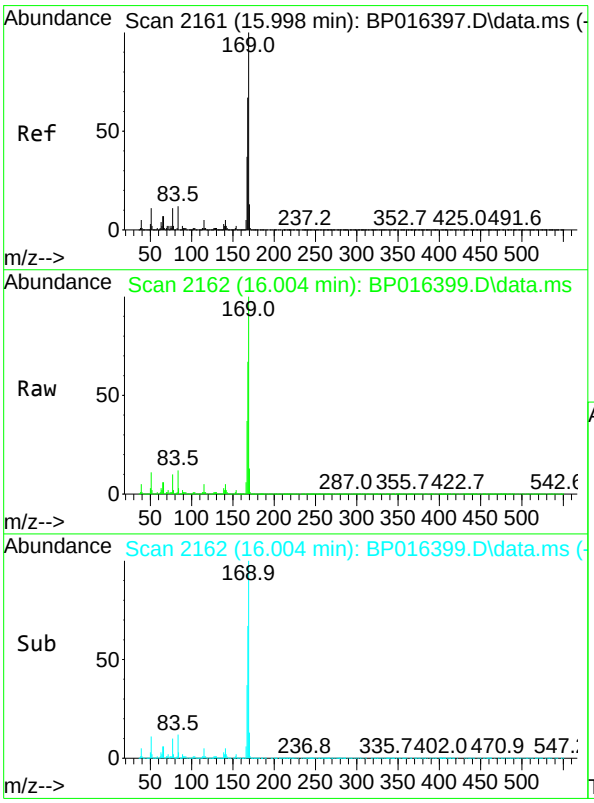
Ion	Ratio	Lower	Upper
198	100		
51	37.6	20.1	60.1
105	42.2	23.1	63.1



Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

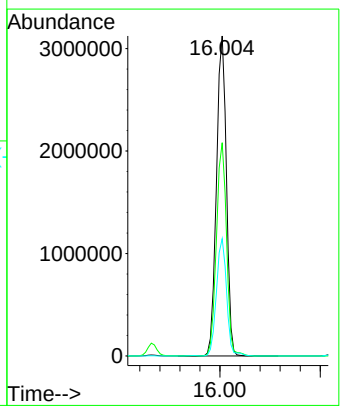
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

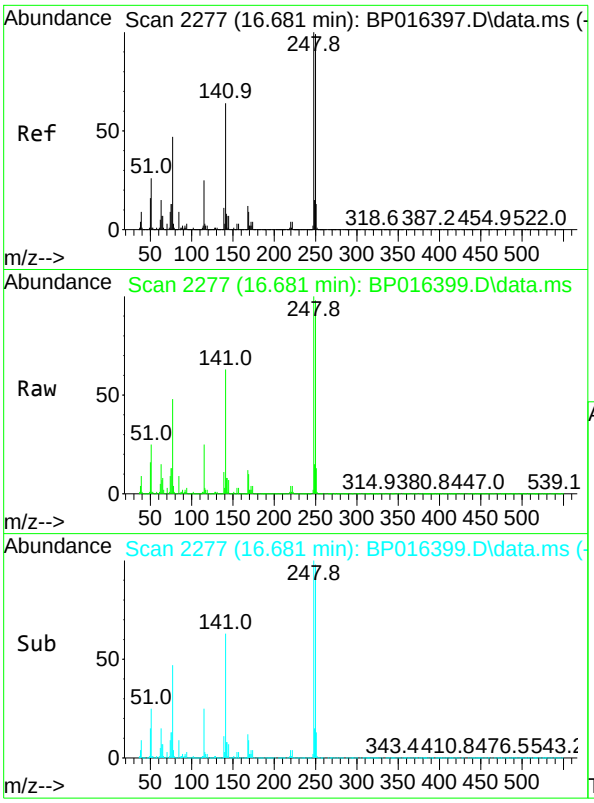


#66
n-Nitrosodiphenylamine
Concen: 59.467 ng
RT: 16.004 min Scan# 2162
Delta R.T. 0.006 min
Lab File: BP016399.D
Acq: 27 Jul 2023 14:29

Tgt Ion:169 Resp: 4281698

Ion	Ratio	Lower	Upper
169	100		
168	66.7	53.6	80.4
167	36.6	29.2	43.8

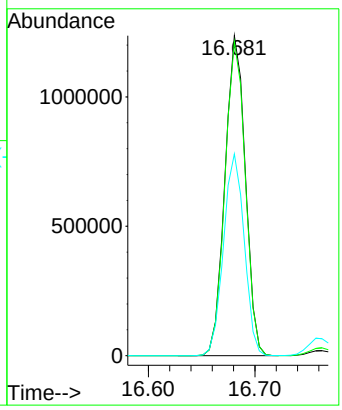




#67
4-Bromophenyl-phenylether
Concen: 63.604 ng
RT: 16.681 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP016399.D
Acq: 27 Jul 2023 14:29

Tgt Ion:248 Resp: 164541

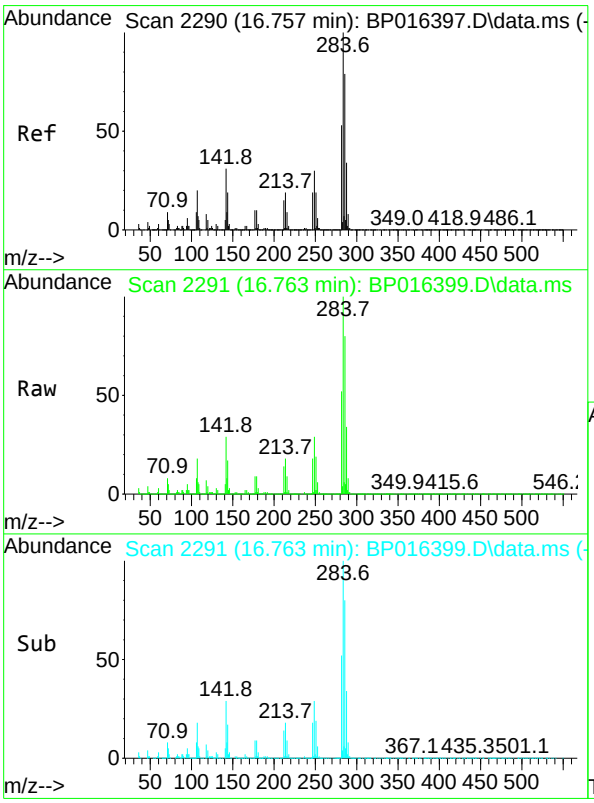
Ion	Ratio	Lower	Upper
248	100		
250	98.1	78.9	118.3
141	63.1	51.0	76.4



Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

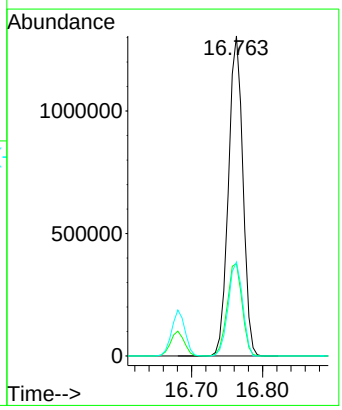
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

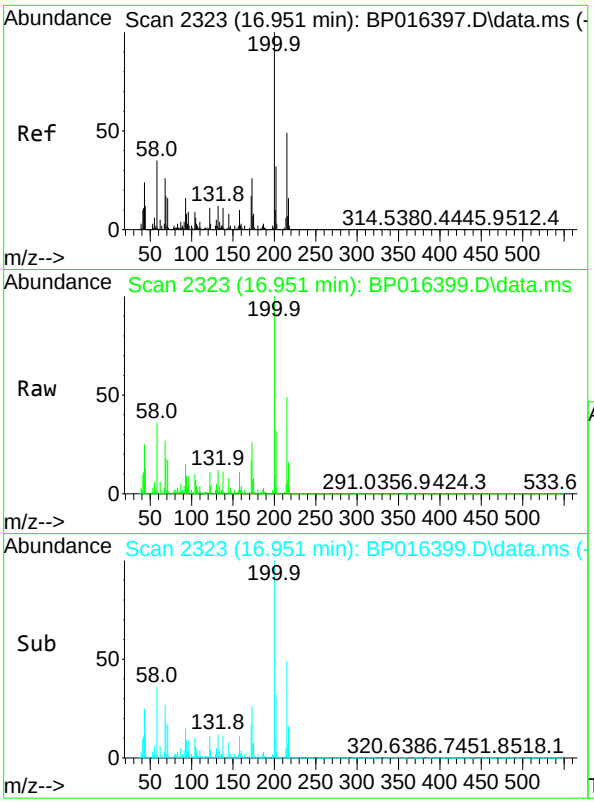


#68
Hexachlorobenzene
Concen: 63.857 ng
RT: 16.763 min Scan# 2291
Delta R.T. 0.006 min
Lab File: BP016399.D
Acq: 27 Jul 2023 14:29

Tgt Ion:284 Resp: 1842230

Ion	Ratio	Lower	Upper
284	100		
142	28.9	25.2	37.8
249	31.7	26.0	39.0

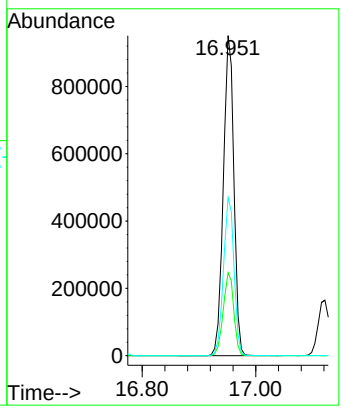




#69
Atrazine
Concen: 57.549 ng
RT: 16.951 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP016399.D
Acq: 27 Jul 2023 14:29

Tgt Ion:200 Resp: 123229

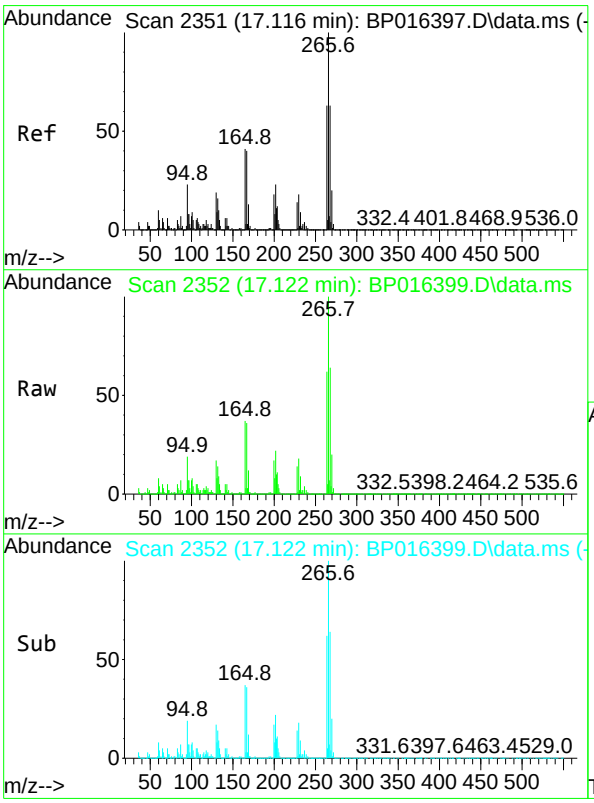
Ion	Ratio	Lower	Upper
200	100		
173	26.0	5.8	45.8
215	49.4	29.2	69.2



Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

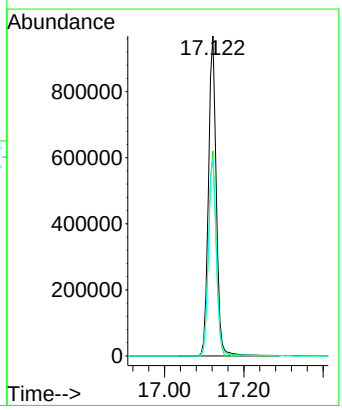
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

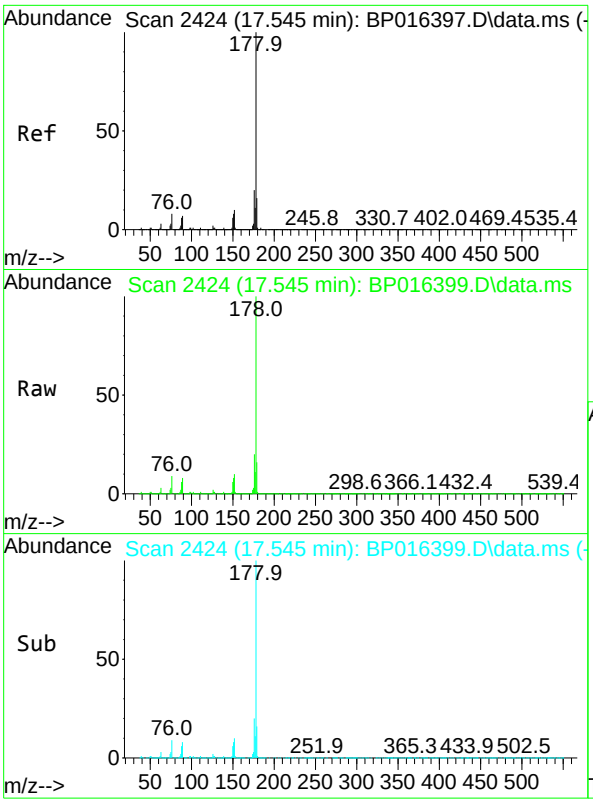


#70
Pentachlorophenol
Concen: 66.656 ng
RT: 17.122 min Scan# 2352
Delta R.T. 0.006 min
Lab File: BP016399.D
Acq: 27 Jul 2023 14:29

Tgt Ion:266 Resp: 1330748

Ion	Ratio	Lower	Upper
266	100		
268	68.3	53.9	80.9
264	66.5	54.9	82.3

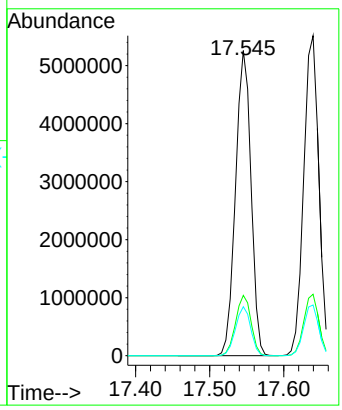




#71
Phenanthrene
Concen: 58.739 ng
RT: 17.545 min Scan# 24
Delta R.T. -0.000 min
Lab File: BP016399.D
Acq: 27 Jul 2023 14:29

Tgt Ion:178 Resp: 762015

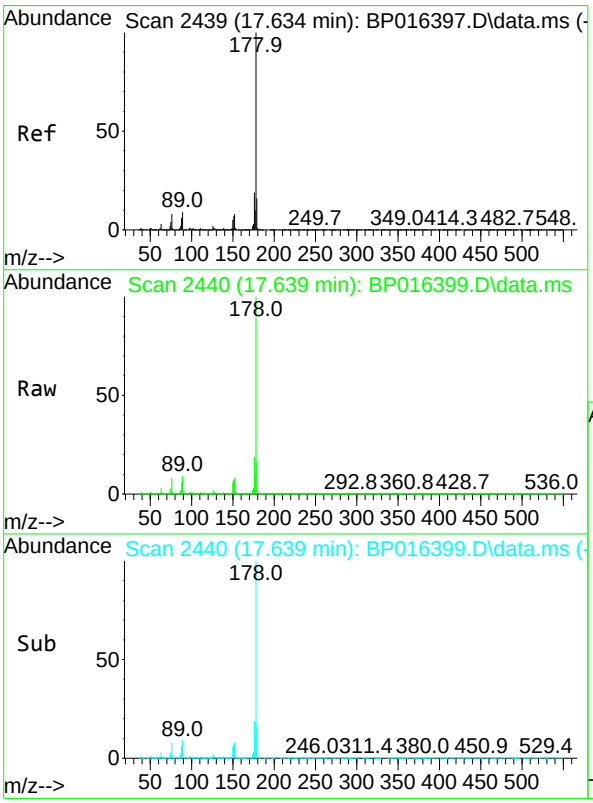
Ion	Ratio	Lower	Upper
178	100		
176	19.8	15.8	23.8
179	16.0	12.4	18.6



Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

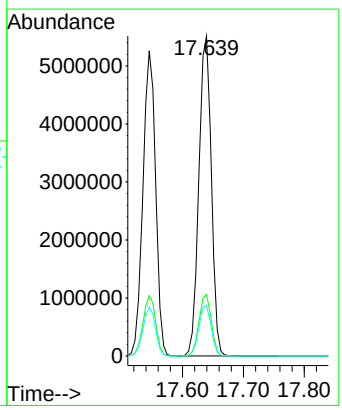
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

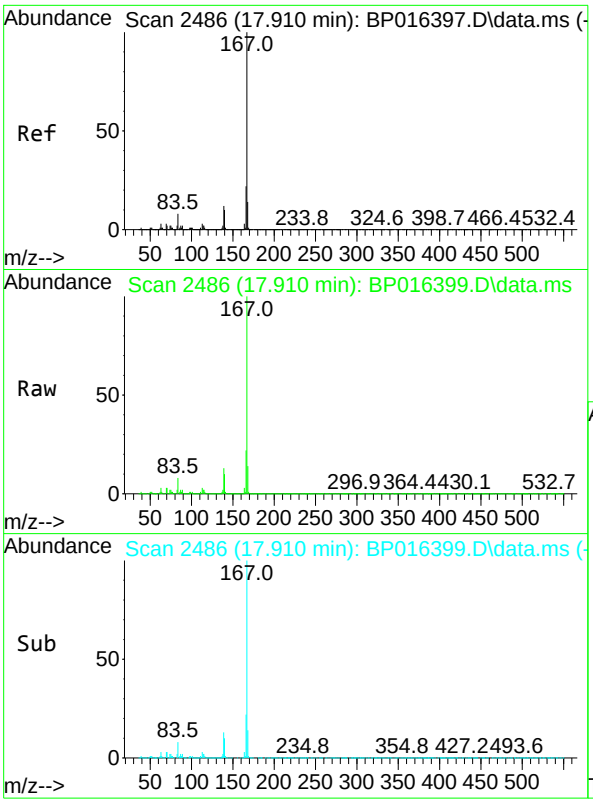


#72
Anthracene
Concen: 59.927 ng
RT: 17.639 min Scan# 2440
Delta R.T. 0.006 min
Lab File: BP016399.D
Acq: 27 Jul 2023 14:29

Tgt Ion:178 Resp: 7817344

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.2	22.8
179	15.8	12.6	19.0

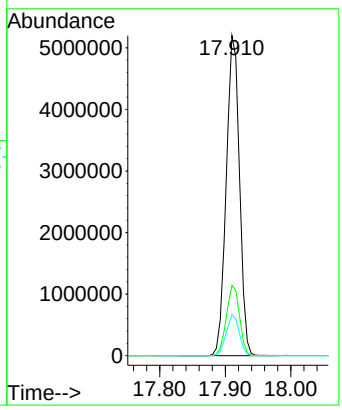




#73
Carbazole
Concen: 59.435 ng
RT: 17.910 min Scan# 24
Delta R.T. -0.000 min
Lab File: BP016399.D
Acq: 27 Jul 2023 14:29

Tgt Ion:167 Resp: 726893

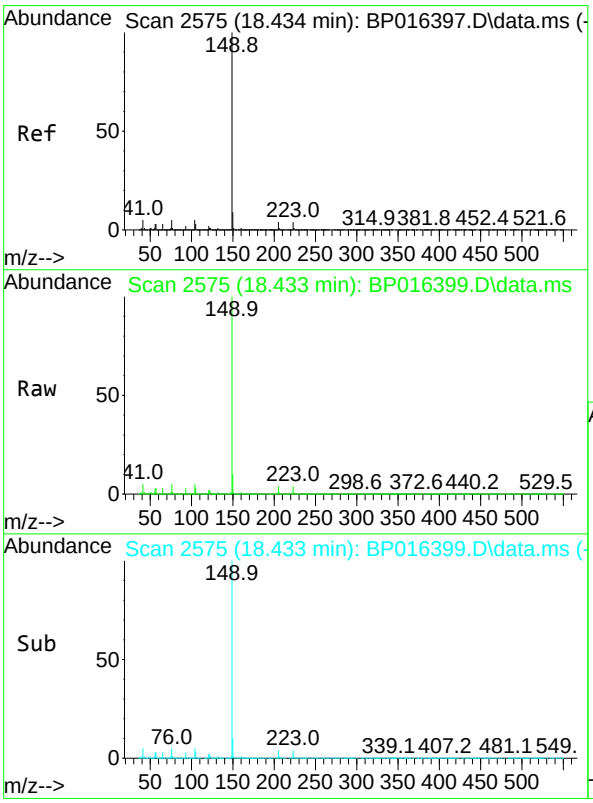
Ion	Ratio	Lower	Upper
167	100		
166	21.9	17.2	25.8
139	12.8	9.9	14.9



Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

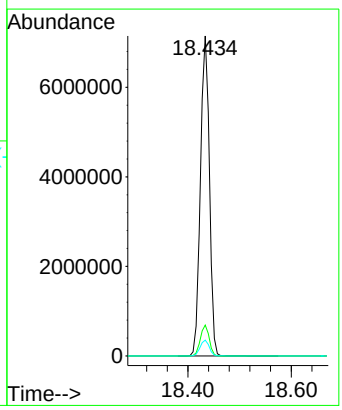
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

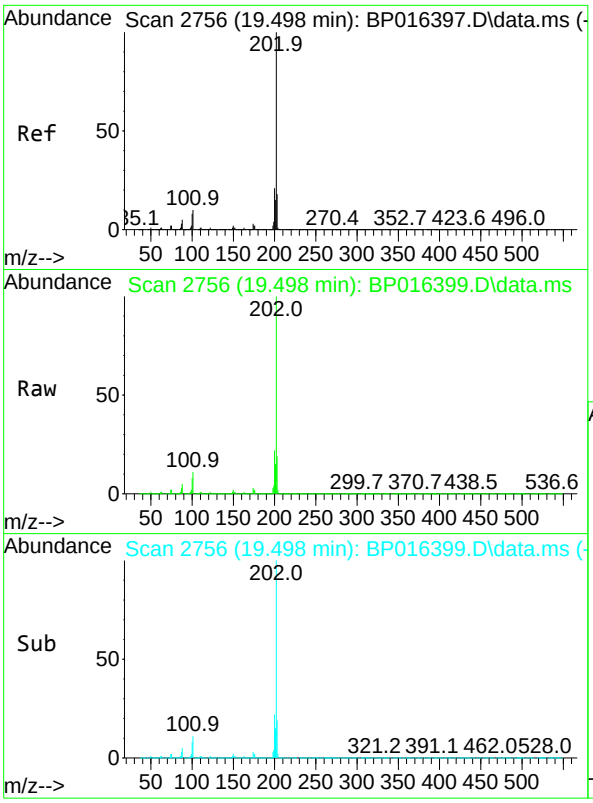


#74
Di-n-butylphthalate
Concen: 60.802 ng
RT: 18.433 min Scan# 2575
Delta R.T. -0.000 min
Lab File: BP016399.D
Acq: 27 Jul 2023 14:29

Tgt Ion:149 Resp: 8603045

Ion	Ratio	Lower	Upper
149	100		
150	9.7	7.4	11.2
104	4.9	3.8	5.8

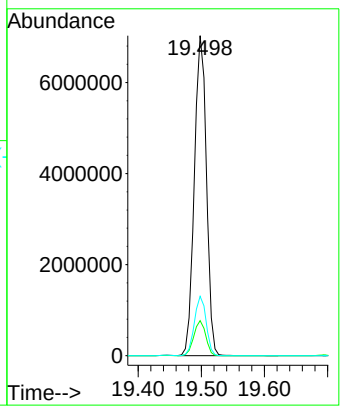




#75
Fluoranthene
Concen: 61.385 ng
RT: 19.498 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP016399.D
Acq: 27 Jul 2023 14:29

Tgt Ion:202 Resp: 933385

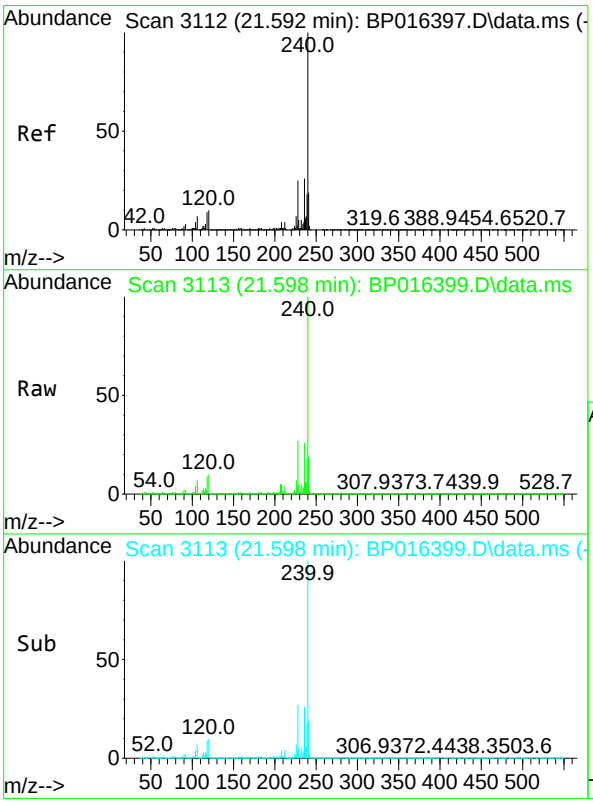
Ion	Ratio	Lower	Upper
202	100		
101	11.0	0.0	30.2
203	18.5	0.0	37.9



Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

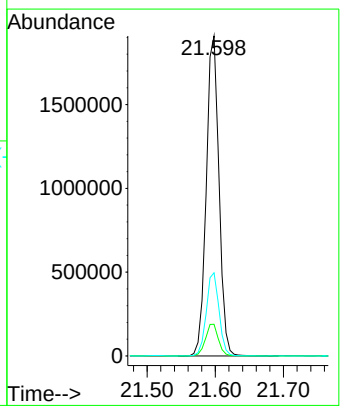
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

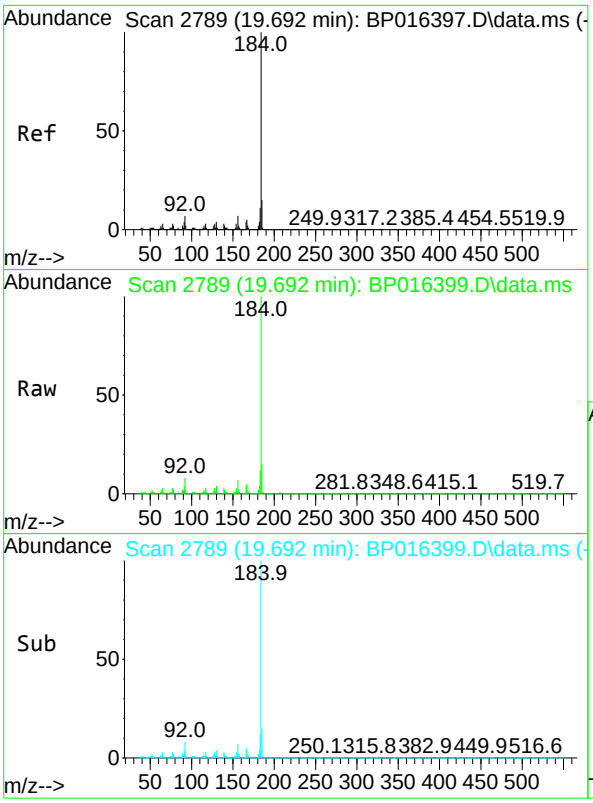


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.598 min Scan# 3113
Delta R.T. 0.006 min
Lab File: BP016399.D
Acq: 27 Jul 2023 14:29

Tgt Ion:240 Resp: 2476488

Ion	Ratio	Lower	Upper
240	100		
120	9.9	7.9	11.9
236	26.0	21.1	31.7

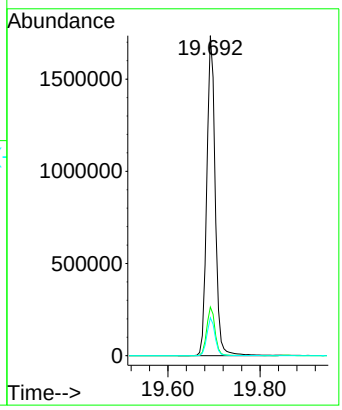




#77
Benzidine
Concen: 51.791 ng
RT: 19.692 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP016399.D
Acq: 27 Jul 2023 14:29

Tgt Ion:184 Resp: 222372

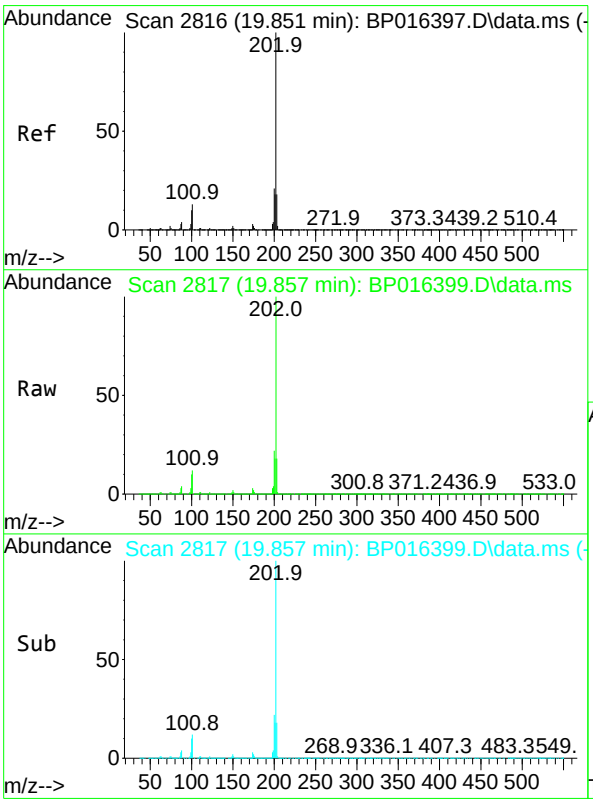
Ion	Ratio	Lower	Upper
184	100		
185	15.2	12.0	18.0
183	11.9	9.2	13.8



Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

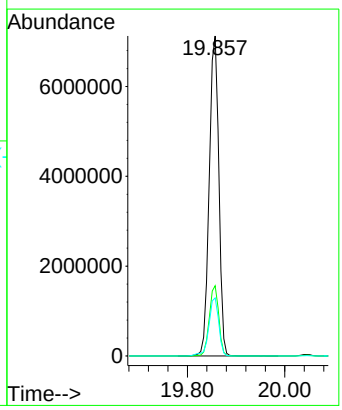
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

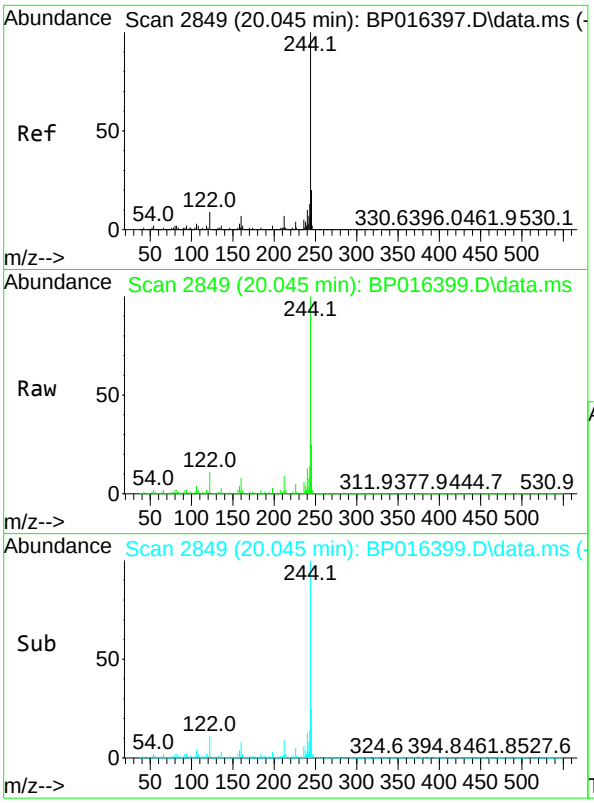


#78
Pyrene
Concen: 58.368 ng
RT: 19.857 min Scan# 2817
Delta R.T. 0.006 min
Lab File: BP016399.D
Acq: 27 Jul 2023 14:29

Tgt Ion:202 Resp: 9689847

Ion	Ratio	Lower	Upper
202	100		
200	22.0	17.1	25.7
203	18.1	14.4	21.6

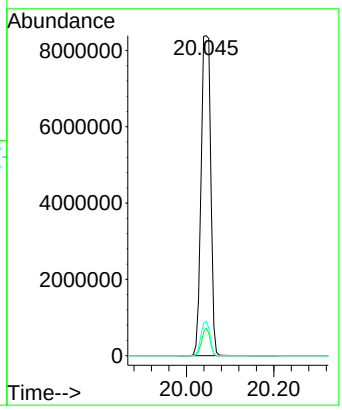




#79
Terphenyl-d14
Concen: 109.707 ng
RT: 20.045 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP016399.D
Acq: 27 Jul 2023 14:29

Tgt Ion:244 Resp:1286151

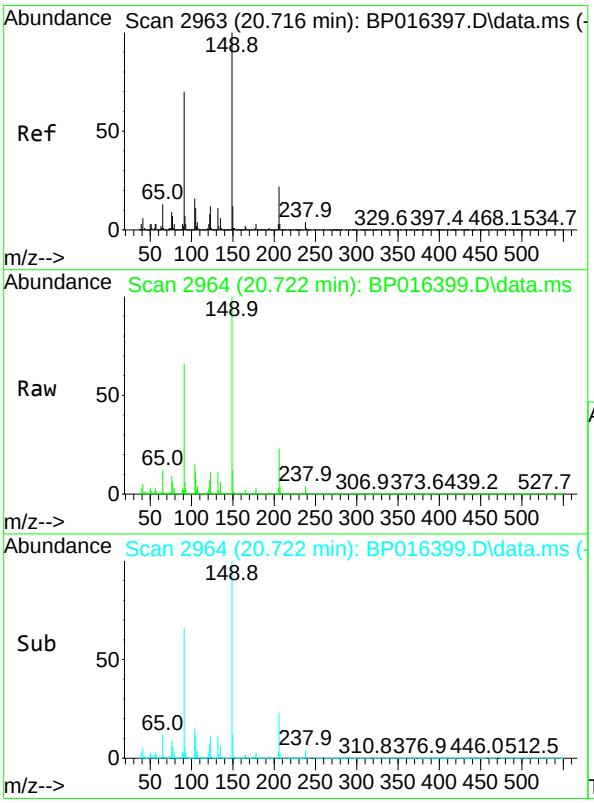
Ion	Ratio	Lower	Upper
244	100		
212	8.6	5.6	8.4
122	10.8	7.4	11.2



Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

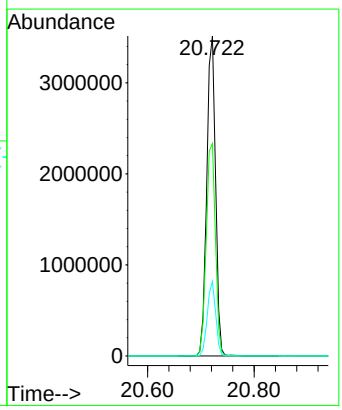
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

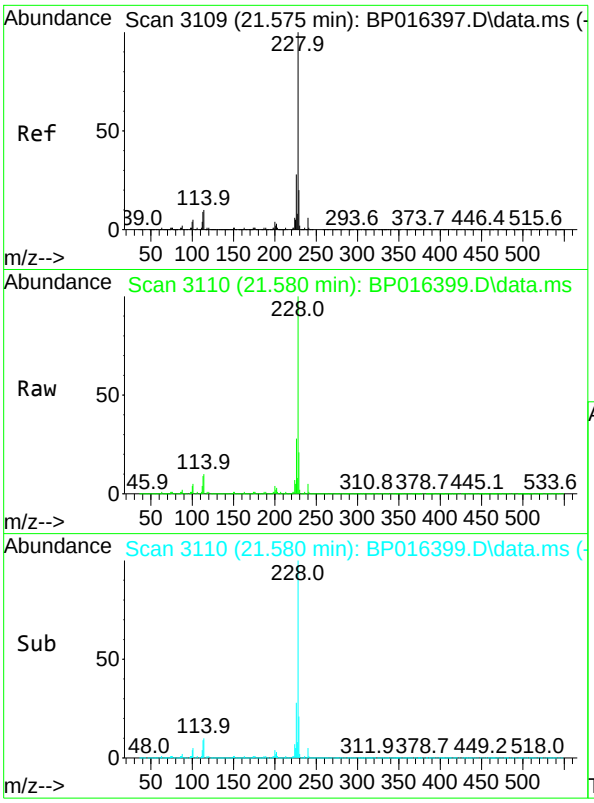


#80
Butylbenzylphthalate
Concen: 61.888 ng
RT: 20.722 min Scan# 2964
Delta R.T. 0.006 min
Lab File: BP016399.D
Acq: 27 Jul 2023 14:29

Tgt Ion:149 Resp: 4036301

Ion	Ratio	Lower	Upper
149	100		
91	66.4	56.1	84.1
206	23.3	17.8	26.6

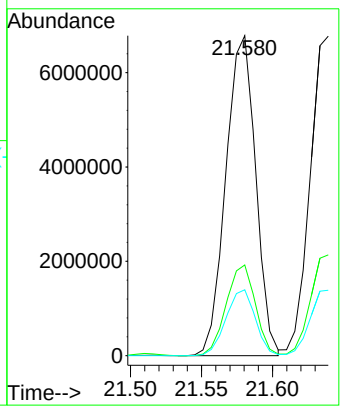




#81
Benzo(a)anthracene
Concen: 59.642 ng
RT: 21.580 min Scan# 3
Delta R.T. 0.006 min
Lab File: BP016399.D
Acq: 27 Jul 2023 14:29

Tgt Ion:228 Resp: 991019

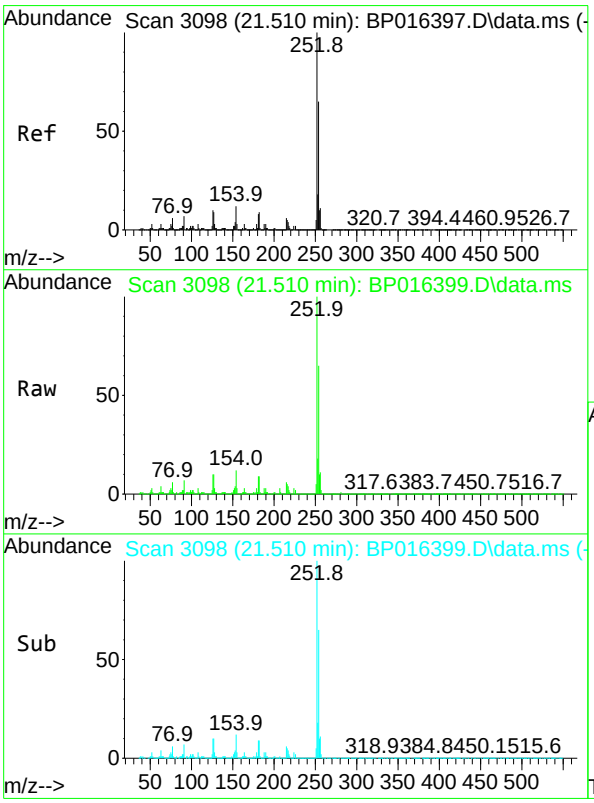
Ion	Ratio	Lower	Upper
228	100		
226	28.3	22.4	33.6
229	20.6	16.2	24.4



Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

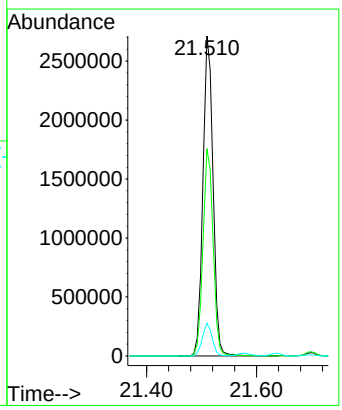
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

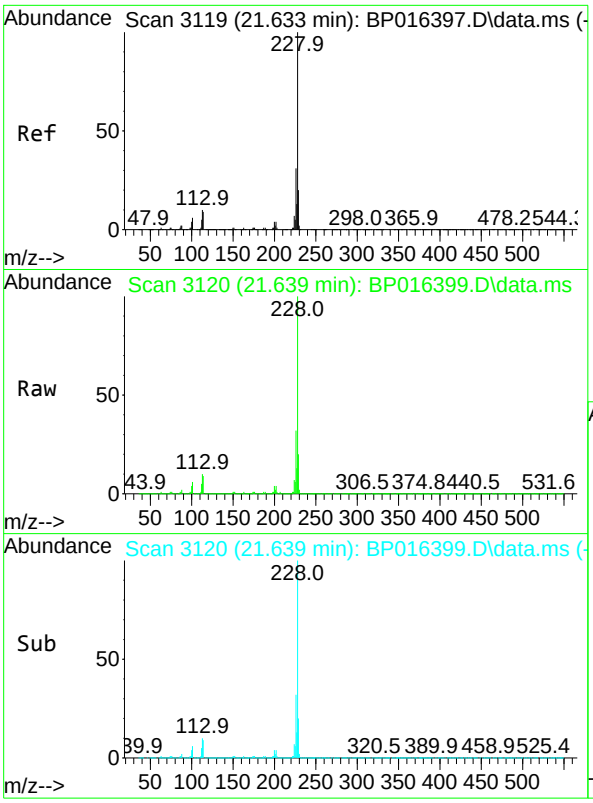


#82
3,3'-Dichlorobenzidine
Concen: 63.377 ng
RT: 21.510 min Scan# 3098
Delta R.T. -0.000 min
Lab File: BP016399.D
Acq: 27 Jul 2023 14:29

Tgt Ion:252 Resp: 3456892

Ion	Ratio	Lower	Upper
252	100		
254	64.8	52.2	78.2
126	10.2	7.8	11.6

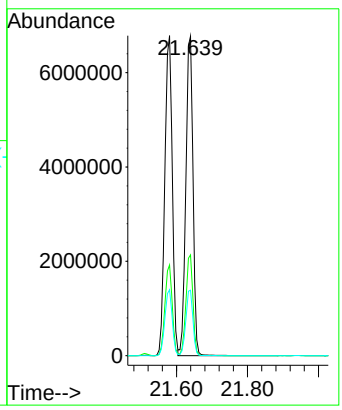




#83
Chrysene
Concen: 59.216 ng
RT: 21.639 min Scan# 3
Delta R.T. 0.006 min
Lab File: BP016399.D
Acq: 27 Jul 2023 14:29

Tgt Ion:228 Resp: 939579

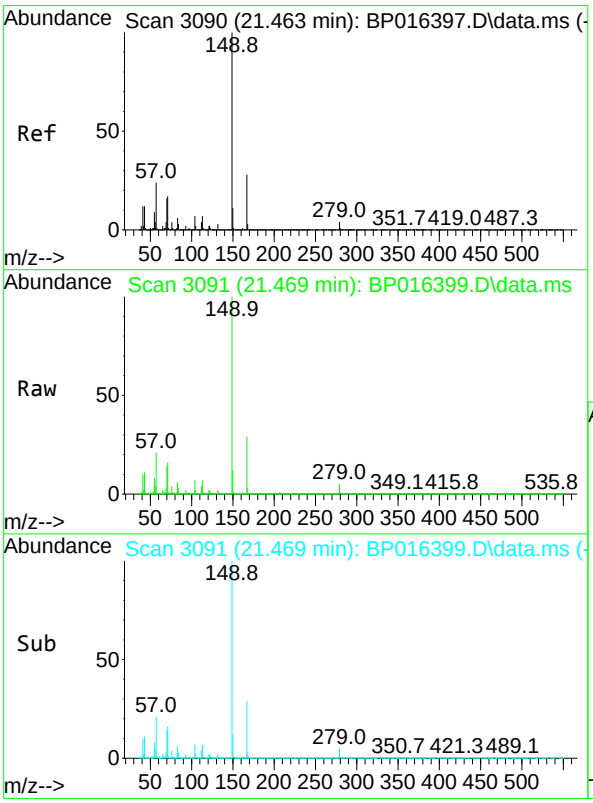
Ion	Ratio	Lower	Upper
228	100		
226	31.5	24.6	37.0
229	20.5	16.0	24.0



Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

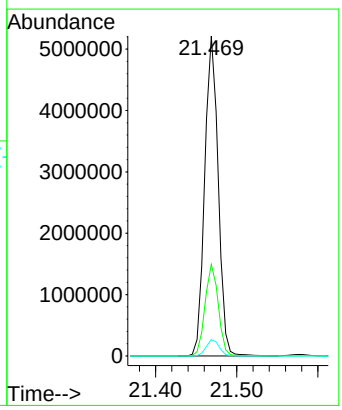
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

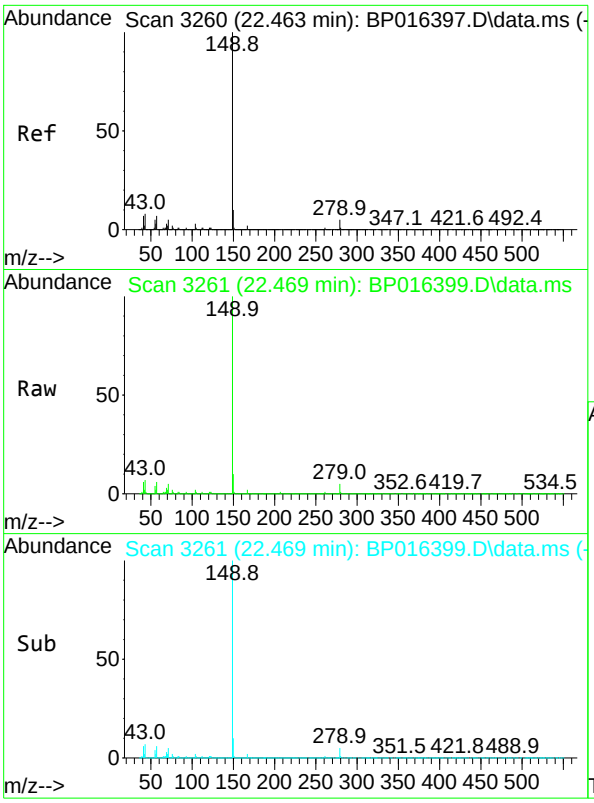


#84
Bis(2-ethylhexyl)phthalate
Concen: 61.180 ng
RT: 21.469 min Scan# 3091
Delta R.T. 0.006 min
Lab File: BP016399.D
Acq: 27 Jul 2023 14:29

Tgt Ion:149 Resp: 5990540

Ion	Ratio	Lower	Upper
149	100		
167	28.6	22.5	33.7
279	5.1	3.6	5.4

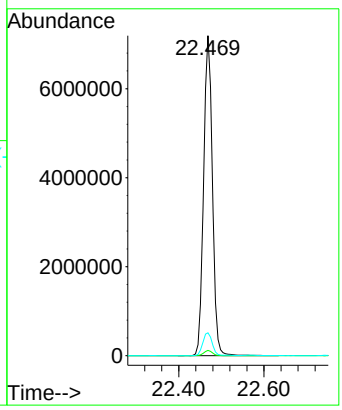




#85
Di-n-octyl phthalate
Concen: 62.559 ng
RT: 22.469 min Scan# 3
Delta R.T. 0.006 min
Lab File: BP016399.D
Acq: 27 Jul 2023 14:29

Tgt Ion:149 Resp:1030225

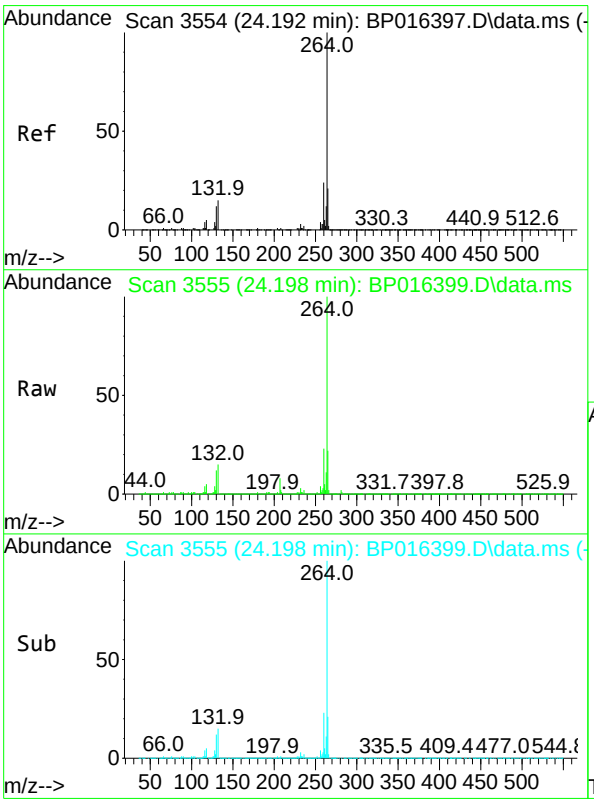
Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	7.8	6.6	9.8



Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

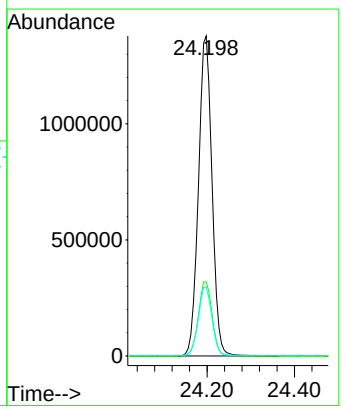
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

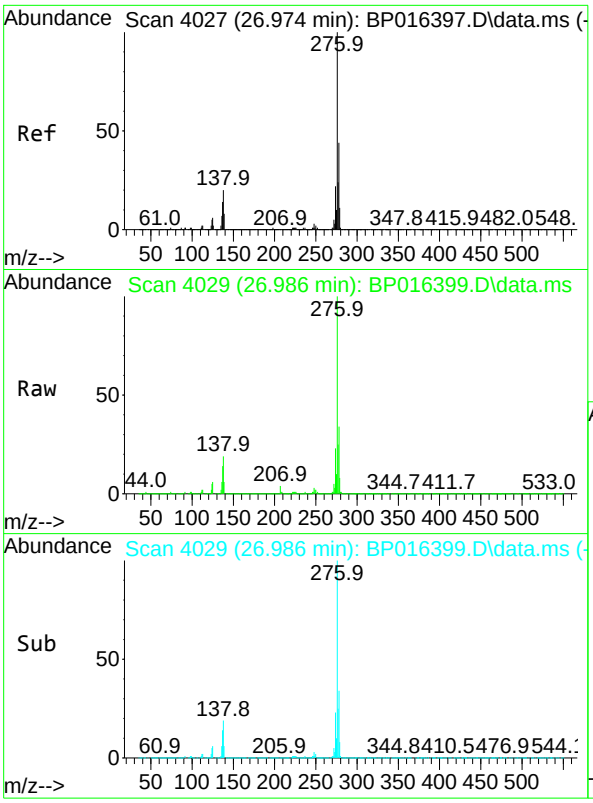


#86
Perylene-d12
Concen: 20.000 ng
RT: 24.198 min Scan# 3555
Delta R.T. 0.006 min
Lab File: BP016399.D
Acq: 27 Jul 2023 14:29

Tgt Ion:264 Resp: 2979370

Ion	Ratio	Lower	Upper
264	100		
260	23.1	19.3	28.9
265	21.5	17.4	26.0

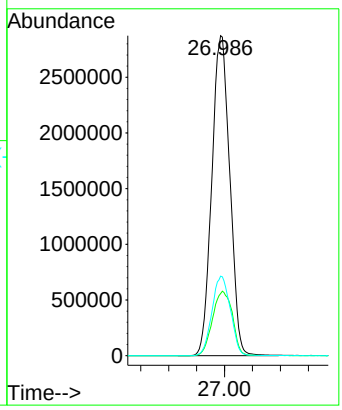




#87
Indeno(1,2,3-cd)pyrene
Concen: 63.951 ng
RT: 26.986 min Scan# 4
Delta R.T. 0.012 min
Lab File: BP016399.D
Acq: 27 Jul 2023 14:29

Tgt Ion:276 Resp:1284542

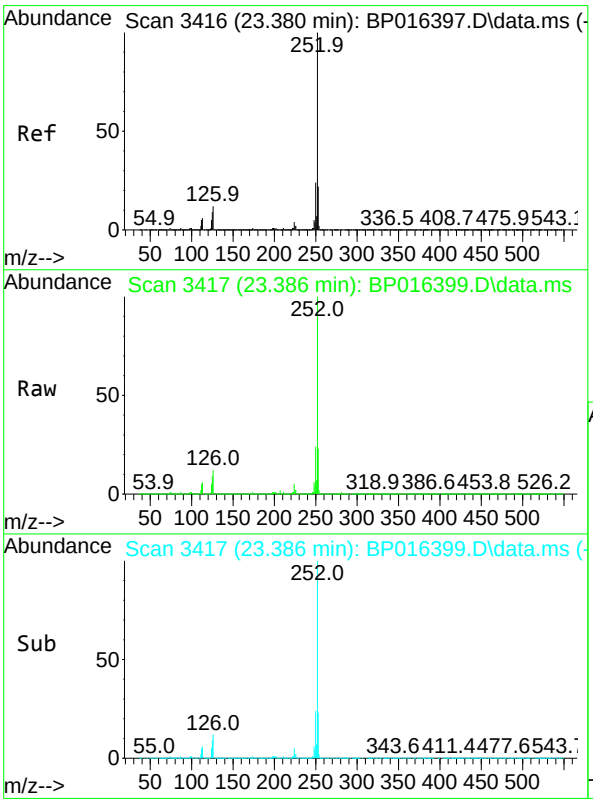
Ion	Ratio	Lower	Upper
276	100		
138	22.3	18.4	27.6
277	25.5	20.4	30.6



Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

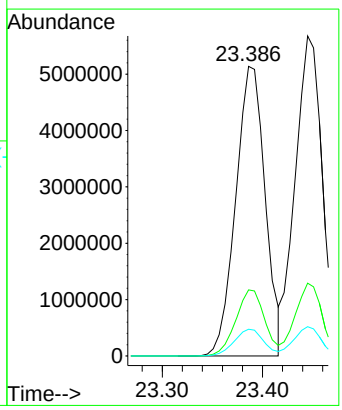
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

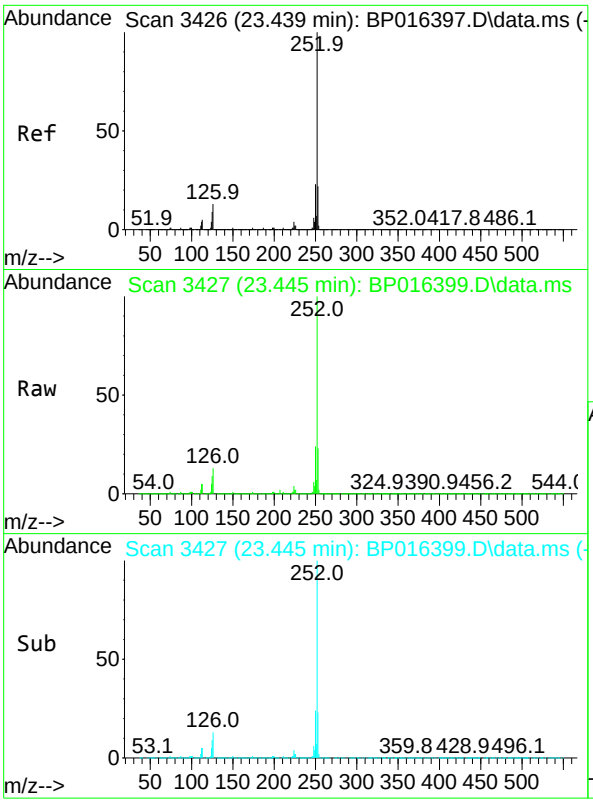


#88
Benzo(b)fluoranthene
Concen: 60.757 ng
RT: 23.386 min Scan# 3417
Delta R.T. 0.006 min
Lab File: BP016399.D
Acq: 27 Jul 2023 14:29

Tgt Ion:252 Resp:10492032

Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.8	26.8
125	9.2	7.4	11.2

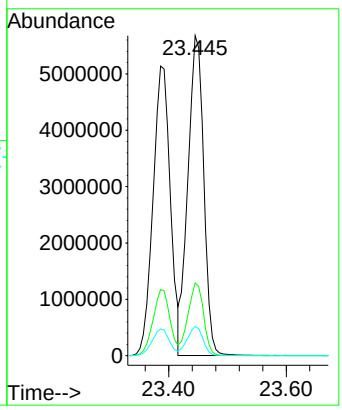




#89
Benzo(k)fluoranthene
Concen: 60.439 ng
RT: 23.445 min Scan# 3
Delta R.T. 0.006 min
Lab File: BP016399.D
Acq: 27 Jul 2023 14:29

Tgt Ion:252 Resp:1061566

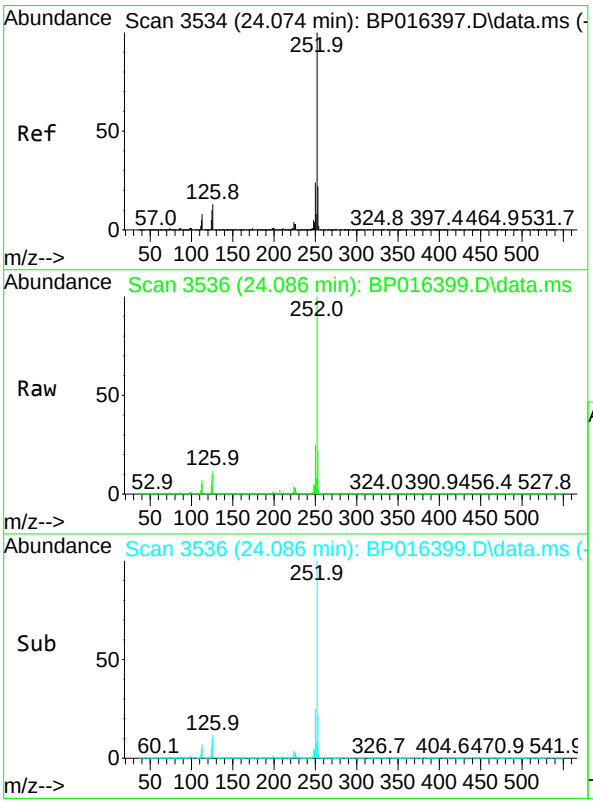
Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.8	26.8
125	9.2	7.1	10.7



Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

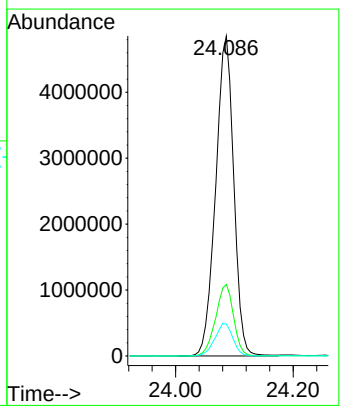
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

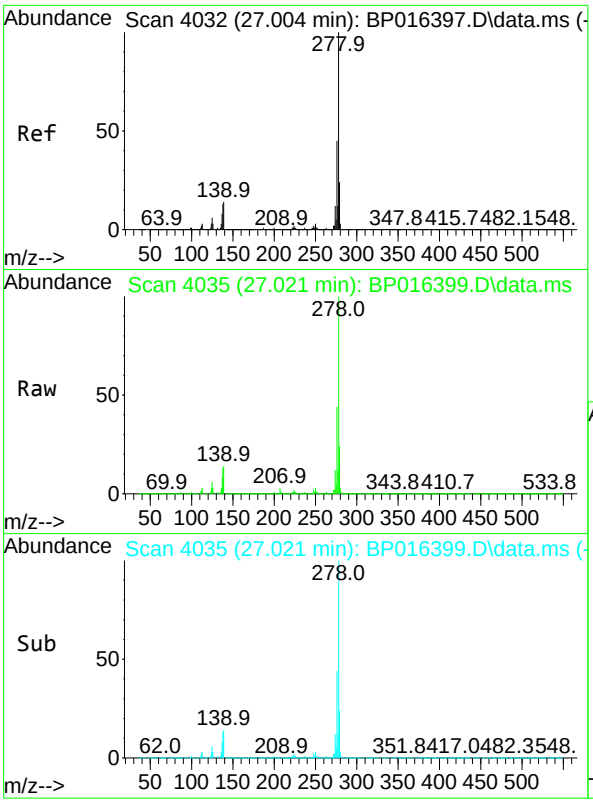


#90
Benzo(a)pyrene
Concen: 61.722 ng
RT: 24.086 min Scan# 3536
Delta R.T. 0.012 min
Lab File: BP016399.D
Acq: 27 Jul 2023 14:29

Tgt Ion:252 Resp:10325038

Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.8	26.6
125	10.0	8.3	12.5

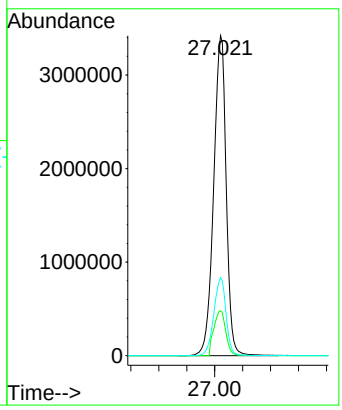




#91
Dibenzo(a,h)anthracene
Concen: 63.637 ng
RT: 27.021 min Scan# 4
Delta R.T. 0.018 min
Lab File: BP016399.D
Acq: 27 Jul 2023 14:29

Tgt Ion:278 Resp:1065981

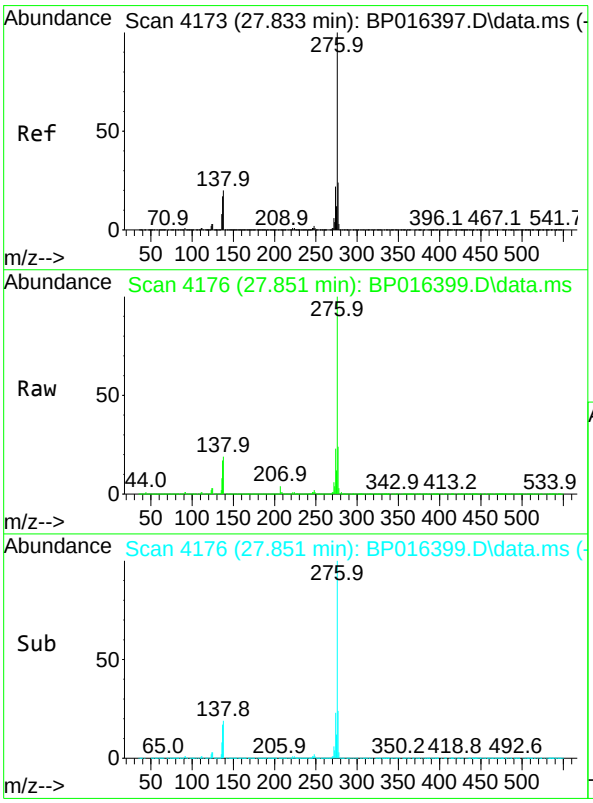
Ion	Ratio	Lower	Upper
278	100		
139	14.1	11.6	17.4
279	24.4	19.0	28.6



Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

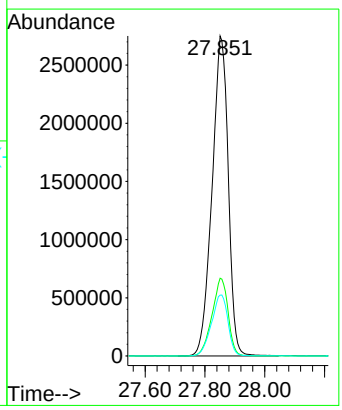
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023



#92
Benzo(g,h,i)perylene
Concen: 63.844 ng
RT: 27.851 min Scan# 4176
Delta R.T. 0.018 min
Lab File: BP016399.D
Acq: 27 Jul 2023 14:29

Tgt Ion:276 Resp:10305921

Ion	Ratio	Lower	Upper
276	100		
277	24.3	19.2	28.8
138	19.0	16.1	24.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP072723\
Data File : BP016400.D
Acq On : 27 Jul 2023 15:03
Operator : MA/JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 27 17:36:18 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP072723.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jul 27 17:32:49 2023
Response via : Initial Calibration

Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	8.093	152	469188	20.000	ng		0.00
21) Naphthalene-d8	10.928	136	1764609	20.000	ng		0.00
39) Acenaphthene-d10	14.739	164	1096637	20.000	ng		0.00
64) Phenanthrene-d10	17.504	188	2545819	20.000	ng		0.00
76) Chrysene-d12	21.598	240	2531418	20.000	ng		0.00
86) Perylene-d12	24.198	264	3094883	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.605	112	4201997	146.108	ng		0.00
7) Phenol-d6	7.234	99	5622720	142.636	ng		0.00
23) Nitrobenzene-d5	9.293	82	4816627	152.797	ng		0.00
42) 2,4,6-Tribromophenol	16.233	330	2832892	175.595	ng		0.00
45) 2-Fluorobiphenyl	13.369	172	10922478	142.793	ng		0.00
79) Terphenyl-d14	20.039	244	14271540	119.093	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.458	88	806087	71.865	ng		100
3) Pyridine	3.875	79	2446900m	74.142	ng		
4) n-Nitrosodimethylamine	3.805	42	897598	71.004	ng		99
6) Aniline	7.428	93	3508498	72.057	ng		100
8) 2-Chlorophenol	7.646	128	2192999	72.726	ng		99
9) Benzaldehyde	7.246	77	1089949	82.649	ng		99
10) Phenol	7.263	94	2730888	71.337	ng		98
11) bis(2-Chloroethyl)ether	7.528	93	2178843	70.018	ng		98
12) 1,3-Dichlorobenzene	7.975	146	2341170	72.322	ng		98
13) 1,4-Dichlorobenzene	8.134	146	2367393	72.095	ng		99
14) 1,2-Dichlorobenzene	8.446	146	2244431	70.989	ng		99
15) Benzyl Alcohol	8.346	79	1952544	72.501	ng		99
16) 2,2'-oxybis(1-Chloropr...	8.628	45	2364572	67.002	ng		100
17) 2-Methylphenol	8.528	107	1985719	71.975	ng		99
18) Hexachloroethane	9.175	117	838950	71.627	ng		97
19) n-Nitroso-di-n-propyla...	8.922	70	1669250	67.593	ng		100
20) 3+4-Methylphenols	8.863	107	2736525	73.033	ng		98
22) Acetophenone	8.946	105	3315876	74.425	ng	#	99
24) Nitrobenzene	9.340	77	2459122	75.952	ng		99
25) Isophorone	9.857	82	4834619	75.965	ng		99
26) 2-Nitrophenol	10.040	139	1150901	80.229	ng		100
27) 2,4-Dimethylphenol	10.075	122	2207668	77.537	ng		99
28) bis(2-Chloroethoxy)met...	10.340	93	2906800	74.565	ng		99
29) 2,4-Dichlorophenol	10.557	162	2192754	82.292	ng		99
30) 1,2,4-Trichlorobenzene	10.775	180	2284465	79.154	ng		100
31) Naphthalene	10.981	128	6933804	75.121	ng		99
32) Benzoic acid	10.240	122	1615383	81.436	ng		98
33) 4-Chloroaniline	11.104	127	3252800	78.126	ng		99
34) Hexachlorobutadiene	11.216	225	1389663	81.328	ng		100
35) Caprolactam	11.940	113	804832m	82.643	ng		
36) 4-Chloro-3-methylphenol	12.193	107	2343936	79.136	ng		99
37) 2-Methylnaphthalene	12.575	142	5105090	76.134	ng		99
38) 1-Methylnaphthalene	12.792	142	4753224	75.610	ng		100
40) 1,2,4,5-Tetrachloroben...	12.922	216	2677323	80.338	ng		100
41) Hexachlorocyclopentadiene	12.875	237	1476860	88.236	ng		100
43) 2,4,6-Trichlorophenol	13.169	196	1813003	84.787	ng		100

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP072723\
Data File : BP016400.D
Acq On : 27 Jul 2023 15:03
Operator : MA/JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 27 17:36:18 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP072723.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jul 27 17:32:49 2023
Response via : Initial Calibration

Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	13.234	196	2171857	83.718	ng		99
46) 1,1'-Biphenyl	13.581	154	6262528	74.915	ng		99
47) 2-Chloronaphthalene	13.628	162	4798108	76.080	ng		99
48) 2-Nitroaniline	13.845	65	1479302	83.213	ng		95
49) Acenaphthylene	14.469	152	7939234	75.871	ng		100
50) Dimethylphthalate	14.204	163	6533473	76.453	ng		100
51) 2,6-Dinitrotoluene	14.339	165	1467026	83.797	ng		97
52) Acenaphthene	14.804	154	4736297	76.116	ng		100
53) 3-Nitroaniline	14.675	138	1663530	84.048	ng		100
54) 2,4-Dinitrophenol	14.869	184	678689	82.580	ng		96
55) Dibenzofuran	15.139	168	7693900	75.391	ng		99
56) 4-Nitrophenol	14.951	139	1350420	87.161	ng		98
57) 2,4-Dinitrotoluene	15.116	165	2028113	88.890	ng		95
58) Fluorene	15.792	166	5850262	72.968	ng		100
59) 2,3,4,6-Tetrachlorophenol	15.345	232	1851651	86.766	ng		98
60) Diethylphthalate	15.557	149	6507853	76.630	ng		100
61) 4-Chlorophenyl-phenyle...	15.781	204	3040484	75.150	ng		98
62) 4-Nitroaniline	15.845	138	1665077	84.770	ng		99
63) Azobenzene	16.075	77	5858705	73.061	ng		99
65) 4,6-Dinitro-2-methylph...	15.869	198	1022013	80.781	ng		94
66) n-Nitrosodiphenylamine	16.004	169	5536969	73.799	ng		100
67) 4-Bromophenyl-phenylether	16.680	248	2197142	81.505	ng		98
68) Hexachlorobenzene	16.763	284	2441345	81.211	ng		97
69) Atrazine	16.957	200	1673554	75.004	ng		99
70) Pentachlorophenol	17.122	266	1804942	86.762	ng		99
71) Phenanthrene	17.545	178	9970011	73.753	ng		99
72) Anthracene	17.639	178	10117451	74.431	ng		99
73) Carbazole	17.916	167	9486617	74.439	ng		99
74) Di-n-butylphthalate	18.433	149	10824866	73.419	ng		97
75) Fluoranthene	19.498	202	12090041	76.304	ng		97
77) Benzidine	19.692	184	3274541	74.610	ng		99
78) Pyrene	19.857	202	12282191	72.378	ng		95
80) Butylbenzylphthalate	20.721	149	5305297	79.581	ng		95
81) Benzo(a)anthracene	21.580	228	12725684	74.925	ng		98
82) 3,3'-Dichlorobenzidine	21.510	252	4574114	82.040	ng		99
83) Chrysene	21.639	228	11904860	73.401	ng		97
84) Bis(2-ethylhexyl)phtha...	21.468	149	7680653	76.738	ng	#	97
85) Di-n-octyl phthalate	22.468	149	13277630	78.877	ng		98
87) Indeno(1,2,3-cd)pyrene	26.986	276	16839476	80.706	ng		99
88) Benzo(b)fluoranthene	23.392	252	13712779	76.444	ng		99
89) Benzo(k)fluoranthene	23.451	252	13875822	76.052	ng		99
90) Benzo(a)pyrene	24.086	252	13627382	78.423	ng		99
91) Dibenzo(a,h)anthracene	27.027	278	13883452	79.788	ng		99
92) Benzo(g,h,i)perylene	27.862	276	13551755	80.818	ng		99

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

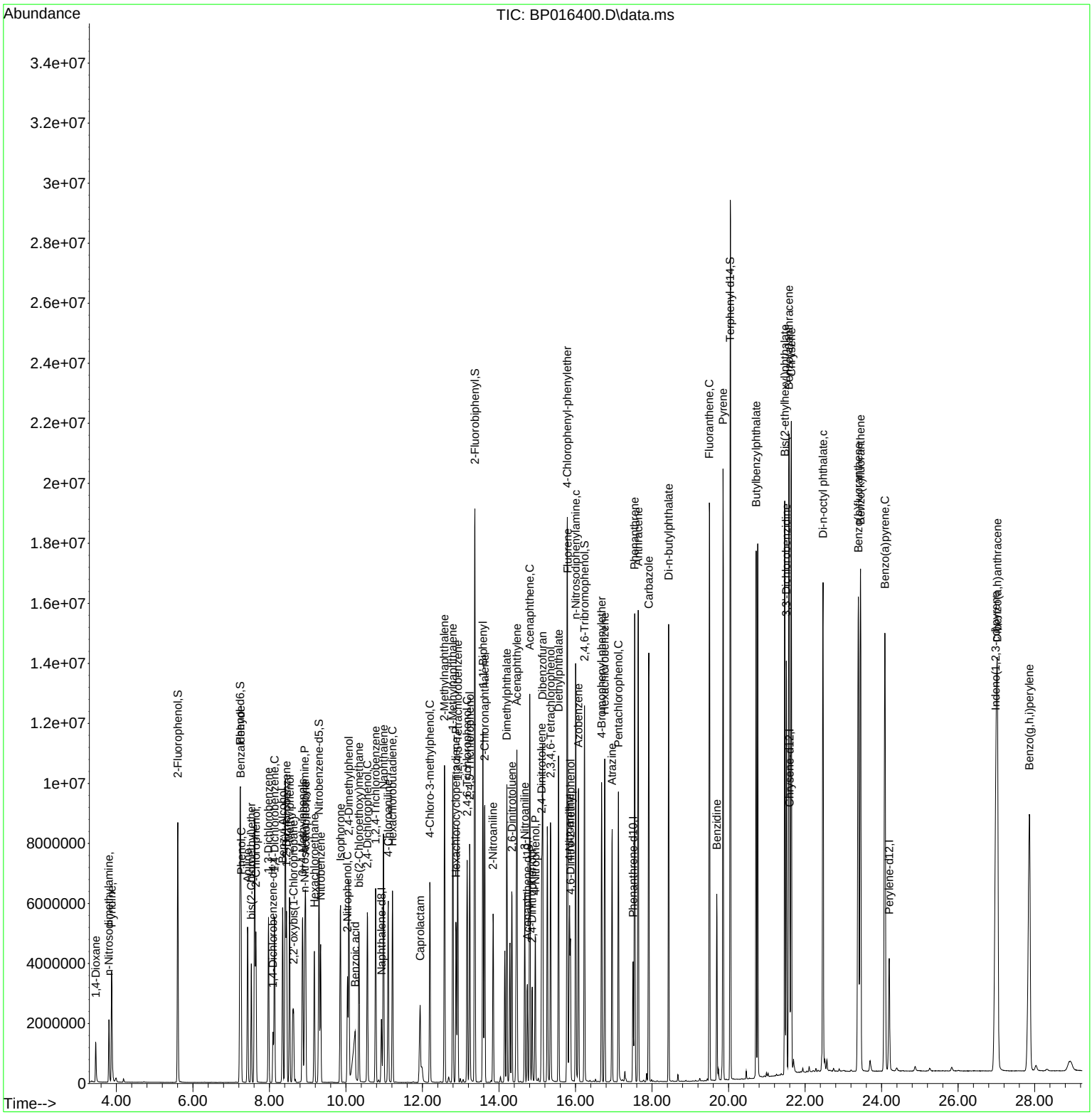
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP072723\
Data File : BP016400.D
Acq On : 27 Jul 2023 15:03
Operator : MA/JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

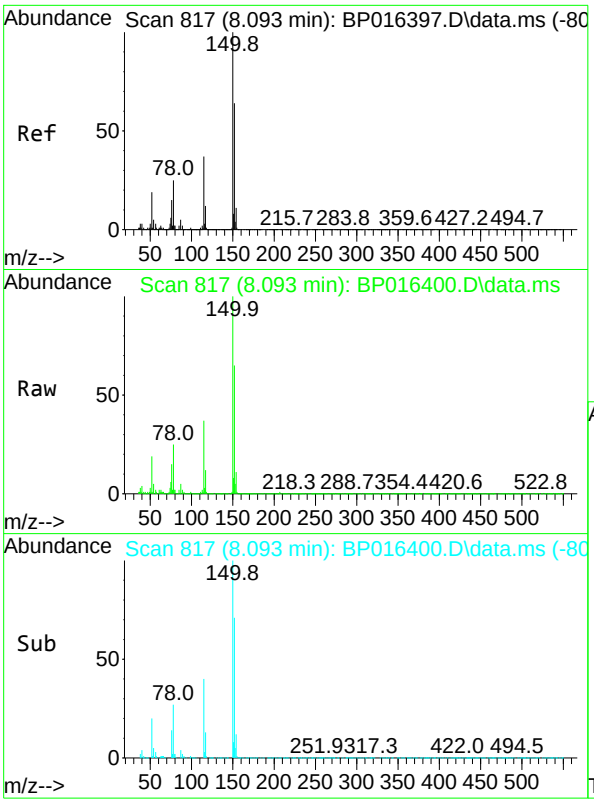
Quant Time: Jul 27 17:36:18 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP072723.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jul 27 17:32:49 2023
Response via : Initial Calibration

Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

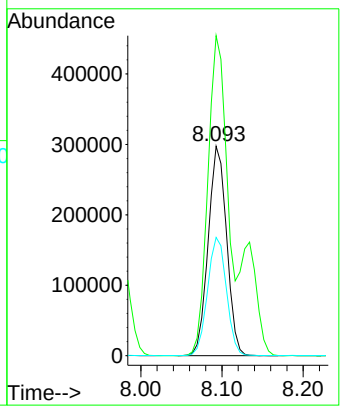




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.093 min Scan# 8
Delta R.T. -0.000 min
Lab File: BP016400.D
Acq: 27 Jul 2023 15:03

Tgt Ion:152 Resp: 46918

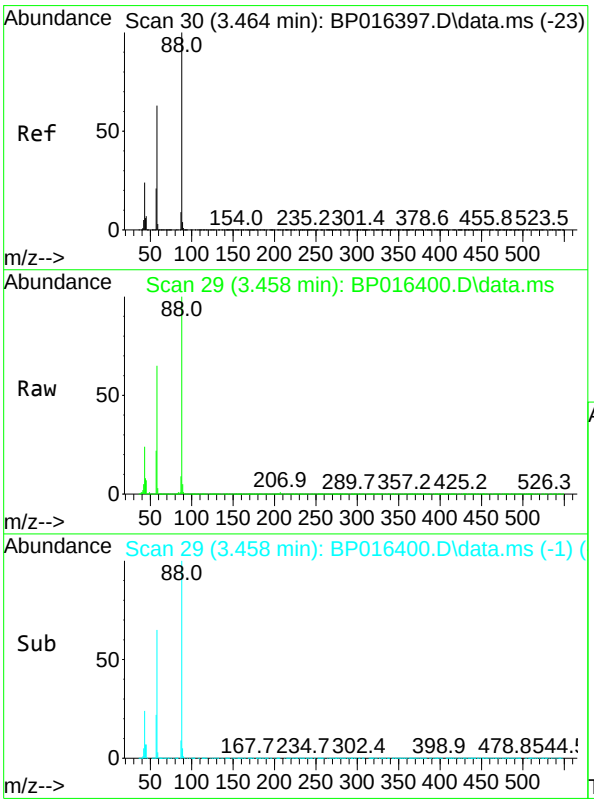
Ion	Ratio	Lower	Upper
152	100		
150	152.8	124.9	187.3
115	56.4	46.8	70.2



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

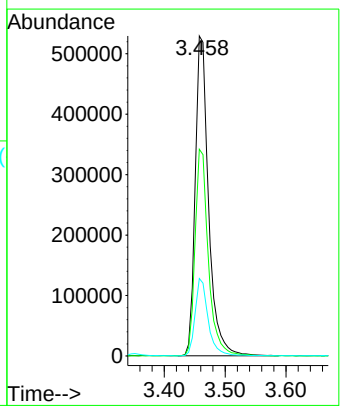
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

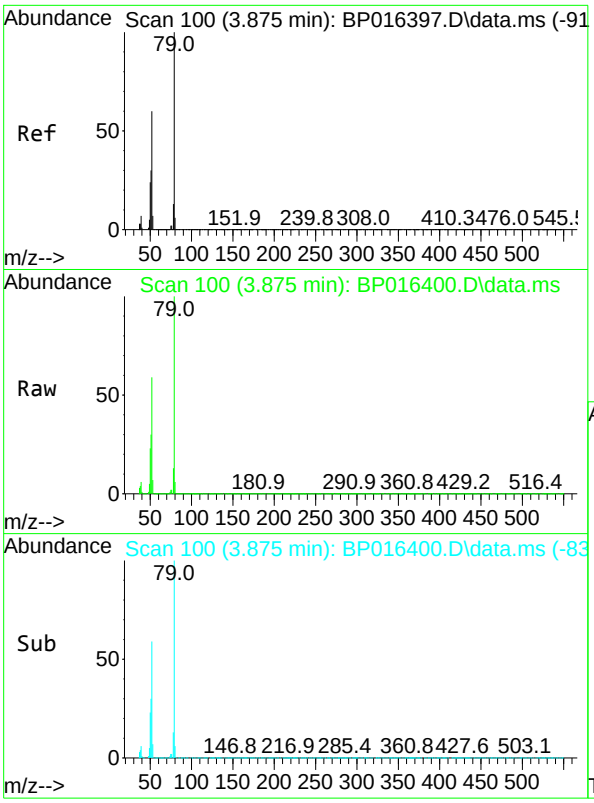


#2
1,4-Dioxane
Concen: 71.865 ng
RT: 3.458 min Scan# 29
Delta R.T. -0.006 min
Lab File: BP016400.D
Acq: 27 Jul 2023 15:03

Tgt Ion: 88 Resp: 806087

Ion	Ratio	Lower	Upper
88	100		
58	64.4	51.7	77.5
43	23.6	19.2	28.8

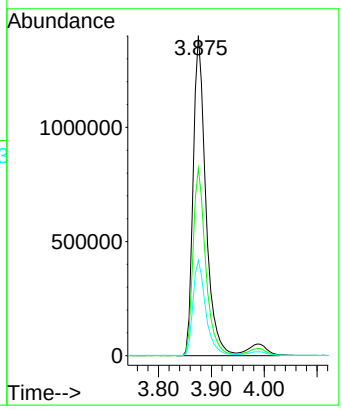




#3
Pyridine
Concen: 74.142 ng m
RT: 3.875 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP016400.D
Acq: 27 Jul 2023 15:03

Tgt Ion: 79 Resp: 244690

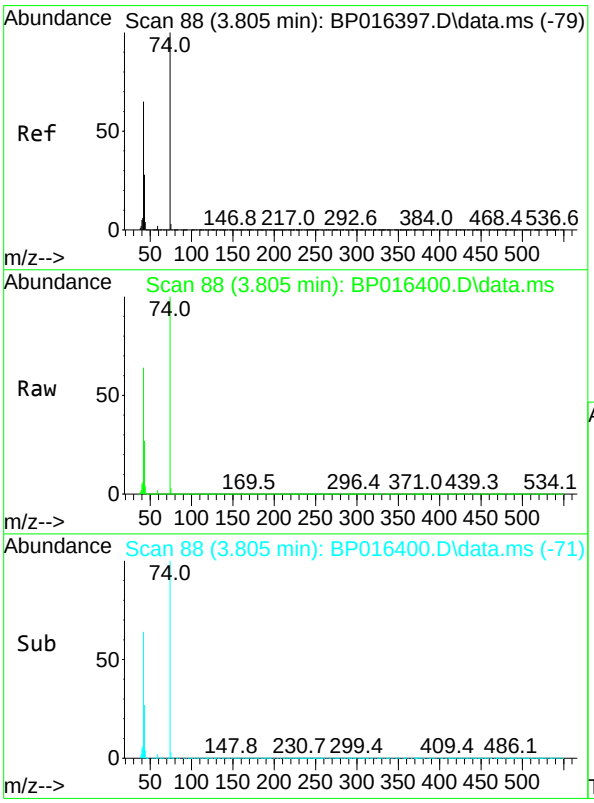
Ion	Ratio	Lower	Upper
79	100		
52	58.6	47.9	71.9
51	29.8	24.4	36.6



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

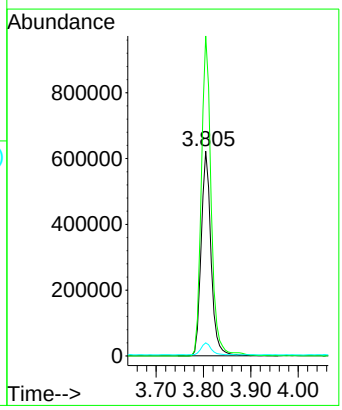
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

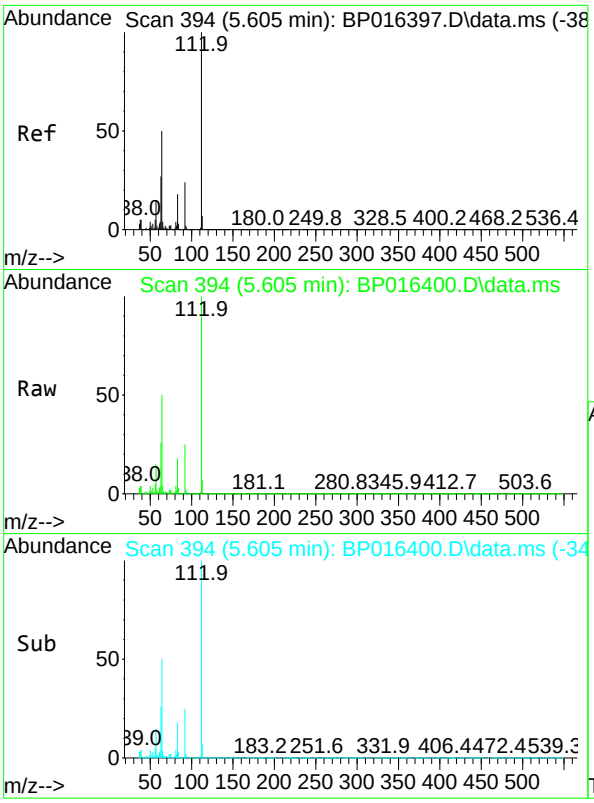


#4
n-Nitrosodimethylamine
Concen: 71.004 ng
RT: 3.805 min Scan# 88
Delta R.T. -0.000 min
Lab File: BP016400.D
Acq: 27 Jul 2023 15:03

Tgt Ion: 42 Resp: 897598

Ion	Ratio	Lower	Upper
42	100		
74	156.3	123.8	185.8
44	6.4	5.5	8.3





#5
2-Fluorophenol
Concen: 146.108 ng
RT: 5.605 min Scan# 3
Delta R.T. -0.000 min
Lab File: BP016400.D
Acq: 27 Jul 2023 15:03

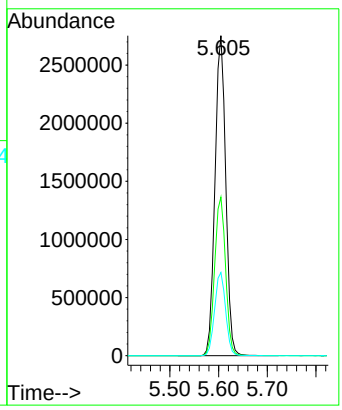
Tgt Ion:112 Resp: 420199

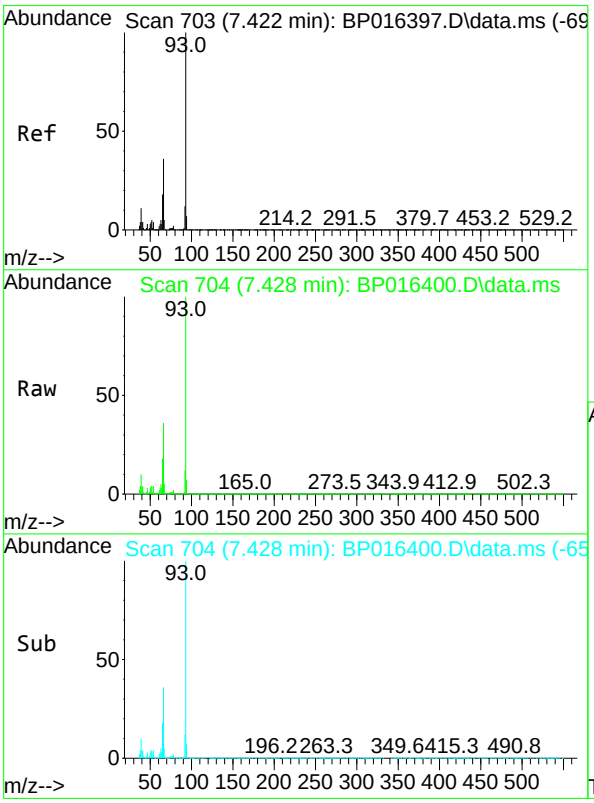
Ion	Ratio	Lower	Upper
112	100		
64	49.6	40.0	60.0
63	26.0	21.2	31.8

Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

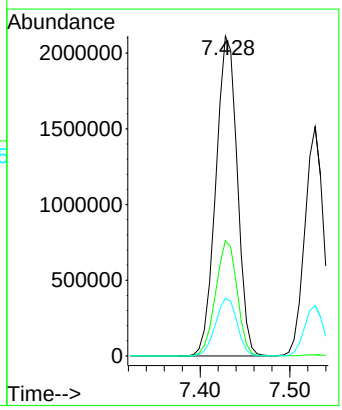


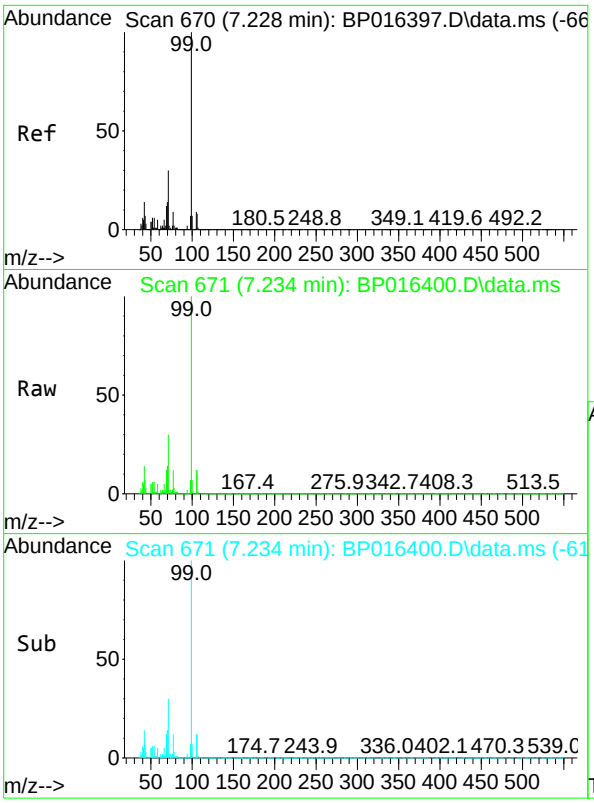


#6
Aniline
Concen: 72.057 ng
RT: 7.428 min Scan# 704
Delta R.T. 0.006 min
Lab File: BP016400.D
Acq: 27 Jul 2023 15:03

Tgt Ion: 93 Resp: 3508498

Ion	Ratio	Lower	Upper
93	100		
66	36.1	28.9	43.3
65	18.0	14.7	22.1

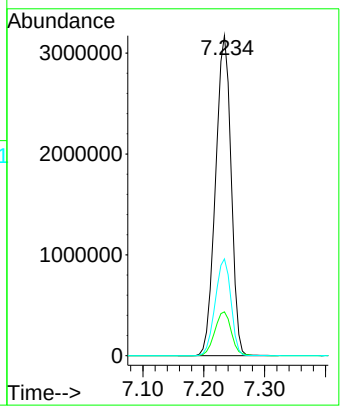




#7
Phenol-d6
Concen: 142.636 ng
RT: 7.234 min Scan# 6
Delta R.T. 0.006 min
Lab File: BP016400.D
Acq: 27 Jul 2023 15:03

Tgt Ion: 99 Resp: 562272

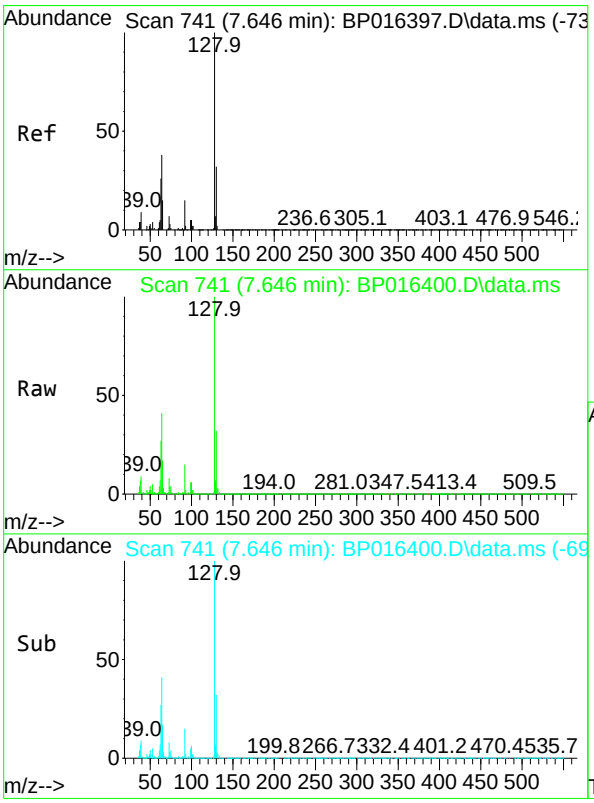
Ion	Ratio	Lower	Upper
99	100		
42	13.7	11.6	17.4
71	30.2	24.3	36.5



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

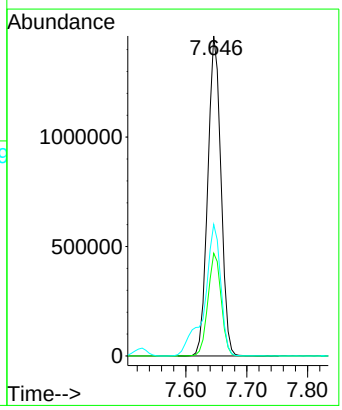
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

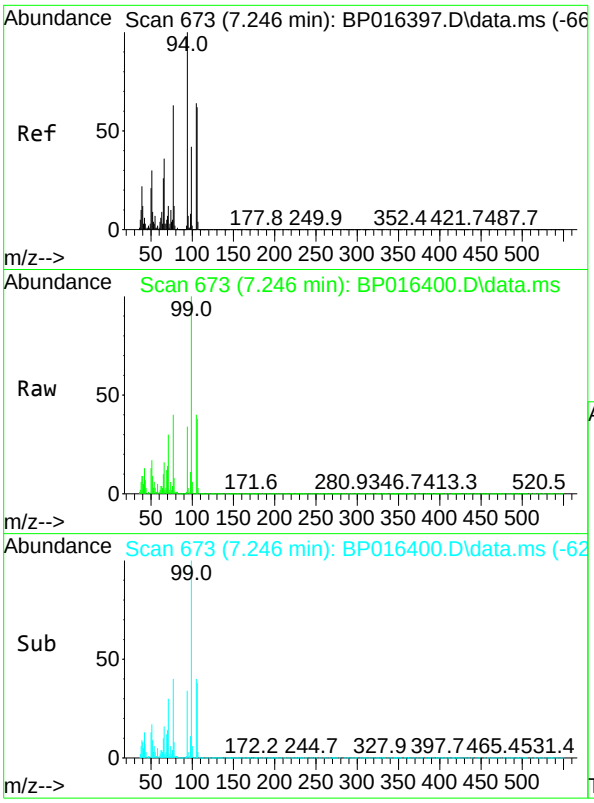


#8
2-Chlorophenol
Concen: 72.726 ng
RT: 7.646 min Scan# 741
Delta R.T. -0.000 min
Lab File: BP016400.D
Acq: 27 Jul 2023 15:03

Tgt Ion:128 Resp: 2192999

Ion	Ratio	Lower	Upper
128	100		
130	32.1	11.6	51.6
64	41.1	20.6	60.6

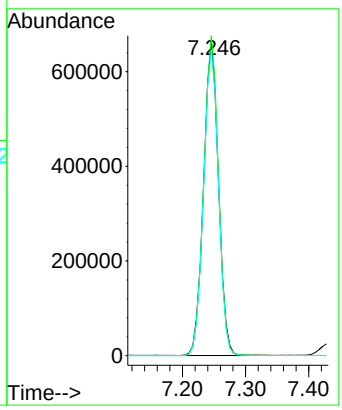




#9
Benzaldehyde
Concen: 82.649 ng
RT: 7.246 min Scan# 6
Delta R.T. -0.000 min
Lab File: BP016400.D
Acq: 27 Jul 2023 15:03

Tgt Ion: 77 Resp: 108994

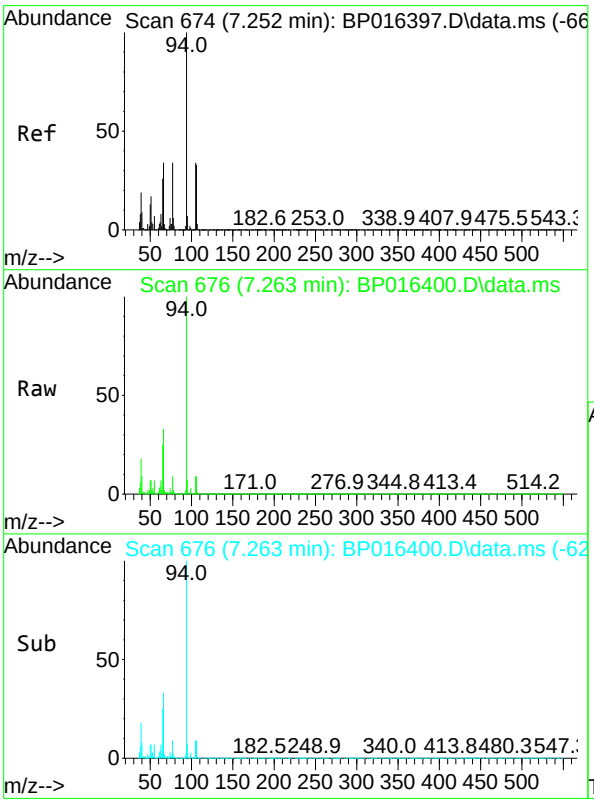
Ion	Ratio	Lower	Upper
77	100		
105	101.7	81.9	121.9
106	97.2	78.8	118.8



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

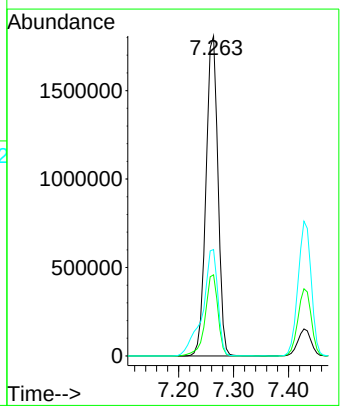
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

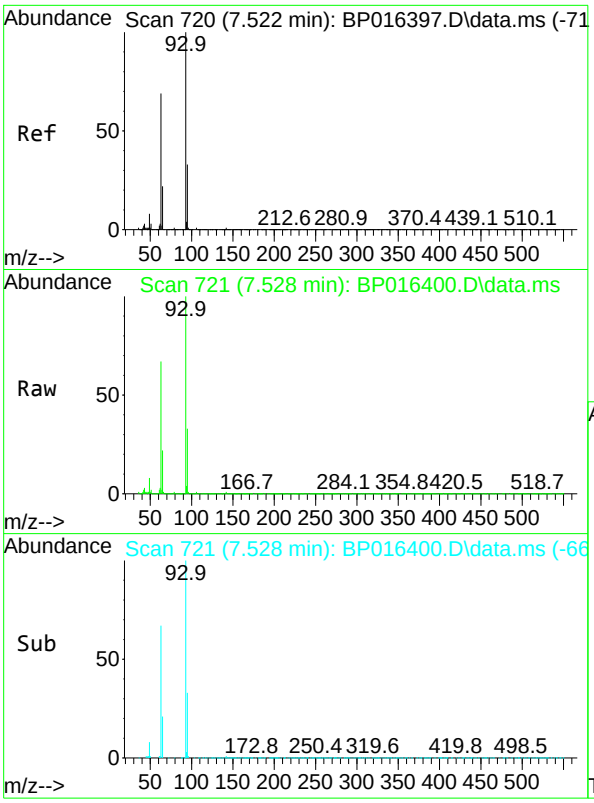


#10
Phenol
Concen: 71.337 ng
RT: 7.263 min Scan# 676
Delta R.T. 0.012 min
Lab File: BP016400.D
Acq: 27 Jul 2023 15:03

Tgt Ion: 94 Resp: 2730888

Ion	Ratio	Lower	Upper
94	100		
65	25.4	5.9	45.9
66	33.2	14.3	54.3

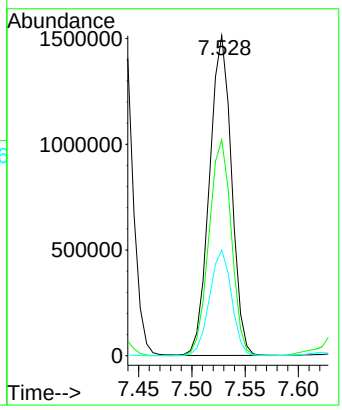




#11
bis(2-Chloroethyl)ether
Concen: 70.018 ng
RT: 7.528 min Scan# 7
Delta R.T. 0.006 min
Lab File: BP016400.D
Acq: 27 Jul 2023 15:03

Tgt Ion: 93 Resp: 217884

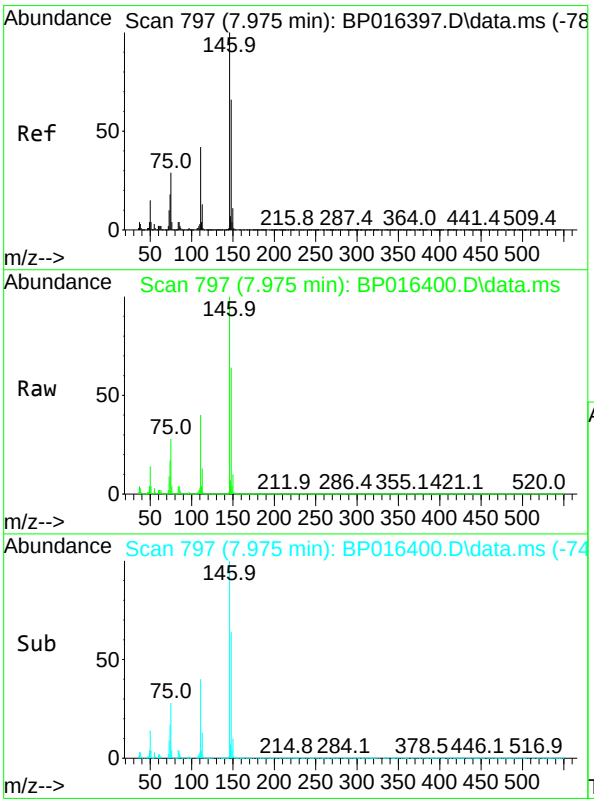
Ion	Ratio	Lower	Upper
93	100		
63	67.4	49.4	89.4
95	33.0	12.9	52.9



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

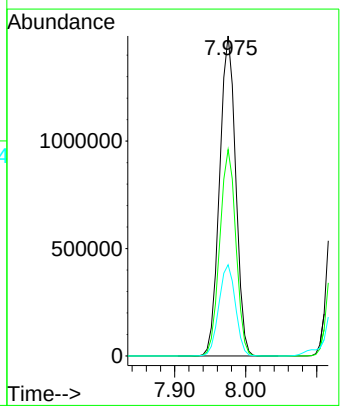
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

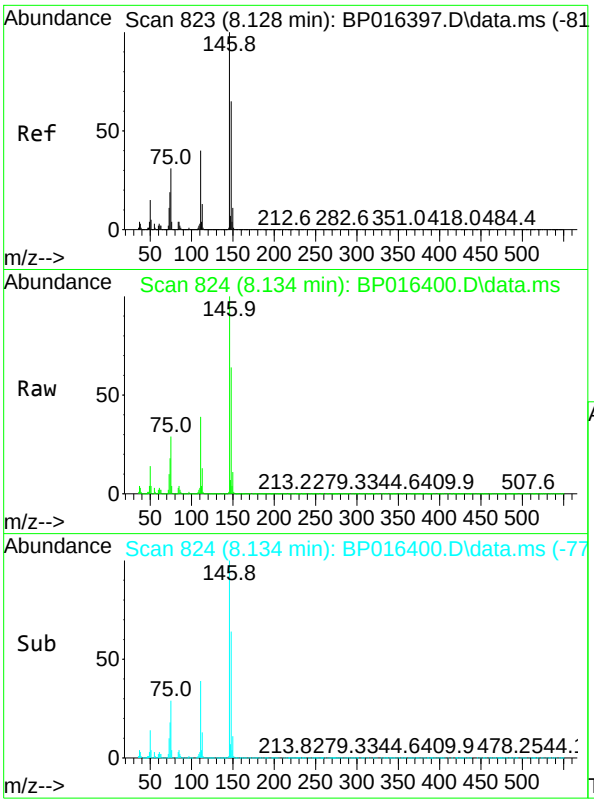


#12
1,3-Dichlorobenzene
Concen: 72.322 ng
RT: 7.975 min Scan# 797
Delta R.T. -0.000 min
Lab File: BP016400.D
Acq: 27 Jul 2023 15:03

Tgt Ion:146 Resp: 2341170

Ion	Ratio	Lower	Upper
146	100		
148	64.5	53.0	79.4
75	28.5	23.4	35.2

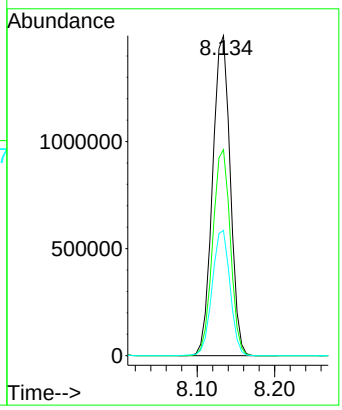




#13
1,4-Dichlorobenzene
Concen: 72.095 ng
RT: 8.134 min Scan# 8
Delta R.T. 0.006 min
Lab File: BP016400.D
Acq: 27 Jul 2023 15:03

Tgt Ion:146 Resp: 236739

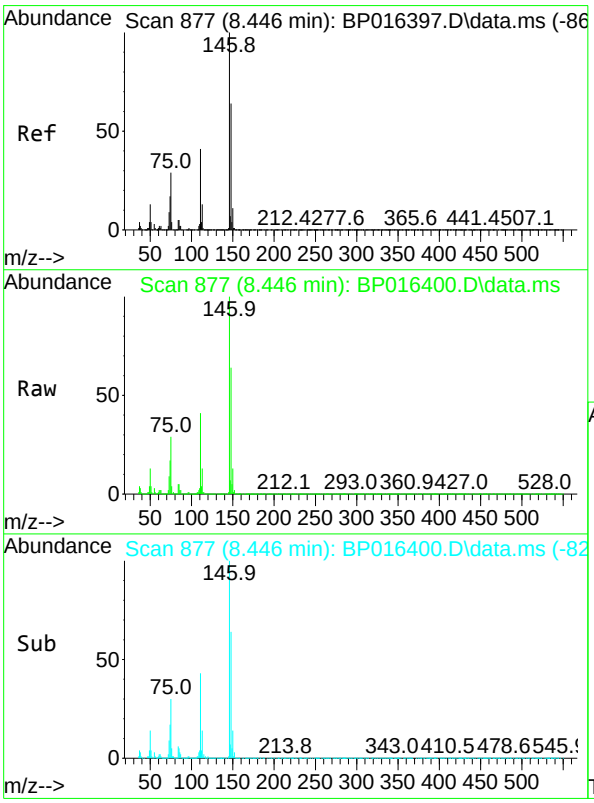
Ion	Ratio	Lower	Upper
146	100		
148	64.4	51.7	77.5
111	39.1	32.0	48.0



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

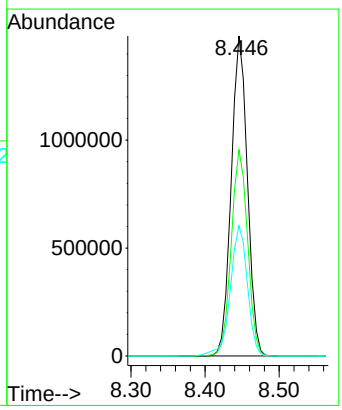
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

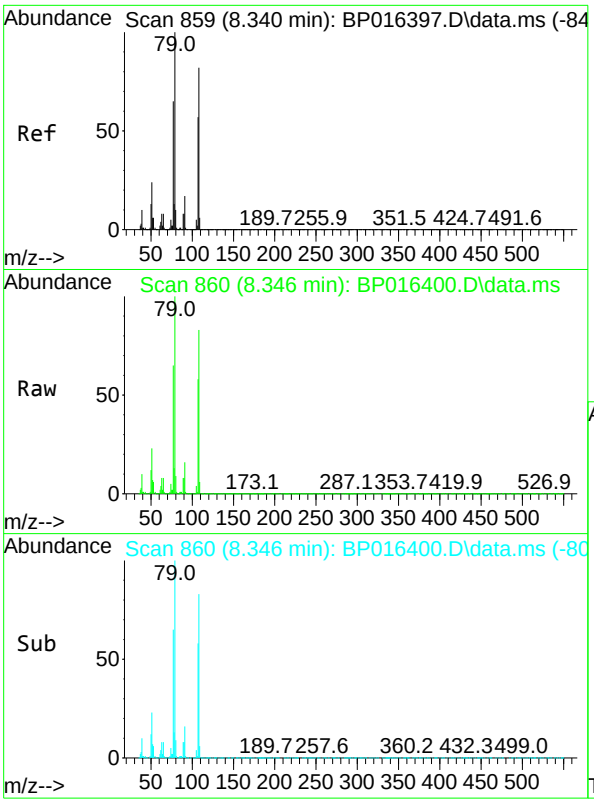


#14
1,2-Dichlorobenzene
Concen: 70.989 ng
RT: 8.446 min Scan# 877
Delta R.T. -0.000 min
Lab File: BP016400.D
Acq: 27 Jul 2023 15:03

Tgt Ion:146 Resp: 2244431

Ion	Ratio	Lower	Upper
146	100		
148	64.4	51.0	76.6
111	40.7	32.6	49.0

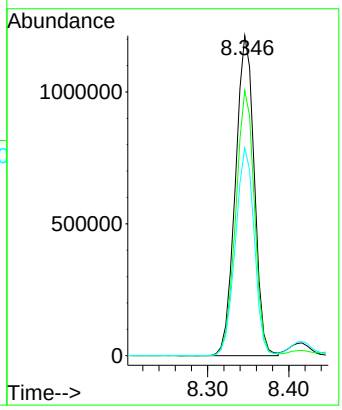




#15
Benzyl Alcohol
Concen: 72.501 ng
RT: 8.346 min Scan# 8
Delta R.T. 0.006 min
Lab File: BP016400.D
Acq: 27 Jul 2023 15:03

Tgt Ion: 79 Resp: 195254

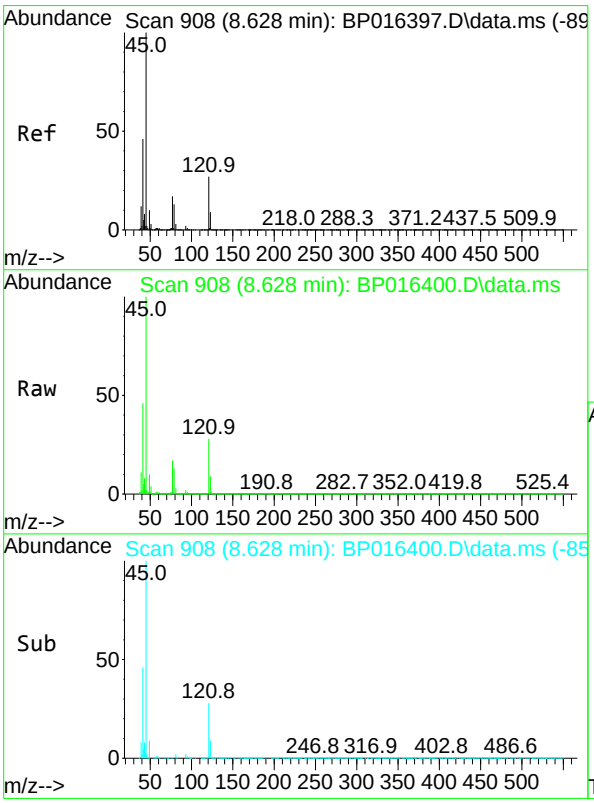
Ion	Ratio	Lower	Upper
79	100		
108	82.9	65.4	98.2
77	65.0	51.8	77.8



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

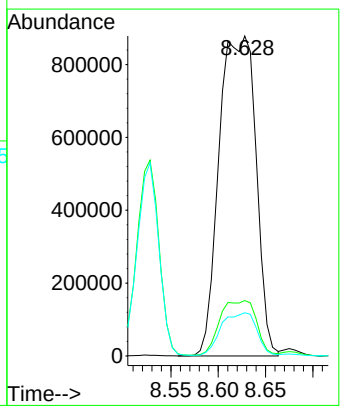
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

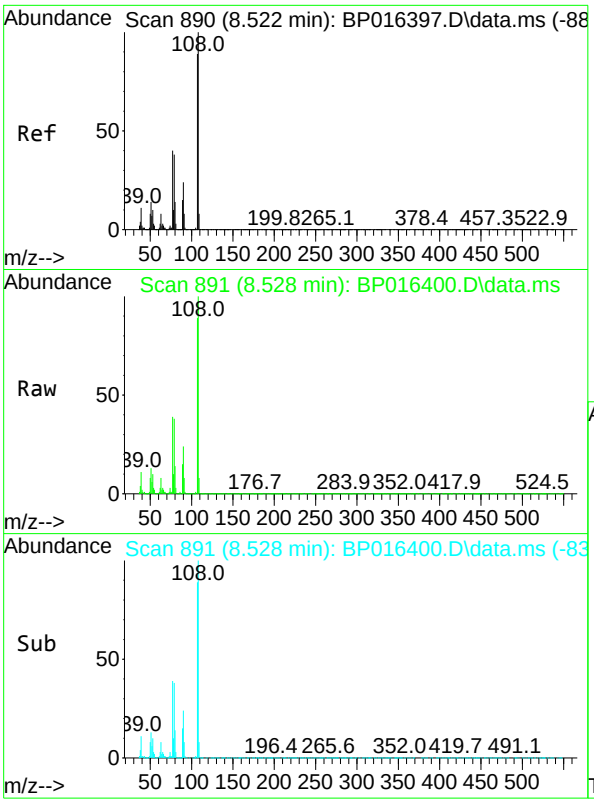


#16
2,2'-oxybis(1-Chloropropane)
Concen: 67.002 ng
RT: 8.628 min Scan# 908
Delta R.T. -0.000 min
Lab File: BP016400.D
Acq: 27 Jul 2023 15:03

Tgt Ion: 45 Resp: 2364572

Ion	Ratio	Lower	Upper
45	100		
77	17.3	0.0	37.3
79	13.5	0.0	33.3

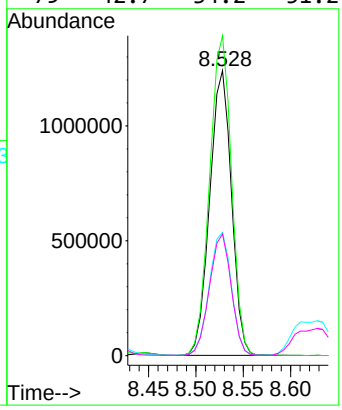




#17
2-Methylphenol
Concen: 71.975 ng
RT: 8.528 min Scan# 8
Delta R.T. 0.006 min
Lab File: BP016400.D
Acq: 27 Jul 2023 15:03

Tgt Ion:107 Resp: 198571

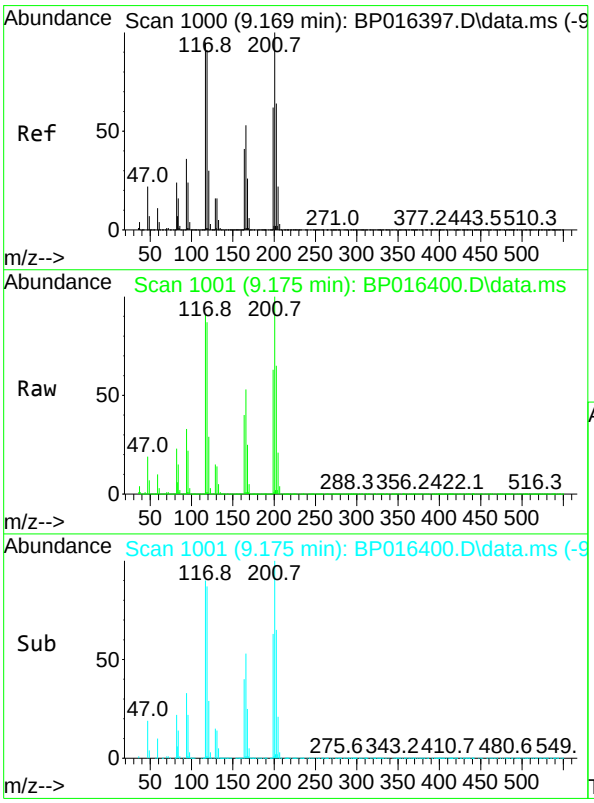
Ion	Ratio	Lower	Upper
107	100		
108	112.3	89.6	134.4
77	43.3	35.6	53.4
79	42.7	34.2	51.2



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

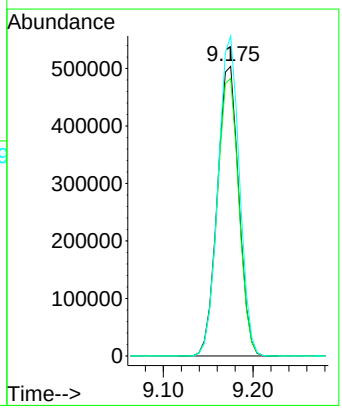
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

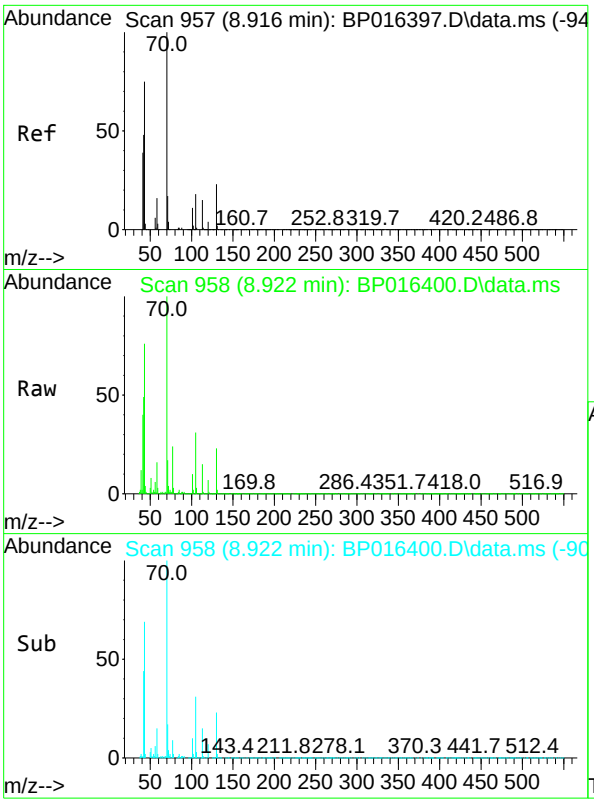


#18
Hexachloroethane
Concen: 71.627 ng
RT: 9.175 min Scan# 1001
Delta R.T. 0.006 min
Lab File: BP016400.D
Acq: 27 Jul 2023 15:03

Tgt Ion:117 Resp: 838950

Ion	Ratio	Lower	Upper
117	100		
119	95.8	76.9	115.3
201	112.9	86.2	129.4

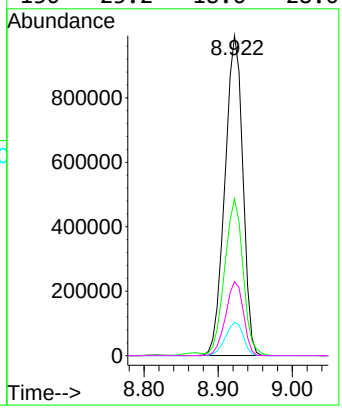




#19
n-Nitroso-di-n-propylamine
Concen: 67.593 ng
RT: 8.922 min Scan# 9
Delta R.T. 0.006 min
Lab File: BP016400.D
Acq: 27 Jul 2023 15:03

Tgt Ion: 70 Resp: 166925

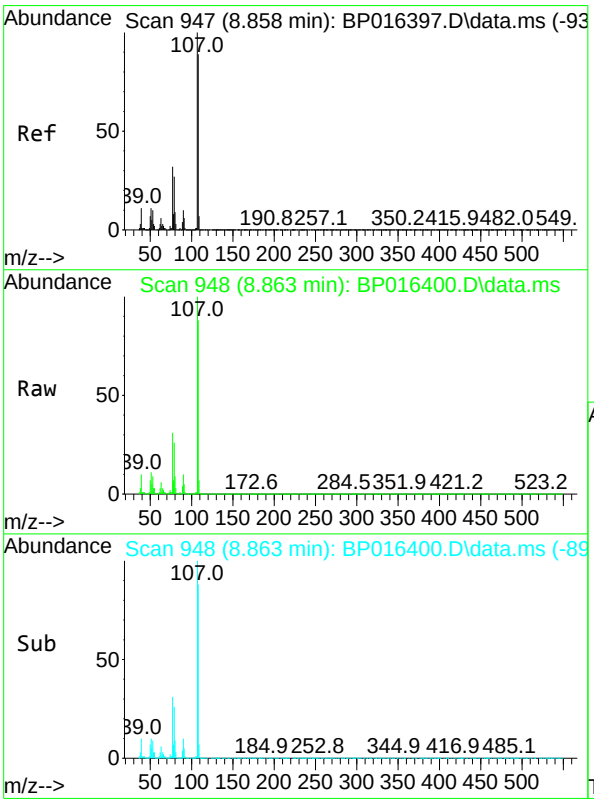
Ion	Ratio	Lower	Upper
70	100		
42	49.0	39.3	58.9
101	10.4	8.6	12.8
130	23.2	18.6	28.0



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

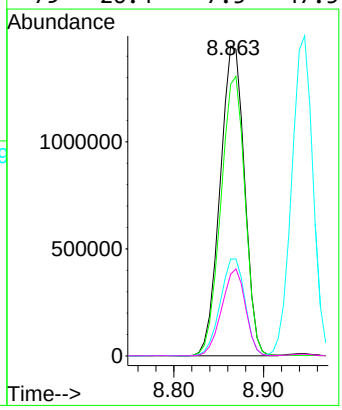
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

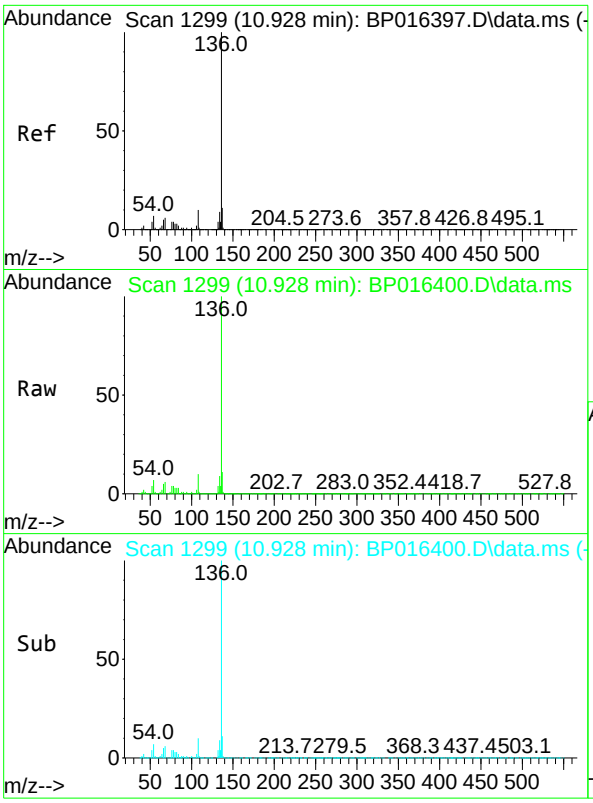


#20
3+4-Methylphenols
Concen: 73.033 ng
RT: 8.863 min Scan# 948
Delta R.T. 0.006 min
Lab File: BP016400.D
Acq: 27 Jul 2023 15:03

Tgt Ion:107 Resp: 2736525

Ion	Ratio	Lower	Upper
107	100		
108	87.8	69.1	109.1
77	31.3	12.0	52.0
79	26.4	7.5	47.5

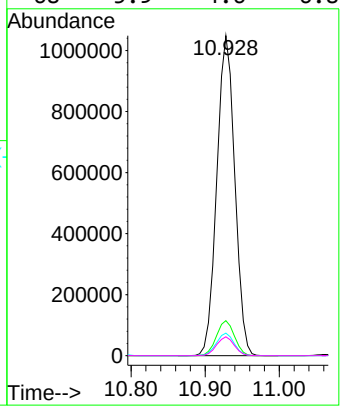




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.928 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP016400.D
Acq: 27 Jul 2023 15:03

Tgt Ion:136 Resp: 176460

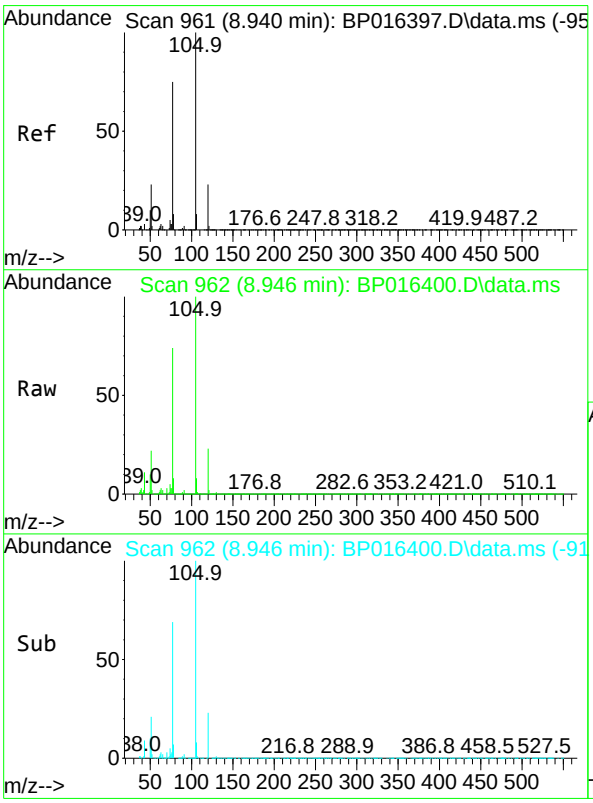
Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.6	13.0
54	7.0	5.6	8.4
68	5.9	4.6	6.8



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

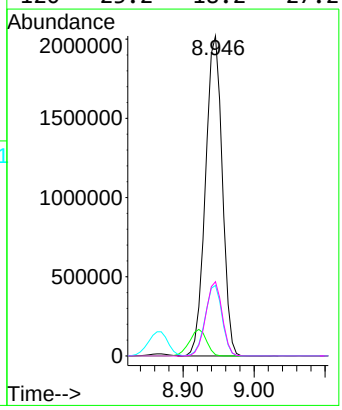
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

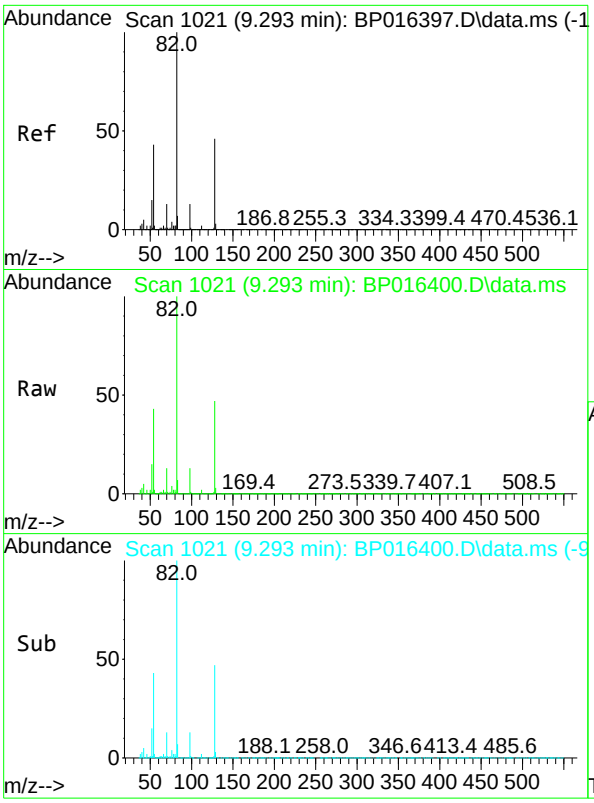


#22
Acetophenone
Concen: 74.425 ng
RT: 8.946 min Scan# 962
Delta R.T. 0.006 min
Lab File: BP016400.D
Acq: 27 Jul 2023 15:03

Tgt Ion:105 Resp: 3315876

Ion	Ratio	Lower	Upper
105	100		
71	0.4	0.2	0.2#
51	22.0	18.3	27.5
120	23.2	18.2	27.2

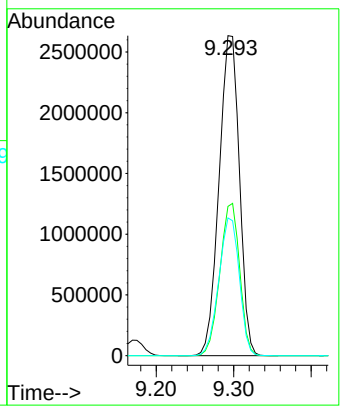




#23
Nitrobenzene-d5
Concen: 152.797 ng
RT: 9.293 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP016400.D
Acq: 27 Jul 2023 15:03

Tgt Ion: 82 Resp: 481662

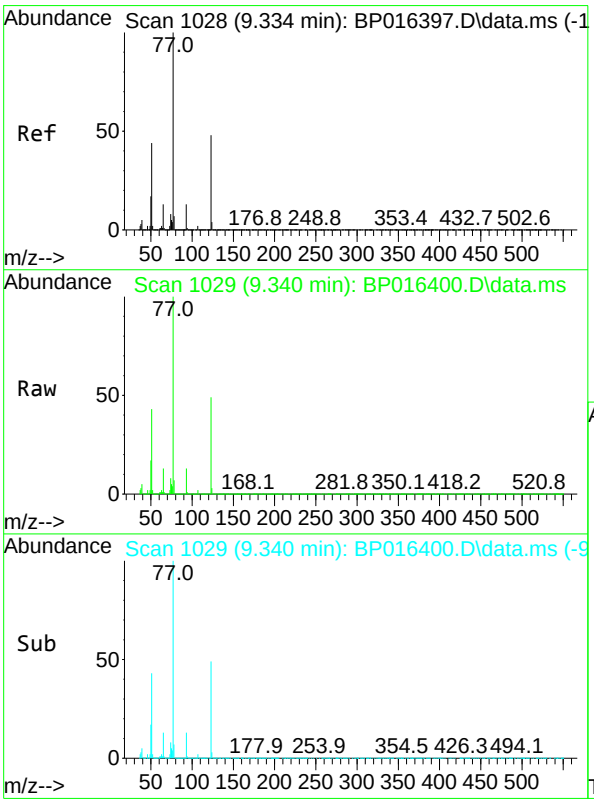
Ion	Ratio	Lower	Upper
82	100		
128	46.6	36.6	55.0
54	43.1	34.5	51.7



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

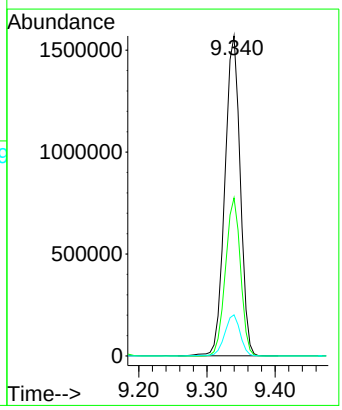
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

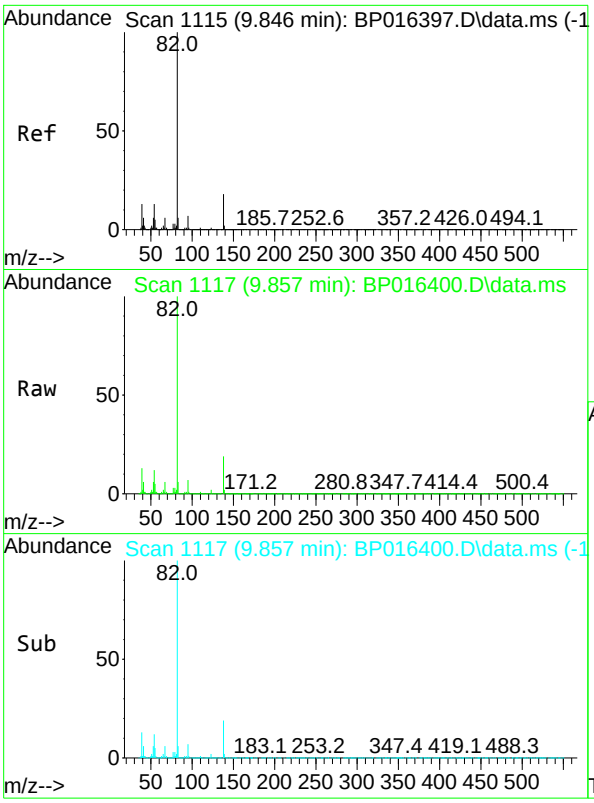


#24
Nitrobenzene
Concen: 75.952 ng
RT: 9.340 min Scan# 1029
Delta R.T. 0.006 min
Lab File: BP016400.D
Acq: 27 Jul 2023 15:03

Tgt Ion: 77 Resp: 2459122

Ion	Ratio	Lower	Upper
77	100		
123	49.4	38.6	58.0
65	12.8	10.5	15.7

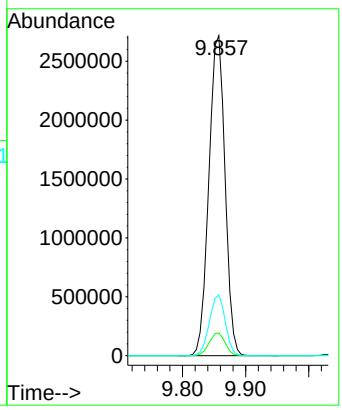




#25
Isophorone
Concen: 75.965 ng
RT: 9.857 min Scan# 1
Delta R.T. 0.012 min
Lab File: BP016400.D
Acq: 27 Jul 2023 15:03

Tgt Ion: 82 Resp: 483461

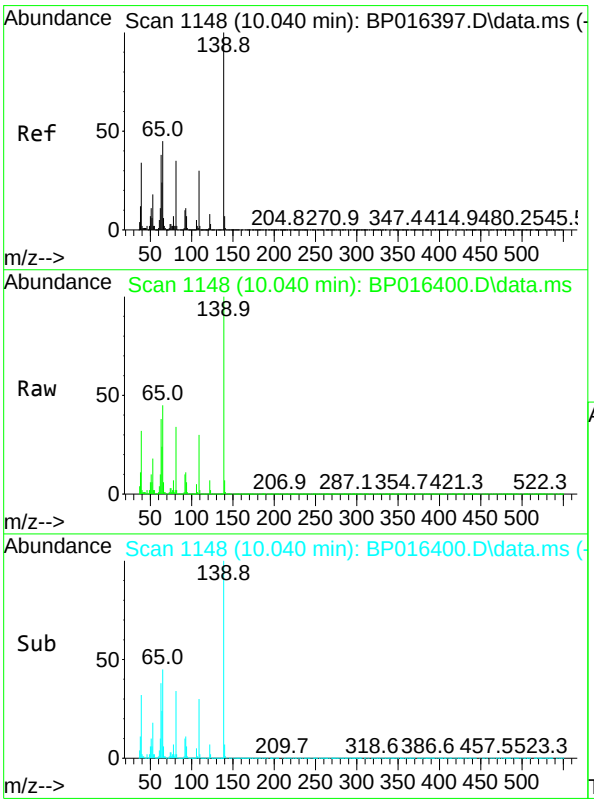
Ion	Ratio	Lower	Upper
82	100		
95	7.1	5.7	8.5
138	19.0	14.6	22.0



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

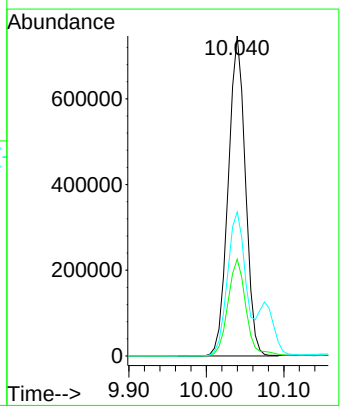
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

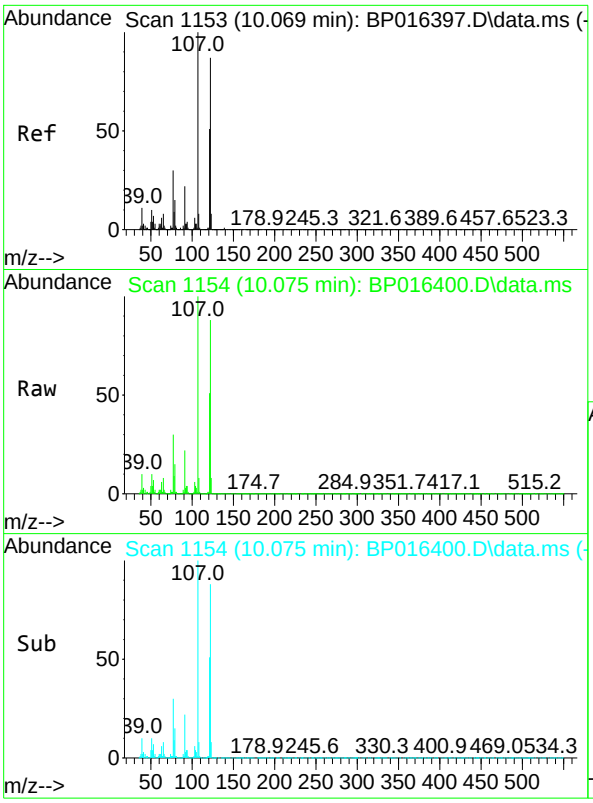


#26
2-Nitrophenol
Concen: 80.229 ng
RT: 10.040 min Scan# 1148
Delta R.T. -0.000 min
Lab File: BP016400.D
Acq: 27 Jul 2023 15:03

Tgt Ion:139 Resp: 1150901

Ion	Ratio	Lower	Upper
139	100		
109	30.3	24.2	36.4
65	45.0	35.8	53.6

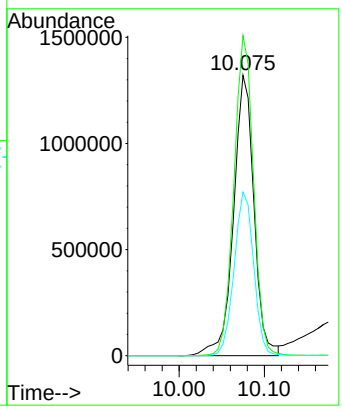




#27
2,4-Dimethylphenol
Concen: 77.537 ng
RT: 10.075 min Scan# 11
Delta R.T. 0.006 min
Lab File: BP016400.D
Acq: 27 Jul 2023 15:03

Tgt Ion:122 Resp: 220766

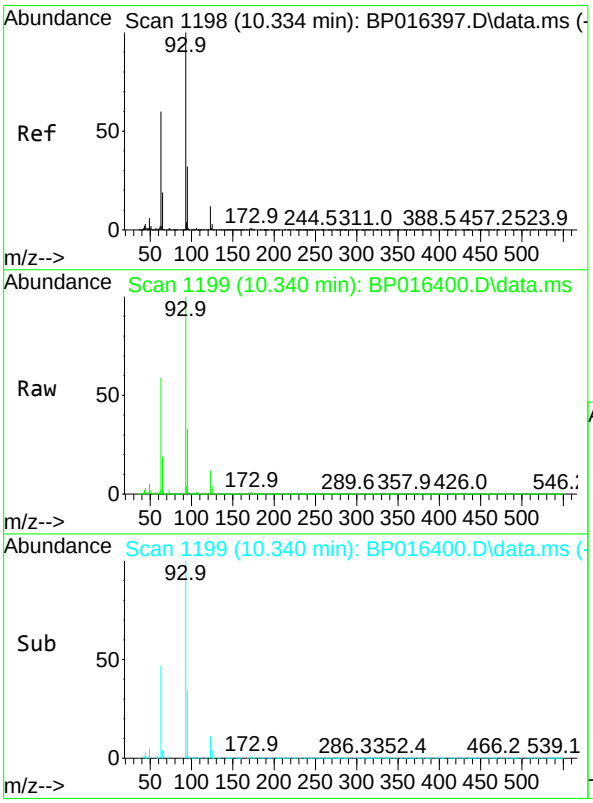
Ion	Ratio	Lower	Upper
122	100		
107	114.1	91.9	137.9
121	58.4	47.2	70.8



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

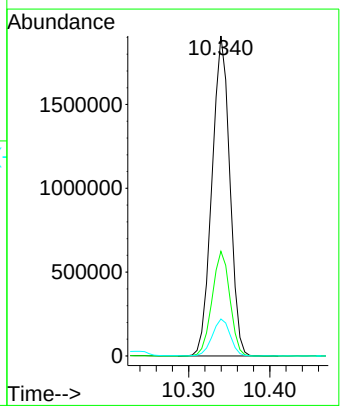
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

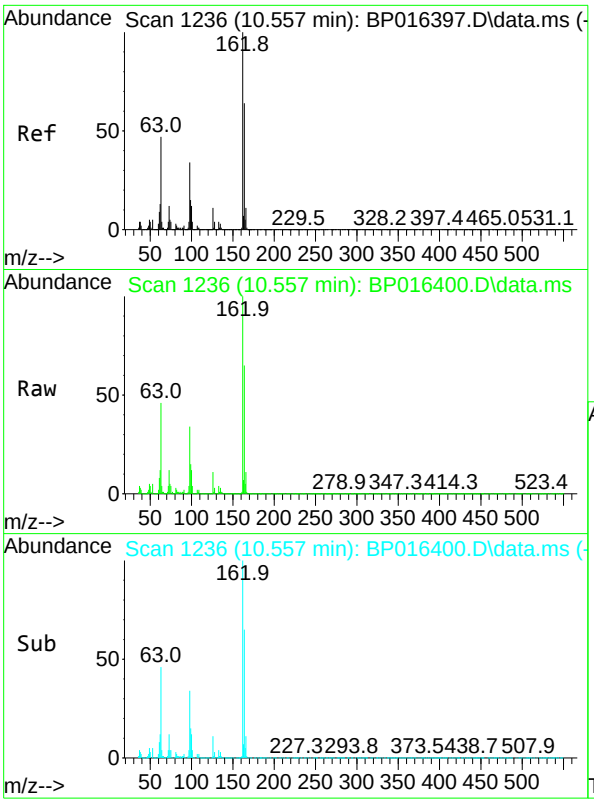


#28
bis(2-Chloroethoxy)methane
Concen: 74.565 ng
RT: 10.340 min Scan# 1199
Delta R.T. 0.006 min
Lab File: BP016400.D
Acq: 27 Jul 2023 15:03

Tgt Ion: 93 Resp: 2906800

Ion	Ratio	Lower	Upper
93	100		
95	32.7	25.8	38.8
123	11.5	9.4	14.0

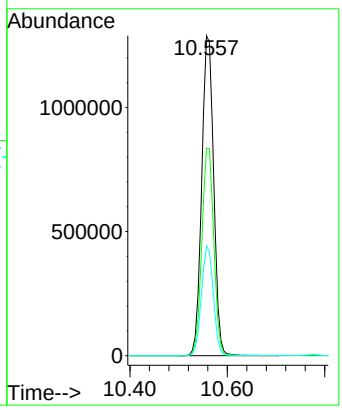




#29
2,4-Dichlorophenol
Concen: 82.292 ng
RT: 10.557 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP016400.D
Acq: 27 Jul 2023 15:03

Tgt Ion:162 Resp: 219275

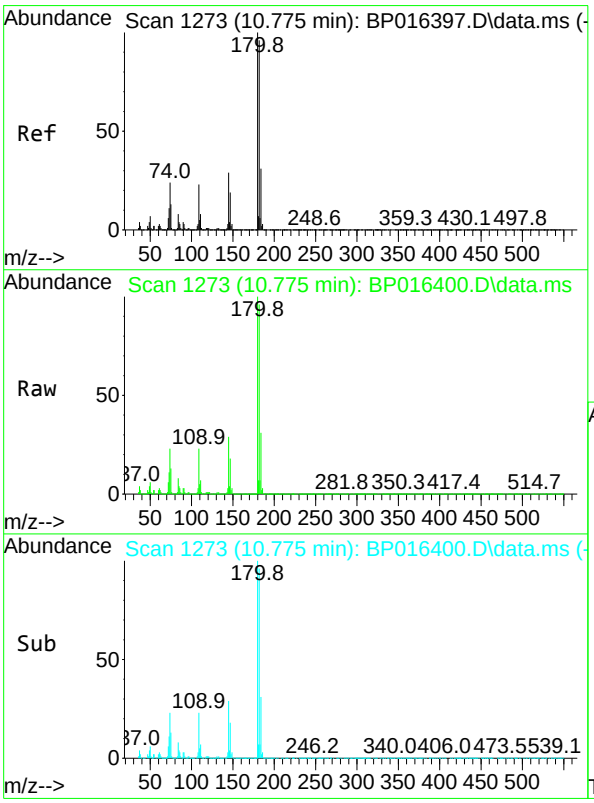
Ion	Ratio	Lower	Upper
162	100		
164	64.9	44.2	84.2
98	34.2	13.7	53.7



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

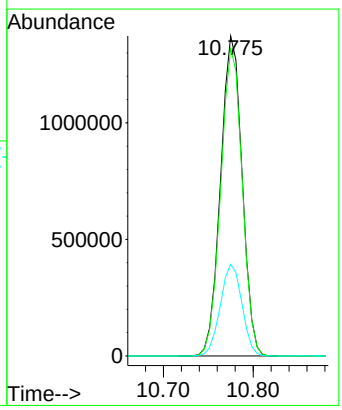
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

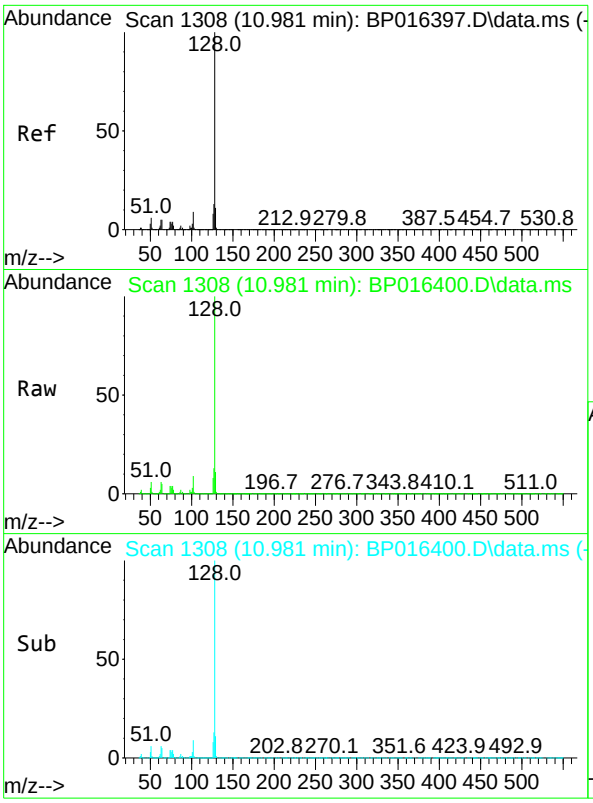


#30
1,2,4-Trichlorobenzene
Concen: 79.154 ng
RT: 10.775 min Scan# 1273
Delta R.T. -0.000 min
Lab File: BP016400.D
Acq: 27 Jul 2023 15:03

Tgt Ion:180 Resp: 2284465

Ion	Ratio	Lower	Upper
180	100		
182	96.0	77.1	115.7
145	28.6	22.9	34.3

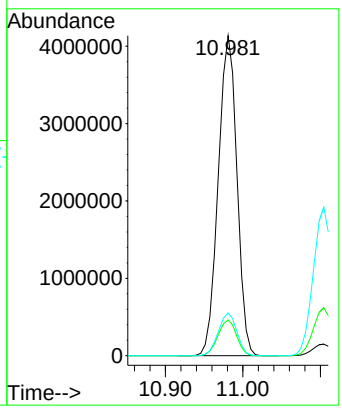




#31
Naphthalene
Concen: 75.121 ng
RT: 10.981 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP016400.D
Acq: 27 Jul 2023 15:03

Tgt Ion:128 Resp: 693380

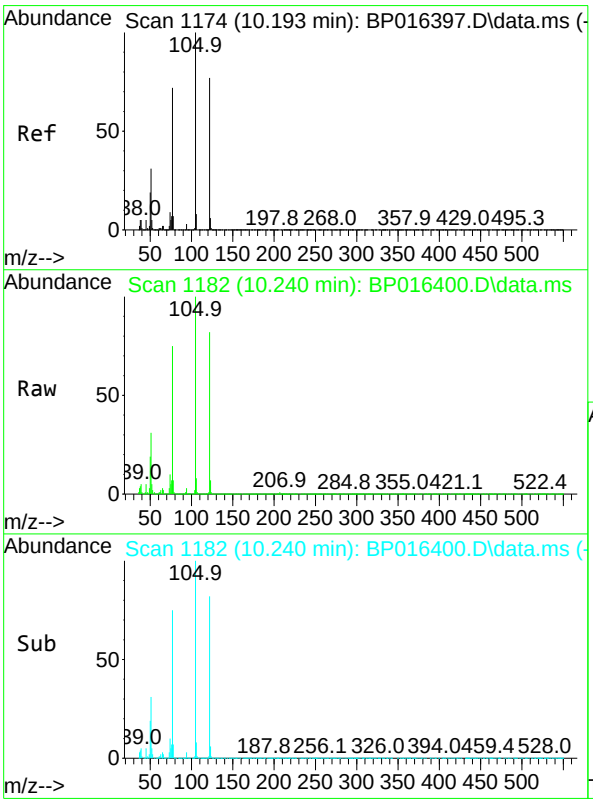
Ion	Ratio	Lower	Upper
128	100		
129	11.2	8.6	12.8
127	13.3	10.4	15.6



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

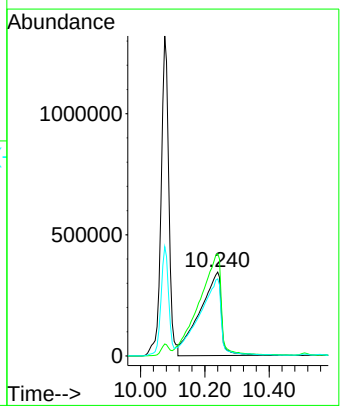
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

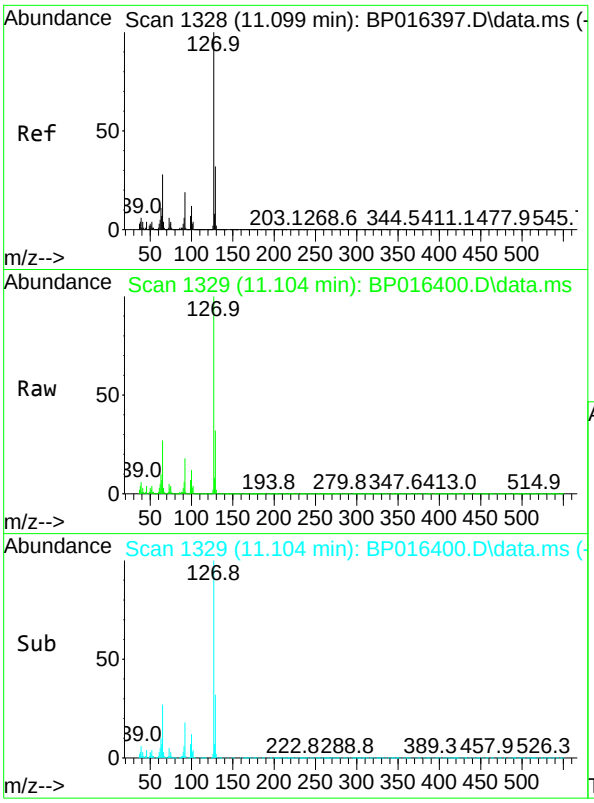


#32
Benzoic acid
Concen: 81.436 ng
RT: 10.240 min Scan# 1182
Delta R.T. 0.047 min
Lab File: BP016400.D
Acq: 27 Jul 2023 15:03

Tgt Ion:122 Resp: 1615383

Ion	Ratio	Lower	Upper
122	100		
105	122.0	105.2	145.2
77	92.0	72.2	112.2

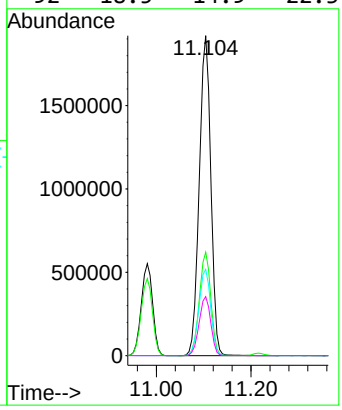




#33
4-Chloroaniline
Concen: 78.126 ng
RT: 11.104 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP016400.D
Acq: 27 Jul 2023 15:03

Tgt Ion:127 Resp: 325280

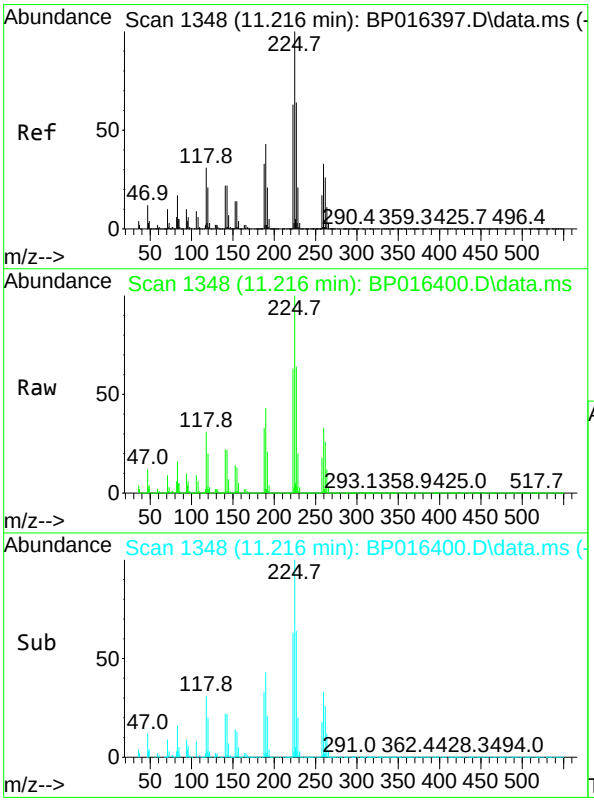
Ion	Ratio	Lower	Upper
127	100		
129	32.4	25.8	38.8
65	26.9	22.7	34.1
92	18.5	14.9	22.3



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

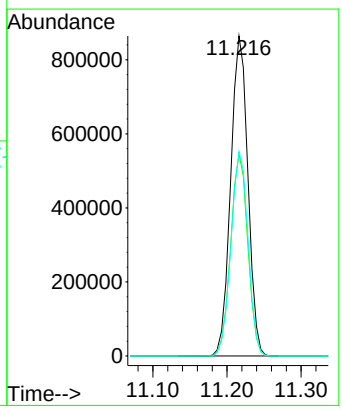
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

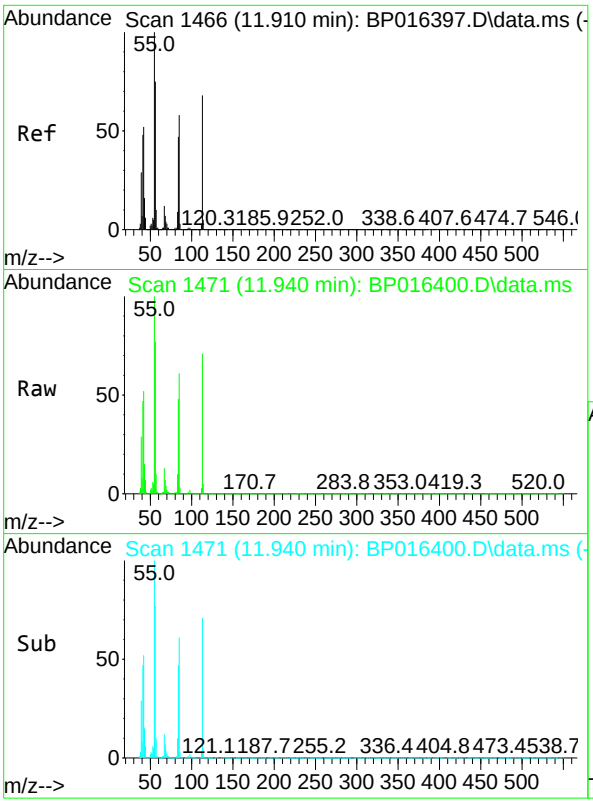


#34
Hexachlorobutadiene
Concen: 81.328 ng
RT: 11.216 min Scan# 1348
Delta R.T. -0.000 min
Lab File: BP016400.D
Acq: 27 Jul 2023 15:03

Tgt Ion:225 Resp: 1389663

Ion	Ratio	Lower	Upper
225	100		
223	63.3	50.2	75.4
227	63.9	51.0	76.6





#35
Caprolactam
Concen: 82.643 ng m
RT: 11.940 min Scan# 14
Delta R.T. 0.029 min
Lab File: BP016400.D
Acq: 27 Jul 2023 15:03

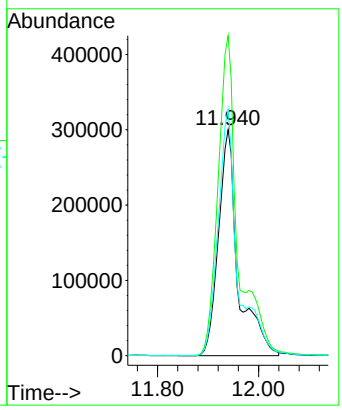
Tgt Ion:113 Resp: 80483

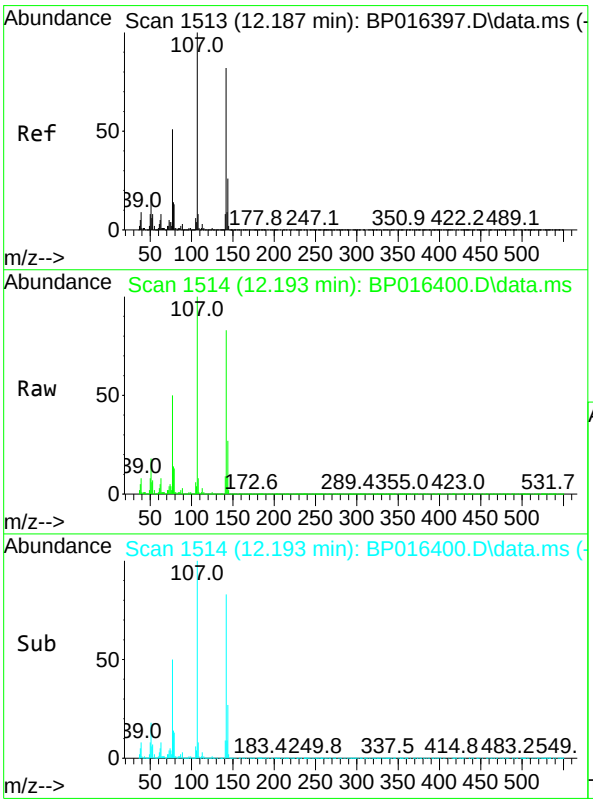
Ion	Ratio	Lower	Upper
113	100		
55	141.6	128.0	168.0
56	109.0	91.3	131.3

Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

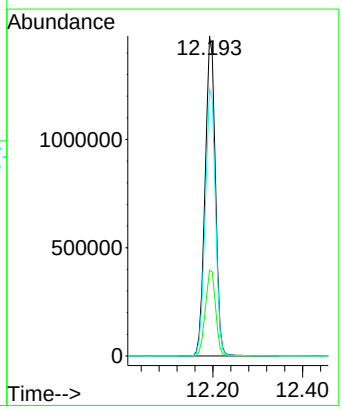


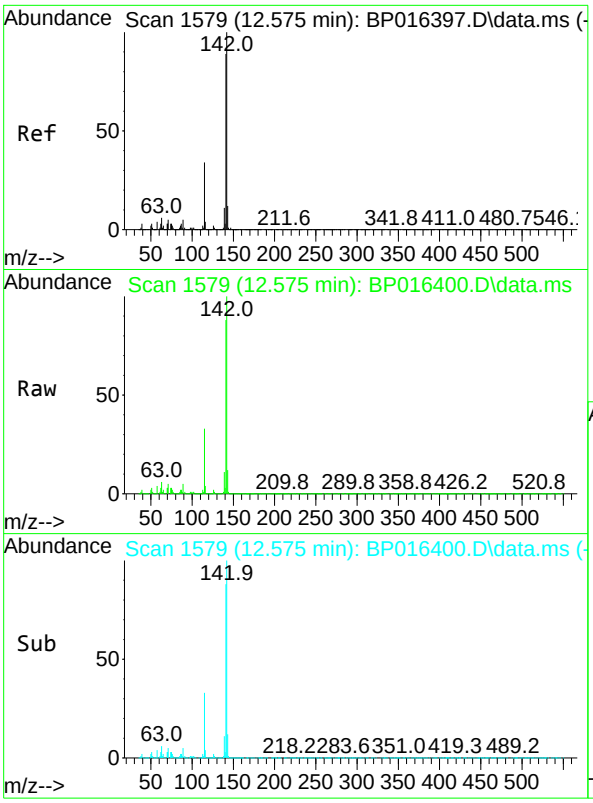


#36
4-Chloro-3-methylphenol
Concen: 79.136 ng
RT: 12.193 min Scan# 1514
Delta R.T. 0.006 min
Lab File: BP016400.D
Acq: 27 Jul 2023 15:03

Tgt Ion:107 Resp: 2343936

Ion	Ratio	Lower	Upper
107	100		
144	26.8	21.0	31.6
142	83.4	65.6	98.4

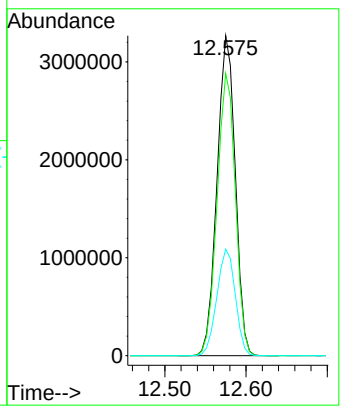




#37
2-Methylnaphthalene
Concen: 76.134 ng
RT: 12.575 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP016400.D
Acq: 27 Jul 2023 15:03

Tgt Ion:142 Resp: 510509

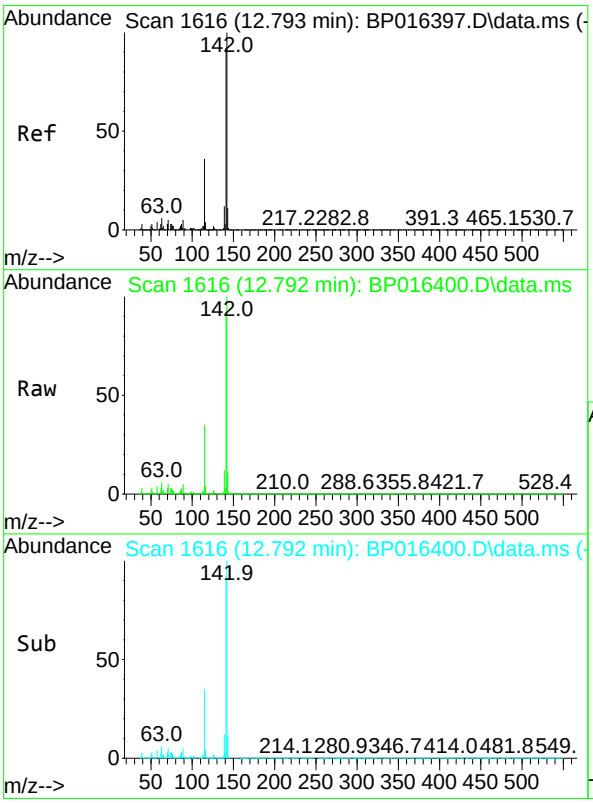
Ion	Ratio	Lower	Upper
142	100		
141	88.2	71.4	107.2
115	33.3	27.0	40.4



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

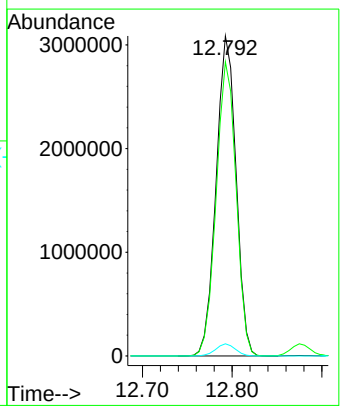
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

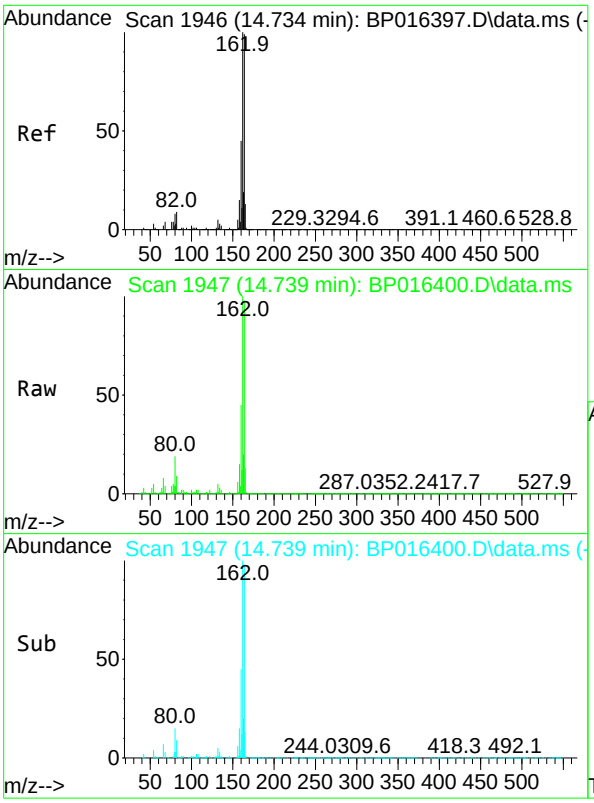


#38
1-Methylnaphthalene
Concen: 75.610 ng
RT: 12.792 min Scan# 1616
Delta R.T. -0.000 min
Lab File: BP016400.D
Acq: 27 Jul 2023 15:03

Tgt Ion:142 Resp: 4753224

Ion	Ratio	Lower	Upper
142	100		
141	91.9	73.8	110.6
116	3.8	2.9	4.3

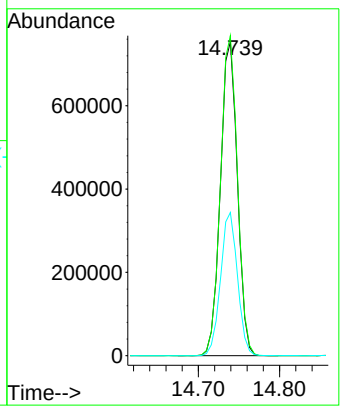




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.739 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP016400.D
Acq: 27 Jul 2023 15:03

Tgt Ion:164 Resp: 109663

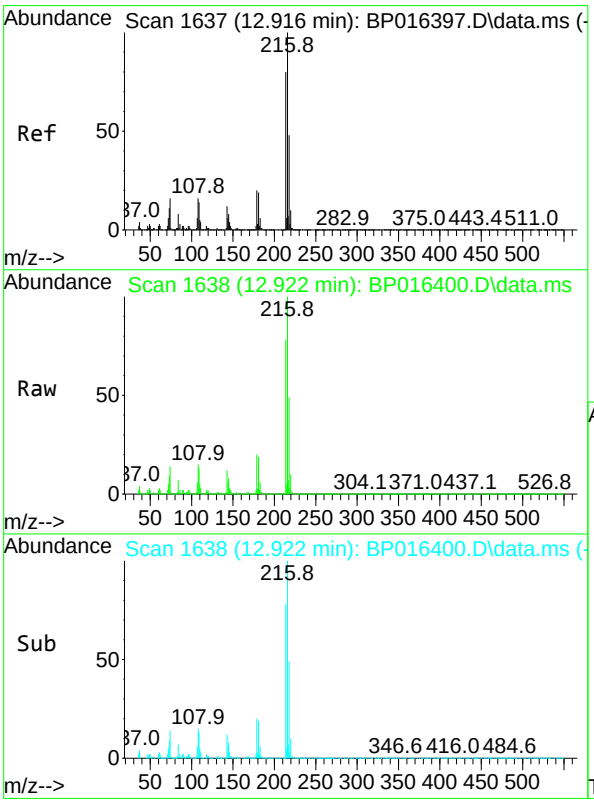
Ion	Ratio	Lower	Upper
164	100		
162	101.9	81.0	121.6
160	45.6	36.6	55.0



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

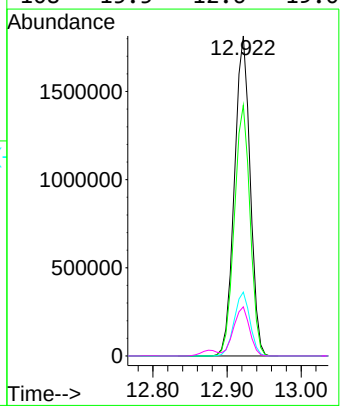
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

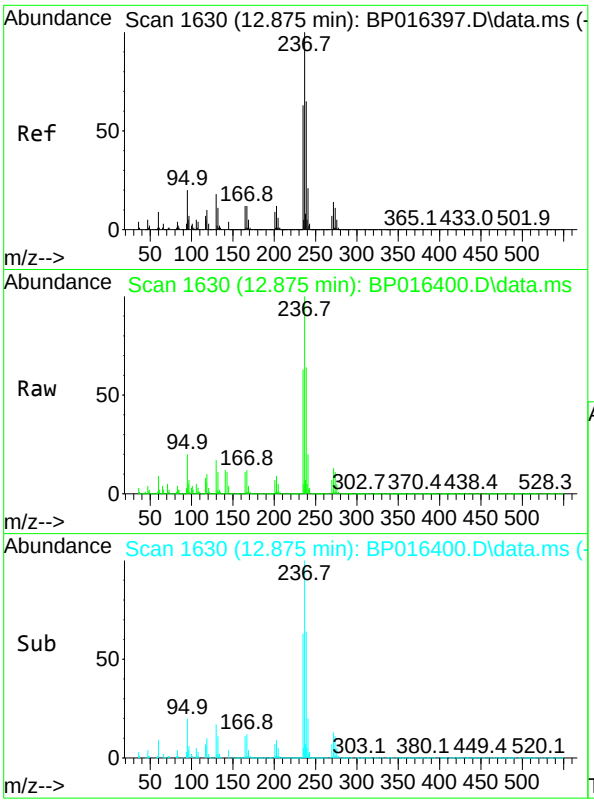


#40
1,2,4,5-Tetrachlorobenzene
Concen: 80.338 ng
RT: 12.922 min Scan# 1638
Delta R.T. 0.006 min
Lab File: BP016400.D
Acq: 27 Jul 2023 15:03

Tgt Ion:216 Resp: 2677323

Ion	Ratio	Lower	Upper
216	100		
214	78.4	62.8	94.2
179	20.0	16.0	24.0
108	15.5	12.6	19.0





#41
Hexachlorocyclopentadiene
Concen: 88.236 ng
RT: 12.875 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP016400.D
Acq: 27 Jul 2023 15:03

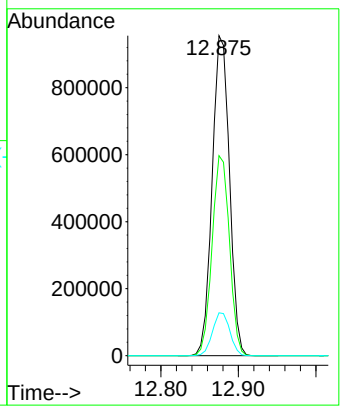
Tgt Ion:237 Resp: 147686

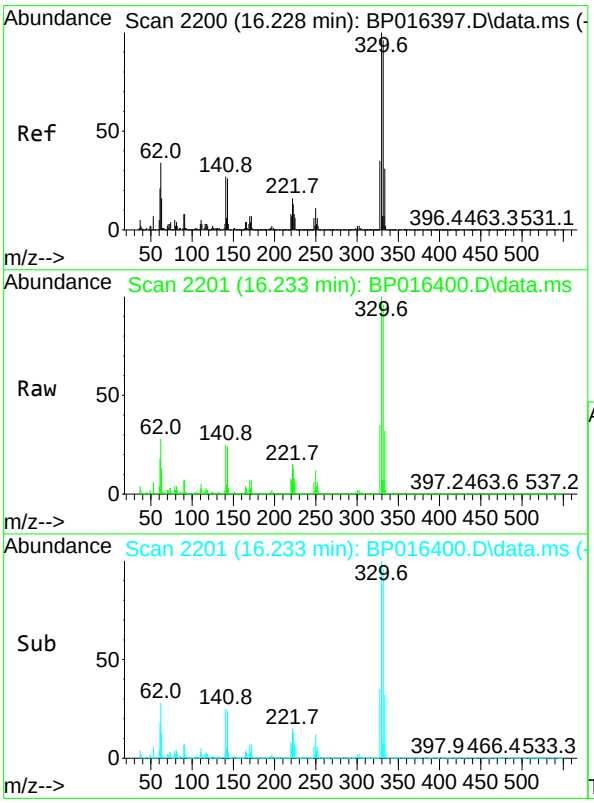
Ion	Ratio	Lower	Upper
237	100		
235	62.5	42.7	82.7
272	13.4	0.0	33.5

Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

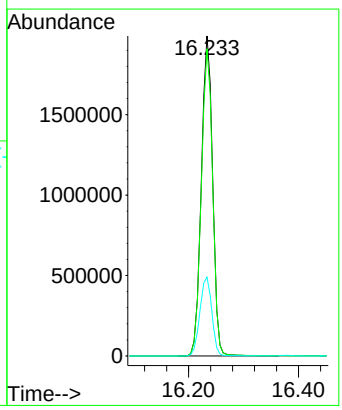


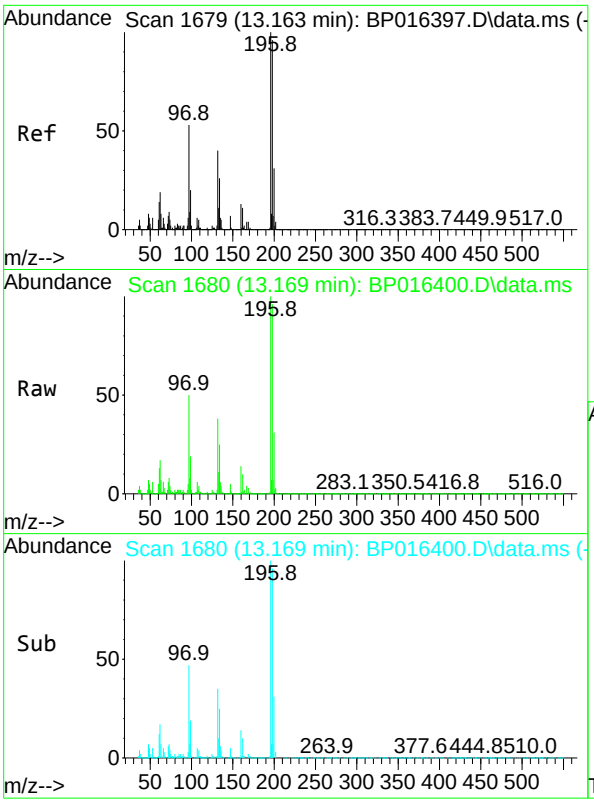


#42
2,4,6-Tribromophenol
Concen: 175.595 ng
RT: 16.233 min Scan# 2201
Delta R.T. 0.005 min
Lab File: BP016400.D
Acq: 27 Jul 2023 15:03

Tgt Ion:330 Resp: 2832892

Ion	Ratio	Lower	Upper
330	100		
332	96.4	77.8	116.8
141	26.1	22.6	34.0

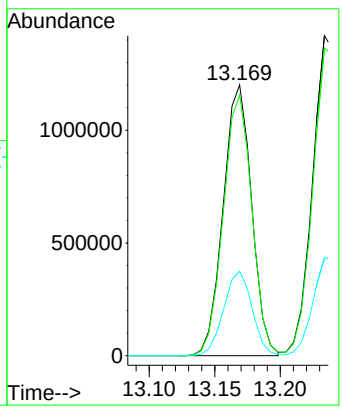




#43
2,4,6-Trichlorophenol
Concen: 84.787 ng
RT: 13.169 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP016400.D
Acq: 27 Jul 2023 15:03

Tgt Ion:196 Resp: 181300

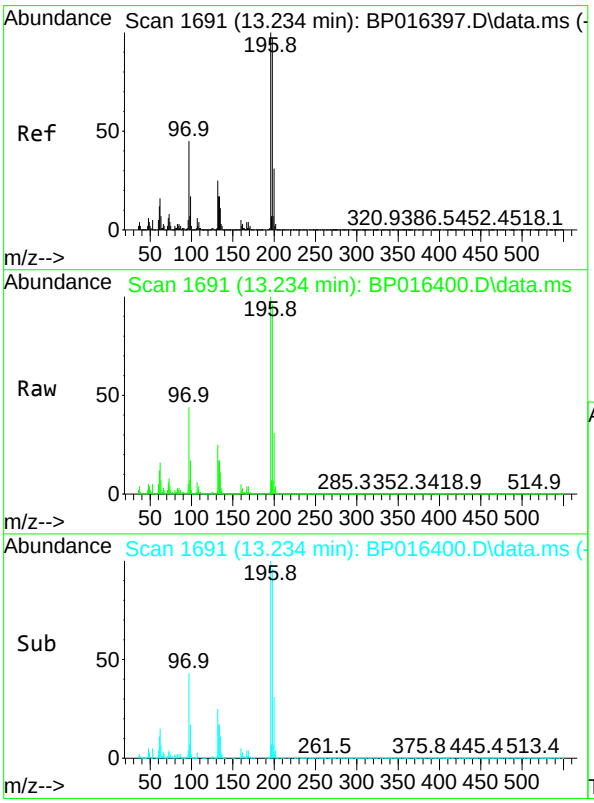
Ion	Ratio	Lower	Upper
196	100		
198	96.3	77.0	115.4
200	31.2	24.5	36.7



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

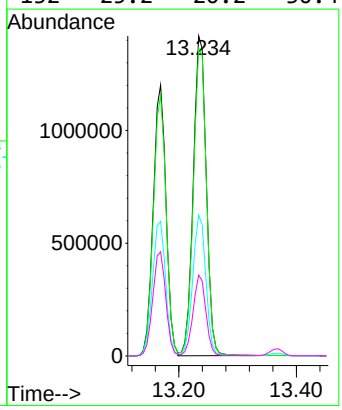
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

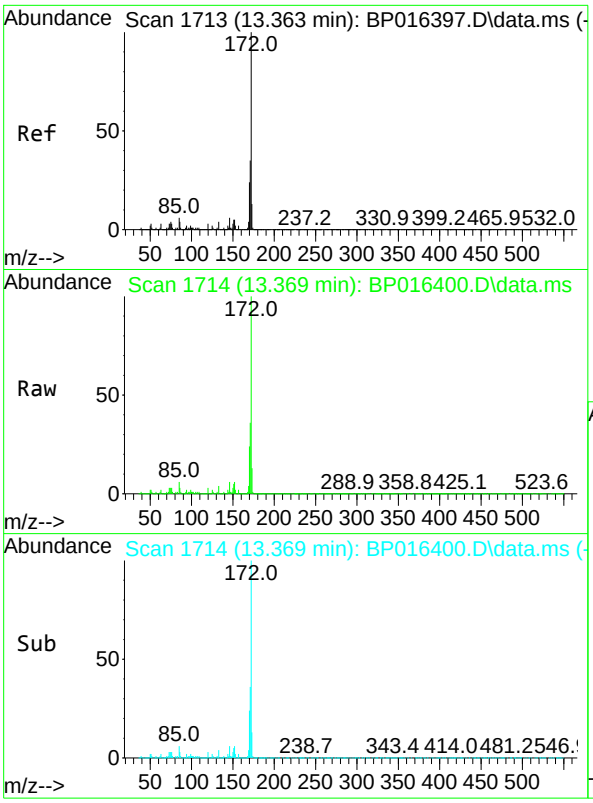


#44
2,4,5-Trichlorophenol
Concen: 83.718 ng
RT: 13.234 min Scan# 1691
Delta R.T. -0.000 min
Lab File: BP016400.D
Acq: 27 Jul 2023 15:03

Tgt Ion:196 Resp: 2171857

Ion	Ratio	Lower	Upper
196	100		
198	96.2	77.3	115.9
97	44.0	36.2	54.4
132	25.2	20.2	30.4

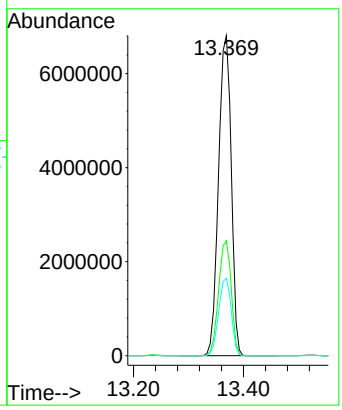




#45
2-Fluorobiphenyl
Concen: 142.793 ng
RT: 13.369 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP016400.D
Acq: 27 Jul 2023 15:03

Tgt Ion:172 Resp:1092247

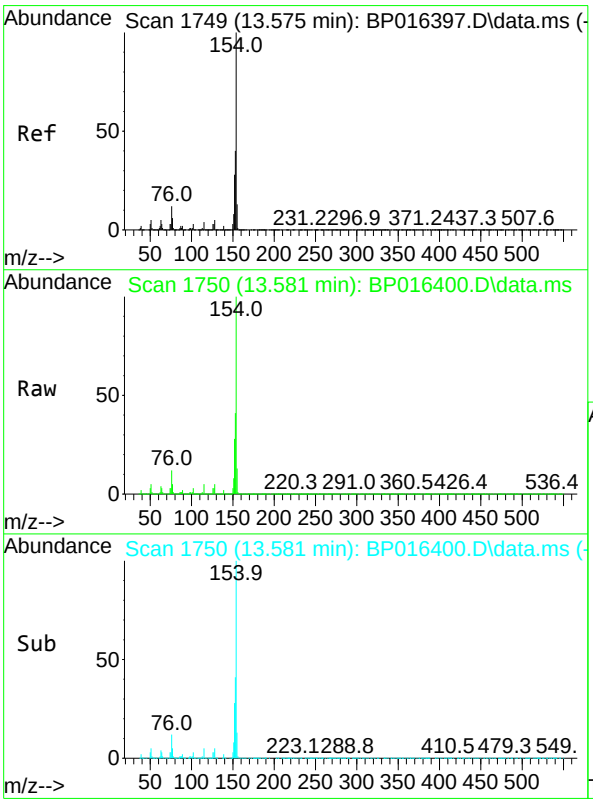
Ion	Ratio	Lower	Upper
172	100		
171	36.0	28.2	42.2
170	24.2	19.1	28.7



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

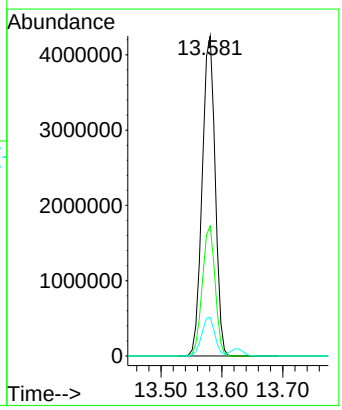
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

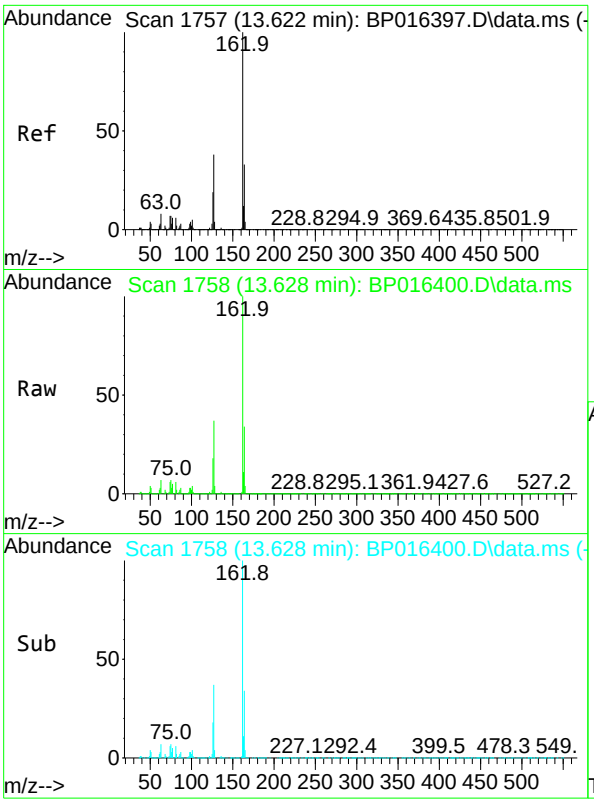


#46
1,1'-Biphenyl
Concen: 74.915 ng
RT: 13.581 min Scan# 1750
Delta R.T. 0.006 min
Lab File: BP016400.D
Acq: 27 Jul 2023 15:03

Tgt Ion:154 Resp: 6262528

Ion	Ratio	Lower	Upper
154	100		
153	40.6	20.1	60.1
76	12.0	0.0	32.5

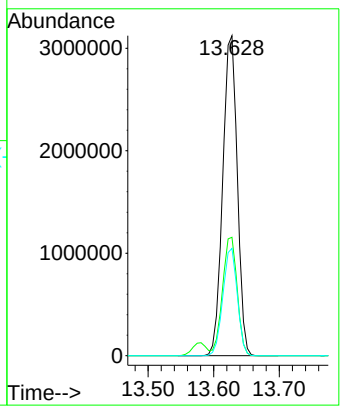




#47
2-Chloronaphthalene
Concen: 76.080 ng
RT: 13.628 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP016400.D
Acq: 27 Jul 2023 15:03

Tgt Ion:162 Resp: 479810

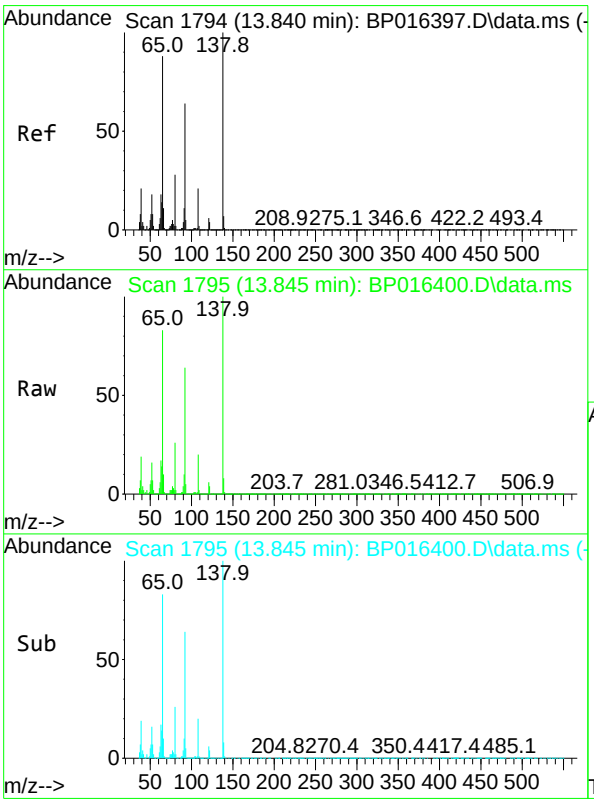
Ion	Ratio	Lower	Upper
162	100		
127	37.0	30.1	45.1
164	33.6	26.6	39.8



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

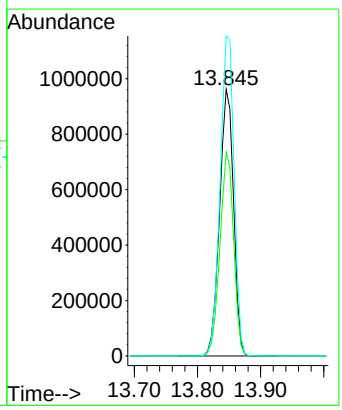
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

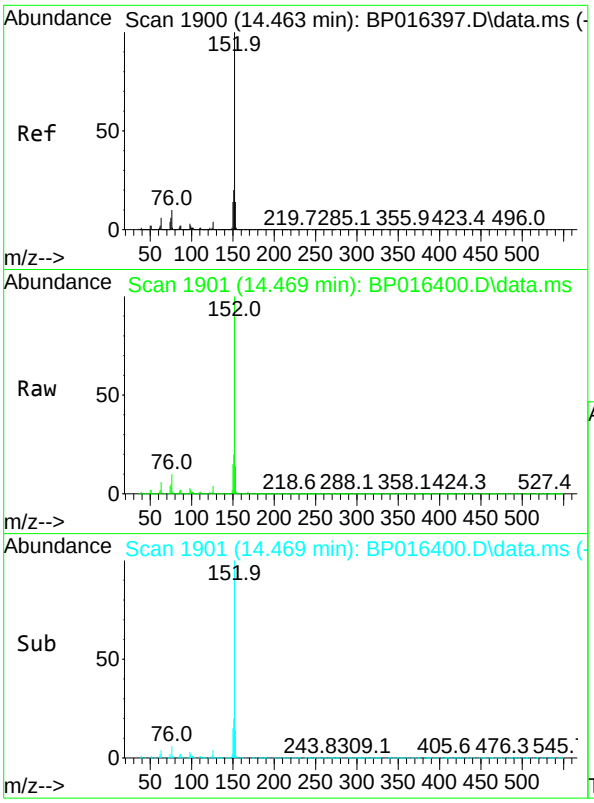


#48
2-Nitroaniline
Concen: 83.213 ng
RT: 13.845 min Scan# 1795
Delta R.T. 0.006 min
Lab File: BP016400.D
Acq: 27 Jul 2023 15:03

Tgt Ion: 65 Resp: 1479302

Ion	Ratio	Lower	Upper
65	100		
92	76.3	58.2	87.4
138	120.1	91.3	136.9

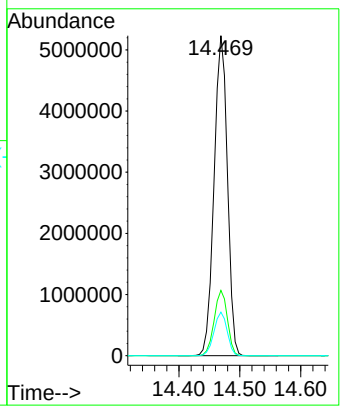




#49
Acenaphthylene
Concen: 75.871 ng
RT: 14.469 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP016400.D
Acq: 27 Jul 2023 15:03

Tgt Ion:152 Resp: 793923

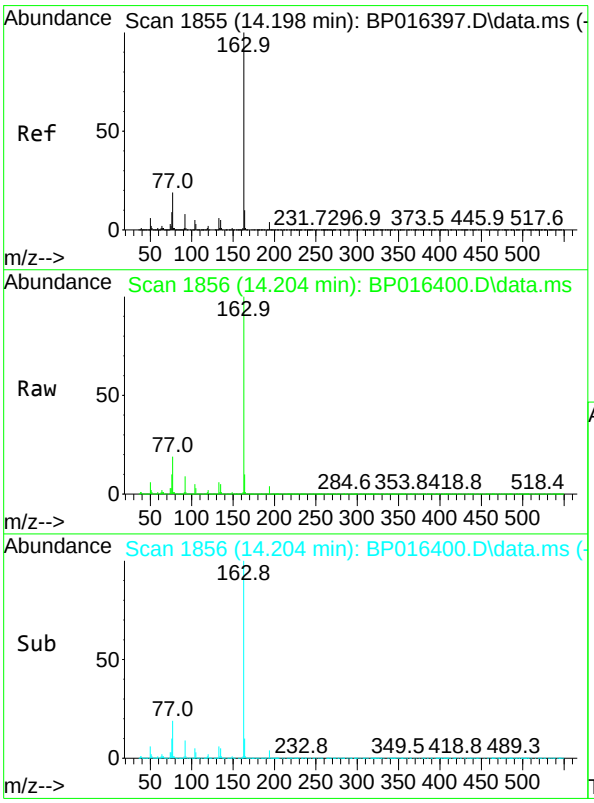
Ion	Ratio	Lower	Upper
152	100		
151	20.4	16.2	24.4
153	13.6	10.8	16.2



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

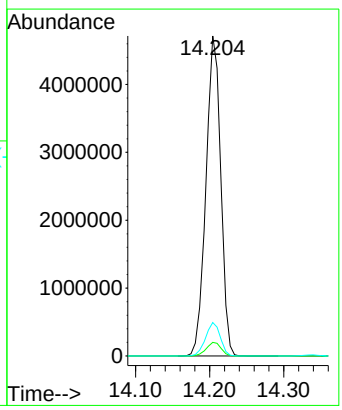
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

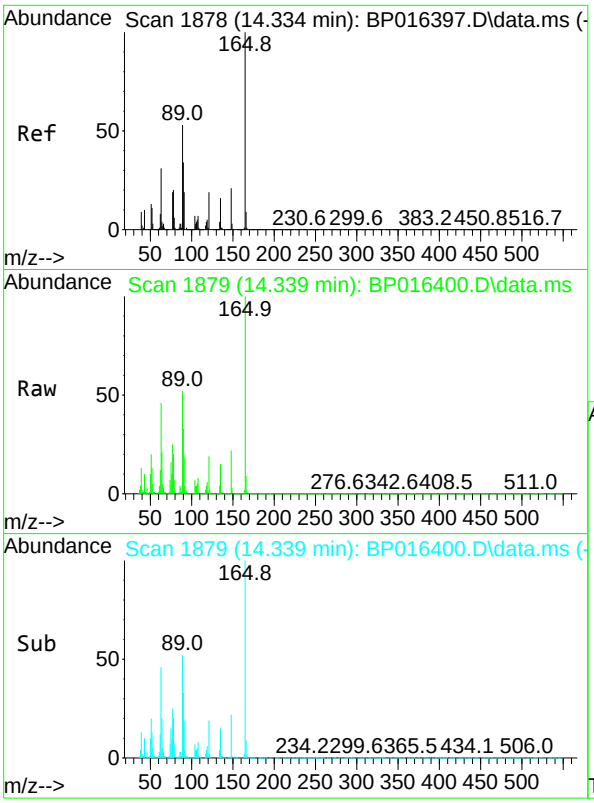


#50
Dimethylphthalate
Concen: 76.453 ng
RT: 14.204 min Scan# 1856
Delta R.T. 0.006 min
Lab File: BP016400.D
Acq: 27 Jul 2023 15:03

Tgt Ion:163 Resp: 6533473

Ion	Ratio	Lower	Upper
163	100		
194	4.3	3.4	5.2
164	10.4	8.2	12.2

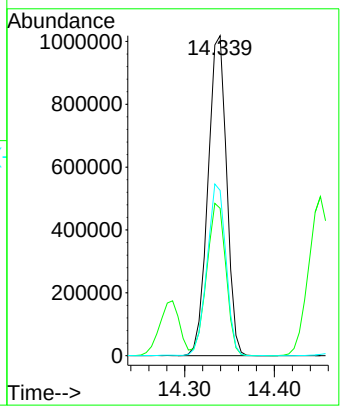




#51
2,6-Dinitrotoluene
Concen: 83.797 ng
RT: 14.339 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP016400.D
Acq: 27 Jul 2023 15:03

Tgt Ion:165 Resp: 146702

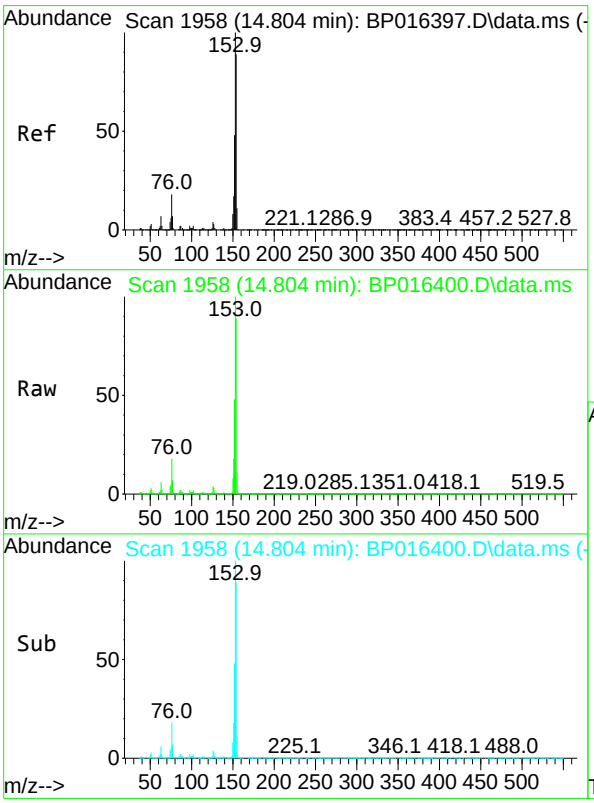
Ion	Ratio	Lower	Upper
165	100		
63	46.0	39.1	58.7
89	51.6	42.5	63.7



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

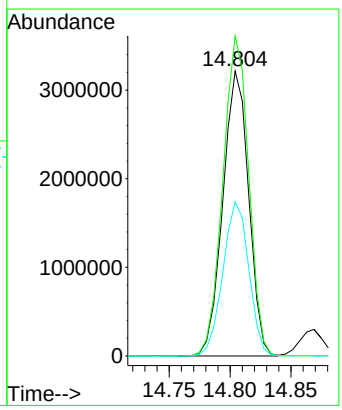
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

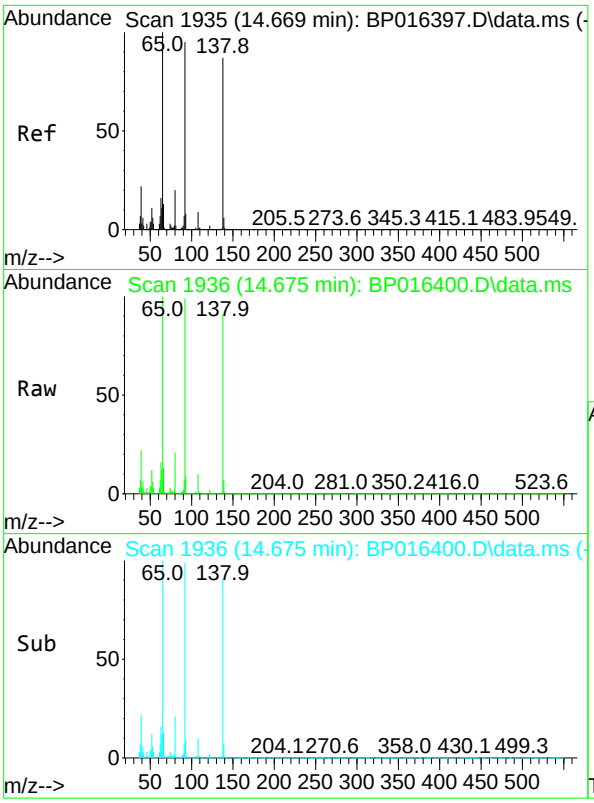


#52
Acenaphthene
Concen: 76.116 ng
RT: 14.804 min Scan# 1958
Delta R.T. -0.000 min
Lab File: BP016400.D
Acq: 27 Jul 2023 15:03

Tgt Ion:154 Resp: 4736297

Ion	Ratio	Lower	Upper
154	100		
153	112.3	90.4	135.6
152	54.2	43.4	65.0





#53
3-Nitroaniline
Concen: 84.048 ng
RT: 14.675 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP016400.D
Acq: 27 Jul 2023 15:03

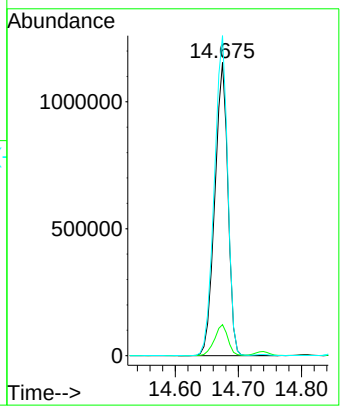
Tgt Ion:138 Resp: 166353

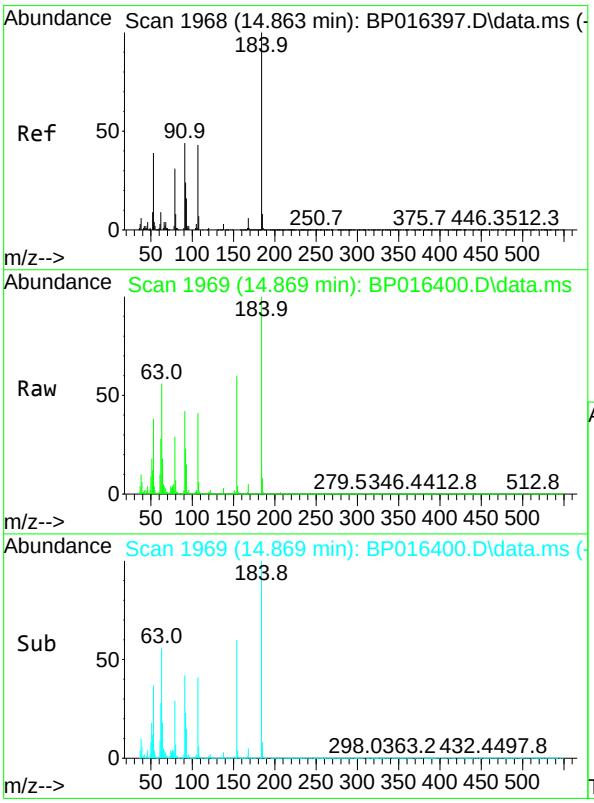
Ion	Ratio	Lower	Upper
138	100		
108	10.6	8.7	13.1
92	109.2	87.6	131.4

Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

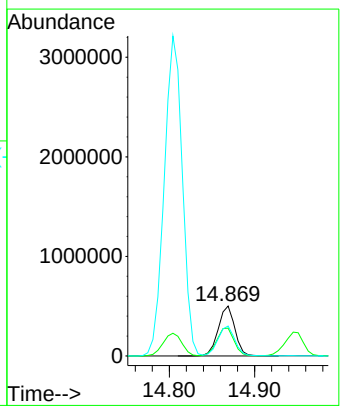


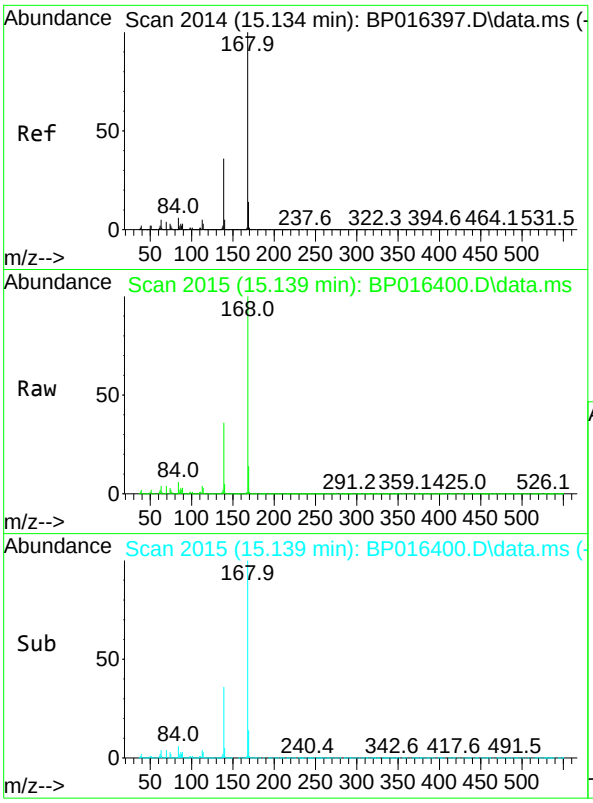


#54
2,4-Dinitrophenol
Concen: 82.580 ng
RT: 14.869 min Scan# 1969
Delta R.T. 0.006 min
Lab File: BP016400.D
Acq: 27 Jul 2023 15:03

Tgt Ion:184 Resp: 678689

Ion	Ratio	Lower	Upper
184	100		
63	55.7	48.2	72.4
154	59.8	49.6	74.4

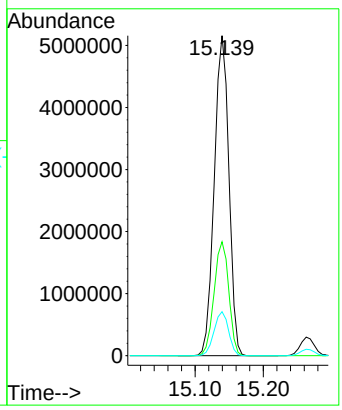




#55
Dibenzofuran
Concen: 75.391 ng
RT: 15.139 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP016400.D
Acq: 27 Jul 2023 15:03

Tgt Ion:168 Resp: 769390

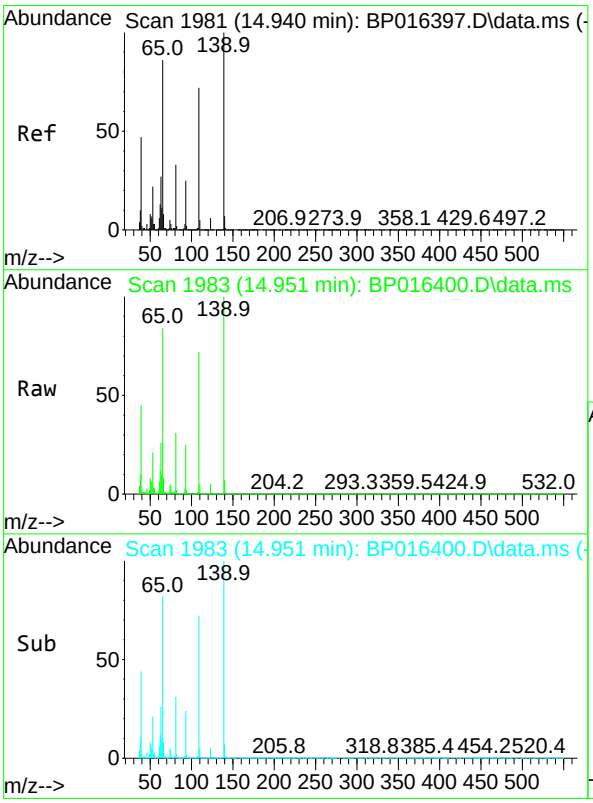
Ion	Ratio	Lower	Upper
168	100		
139	35.6	28.9	43.3
169	13.7	11.0	16.4



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

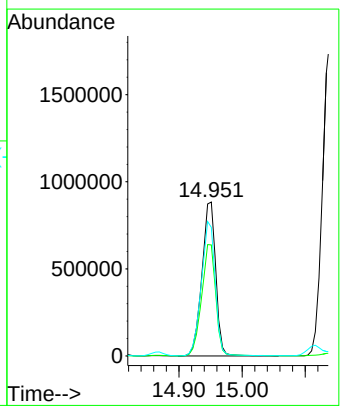
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

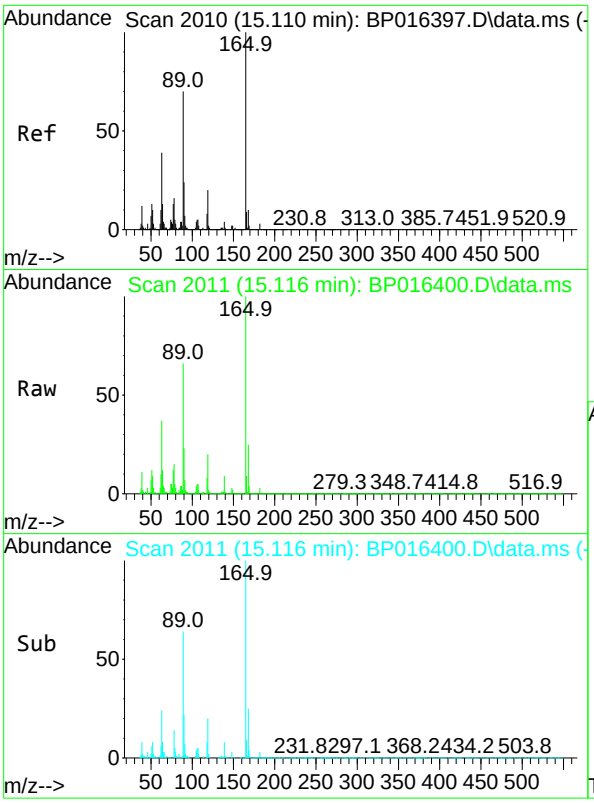


#56
4-Nitrophenol
Concen: 87.161 ng
RT: 14.951 min Scan# 1983
Delta R.T. 0.012 min
Lab File: BP016400.D
Acq: 27 Jul 2023 15:03

Tgt Ion:139 Resp: 1350420

Ion	Ratio	Lower	Upper
139	100		
109	72.1	51.9	91.9
65	83.5	66.2	106.2

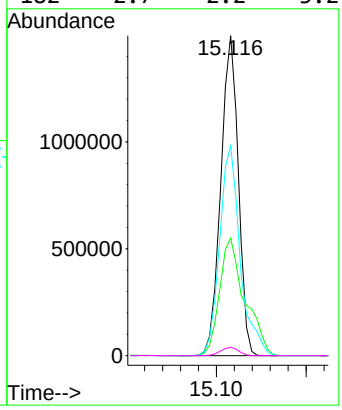




#57
2,4-Dinitrotoluene
Concen: 88.890 ng
RT: 15.116 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP016400.D
Acq: 27 Jul 2023 15:03

Tgt Ion:165 Resp: 202811

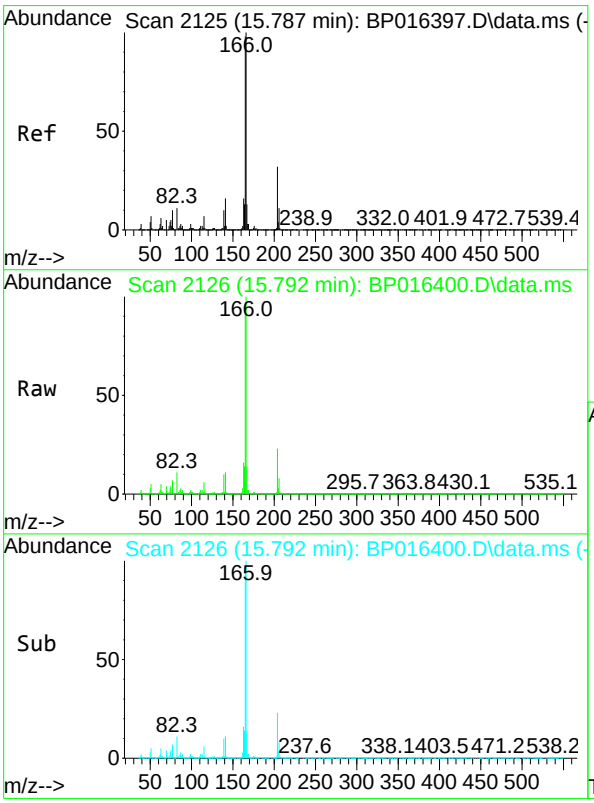
Ion	Ratio	Lower	Upper
165	100		
63	36.8	31.4	47.0
89	65.6	55.8	83.6
182	2.7	2.2	3.2



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

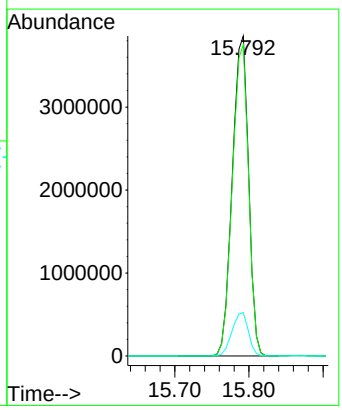
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

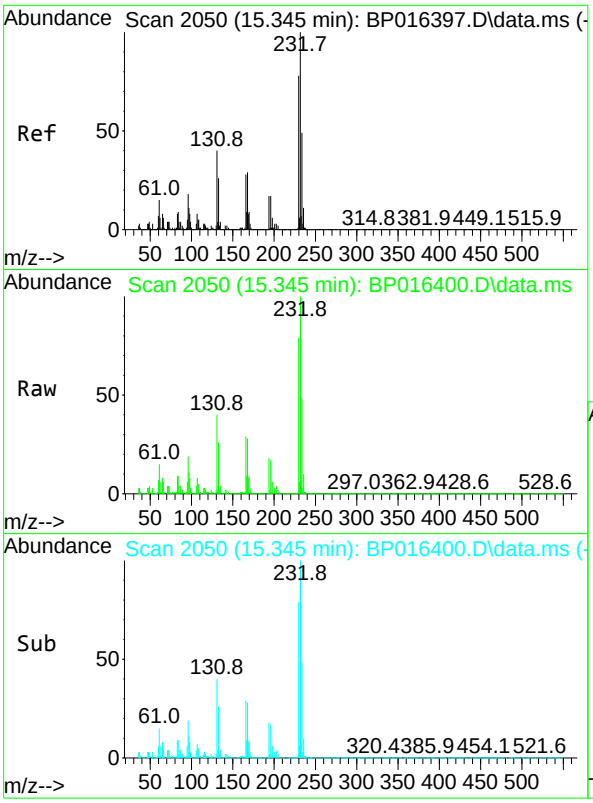


#58
Fluorene
Concen: 72.968 ng
RT: 15.792 min Scan# 2126
Delta R.T. 0.006 min
Lab File: BP016400.D
Acq: 27 Jul 2023 15:03

Tgt Ion:166 Resp: 5850262

Ion	Ratio	Lower	Upper
166	100		
165	97.2	78.0	117.0
167	13.5	10.6	16.0

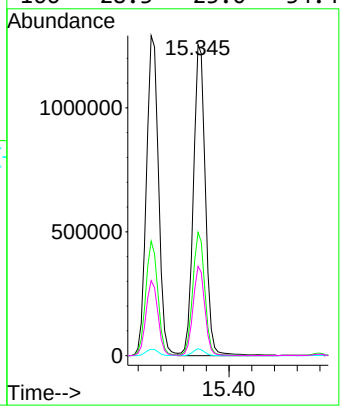




#59
2,3,4,6-Tetrachlorophenol
Concen: 86.766 ng
RT: 15.345 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP016400.D
Acq: 27 Jul 2023 15:03

Tgt Ion:232 Resp: 185165

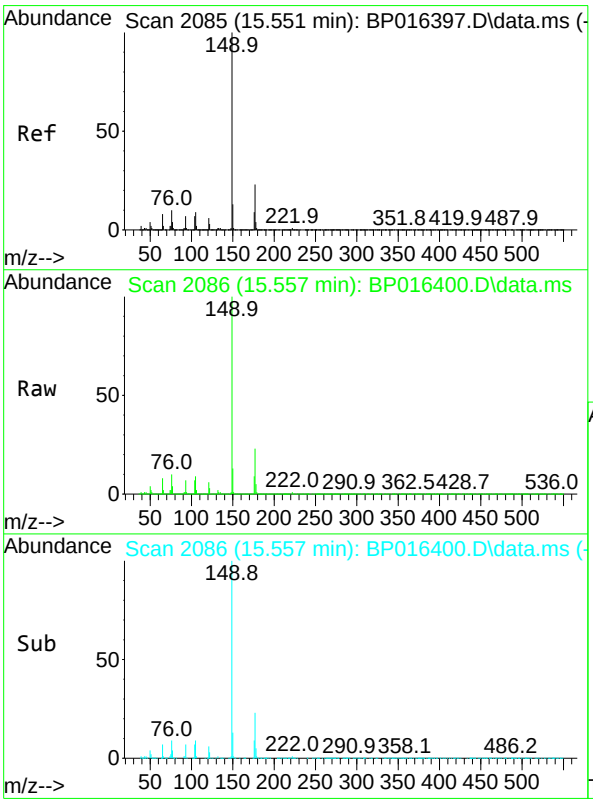
Ion	Ratio	Lower	Upper
232	100		
131	39.5	33.1	49.7
130	2.1	1.8	2.8
166	28.3	23.0	34.4



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

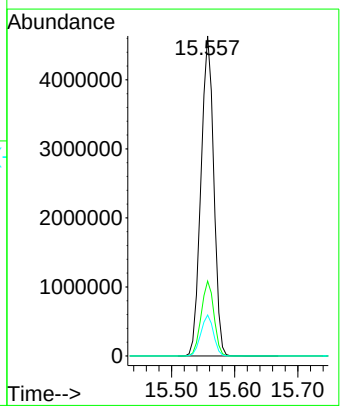
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

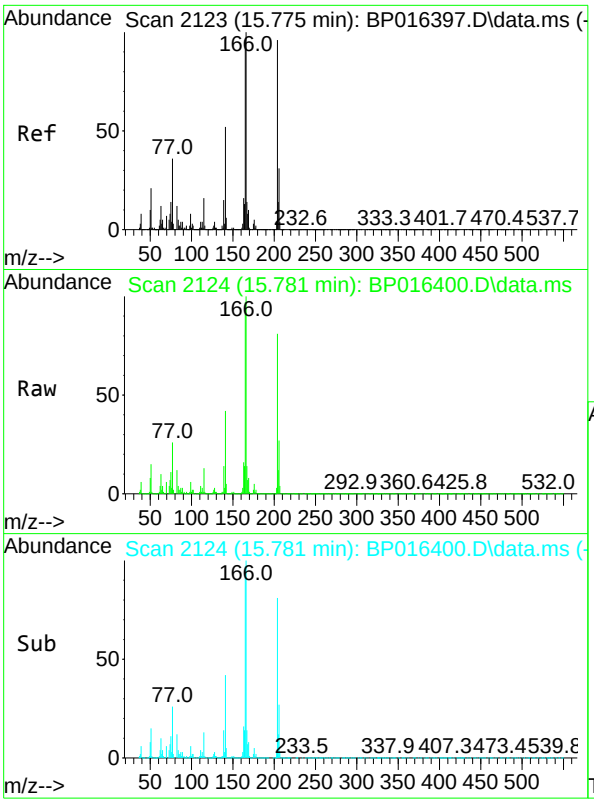


#60
Diethylphthalate
Concen: 76.630 ng
RT: 15.557 min Scan# 2086
Delta R.T. 0.006 min
Lab File: BP016400.D
Acq: 27 Jul 2023 15:03

Tgt Ion:149 Resp: 6507853

Ion	Ratio	Lower	Upper
149	100		
177	23.4	18.6	27.8
150	12.8	10.1	15.1





#61
4-Chlorophenyl-phenylether
Concen: 75.150 ng
RT: 15.781 min Scan# 21
Delta R.T. 0.006 min
Lab File: BP016400.D
Acq: 27 Jul 2023 15:03

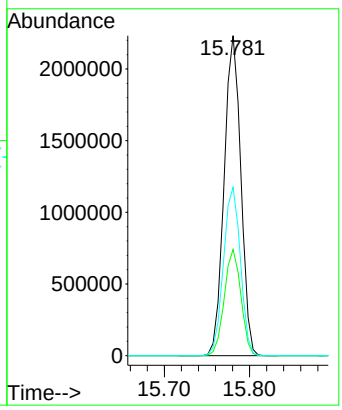
Tgt Ion:204 Resp: 304048

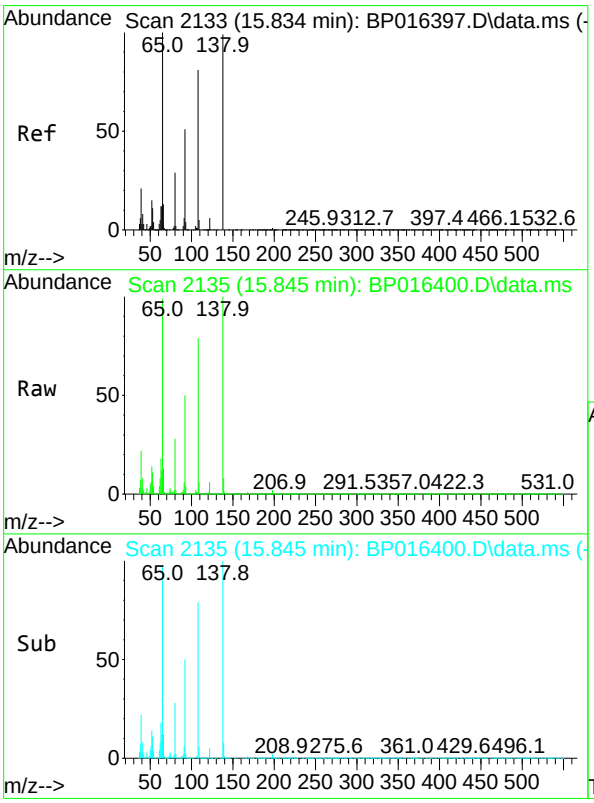
Ion	Ratio	Lower	Upper
204	100		
206	33.2	26.2	39.4
141	52.7	43.4	65.0

Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

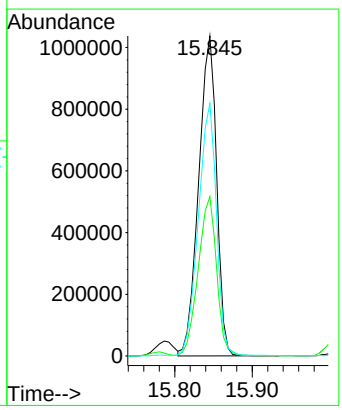


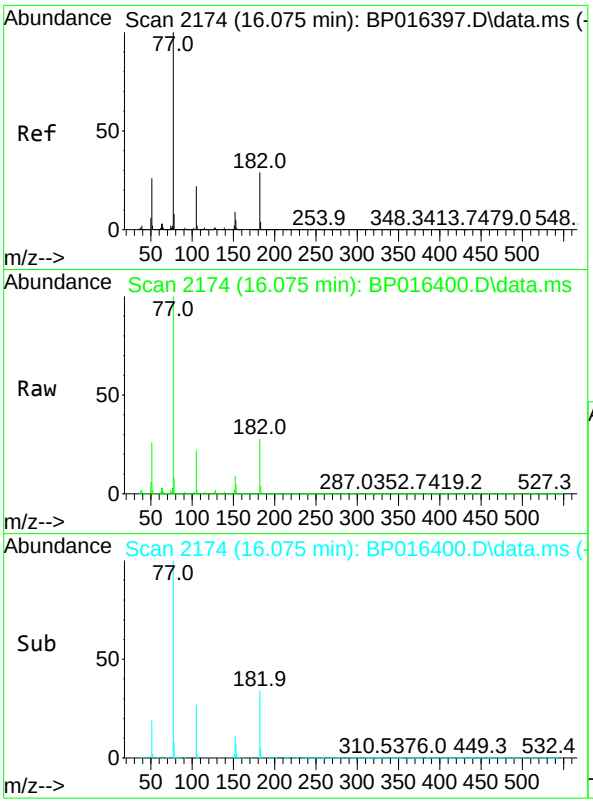


#62
4-Nitroaniline
Concen: 84.770 ng
RT: 15.845 min Scan# 2135
Delta R.T. 0.012 min
Lab File: BP016400.D
Acq: 27 Jul 2023 15:03

Tgt Ion:138 Resp: 1665077

Ion	Ratio	Lower	Upper
138	100		
92	49.8	30.3	70.3
108	78.9	60.1	100.1

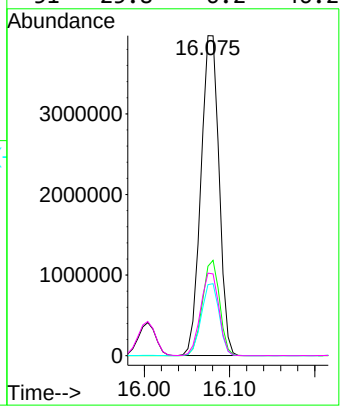




#63
Azobenzene
Concen: 73.061 ng
RT: 16.075 min Scan# 21
Delta R.T. -0.000 min
Lab File: BP016400.D
Acq: 27 Jul 2023 15:03

Tgt Ion: 77 Resp: 585870

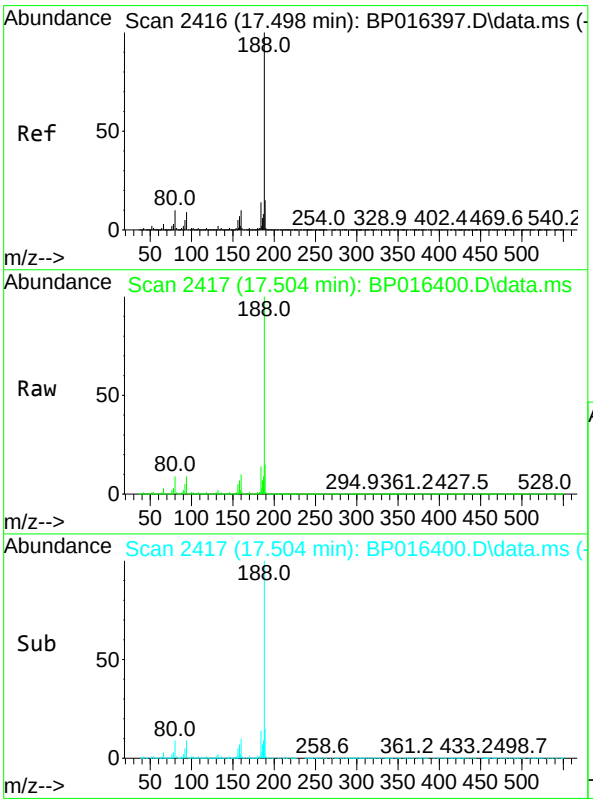
Ion	Ratio	Lower	Upper
77	100		
182	27.9	8.6	48.6
105	22.2	2.4	42.4
51	25.8	6.2	46.2



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

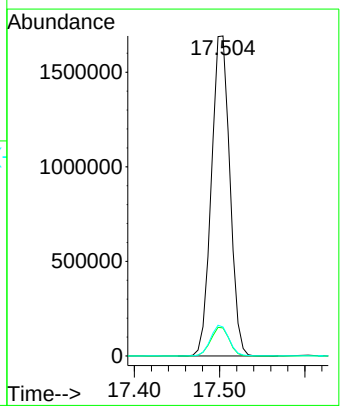
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

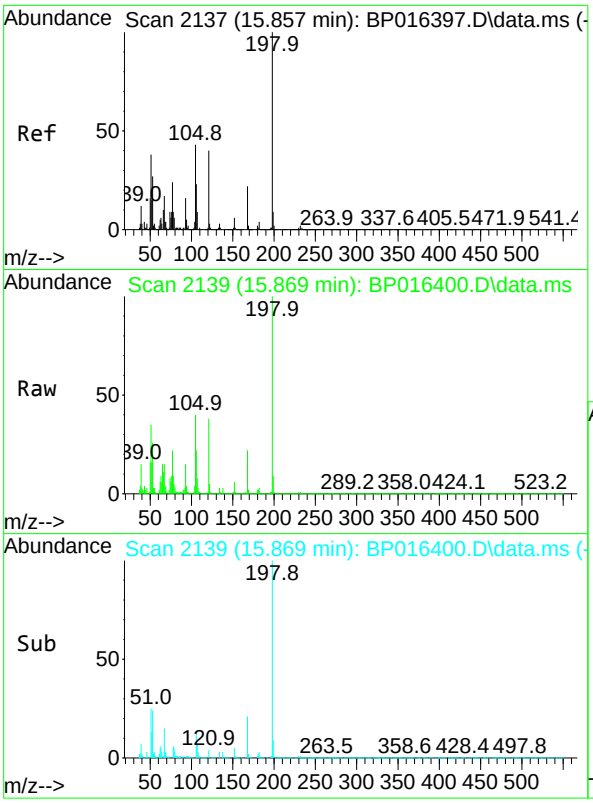


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.504 min Scan# 2417
Delta R.T. 0.006 min
Lab File: BP016400.D
Acq: 27 Jul 2023 15:03

Tgt Ion:188 Resp: 2545819

Ion	Ratio	Lower	Upper
188	100		
94	8.7	7.4	11.0
80	9.1	7.8	11.8

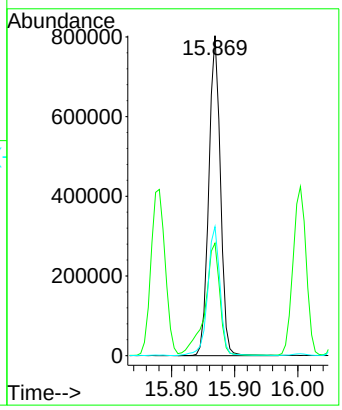




#65
4,6-Dinitro-2-methylphenol
Concen: 80.781 ng
RT: 15.869 min Scan# 21
Delta R.T. 0.012 min
Lab File: BP016400.D
Acq: 27 Jul 2023 15:03

Tgt Ion:198 Resp: 102201

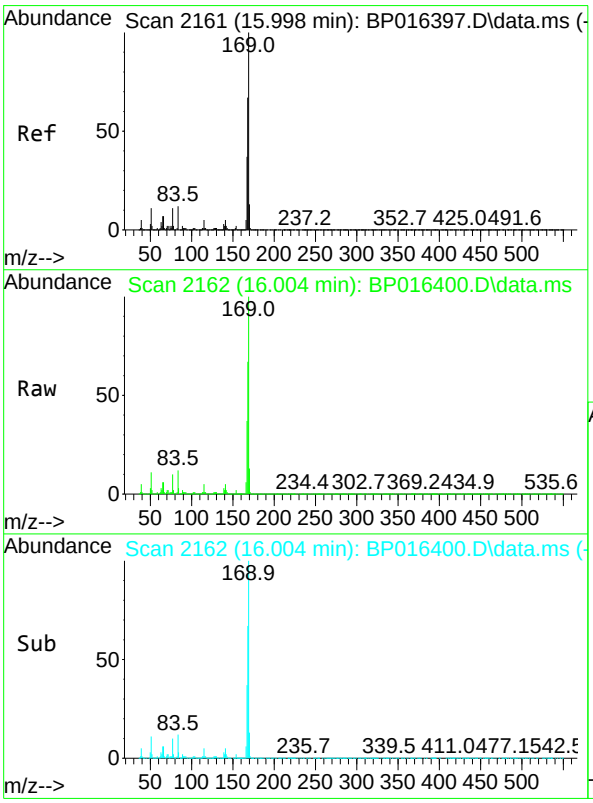
Ion	Ratio	Lower	Upper
198	100		
51	35.1	20.1	60.1
105	40.3	23.1	63.1



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

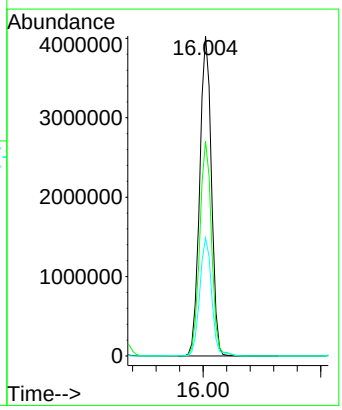
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

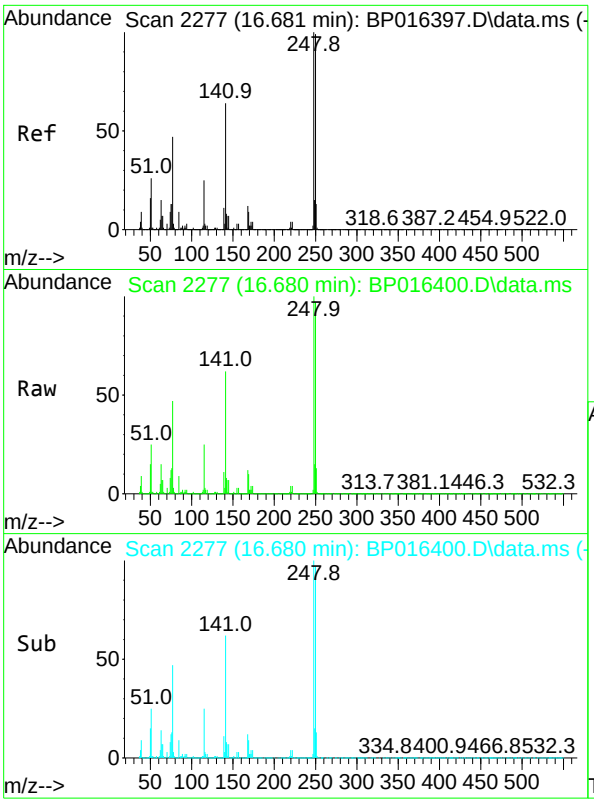


#66
n-Nitrosodiphenylamine
Concen: 73.799 ng
RT: 16.004 min Scan# 2162
Delta R.T. 0.006 min
Lab File: BP016400.D
Acq: 27 Jul 2023 15:03

Tgt Ion:169 Resp: 5536969

Ion	Ratio	Lower	Upper
169	100		
168	67.1	53.6	80.4
167	36.9	29.2	43.8

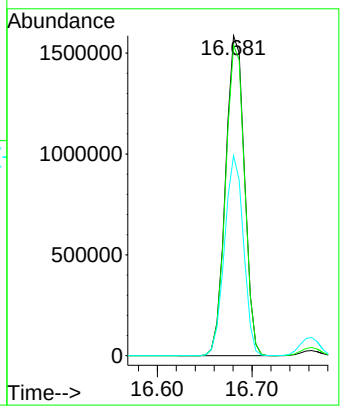




#67
4-Bromophenyl-phenylether
Concen: 81.505 ng
RT: 16.680 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP016400.D
Acq: 27 Jul 2023 15:03

Tgt Ion:248 Resp: 219714

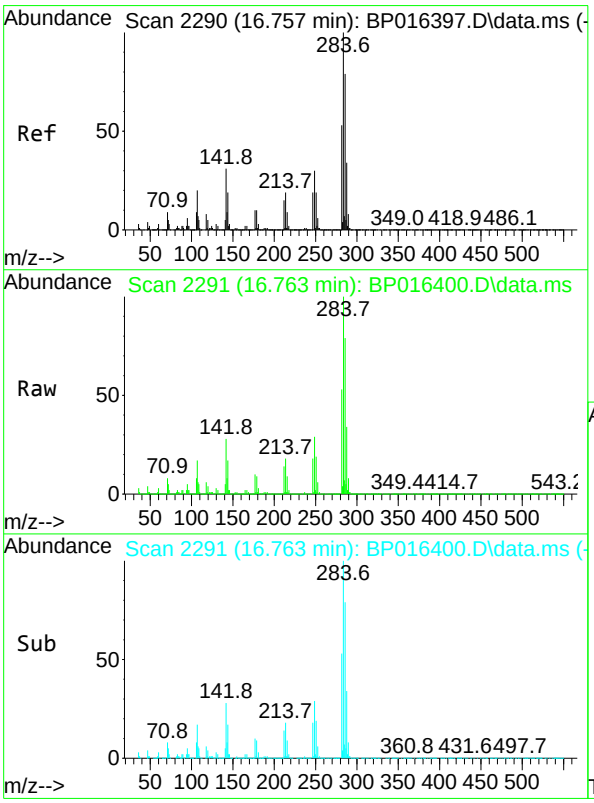
Ion	Ratio	Lower	Upper
248	100		
250	97.1	78.9	118.3
141	62.5	51.0	76.4



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

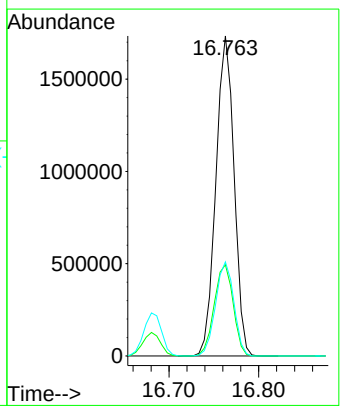
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

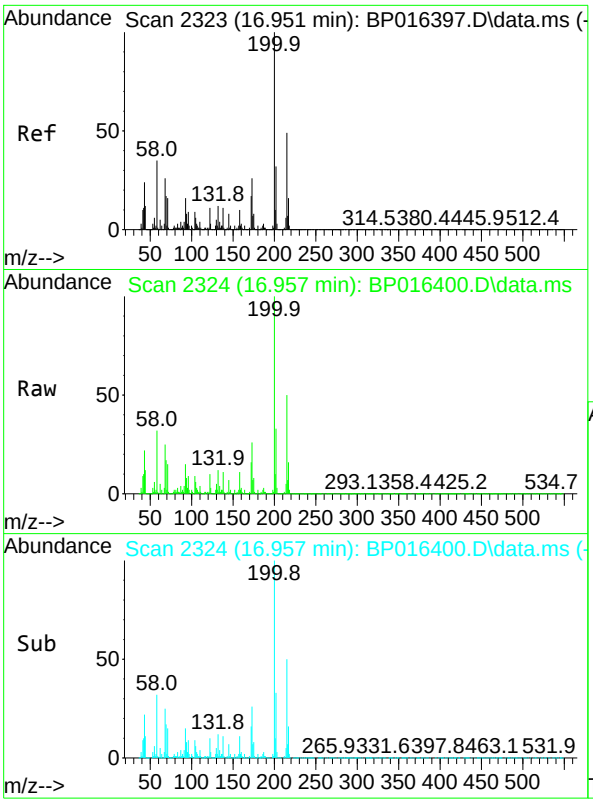


#68
Hexachlorobenzene
Concen: 81.211 ng
RT: 16.763 min Scan# 2291
Delta R.T. 0.006 min
Lab File: BP016400.D
Acq: 27 Jul 2023 15:03

Tgt Ion:284 Resp: 2441345

Ion	Ratio	Lower	Upper
284	100		
142	28.5	25.2	37.8
249	31.7	26.0	39.0

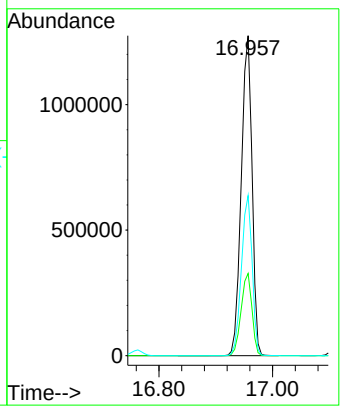




#69
Atrazine
Concen: 75.004 ng
RT: 16.957 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP016400.D
Acq: 27 Jul 2023 15:03

Tgt Ion:200 Resp: 167355

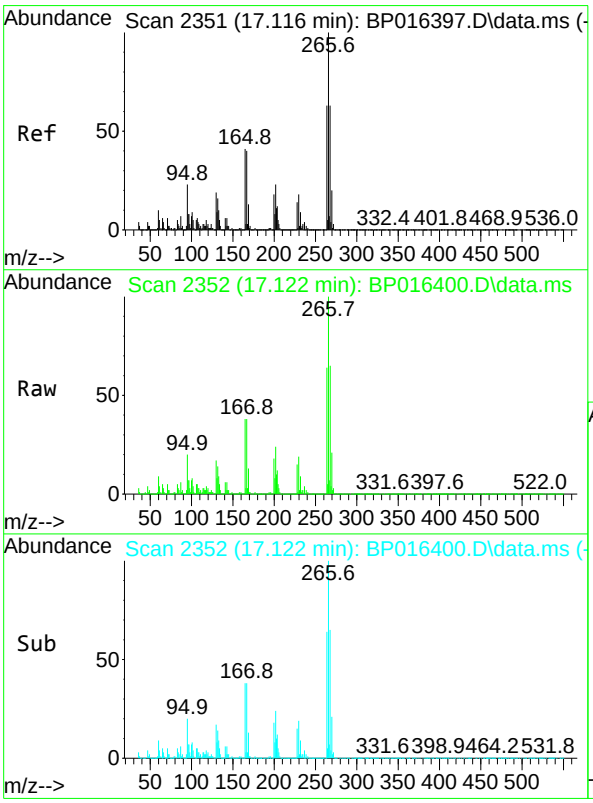
Ion	Ratio	Lower	Upper
200	100		
173	25.7	5.8	45.8
215	50.1	29.2	69.2



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

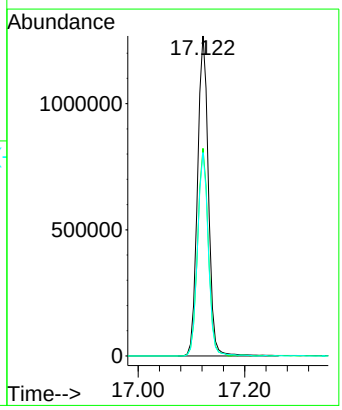
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

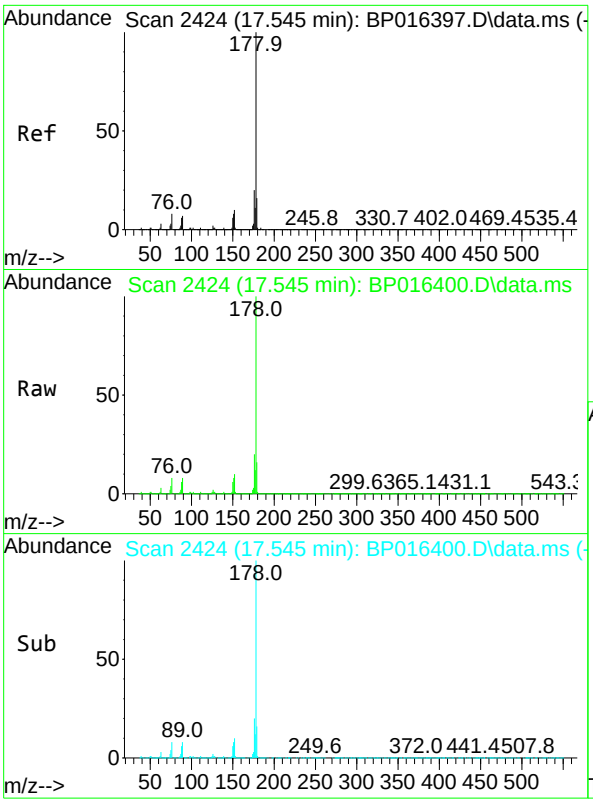


#70
Pentachlorophenol
Concen: 86.762 ng
RT: 17.122 min Scan# 2352
Delta R.T. 0.006 min
Lab File: BP016400.D
Acq: 27 Jul 2023 15:03

Tgt Ion:266 Resp: 1804942

Ion	Ratio	Lower	Upper
266	100		
268	69.4	53.9	80.9
264	68.6	54.9	82.3

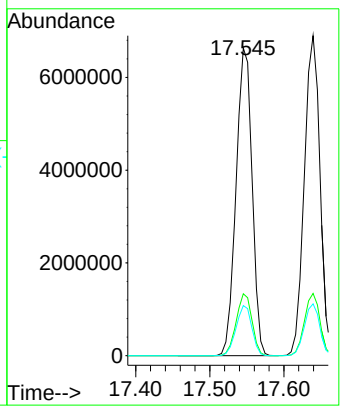




#71
Phenanthrene
Concen: 73.753 ng
RT: 17.545 min Scan# 24
Delta R.T. -0.000 min
Lab File: BP016400.D
Acq: 27 Jul 2023 15:03

Tgt Ion:178 Resp: 997001

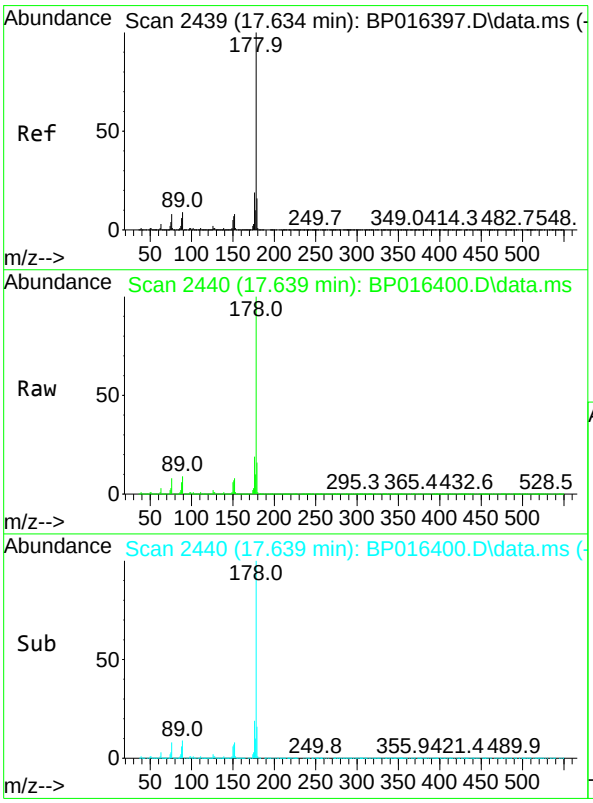
Ion	Ratio	Lower	Upper
178	100		
176	20.1	15.8	23.8
179	16.3	12.4	18.6



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

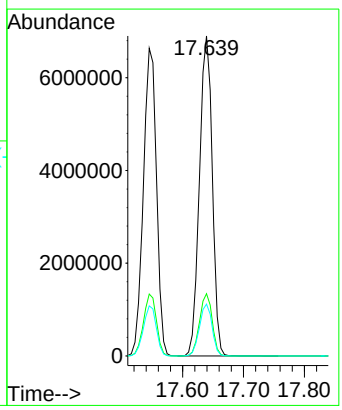
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

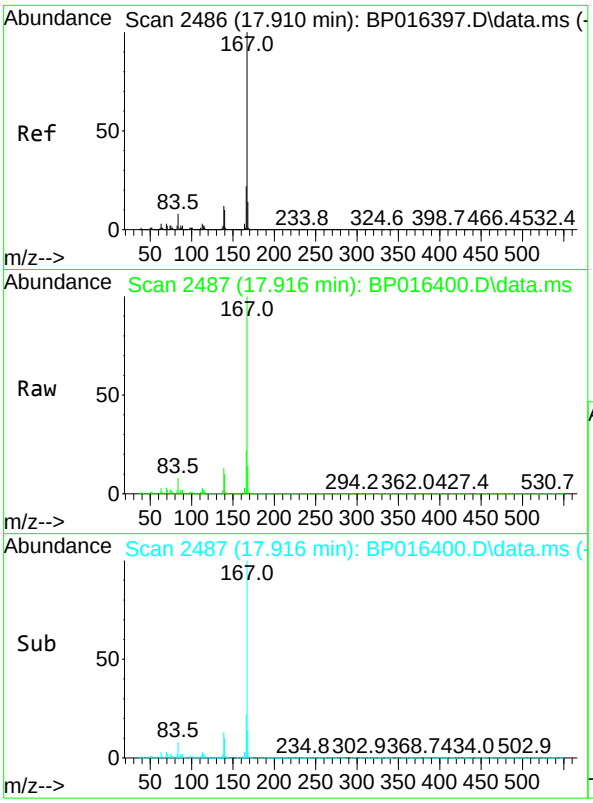


#72
Anthracene
Concen: 74.431 ng
RT: 17.639 min Scan# 2440
Delta R.T. 0.006 min
Lab File: BP016400.D
Acq: 27 Jul 2023 15:03

Tgt Ion:178 Resp:10117451

Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.2	22.8
179	16.2	12.6	19.0





#73
Carbazole
Concen: 74.439 ng
RT: 17.916 min Scan# 24
Delta R.T. 0.006 min
Lab File: BP016400.D
Acq: 27 Jul 2023 15:03

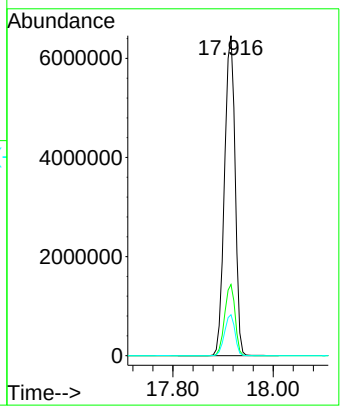
Tgt Ion:167 Resp: 948661

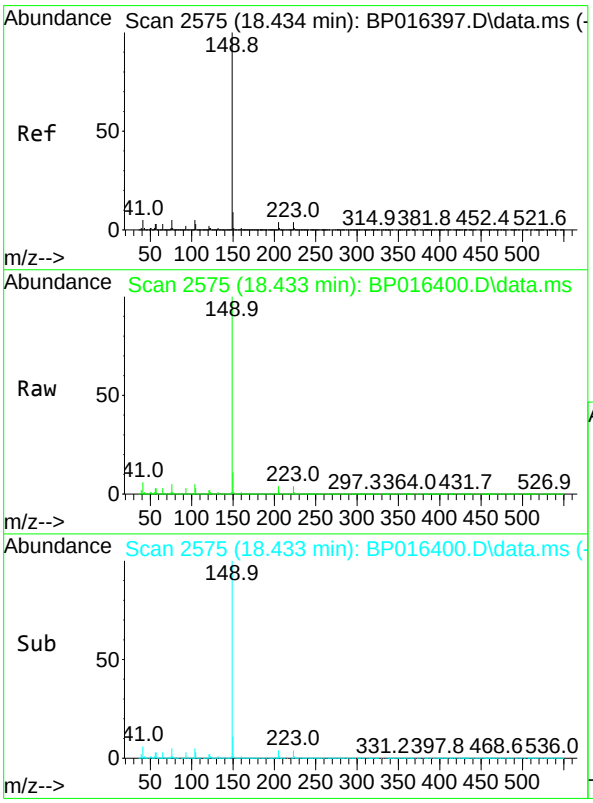
Ion	Ratio	Lower	Upper
167	100		
166	22.2	17.2	25.8
139	12.8	9.9	14.9

Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

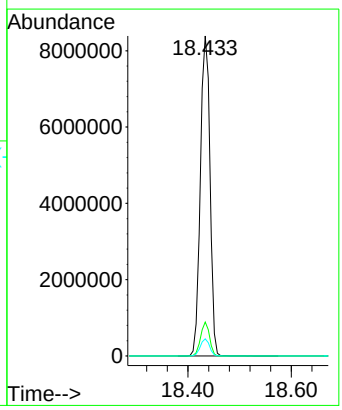


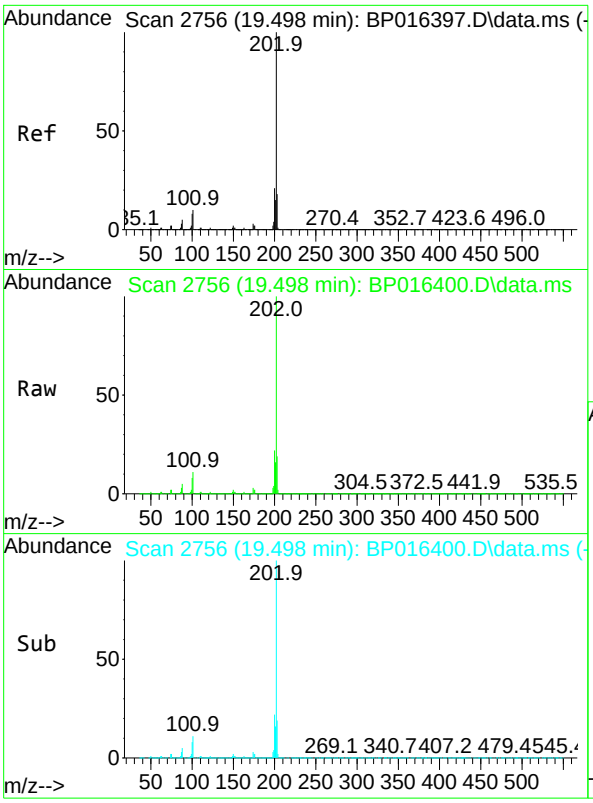


#74
Di-n-butylphthalate
Concen: 73.419 ng
RT: 18.433 min Scan# 2575
Delta R.T. -0.000 min
Lab File: BP016400.D
Acq: 27 Jul 2023 15:03

Tgt Ion:149 Resp:10824866

Ion	Ratio	Lower	Upper
149	100		
150	10.6	7.4	11.2
104	5.4	3.8	5.8

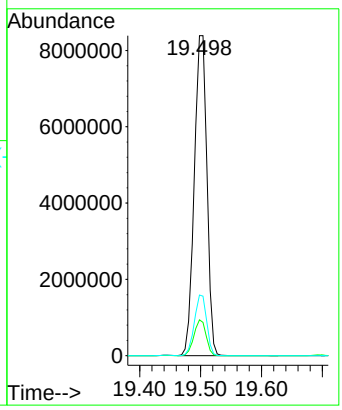




#75
Fluoranthene
Concen: 76.304 ng
RT: 19.498 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP016400.D
Acq: 27 Jul 2023 15:03

Tgt Ion:202 Resp:1209004

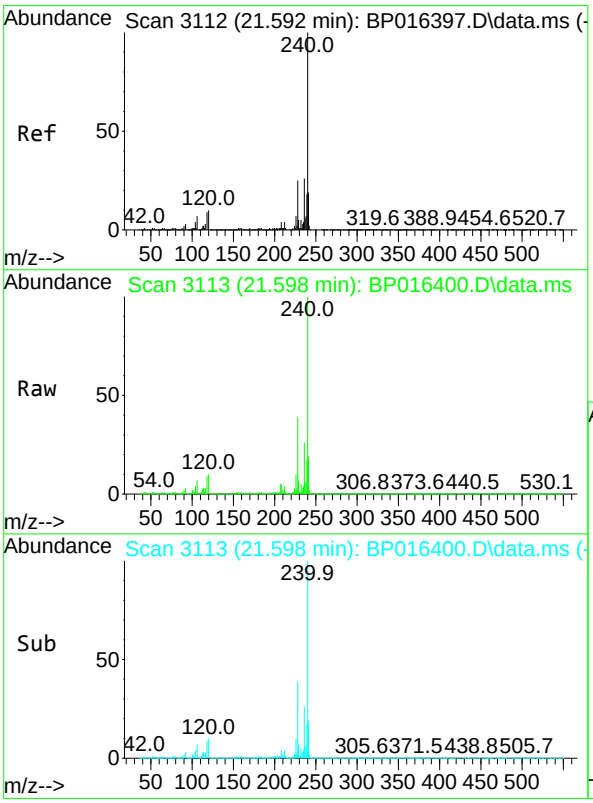
Ion	Ratio	Lower	Upper
202	100		
101	11.2	0.0	30.2
203	19.0	0.0	37.9



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

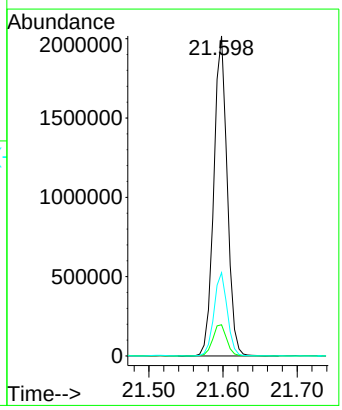
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

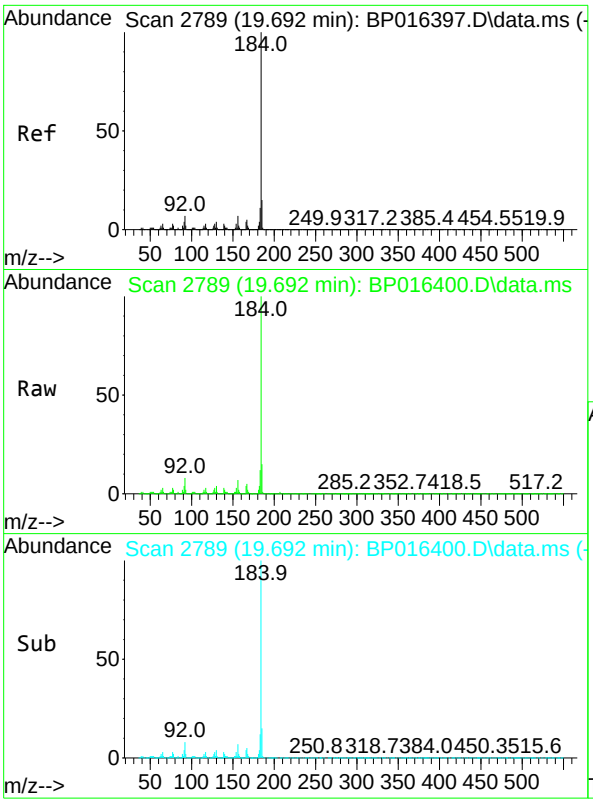


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.598 min Scan# 3113
Delta R.T. 0.006 min
Lab File: BP016400.D
Acq: 27 Jul 2023 15:03

Tgt Ion:240 Resp: 2531418

Ion	Ratio	Lower	Upper
240	100		
120	9.8	7.9	11.9
236	26.0	21.1	31.7

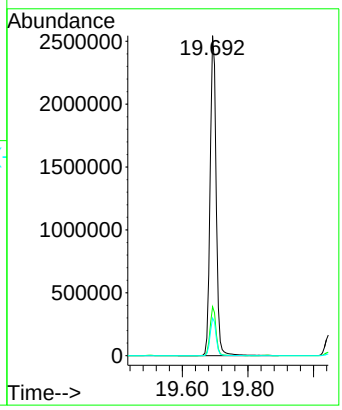




#77
Benzidine
Concen: 74.610 ng
RT: 19.692 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP016400.D
Acq: 27 Jul 2023 15:03

Tgt Ion:184 Resp: 327454

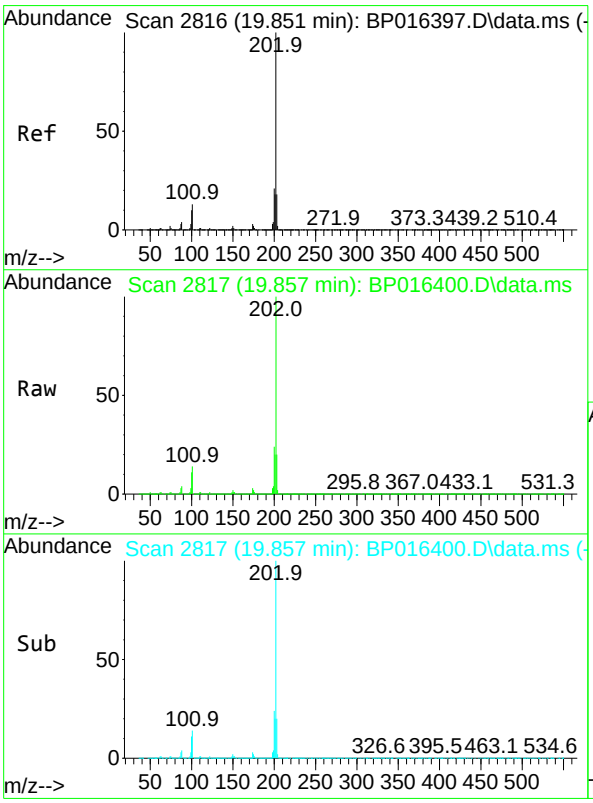
Ion	Ratio	Lower	Upper
184	100		
185	15.3	12.0	18.0
183	11.7	9.2	13.8



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

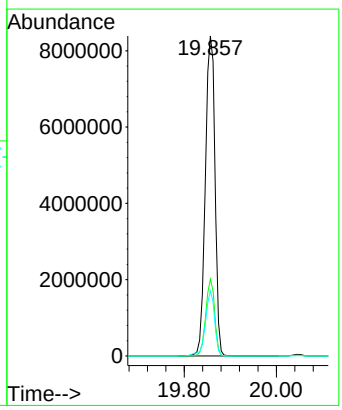
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

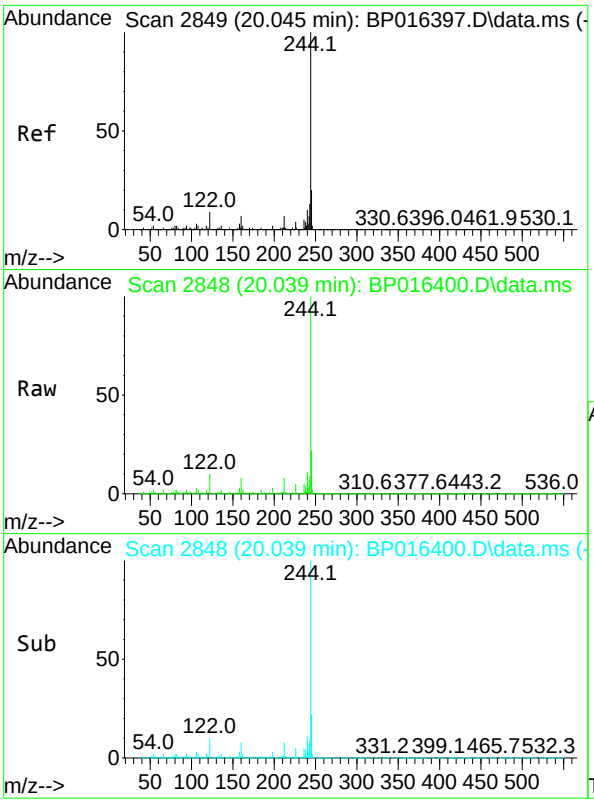


#78
Pyrene
Concen: 72.378 ng
RT: 19.857 min Scan# 2817
Delta R.T. 0.006 min
Lab File: BP016400.D
Acq: 27 Jul 2023 15:03

Tgt Ion:202 Resp:12282191

Ion	Ratio	Lower	Upper
202	100		
200	24.0	17.1	25.7
203	20.3	14.4	21.6

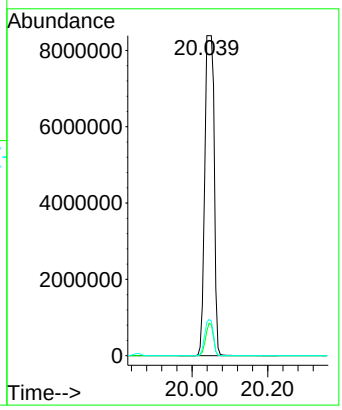




#79
Terphenyl-d14
Concen: 119.093 ng
RT: 20.039 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP016400.D
Acq: 27 Jul 2023 15:03

Tgt Ion:244 Resp:1427154

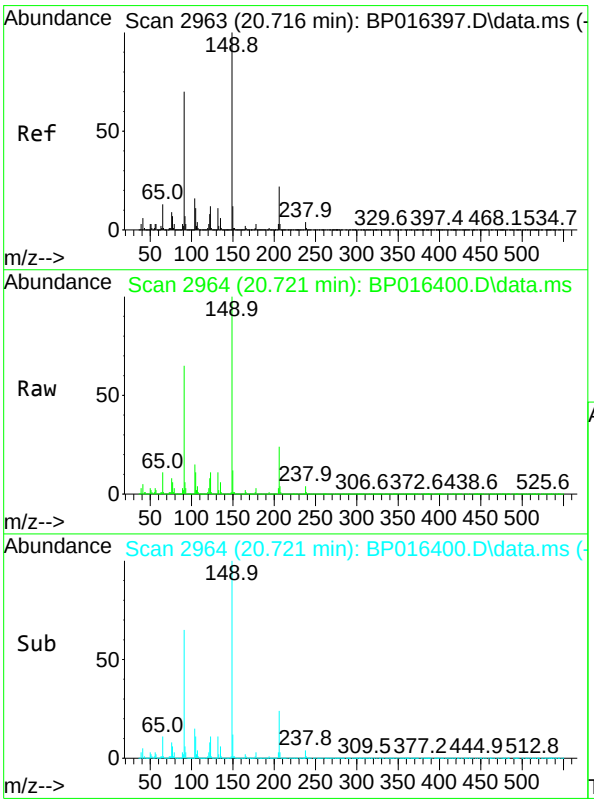
Ion	Ratio	Lower	Upper
244	100		
212	7.7	5.6	8.4
122	10.4	7.4	11.2



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

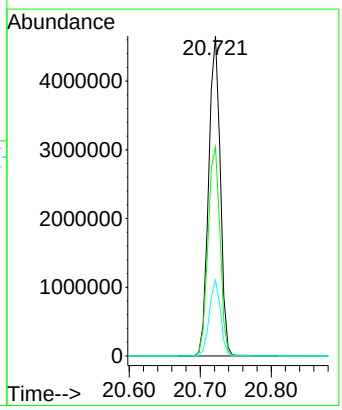
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

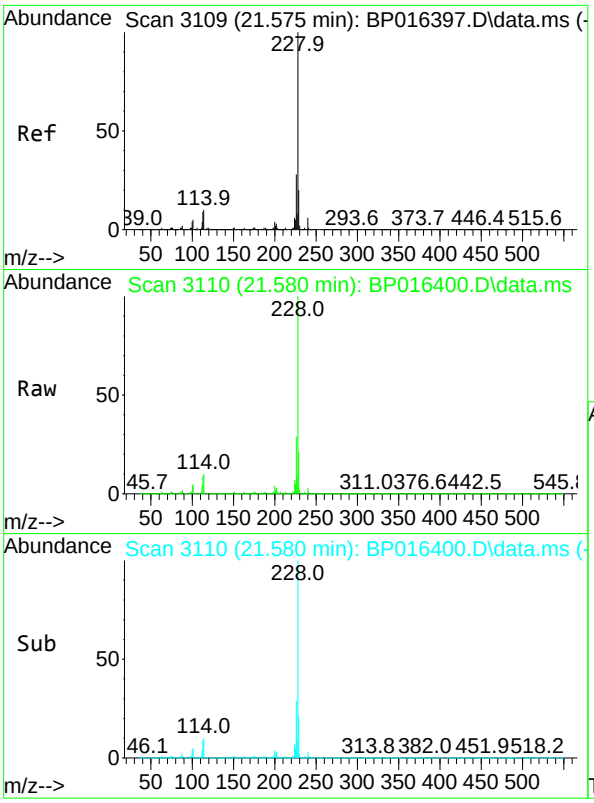


#80
Butylbenzylphthalate
Concen: 79.581 ng
RT: 20.721 min Scan# 2964
Delta R.T. 0.006 min
Lab File: BP016400.D
Acq: 27 Jul 2023 15:03

Tgt Ion:149 Resp: 5305297

Ion	Ratio	Lower	Upper
149	100		
91	65.2	56.1	84.1
206	23.7	17.8	26.6

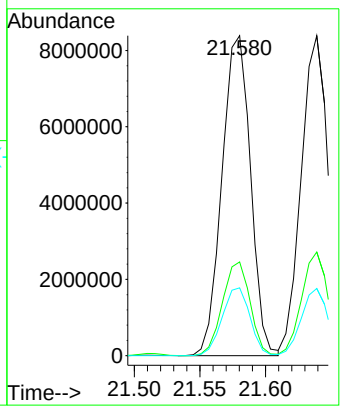




#81
Benzo(a)anthracene
Concen: 74.925 ng
RT: 21.580 min Scan# 3
Delta R.T. 0.006 min
Lab File: BP016400.D
Acq: 27 Jul 2023 15:03

Tgt Ion:228 Resp:1272568

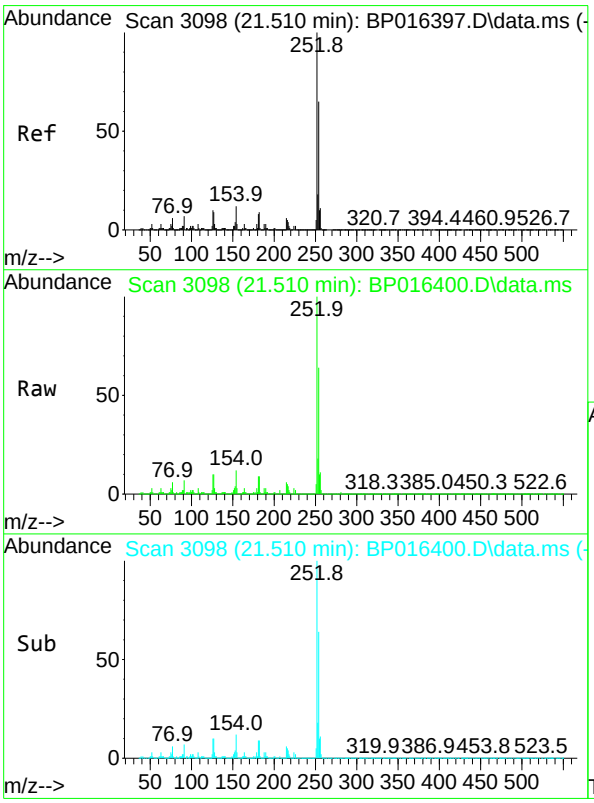
Ion	Ratio	Lower	Upper
228	100		
226	29.3	22.4	33.6
229	21.2	16.2	24.4



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

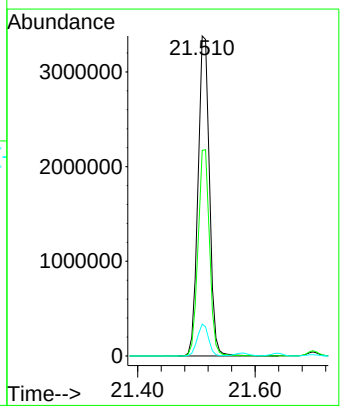
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

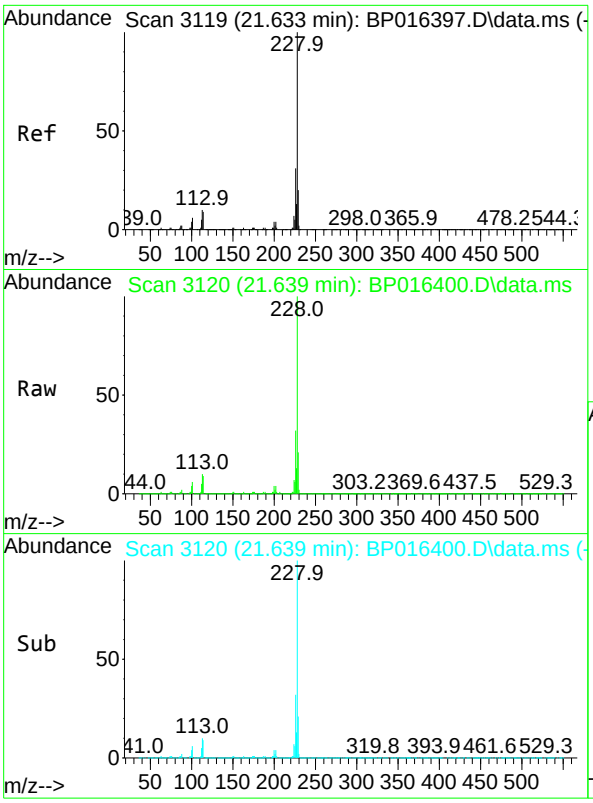


#82
3,3'-Dichlorobenzidine
Concen: 82.040 ng
RT: 21.510 min Scan# 3098
Delta R.T. -0.000 min
Lab File: BP016400.D
Acq: 27 Jul 2023 15:03

Tgt Ion:252 Resp: 4574114

Ion	Ratio	Lower	Upper
252	100		
254	64.3	52.2	78.2
126	10.0	7.8	11.6

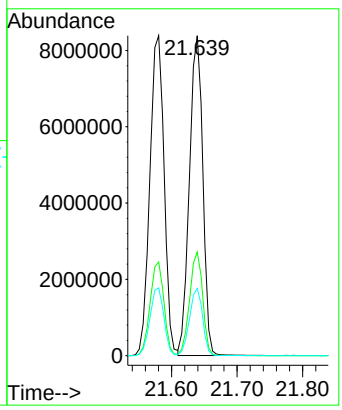




#83
Chrysene
Concen: 73.401 ng
RT: 21.639 min Scan# 3
Delta R.T. 0.006 min
Lab File: BP016400.D
Acq: 27 Jul 2023 15:03

Tgt Ion:228 Resp:1190486

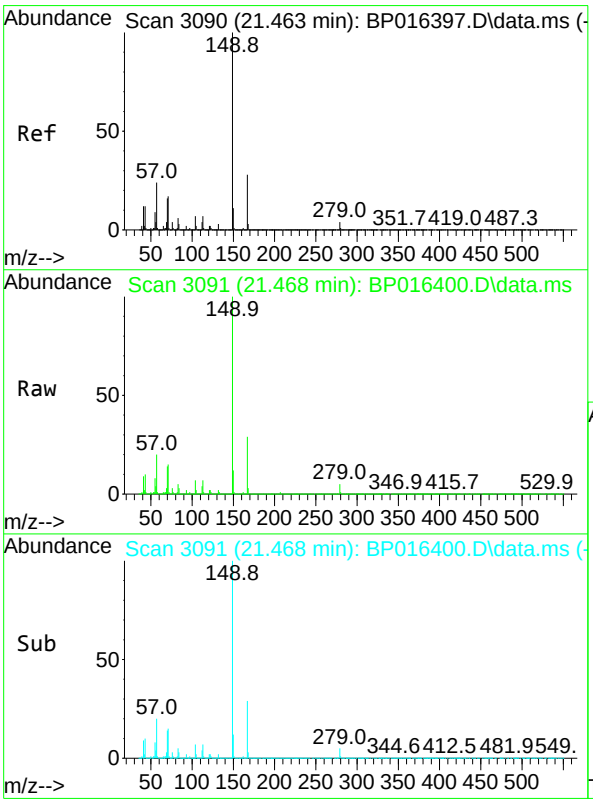
Ion	Ratio	Lower	Upper
228	100		
226	32.4	24.6	37.0
229	21.0	16.0	24.0



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

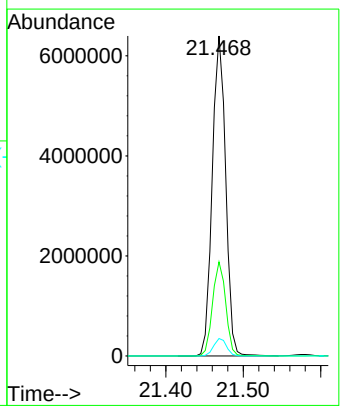
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

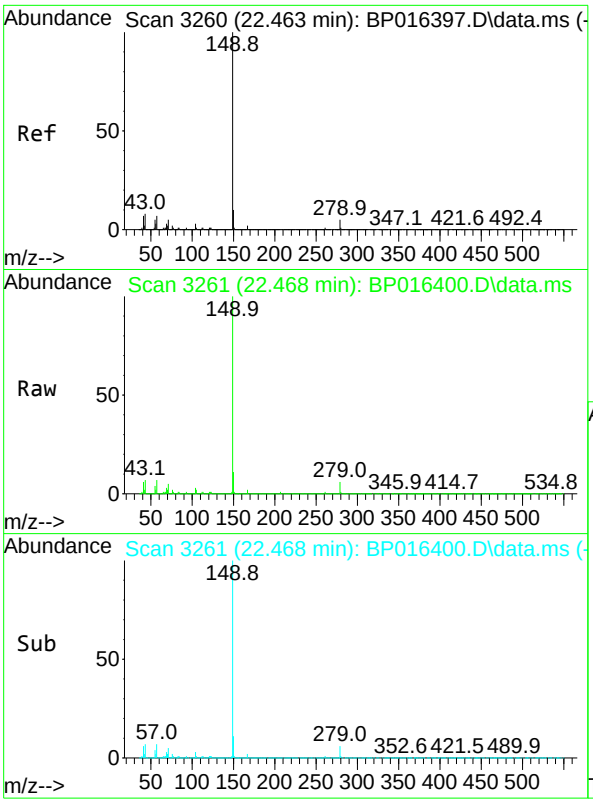


#84
Bis(2-ethylhexyl)phthalate
Concen: 76.738 ng
RT: 21.468 min Scan# 3091
Delta R.T. 0.006 min
Lab File: BP016400.D
Acq: 27 Jul 2023 15:03

Tgt Ion:149 Resp: 7680653

Ion	Ratio	Lower	Upper
149	100		
167	29.4	22.5	33.7
279	5.5	3.6	5.4#

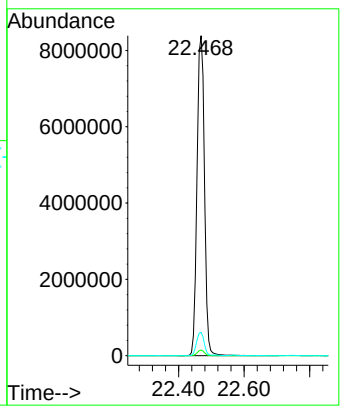




#85
Di-n-octyl phthalate
Concen: 78.877 ng
RT: 22.468 min Scan# 3
Delta R.T. 0.006 min
Lab File: BP016400.D
Acq: 27 Jul 2023 15:03

Tgt Ion:149 Resp:1327763

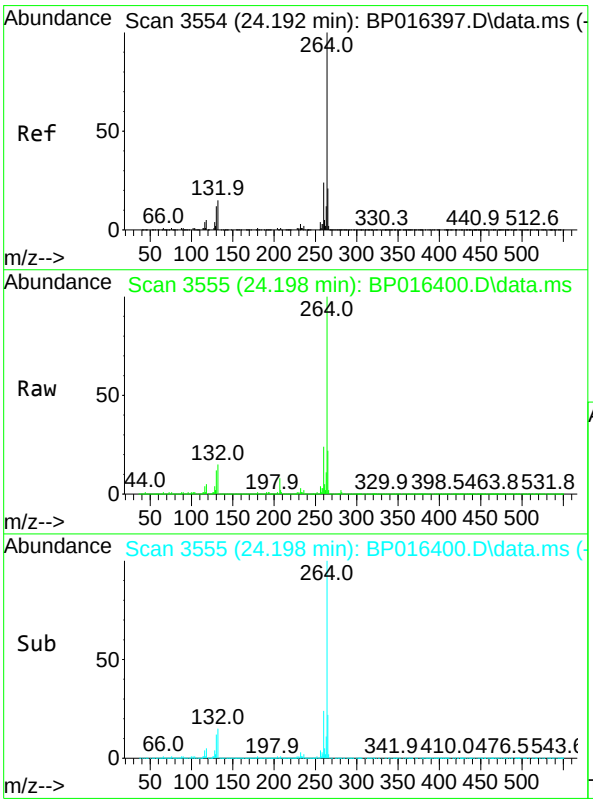
Ion	Ratio	Lower	Upper
149	100		
167	1.7	1.3	1.9
43	7.4	6.6	9.8



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

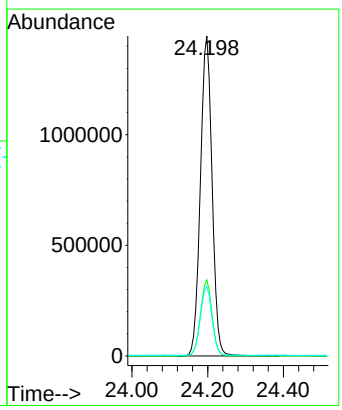
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

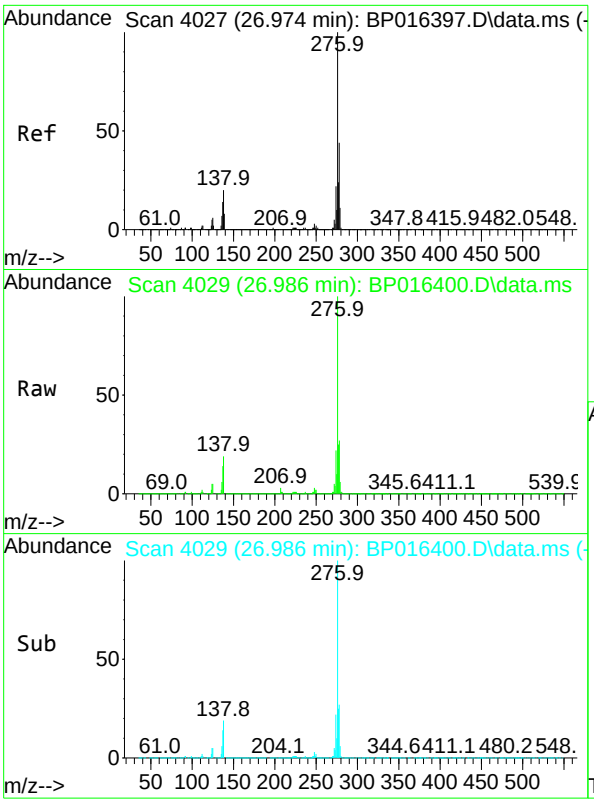


#86
Perylene-d12
Concen: 20.000 ng
RT: 24.198 min Scan# 3555
Delta R.T. 0.006 min
Lab File: BP016400.D
Acq: 27 Jul 2023 15:03

Tgt Ion:264 Resp: 3094883

Ion	Ratio	Lower	Upper
264	100		
260	23.8	19.3	28.9
265	21.7	17.4	26.0

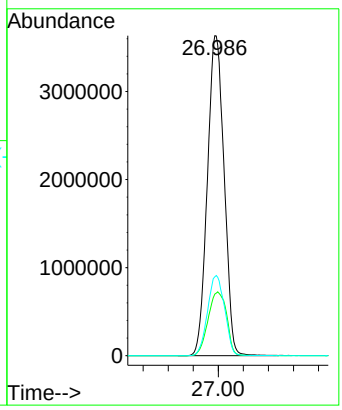




#87
Indeno(1,2,3-cd)pyrene
Concen: 80.706 ng
RT: 26.986 min Scan# 4
Delta R.T. 0.012 min
Lab File: BP016400.D
Acq: 27 Jul 2023 15:03

Tgt Ion:276 Resp:1683947

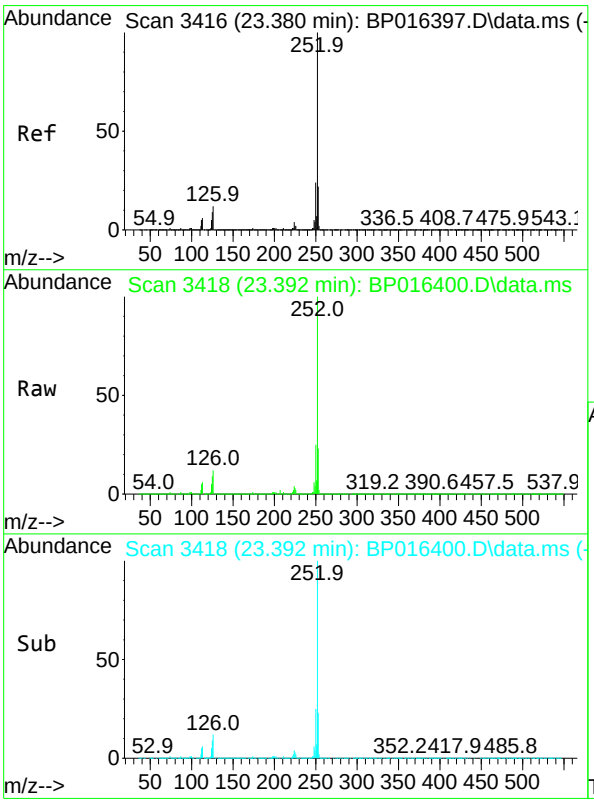
Ion	Ratio	Lower	Upper
276	100		
138	22.1	18.4	27.6
277	25.6	20.4	30.6



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

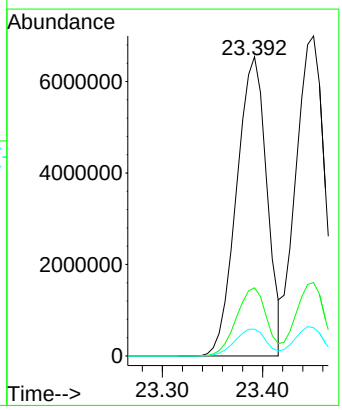
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

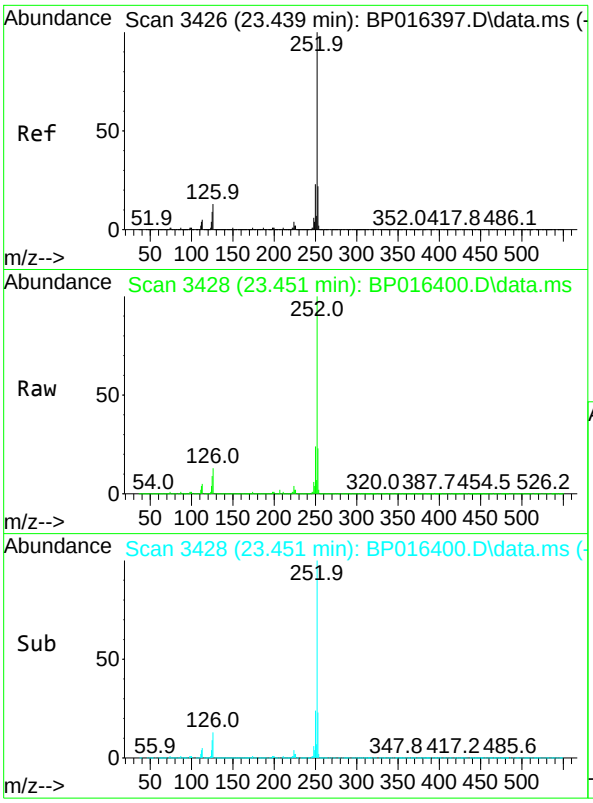


#88
Benzo(b)fluoranthene
Concen: 76.444 ng
RT: 23.392 min Scan# 3418
Delta R.T. 0.012 min
Lab File: BP016400.D
Acq: 27 Jul 2023 15:03

Tgt Ion:252 Resp:13712779

Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.8	26.8
125	9.0	7.4	11.2

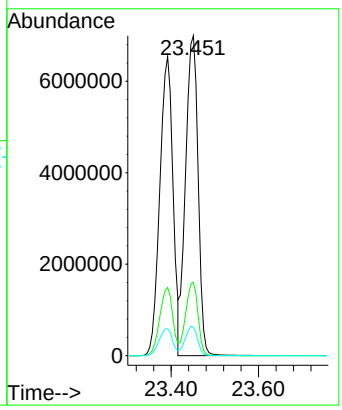




#89
Benzo(k)fluoranthene
Concen: 76.052 ng
RT: 23.451 min Scan# 3
Delta R.T. 0.012 min
Lab File: BP016400.D
Acq: 27 Jul 2023 15:03

Tgt Ion:252 Resp:1387582

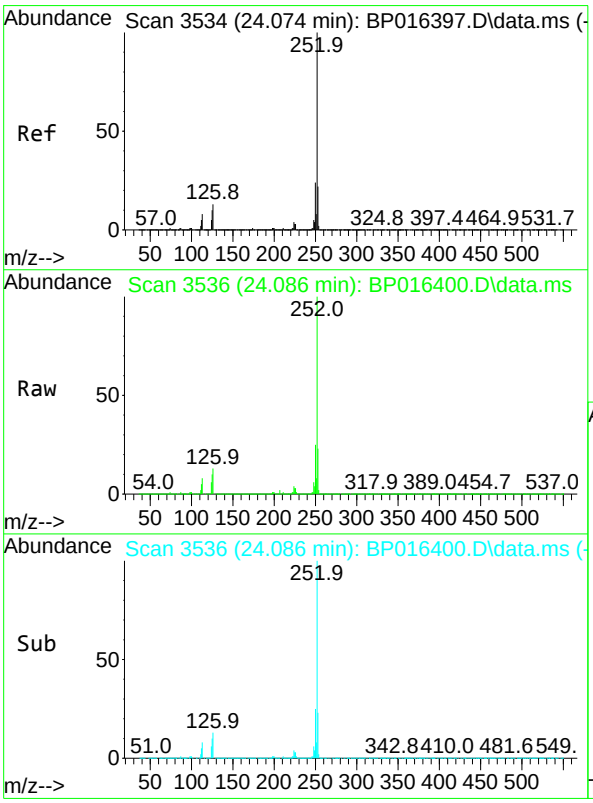
Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.8	26.8
125	8.8	7.1	10.7



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

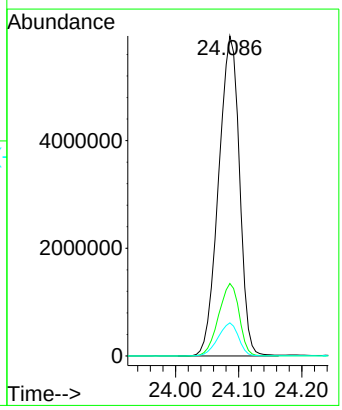
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023

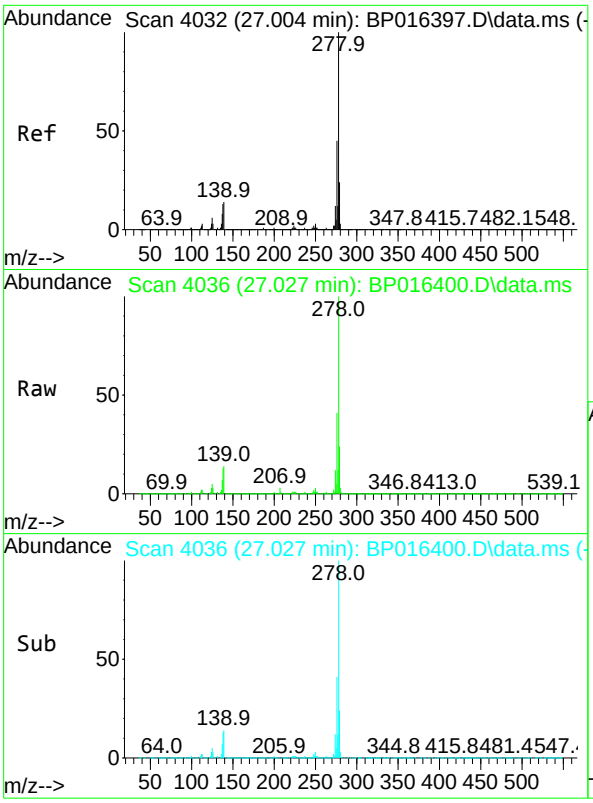


#90
Benzo(a)pyrene
Concen: 78.423 ng
RT: 24.086 min Scan# 3536
Delta R.T. 0.012 min
Lab File: BP016400.D
Acq: 27 Jul 2023 15:03

Tgt Ion:252 Resp:13627382

Ion	Ratio	Lower	Upper
252	100		
253	22.7	17.8	26.6
125	10.3	8.3	12.5

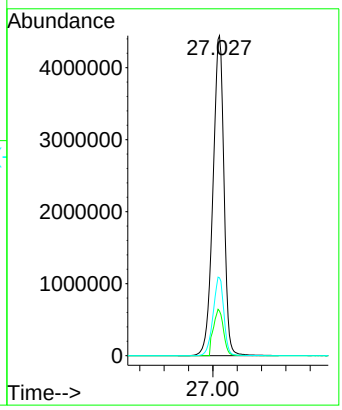




#91
Dibenzo(a,h)anthracene
Concen: 79.788 ng
RT: 27.027 min Scan# 4
Delta R.T. 0.023 min
Lab File: BP016400.D
Acq: 27 Jul 2023 15:03

Tgt Ion:278 Resp:1388345

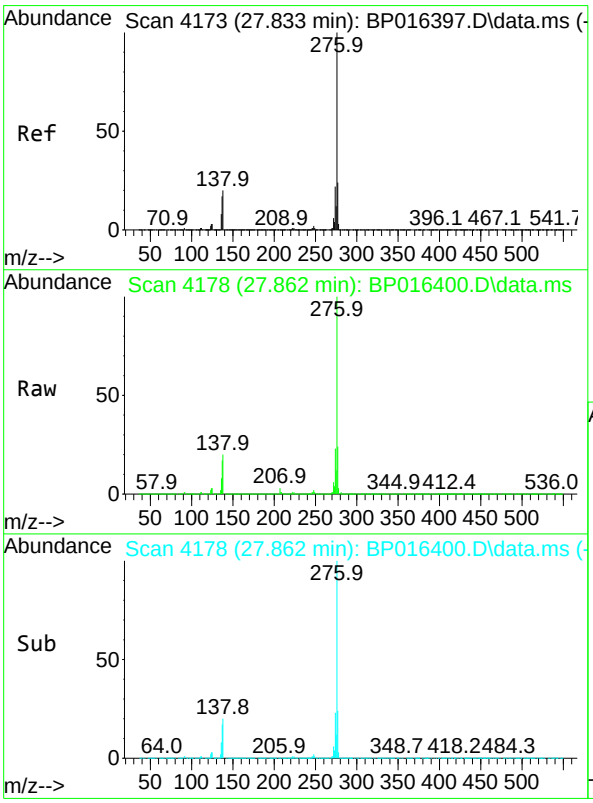
Ion	Ratio	Lower	Upper
278	100		
139	14.0	11.6	17.4
279	24.4	19.0	28.6



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

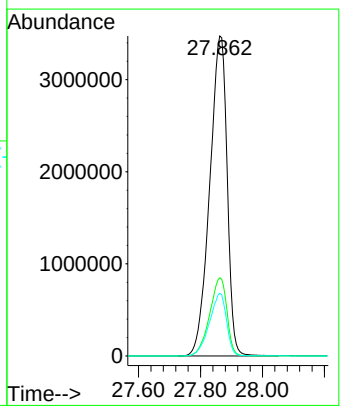
Reviewed By :Yogesh Patel 07/28/2023
Supervised By :mohammad ahmed 07/28/2023



#92
Benzo(g,h,i)perylene
Concen: 80.818 ng
RT: 27.862 min Scan# 4178
Delta R.T. 0.029 min
Lab File: BP016400.D
Acq: 27 Jul 2023 15:03

Tgt Ion:276 Resp:13551755

Ion	Ratio	Lower	Upper
276	100		
277	24.5	19.2	28.8
138	19.5	16.1	24.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP072723\
Data File : BP016401.D
Acq On : 27 Jul 2023 15:38
Operator : MA/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
ICVBP072723

Quant Time: Jul 28 01:50:34 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP072723.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 28 01:48:25 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.093	152	516991	20.000	ng	0.00
21) Naphthalene-d8	10.928	136	1970597	20.000	ng	0.00
39) Acenaphthene-d10	14.740	164	1197271	20.000	ng	0.00
64) Phenanthrene-d10	17.498	188	2650032	20.000	ng	0.00
76) Chrysene-d12	21.592	240	2549162	20.000	ng	0.00
86) Perylene-d12	24.192	264	2736722	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.605	112	2552831	80.557	ng	0.00
7) Phenol-d6	7.228	99	3343438	76.973	ng	0.00
23) Nitrobenzene-d5	9.293	82	2859056	81.217	ng	0.00
42) 2,4,6-Tribromophenol	16.228	330	1553600	88.205	ng	0.00
45) 2-Fluorobiphenyl	13.363	172	6790480	81.313	ng	0.00
79) Terphenyl-d14	20.045	244	10349584	85.764	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.464	88	492647	39.860	ng	99
3) Pyridine	3.875	79	1426162	38.603	ng	99
4) n-Nitrosodimethylamine	3.805	42	532845	38.253	ng	99
6) Aniline	7.422	93	2049370	38.198	ng	99
8) 2-Chlorophenol	7.646	128	1316273	39.615	ng	99
9) Benzaldehyde	7.246	77	799936	39.105	ng	98
10) Phenol	7.258	94	1613888	38.260	ng	99
11) bis(2-Chloroethyl)ether	7.522	93	1303776	38.023	ng	99
12) 1,3-Dichlorobenzene	7.975	146	1433781	40.196	ng	100
13) 1,4-Dichlorobenzene	8.128	146	1443503	39.895	ng	99
14) 1,2-Dichlorobenzene	8.446	146	1375893	39.494	ng	100
15) Benzyl Alcohol	8.340	79	1127417	37.992	ng	99
16) 2,2'-oxybis(1-Chloropr...	8.628	45	1421519	36.555	ng	99
17) 2-Methylphenol	8.522	107	1168772	38.446	ng	99
18) Hexachloroethane	9.169	117	507846	39.349	ng	99
19) n-Nitroso-di-n-propyla...	8.916	70	996007	36.602	ng	99
20) 3+4-Methylphenols	8.857	107	1581258	38.299	ng	99
22) Acetophenone	8.940	105	1968332	39.561	ng	100
24) Nitrobenzene	9.334	77	1453949	40.212	ng	100
25) Isophorone	9.846	82	2788057	39.229	ng	100
26) 2-Nitrophenol	10.040	139	637639	41.378	ng	99
27) 2,4-Dimethylphenol	10.075	122	1279490	40.241	ng	97
28) bis(2-Chloroethoxy)met...	10.334	93	1699423	39.036	ng	99
29) 2,4-Dichlorophenol	10.557	162	1253062	42.110	ng	99
30) 1,2,4-Trichlorobenzene	10.775	180	1349301	41.865	ng	100
31) Naphthalene	10.975	128	4116775	39.939	ng	99
32) Benzoic acid	10.199	122	818279	40.374	ng	96
33) 4-Chloroaniline	11.099	127	1846393	39.711	ng	100
34) Hexachlorobutadiene	11.216	225	827166	43.348	ng	99
35) Caprolactam	11.916	113	424470	39.038	ng	96
36) 4-Chloro-3-methylphenol	12.187	107	1320939	39.936	ng	100
37) 2-Methylnaphthalene	12.575	142	2993150	39.972	ng	99
38) 1-Methylnaphthalene	12.793	142	2787268	39.703	ng	99
40) 1,2,4,5-Tetrachloroben...	12.916	216	1552295	42.664	ng	100
41) Hexachlorocyclopentadiene	12.875	237	838455	45.884	ng	100
43) 2,4,6-Trichlorophenol	13.163	196	1012684	43.378	ng	100

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP072723\
Data File : BP016401.D
Acq On : 27 Jul 2023 15:38
Operator : MA/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
ICVBP072723

Quant Time: Jul 28 01:50:34 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP072723.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 28 01:48:25 2023
Response via : Initial Calibration

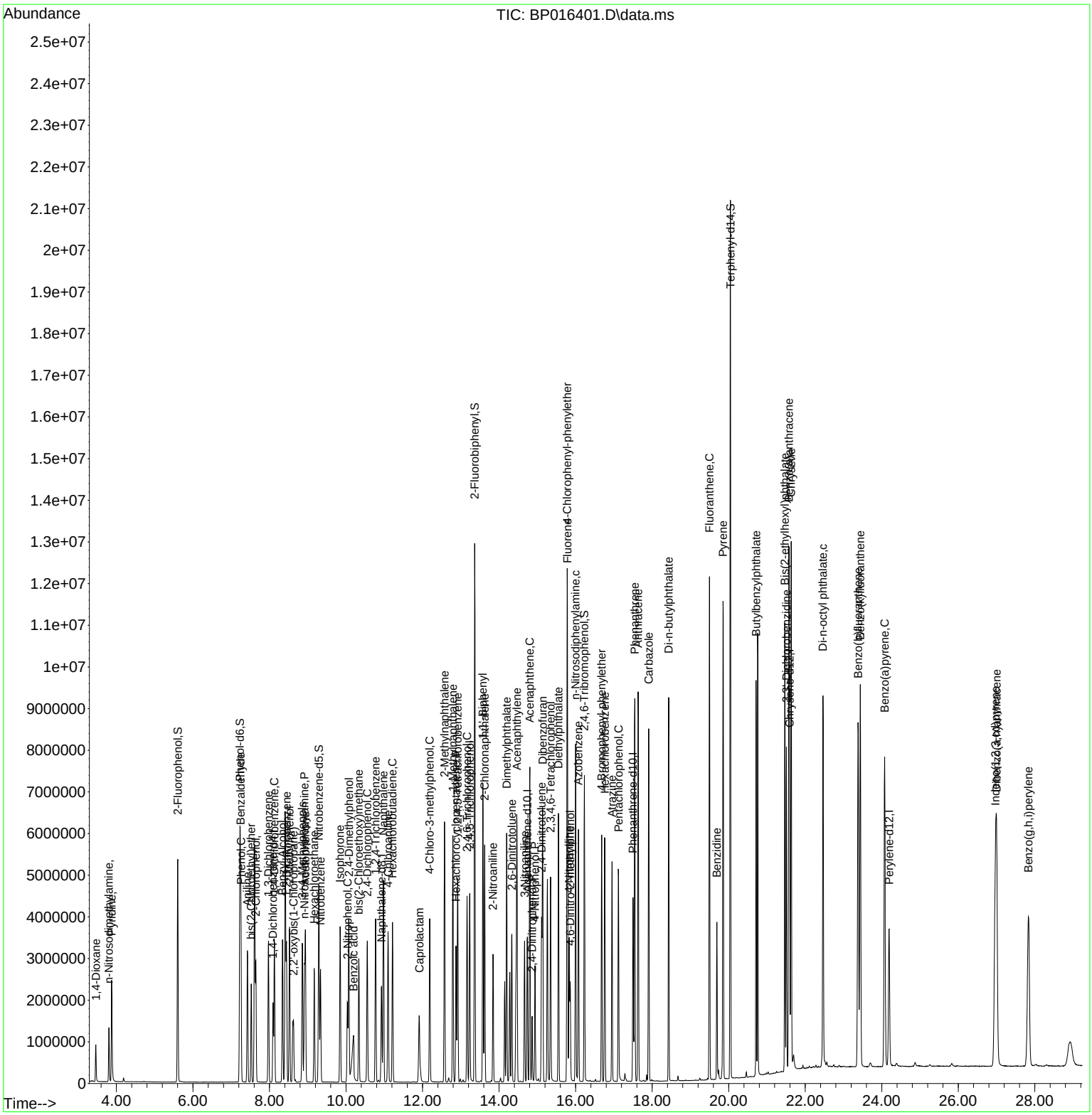
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	13.234	196	1218437	43.019	ng	99
46) 1,1'-Biphenyl	13.575	154	3673113	40.246	ng	100
47) 2-Chloronaphthalene	13.622	162	2779733	40.371	ng	99
48) 2-Nitroaniline	13.840	65	802990	41.373	ng	99
49) Acenaphthylene	14.463	152	4625323	40.487	ng	100
50) Dimethylphthalate	14.198	163	3738898	40.074	ng	99
51) 2,6-Dinitrotoluene	14.334	165	805065	42.120	ng	99
52) Acenaphthene	14.804	154	2726258	40.130	ng	99
53) 3-Nitroaniline	14.669	138	887059	41.051	ng	100
54) 2,4-Dinitrophenol	14.863	184	319154	40.125	ng	98
55) Dibenzofuran	15.140	168	4447694	39.919	ng	99
56) 4-Nitrophenol	14.940	139	707510	41.827	ng	98
57) 2,4-Dinitrotoluene	15.110	165	1071573	43.018	ng	99
58) Fluorene	15.787	166	3502069	40.008	ng	100
59) 2,3,4,6-Tetrachlorophenol	15.345	232	1016776	43.640	ng	99
60) Diethylphthalate	15.551	149	3664876	39.527	ng	100
61) 4-Chlorophenyl-phenyle...	15.781	204	1820379	41.212	ng	96
62) 4-Nitroaniline	15.834	138	890681	41.534	ng	99
63) Azobenzene	16.075	77	3365406	38.441	ng	99
65) 4,6-Dinitro-2-methylph...	15.863	198	497787	41.151	ng	93
66) n-Nitrosodiphenylamine	15.998	169	3125936	40.026	ng	100
67) 4-Bromophenyl-phenylether	16.681	248	1203484	42.889	ng	99
68) Hexachlorobenzene	16.763	284	1346701	43.036	ng	97
69) Atrazine	16.951	200	966497	41.612	ng	100
70) Pentachlorophenol	17.122	266	949240	43.835	ng	98
71) Phenanthrene	17.545	178	5646230	40.125	ng	100
72) Anthracene	17.634	178	5722212	40.441	ng	100
73) Carbazole	17.910	167	5297462	39.933	ng	99
74) Di-n-butylphthalate	18.433	149	6323115	41.199	ng	100
75) Fluoranthene	19.498	202	6790522	41.172	ng	99
77) Benzidine	19.692	184	1989375	45.012	ng	100
78) Pyrene	19.851	202	6975384	40.819	ng	100
80) Butylbenzylphthalate	20.716	149	2819399	41.997	ng	99
81) Benzo(a)anthracene	21.574	228	6982195	40.823	ng	100
82) 3,3'-Dichlorobenzidine	21.510	252	2379591	42.382	ng	99
83) Chrysene	21.633	228	6577662	40.273	ng	100
84) Bis(2-ethylhexyl)phtha...	21.469	149	4156018	41.234	ng	99
85) Di-n-octyl phthalate	22.463	149	6872228	40.541	ng	100
87) Indeno(1,2,3-cd)pyrene	26.968	276	7055961	38.243	ng	99
88) Benzo(b)fluoranthene	23.380	252	6715063	42.329	ng	100
89) Benzo(k)fluoranthene	23.439	252	6883685	42.666	ng	100
90) Benzo(a)pyrene	24.074	252	6430583	41.850	ng	100
91) Dibenzo(a,h)anthracene	27.004	278	5929734	38.538	ng	100
92) Benzo(g,h,i)perylene	27.833	276	5534330	37.324	ng	99

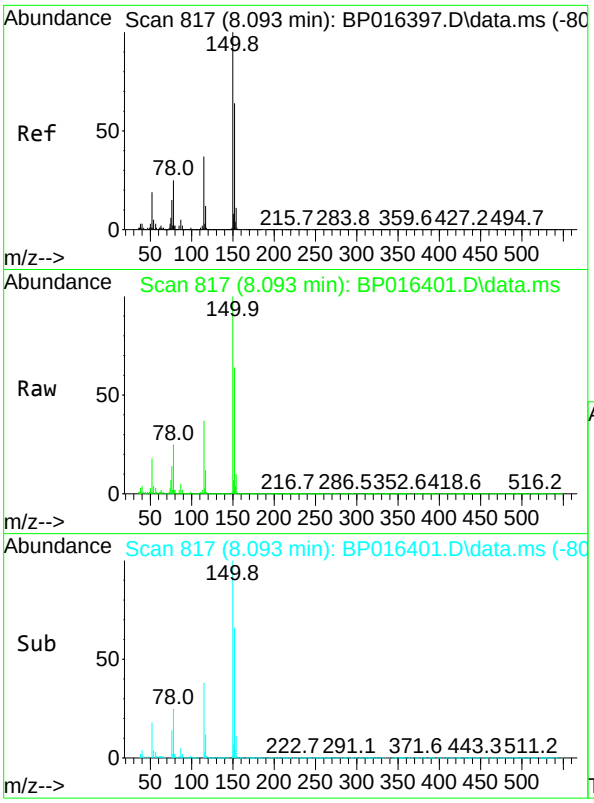
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP072723\
Data File : BP016401.D
Acq On : 27 Jul 2023 15:38
Operator : MA/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
ICVBP072723

Quant Time: Jul 28 01:50:34 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP072723.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 28 01:48:25 2023
Response via : Initial Calibration



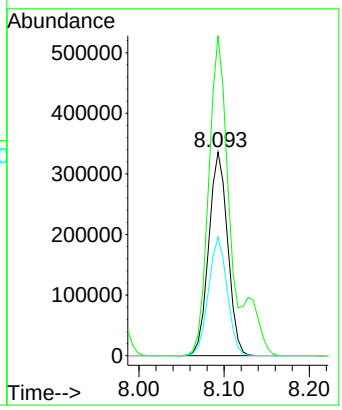


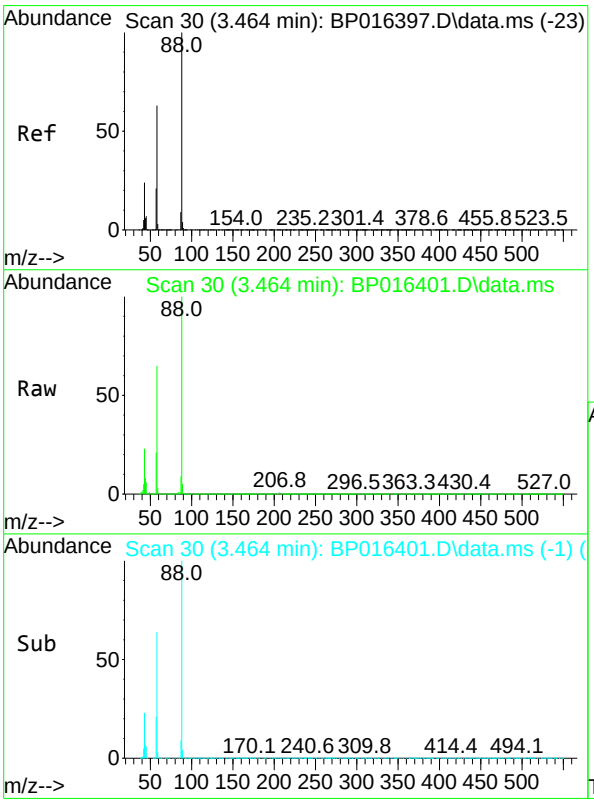
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.093 min Scan# 81
Delta R.T. -0.000 min
Lab File: BP016401.D
Acq: 27 Jul 2023 15:38

Instrument :
BNA_P
ClientSampleId :
ICVBP072723

Tgt Ion:152 Resp: 516991

Ion	Ratio	Lower	Upper
152	100		
150	157.2	124.9	187.3
115	58.3	46.8	70.2

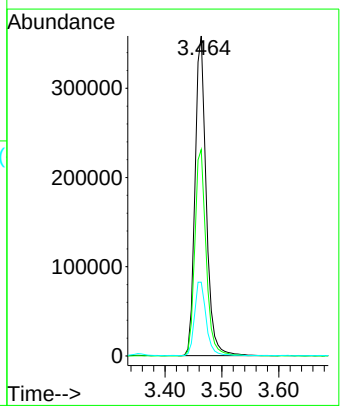


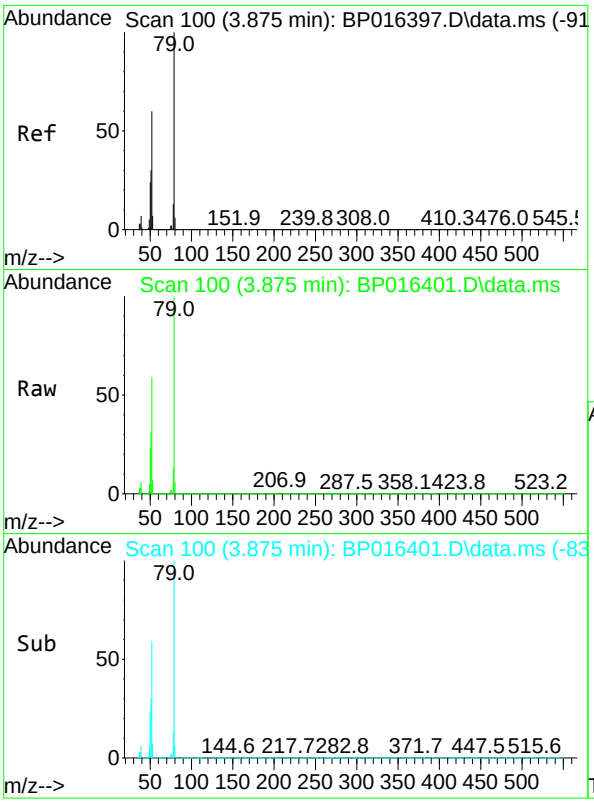


#2
1,4-Dioxane
Concen: 39.860 ng
RT: 3.464 min Scan# 30
Delta R.T. -0.000 min
Lab File: BP016401.D
Acq: 27 Jul 2023 15:38

Tgt Ion: 88 Resp: 492647

Ion	Ratio	Lower	Upper
88	100		
58	65.3	51.7	77.5
43	24.0	19.2	28.8



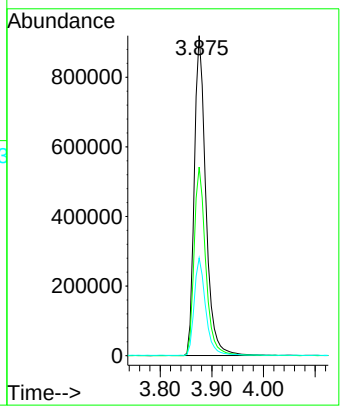


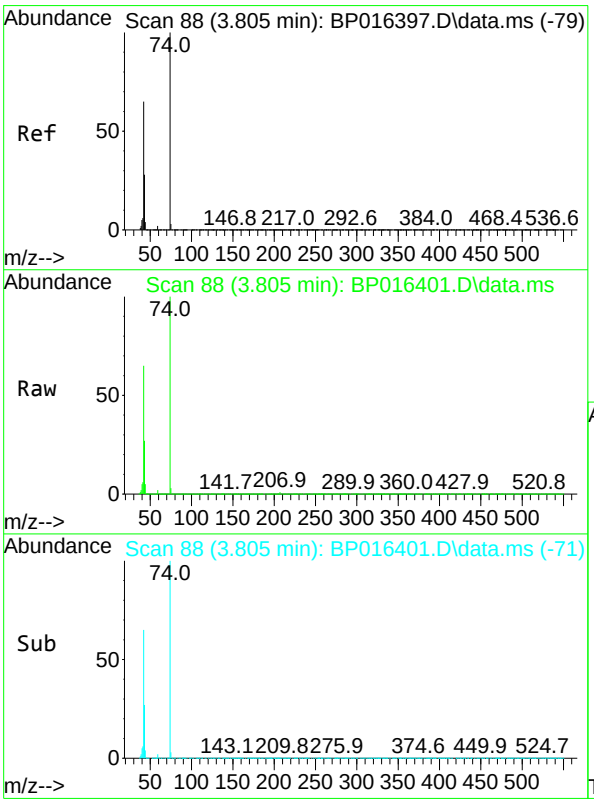
#3
Pyridine
Concen: 38.603 ng
RT: 3.875 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP016401.D
Acq: 27 Jul 2023 15:38

Instrument :
BNA_P
ClientSampleId :
ICVBP072723

Tgt Ion: 79 Resp: 1426162

Ion	Ratio	Lower	Upper
79	100		
52	58.9	47.9	71.9
51	30.5	24.4	36.6

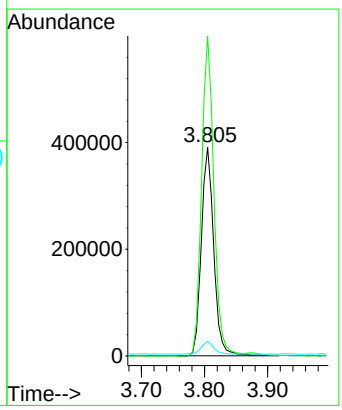


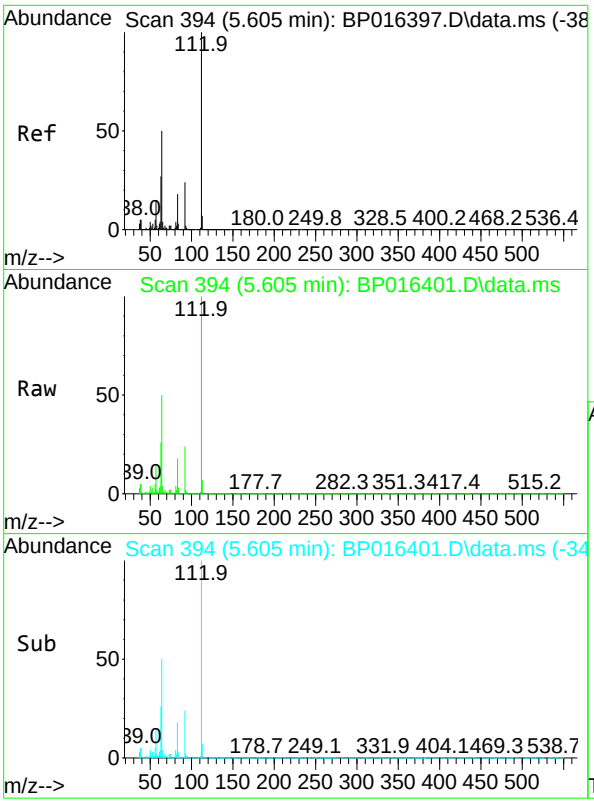


#4
n-Nitrosodimethylamine
Concen: 38.253 ng
RT: 3.805 min Scan# 88
Delta R.T. -0.000 min
Lab File: BP016401.D
Acq: 27 Jul 2023 15:38

Tgt Ion: 42 Resp: 532845

Ion	Ratio	Lower	Upper
42	100		
74	153.3	123.8	185.8
44	7.0	5.5	8.3



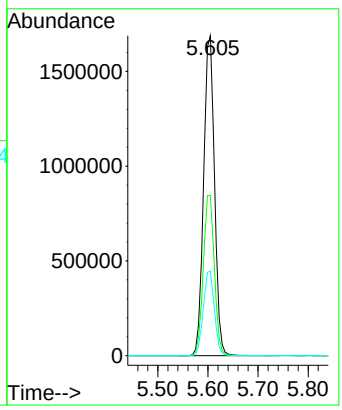


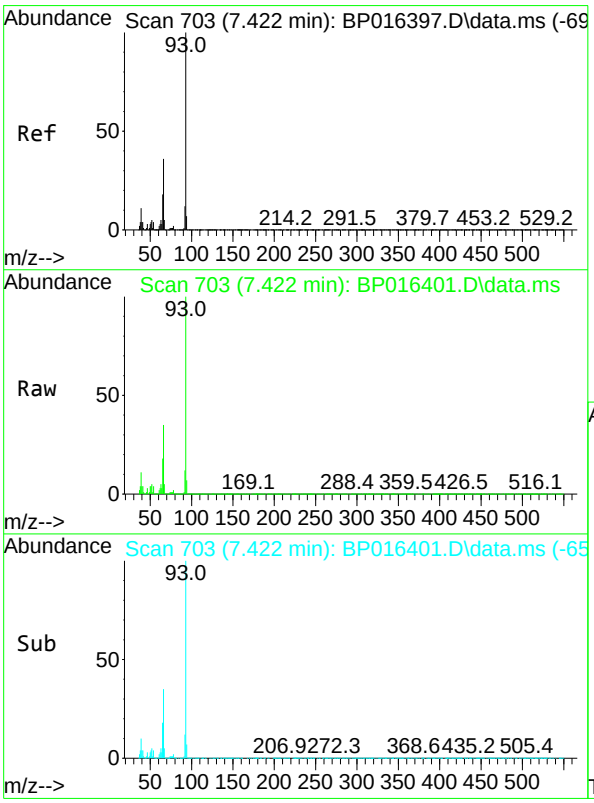
#5
2-Fluorophenol
Concen: 80.557 ng
RT: 5.605 min Scan# 3
Delta R.T. -0.000 min
Lab File: BP016401.D
Acq: 27 Jul 2023 15:38

Instrument :
BNA_P
ClientSampleId :
ICVBP072723

Tgt Ion:112 Resp: 2552831

Ion	Ratio	Lower	Upper
112	100		
64	50.0	40.0	60.0
63	26.4	21.2	31.8

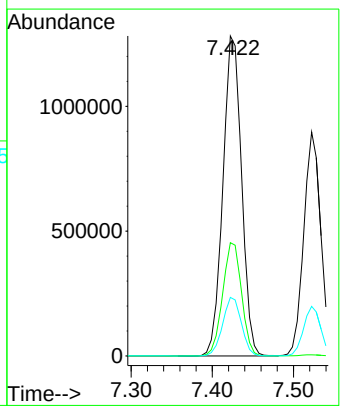


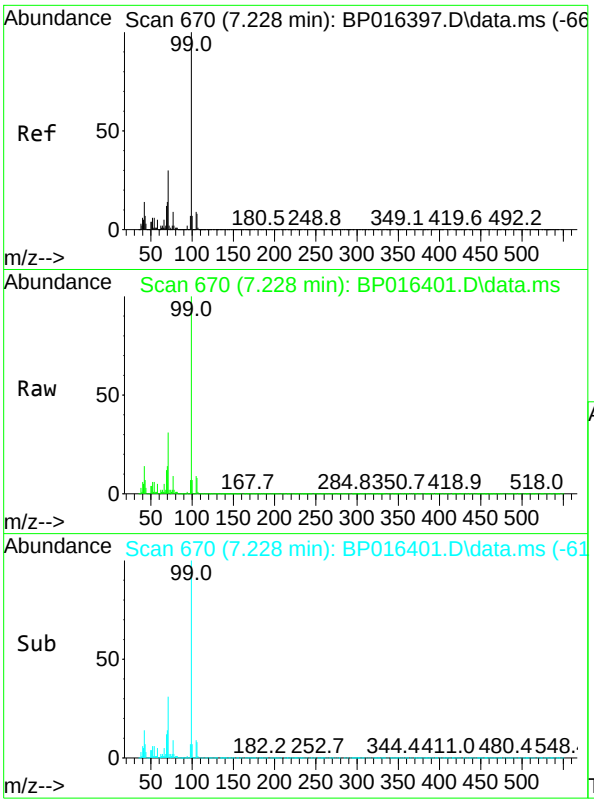


#6
Aniline
Concen: 38.198 ng
RT: 7.422 min Scan# 703
Delta R.T. -0.000 min
Lab File: BP016401.D
Acq: 27 Jul 2023 15:38

Tgt Ion: 93 Resp: 2049370

Ion	Ratio	Lower	Upper
93	100		
66	35.4	28.9	43.3
65	18.3	14.7	22.1



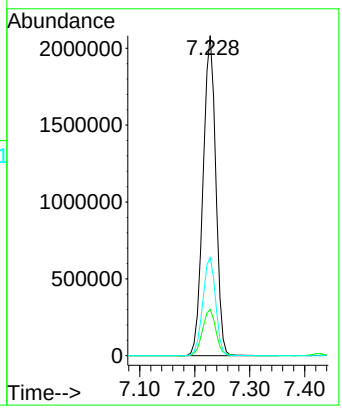


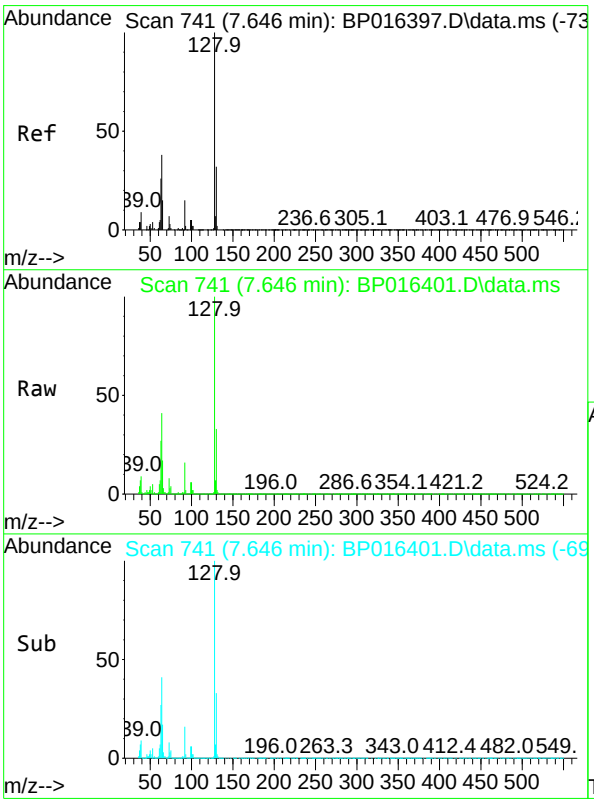
#7
Phenol-d6
Concen: 76.973 ng
RT: 7.228 min Scan# 6
Delta R.T. -0.000 min
Lab File: BP016401.D
Acq: 27 Jul 2023 15:38

Instrument :
BNA_P
ClientSampleId :
ICVBP072723

Tgt Ion: 99 Resp: 3343438

Ion	Ratio	Lower	Upper
99	100		
42	14.5	11.6	17.4
71	30.6	24.3	36.5

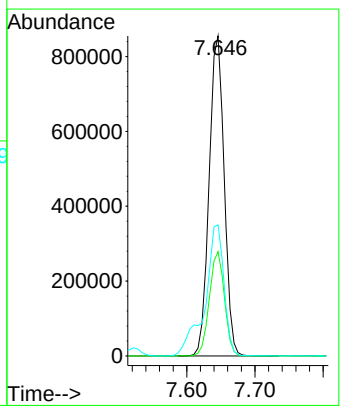


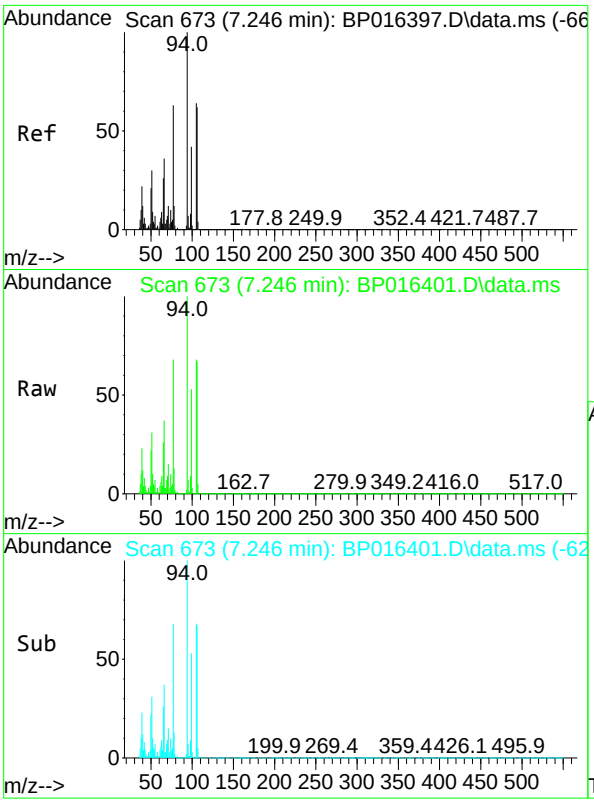


#8
2-Chlorophenol
Concen: 39.615 ng
RT: 7.646 min Scan# 741
Delta R.T. -0.000 min
Lab File: BP016401.D
Acq: 27 Jul 2023 15:38

Tgt Ion:128 Resp: 1316273

Ion	Ratio	Lower	Upper
128	100		
130	32.6	11.6	51.6
64	41.0	20.6	60.6



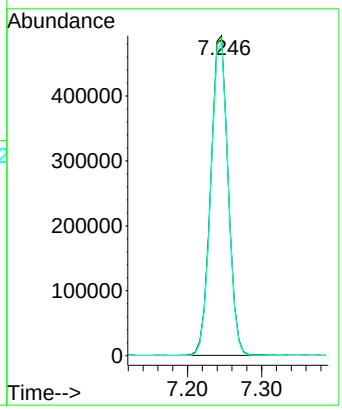


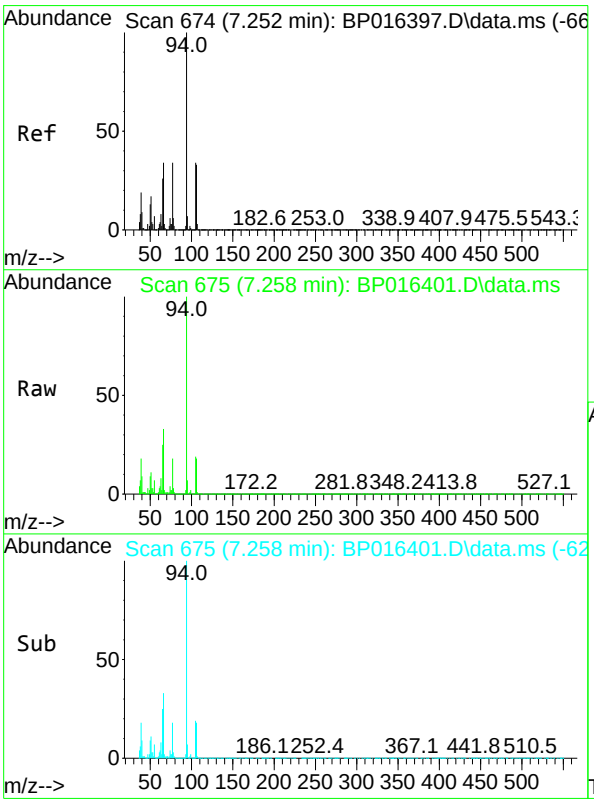
#9
Benzaldehyde
Concen: 39.105 ng
RT: 7.246 min Scan# 6
Delta R.T. -0.000 min
Lab File: BP016401.D
Acq: 27 Jul 2023 15:38

Instrument :
BNA_P
ClientSampleId :
ICVBP072723

Tgt Ion: 77 Resp: 799936

Ion	Ratio	Lower	Upper
77	100		
105	99.3	81.9	121.9
106	98.2	78.8	118.8

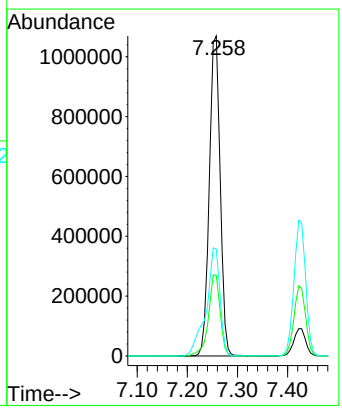


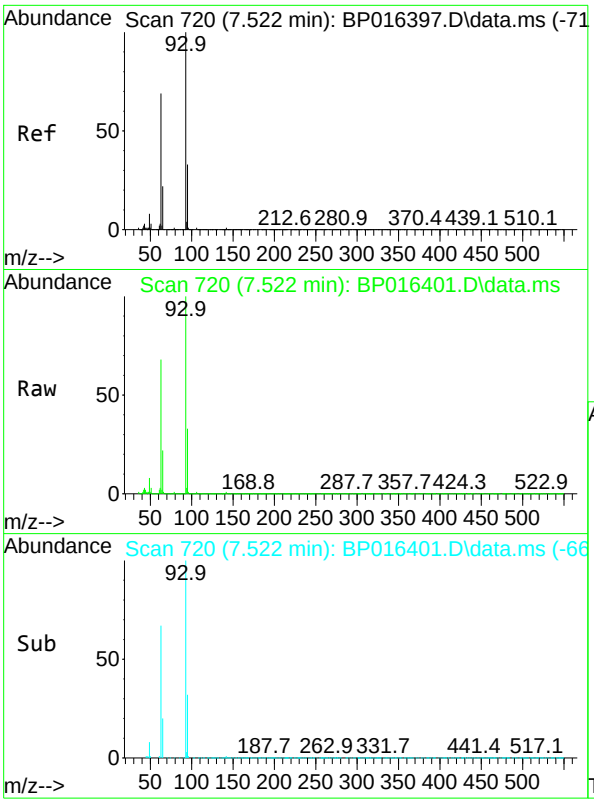


#10
Phenol
Concen: 38.260 ng
RT: 7.258 min Scan# 675
Delta R.T. 0.006 min
Lab File: BP016401.D
Acq: 27 Jul 2023 15:38

Tgt Ion: 94 Resp: 1613888

Ion	Ratio	Lower	Upper
94	100		
65	25.2	5.9	45.9
66	33.4	14.3	54.3



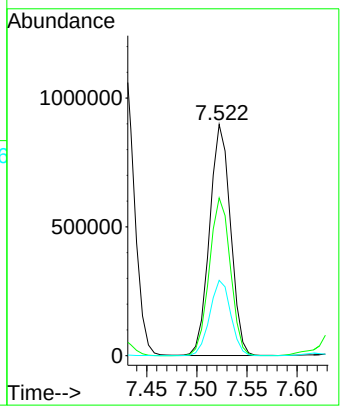


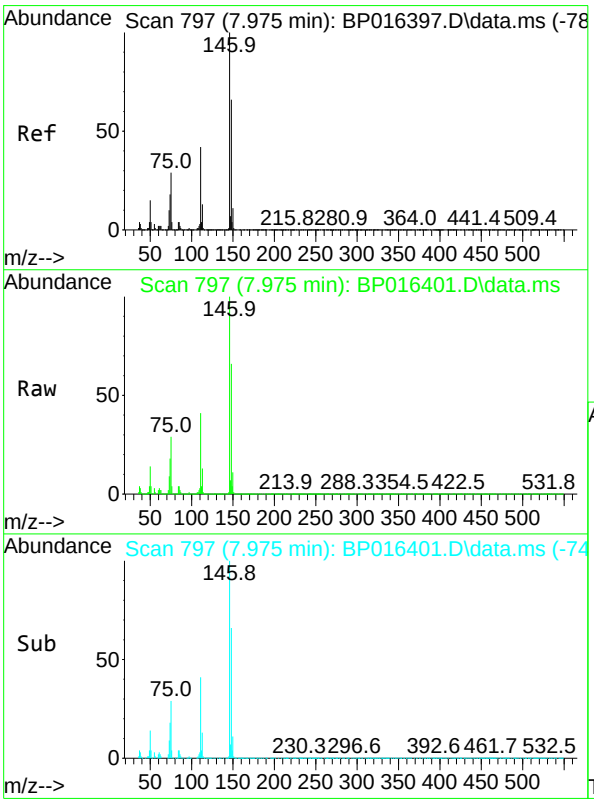
#11
bis(2-Chloroethyl)ether
Concen: 38.023 ng
RT: 7.522 min Scan# 7
Delta R.T. -0.000 min
Lab File: BP016401.D
Acq: 27 Jul 2023 15:38

Instrument :
BNA_P
ClientSampleId :
ICVBP072723

Tgt Ion: 93 Resp: 1303776

Ion	Ratio	Lower	Upper
93	100		
63	68.2	49.4	89.4
95	32.6	12.9	52.9

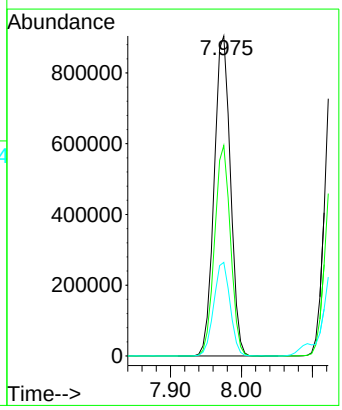


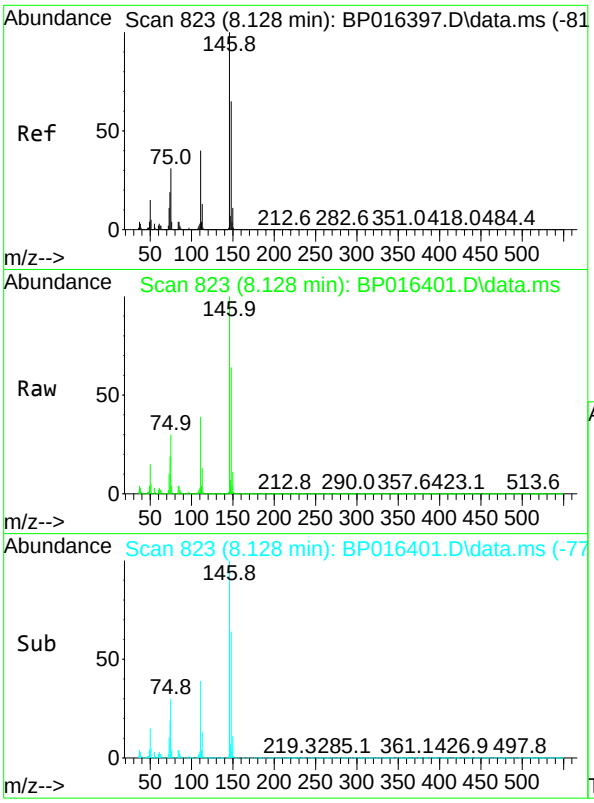


#12
1,3-Dichlorobenzene
Concen: 40.196 ng
RT: 7.975 min Scan# 797
Delta R.T. -0.000 min
Lab File: BP016401.D
Acq: 27 Jul 2023 15:38

Tgt Ion:146 Resp: 1433781

Ion	Ratio	Lower	Upper
146	100		
148	65.8	53.0	79.4
75	29.3	23.4	35.2



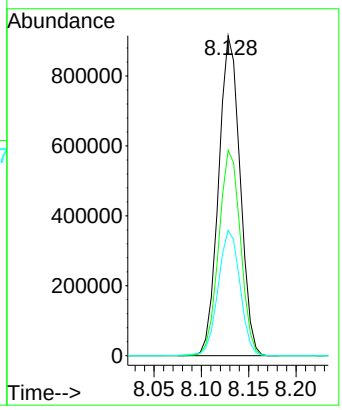


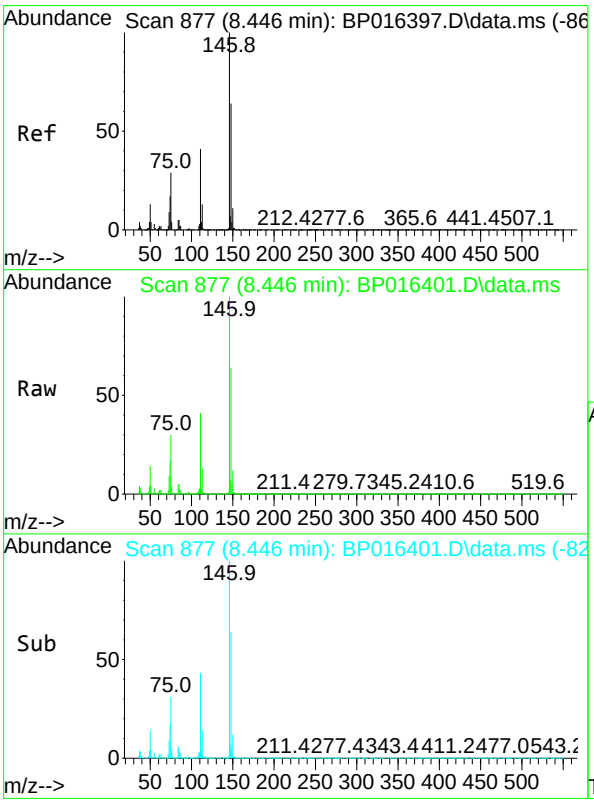
#13
1,4-Dichlorobenzene
Concen: 39.895 ng
RT: 8.128 min Scan# 8
Delta R.T. -0.000 min
Lab File: BP016401.D
Acq: 27 Jul 2023 15:38

Instrument :
BNA_P
ClientSampleId :
ICVBP072723

Tgt Ion:146 Resp: 1443503

Ion	Ratio	Lower	Upper
146	100		
148	64.1	51.7	77.5
111	39.2	32.0	48.0

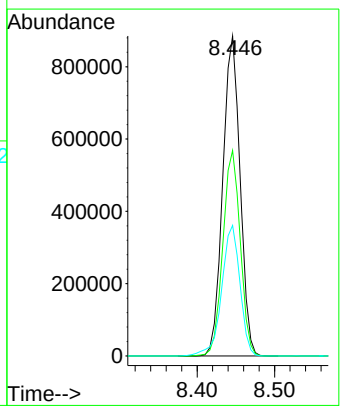


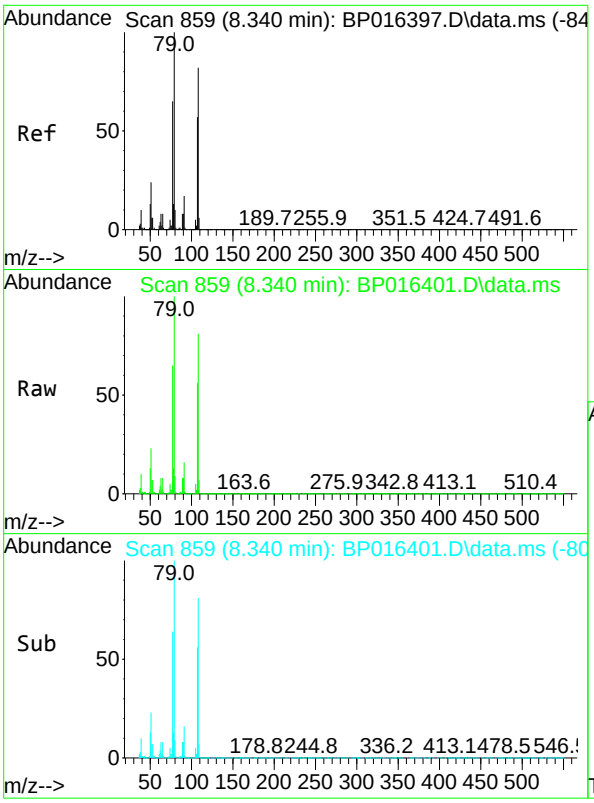


#14
1,2-Dichlorobenzene
Concen: 39.494 ng
RT: 8.446 min Scan# 877
Delta R.T. -0.000 min
Lab File: BP016401.D
Acq: 27 Jul 2023 15:38

Tgt Ion:146 Resp: 1375893

Ion	Ratio	Lower	Upper
146	100		
148	64.2	51.0	76.6
111	40.8	32.6	49.0



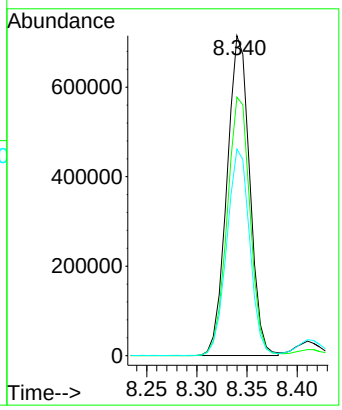


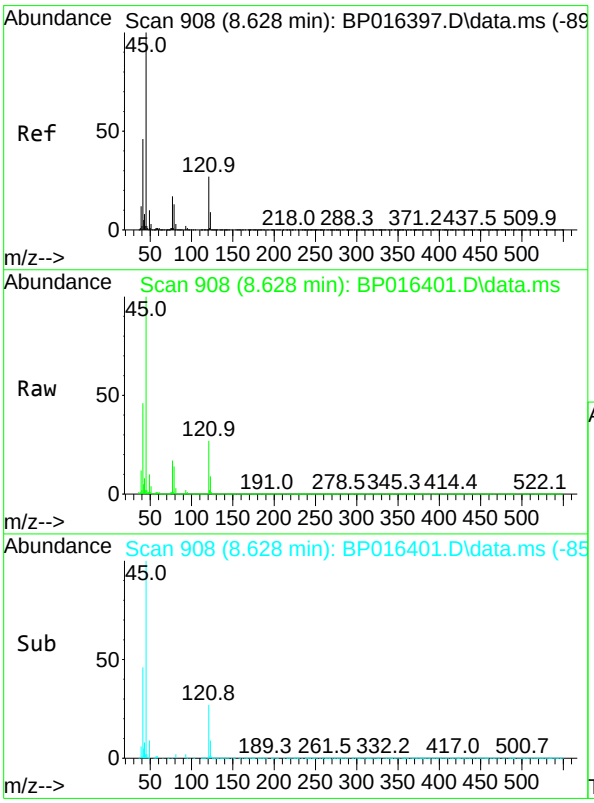
#15
Benzyl Alcohol
Concen: 37.992 ng
RT: 8.340 min Scan# 8
Delta R.T. -0.000 min
Lab File: BP016401.D
Acq: 27 Jul 2023 15:38

Instrument :
BNA_P
ClientSampleId :
ICVBP072723

Tgt Ion: 79 Resp: 1127417

Ion	Ratio	Lower	Upper
79	100		
108	80.8	65.4	98.2
77	64.6	51.8	77.8

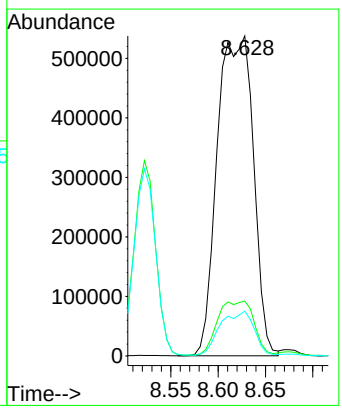


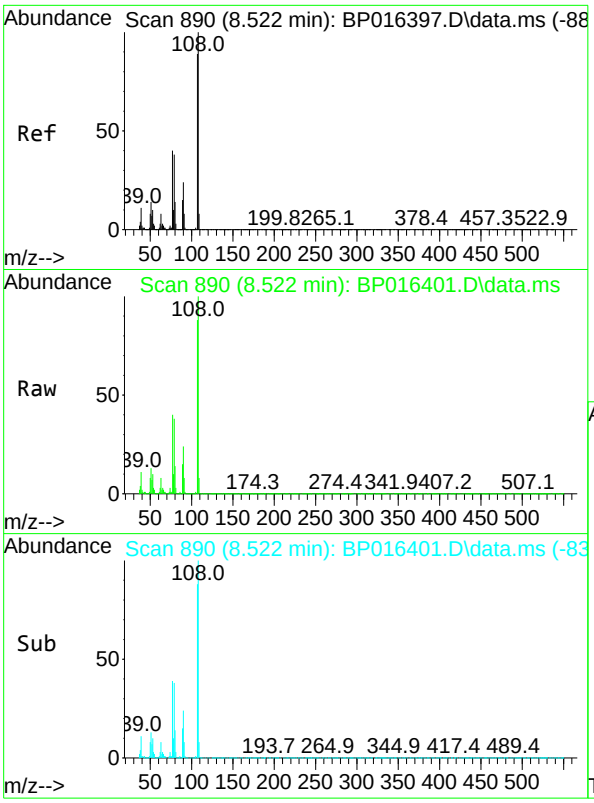


#16
2,2'-oxybis(1-Chloropropane)
Concen: 36.555 ng
RT: 8.628 min Scan# 908
Delta R.T. -0.000 min
Lab File: BP016401.D
Acq: 27 Jul 2023 15:38

Tgt Ion: 45 Resp: 1421519

Ion	Ratio	Lower	Upper
45	100		
77	17.2	0.0	37.3
79	14.0	0.0	33.3



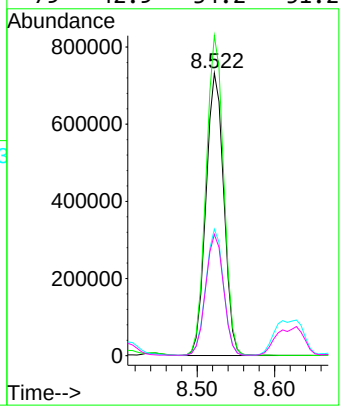


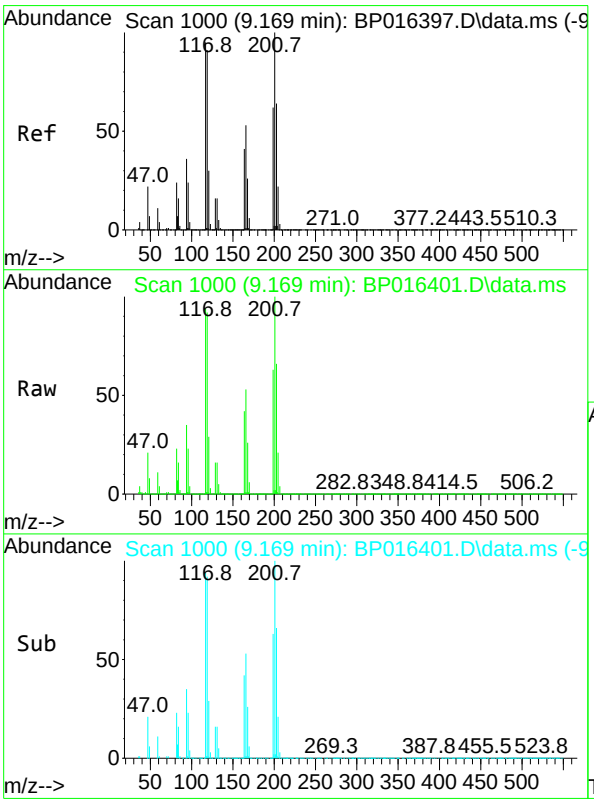
#17
2-Methylphenol
Concen: 38.446 ng
RT: 8.522 min Scan# 8
Delta R.T. -0.000 min
Lab File: BP016401.D
Acq: 27 Jul 2023 15:38

Instrument :
BNA_P
ClientSampleId :
ICVBP072723

Tgt Ion:107 Resp: 1168772

Ion	Ratio	Lower	Upper
107	100		
108	113.2	89.6	134.4
77	44.8	35.6	53.4
79	42.9	34.2	51.2

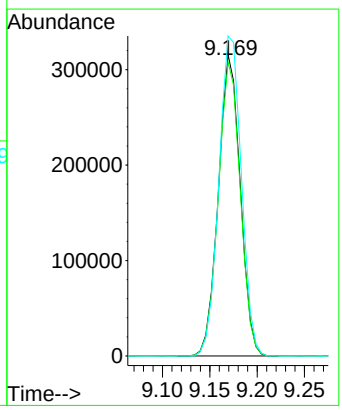


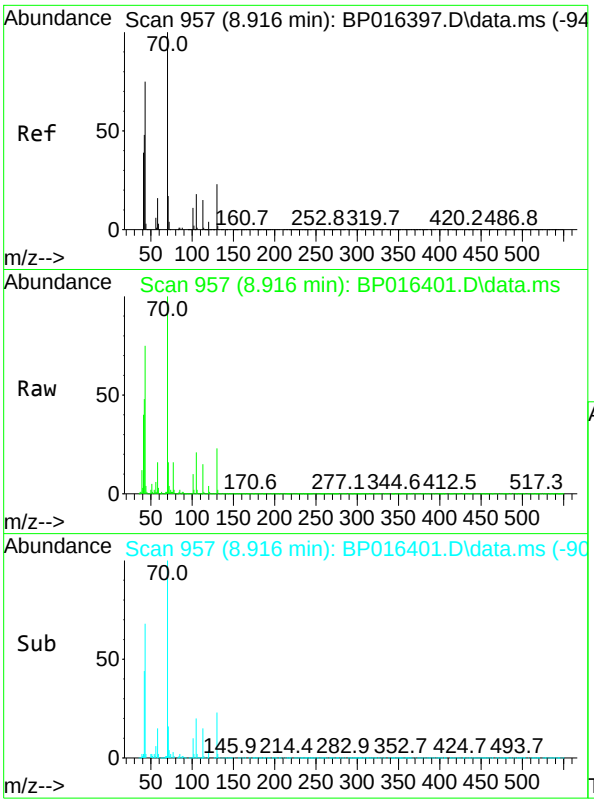


#18
Hexachloroethane
Concen: 39.349 ng
RT: 9.169 min Scan# 1000
Delta R.T. -0.000 min
Lab File: BP016401.D
Acq: 27 Jul 2023 15:38

Tgt Ion:117 Resp: 507846

Ion	Ratio	Lower	Upper
117	100		
119	97.5	76.9	115.3
201	108.6	86.2	129.4



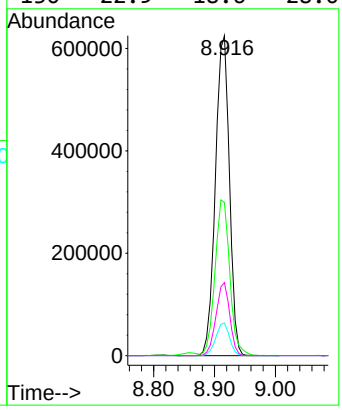


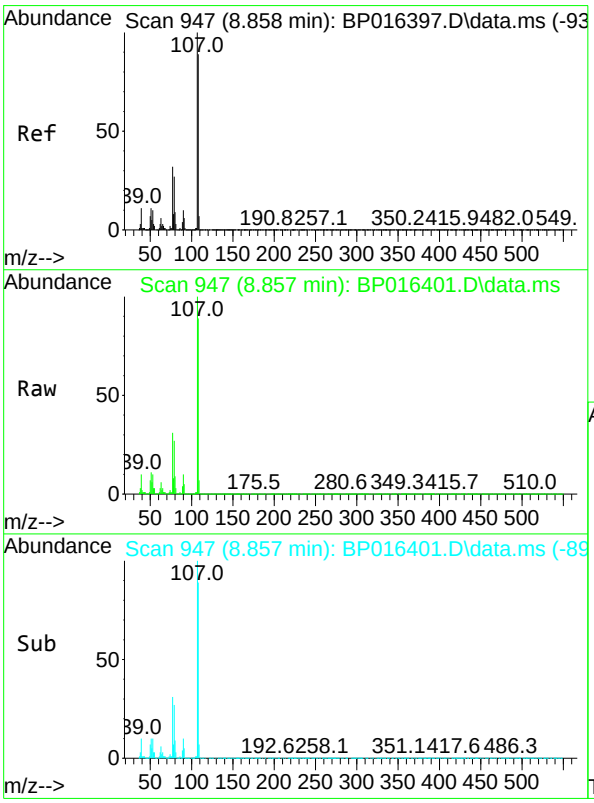
#19
n-Nitroso-di-n-propylamine
Concen: 36.602 ng
RT: 8.916 min Scan# 9
Delta R.T. -0.000 min
Lab File: BP016401.D
Acq: 27 Jul 2023 15:38

Instrument :
BNA_P
ClientSampleId :
ICVBP072723

Tgt Ion: 70 Resp: 996007

Ion	Ratio	Lower	Upper
70	100		
42	47.9	39.3	58.9
101	10.2	8.6	12.8
130	22.9	18.6	28.0

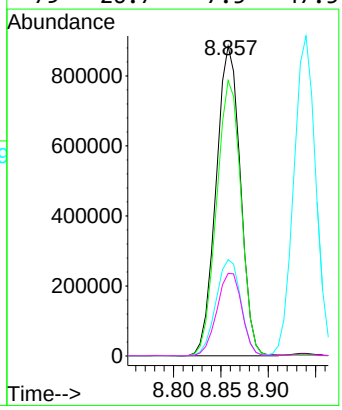


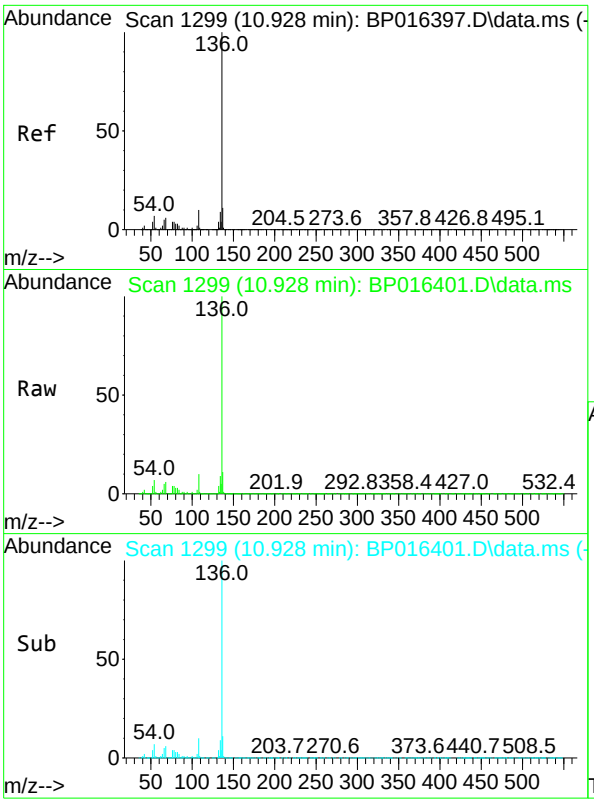


#20
3+4-Methylphenols
Concen: 38.299 ng
RT: 8.857 min Scan# 947
Delta R.T. -0.000 min
Lab File: BP016401.D
Acq: 27 Jul 2023 15:38

Tgt Ion:107 Resp: 1581258

Ion	Ratio	Lower	Upper
107	100		
108	88.9	69.1	109.1
77	31.1	12.0	52.0
79	26.7	7.5	47.5



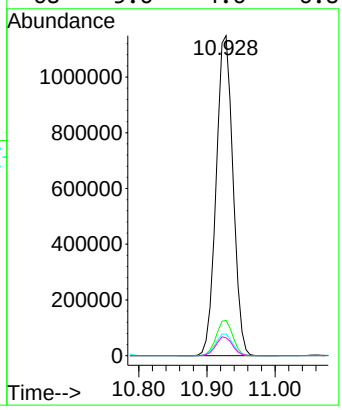


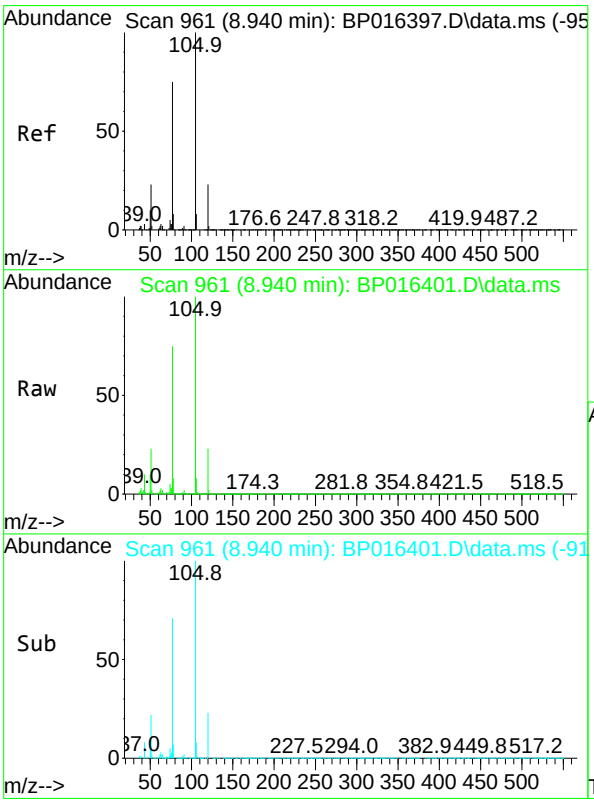
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.928 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP016401.D
Acq: 27 Jul 2023 15:38

Instrument :
BNA_P
ClientSampleId :
ICVBP072723

Tgt Ion:136 Resp: 1970597

Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.6	13.0
54	6.8	5.6	8.4
68	5.6	4.6	6.8

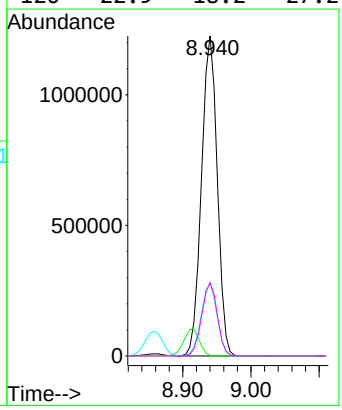


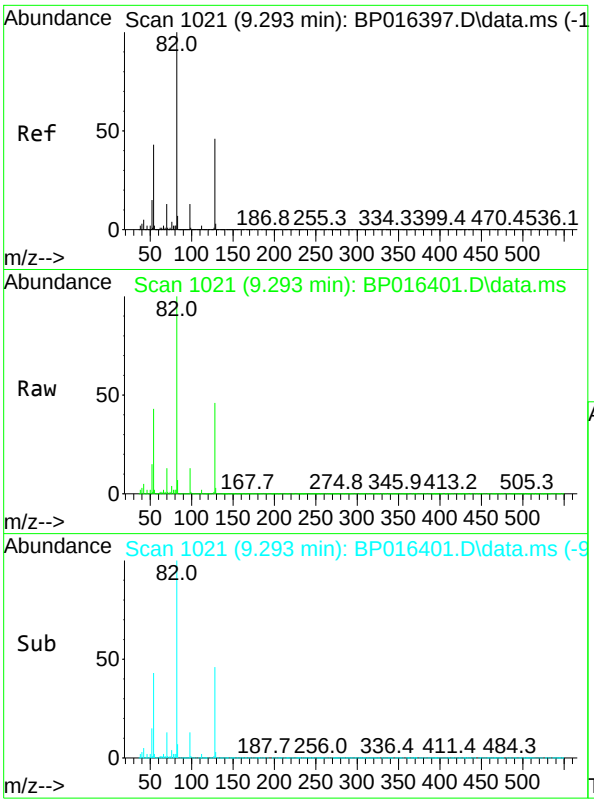


#22
Acetophenone
Concen: 39.561 ng
RT: 8.940 min Scan# 961
Delta R.T. -0.000 min
Lab File: BP016401.D
Acq: 27 Jul 2023 15:38

Tgt Ion:105 Resp: 1968332

Ion	Ratio	Lower	Upper
105	100		
71	0.2	0.2	0.2
51	22.6	18.3	27.5
120	22.9	18.2	27.2



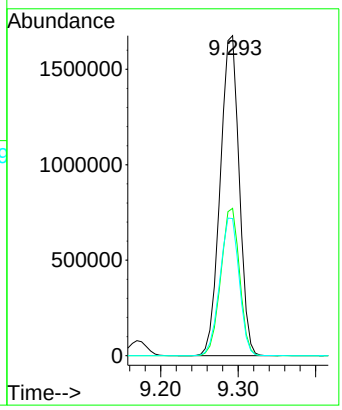


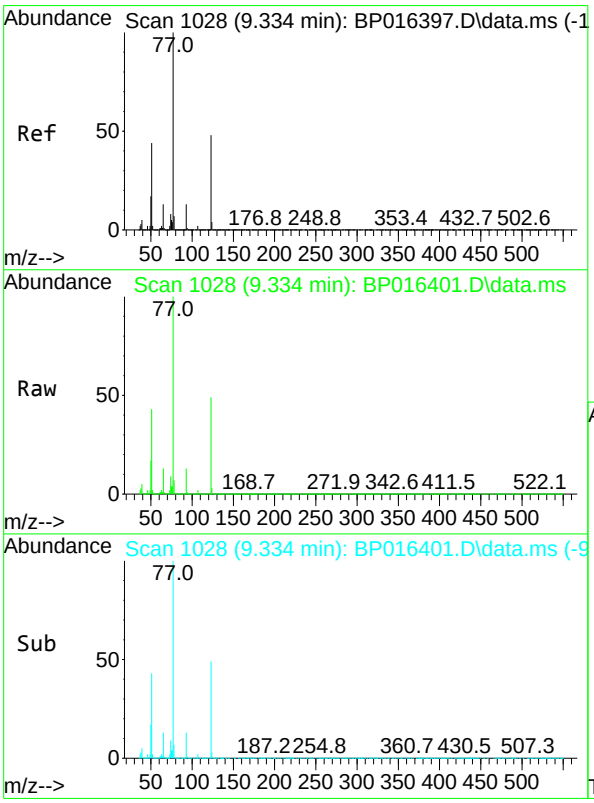
#23
Nitrobenzene-d5
Concen: 81.217 ng
RT: 9.293 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP016401.D
Acq: 27 Jul 2023 15:38

Instrument :
BNA_P
ClientSampleId :
ICVBP072723

Tgt Ion: 82 Resp: 2859056

Ion	Ratio	Lower	Upper
82	100		
128	46.0	36.6	55.0
54	42.9	34.5	51.7

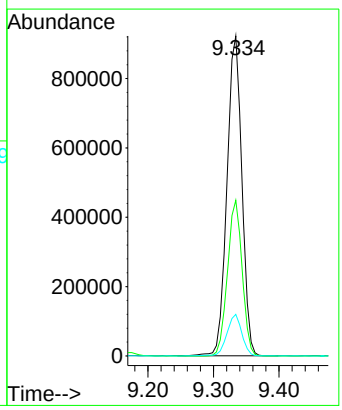


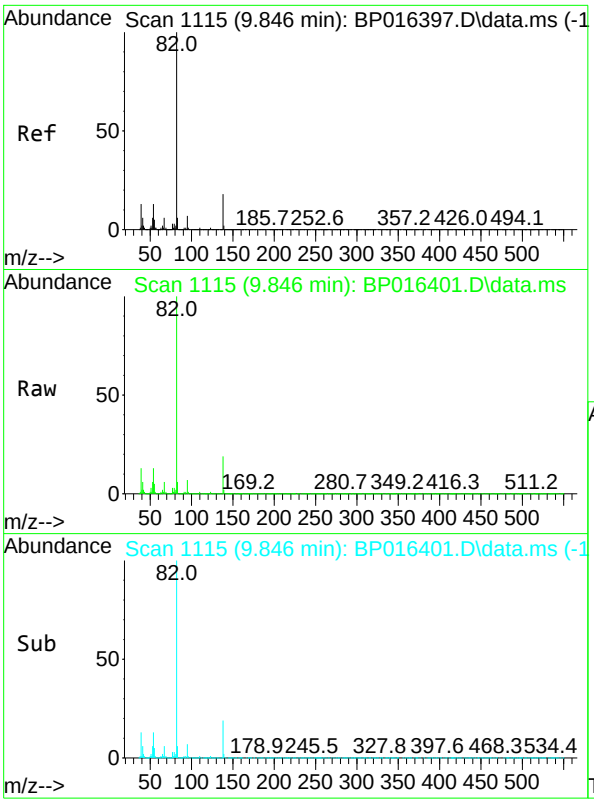


#24
Nitrobenzene
Concen: 40.212 ng
RT: 9.334 min Scan# 1028
Delta R.T. -0.000 min
Lab File: BP016401.D
Acq: 27 Jul 2023 15:38

Tgt Ion: 77 Resp: 1453949

Ion	Ratio	Lower	Upper
77	100		
123	48.7	38.6	58.0
65	13.0	10.5	15.7



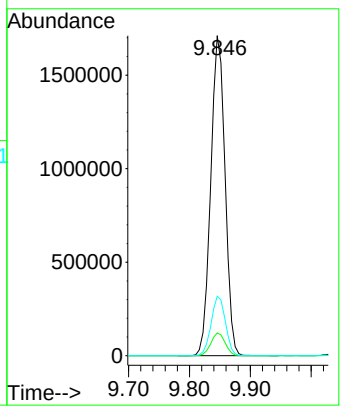


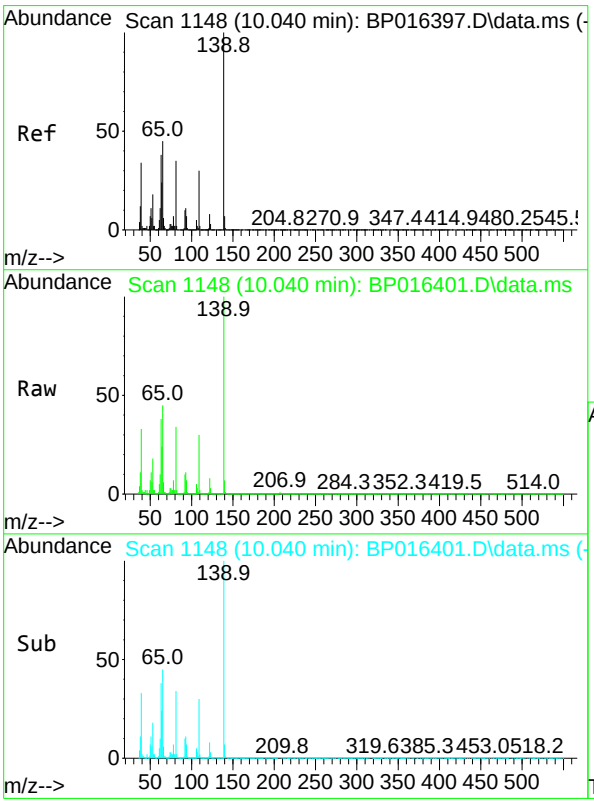
#25
Isophorone
Concen: 39.229 ng
RT: 9.846 min Scan# 11
Delta R.T. -0.000 min
Lab File: BP016401.D
Acq: 27 Jul 2023 15:38

Instrument :
BNA_P
ClientSampleId :
ICVBP072723

Tgt Ion: 82 Resp: 2788057

Ion	Ratio	Lower	Upper
82	100		
95	7.1	5.7	8.5
138	18.6	14.6	22.0

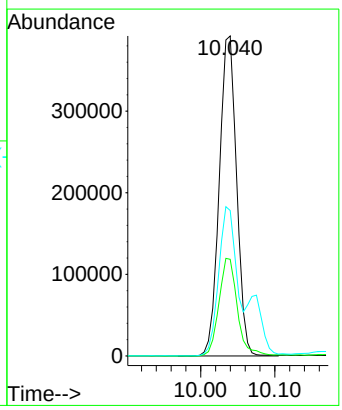


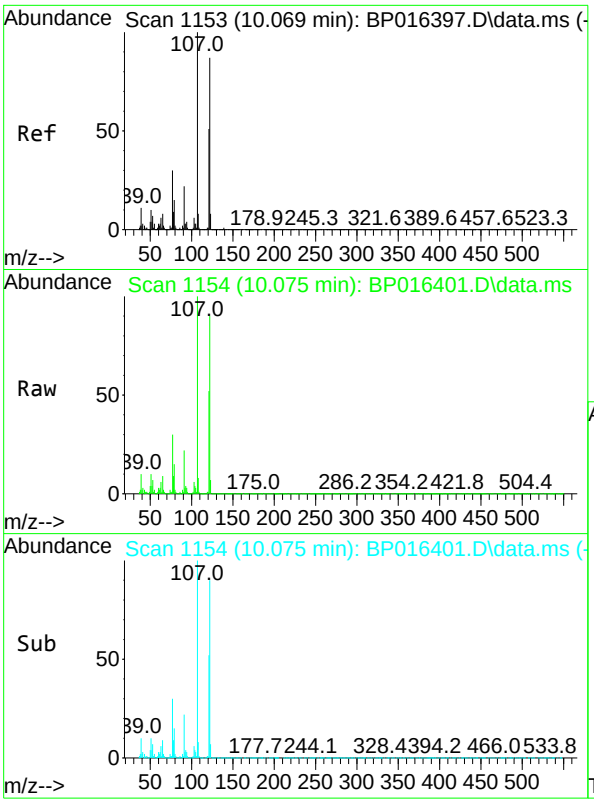


#26
2-Nitrophenol
Concen: 41.378 ng
RT: 10.040 min Scan# 1148
Delta R.T. -0.000 min
Lab File: BP016401.D
Acq: 27 Jul 2023 15:38

Tgt Ion:139 Resp: 637639

Ion	Ratio	Lower	Upper
139	100		
109	30.2	24.2	36.4
65	45.4	35.8	53.6



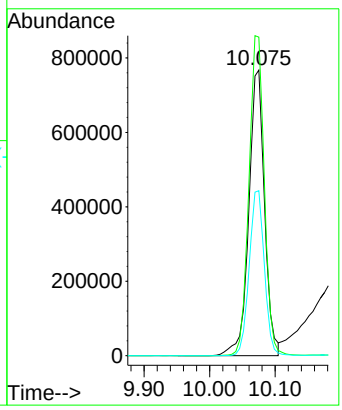


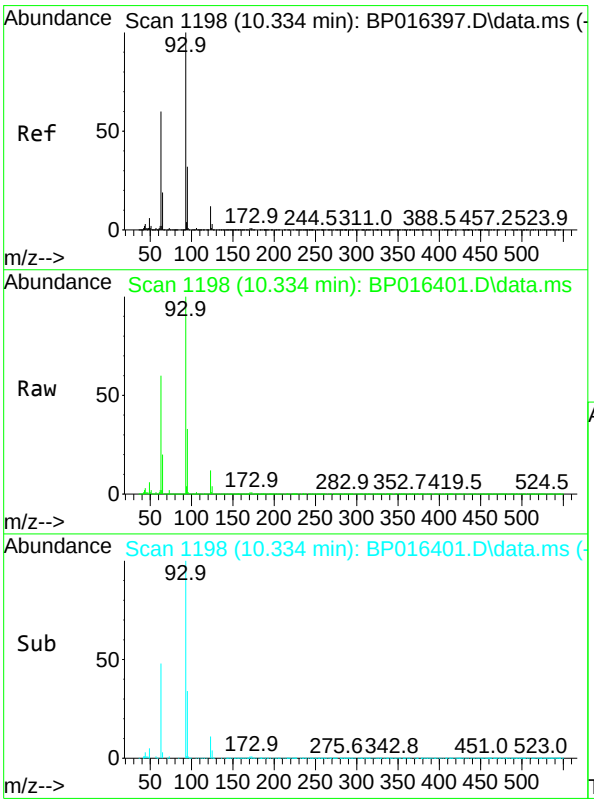
#27
2,4-Dimethylphenol
Concen: 40.241 ng
RT: 10.075 min Scan# 11
Delta R.T. 0.006 min
Lab File: BP016401.D
Acq: 27 Jul 2023 15:38

Instrument :
BNA_P
ClientSampleId :
ICVBP072723

Tgt Ion:122 Resp: 1279490

Ion	Ratio	Lower	Upper
122	100		
107	111.6	91.9	137.9
121	57.8	47.2	70.8

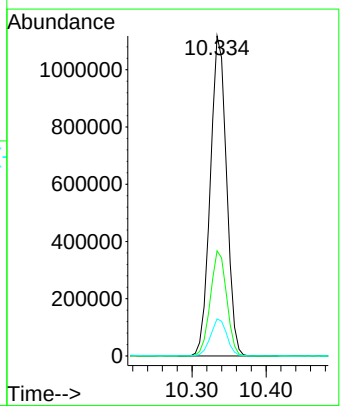


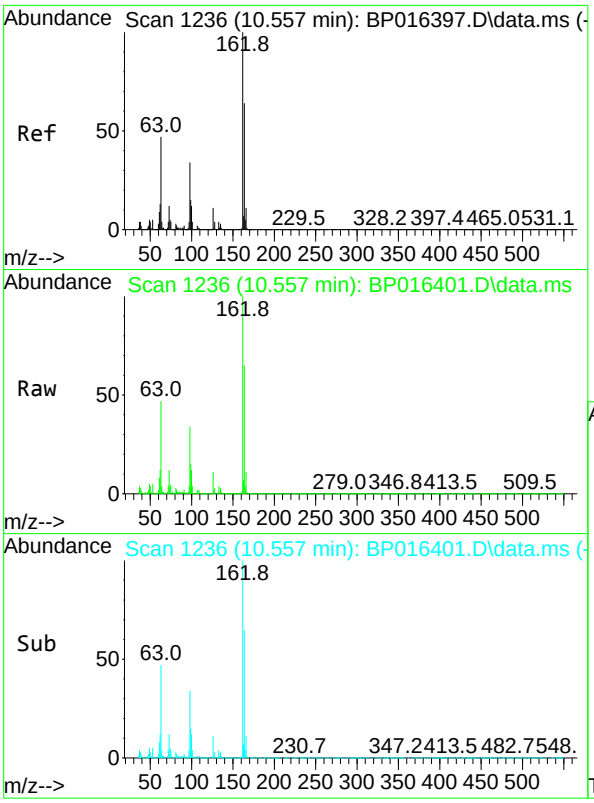


#28
bis(2-Chloroethoxy)methane
Concen: 39.036 ng
RT: 10.334 min Scan# 1198
Delta R.T. -0.000 min
Lab File: BP016401.D
Acq: 27 Jul 2023 15:38

Tgt Ion: 93 Resp: 1699423

Ion	Ratio	Lower	Upper
93	100		
95	32.9	25.8	38.8
123	11.6	9.4	14.0



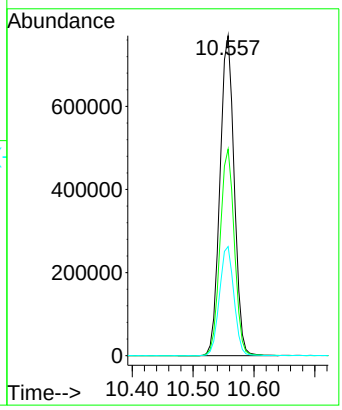


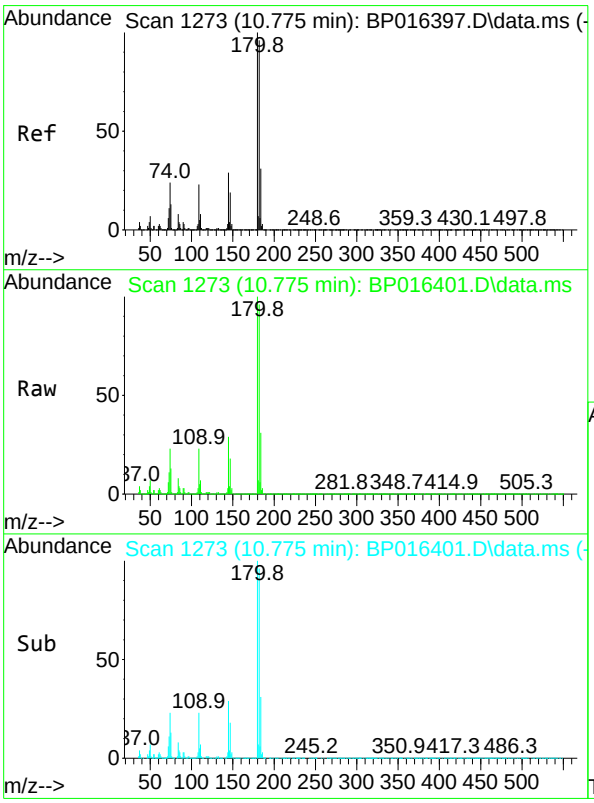
#29
2,4-Dichlorophenol
Concen: 42.110 ng
RT: 10.557 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP016401.D
Acq: 27 Jul 2023 15:38

Instrument :
BNA_P
ClientSampleId :
ICVBP072723

Tgt Ion:162 Resp: 1253062

Ion	Ratio	Lower	Upper
162	100		
164	64.5	44.2	84.2
98	34.1	13.7	53.7

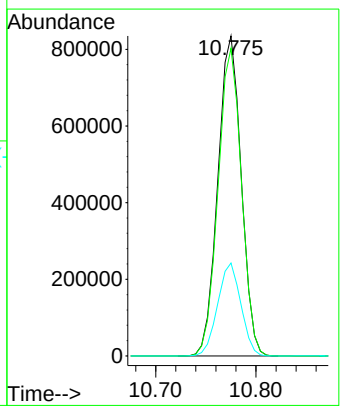


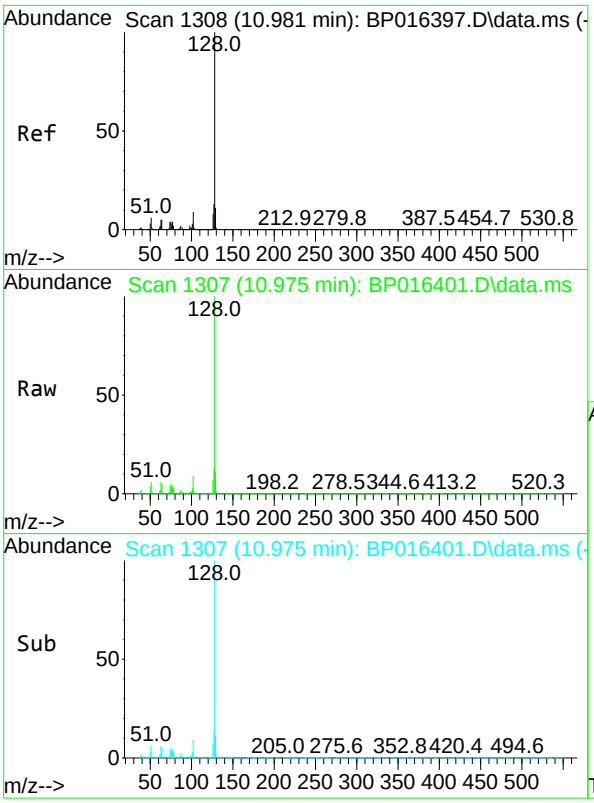


#30
1,2,4-Trichlorobenzene
Concen: 41.865 ng
RT: 10.775 min Scan# 1273
Delta R.T. -0.000 min
Lab File: BP016401.D
Acq: 27 Jul 2023 15:38

Tgt Ion:180 Resp: 1349301

Ion	Ratio	Lower	Upper
180	100		
182	96.1	77.1	115.7
145	29.1	22.9	34.3



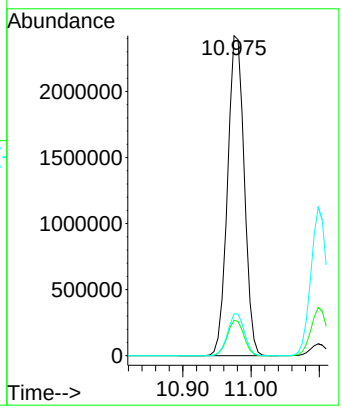


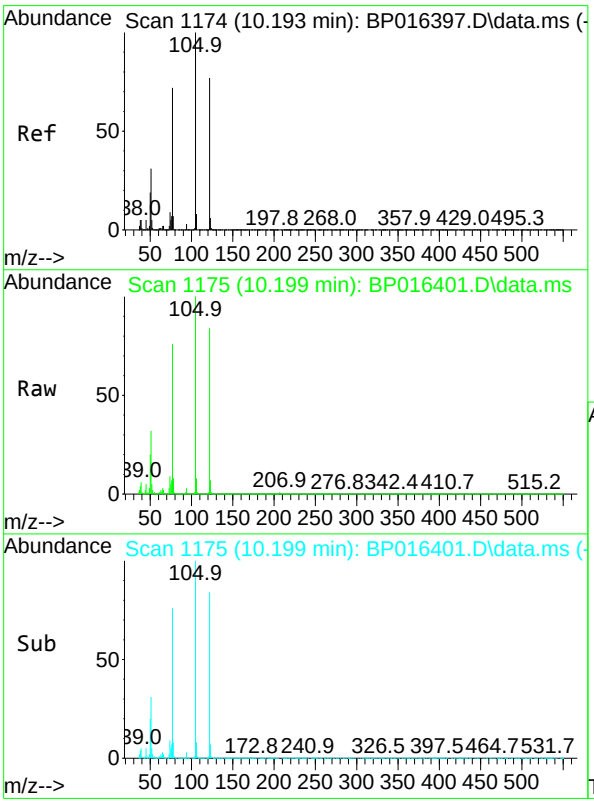
#31
Naphthalene
Concen: 39.939 ng
RT: 10.975 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP016401.D
Acq: 27 Jul 2023 15:38

Instrument :
BNA_P
ClientSampleId :
ICVBP072723

Tgt Ion:128 Resp: 4116775

Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.6	12.8
127	13.0	10.4	15.6

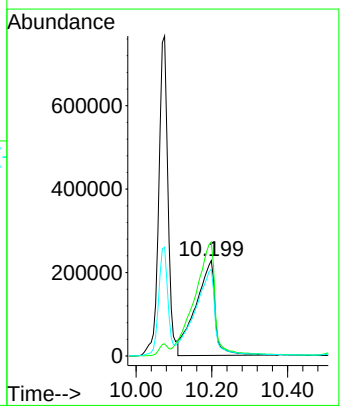


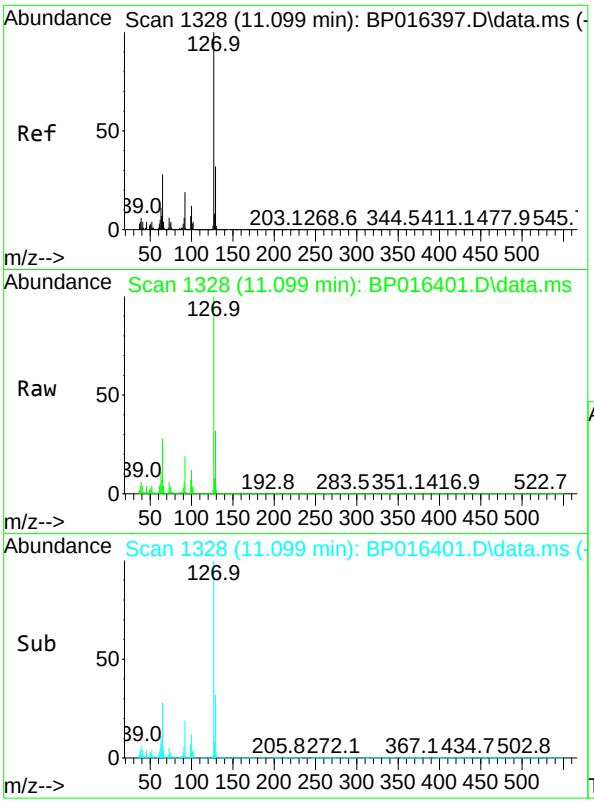


#32
Benzoic acid
Concen: 40.374 ng
RT: 10.199 min Scan# 1175
Delta R.T. 0.006 min
Lab File: BP016401.D
Acq: 27 Jul 2023 15:38

Tgt Ion:122 Resp: 818279

Ion	Ratio	Lower	Upper
122	100		
105	119.4	105.2	145.2
77	90.9	72.2	112.2



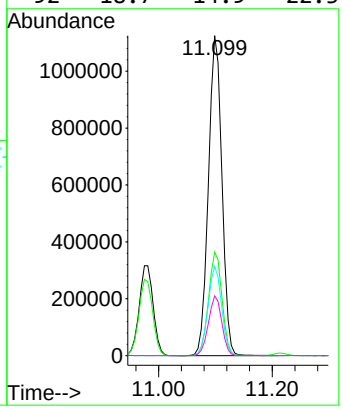


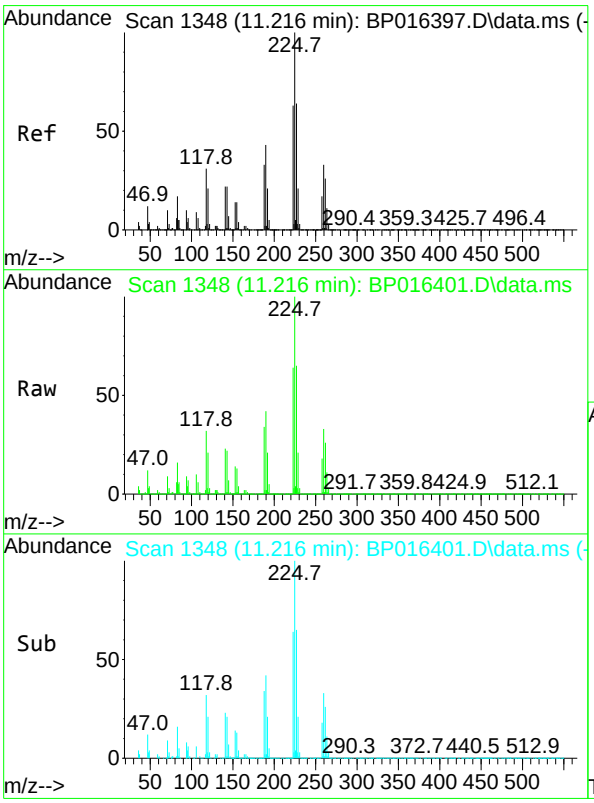
#33
4-Chloroaniline
Concen: 39.711 ng
RT: 11.099 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP016401.D
Acq: 27 Jul 2023 15:38

Instrument :
BNA_P
ClientSampleId :
ICVBP072723

Tgt Ion:127 Resp: 1846393

Ion	Ratio	Lower	Upper
127	100		
129	32.4	25.8	38.8
65	27.9	22.7	34.1
92	18.7	14.9	22.3

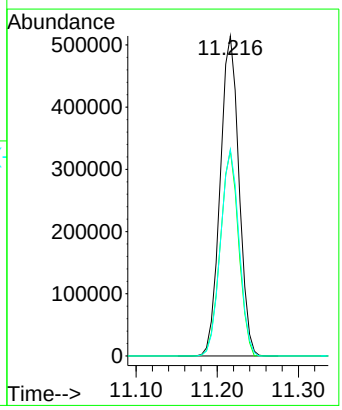


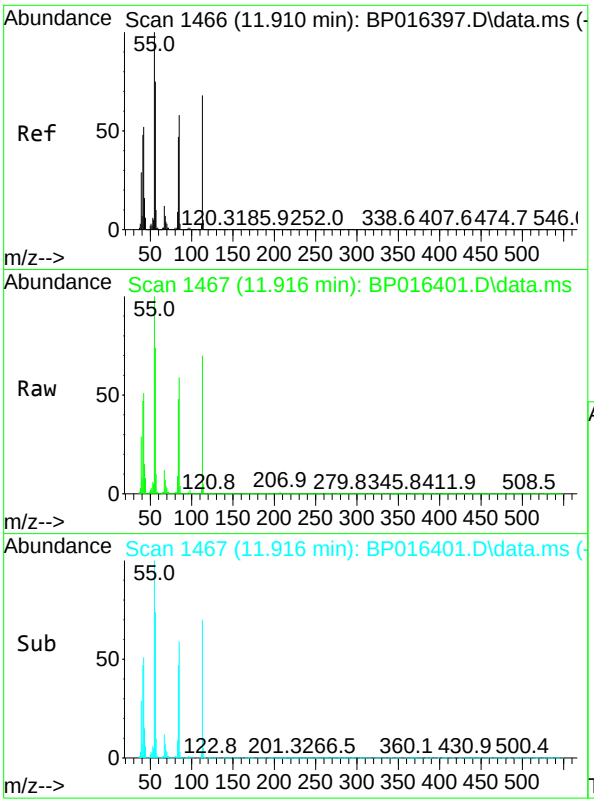


#34
Hexachlorobutadiene
Concen: 43.348 ng
RT: 11.216 min Scan# 1348
Delta R.T. -0.000 min
Lab File: BP016401.D
Acq: 27 Jul 2023 15:38

Tgt Ion:225 Resp: 827166

Ion	Ratio	Lower	Upper
225	100		
223	64.4	50.2	75.4
227	64.5	51.0	76.6



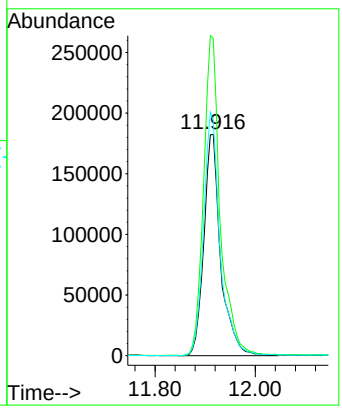


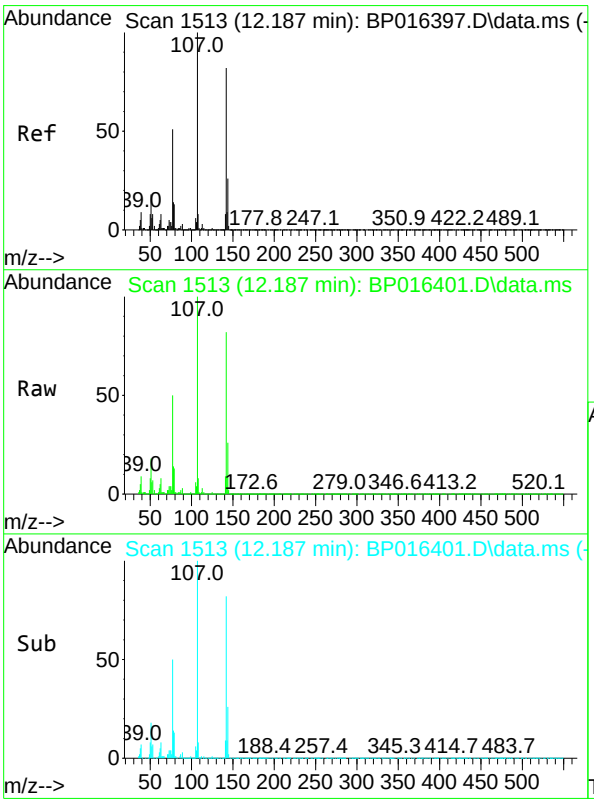
#35
Caprolactam
Concen: 39.038 ng
RT: 11.916 min Scan# 14
Delta R.T. 0.006 min
Lab File: BP016401.D
Acq: 27 Jul 2023 15:38

Instrument :
BNA_P
ClientSampleId :
ICVBP072723

Tgt Ion:113 Resp: 424470

Ion	Ratio	Lower	Upper
113	100		
55	143.4	128.0	168.0
56	106.1	91.3	131.3

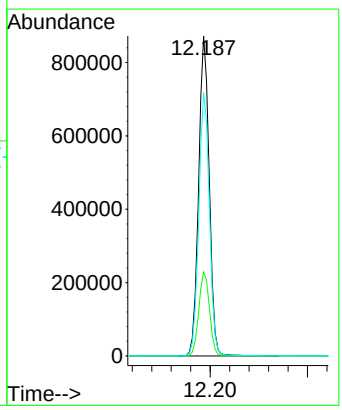


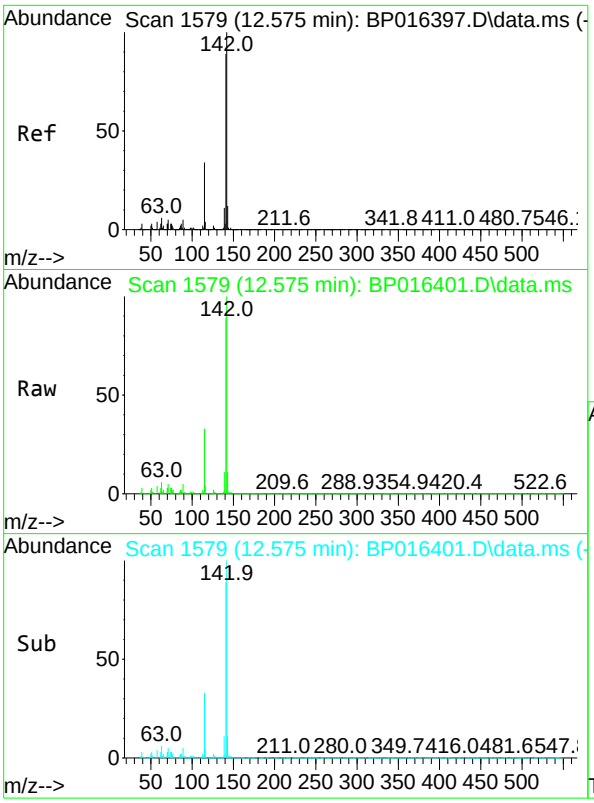


#36
4-Chloro-3-methylphenol
Concen: 39.936 ng
RT: 12.187 min Scan# 1513
Delta R.T. -0.000 min
Lab File: BP016401.D
Acq: 27 Jul 2023 15:38

Tgt Ion:107 Resp: 1320939

Ion	Ratio	Lower	Upper
107	100		
144	26.2	21.0	31.6
142	82.3	65.6	98.4



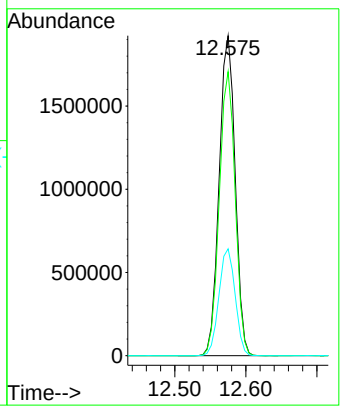


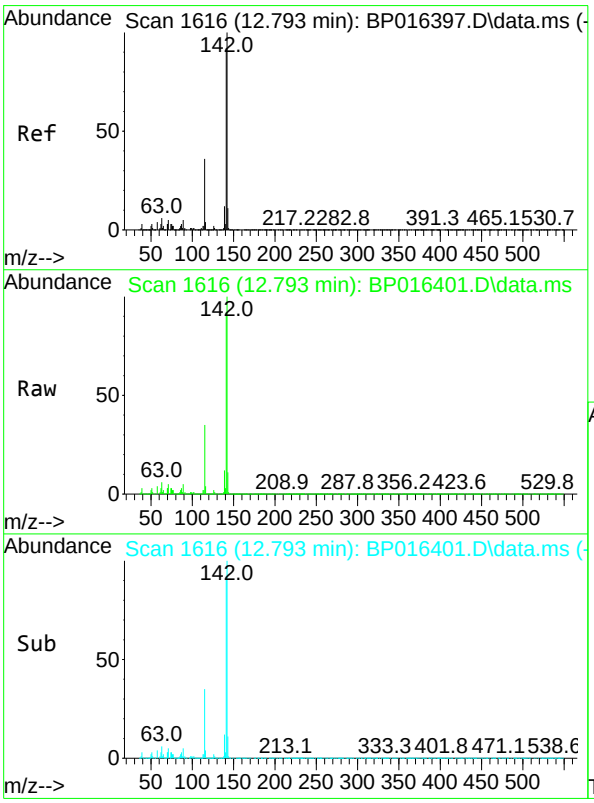
#37
2-Methylnaphthalene
Concen: 39.972 ng
RT: 12.575 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP016401.D
Acq: 27 Jul 2023 15:38

Instrument :
BNA_P
ClientSampleId :
ICVBP072723

Tgt Ion:142 Resp: 2993150

Ion	Ratio	Lower	Upper
142	100		
141	88.7	71.4	107.2
115	33.4	27.0	40.4

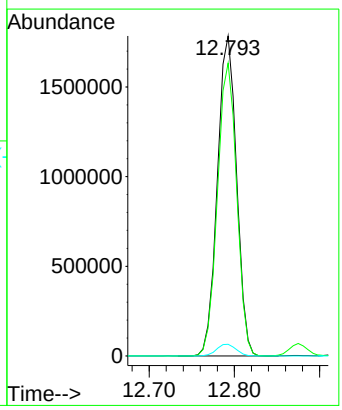


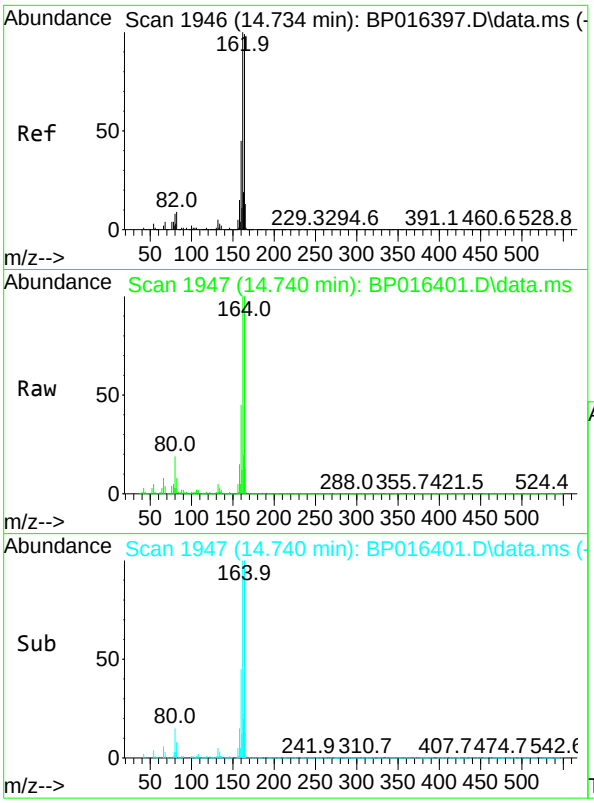


#38
1-Methylnaphthalene
Concen: 39.703 ng
RT: 12.793 min Scan# 1616
Delta R.T. -0.000 min
Lab File: BP016401.D
Acq: 27 Jul 2023 15:38

Tgt Ion:142 Resp: 2787268

Ion	Ratio	Lower	Upper
142	100		
141	91.5	73.8	110.6
116	3.6	2.9	4.3



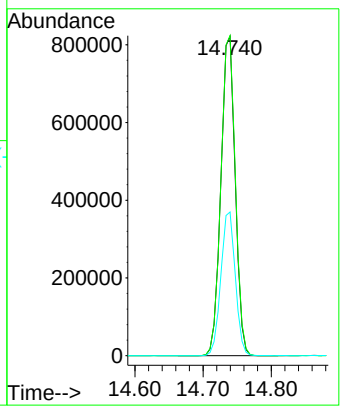


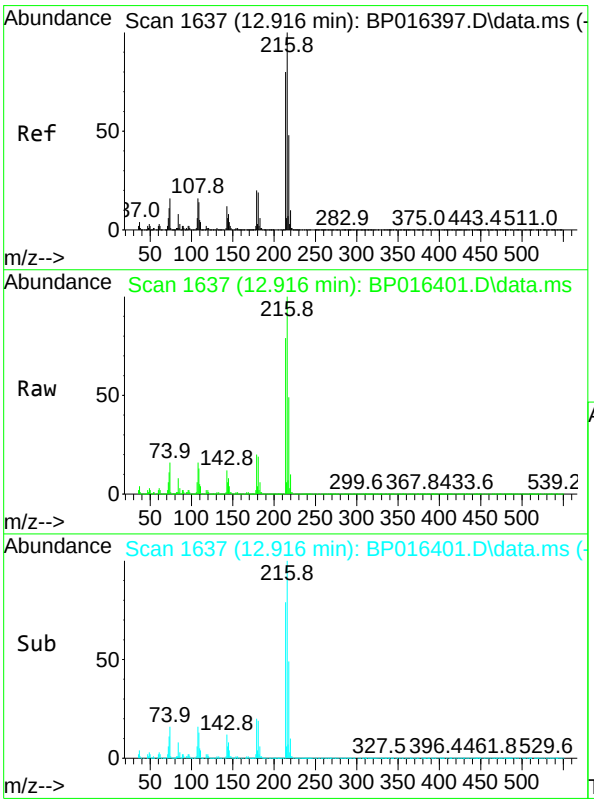
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.740 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP016401.D
Acq: 27 Jul 2023 15:38

Instrument :
BNA_P
ClientSampleId :
ICVBP072723

Tgt Ion:164 Resp: 1197271

Ion	Ratio	Lower	Upper
164	100		
162	100.2	81.0	121.6
160	45.0	36.6	55.0

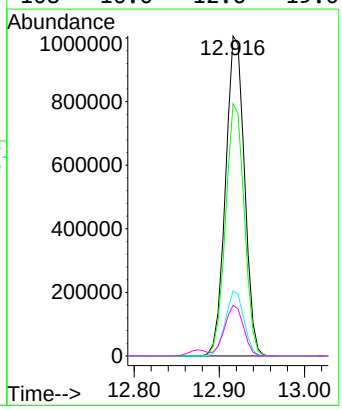


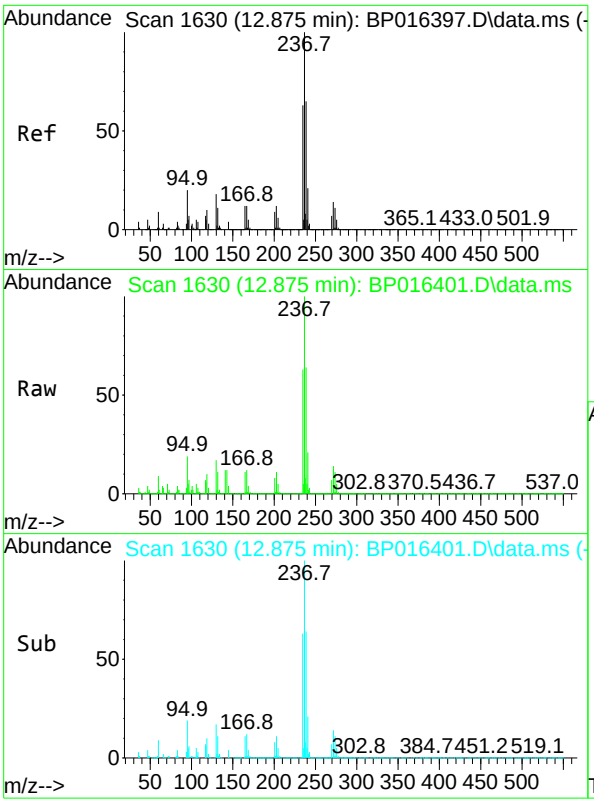


#40
1,2,4,5-Tetrachlorobenzene
Concen: 42.664 ng
RT: 12.916 min Scan# 1637
Delta R.T. -0.000 min
Lab File: BP016401.D
Acq: 27 Jul 2023 15:38

Tgt Ion:216 Resp: 1552295

Ion	Ratio	Lower	Upper
216	100		
214	78.1	62.8	94.2
179	20.0	16.0	24.0
108	16.0	12.6	19.0



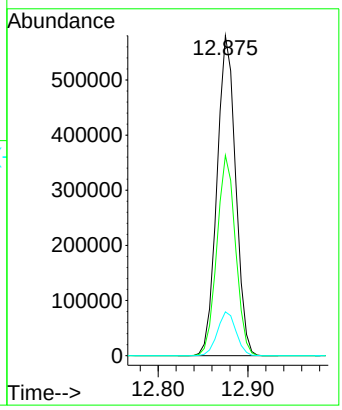


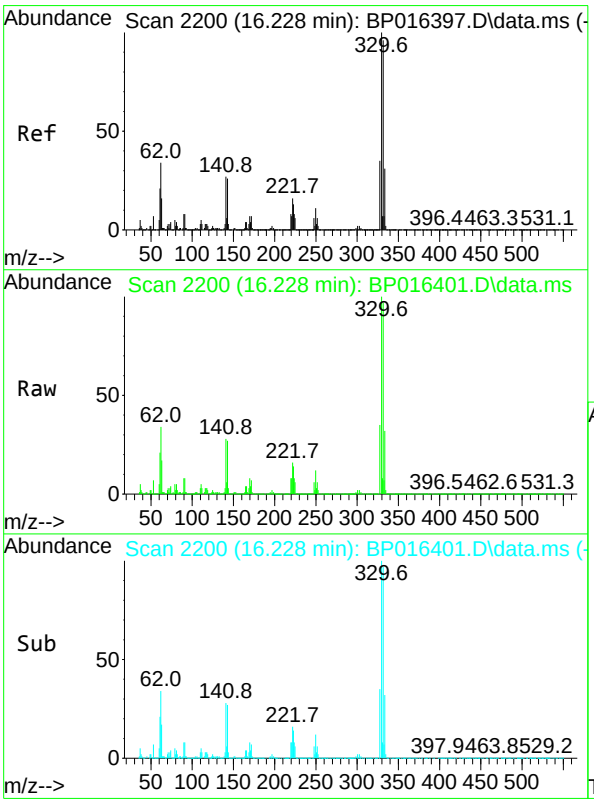
#41
Hexachlorocyclopentadiene
Concen: 45.884 ng
RT: 12.875 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP016401.D
Acq: 27 Jul 2023 15:38

Instrument :
BNA_P
ClientSampleId :
ICVBP072723

Tgt Ion:237 Resp: 838455

Ion	Ratio	Lower	Upper
237	100		
235	62.6	42.7	82.7
272	13.7	0.0	33.5

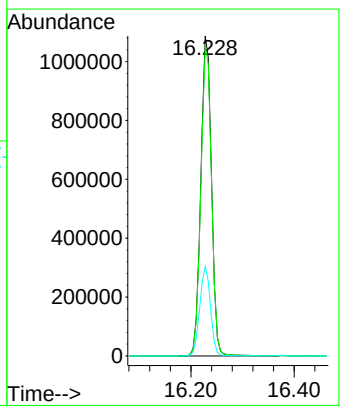


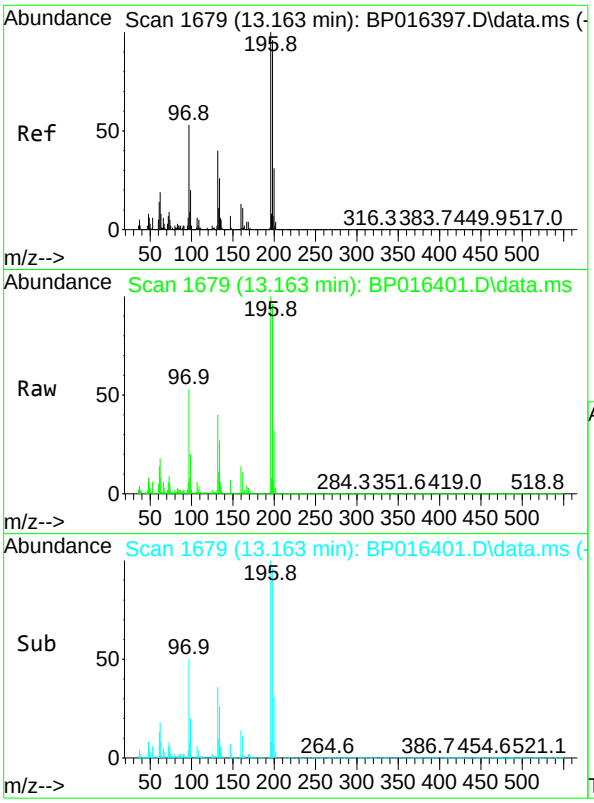


#42
2,4,6-Tribromophenol
Concen: 88.205 ng
RT: 16.228 min Scan# 2200
Delta R.T. -0.000 min
Lab File: BP016401.D
Acq: 27 Jul 2023 15:38

Tgt Ion:330 Resp: 1553600

Ion	Ratio	Lower	Upper
330	100		
332	97.1	77.8	116.8
141	28.1	22.6	34.0



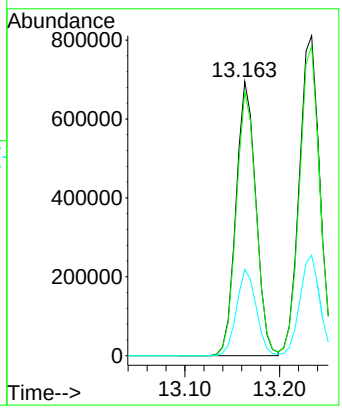


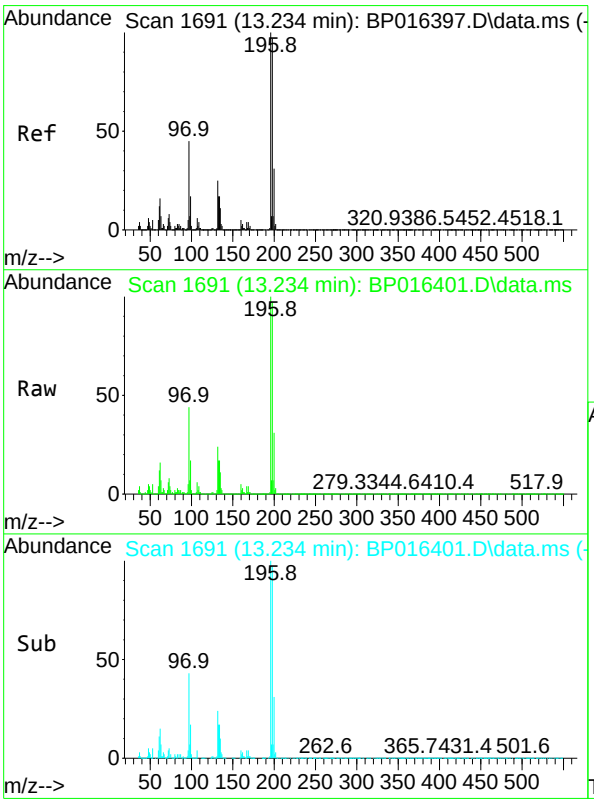
#43
2,4,6-Trichlorophenol
Concen: 43.378 ng
RT: 13.163 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP016401.D
Acq: 27 Jul 2023 15:38

Instrument :
BNA_P
ClientSampleId :
ICVBP072723

Tgt Ion:196 Resp: 1012684

Ion	Ratio	Lower	Upper
196	100		
198	96.3	77.0	115.4
200	31.5	24.5	36.7

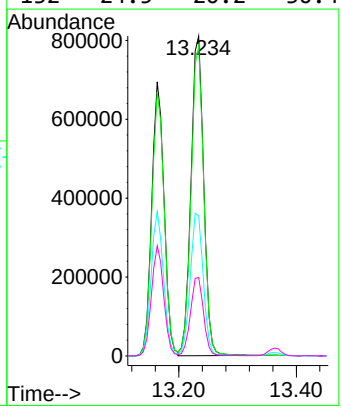


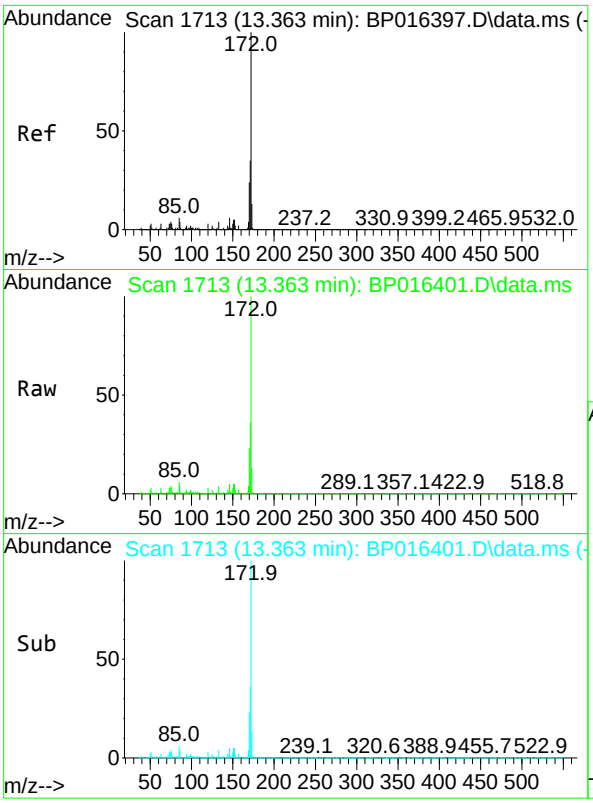


#44
2,4,5-Trichlorophenol
Concen: 43.019 ng
RT: 13.234 min Scan# 1691
Delta R.T. -0.000 min
Lab File: BP016401.D
Acq: 27 Jul 2023 15:38

Tgt Ion:196 Resp: 1218437

Ion	Ratio	Lower	Upper
196	100		
198	96.8	77.3	115.9
97	43.8	36.2	54.4
132	24.5	20.2	30.4



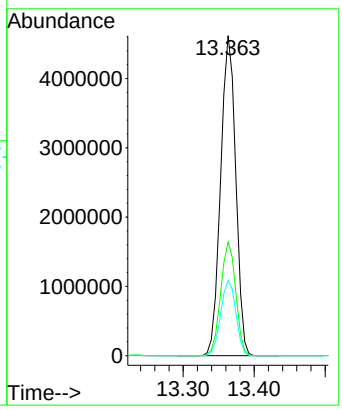


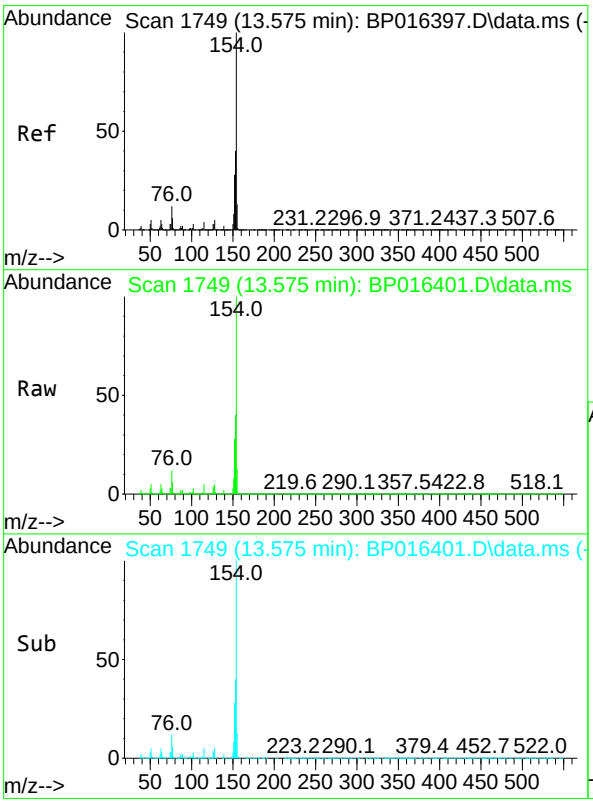
#45
2-Fluorobiphenyl
Concen: 81.313 ng
RT: 13.363 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP016401.D
Acq: 27 Jul 2023 15:38

Instrument :
BNA_P
ClientSampleId :
ICVBP072723

Tgt Ion:172 Resp: 6790480

Ion	Ratio	Lower	Upper
172	100		
171	35.6	28.2	42.2
170	23.5	19.1	28.7

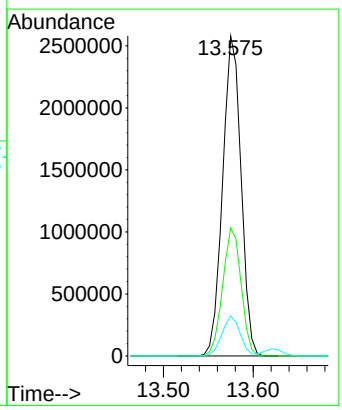


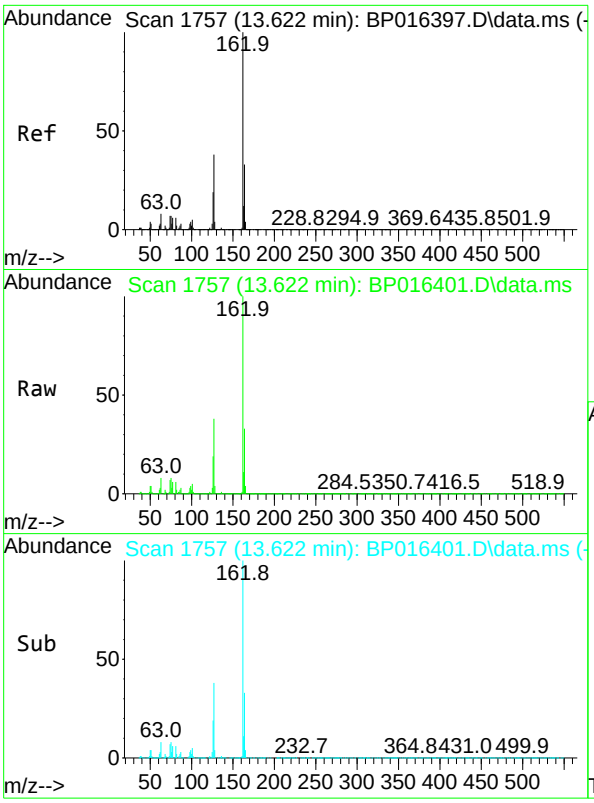


#46
1,1'-Biphenyl
Concen: 40.246 ng
RT: 13.575 min Scan# 1749
Delta R.T. -0.000 min
Lab File: BP016401.D
Acq: 27 Jul 2023 15:38

Tgt Ion:154 Resp: 3673113

Ion	Ratio	Lower	Upper
154	100		
153	39.9	20.1	60.1
76	12.4	0.0	32.5



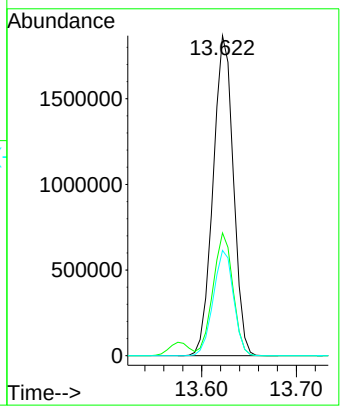


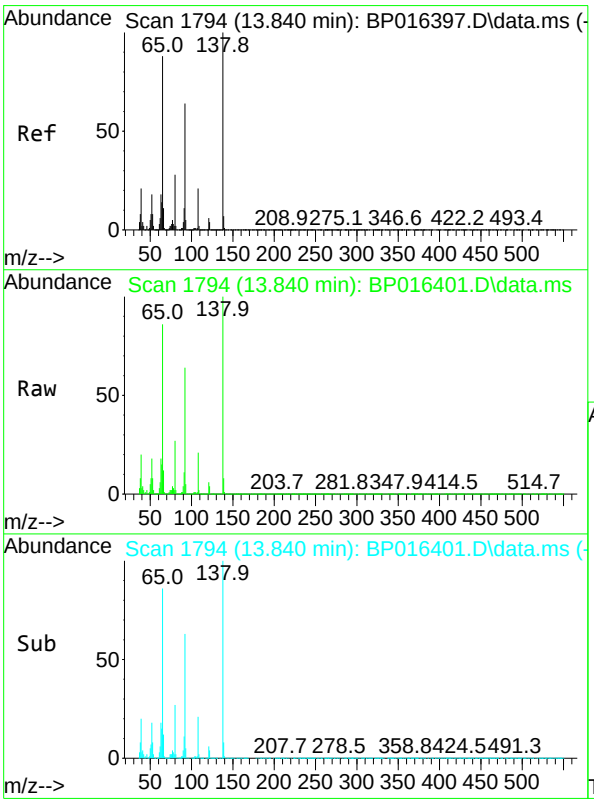
#47
2-Chloronaphthalene
Concen: 40.371 ng
RT: 13.622 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP016401.D
Acq: 27 Jul 2023 15:38

Instrument :
BNA_P
ClientSampleId :
ICVBP072723

Tgt Ion:162 Resp: 2779733

Ion	Ratio	Lower	Upper
162	100		
127	38.4	30.1	45.1
164	32.9	26.6	39.8

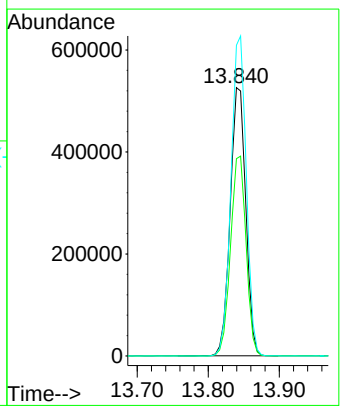


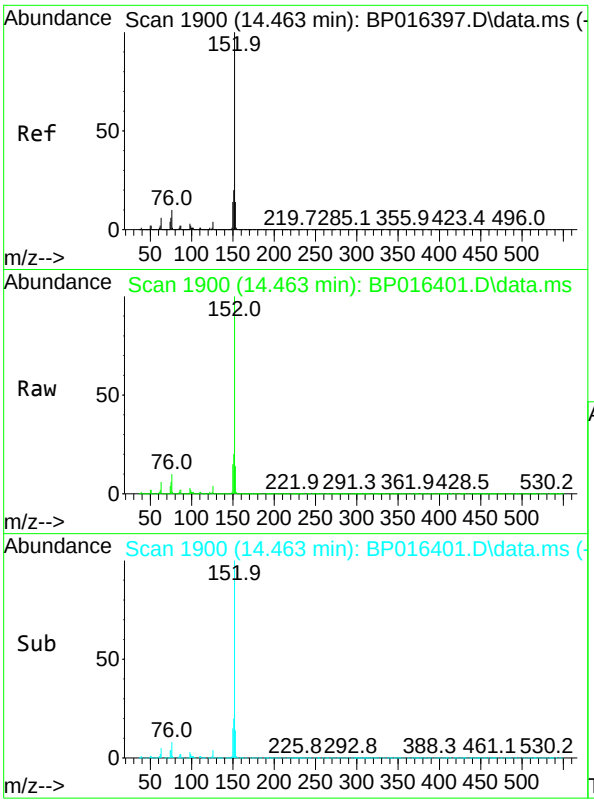


#48
2-Nitroaniline
Concen: 41.373 ng
RT: 13.840 min Scan# 1794
Delta R.T. -0.000 min
Lab File: BP016401.D
Acq: 27 Jul 2023 15:38

Tgt Ion: 65 Resp: 802990

Ion	Ratio	Lower	Upper
65	100		
92	73.6	58.2	87.4
138	115.8	91.3	136.9



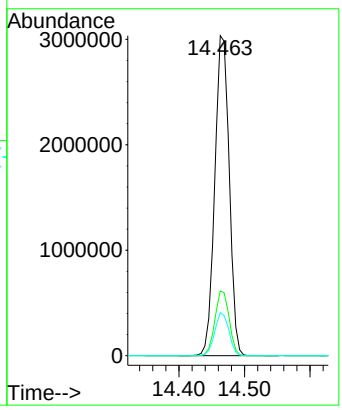


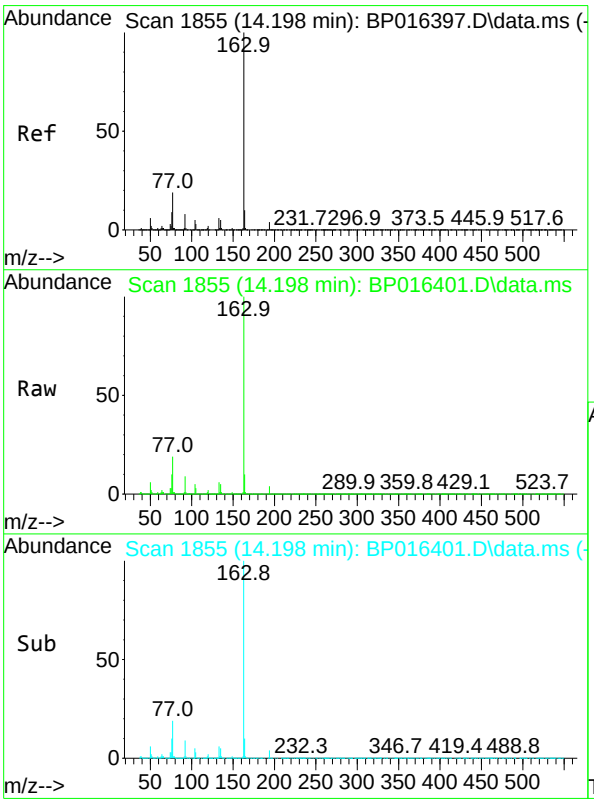
#49
Acenaphthylene
Concen: 40.487 ng
RT: 14.463 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP016401.D
Acq: 27 Jul 2023 15:38

Instrument :
BNA_P
ClientSampleId :
ICVBP072723

Tgt Ion:152 Resp: 4625323

Ion	Ratio	Lower	Upper
152	100		
151	20.3	16.2	24.4
153	13.5	10.8	16.2

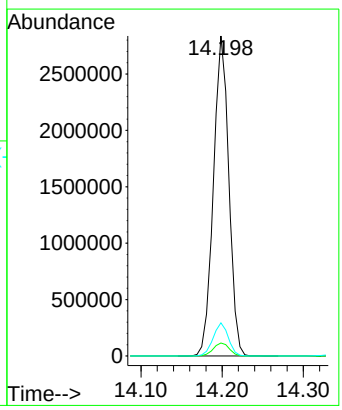


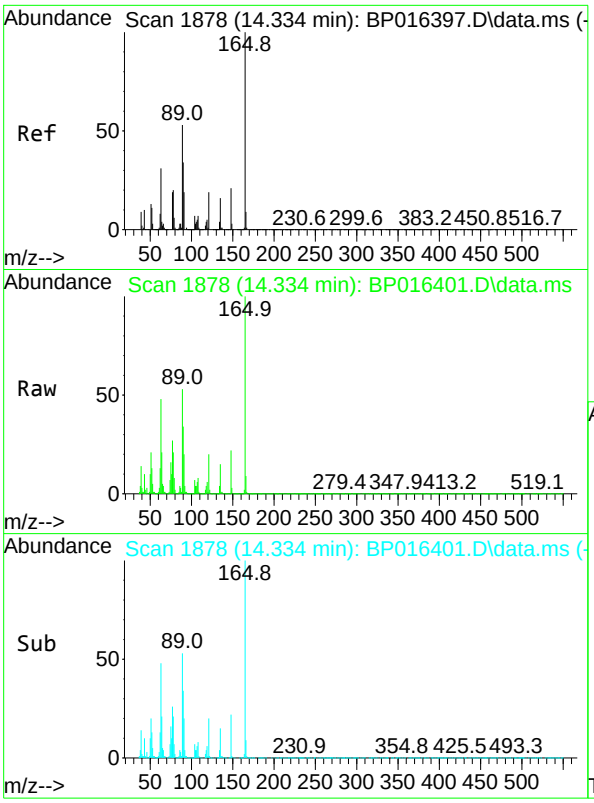


#50
Dimethylphthalate
Concen: 40.074 ng
RT: 14.198 min Scan# 1855
Delta R.T. -0.000 min
Lab File: BP016401.D
Acq: 27 Jul 2023 15:38

Tgt Ion:163 Resp: 3738898

Ion	Ratio	Lower	Upper
163	100		
194	4.1	3.4	5.2
164	10.4	8.2	12.2



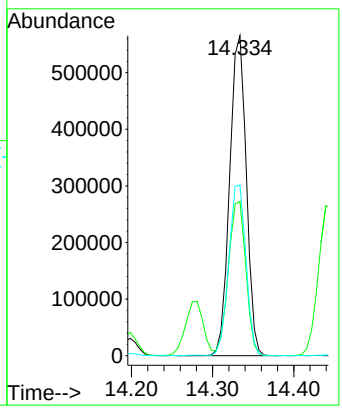


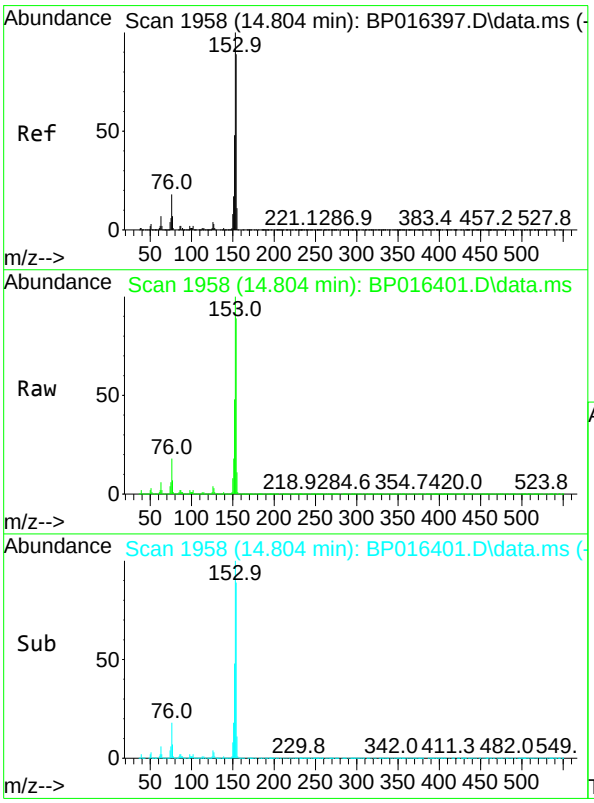
#51
2,6-Dinitrotoluene
Concen: 42.120 ng
RT: 14.334 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP016401.D
Acq: 27 Jul 2023 15:38

Instrument :
BNA_P
ClientSampleId :
ICVBP072723

Tgt Ion:165 Resp: 805065

Ion	Ratio	Lower	Upper
165	100		
63	48.2	39.1	58.7
89	53.4	42.5	63.7

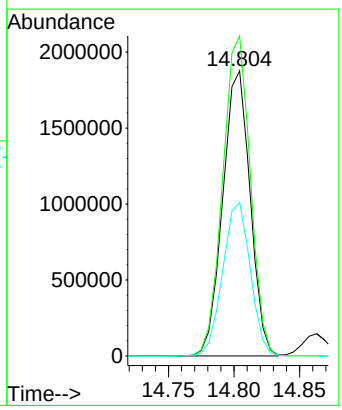


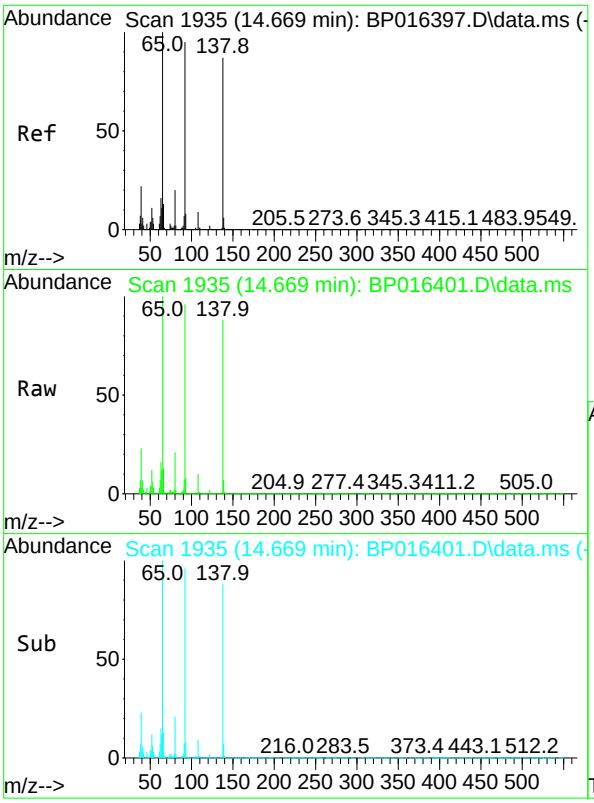


#52
Acenaphthene
Concen: 40.130 ng
RT: 14.804 min Scan# 1958
Delta R.T. -0.000 min
Lab File: BP016401.D
Acq: 27 Jul 2023 15:38

Tgt Ion:154 Resp: 2726258

Ion	Ratio	Lower	Upper
154	100		
153	112.3	90.4	135.6
152	53.8	43.4	65.0



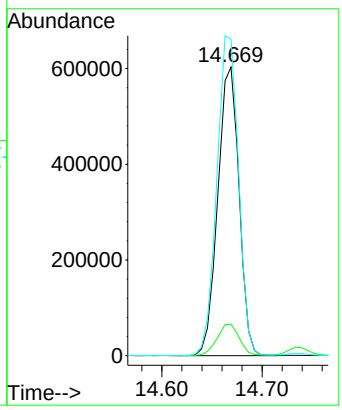


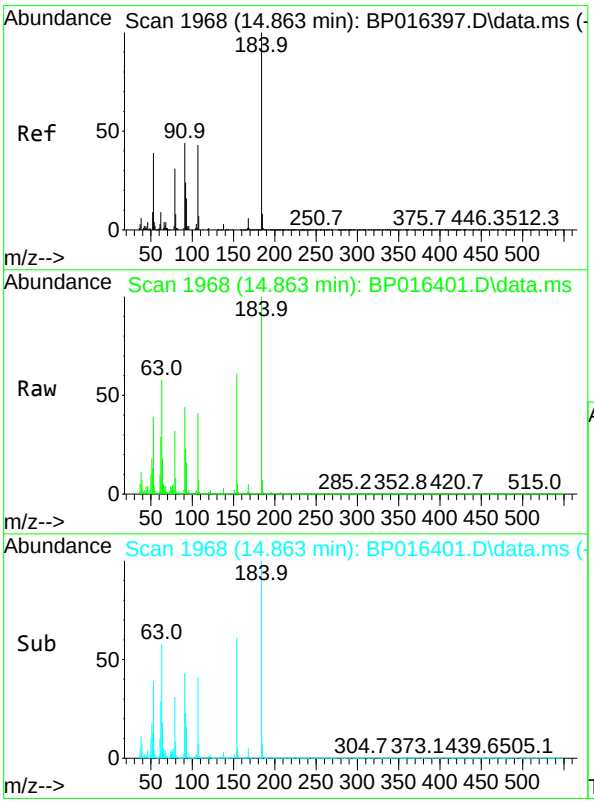
#53
3-Nitroaniline
Concen: 41.051 ng
RT: 14.669 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP016401.D
Acq: 27 Jul 2023 15:38

Instrument :
BNA_P
ClientSampleId :
ICVBP072723

Tgt Ion:138 Resp: 887059

Ion	Ratio	Lower	Upper
138	100		
108	10.9	8.7	13.1
92	109.7	87.6	131.4

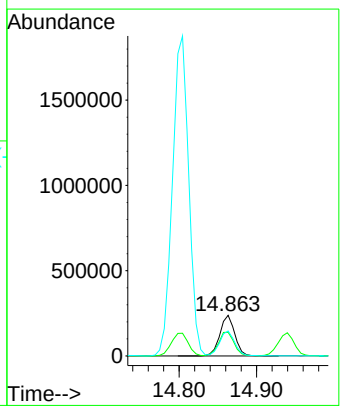


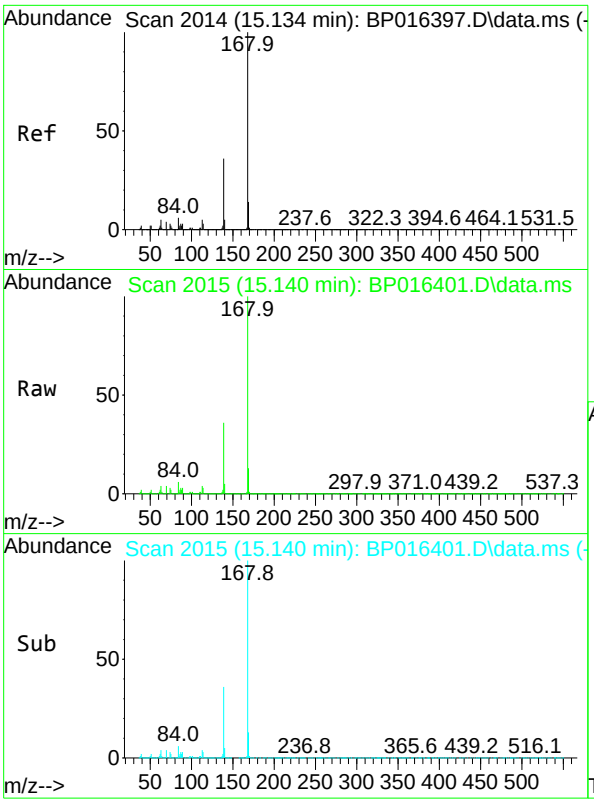


#54
2,4-Dinitrophenol
Concen: 40.125 ng
RT: 14.863 min Scan# 1968
Delta R.T. 0.000 min
Lab File: BP016401.D
Acq: 27 Jul 2023 15:38

Tgt Ion:184 Resp: 319154

Ion	Ratio	Lower	Upper
184	100		
63	58.3	48.2	72.4
154	61.5	49.6	74.4



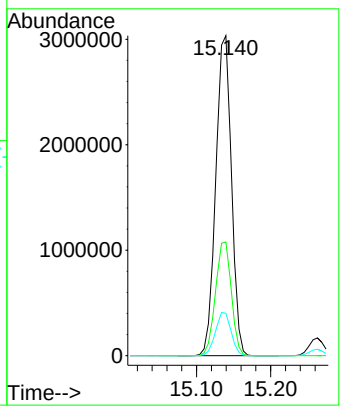


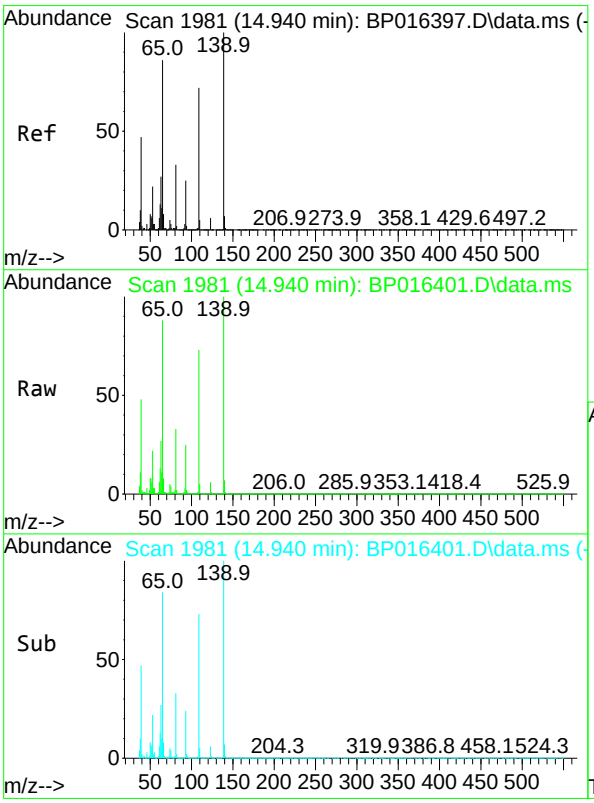
#55
Dibenzofuran
Concen: 39.919 ng
RT: 15.140 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP016401.D
Acq: 27 Jul 2023 15:38

Instrument :
BNA_P
ClientSampleId :
ICVBP072723

Tgt Ion:168 Resp: 4447694

Ion	Ratio	Lower	Upper
168	100		
139	35.6	28.9	43.3
169	13.3	11.0	16.4

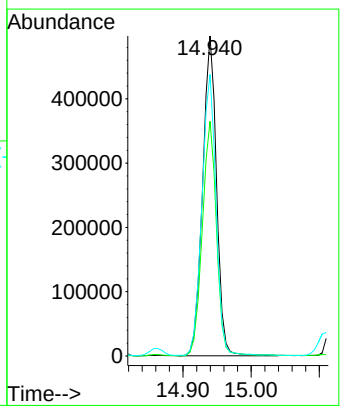


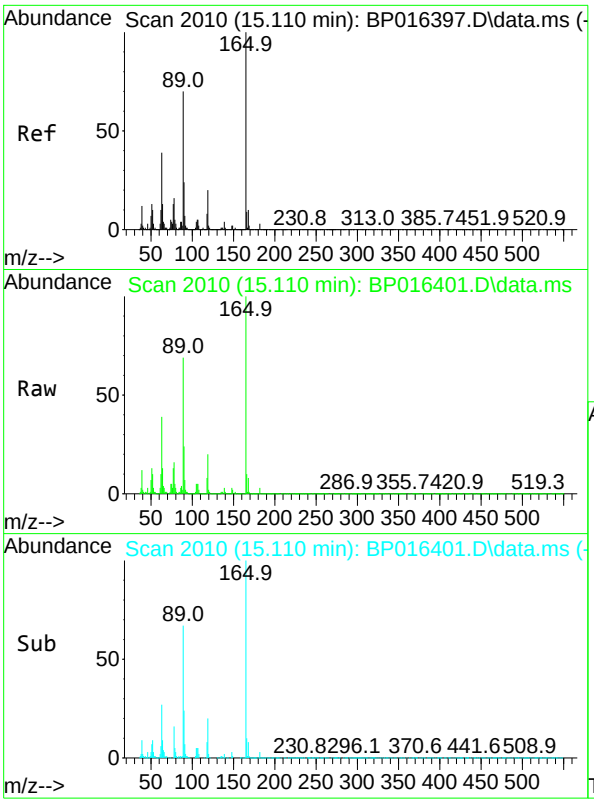


#56
4-Nitrophenol
Concen: 41.827 ng
RT: 14.940 min Scan# 1981
Delta R.T. -0.000 min
Lab File: BP016401.D
Acq: 27 Jul 2023 15:38

Tgt Ion:139 Resp: 707510

Ion	Ratio	Lower	Upper
139	100		
109	73.4	51.9	91.9
65	88.0	66.2	106.2



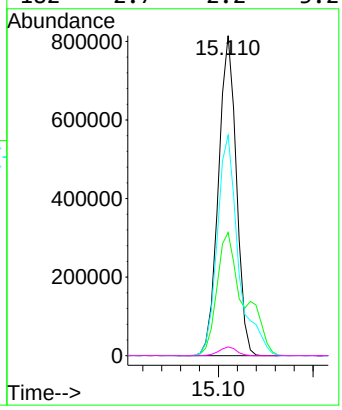


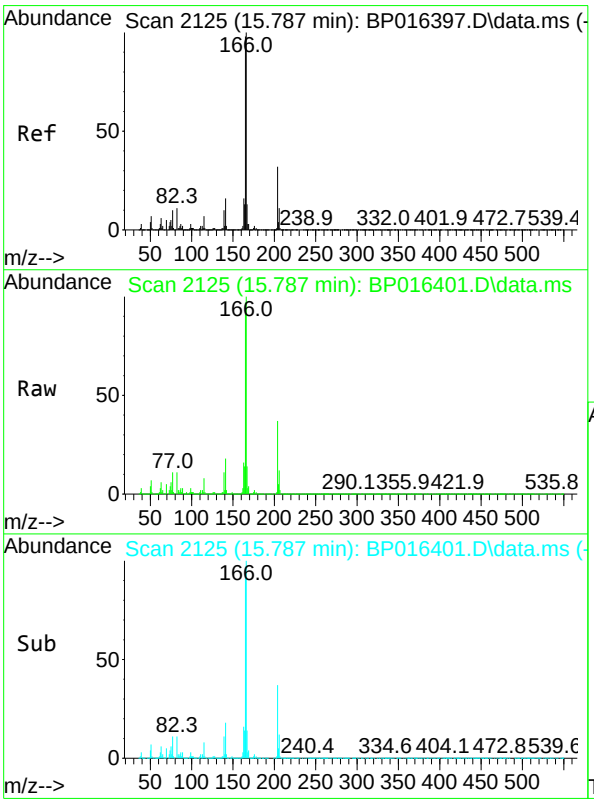
#57
2,4-Dinitrotoluene
Concen: 43.018 ng
RT: 15.110 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP016401.D
Acq: 27 Jul 2023 15:38

Instrument :
BNA_P
ClientSampleId :
ICVBP072723

Tgt Ion:165 Resp: 1071573

Ion	Ratio	Lower	Upper
165	100		
63	38.5	31.4	47.0
89	68.9	55.8	83.6
182	2.7	2.2	3.2

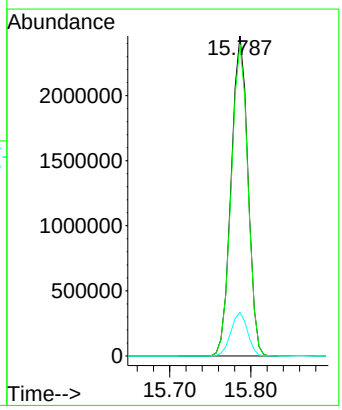


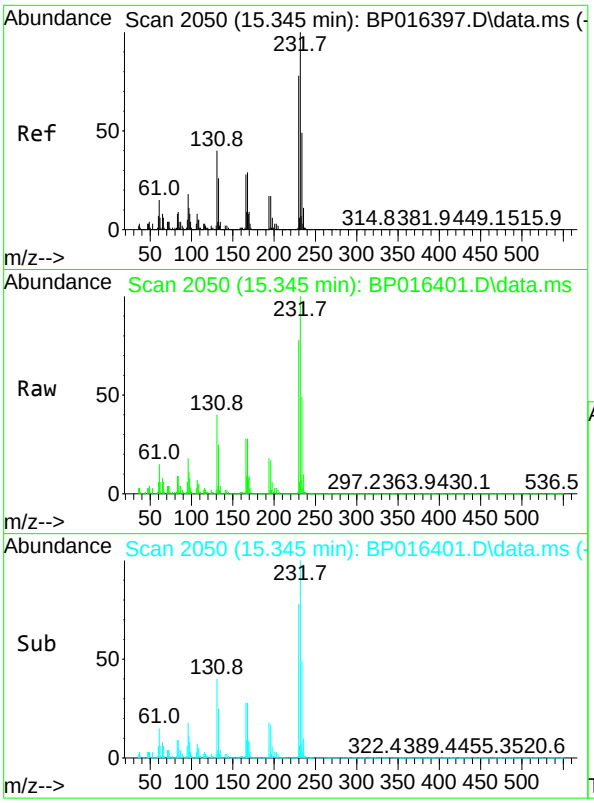


#58
Fluorene
Concen: 40.008 ng
RT: 15.787 min Scan# 2125
Delta R.T. -0.000 min
Lab File: BP016401.D
Acq: 27 Jul 2023 15:38

Tgt Ion:166 Resp: 3502069

Ion	Ratio	Lower	Upper
166	100		
165	97.3	78.0	117.0
167	13.6	10.6	16.0



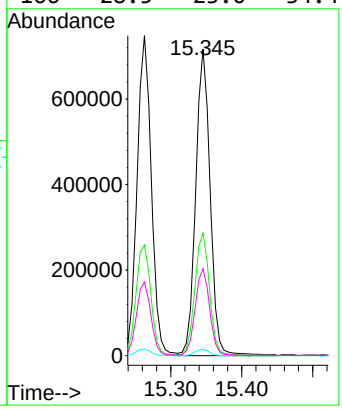


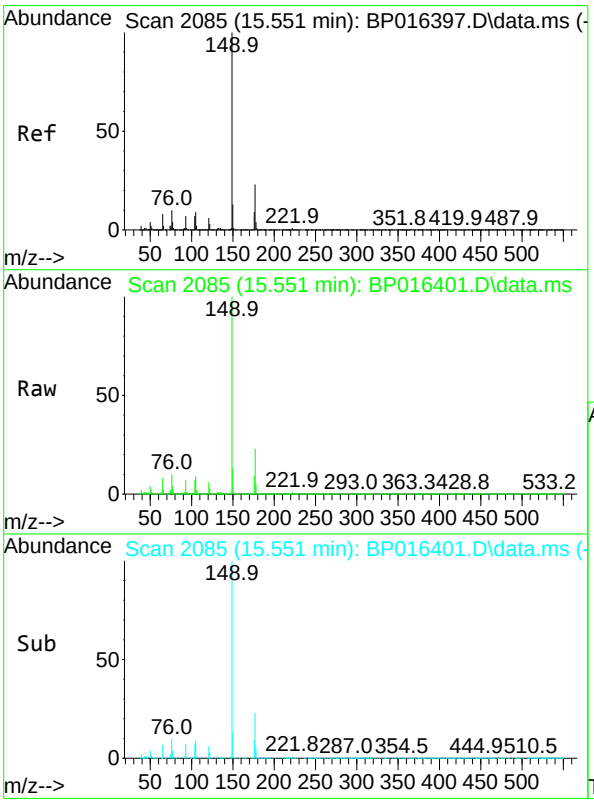
#59
2,3,4,6-Tetrachlorophenol
Concen: 43.640 ng
RT: 15.345 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP016401.D
Acq: 27 Jul 2023 15:38

Instrument :
BNA_P
ClientSampleId :
ICVBP072723

Tgt Ion:232 Resp: 1016776

Ion	Ratio	Lower	Upper
232	100		
131	40.1	33.1	49.7
130	2.1	1.8	2.8
166	28.5	23.0	34.4

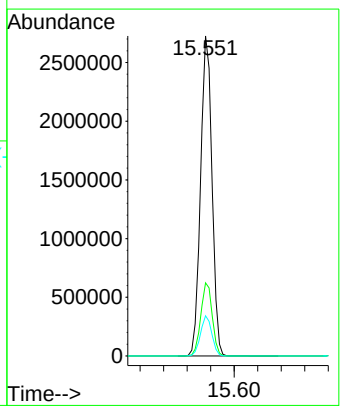


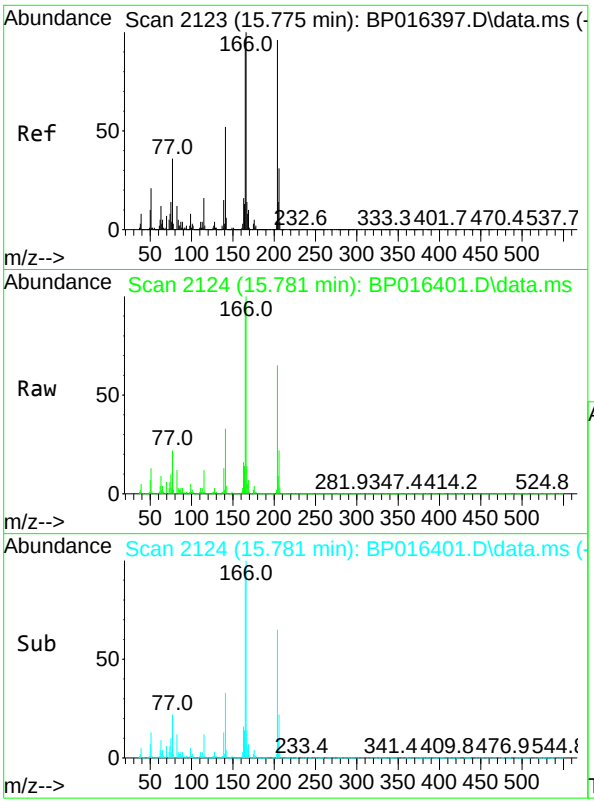


#60
Diethylphthalate
Concen: 39.527 ng
RT: 15.551 min Scan# 2085
Delta R.T. -0.000 min
Lab File: BP016401.D
Acq: 27 Jul 2023 15:38

Tgt Ion:149 Resp: 3664876

Ion	Ratio	Lower	Upper
149	100		
177	22.9	18.6	27.8
150	12.6	10.1	15.1



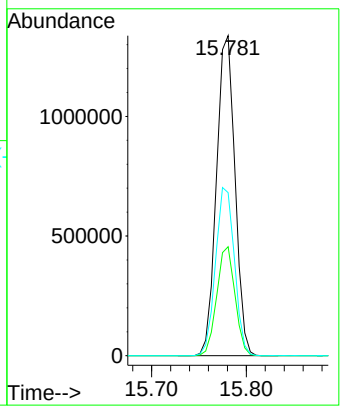


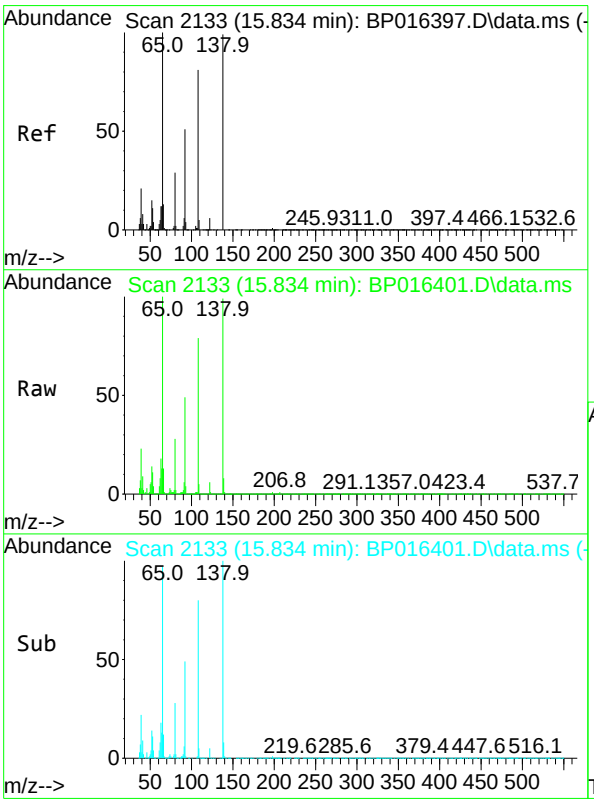
#61
4-Chlorophenyl-phenylether
Concen: 41.212 ng
RT: 15.781 min Scan# 21
Delta R.T. 0.006 min
Lab File: BP016401.D
Acq: 27 Jul 2023 15:38

Instrument :
BNA_P
ClientSampleId :
ICVBP072723

Tgt Ion:204 Resp: 1820379

Ion	Ratio	Lower	Upper
204	100		
206	34.0	26.2	39.4
141	51.0	43.4	65.0

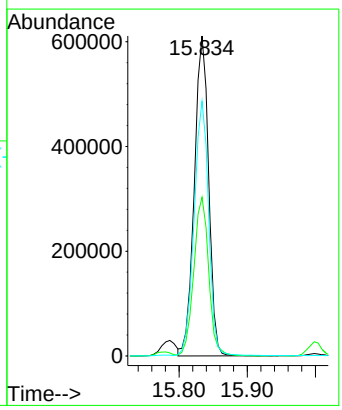


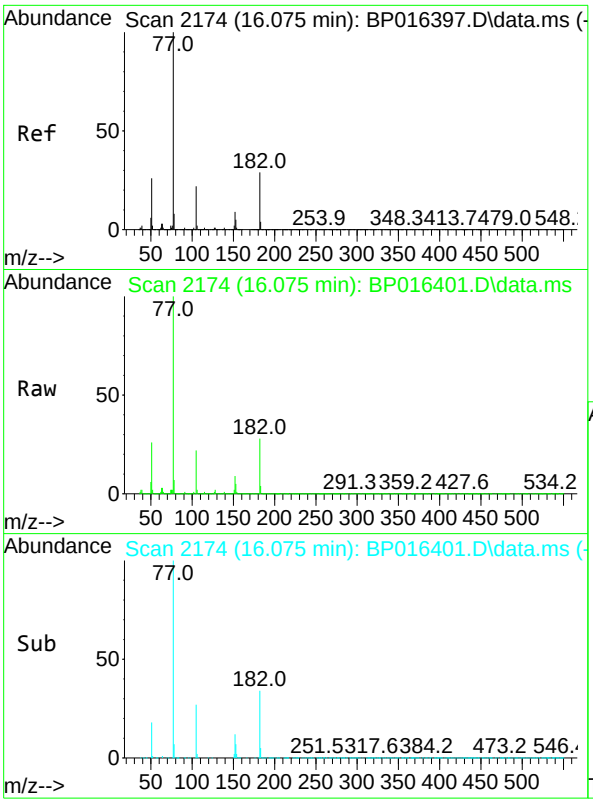


#62
4-Nitroaniline
Concen: 41.534 ng
RT: 15.834 min Scan# 2133
Delta R.T. -0.000 min
Lab File: BP016401.D
Acq: 27 Jul 2023 15:38

Tgt Ion:138 Resp: 890681

Ion	Ratio	Lower	Upper
138	100		
92	49.6	30.3	70.3
108	79.6	60.1	100.1



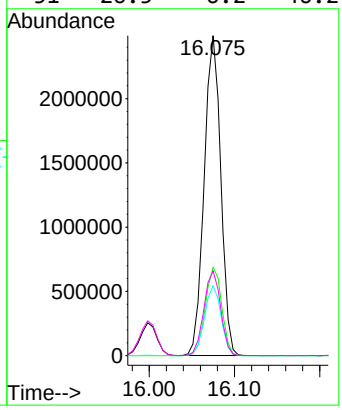


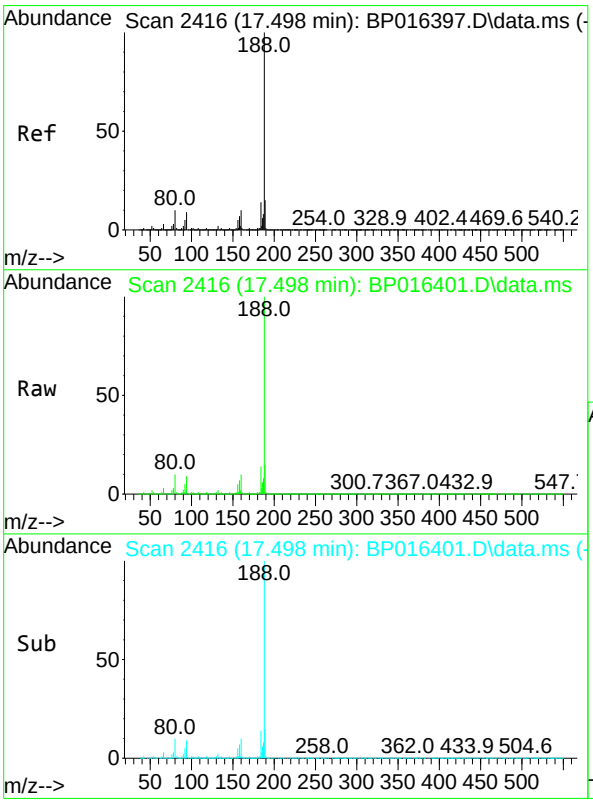
#63
Azobenzene
Concen: 38.441 ng
RT: 16.075 min Scan# 21
Delta R.T. -0.000 min
Lab File: BP016401.D
Acq: 27 Jul 2023 15:38

Instrument :
BNA_P
ClientSampleId :
ICVBP072723

Tgt Ion: 77 Resp: 3365406

Ion	Ratio	Lower	Upper
77	100		
182	27.6	8.6	48.6
105	21.8	2.4	42.4
51	26.5	6.2	46.2

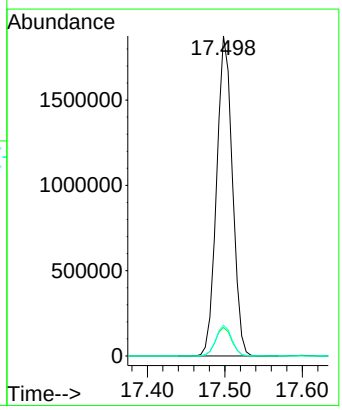


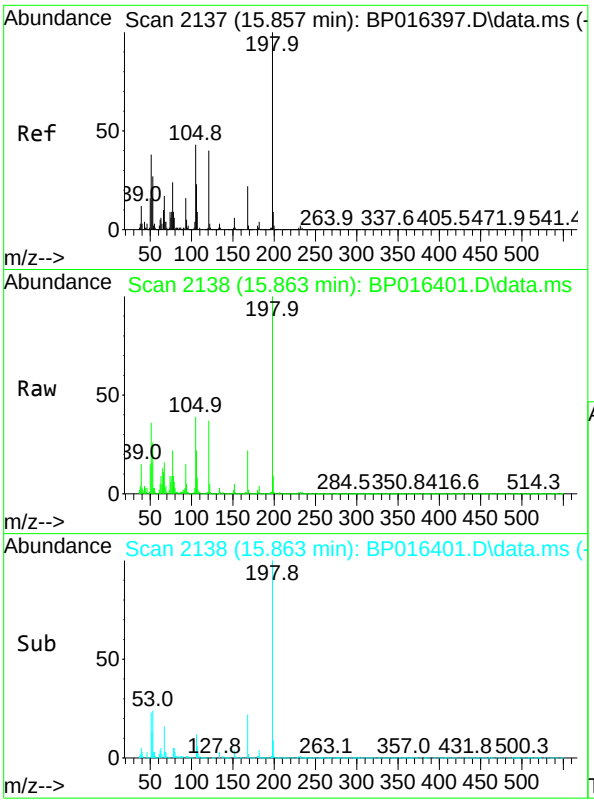


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.498 min Scan# 2416
Delta R.T. -0.000 min
Lab File: BP016401.D
Acq: 27 Jul 2023 15:38

Tgt Ion:188 Resp: 2650032

Ion	Ratio	Lower	Upper
188	100		
94	8.9	7.4	11.0
80	9.6	7.8	11.8



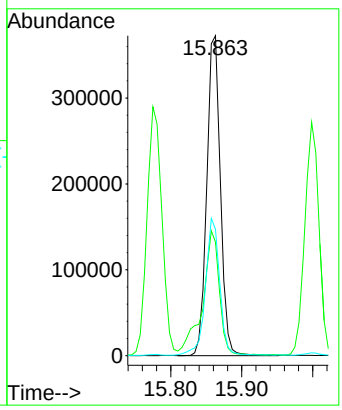


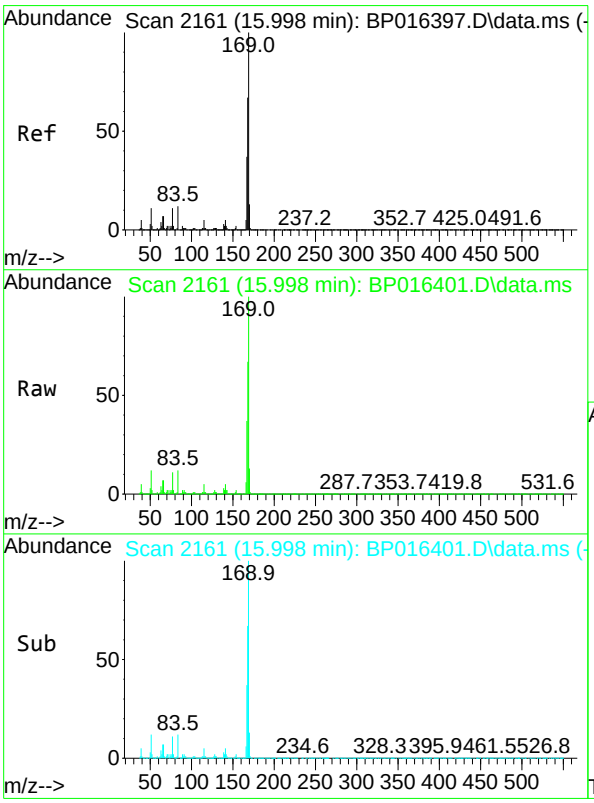
#65
4,6-Dinitro-2-methylphenol
Concen: 41.151 ng
RT: 15.863 min Scan# 21
Delta R.T. 0.006 min
Lab File: BP016401.D
Acq: 27 Jul 2023 15:38

Instrument :
BNA_P
ClientSampleId :
ICVBP072723

Tgt Ion:198 Resp: 497787

Ion	Ratio	Lower	Upper
198	100		
51	35.5	20.1	60.1
105	39.5	23.1	63.1

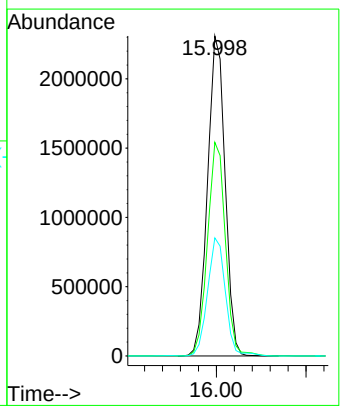


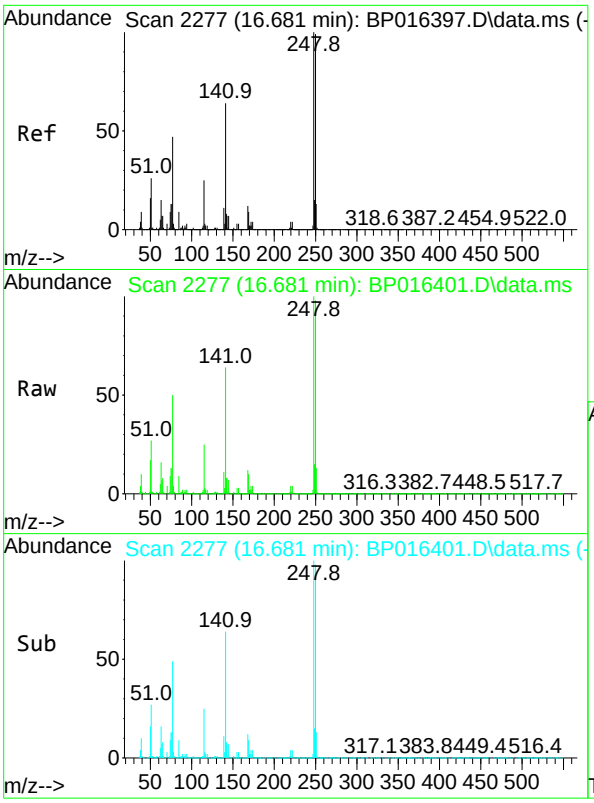


#66
n-Nitrosodiphenylamine
Concen: 40.026 ng
RT: 15.998 min Scan# 2161
Delta R.T. -0.000 min
Lab File: BP016401.D
Acq: 27 Jul 2023 15:38

Tgt Ion:169 Resp: 3125936

Ion	Ratio	Lower	Upper
169	100		
168	66.8	53.6	80.4
167	36.9	29.2	43.8



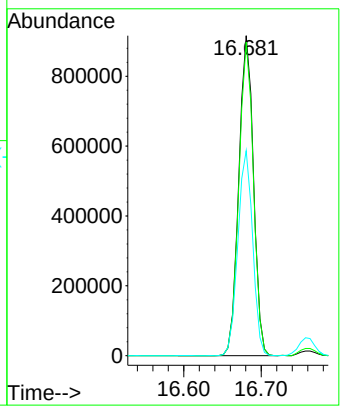


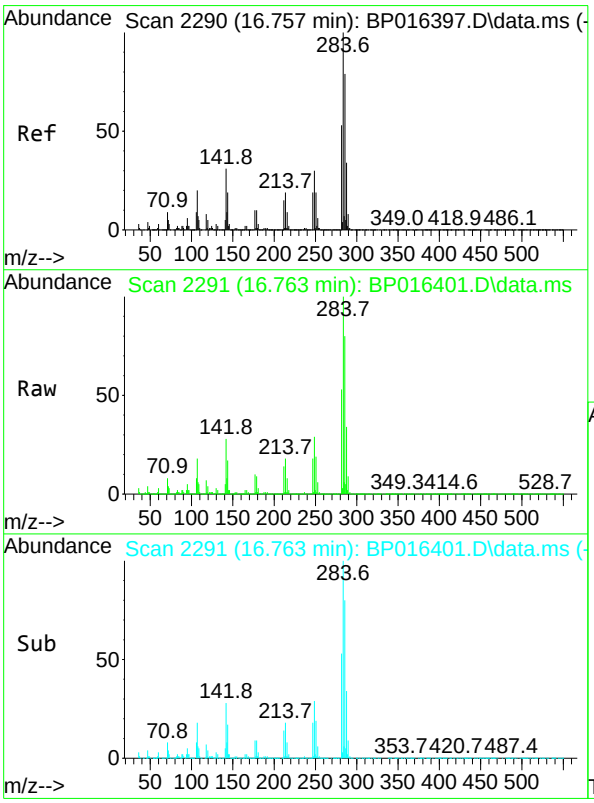
#67
4-Bromophenyl-phenylether
Concen: 42.889 ng
RT: 16.681 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP016401.D
Acq: 27 Jul 2023 15:38

Instrument :
BNA_P
ClientSampleId :
ICVBP072723

Tgt Ion:248 Resp: 1203484

Ion	Ratio	Lower	Upper
248	100		
250	98.0	78.9	118.3
141	64.0	51.0	76.4

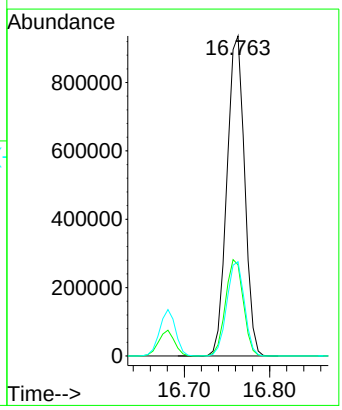


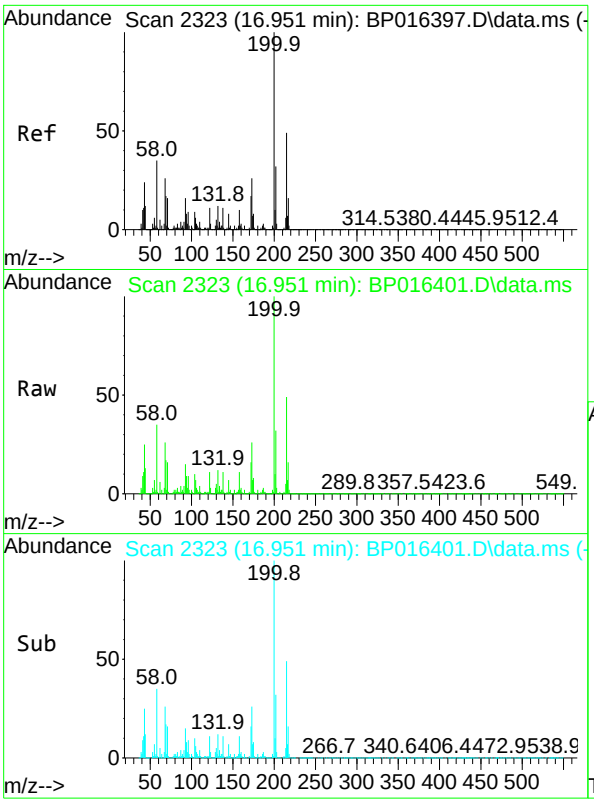


#68
Hexachlorobenzene
Concen: 43.036 ng
RT: 16.763 min Scan# 2291
Delta R.T. 0.006 min
Lab File: BP016401.D
Acq: 27 Jul 2023 15:38

Tgt Ion:284 Resp: 1346701

Ion	Ratio	Lower	Upper
284	100		
142	28.5	25.2	37.8
249	31.7	26.0	39.0



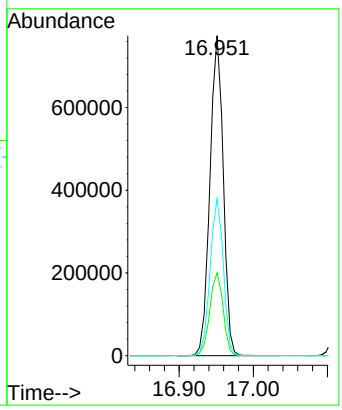


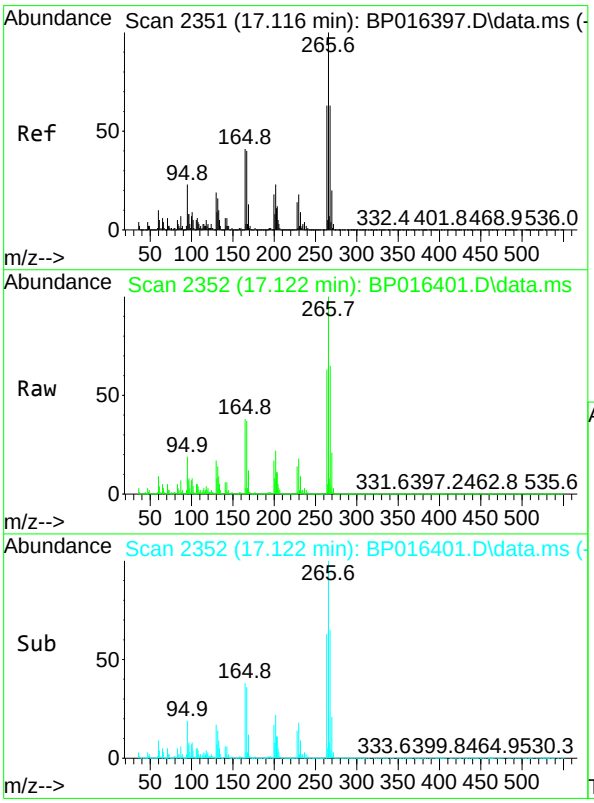
#69
Atrazine
Concen: 41.612 ng
RT: 16.951 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP016401.D
Acq: 27 Jul 2023 15:38

Instrument :
BNA_P
ClientSampleId :
ICVBP072723

Tgt Ion:200 Resp: 966497

Ion	Ratio	Lower	Upper
200	100		
173	25.8	5.8	45.8
215	48.9	29.2	69.2

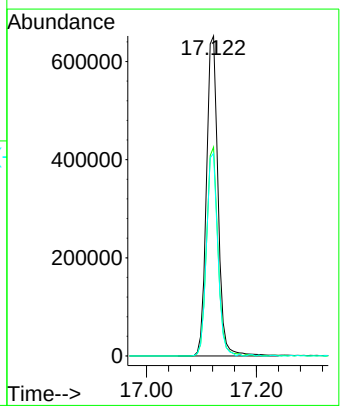


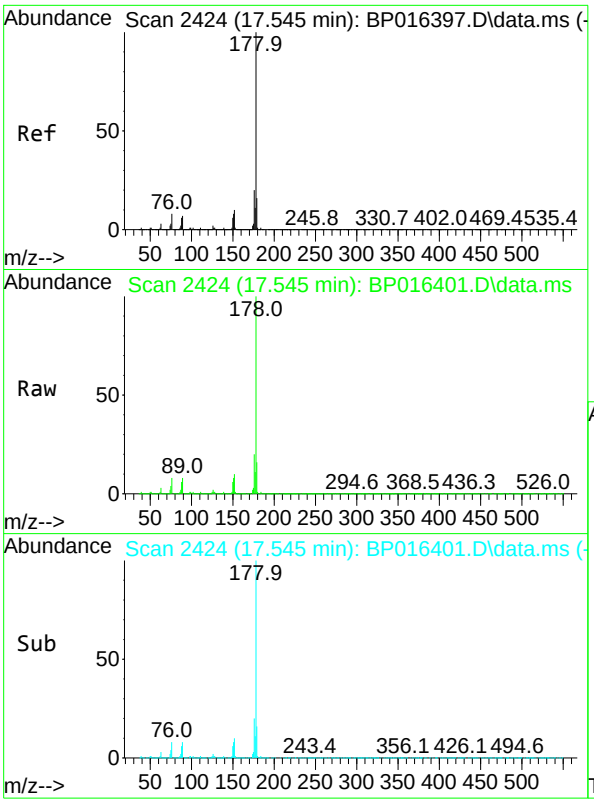


#70
Pentachlorophenol
Concen: 43.835 ng
RT: 17.122 min Scan# 2352
Delta R.T. 0.006 min
Lab File: BP016401.D
Acq: 27 Jul 2023 15:38

Tgt Ion:266 Resp: 949240

Ion	Ratio	Lower	Upper
266	100		
268	69.7	53.9	80.9
264	68.2	54.9	82.3



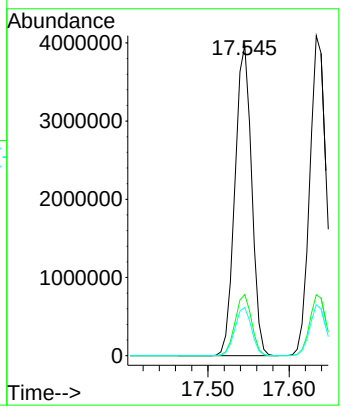


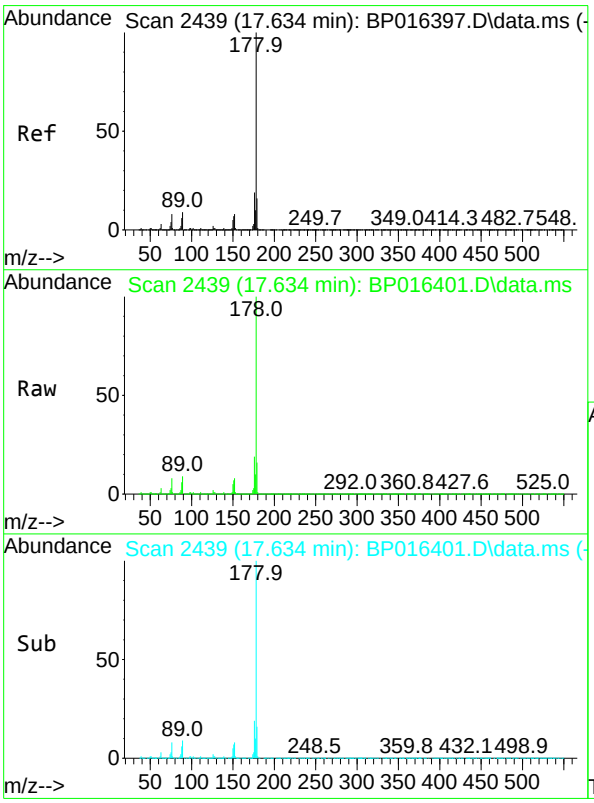
#71
Phenanthrene
Concen: 40.125 ng
RT: 17.545 min Scan# 24
Delta R.T. -0.000 min
Lab File: BP016401.D
Acq: 27 Jul 2023 15:38

Instrument :
BNA_P
ClientSampleId :
ICVBP072723

Tgt Ion:178 Resp: 5646230

Ion	Ratio	Lower	Upper
178	100		
176	19.7	15.8	23.8
179	15.6	12.4	18.6

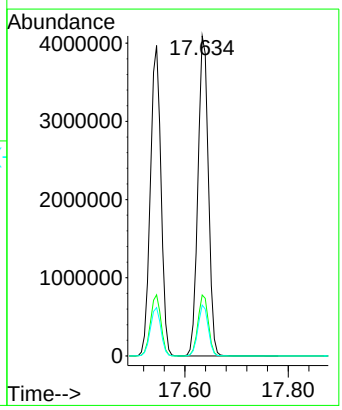


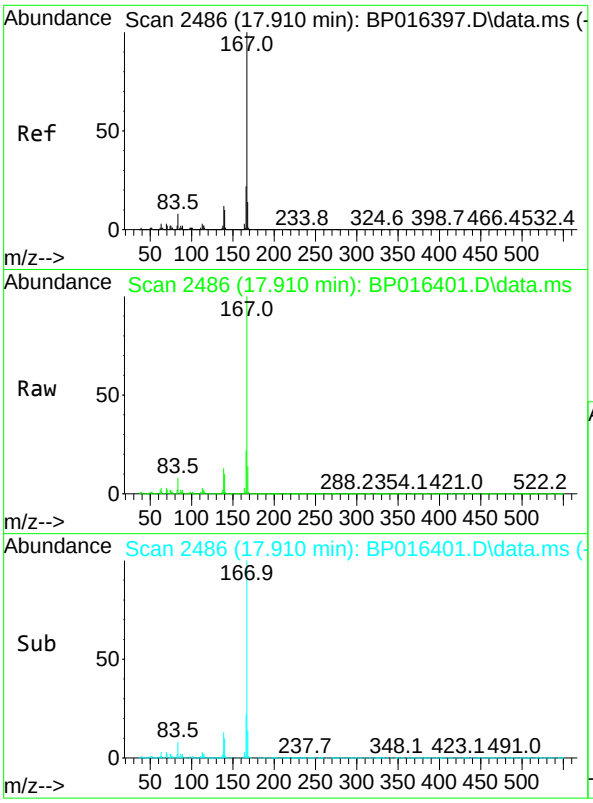


#72
Anthracene
Concen: 40.441 ng
RT: 17.634 min Scan# 2439
Delta R.T. -0.000 min
Lab File: BP016401.D
Acq: 27 Jul 2023 15:38

Tgt Ion:178 Resp: 5722212

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.2	22.8
179	15.9	12.6	19.0



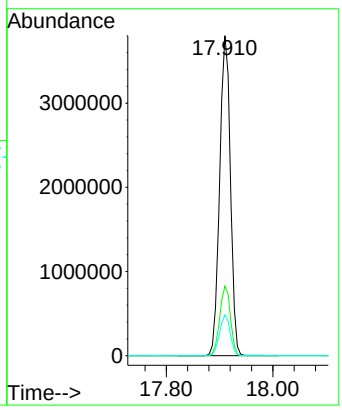


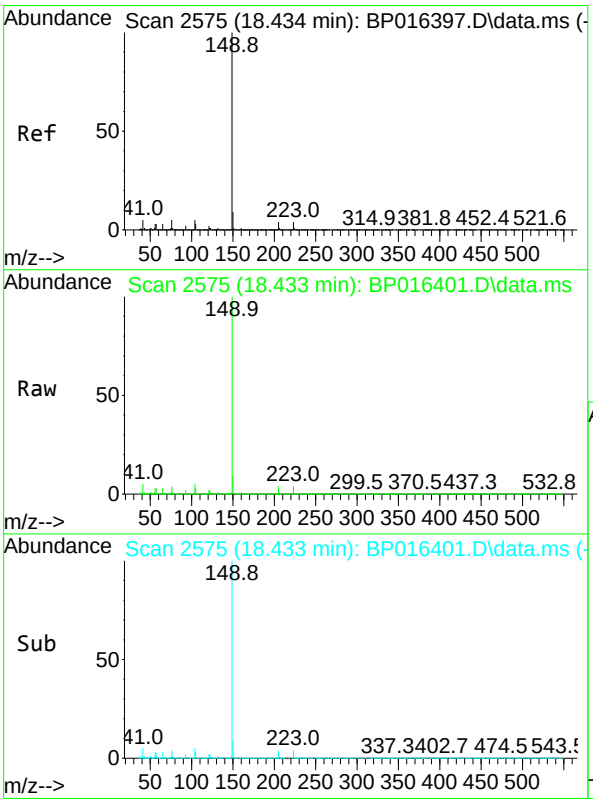
#73
Carbazole
Concen: 39.933 ng
RT: 17.910 min Scan# 24
Delta R.T. -0.000 min
Lab File: BP016401.D
Acq: 27 Jul 2023 15:38

Instrument :
BNA_P
ClientSampleId :
ICVBP072723

Tgt Ion:167 Resp: 5297462

Ion	Ratio	Lower	Upper
167	100		
166	21.8	17.2	25.8
139	12.7	9.9	14.9

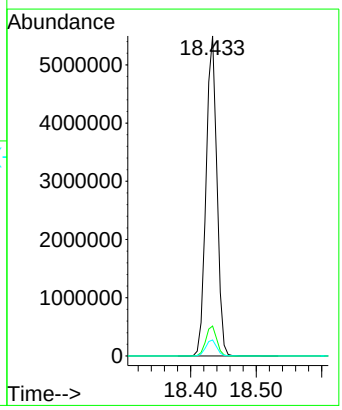


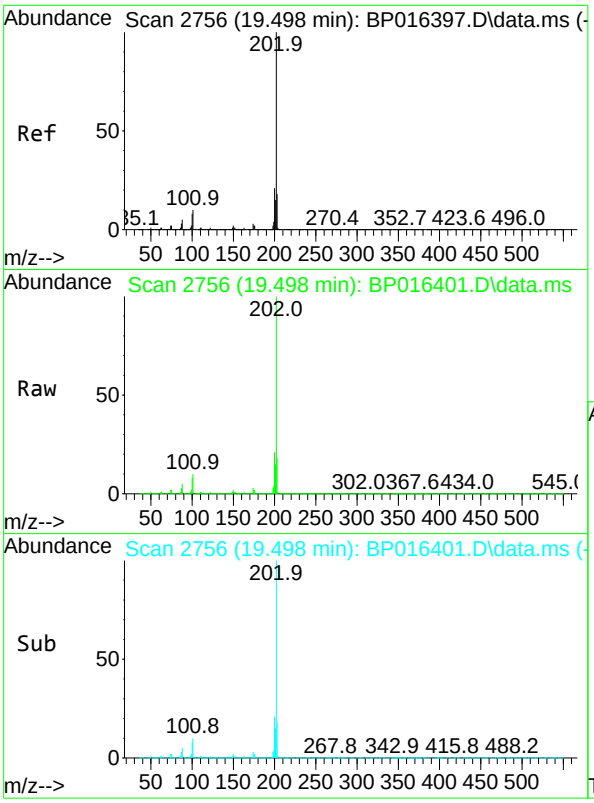


#74
Di-n-butylphthalate
Concen: 41.199 ng
RT: 18.433 min Scan# 2575
Delta R.T. -0.000 min
Lab File: BP016401.D
Acq: 27 Jul 2023 15:38

Tgt Ion:149 Resp: 6323115

Ion	Ratio	Lower	Upper
149	100		
150	9.3	7.4	11.2
104	5.0	3.8	5.8



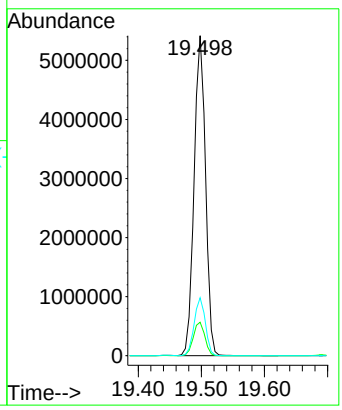


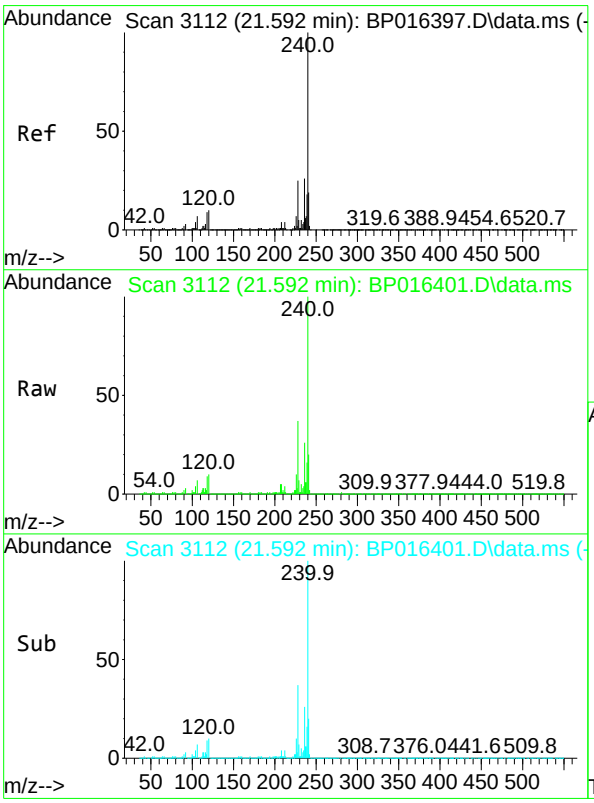
#75
Fluoranthene
Concen: 41.172 ng
RT: 19.498 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP016401.D
Acq: 27 Jul 2023 15:38

Instrument :
BNA_P
ClientSampleId :
ICVBP072723

Tgt Ion:202 Resp: 6790522

Ion	Ratio	Lower	Upper
202	100		
101	10.5	0.0	30.2
203	18.1	0.0	37.9

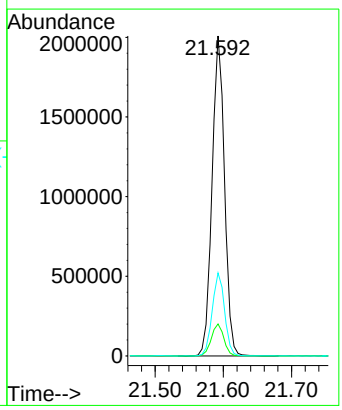


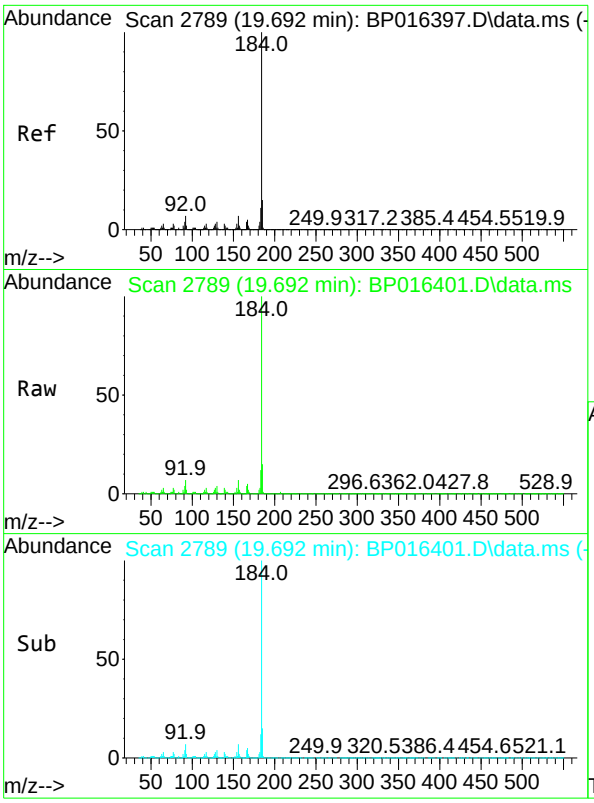


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.592 min Scan# 3112
Delta R.T. -0.000 min
Lab File: BP016401.D
Acq: 27 Jul 2023 15:38

Tgt Ion:240 Resp: 2549162

Ion	Ratio	Lower	Upper
240	100		
120	10.0	7.9	11.9
236	25.9	21.1	31.7



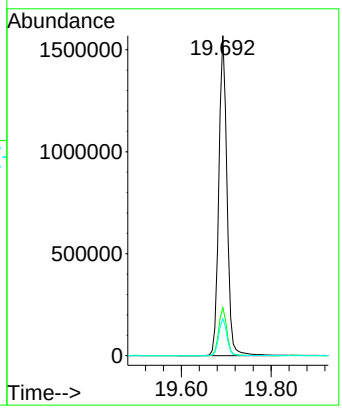


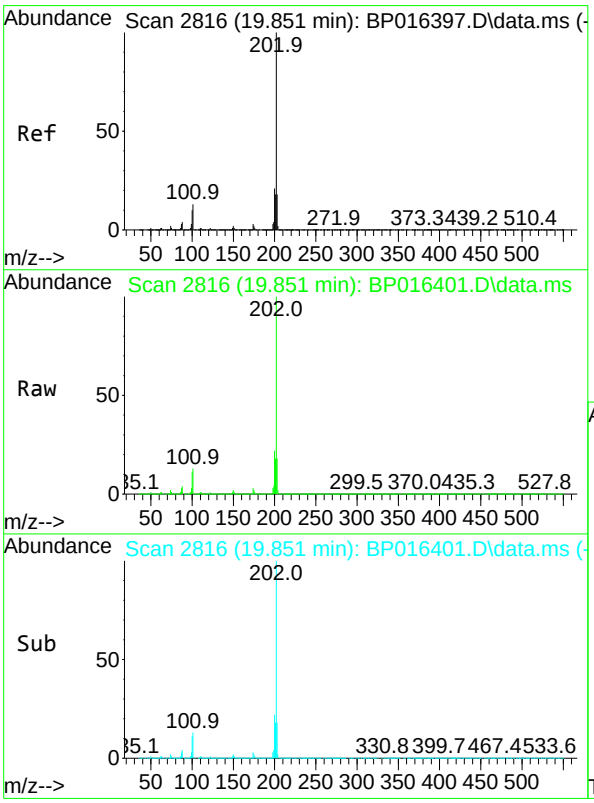
#77
Benzidine
Concen: 45.012 ng
RT: 19.692 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP016401.D
Acq: 27 Jul 2023 15:38

Instrument :
BNA_P
ClientSampleId :
ICVBP072723

Tgt Ion:184 Resp: 1989375

Ion	Ratio	Lower	Upper
184	100		
185	15.0	12.0	18.0
183	11.5	9.2	13.8

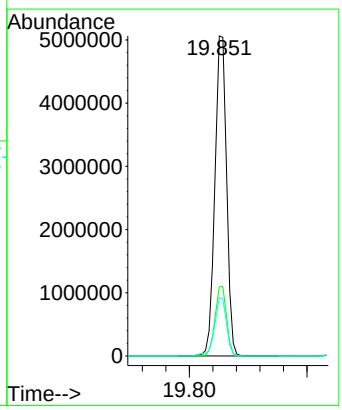


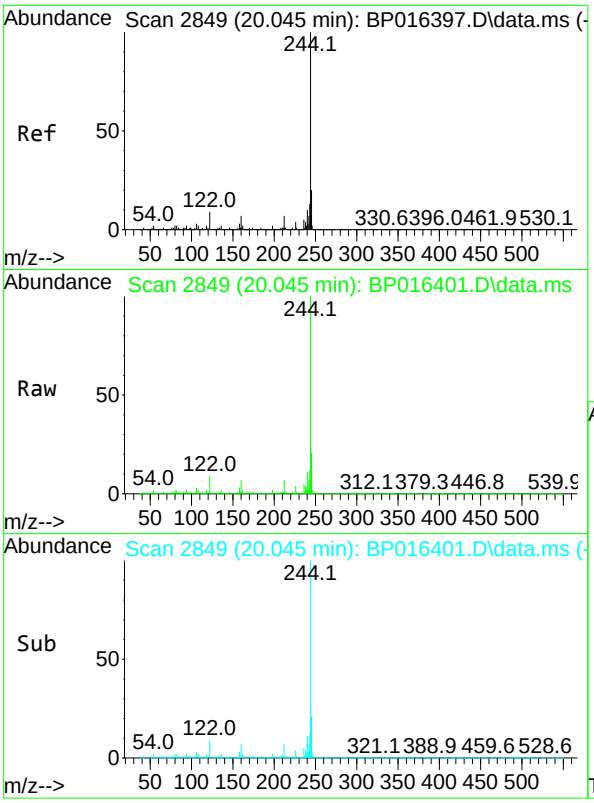


#78
Pyrene
Concen: 40.819 ng
RT: 19.851 min Scan# 2816
Delta R.T. -0.000 min
Lab File: BP016401.D
Acq: 27 Jul 2023 15:38

Tgt Ion:202 Resp: 6975384

Ion	Ratio	Lower	Upper
202	100		
200	21.6	17.1	25.7
203	18.2	14.4	21.6



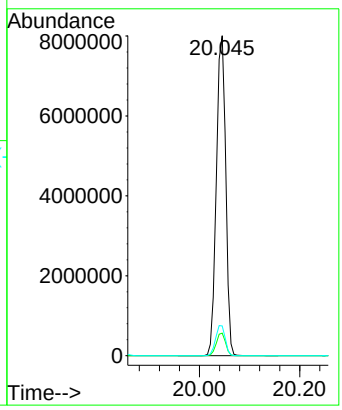


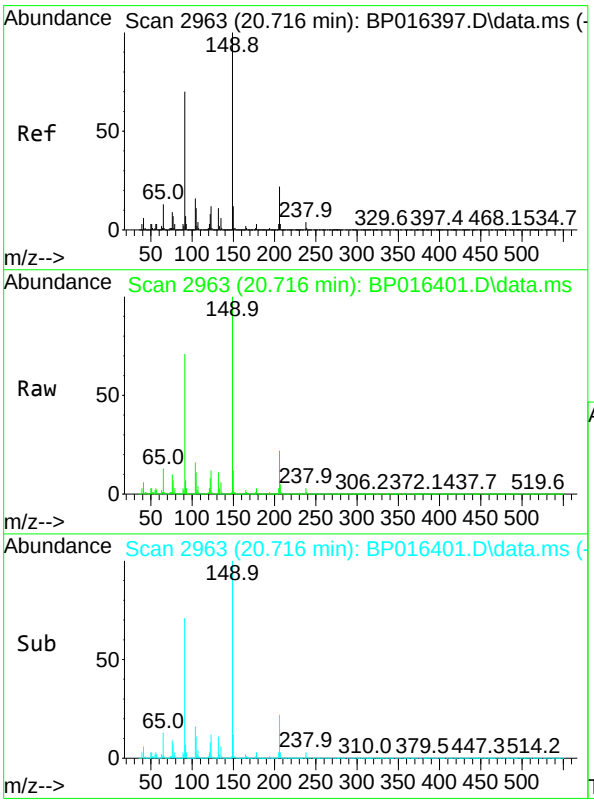
#79
Terphenyl-d14
Concen: 85.764 ng
RT: 20.045 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP016401.D
Acq: 27 Jul 2023 15:38

Instrument :
BNA_P
ClientSampleId :
ICVBP072723

Tgt Ion:244 Resp:10349584

Ion	Ratio	Lower	Upper
244	100		
212	7.0	5.6	8.4
122	9.3	7.4	11.2

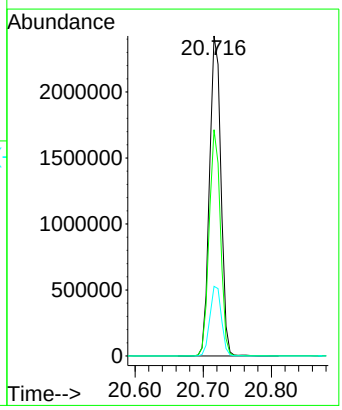


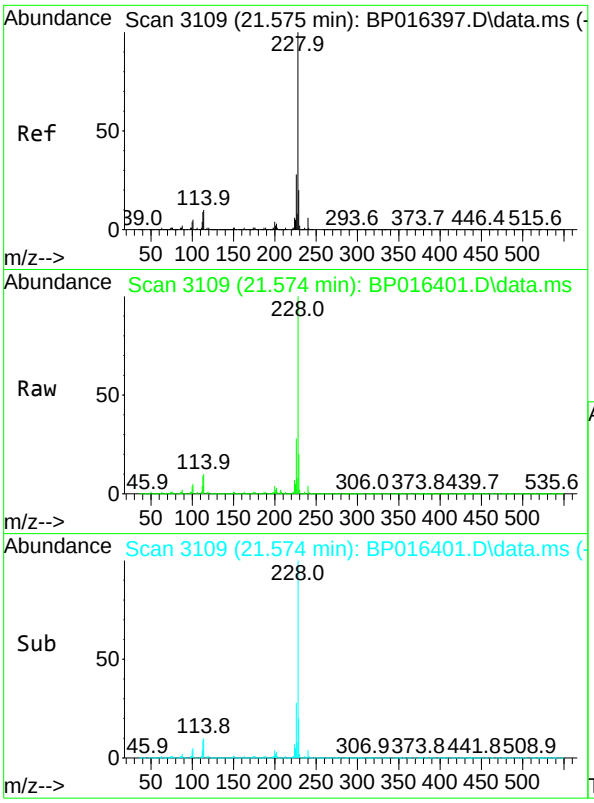


#80
Butylbenzylphthalate
Concen: 41.997 ng
RT: 20.716 min Scan# 2963
Delta R.T. -0.000 min
Lab File: BP016401.D
Acq: 27 Jul 2023 15:38

Tgt Ion:149 Resp: 2819399

Ion	Ratio	Lower	Upper
149	100		
91	70.7	56.1	84.1
206	21.8	17.8	26.6



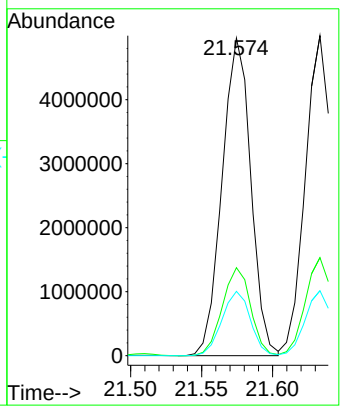


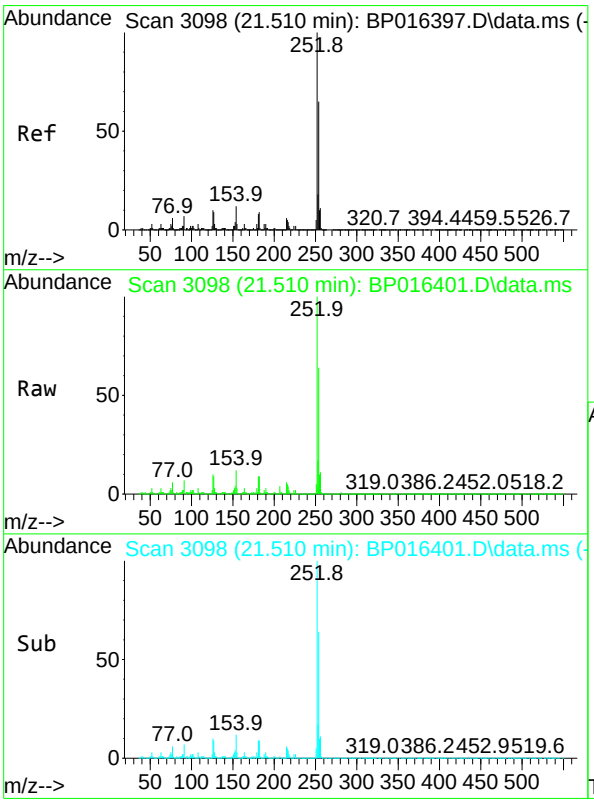
#81
Benzo(a)anthracene
Concen: 40.823 ng
RT: 21.574 min Scan# 3
Delta R.T. -0.000 min
Lab File: BP016401.D
Acq: 27 Jul 2023 15:38

Instrument :
BNA_P
ClientSampleId :
ICVBP072723

Tgt Ion:228 Resp: 6982195

Ion	Ratio	Lower	Upper
228	100		
226	27.7	22.4	33.6
229	20.3	16.2	24.4

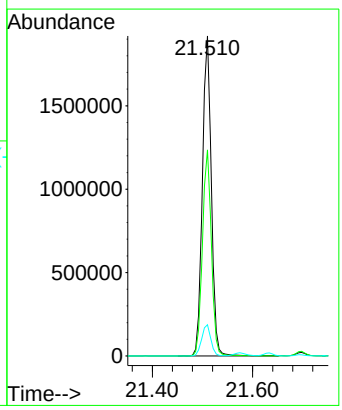


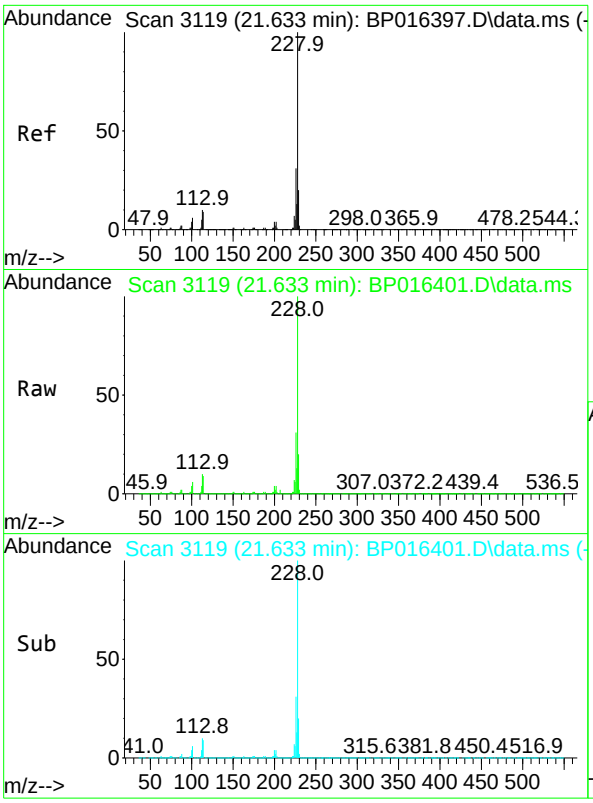


#82
3,3'-Dichlorobenzidine
Concen: 42.382 ng
RT: 21.510 min Scan# 3098
Delta R.T. -0.000 min
Lab File: BP016401.D
Acq: 27 Jul 2023 15:38

Tgt Ion:252 Resp: 2379591

Ion	Ratio	Lower	Upper
252	100		
254	64.4	52.2	78.2
126	9.7	7.8	11.6



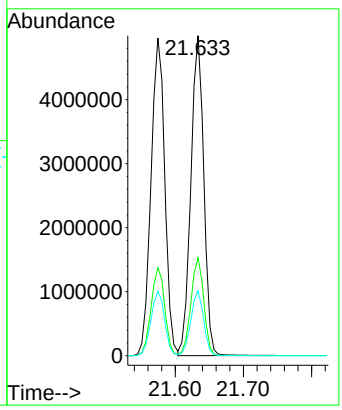


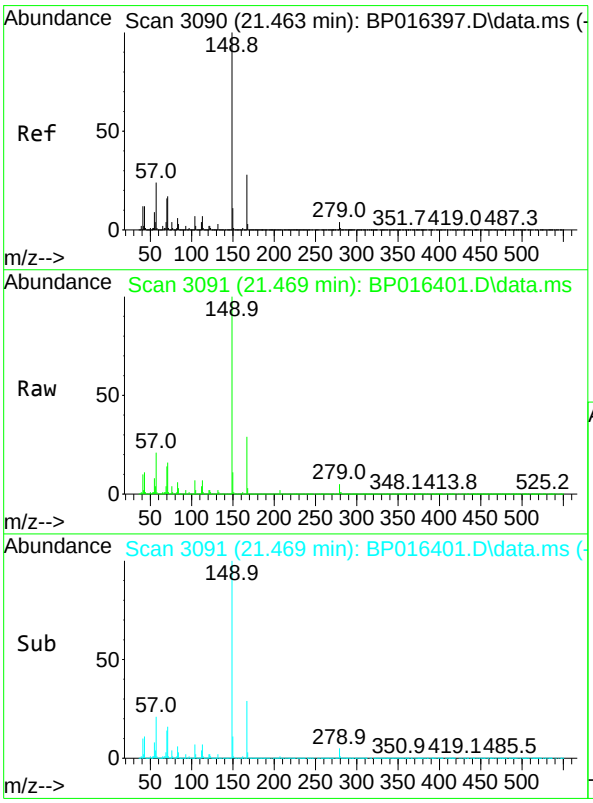
#83
Chrysene
Concen: 40.273 ng
RT: 21.633 min Scan# 3
Delta R.T. -0.000 min
Lab File: BP016401.D
Acq: 27 Jul 2023 15:38

Instrument :
BNA_P
ClientSampleId :
ICVBP072723

Tgt Ion:228 Resp: 6577662

Ion	Ratio	Lower	Upper
228	100		
226	30.7	24.6	37.0
229	20.3	16.0	24.0

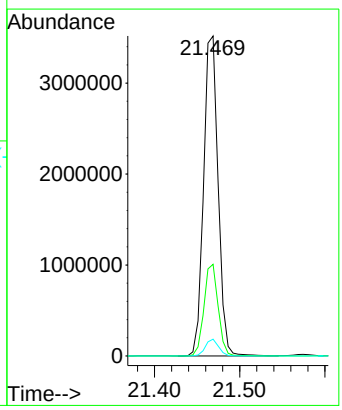


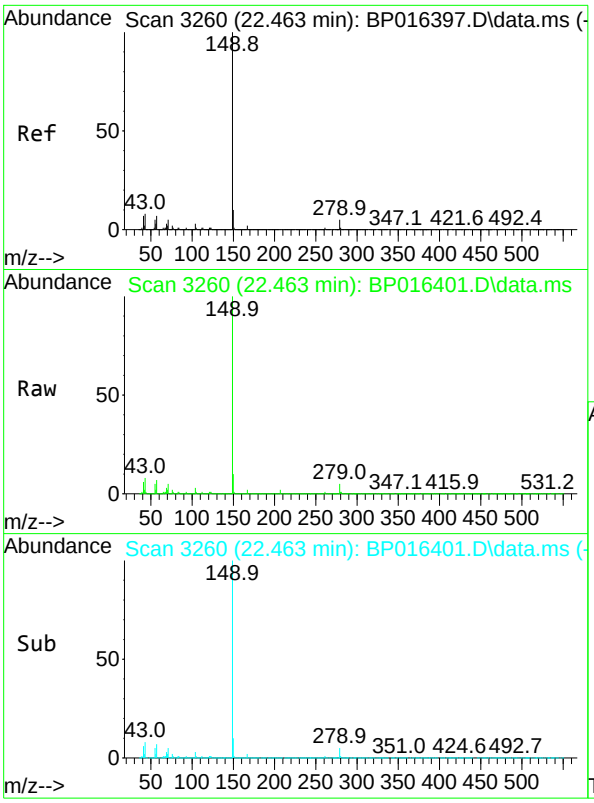


#84
Bis(2-ethylhexyl)phthalate
Concen: 41.234 ng
RT: 21.469 min Scan# 3091
Delta R.T. 0.006 min
Lab File: BP016401.D
Acq: 27 Jul 2023 15:38

Tgt Ion:149 Resp: 4156018

Ion	Ratio	Lower	Upper
149	100		
167	28.7	22.5	33.7
279	5.3	3.6	5.4



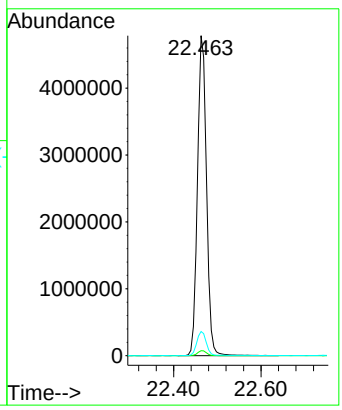


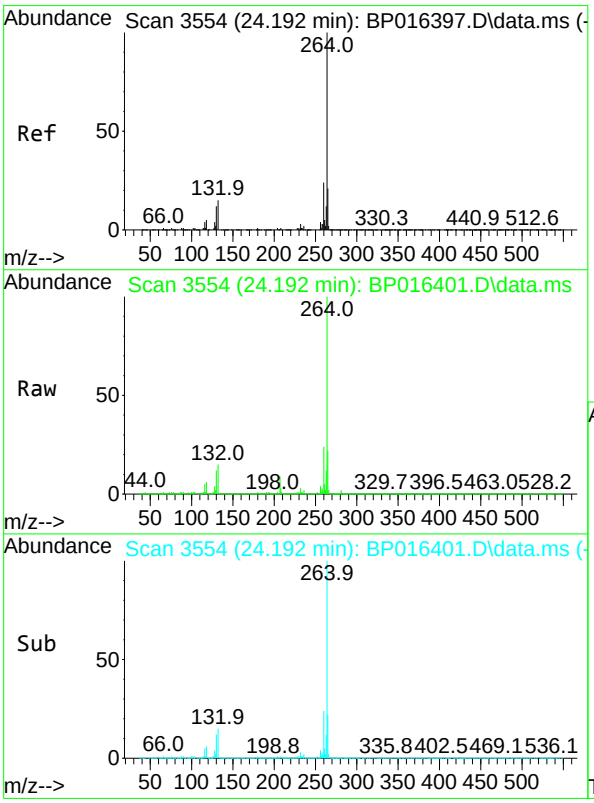
#85
Di-n-octyl phthalate
Concen: 40.541 ng
RT: 22.463 min Scan# 3
Delta R.T. -0.000 min
Lab File: BP016401.D
Acq: 27 Jul 2023 15:38

Instrument :
BNA_P
ClientSampleId :
ICVBP072723

Tgt Ion:149 Resp: 6872228

Ion	Ratio	Lower	Upper
149	100		
167	1.5	1.3	1.9
43	8.0	6.6	9.8

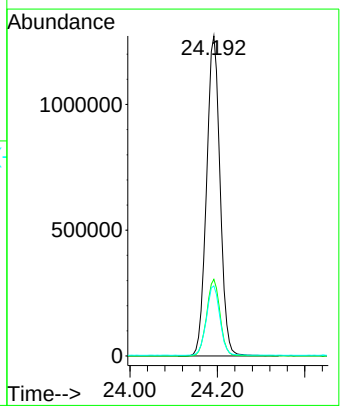


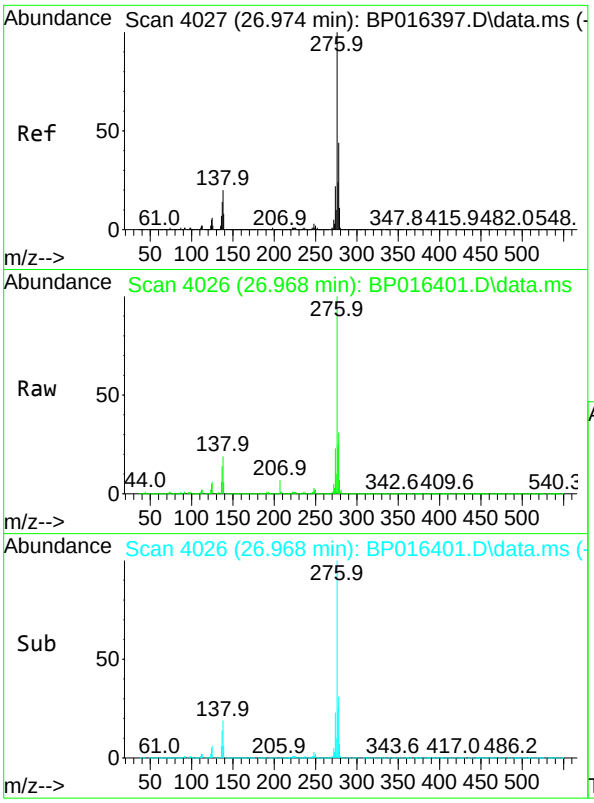


#86
Perylene-d12
Concen: 20.000 ng
RT: 24.192 min Scan# 3554
Delta R.T. -0.000 min
Lab File: BP016401.D
Acq: 27 Jul 2023 15:38

Tgt Ion:264 Resp: 2736722

Ion	Ratio	Lower	Upper
264	100		
260	24.0	19.3	28.9
265	21.9	17.4	26.0



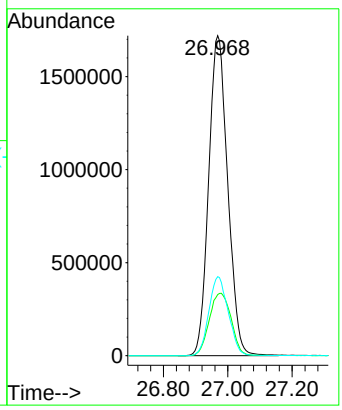


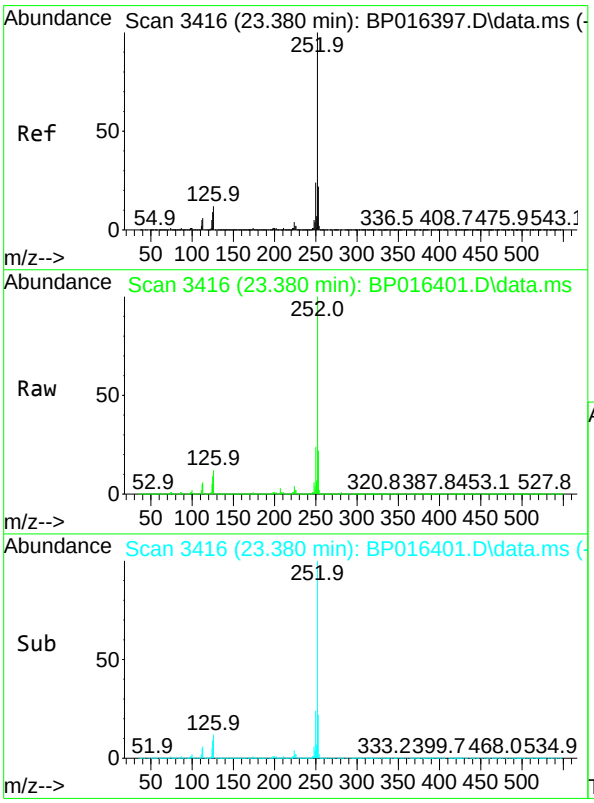
#87
Indeno(1,2,3-cd)pyrene
Concen: 38.243 ng
RT: 26.968 min Scan# 4
Delta R.T. -0.006 min
Lab File: BP016401.D
Acq: 27 Jul 2023 15:38

Instrument :
BNA_P
ClientSampleId :
ICVBP072723

Tgt Ion:276 Resp: 7055961

Ion	Ratio	Lower	Upper
276	100		
138	22.4	18.4	27.6
277	25.2	20.4	30.6

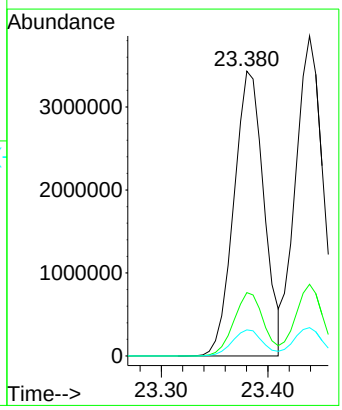


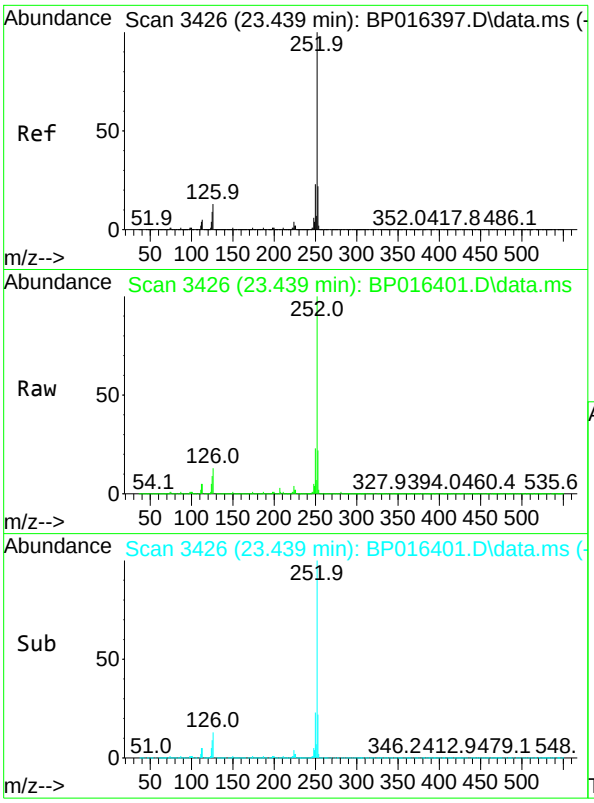


#88
Benzo(b)fluoranthene
Concen: 42.329 ng
RT: 23.380 min Scan# 3416
Delta R.T. -0.000 min
Lab File: BP016401.D
Acq: 27 Jul 2023 15:38

Tgt Ion:252 Resp: 6715063

Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.8	26.8
125	9.1	7.4	11.2



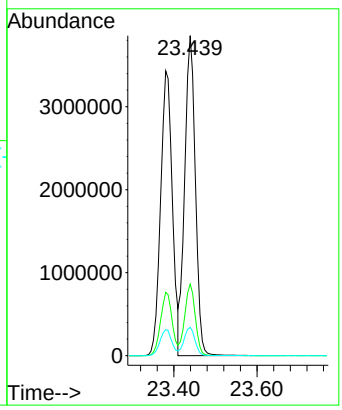


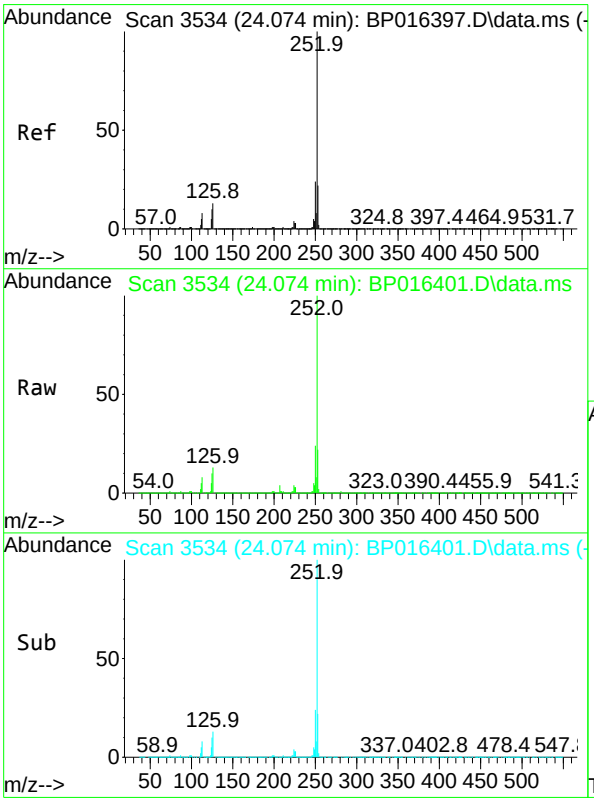
#89
Benzo(k)fluoranthene
Concen: 42.666 ng
RT: 23.439 min Scan# 34
Delta R.T. -0.000 min
Lab File: BP016401.D
Acq: 27 Jul 2023 15:38

Instrument :
BNA_P
ClientSampleId :
ICVBP072723

Tgt Ion:252 Resp: 6883685

Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.8	26.8
125	8.9	7.1	10.7

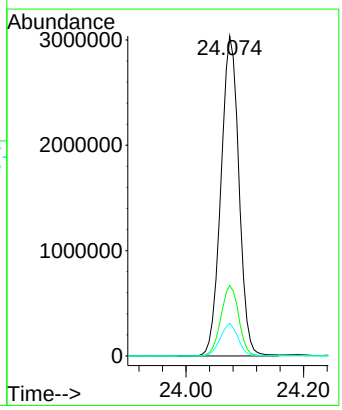


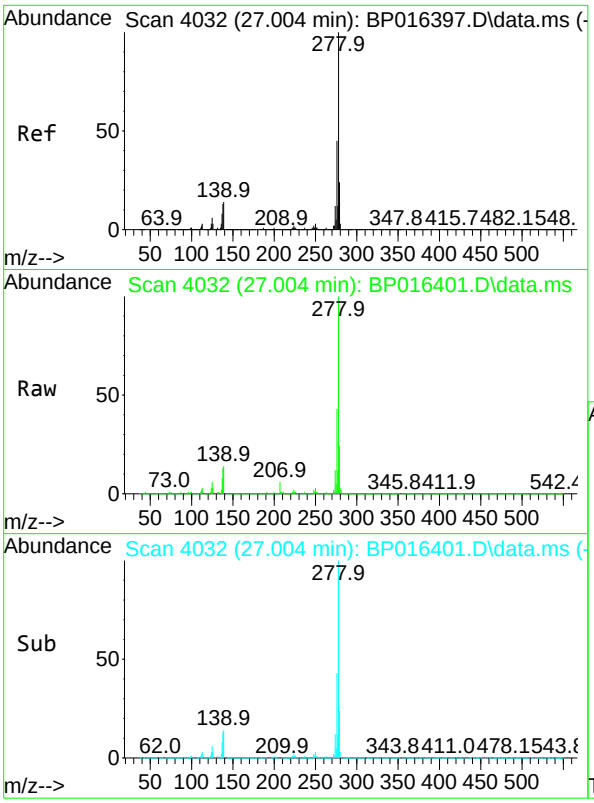


#90
Benzo(a)pyrene
Concen: 41.850 ng
RT: 24.074 min Scan# 3534
Delta R.T. -0.000 min
Lab File: BP016401.D
Acq: 27 Jul 2023 15:38

Tgt Ion:252 Resp: 6430583

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.8	26.6
125	10.2	8.3	12.5



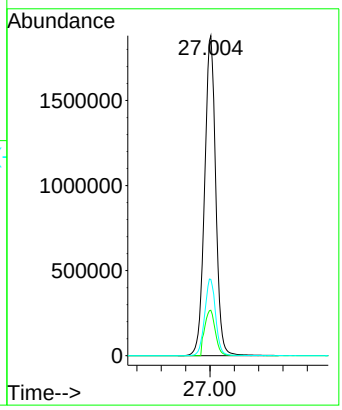


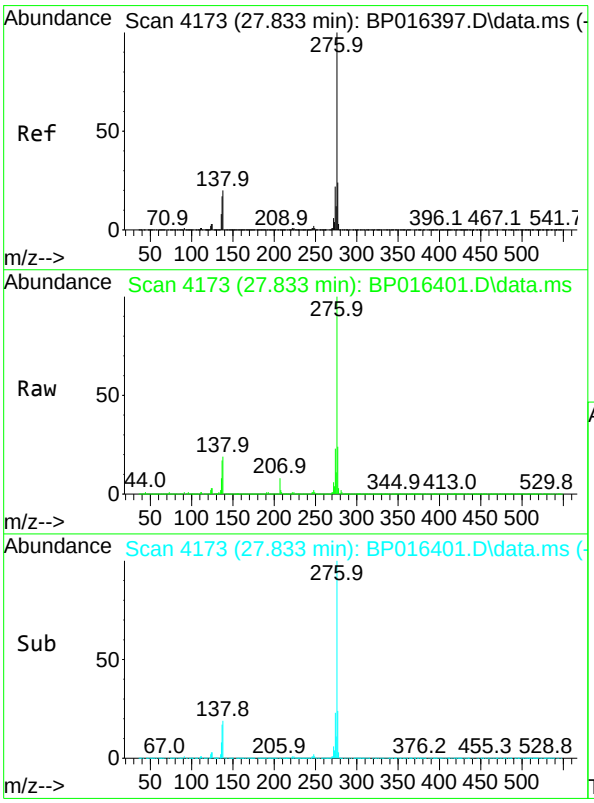
#91
Dibenzo(a,h)anthracene
Concen: 38.538 ng
RT: 27.004 min Scan# 4
Delta R.T. -0.000 min
Lab File: BP016401.D
Acq: 27 Jul 2023 15:38

Instrument :
BNA_P
ClientSampleId :
ICVBP072723

Tgt Ion:278 Resp: 5929734

Ion	Ratio	Lower	Upper
278	100		
139	14.2	11.6	17.4
279	23.9	19.0	28.6

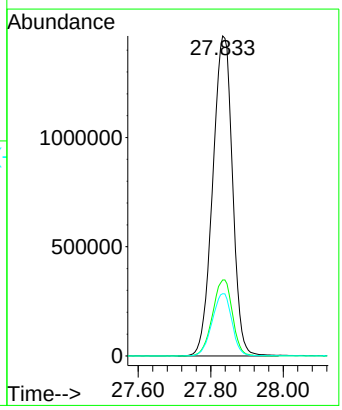




#92
Benzo(g,h,i)perylene
Concen: 37.324 ng
RT: 27.833 min Scan# 4173
Delta R.T. -0.000 min
Lab File: BP016401.D
Acq: 27 Jul 2023 15:38

Tgt Ion:276 Resp: 5534330

Ion	Ratio	Lower	Upper
276	100		
277	23.8	19.2	28.8
138	19.4	16.1	24.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP072723\
Data File : BP016401.D
Acq On : 27 Jul 2023 15:38
Operator : MA/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
ICVBP072723

Quant Time: Jul 28 01:50:34 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP072723.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 28 01:48:25 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	115	0.00
2		1,4-Dioxane	0.478	0.476	0.4	119	0.00
3		Pyridine	1.429	1.379	3.5	112	0.00
4		n-Nitrosodimethylamine	0.539	0.515	4.5	113	0.00
5	S	2-Fluorophenol	1.226	1.234	-0.7	116	0.00
6		Aniline	2.076	1.982	4.5	109	0.00
7	S	Phenol-d6	1.680	1.617	3.7	110	0.00
8		2-Chlorophenol	1.285	1.273	0.9	112	0.00
9		Benzaldehyde	0.866	0.774	10.6	111	0.00
10	C	Phenol	1.632	1.561	4.4	110	0.00
11		bis(2-Chloroethyl)ether	1.326	1.261	4.9	110	0.00
12		1,3-Dichlorobenzene	1.380	1.387	-0.5	116	0.00
13	C	1,4-Dichlorobenzene	1.400	1.396	0.3	115	0.00
14		1,2-Dichlorobenzene	1.348	1.331	1.3	113	0.00
15		Benzyl Alcohol	1.148	1.090	5.1	107	0.00
16		2,2'-oxybis(1-Chloropropane	1.504	1.375	8.6	107	0.00
17		2-Methylphenol	1.176	1.130	3.9	109	0.00
18		Hexachloroethane	0.499	0.491	1.6	114	0.00
19	P	n-Nitroso-di-n-propylamine	1.053	0.963	8.5	105	0.00
20		3+4-Methylphenols	1.597	1.529	4.3	107	0.00
21	I	Naphthalene-d8	1.000	1.000	0.0	107	0.00
22		Acetophenone	0.505	0.499	1.2	106	0.00
23	S	Nitrobenzene-d5	0.357	0.363	-1.7	108	0.00
24		Nitrobenzene	0.367	0.369	-0.5	108	0.00
25		Isophorone	0.721	0.707	1.9	104	0.00
26	C	2-Nitrophenol	0.141	0.162	-14.9	114	0.00
27		2,4-Dimethylphenol	0.323	0.325	-0.6	107	0.00
28		bis(2-Chloroethoxy)methane	0.442	0.431	2.5	105	0.00
29	C	2,4-Dichlorophenol	0.302	0.318	-5.3	107	0.00
30		1,2,4-Trichlorobenzene	0.327	0.342	-4.6	109	0.00
31		Naphthalene	1.046	1.045	0.1	107	0.00
32		Benzoic acid	0.191	0.208	-8.9	114	0.00
33		4-Chloroaniline	0.472	0.468	0.8	105	0.00
34	C	Hexachlorobutadiene	0.194	0.210	-8.2	111	0.00
35		Caprolactam	0.110	0.108	1.8	102	0.00
36	C	4-Chloro-3-methylphenol	0.336	0.335	0.3	104	0.00
37		2-Methylnaphthalene	0.760	0.759	0.1	105	0.00
38		1-Methylnaphthalene	0.713	0.707	0.8	105	0.00
39	I	Acenaphthene-d10	1.000	1.000	0.0	104	0.00
40		1,2,4,5-Tetrachlorobenzene	0.608	0.648	-6.6	107	0.00
41	P	Hexachlorocyclopentadiene	0.305	0.350	-14.8	109	0.00
42	S	2,4,6-Tribromophenol	0.294	0.324	-10.2	106	0.00
43	C	2,4,6-Trichlorophenol	0.390	0.423	-8.5	105	0.00
44		2,4,5-Trichlorophenol	0.473	0.509	-7.6	106	0.00
45	S	2-Fluorobiphenyl	1.395	1.418	-1.6	104	0.00
46		1,1'-Biphenyl	1.525	1.534	-0.6	104	0.00
47		2-Chloronaphthalene	1.150	1.161	-1.0	104	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP072723\
Data File : BP016401.D
Acq On : 27 Jul 2023 15:38
Operator : MA/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
ICVBP072723

Quant Time: Jul 28 01:50:34 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP072723.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 28 01:48:25 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
48		2-Nitroaniline	0.324	0.335	-3.4	103	0.00
49		Acenaphthylene	1.908	1.932	-1.3	104	0.00
50		Dimethylphthalate	1.559	1.561	-0.1	104	0.00
51		2,6-Dinitrotoluene	0.319	0.336	-5.3	104	0.00
52	C	Acenaphthene	1.135	1.139	-0.4	103	0.00
53		3-Nitroaniline	0.361	0.370	-2.5	103	0.00
54	P	2,4-Dinitrophenol	0.121	0.133	-9.9	114	0.00
55		Dibenzofuran	1.861	1.857	0.2	103	0.00
56	P	4-Nitrophenol	0.283	0.295	-4.2	104	0.00
57		2,4-Dinitrotoluene	0.416	0.448	-7.7	103	0.00
58		Fluorene	1.462	1.463	-0.1	102	0.00
59		2,3,4,6-Tetrachlorophenol	0.389	0.425	-9.3	106	0.00
60		Diethylphthalate	1.549	1.531	1.2	102	0.00
61		4-Chlorophenyl-phenylether	0.738	0.760	-3.0	103	0.00
62		4-Nitroaniline	0.358	0.372	-3.9	103	0.00
63		Azobenzene	1.462	1.405	3.9	102	0.00
64	I	Phenanthrene-d10	1.000	1.000	0.0	103	0.00
65		4,6-Dinitro-2-methylphenol	0.084	0.094	-11.9	111	0.00
66	c	n-Nitrosodiphenylamine	0.589	0.590	-0.2	102	0.00
67		4-Bromophenyl-phenylether	0.212	0.227	-7.1	104	0.00
68		Hexachlorobenzene	0.236	0.254	-7.6	105	0.00
69		Atrazine	0.175	0.182	-4.0	104	0.00
70	C	Pentachlorophenol	0.163	0.179	-9.8	107	0.00
71		Phenanthrene	1.062	1.065	-0.3	103	0.00
72		Anthracene	1.068	1.080	-1.1	102	0.00
73		Carbazole	1.001	1.000	0.1	102	0.00
74		Di-n-butylphthalate	1.158	1.193	-3.0	103	0.00
75	C	Fluoranthene	1.245	1.281	-2.9	103	0.00
76	I	Chrysene-d12	1.000	1.000	0.0	101	0.00
77		Benzidine	0.347	0.390	-12.4	104	0.00
78		Pyrene	1.341	1.368	-2.0	102	0.00
79	S	Terphenyl-d14	0.947	1.015	-7.2	103	0.00
80		Butylbenzylphthalate	0.527	0.553	-4.9	103	0.00
81		Benzo(a)anthracene	1.342	1.370	-2.1	101	0.00
82		3,3'-Dichlorobenzidine	0.441	0.467	-5.9	101	0.00
83		Chrysene	1.281	1.290	-0.7	101	0.00
84		Bis(2-ethylhexyl)phthalate	0.791	0.815	-3.0	102	0.00
85	c	Di-n-octyl phthalate	1.330	1.348	-1.4	100	0.00
86	I	Perylene-d12	1.000	1.000	0.0	97	0.00
87		Indeno(1,2,3-cd)pyrene	1.348	1.289	4.4	92	0.00
88		Benzo(b)fluoranthene	1.159	1.227	-5.9	98	0.00
89		Benzo(k)fluoranthene	1.179	1.258	-6.7	100	0.00
90	C	Benzo(a)pyrene	1.123	1.175	-4.6	97	0.00
91		Dibenzo(a,h)anthracene	1.124	1.083	3.6	92	0.00
92		Benzo(g,h,i)perylene	1.084	1.011	6.7	91	0.00

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP072723\
Data File : BP016401.D
Acq On : 27 Jul 2023 15:38
Operator : MA/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
ICVBP072723

Quant Time: Jul 28 01:50:34 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP072723.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 28 01:48:25 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev Area%	Dev(min)

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP072723\
Data File : BP016401.D
Acq On : 27 Jul 2023 15:38
Operator : MA/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
ICVBP072723

Quant Time: Jul 28 01:50:34 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP072723.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 28 01:48:25 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	20.000	20.000	0.0	115	0.00
2		1,4-Dioxane	40.000	39.860	0.4	119	0.00
3		Pyridine	40.000	38.603	3.5	112	0.00
4		n-Nitrosodimethylamine	40.000	38.253	4.4	113	0.00
5	S	2-Fluorophenol	80.000	80.557	-0.7	116	0.00
6		Aniline	40.000	38.198	4.5	109	0.00
7	S	Phenol-d6	80.000	76.973	3.8	110	0.00
8		2-Chlorophenol	40.000	39.615	1.0	112	0.00
9		Benzaldehyde	40.000	39.105	2.2	111	0.00
10	C	Phenol	40.000	38.260	4.4	110	0.00
11		bis(2-Chloroethyl)ether	40.000	38.023	4.9	110	0.00
12		1,3-Dichlorobenzene	40.000	40.196	-0.5	116	0.00
13	C	1,4-Dichlorobenzene	40.000	39.895	0.3	115	0.00
14		1,2-Dichlorobenzene	40.000	39.494	1.3	113	0.00
15		Benzyl Alcohol	40.000	37.992	5.0	107	0.00
16		2,2'-oxybis(1-Chloropropane	40.000	36.555	8.6	107	0.00
17		2-Methylphenol	40.000	38.446	3.9	109	0.00
18		Hexachloroethane	40.000	39.349	1.6	114	0.00
19	P	n-Nitroso-di-n-propylamine	40.000	36.602	8.5	105	0.00
20		3+4-Methylphenols	40.000	38.299	4.3	107	0.00
21	I	Naphthalene-d8	20.000	20.000	0.0	107	0.00
22		Acetophenone	40.000	39.561	1.1	106	0.00
23	S	Nitrobenzene-d5	80.000	81.217	-1.5	108	0.00
24		Nitrobenzene	40.000	40.212	-0.5	108	0.00
25		Isophorone	40.000	39.229	1.9	104	0.00
26	C	2-Nitrophenol	40.000	41.378	-3.4	114	0.00
27		2,4-Dimethylphenol	40.000	40.241	-0.6	107	0.00
28		bis(2-Chloroethoxy)methane	40.000	39.036	2.4	105	0.00
29	C	2,4-Dichlorophenol	40.000	42.110	-5.3	107	0.00
30		1,2,4-Trichlorobenzene	40.000	41.865	-4.7	109	0.00
31		Naphthalene	40.000	39.939	0.2	107	0.00
32		Benzoic acid	40.000	40.374	-0.9	114	0.00
33		4-Chloroaniline	40.000	39.711	0.7	105	0.00
34	C	Hexachlorobutadiene	40.000	43.348	-8.4	111	0.00
35		Caprolactam	40.000	39.038	2.4	102	0.00
36	C	4-Chloro-3-methylphenol	40.000	39.936	0.2	104	0.00
37		2-Methylnaphthalene	40.000	39.972	0.1	105	0.00
38		1-Methylnaphthalene	40.000	39.703	0.7	105	0.00
39	I	Acenaphthene-d10	20.000	20.000	0.0	104	0.00
40		1,2,4,5-Tetrachlorobenzene	40.000	42.664	-6.7	107	0.00
41	P	Hexachlorocyclopentadiene	40.000	45.884	-14.7	109	0.00
42	S	2,4,6-Tribromophenol	80.000	88.205	-10.3	106	0.00
43	C	2,4,6-Trichlorophenol	40.000	43.378	-8.4	105	0.00
44		2,4,5-Trichlorophenol	40.000	43.019	-7.5	106	0.00
45	S	2-Fluorobiphenyl	80.000	81.313	-1.6	104	0.00
46		1,1'-Biphenyl	40.000	40.246	-0.6	104	0.00
47		2-Chloronaphthalene	40.000	40.371	-0.9	104	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP072723\
Data File : BP016401.D
Acq On : 27 Jul 2023 15:38
Operator : MA/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
ICVBP072723

Quant Time: Jul 28 01:50:34 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP072723.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 28 01:48:25 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
48		2-Nitroaniline	40.000	41.373	-3.4	103	0.00
49		Acenaphthylene	40.000	40.487	-1.2	104	0.00
50		Dimethylphthalate	40.000	40.074	-0.2	104	0.00
51		2,6-Dinitrotoluene	40.000	42.120	-5.3	104	0.00
52	C	Acenaphthene	40.000	40.130	-0.3	103	0.00
53		3-Nitroaniline	40.000	41.051	-2.6	103	0.00
54	P	2,4-Dinitrophenol	40.000	40.125	-0.3	114	0.00
55		Dibenzofuran	40.000	39.919	0.2	103	0.00
56	P	4-Nitrophenol	40.000	41.827	-4.6	104	0.00
57		2,4-Dinitrotoluene	40.000	43.018	-7.5	103	0.00
58		Fluorene	40.000	40.008	-0.0	102	0.00
59		2,3,4,6-Tetrachlorophenol	40.000	43.640	-9.1	106	0.00
60		Diethylphthalate	40.000	39.527	1.2	102	0.00
61		4-Chlorophenyl-phenylether	40.000	41.212	-3.0	103	0.00
62		4-Nitroaniline	40.000	41.534	-3.8	103	0.00
63		Azobenzene	40.000	38.441	3.9	102	0.00
64	I	Phenanthrene-d10	20.000	20.000	0.0	103	0.00
65		4,6-Dinitro-2-methylphenol	40.000	41.151	-2.9	111	0.00
66	c	n-Nitrosodiphenylamine	40.000	40.026	-0.1	102	0.00
67		4-Bromophenyl-phenylether	40.000	42.889	-7.2	104	0.00
68		Hexachlorobenzene	40.000	43.036	-7.6	105	0.00
69		Atrazine	40.000	41.612	-4.0	104	0.00
70	C	Pentachlorophenol	40.000	43.835	-9.6	107	0.00
71		Phenanthrene	40.000	40.125	-0.3	103	0.00
72		Anthracene	40.000	40.441	-1.1	102	0.00
73		Carbazole	40.000	39.933	0.2	102	0.00
74		Di-n-butylphthalate	40.000	41.199	-3.0	103	0.00
75	C	Fluoranthene	40.000	41.172	-2.9	103	0.00
76	I	Chrysene-d12	20.000	20.000	0.0	101	0.00
77		Benzidine	40.000	45.012	-12.5	104	0.00
78		Pyrene	40.000	40.819	-2.0	102	0.00
79	S	Terphenyl-d14	80.000	85.764	-7.2	103	0.00
80		Butylbenzylphthalate	40.000	41.997	-5.0	103	0.00
81		Benzo(a)anthracene	40.000	40.823	-2.1	101	0.00
82		3,3'-Dichlorobenzidine	40.000	42.382	-6.0	101	0.00
83		Chrysene	40.000	40.273	-0.7	101	0.00
84		Bis(2-ethylhexyl)phthalate	40.000	41.234	-3.1	102	0.00
85	c	Di-n-octyl phthalate	40.000	40.541	-1.4	100	0.00
86	I	Perylene-d12	20.000	20.000	0.0	97	0.00
87		Indeno(1,2,3-cd)pyrene	40.000	38.243	4.4	92	0.00
88		Benzo(b)fluoranthene	40.000	42.329	-5.8	98	0.00
89		Benzo(k)fluoranthene	40.000	42.666	-6.7	100	0.00
90	C	Benzo(a)pyrene	40.000	41.850	-4.6	97	0.00
91		Dibenzo(a,h)anthracene	40.000	38.538	3.7	92	0.00
92		Benzo(g,h,i)perylene	40.000	37.324	6.7	91	0.00

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP072723\
Data File : BP016401.D
Acq On : 27 Jul 2023 15:38
Operator : MA/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
ICVBP072723

Quant Time: Jul 28 01:50:34 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP072723.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 28 01:48:25 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)

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

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM Case No.: O3645 SAS No.: O3645 SDG No.: O3645

Instrument ID: BNA_F Calibration Date/Time: 07/19/2023 13:01

Lab File ID: BF134355.D Init. Calib. Date(s): 06/26/2023 06/26/2023

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 15:19 19:21

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.196	1.187		-0.8	
Benzaldehyde	0.886	0.819		-7.6	
Phenol-d6	1.470	1.450		-1.4	
Phenol	1.546	1.519		-1.7	20.0
bis(2-Chloroethyl)ether	1.138	1.085		-4.7	
2-Chlorophenol	1.214	1.220		0.5	
2-Methylphenol	1.087	1.057		-2.8	
2,2-oxybis(1-Chloropropane)	2.014	1.599		-20.6	
Acetophenone	0.455	0.488		7.3	
3+4-Methylphenols	1.319	1.374		4.2	
n-Nitroso-di-n-propylamine	0.932	0.921	0.050	-1.2	
Nitrobenzene-d5	0.371	0.397		7.0	
Hexachloroethane	0.485	0.503		3.7	
Nitrobenzene	0.375	0.383		2.1	
Isophorone	0.674	0.673		-0.1	
2-Nitrophenol	0.180	0.188		4.4	20.0
2,4-Dimethylphenol	0.285	0.286		0.4	
bis(2-Chloroethoxy)methane	0.390	0.378		-3.1	
2,4-Dichlorophenol	0.282	0.287		1.8	20.0
Naphthalene	0.966	0.982		1.7	
4-Chloroaniline	0.413	0.420		1.7	
Hexachlorobutadiene	0.184	0.210		14.1	20.0
Caprolactam	0.093	0.086		-7.5	
4-Chloro-3-methylphenol	0.317	0.331		4.4	20.0
2-Methylnaphthalene	0.683	0.698		2.2	
Hexachlorocyclopentadiene	0.281	0.306	0.050	8.9	
2,4,6-Trichlorophenol	0.403	0.404		0.2	20.0
2-Fluorobiphenyl	1.376	1.487		8.1	
2,4,5-Trichlorophenol	0.474	0.470		-0.8	
1,1-Biphenyl	1.604	1.636		2.0	
2-Chloronaphthalene	1.174	1.179		0.4	
2-Nitroaniline	0.428	0.427		-0.2	
Dimethylphthalate	1.452	1.461		0.6	
Acenaphthylene	2.005	1.994		-0.5	
2,6-Dinitrotoluene	0.313	0.320		2.2	
3-Nitroaniline	0.375	0.356		-5.1	
Acenaphthene	1.164	1.184		1.7	20.0
2,4-Dinitrophenol	0.162	0.173	0.050	6.8	
4-Nitrophenol	0.262	0.212	0.050	-19.1	
Dibenzofuran	1.818	1.814		-0.2	
2,4-Dinitrotoluene	0.413	0.427		3.4	

Form VII SV-1

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM Case No.: O3645 SAS No.: O3645 SDG No.: O3645

Instrument ID: BNA_F Calibration Date/Time: 07/19/2023 13:01

Lab File ID: BF134355.D Init. Calib. Date(s): 06/26/2023 06/26/2023

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 15:19 19:21

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Diethylphthalate	1.513	1.539		1.7	
4-Chlorophenyl-phenylether	0.682	0.714		4.7	
Fluorene	1.415	1.449		2.4	
4-Nitroaniline	0.378	0.363		-4.0	
4,6-Dinitro-2-methylphenol	0.109	0.119		9.2	
n-Nitrosodiphenylamine	0.639	0.641		0.3	20.0
2,4,6-Tribromophenol	0.251	0.288		14.7	
4-Bromophenyl-phenylether	0.213	0.228		7.0	
Hexachlorobenzene	0.226	0.243		7.5	
Atrazine	0.177	0.181		2.3	
Pentachlorophenol	0.135	0.114		-15.6	20.0
Phenanthrene	1.007	1.017		1.0	
Anthracene	1.047	1.055		0.8	
Carbazole	0.959	0.965		0.6	
Di-n-butylphthalate	1.140	1.193		4.6	
Fluoranthene	1.088	1.140		4.8	20.0
Pyrene	1.861	1.720		-7.6	
Terphenyl-d14	1.243	1.199		-3.5	
Butylbenzylphthalate	0.698	0.688		-1.4	
3,3-Dichlorobenzidine	0.439	0.437		-0.5	
Benzo(a)anthracene	1.387	1.378		-0.6	
Chrysene	1.343	1.309		-2.5	
Bis(2-ethylhexyl)phthalate	0.802	0.876		9.2	
Di-n-octyl phthalate	1.179	1.282		8.7	20.0
Benzo(b)fluoranthene	1.176	1.226		4.3	
Benzo(k)fluoranthene	1.197	1.181		-1.3	
Benzo(a)pyrene	1.137	1.125		-1.1	20.0
Indeno(1,2,3-cd)pyrene	1.388	1.313		-5.4	
Dibenzo(a,h)anthracene	1.134	1.079		-4.8	
Benzo(g,h,i)perylene	1.169	1.060		-9.3	
1,2,4,5-Tetrachlorobenzene	0.593	0.631		6.4	
1,4-Dioxane	0.493	0.511		3.7	20.0
2,3,4,6-Tetrachlorophenol	0.374	0.367		-1.9	

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF071923\
Data File : BF134355.D
Acq On : 19 Jul 2023 13:01
Operator : CG\JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 19 13:57:20 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF062623.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 14 22:51:27 2023
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 07/20/2023
Supervised By :mohammad ahmed 07/20/2023

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.840	152	72147	20.000	ng	0.00
21) Naphthalene-d8	8.122	136	261643	20.000	ng	0.00
39) Acenaphthene-d10	9.881	164	134896	20.000	ng	0.00
64) Phenanthrene-d10	11.375	188	265144	20.000	ng	0.00
76) Chrysene-d12	14.039	240	186886	20.000	ng	0.00
86) Perylene-d12	15.545	264	165841	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.475	112	342467	79.403	ng	0.00
7) Phenol-d6	6.487	99	418488	78.898	ng	0.00
23) Nitrobenzene-d5	7.410	82	415678	85.641	ng	0.00
42) 2,4,6-Tribromophenol	10.680	330	155331	91.840	ng	0.00
45) 2-Fluorobiphenyl	9.198	172	802603	86.504	ng	0.00
79) Terphenyl-d14	12.974	244	896489	77.204	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.616	88	73772	41.482	ng	99
3) Pyridine	3.404	79	182858	39.475	ng	96
4) n-Nitrosodimethylamine	3.369	42	101925	38.525	ng	97
6) Aniline	6.510	93	249221	38.612	ng	91
8) 2-Chlorophenol	6.628	128	176003	40.199	ng	97
9) Benzaldehyde	6.398	77	118162	40.741	ng	95
10) Phenol	6.498	94	219241	39.312	ng	84
11) bis(2-Chloroethyl)ether	6.581	93	156546	38.127	ng	97
12) 1,3-Dichlorobenzene	6.781	146	188692	40.425	ng	99
13) 1,4-Dichlorobenzene	6.857	146	189858	40.270	ng	98
14) 1,2-Dichlorobenzene	7.010	146	179618	40.680	ng	99
15) Benzyl Alcohol	6.987	79	174005	42.554	ng	93
16) 2,2'-oxybis(1-Chloropr...	7.116	45	230677	31.757	ng	88
17) 2-Methylphenol	7.098	107	152535	38.906	ng	96
18) Hexachloroethane	7.345	117	72613	41.537	ng	97
19) n-Nitroso-di-n-propyla...	7.257	70	132877	39.503	ng	96
20) 3+4-Methylphenols	7.257	107	198272	41.686	ng	93
22) Acetophenone	7.251	105	255537	42.944	ng	98
24) Nitrobenzene	7.428	77	200336	40.845	ng	95
25) Isophorone	7.663	82	352165	39.922	ng	97
26) 2-Nitrophenol	7.739	139	98344	41.796	ng	95
27) 2,4-Dimethylphenol	7.781	122	149529	40.147	ng	93
28) bis(2-Chloroethoxy)met...	7.869	93	197667	38.699	ng	99
29) 2,4-Dichlorophenol	7.987	162	149958	40.603	ng	97
30) 1,2,4-Trichlorobenzene	8.063	180	161130	42.282	ng	98
31) Naphthalene	8.145	128	514023	40.672	ng	99
32) Benzoic acid	7.916	122	102620m	36.770	ng	
33) 4-Chloroaniline	8.198	127	219897	40.675	ng	96
34) Hexachlorobutadiene	8.251	225	109744	45.652	ng	98
35) Caprolactam	8.581	113	45032	37.031	ng	98
36) 4-Chloro-3-methylphenol	8.681	107	173184	41.741	ng	95
37) 2-Methylnaphthalene	8.834	142	365069	40.848	ng	100
38) 1-Methylnaphthalene	8.934	142	337809	40.659	ng	100
40) 1,2,4,5-Tetrachloroben...	9.004	216	170336	42.621	ng	98
41) Hexachlorocyclopentadiene	8.981	237	82588	43.559	ng	97
43) 2,4,6-Trichlorophenol	9.116	196	108905	40.030	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF071923\
Data File : BF134355.D
Acq On : 19 Jul 2023 13:01
Operator : CG\JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 19 13:57:20 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF062623.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 14 22:51:27 2023
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 07/20/2023
Supervised By :mohammad ahmed 07/20/2023

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.163	196	126849	39.638	ng		97
46) 1,1'-Biphenyl	9.298	154	441280	40.780	ng		97
47) 2-Chloronaphthalene	9.328	162	317967	40.161	ng		97
48) 2-Nitroaniline	9.428	65	115331	39.970	ng		98
49) Acenaphthylene	9.745	152	537857	39.769	ng		98
50) Dimethylphthalate	9.604	163	394119	40.249	ng		100
51) 2,6-Dinitrotoluene	9.675	165	86375	40.954	ng		97
52) Acenaphthene	9.916	154	319473	40.709	ng		99
53) 3-Nitroaniline	9.845	138	95946	37.921	ng		98
54) 2,4-Dinitrophenol	9.957	184	46615	40.287	ng		93
55) Dibenzofuran	10.086	168	489397	39.903	ng		98
56) 4-Nitrophenol	10.016	139	57316	32.385	ng		93
57) 2,4-Dinitrotoluene	10.081	165	115215	41.365	ng		86
58) Fluorene	10.433	166	390999	40.977	ng		97
59) 2,3,4,6-Tetrachlorophenol	10.210	232	99120	39.266	ng		99
60) Diethylphthalate	10.304	149	415212	40.700	ng		99
61) 4-Chlorophenyl-phenyle...	10.422	204	192675	41.901	ng		95
62) 4-Nitroaniline	10.463	138	97877	38.385	ng		88
63) Azobenzene	10.586	77	376487	39.014	ng		99
65) 4,6-Dinitro-2-methylph...	10.498	198	62841	43.472	ng		99
66) n-Nitrosodiphenylamine	10.545	169	340118	40.149	ng		98
67) 4-Bromophenyl-phenylether	10.916	248	120831	42.876	ng		97
68) Hexachlorobenzene	10.986	284	128810	43.048	ng		91
69) Atrazine	11.075	200	95748	40.861	ng		97
70) Pentachlorophenol	11.180	266	60293	33.700	ng		96
71) Phenanthrene	11.404	178	539058	40.386	ng		99
72) Anthracene	11.457	178	559349	40.290	ng		100
73) Carbazole	11.610	167	511909	40.284	ng		99
74) Di-n-butylphthalate	11.939	149	632388	41.848	ng		100
75) Fluoranthene	12.598	202	604408	41.885	ng		97
77) Benzidine	12.722	184	171120	38.481	ng		99
78) Pyrene	12.827	202	642712	36.954	ng		100
80) Butylbenzylphthalate	13.445	149	257138	39.421	ng		97
81) Benzo(a)anthracene	14.027	228	515031	39.737	ng		99
82) 3,3'-Dichlorobenzidine	13.992	252	163249	39.756	ng		98
83) Chrysene	14.068	228	489153	38.966	ng		99
84) Bis(2-ethylhexyl)phtha...	14.010	149	327459	43.689	ng		99
85) Di-n-octyl phthalate	14.627	149	479026	43.496	ng		98
87) Indeno(1,2,3-cd)pyrene	17.104	276	435536	37.847	ng	#	94
88) Benzo(b)fluoranthene	15.098	252	406782	41.714	ng		99
89) Benzo(k)fluoranthene	15.133	252	391740m	39.456	ng		
90) Benzo(a)pyrene	15.486	252	373115	39.568	ng	#	97
91) Dibenzo(a,h)anthracene	17.115	278	357758	38.062	ng		97
92) Benzo(g,h,i)perylene	17.574	276	351581	36.272	ng	#	96

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

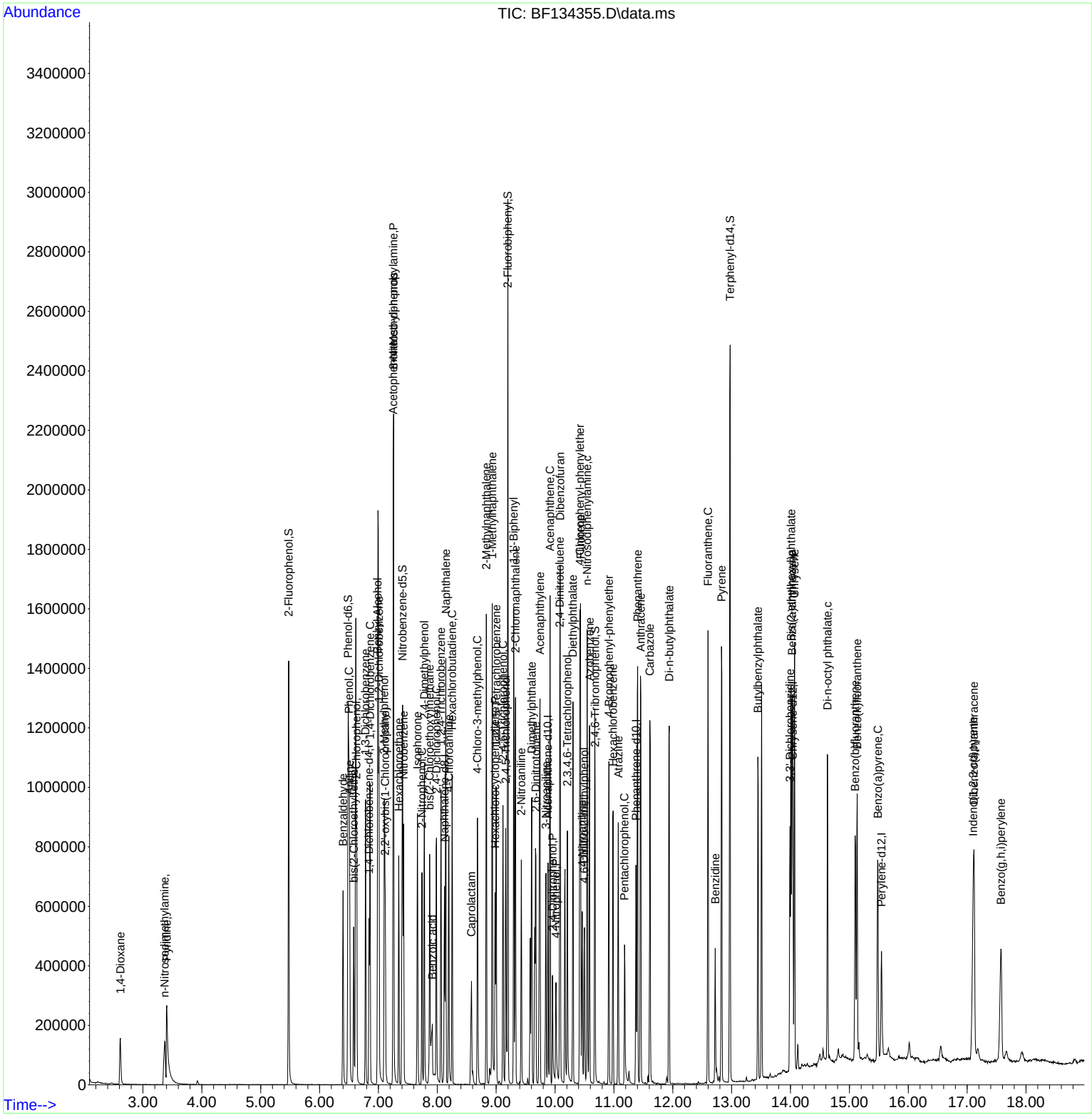
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF071923\
Data File : BF134355.D
Acq On : 19 Jul 2023 13:01
Operator : CG\JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

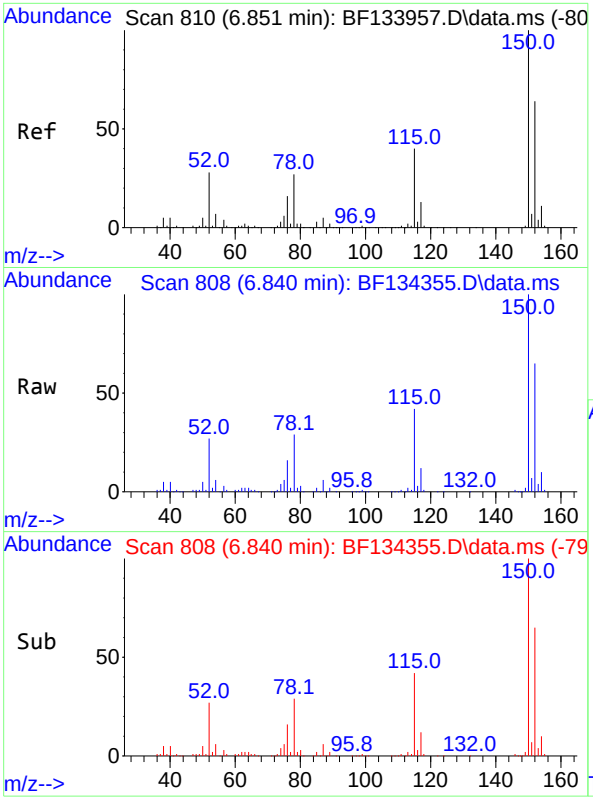
Quant Time: Jul 19 13:57:20 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF062623.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 14 22:51:27 2023
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 07/20/2023
Supervised By :mohammad ahmed 07/20/2023

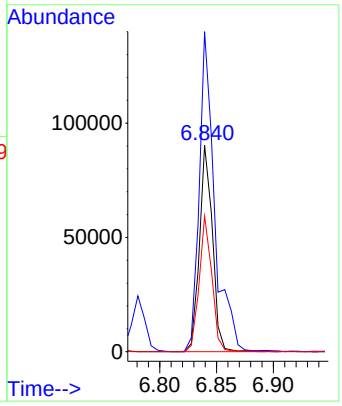




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.840 min Scan# 8
Delta R.T. -0.005 min
Lab File: BF134355.D
Acq: 19 Jul 2023 13:01

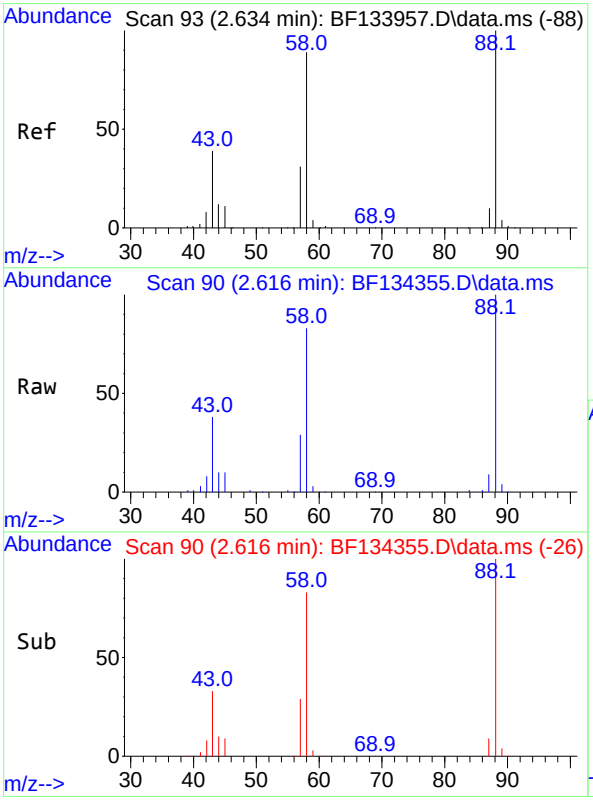
Tgt Ion:152 Resp: 7214

Ion	Ratio	Lower	Upper
152	100		
150	155.0	124.5	186.7
115	65.7	50.2	75.2



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

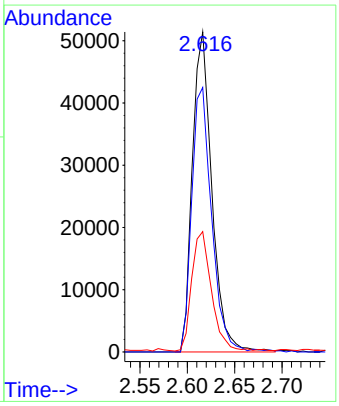
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 07/20/2023
Supervised By :mohammad ahmed 07/20/2023

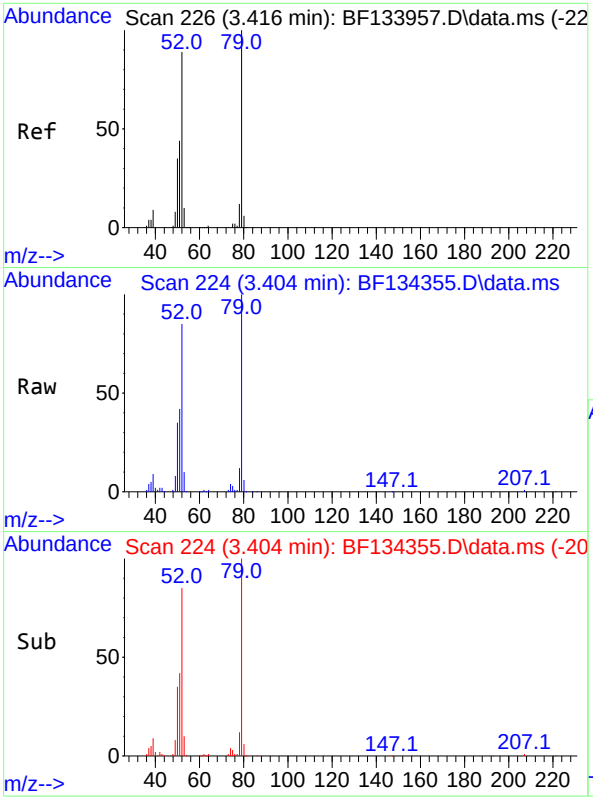


#2
1,4-Dioxane
Concen: 41.482 ng
RT: 2.616 min Scan# 90
Delta R.T. 0.024 min
Lab File: BF134355.D
Acq: 19 Jul 2023 13:01

Tgt Ion: 88 Resp: 73772

Ion	Ratio	Lower	Upper
88	100		
58	84.6	68.8	103.2
43	37.9	30.7	46.1

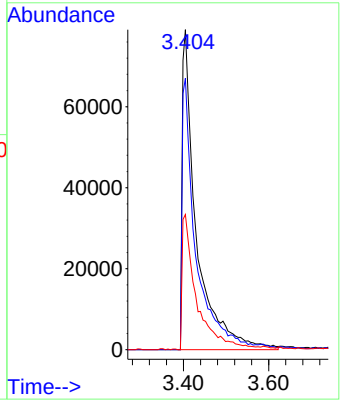




#3
Pyridine
Concen: 39.475 ng
RT: 3.404 min Scan# 2
Delta R.T. 0.024 min
Lab File: BF134355.D
Acq: 19 Jul 2023 13:01

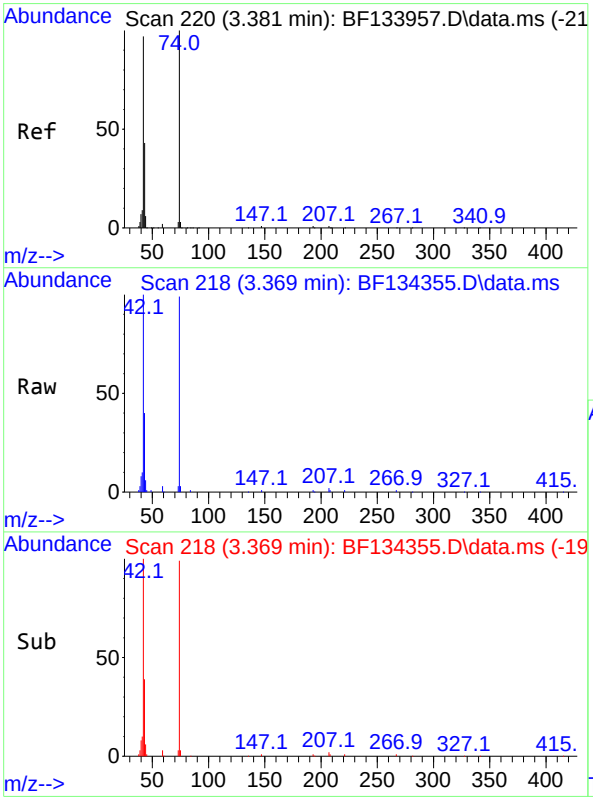
Tgt Ion: 79 Resp: 18285

Ion	Ratio	Lower	Upper
79	100		
52	84.8	71.1	106.7
51	42.2	35.2	52.8



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

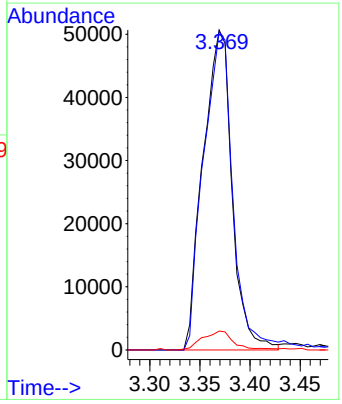
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 07/20/2023
Supervised By :mohammad ahmed 07/20/2023

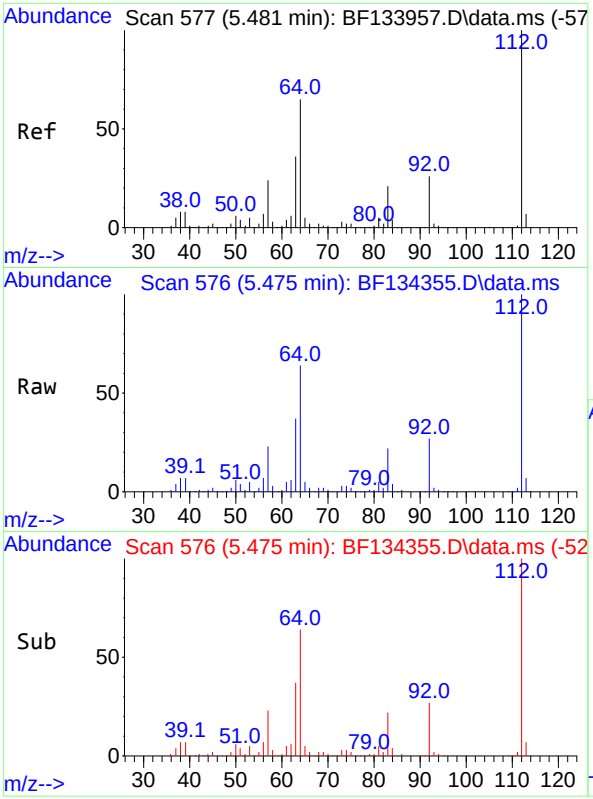


#4
n-Nitrosodimethylamine
Concen: 38.525 ng
RT: 3.369 min Scan# 218
Delta R.T. 0.030 min
Lab File: BF134355.D
Acq: 19 Jul 2023 13:01

Tgt Ion: 42 Resp: 101925

Ion	Ratio	Lower	Upper
42	100		
74	99.5	82.4	123.6
44	5.9	4.9	7.3

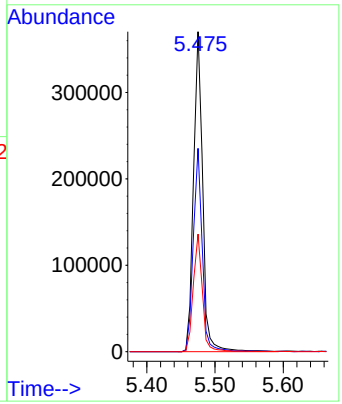




#5
2-Fluorophenol
Concen: 79.403 ng
RT: 5.475 min Scan# 5
Delta R.T. 0.006 min
Lab File: BF134355.D
Acq: 19 Jul 2023 13:01

Tgt Ion:112 Resp: 34246

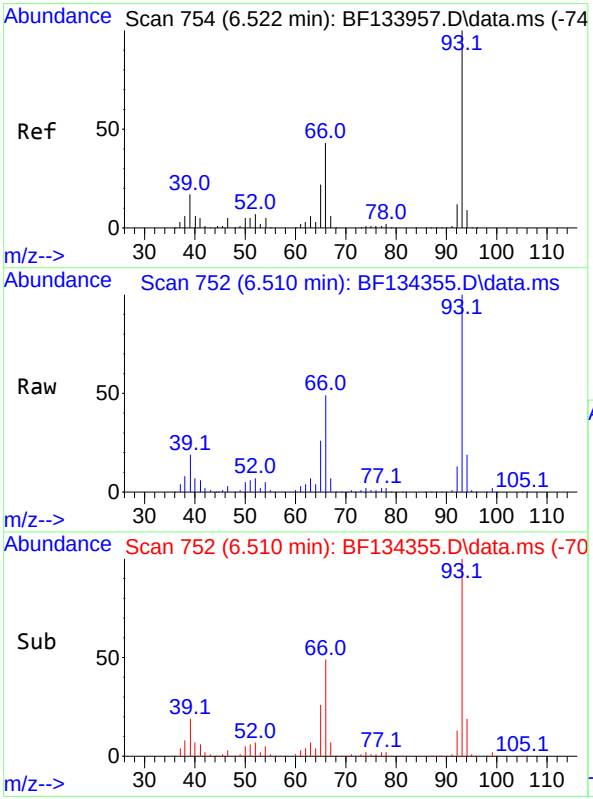
Ion	Ratio	Lower	Upper
112	100		
64	63.5	52.1	78.1
63	36.7	28.6	42.8



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

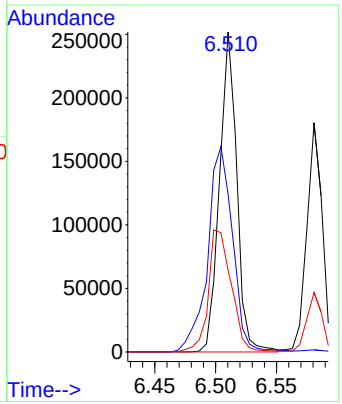
Reviewed By :Yogesh Patel 07/20/2023
Supervised By :mohammad ahmed 07/20/2023

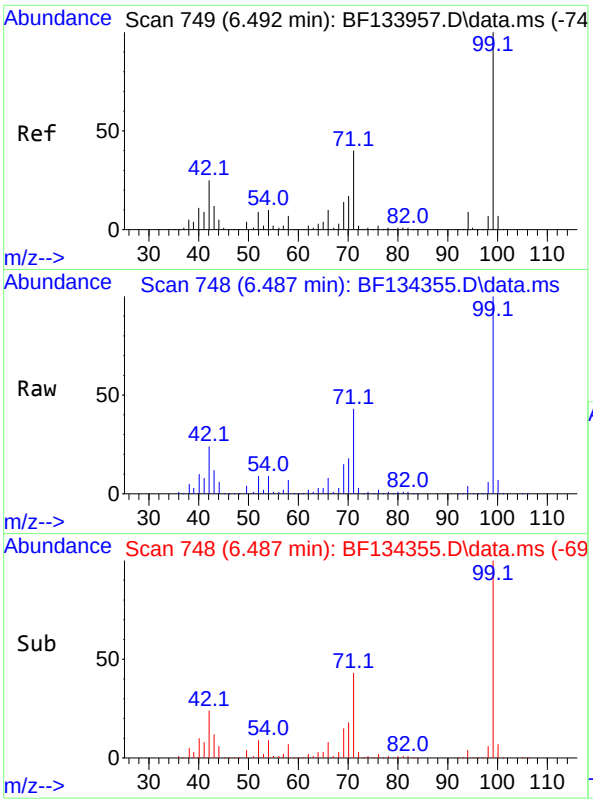


#6
Aniline
Concen: 38.612 ng
RT: 6.510 min Scan# 752
Delta R.T. 0.000 min
Lab File: BF134355.D
Acq: 19 Jul 2023 13:01

Tgt Ion: 93 Resp: 249221

Ion	Ratio	Lower	Upper
93	100		
66	49.2	34.5	51.7
65	25.5	17.8	26.6

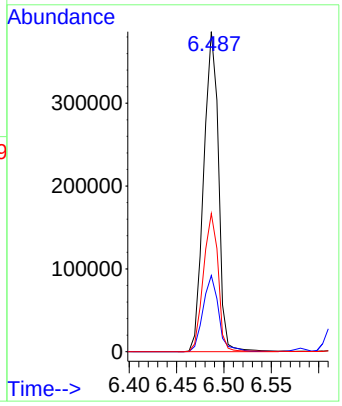




#7
Phenol-d6
Concen: 78.898 ng
RT: 6.487 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF134355.D
Acq: 19 Jul 2023 13:01

Tgt Ion: 99 Resp: 41848

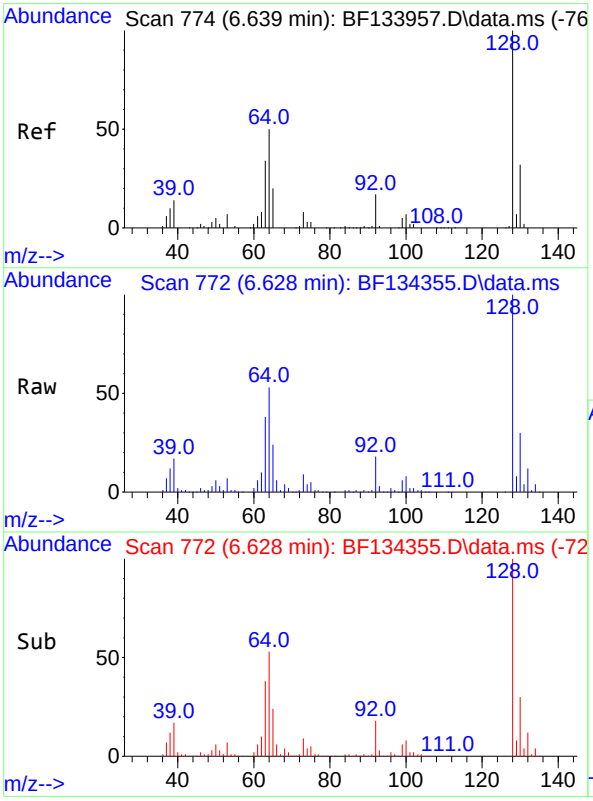
Ion	Ratio	Lower	Upper
99	100		
42	23.8	19.8	29.6
71	43.2	31.9	47.9



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

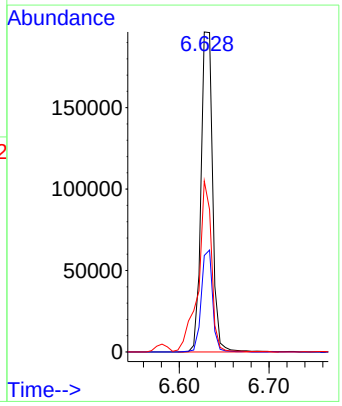
Reviewed By :Yogesh Patel 07/20/2023
Supervised By :mohammad ahmed 07/20/2023

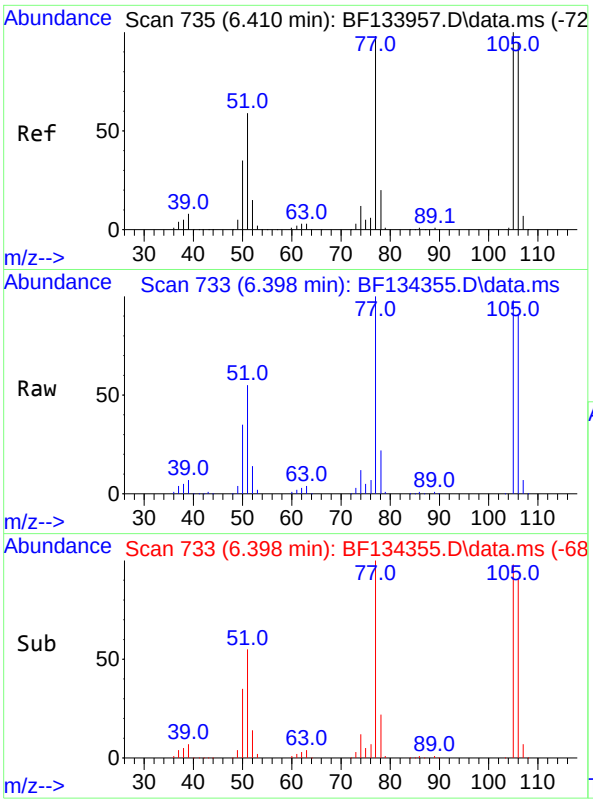


#8
2-Chlorophenol
Concen: 40.199 ng
RT: 6.628 min Scan# 772
Delta R.T. -0.006 min
Lab File: BF134355.D
Acq: 19 Jul 2023 13:01

Tgt Ion:128 Resp: 176003

Ion	Ratio	Lower	Upper
128	100		
130	30.2	11.7	51.7
64	53.5	31.3	71.3

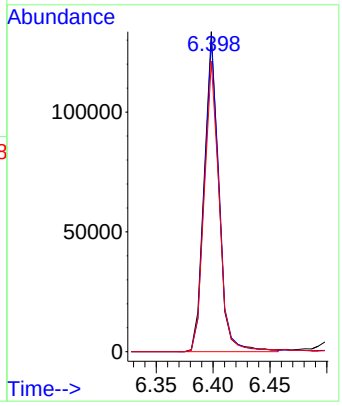




#9
Benzaldehyde
Concen: 40.741 ng
RT: 6.398 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF134355.D
Acq: 19 Jul 2023 13:01

Tgt Ion: 77 Resp: 11816

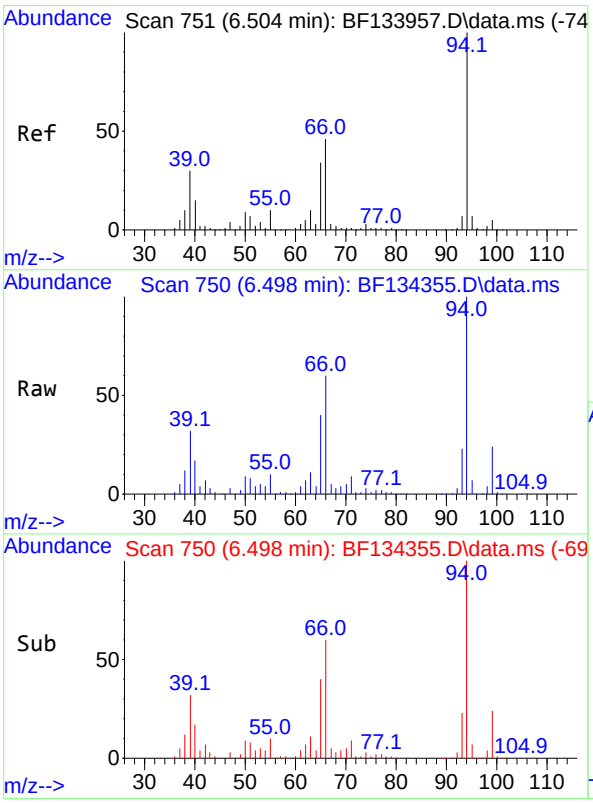
Ion	Ratio	Lower	Upper
77	100		
105	97.6	82.0	122.0
106	90.7	76.9	116.9



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

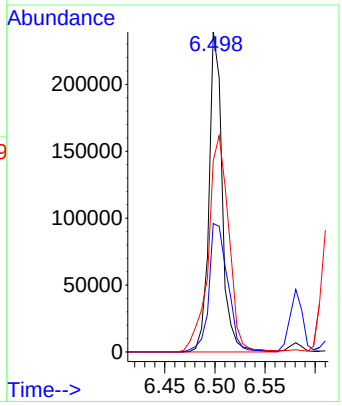
Reviewed By :Yogesh Patel 07/20/2023
Supervised By :mohammad ahmed 07/20/2023

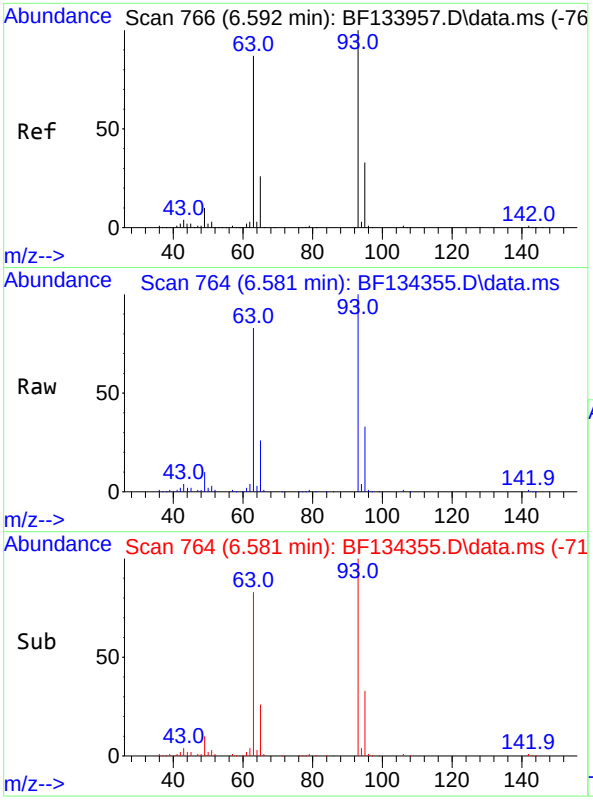


#10
Phenol
Concen: 39.312 ng
RT: 6.498 min Scan# 750
Delta R.T. 0.000 min
Lab File: BF134355.D
Acq: 19 Jul 2023 13:01

Tgt Ion: 94 Resp: 219241

Ion	Ratio	Lower	Upper
94	100		
65	40.2	14.2	54.2
66	59.8	26.4	66.4

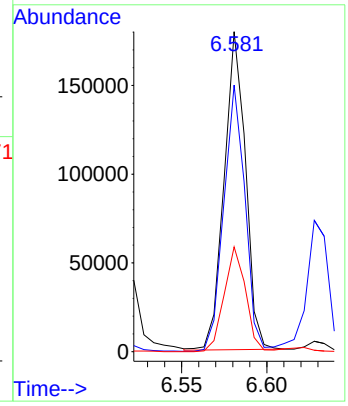




#11
bis(2-Chloroethyl)ether
Concen: 38.127 ng
RT: 6.581 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF134355.D
Acq: 19 Jul 2023 13:01

Tgt Ion: 93 Resp: 15654

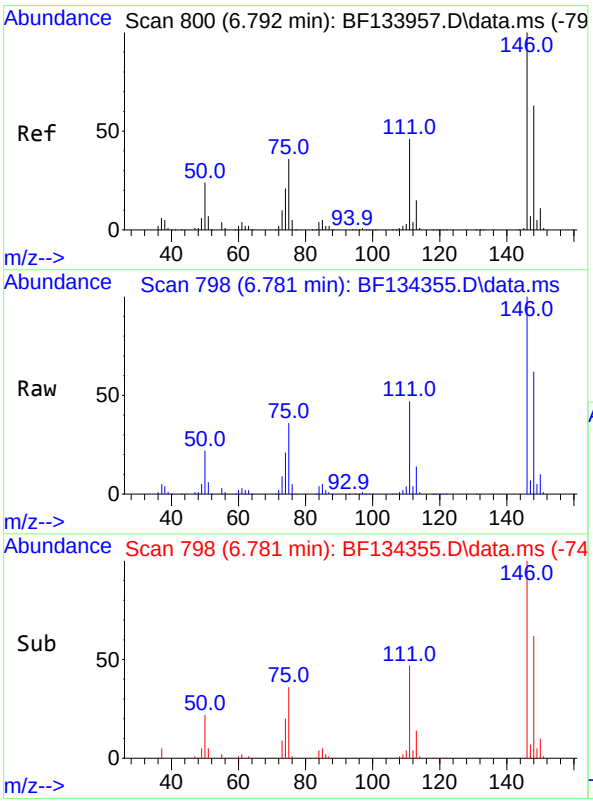
Ion	Ratio	Lower	Upper
93	100		
63	83.3	66.5	106.5
95	32.7	12.9	52.9



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

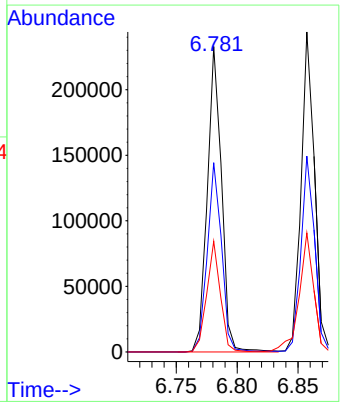
Reviewed By :Yogesh Patel 07/20/2023
Supervised By :mohammad ahmed 07/20/2023

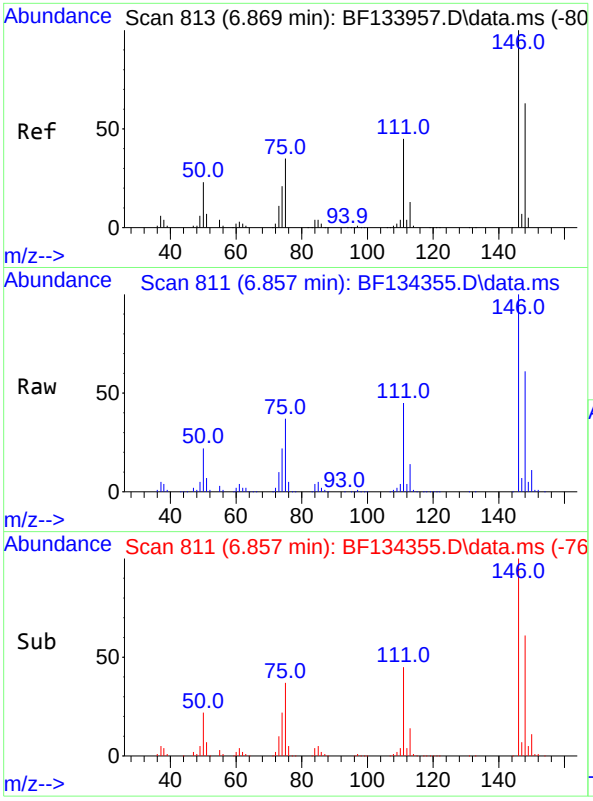


#12
1,3-Dichlorobenzene
Concen: 40.425 ng
RT: 6.781 min Scan# 798
Delta R.T. -0.006 min
Lab File: BF134355.D
Acq: 19 Jul 2023 13:01

Tgt Ion:146 Resp: 188692

Ion	Ratio	Lower	Upper
146	100		
148	62.0	50.5	75.7
75	36.3	29.0	43.6

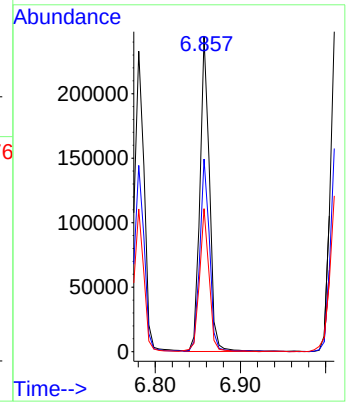




#13
1,4-Dichlorobenzene
Concen: 40.270 ng
RT: 6.857 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF134355.D
Acq: 19 Jul 2023 13:01

Tgt Ion:146 Resp: 18985

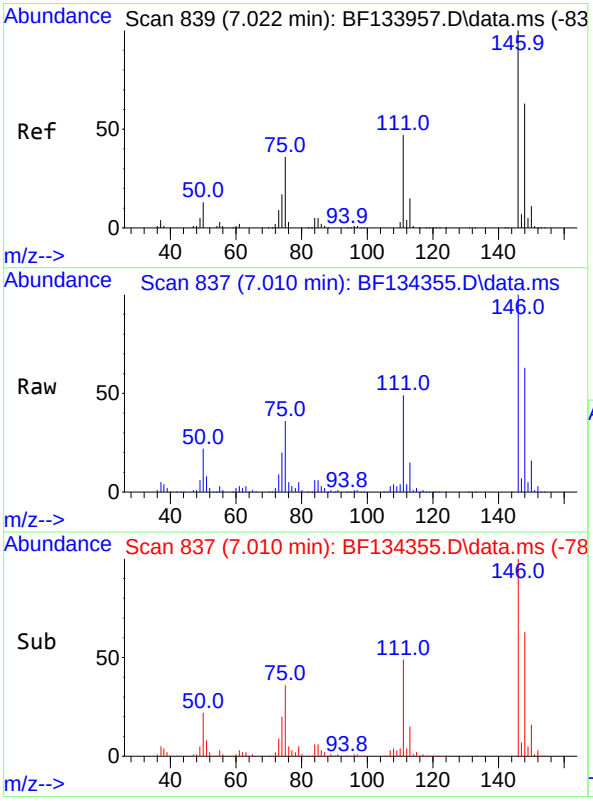
Ion	Ratio	Lower	Upper
146	100		
148	61.2	50.2	75.2
111	45.4	35.8	53.6



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

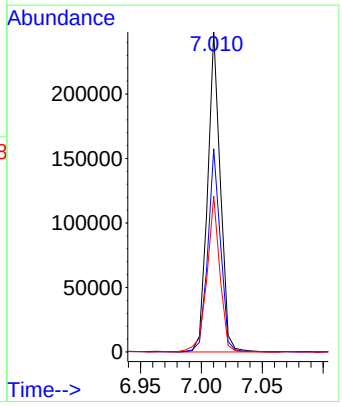
Reviewed By :Yogesh Patel 07/20/2023
Supervised By :mohammad ahmed 07/20/2023

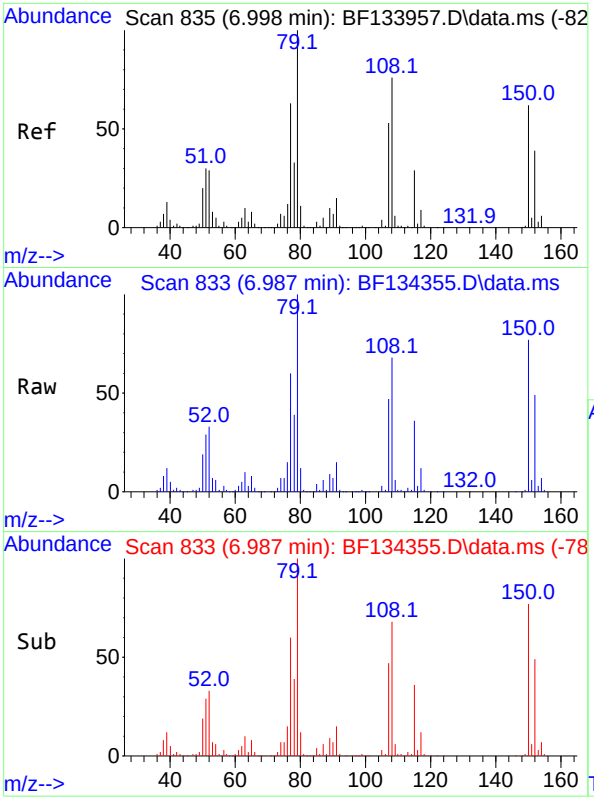


#14
1,2-Dichlorobenzene
Concen: 40.680 ng
RT: 7.010 min Scan# 837
Delta R.T. -0.006 min
Lab File: BF134355.D
Acq: 19 Jul 2023 13:01

Tgt Ion:146 Resp: 179618

Ion	Ratio	Lower	Upper
146	100		
148	63.5	50.6	76.0
111	48.7	38.0	57.0





#15
Benzyl Alcohol
Concen: 42.554 ng
RT: 6.987 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF134355.D
Acq: 19 Jul 2023 13:01

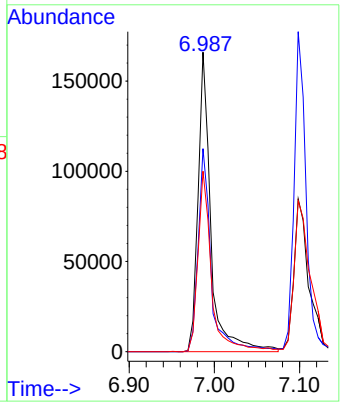
Tgt Ion: 79 Resp: 17400

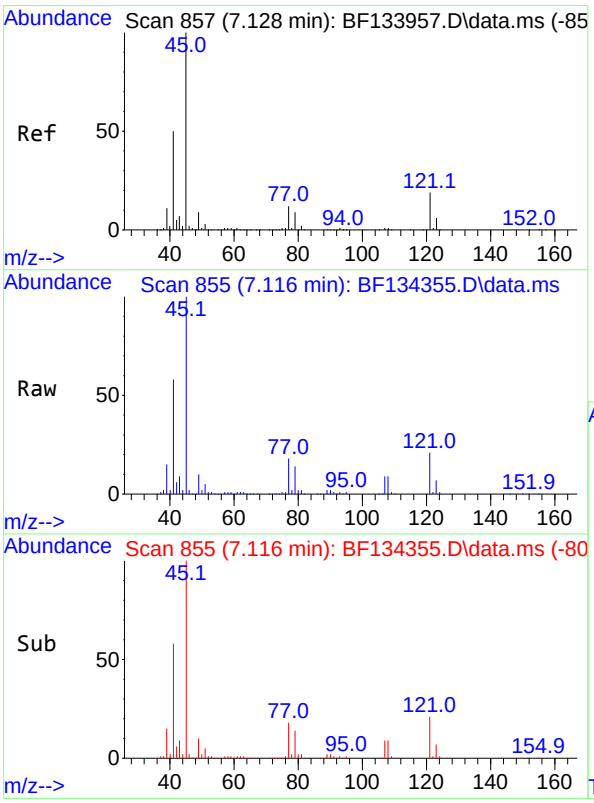
Ion	Ratio	Lower	Upper
79	100		
108	67.8	60.7	91.1
77	60.3	50.6	75.8

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/20/2023
Supervised By :mohammad ahmed 07/20/2023

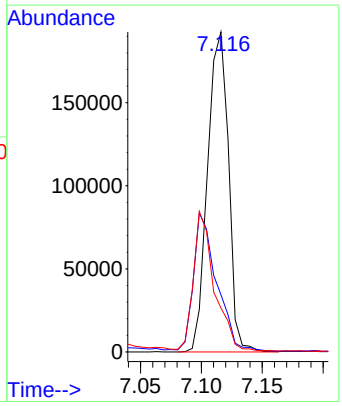


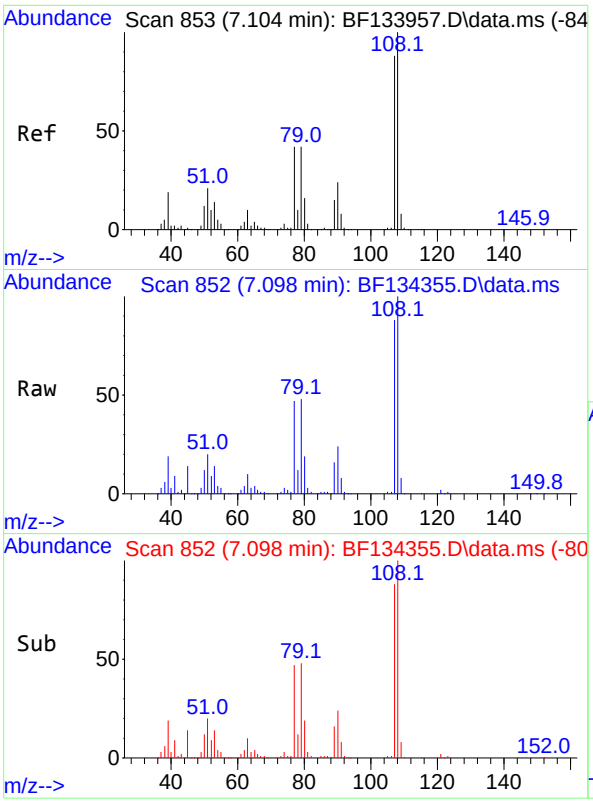


#16
2,2'-oxybis(1-Chloropropane)
Concen: 31.757 ng
RT: 7.116 min Scan# 855
Delta R.T. -0.006 min
Lab File: BF134355.D
Acq: 19 Jul 2023 13:01

Tgt Ion: 45 Resp: 230677

Ion	Ratio	Lower	Upper
45	100		
77	17.9	0.0	32.9
79	13.7	0.0	29.5

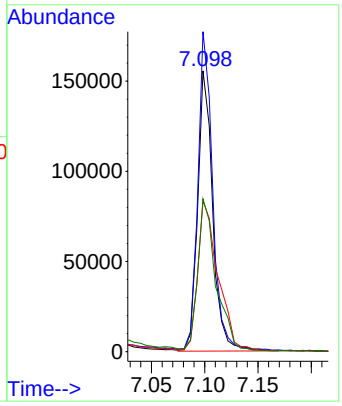




#17
2-Methylphenol
Concen: 38.906 ng
RT: 7.098 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF134355.D
Acq: 19 Jul 2023 13:01

Tgt Ion:107 Resp: 15253

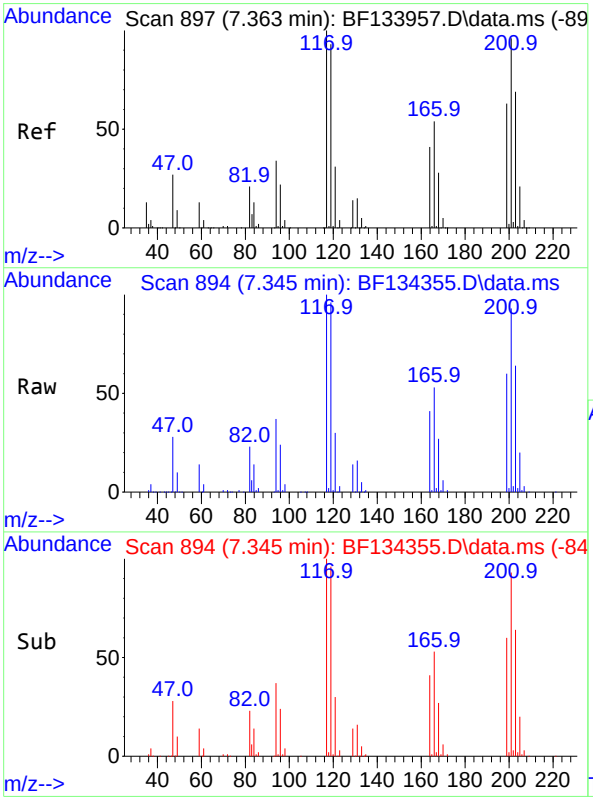
Ion	Ratio	Lower	Upper
107	100		
108	113.9	90.6	136.0
77	53.7	38.3	57.5
79	54.4	38.8	58.2



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

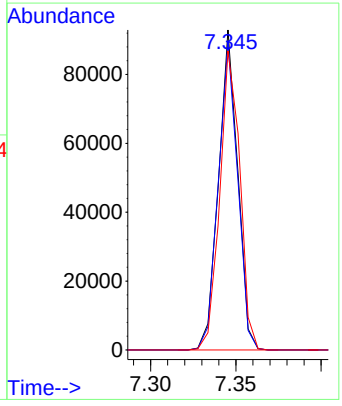
Reviewed By :Yogesh Patel 07/20/2023
Supervised By :mohammad ahmed 07/20/2023

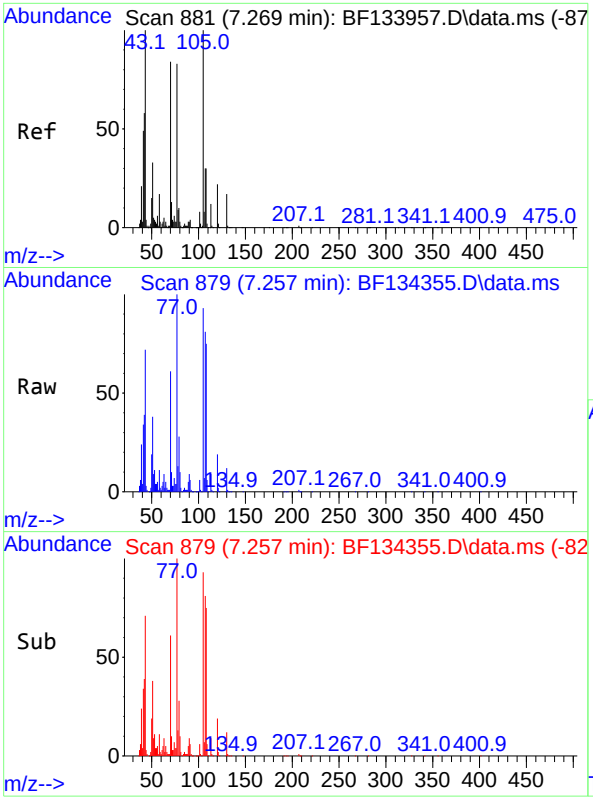


#18
Hexachloroethane
Concen: 41.537 ng
RT: 7.345 min Scan# 894
Delta R.T. -0.006 min
Lab File: BF134355.D
Acq: 19 Jul 2023 13:01

Tgt Ion:117 Resp: 72613

Ion	Ratio	Lower	Upper
117	100		
119	96.3	74.2	111.4
201	93.5	77.2	115.8

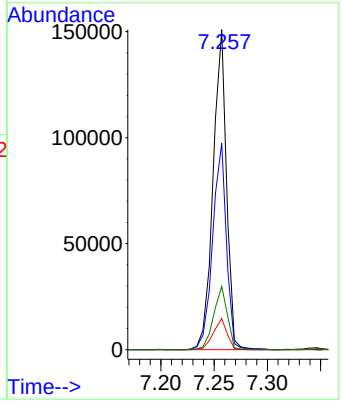




#19
n-Nitroso-di-n-propylamine
Concen: 39.503 ng
RT: 7.257 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF134355.D
Acq: 19 Jul 2023 13:01

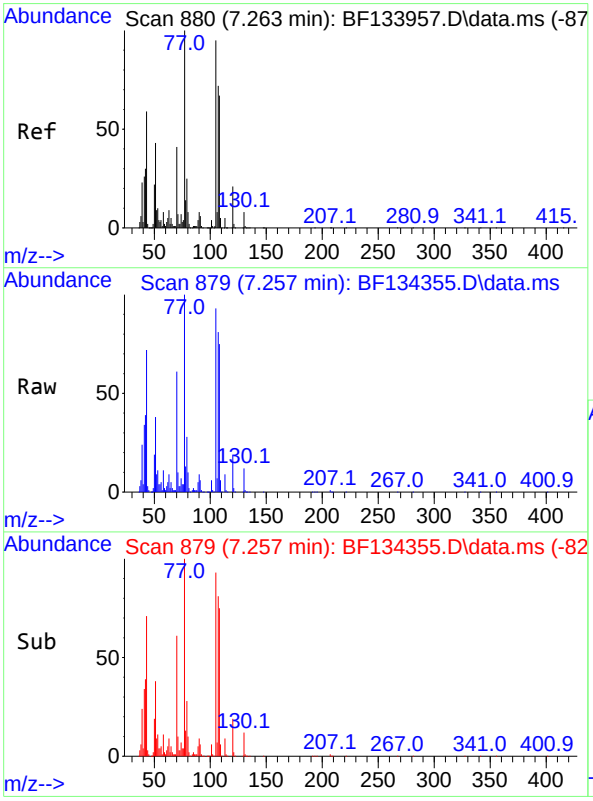
Tgt Ion: 70 Resp: 13287

Ion	Ratio	Lower	Upper
70	100		
42	64.5	54.7	82.1
101	9.7	7.7	11.5
130	19.8	16.4	24.6



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

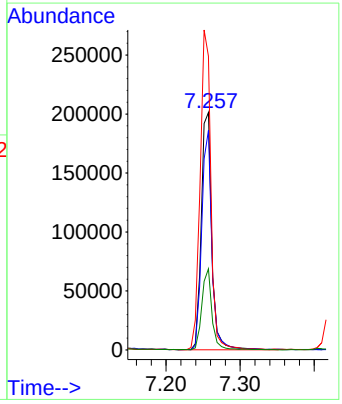
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 07/20/2023
Supervised By :mohammad ahmed 07/20/2023

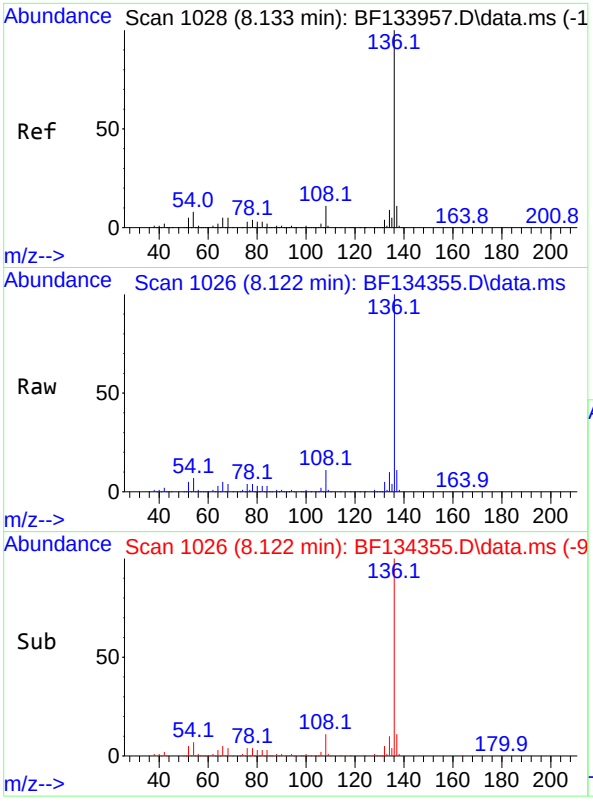


#20
3+4-Methylphenols
Concen: 41.686 ng
RT: 7.257 min Scan# 879
Delta R.T. 0.006 min
Lab File: BF134355.D
Acq: 19 Jul 2023 13:01

Tgt Ion:107 Resp: 198272

Ion	Ratio	Lower	Upper
107	100		
108	92.4	73.2	113.2
77	123.7	118.3	158.3
79	34.2	14.7	54.7

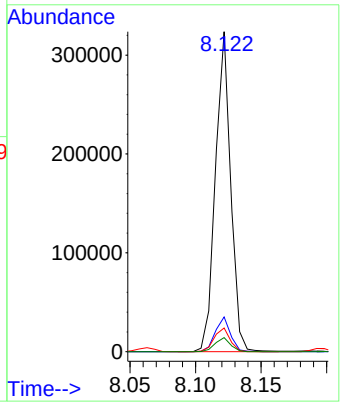




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.122 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134355.D
Acq: 19 Jul 2023 13:01

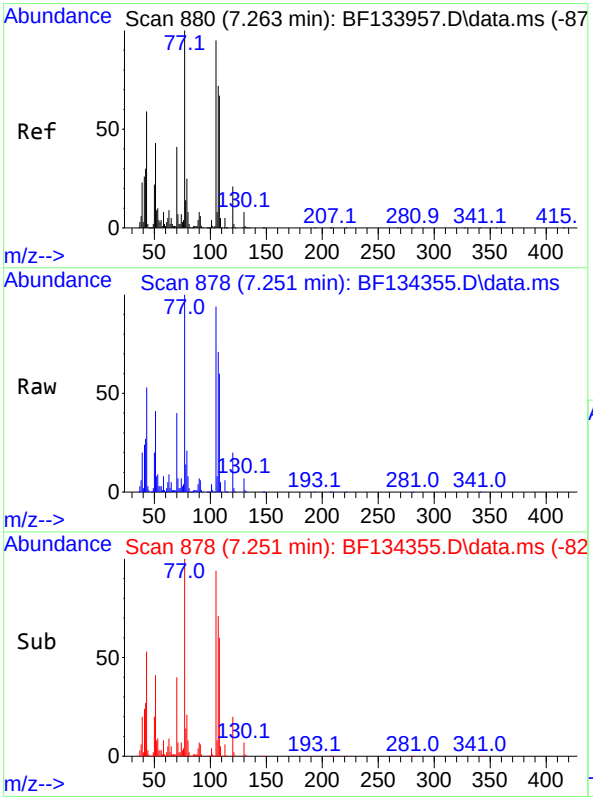
Tgt Ion:136 Resp: 26164

Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.6	12.8
54	7.4	6.5	9.7
68	4.4	4.2	6.2



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

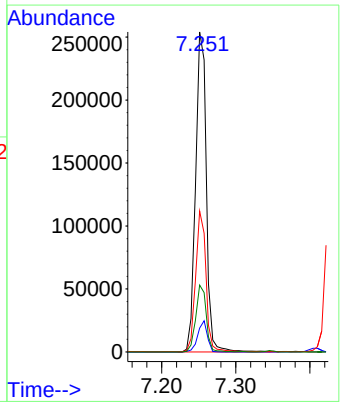
Manual Integrations APPROVED
Reviewed By :Yogesh Patel 07/20/2023
Supervised By :mohammad ahmed 07/20/2023

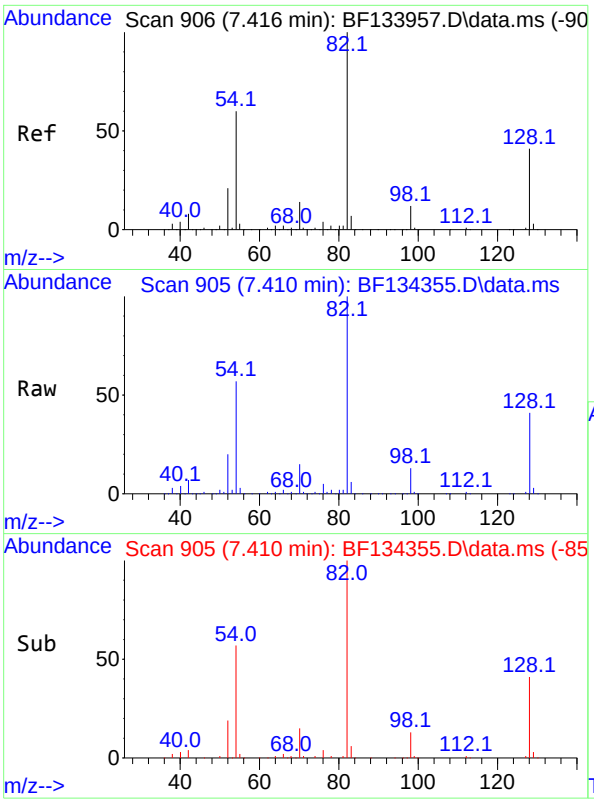


#22
Acetophenone
Concen: 42.944 ng
RT: 7.251 min Scan# 878
Delta R.T. -0.006 min
Lab File: BF134355.D
Acq: 19 Jul 2023 13:01

Tgt Ion:105 Resp: 255537

Ion	Ratio	Lower	Upper
105	100		
71	7.4	5.5	8.3
51	44.1	36.5	54.7
120	20.9	17.3	25.9

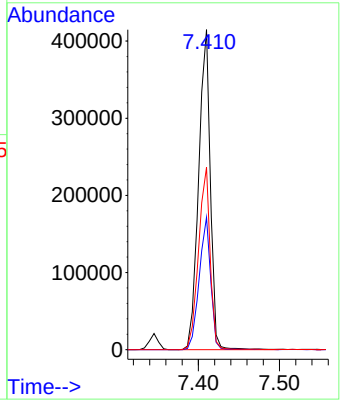




#23
Nitrobenzene-d5
Concen: 85.641 ng
RT: 7.410 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF134355.D
Acq: 19 Jul 2023 13:01

Tgt Ion: 82 Resp: 41567

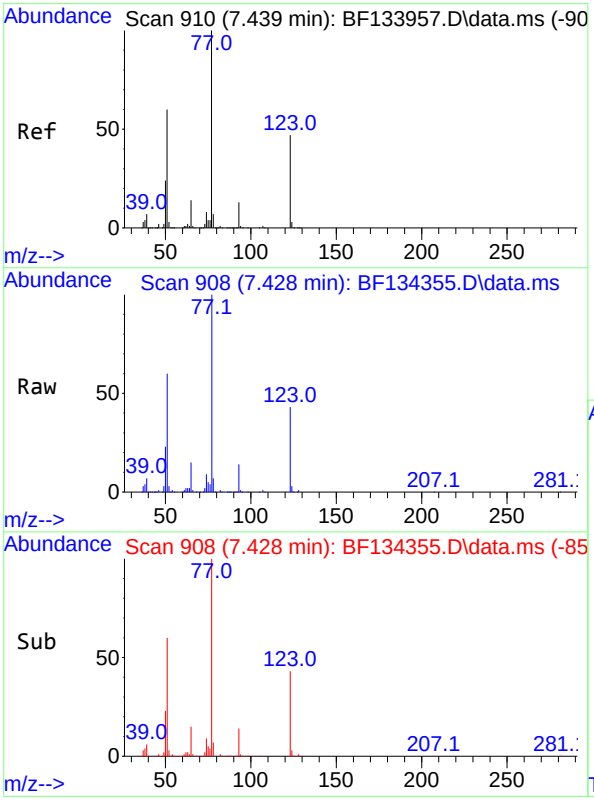
Ion	Ratio	Lower	Upper
82	100		
128	41.4	32.5	48.7
54	57.0	48.2	72.2



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

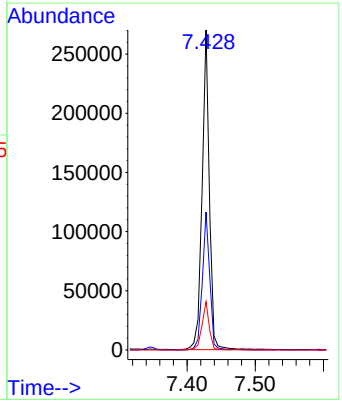
Reviewed By :Yogesh Patel 07/20/2023
Supervised By :mohammad ahmed 07/20/2023

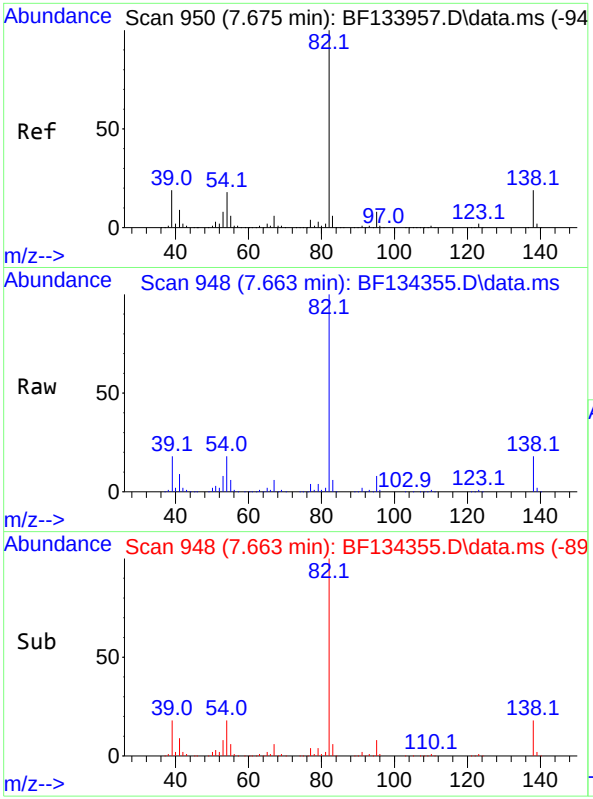


#24
Nitrobenzene
Concen: 40.845 ng
RT: 7.428 min Scan# 908
Delta R.T. 0.000 min
Lab File: BF134355.D
Acq: 19 Jul 2023 13:01

Tgt Ion: 77 Resp: 200336

Ion	Ratio	Lower	Upper
77	100		
123	43.1	37.8	56.6
65	15.1	11.3	16.9

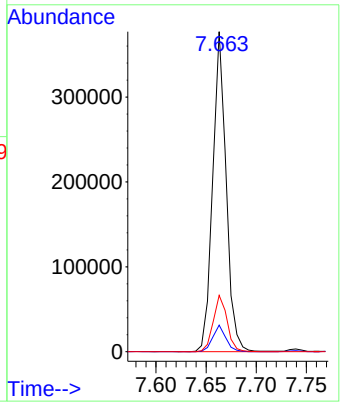




#25
Isophorone
Concen: 39.922 ng
RT: 7.663 min Scan# 94
Delta R.T. 0.000 min
Lab File: BF134355.D
Acq: 19 Jul 2023 13:01

Tgt Ion: 82 Resp: 35216

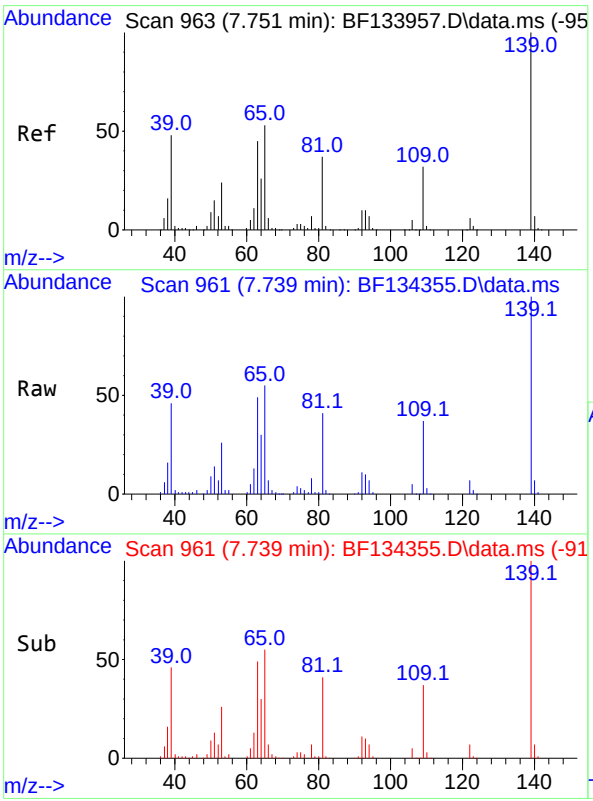
Ion	Ratio	Lower	Upper
82	100		
95	8.3	6.1	9.1
138	17.6	15.2	22.8



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

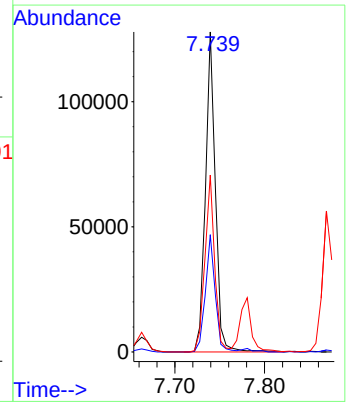
Reviewed By :Yogesh Patel 07/20/2023
Supervised By :mohammad ahmed 07/20/2023

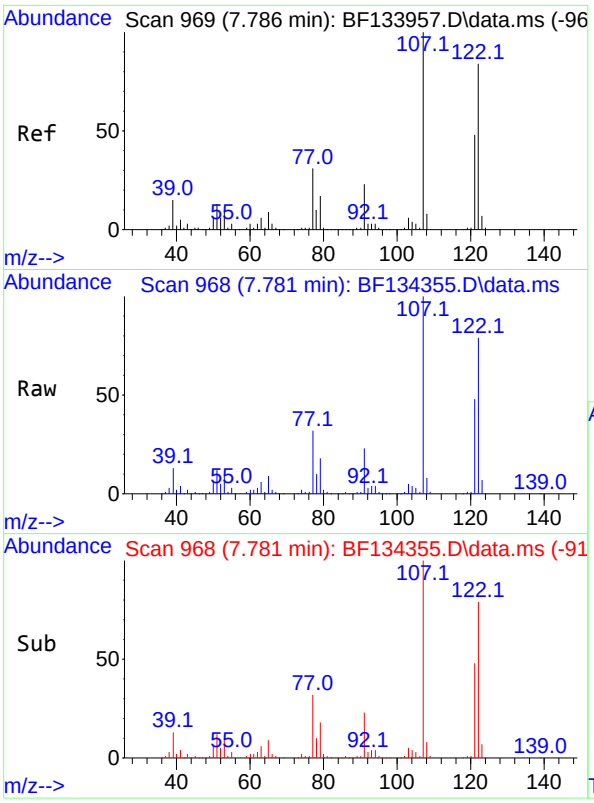


#26
2-Nitrophenol
Concen: 41.796 ng
RT: 7.739 min Scan# 961
Delta R.T. -0.006 min
Lab File: BF134355.D
Acq: 19 Jul 2023 13:01

Tgt Ion:139 Resp: 98344

Ion	Ratio	Lower	Upper
139	100		
109	36.6	25.8	38.8
65	55.3	42.4	63.6

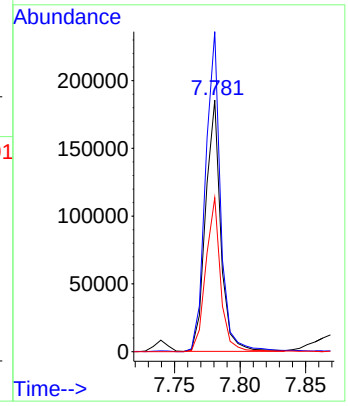




#27
2,4-Dimethylphenol
Concen: 40.147 ng
RT: 7.781 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF134355.D
Acq: 19 Jul 2023 13:01

Tgt Ion:122 Resp: 14952

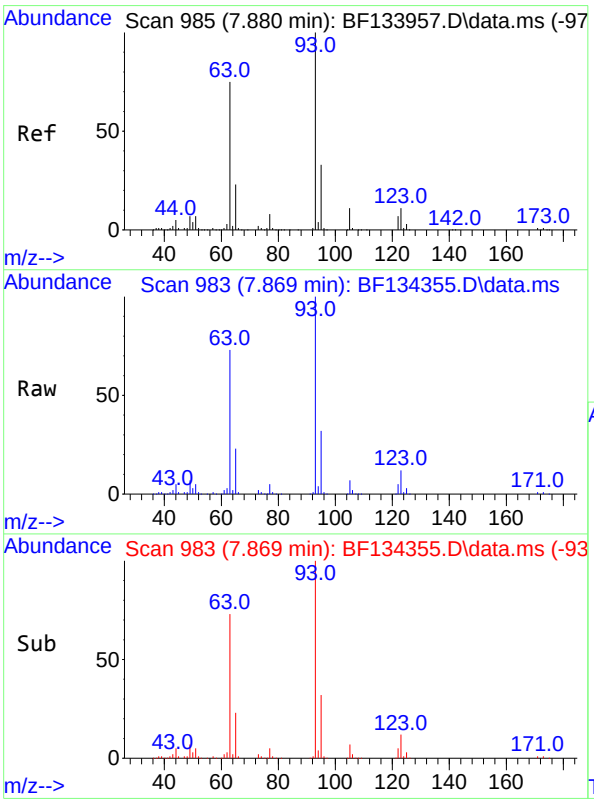
Ion	Ratio	Lower	Upper
122	100		
107	127.3	95.5	143.3
121	61.2	45.5	68.3



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

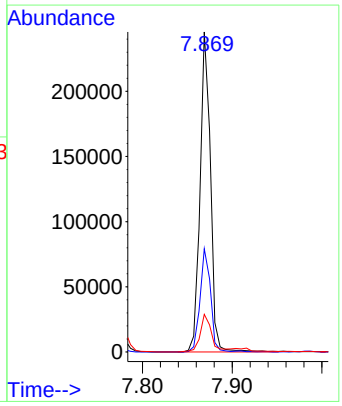
Reviewed By :Yogesh Patel 07/20/2023
Supervised By :mohammad ahmed 07/20/2023

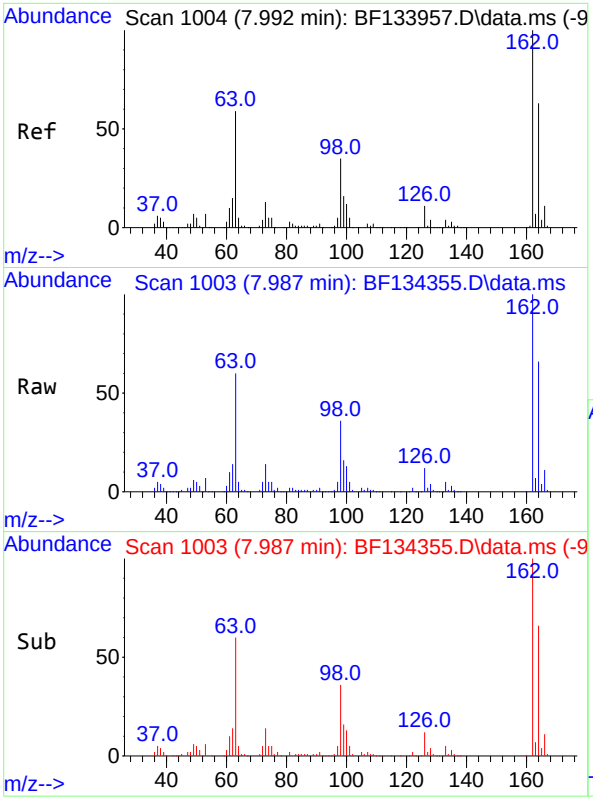


#28
bis(2-Chloroethoxy)methane
Concen: 38.699 ng
RT: 7.869 min Scan# 983
Delta R.T. -0.006 min
Lab File: BF134355.D
Acq: 19 Jul 2023 13:01

Tgt Ion: 93 Resp: 197667

Ion	Ratio	Lower	Upper
93	100		
95	32.2	26.5	39.7
123	11.7	9.1	13.7

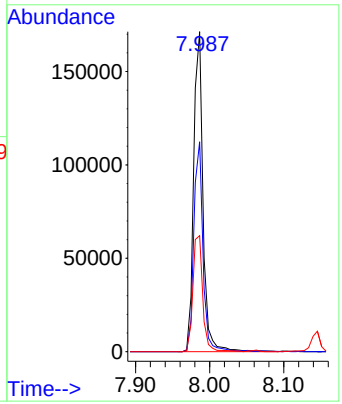




#29
2,4-Dichlorophenol
Concen: 40.603 ng
RT: 7.987 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134355.D
Acq: 19 Jul 2023 13:01

Tgt Ion:162 Resp: 14995

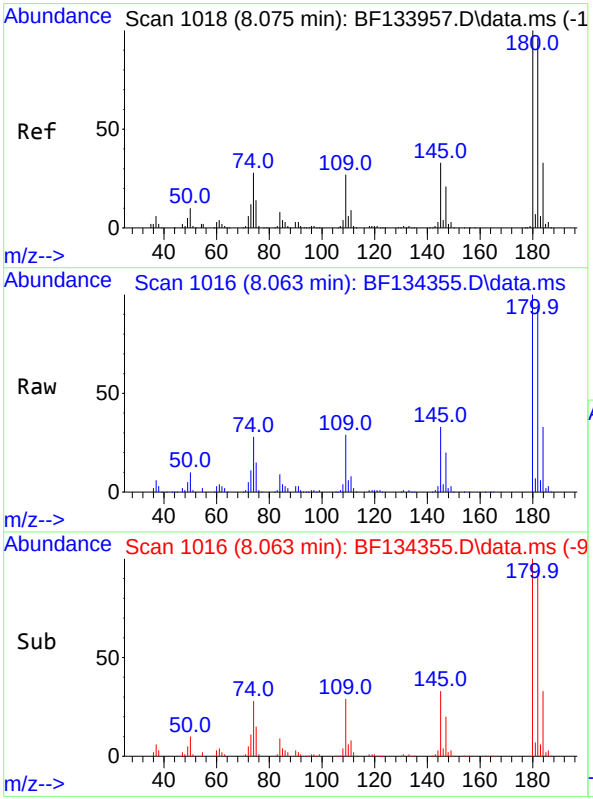
Ion	Ratio	Lower	Upper
162	100		
164	65.6	43.2	83.2
98	36.3	14.9	54.9



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

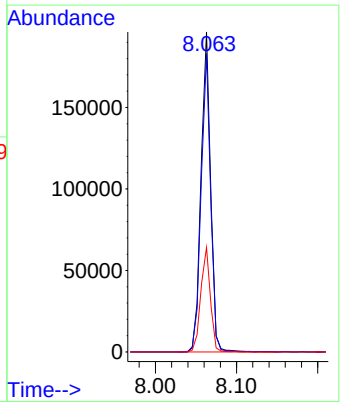
Reviewed By :Yogesh Patel 07/20/2023
Supervised By :mohammad ahmed 07/20/2023

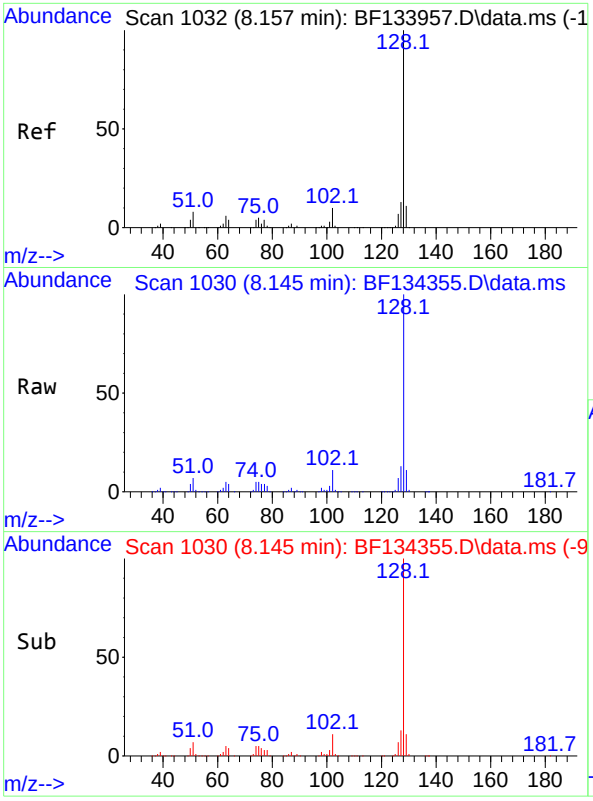


#30
1,2,4-Trichlorobenzene
Concen: 42.282 ng
RT: 8.063 min Scan# 1016
Delta R.T. 0.000 min
Lab File: BF134355.D
Acq: 19 Jul 2023 13:01

Tgt Ion:180 Resp: 161130

Ion	Ratio	Lower	Upper
180	100		
182	93.2	77.1	115.7
145	32.7	26.0	39.0

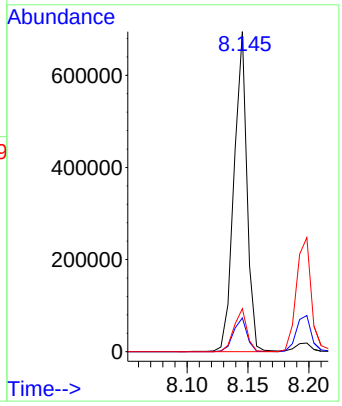




#31
Naphthalene
Concen: 40.672 ng
RT: 8.145 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134355.D
Acq: 19 Jul 2023 13:01

Tgt Ion:128 Resp: 51402

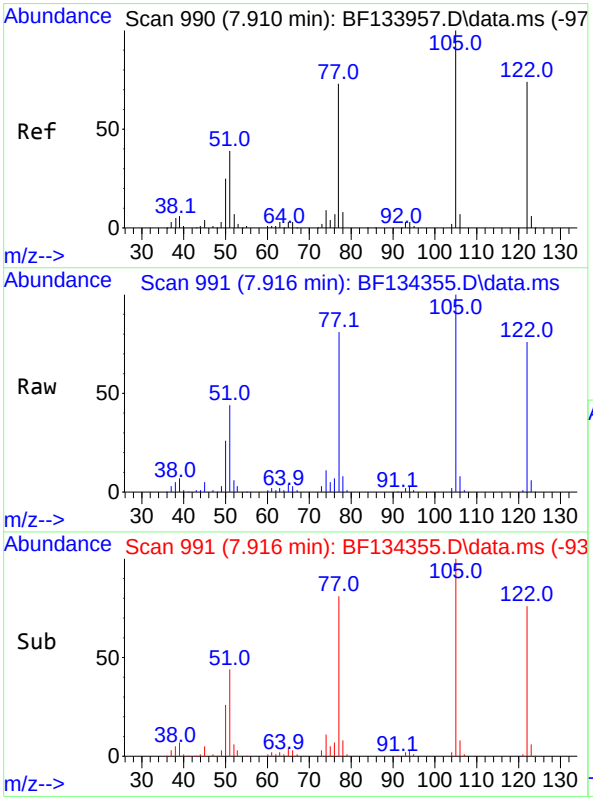
Ion	Ratio	Lower	Upper
128	100		
129	10.6	8.7	13.1
127	13.5	10.6	15.8



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

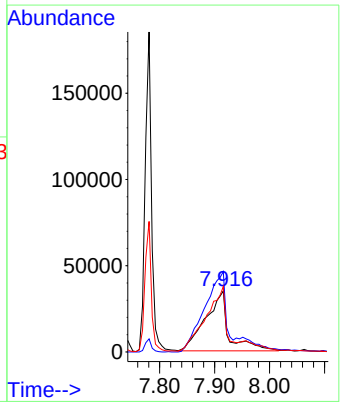
Reviewed By :Yogesh Patel 07/20/2023
Supervised By :mohammad ahmed 07/20/2023

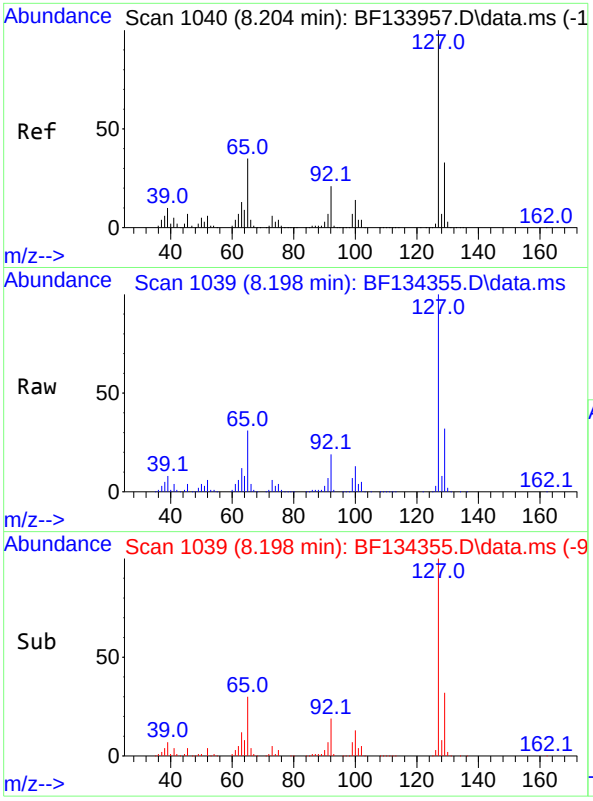


#32
Benzoic acid
Concen: 36.770 ng m
RT: 7.916 min Scan# 991
Delta R.T. 0.012 min
Lab File: BF134355.D
Acq: 19 Jul 2023 13:01

Tgt Ion:122 Resp: 102620

Ion	Ratio	Lower	Upper
122	100		
105	131.7	109.7	149.7
77	107.2	76.0	116.0

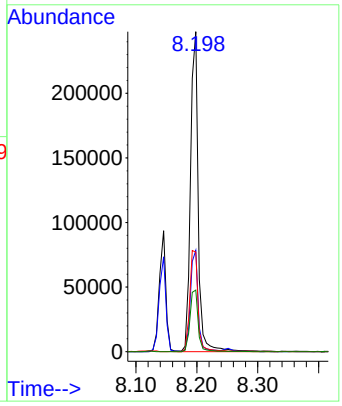




#33
4-Chloroaniline
Concen: 40.675 ng
RT: 8.198 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134355.D
Acq: 19 Jul 2023 13:01

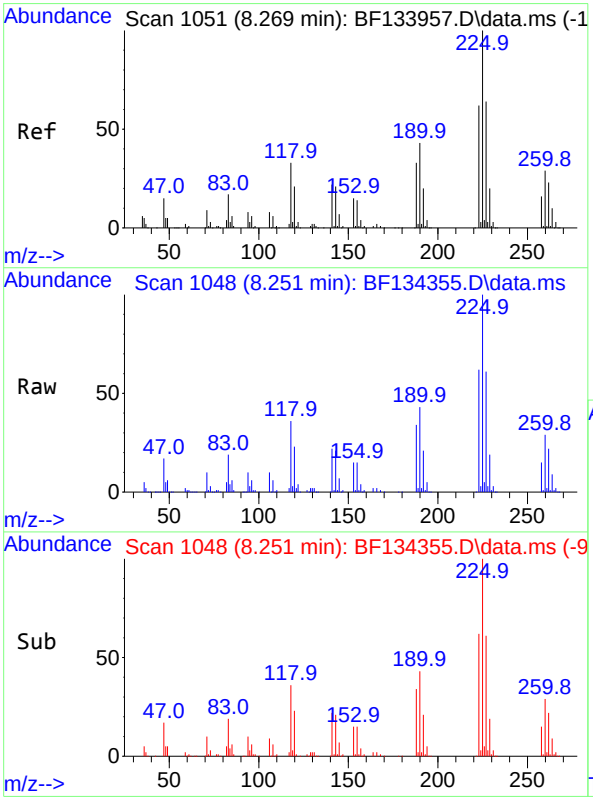
Tgt Ion:127 Resp: 21989

Ion	Ratio	Lower	Upper
127	100		
129	31.7	26.4	39.6
65	31.1	27.8	41.8
92	19.3	16.4	24.6



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

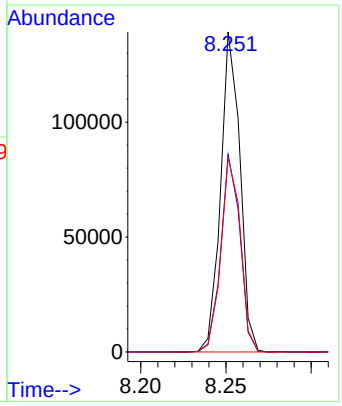
Manual Integrations APPROVED
Reviewed By :Yogesh Patel 07/20/2023
Supervised By :mohammad ahmed 07/20/2023

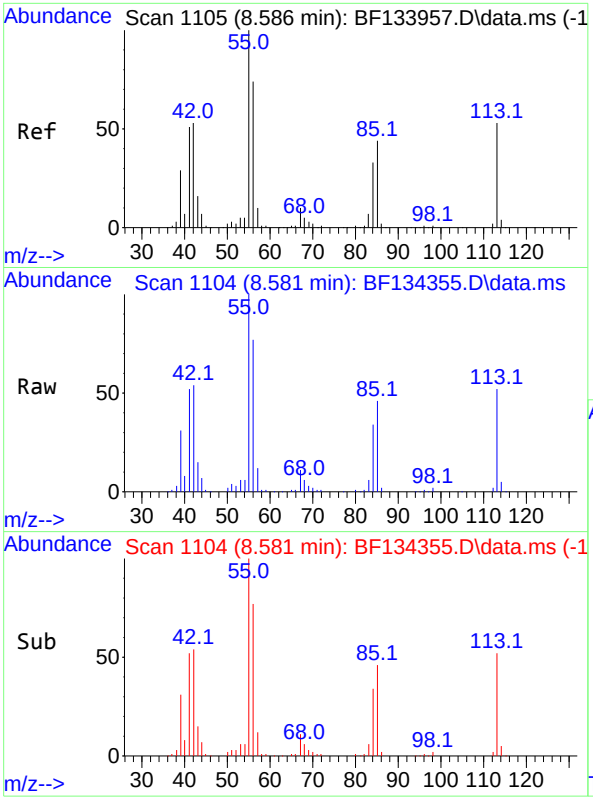


#34
Hexachlorobutadiene
Concen: 45.652 ng
RT: 8.251 min Scan# 1048
Delta R.T. -0.006 min
Lab File: BF134355.D
Acq: 19 Jul 2023 13:01

Tgt Ion:225 Resp: 109744

Ion	Ratio	Lower	Upper
225	100		
223	61.7	49.8	74.8
227	60.8	51.0	76.4





#35
Caprolactam
Concen: 37.031 ng
RT: 8.581 min Scan# 11
Delta R.T. 0.006 min
Lab File: BF134355.D
Acq: 19 Jul 2023 13:01

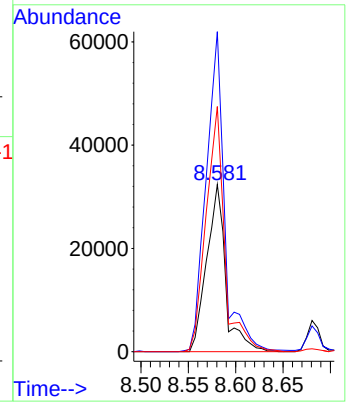
Tgt Ion:113 Resp: 4503

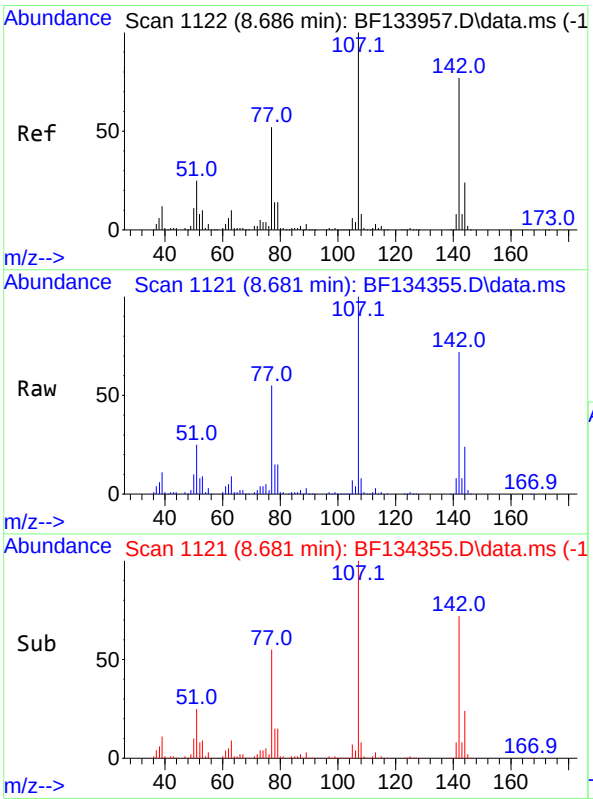
Ion	Ratio	Lower	Upper
113	100		
55	191.4	170.2	210.2
56	146.6	121.4	161.4

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/20/2023
Supervised By :mohammad ahmed 07/20/2023

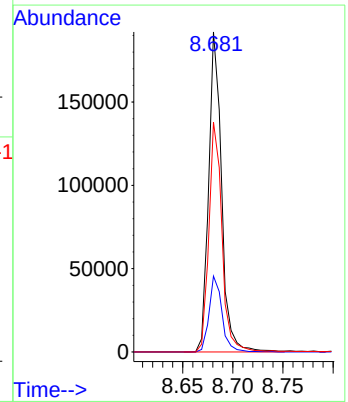


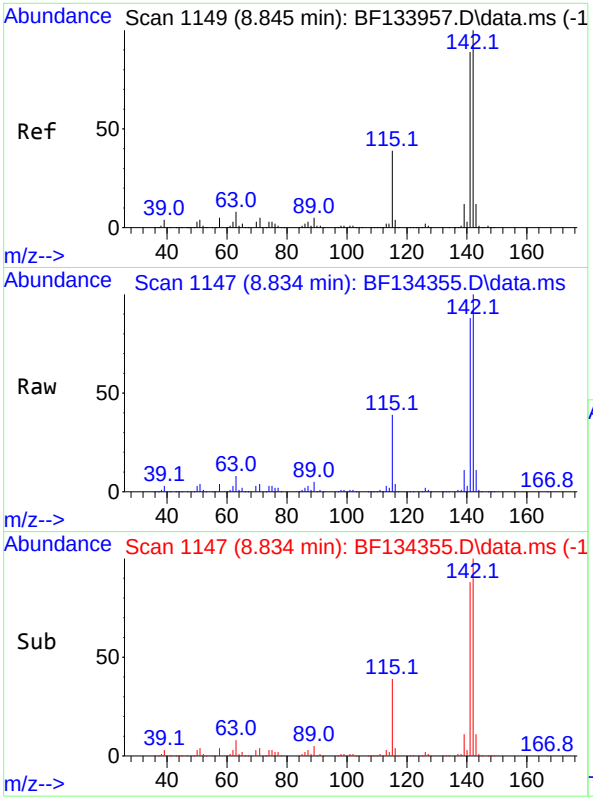


#36
4-Chloro-3-methylphenol
Concen: 41.741 ng
RT: 8.681 min Scan# 1121
Delta R.T. 0.000 min
Lab File: BF134355.D
Acq: 19 Jul 2023 13:01

Tgt Ion:107 Resp: 173184

Ion	Ratio	Lower	Upper
107	100		
144	23.7	19.6	29.4
142	71.9	61.4	92.2

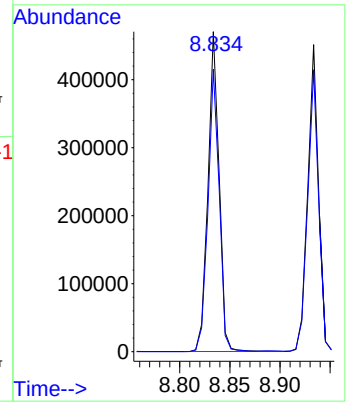




#37
2-Methylnaphthalene
Concen: 40.848 ng
RT: 8.834 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF134355.D
Acq: 19 Jul 2023 13:01

Tgt Ion:142 Resp: 36506

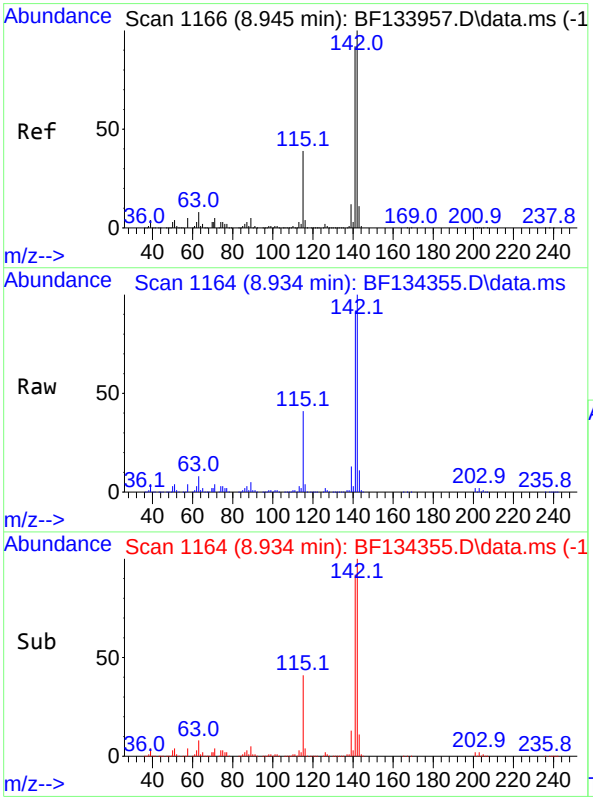
Ion	Ratio	Lower	Upper
142	100		
141	88.3	71.0	106.4



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

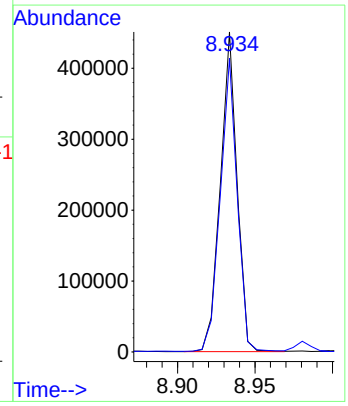
Reviewed By :Yogesh Patel 07/20/2023
Supervised By :mohammad ahmed 07/20/2023

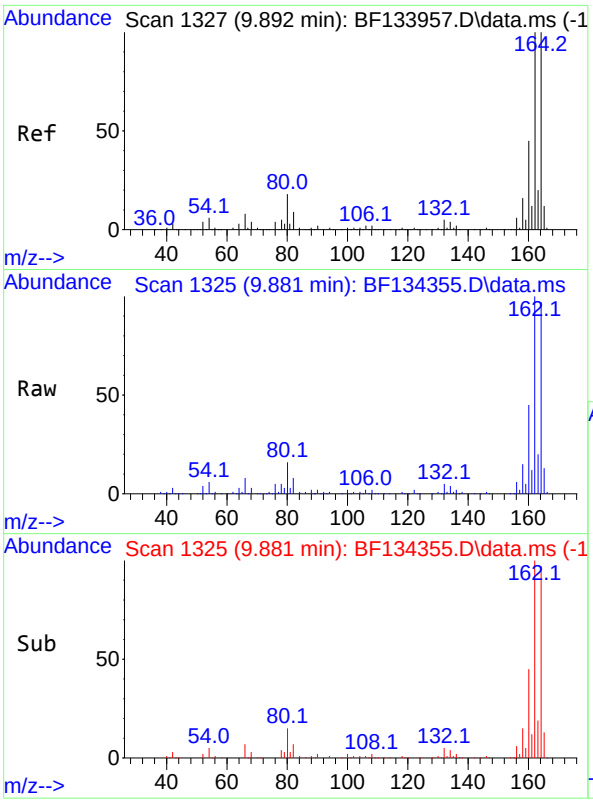


#38
1-Methylnaphthalene
Concen: 40.659 ng
RT: 8.934 min Scan# 1164
Delta R.T. -0.006 min
Lab File: BF134355.D
Acq: 19 Jul 2023 13:01

Tgt Ion:142 Resp: 337809

Ion	Ratio	Lower	Upper
142	100		
141	91.8	73.5	110.3

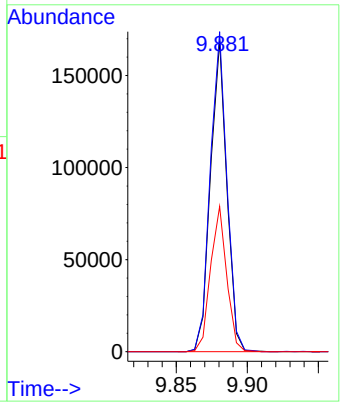




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.881 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134355.D
Acq: 19 Jul 2023 13:01

Tgt Ion:164 Resp: 13489

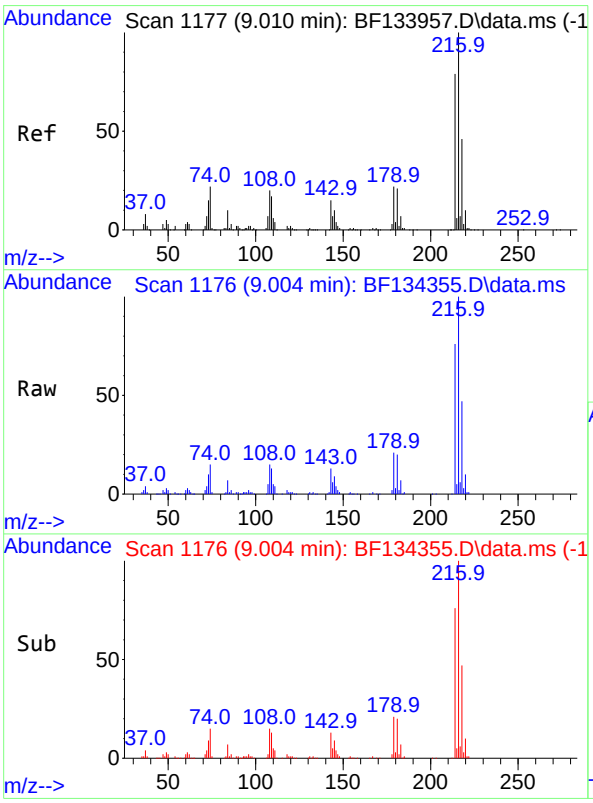
Ion	Ratio	Lower	Upper
164	100		
162	102.9	80.0	120.0
160	46.7	35.9	53.9



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

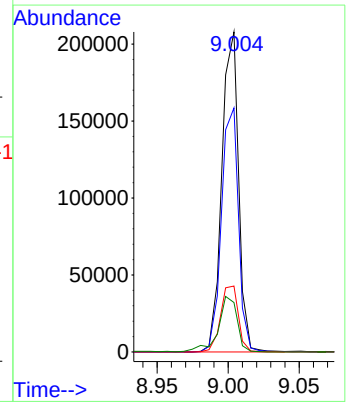
Reviewed By :Yogesh Patel 07/20/2023
Supervised By :mohammad ahmed 07/20/2023

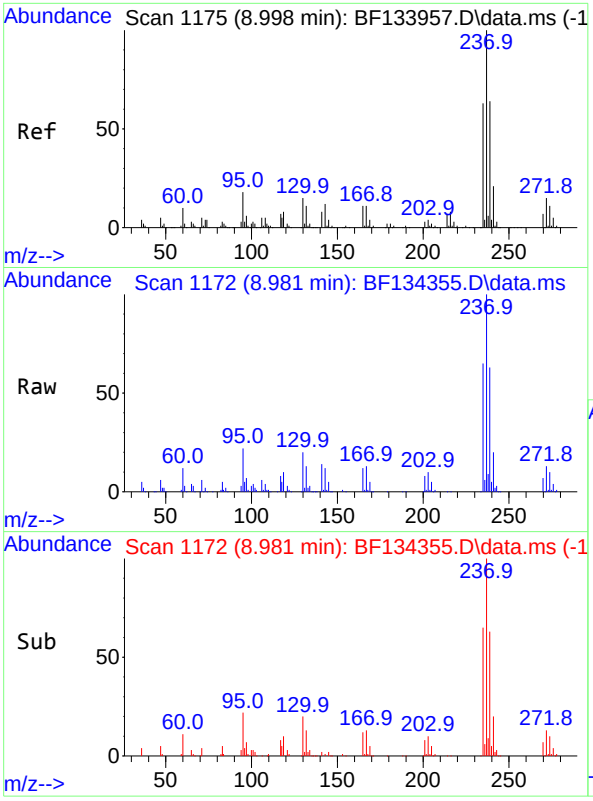


#40
1,2,4,5-Tetrachlorobenzene
Concen: 42.621 ng
RT: 9.004 min Scan# 1176
Delta R.T. 0.000 min
Lab File: BF134355.D
Acq: 19 Jul 2023 13:01

Tgt Ion:216 Resp: 170336

Ion	Ratio	Lower	Upper
216	100		
214	78.1	64.1	96.1
179	22.1	17.3	25.9
108	19.6	16.2	24.2

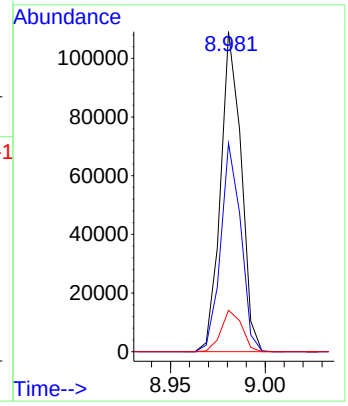




#41
Hexachlorocyclopentadiene
Concen: 43.559 ng
RT: 8.981 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF134355.D
Acq: 19 Jul 2023 13:01

Tgt Ion:237 Resp: 8258

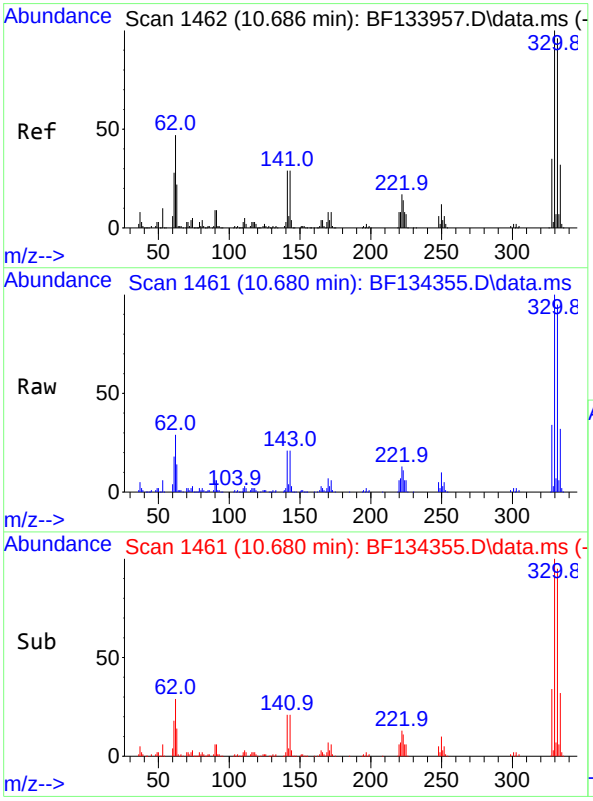
Ion	Ratio	Lower	Upper
237	100		
235	65.2	42.8	82.8
272	13.0	0.0	34.6



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

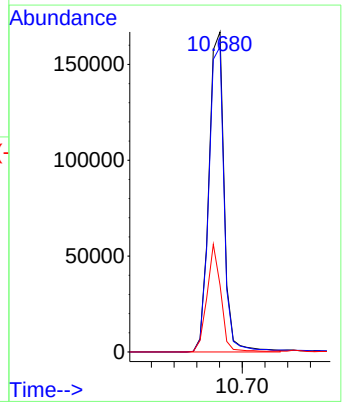
Reviewed By :Yogesh Patel 07/20/2023
Supervised By :mohammad ahmed 07/20/2023

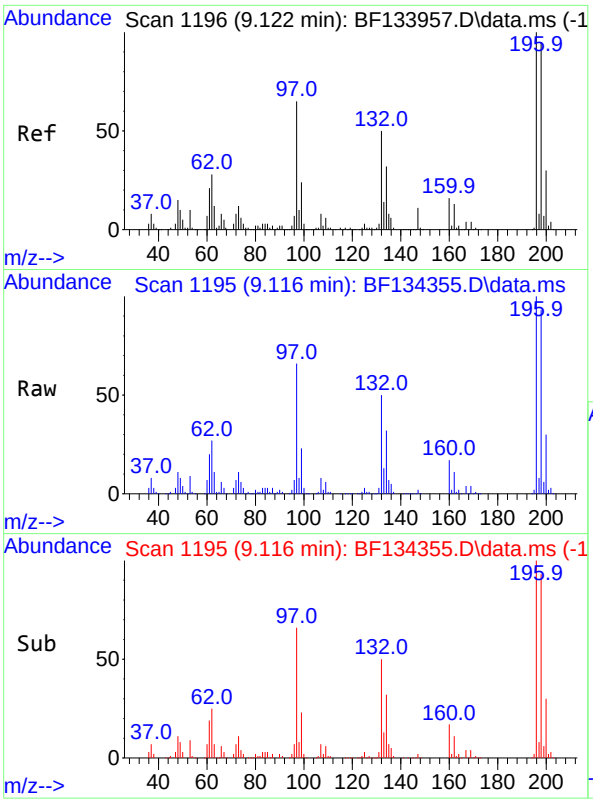


#42
2,4,6-Tribromophenol
Concen: 91.840 ng
RT: 10.680 min Scan# 1461
Delta R.T. 0.000 min
Lab File: BF134355.D
Acq: 19 Jul 2023 13:01

Tgt Ion:330 Resp: 155331

Ion	Ratio	Lower	Upper
330	100		
332	96.5	77.0	115.6
141	30.7	26.3	39.5

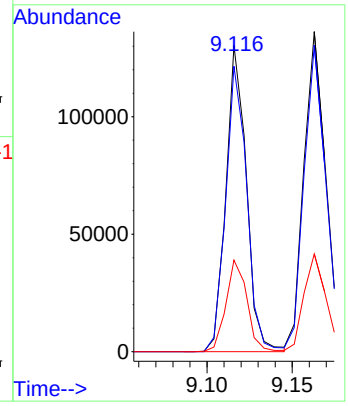




#43
2,4,6-Trichlorophenol
Concen: 40.030 ng
RT: 9.116 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF134355.D
Acq: 19 Jul 2023 13:01

Tgt Ion:196 Resp: 10890

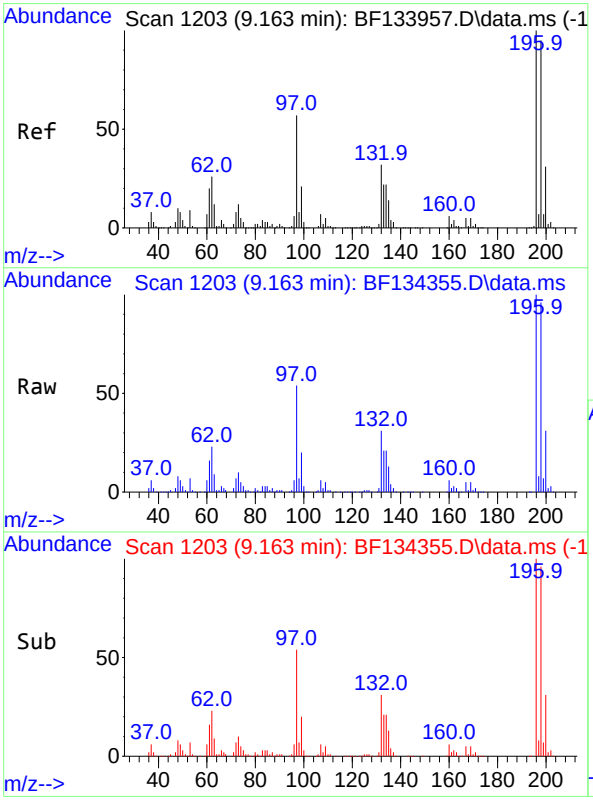
Ion	Ratio	Lower	Upper
196	100		
198	93.1	75.6	113.4
200	29.9	24.4	36.6



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

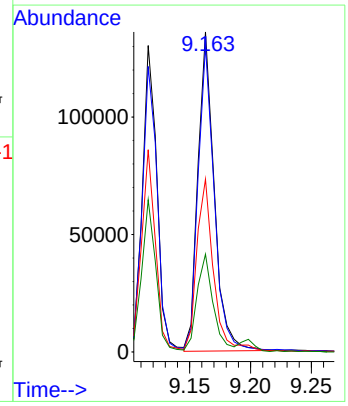
Reviewed By :Yogesh Patel 07/20/2023
Supervised By :mohammad ahmed 07/20/2023

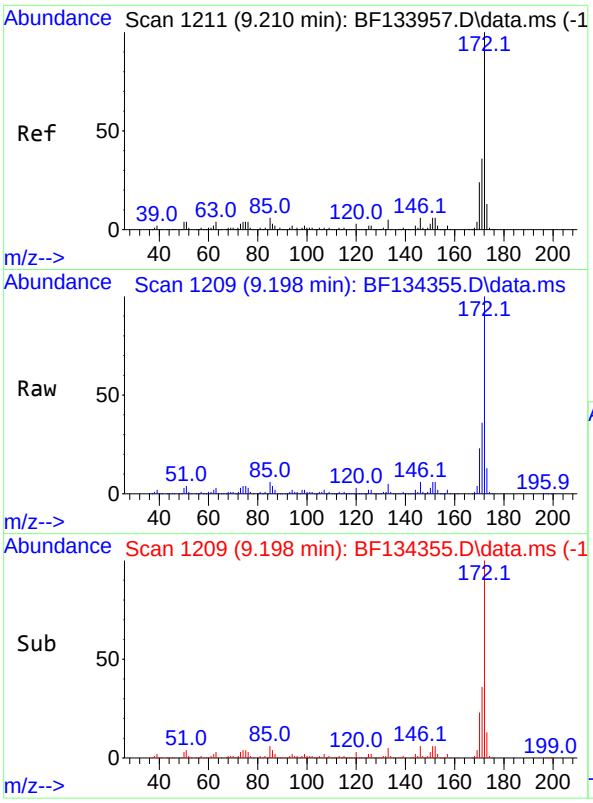


#44
2,4,5-Trichlorophenol
Concen: 39.638 ng
RT: 9.163 min Scan# 1203
Delta R.T. 0.000 min
Lab File: BF134355.D
Acq: 19 Jul 2023 13:01

Tgt Ion:196 Resp: 126849

Ion	Ratio	Lower	Upper
196	100		
198	95.7	75.7	113.5
97	54.0	45.8	68.6
132	30.5	26.2	39.4

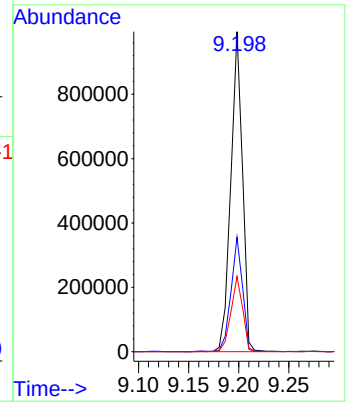




#45
2-Fluorobiphenyl
Concen: 86.504 ng
RT: 9.198 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF134355.D
Acq: 19 Jul 2023 13:01

Tgt Ion:172 Resp: 80260

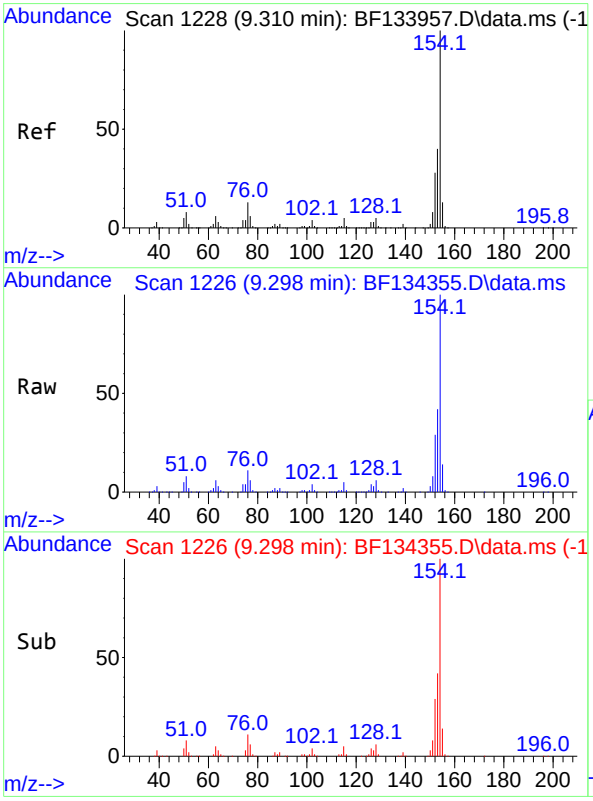
Ion	Ratio	Lower	Upper
172	100		
171	35.8	28.6	43.0
170	23.5	19.4	29.0



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

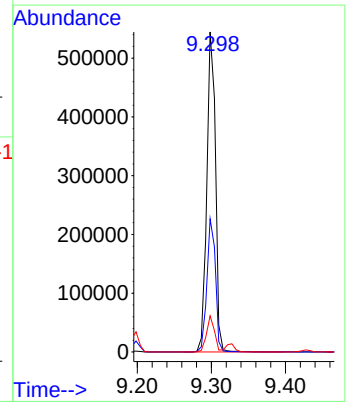
Reviewed By :Yogesh Patel 07/20/2023
Supervised By :mohammad ahmed 07/20/2023

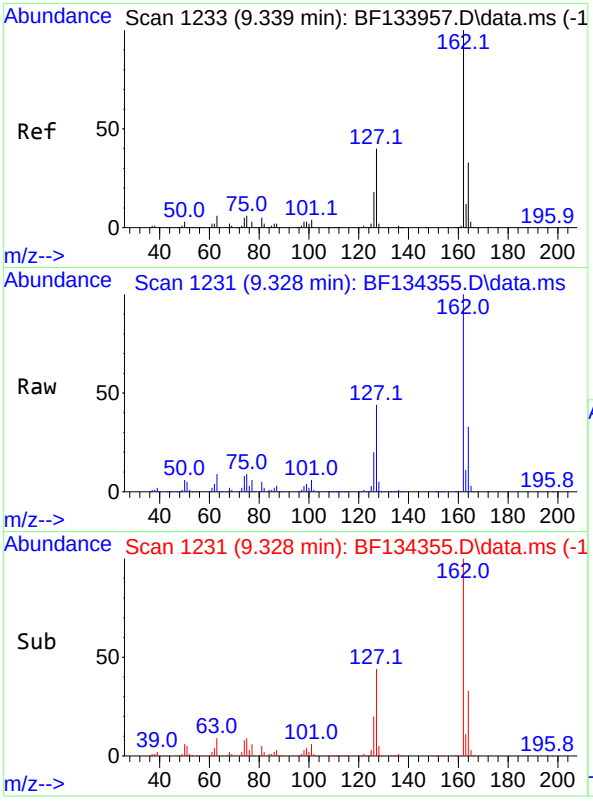


#46
1,1'-Biphenyl
Concen: 40.780 ng
RT: 9.298 min Scan# 1226
Delta R.T. -0.006 min
Lab File: BF134355.D
Acq: 19 Jul 2023 13:01

Tgt Ion:154 Resp: 441280

Ion	Ratio	Lower	Upper
154	100		
153	41.6	19.8	59.8
76	11.3	0.0	32.9

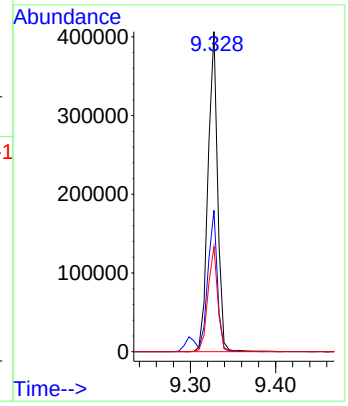




#47
2-Chloronaphthalene
Concen: 40.161 ng
RT: 9.328 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134355.D
Acq: 19 Jul 2023 13:01

Tgt Ion:162 Resp: 31796

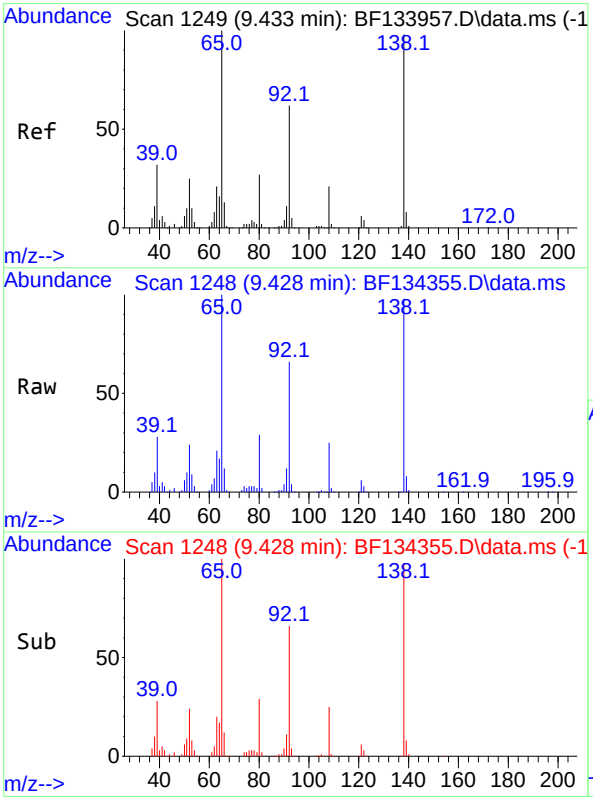
Ion	Ratio	Lower	Upper
162	100		
127	44.2	32.9	49.3
164	32.8	26.1	39.1



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

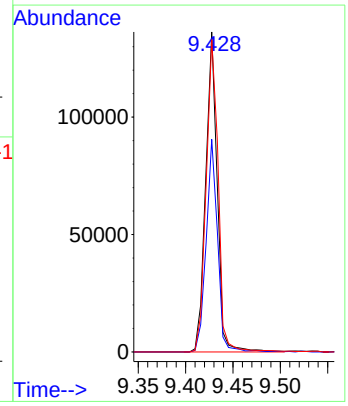
Reviewed By :Yogesh Patel 07/20/2023
Supervised By :mohammad ahmed 07/20/2023

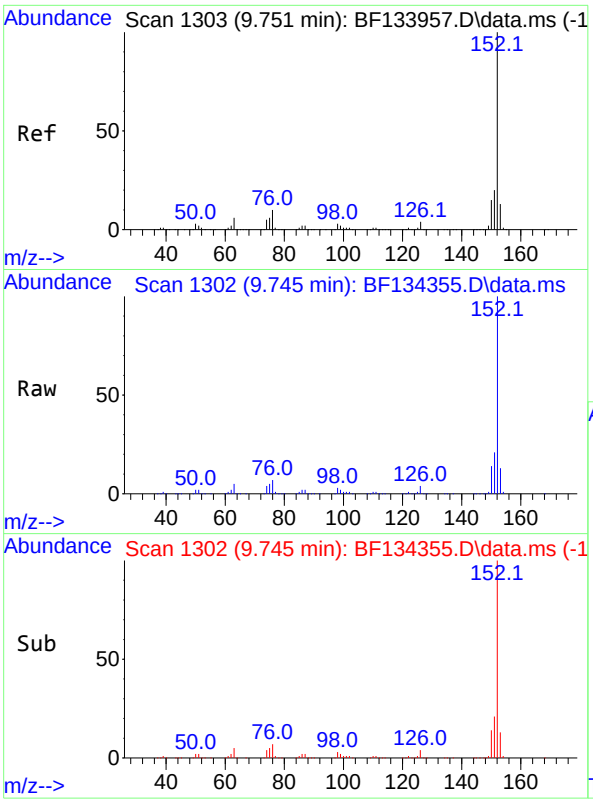


#48
2-Nitroaniline
Concen: 39.970 ng
RT: 9.428 min Scan# 1248
Delta R.T. 0.000 min
Lab File: BF134355.D
Acq: 19 Jul 2023 13:01

Tgt Ion: 65 Resp: 115331

Ion	Ratio	Lower	Upper
65	100		
92	66.4	49.5	74.3
138	97.6	78.0	117.0

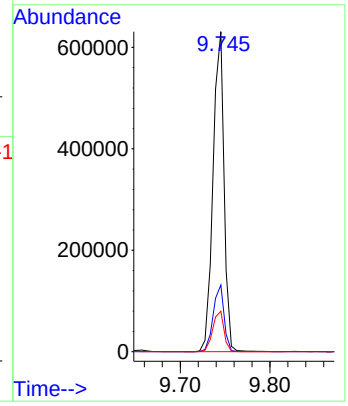




#49
Acenaphthylene
Concen: 39.769 ng
RT: 9.745 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134355.D
Acq: 19 Jul 2023 13:01

Tgt Ion:152 Resp: 53785

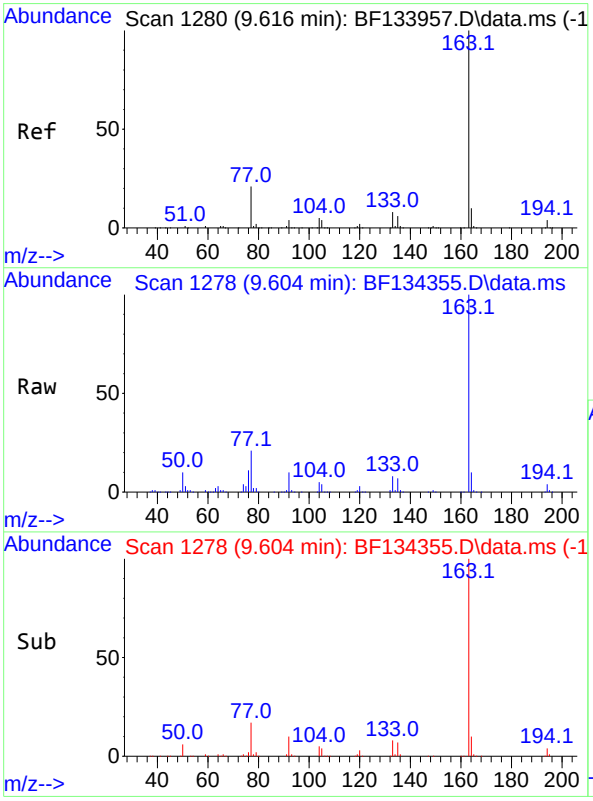
Ion	Ratio	Lower	Upper
152	100		
151	20.9	16.2	24.2
153	12.7	10.8	16.2



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

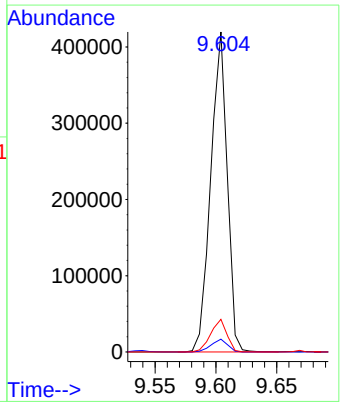
Reviewed By :Yogesh Patel 07/20/2023
Supervised By :mohammad ahmed 07/20/2023

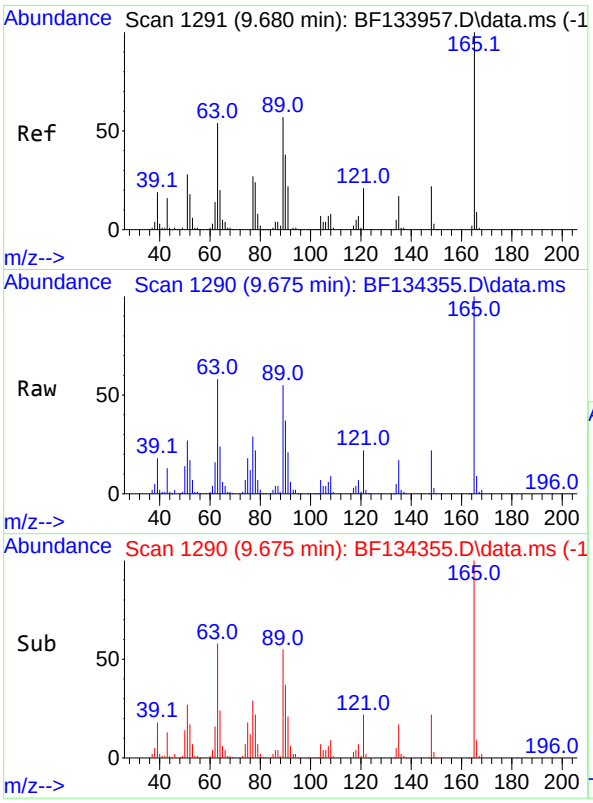


#50
Dimethylphthalate
Concen: 40.249 ng
RT: 9.604 min Scan# 1278
Delta R.T. 0.000 min
Lab File: BF134355.D
Acq: 19 Jul 2023 13:01

Tgt Ion:163 Resp: 394119

Ion	Ratio	Lower	Upper
163	100		
194	4.0	3.0	4.6
164	10.2	8.2	12.2

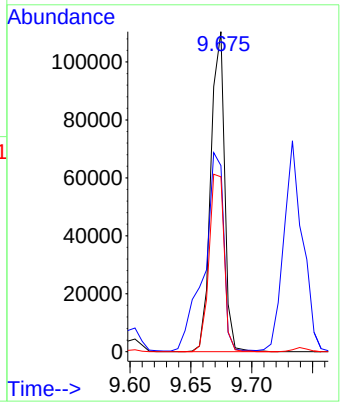




#51
2,6-Dinitrotoluene
Concen: 40.954 ng
RT: 9.675 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134355.D
Acq: 19 Jul 2023 13:01

Tgt Ion:165 Resp: 8637

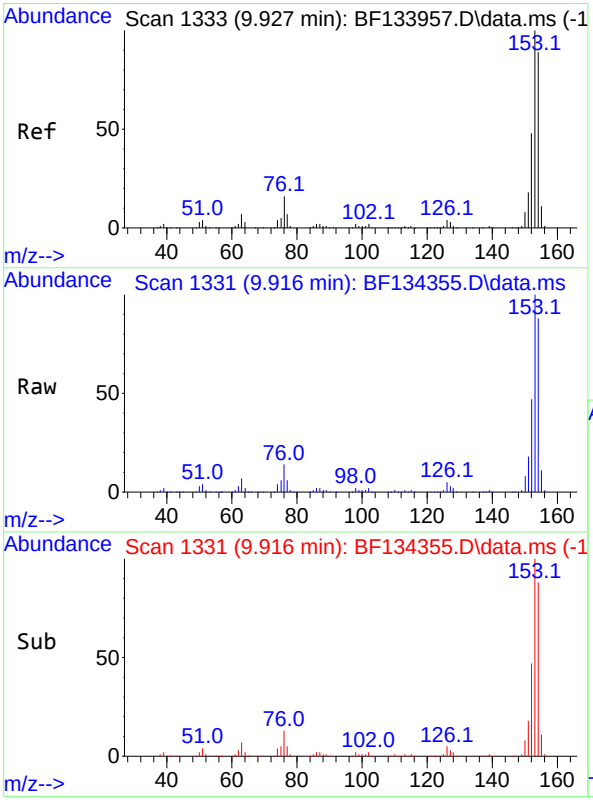
Ion	Ratio	Lower	Upper
165	100		
63	58.1	48.5	72.7
89	54.7	45.5	68.3



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

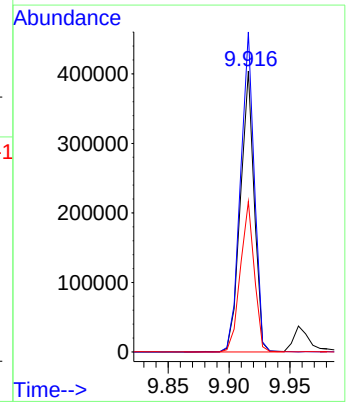
Reviewed By :Yogesh Patel 07/20/2023
Supervised By :mohammad ahmed 07/20/2023

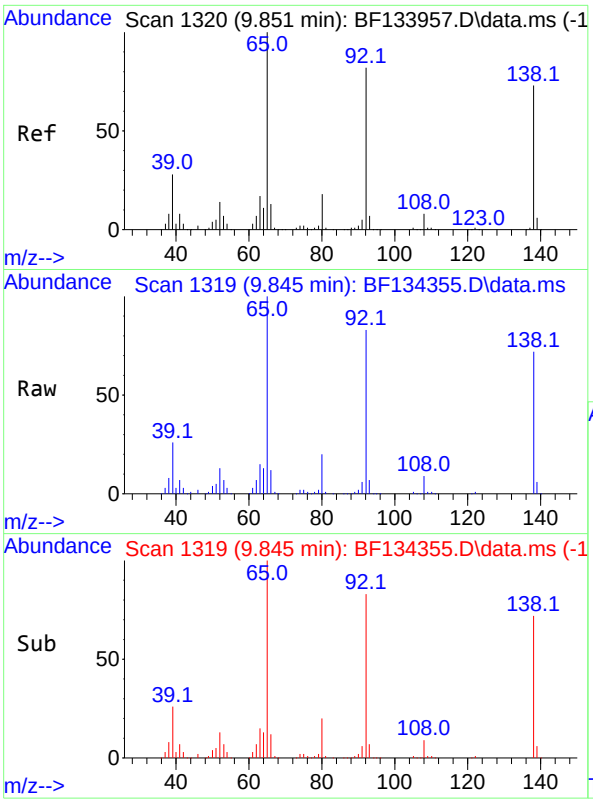


#52
Acenaphthene
Concen: 40.709 ng
RT: 9.916 min Scan# 1331
Delta R.T. 0.000 min
Lab File: BF134355.D
Acq: 19 Jul 2023 13:01

Tgt Ion:154 Resp: 319473

Ion	Ratio	Lower	Upper
154	100		
153	113.9	89.4	134.2
152	53.5	42.8	64.2





#53
3-Nitroaniline
Concen: 37.921 ng
RT: 9.845 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134355.D
Acq: 19 Jul 2023 13:01

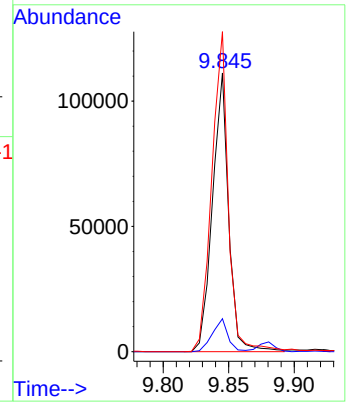
Tgt Ion:138 Resp: 9594

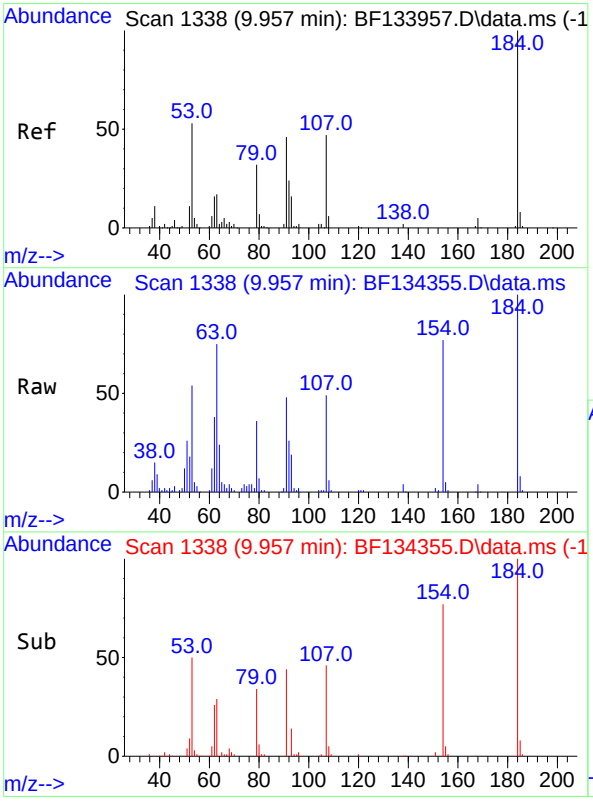
Ion	Ratio	Lower	Upper
138	100		
108	11.8	8.4	12.6
92	114.8	90.1	135.1

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/20/2023
Supervised By :mohammad ahmed 07/20/2023

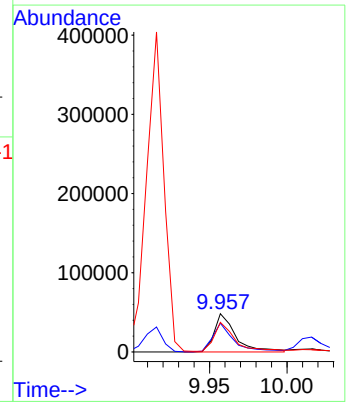


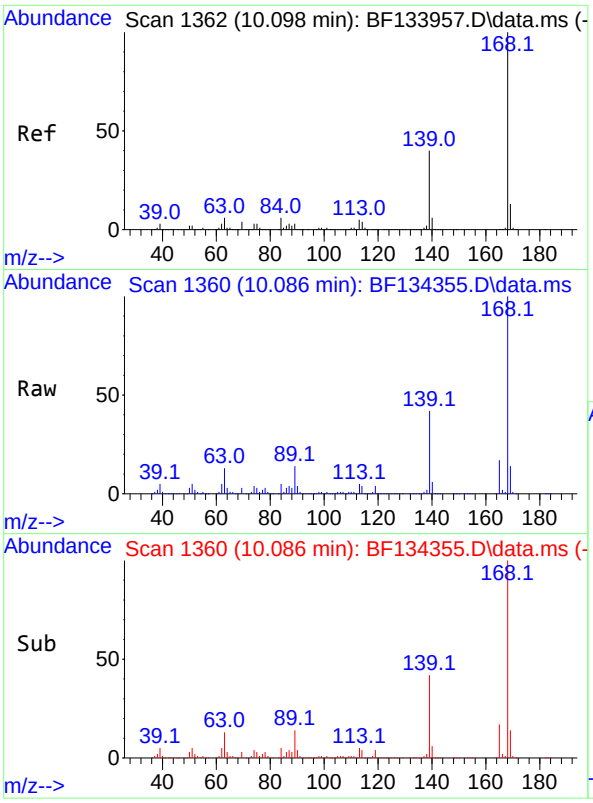


#54
2,4-Dinitrophenol
Concen: 40.287 ng
RT: 9.957 min Scan# 1338
Delta R.T. 0.000 min
Lab File: BF134355.D
Acq: 19 Jul 2023 13:01

Tgt Ion:184 Resp: 46615

Ion	Ratio	Lower	Upper
184	100		
63	75.2	56.9	85.3
154	77.3	55.4	83.0

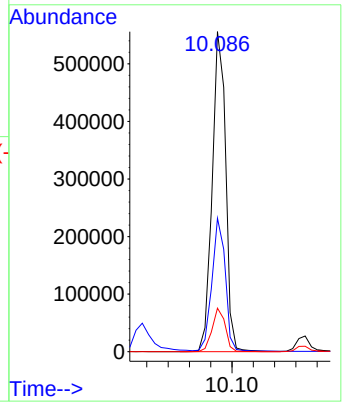




#55
Dibenzofuran
Concen: 39.903 ng
RT: 10.086 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF134355.D
Acq: 19 Jul 2023 13:01

Tgt Ion:168 Resp: 48939

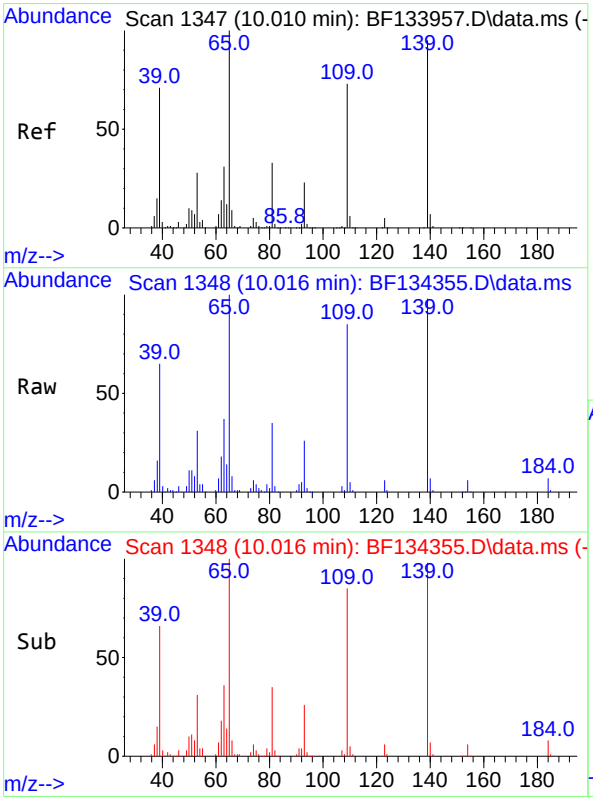
Ion	Ratio	Lower	Upper
168	100		
139	41.7	32.0	48.0
169	13.6	10.6	16.0



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

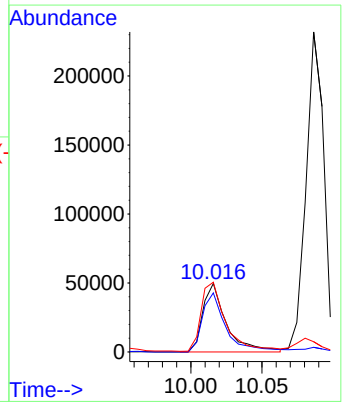
Reviewed By :Yogesh Patel 07/20/2023
Supervised By :mohammad ahmed 07/20/2023

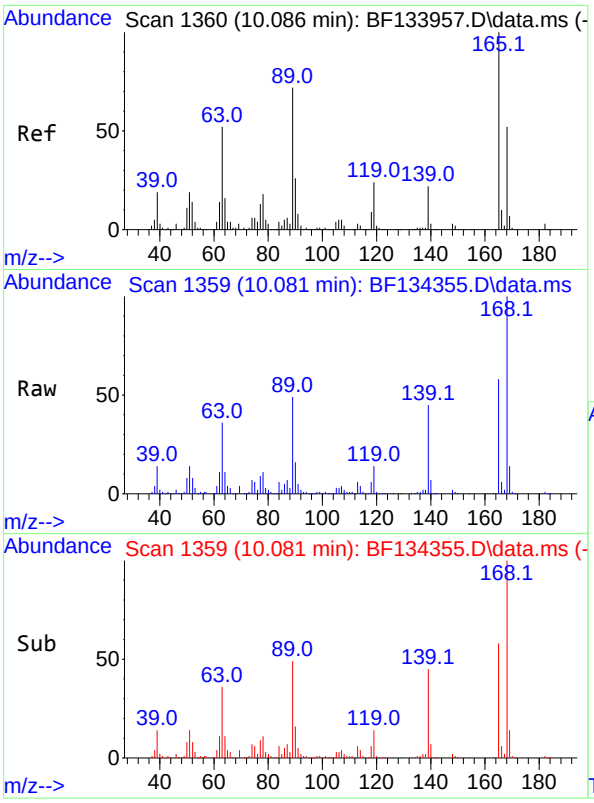


#56
4-Nitrophenol
Concen: 32.385 ng
RT: 10.016 min Scan# 1348
Delta R.T. 0.006 min
Lab File: BF134355.D
Acq: 19 Jul 2023 13:01

Tgt Ion:139 Resp: 57316

Ion	Ratio	Lower	Upper
139	100		
109	86.3	56.8	96.8
65	102.0	86.1	126.1

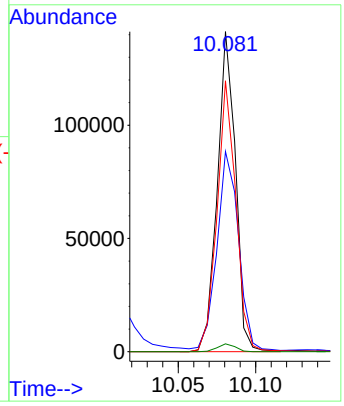




#57
2,4-Dinitrotoluene
Concen: 41.365 ng
RT: 10.081 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134355.D
Acq: 19 Jul 2023 13:01

Tgt Ion:165 Resp: 11521

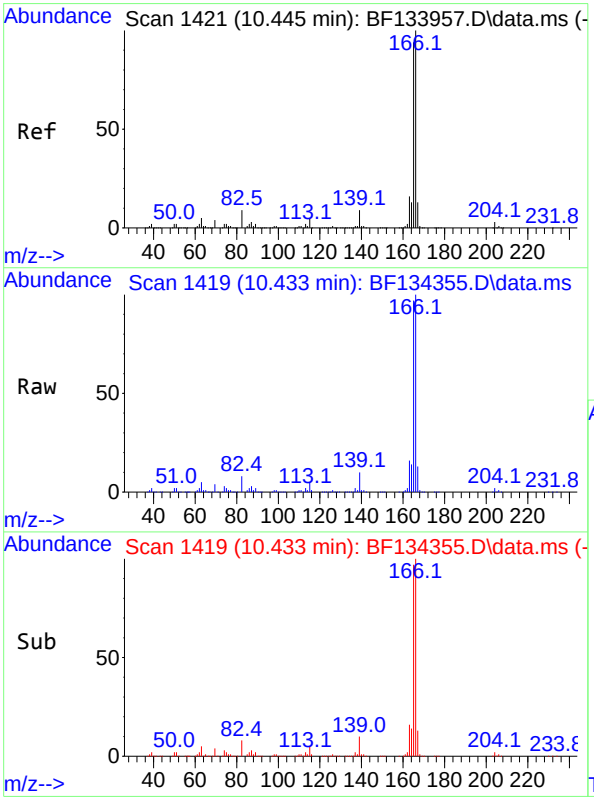
Ion	Ratio	Lower	Upper
165	100		
63	62.6	42.2	63.2
89	84.6	57.4	86.2
182	2.4	2.2	3.4



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

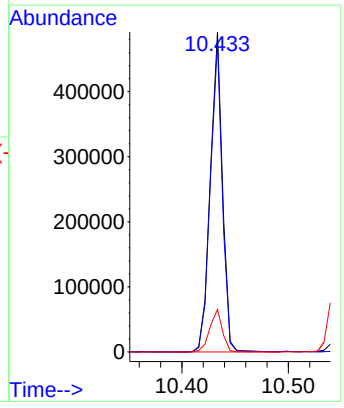
Reviewed By :Yogesh Patel 07/20/2023
Supervised By :mohammad ahmed 07/20/2023

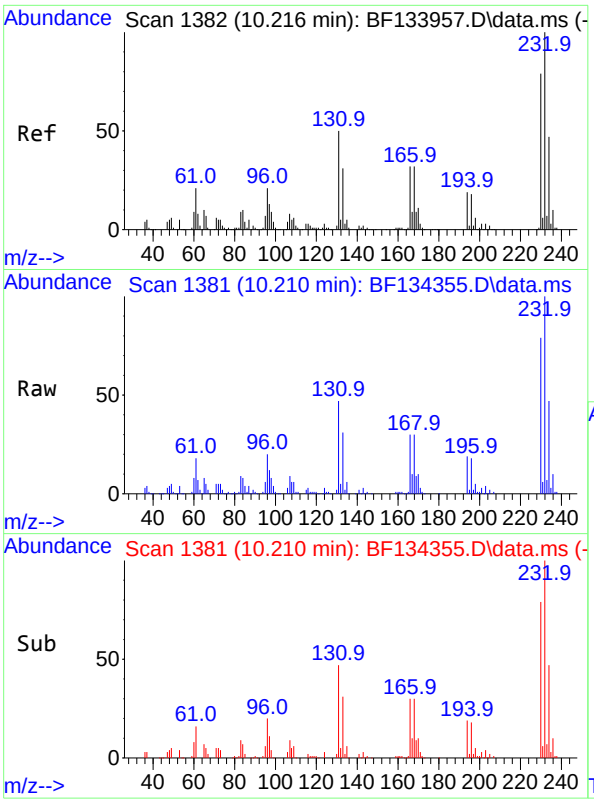


#58
Fluorene
Concen: 40.977 ng
RT: 10.433 min Scan# 1419
Delta R.T. 0.000 min
Lab File: BF134355.D
Acq: 19 Jul 2023 13:01

Tgt Ion:166 Resp: 390999

Ion	Ratio	Lower	Upper
166	100		
165	96.8	75.0	112.4
167	13.3	10.6	15.8

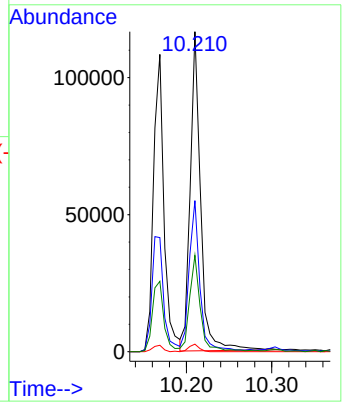




#59
2,3,4,6-Tetrachlorophenol
Concen: 39.266 ng
RT: 10.210 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134355.D
Acq: 19 Jul 2023 13:01

Tgt Ion:232 Resp: 9912

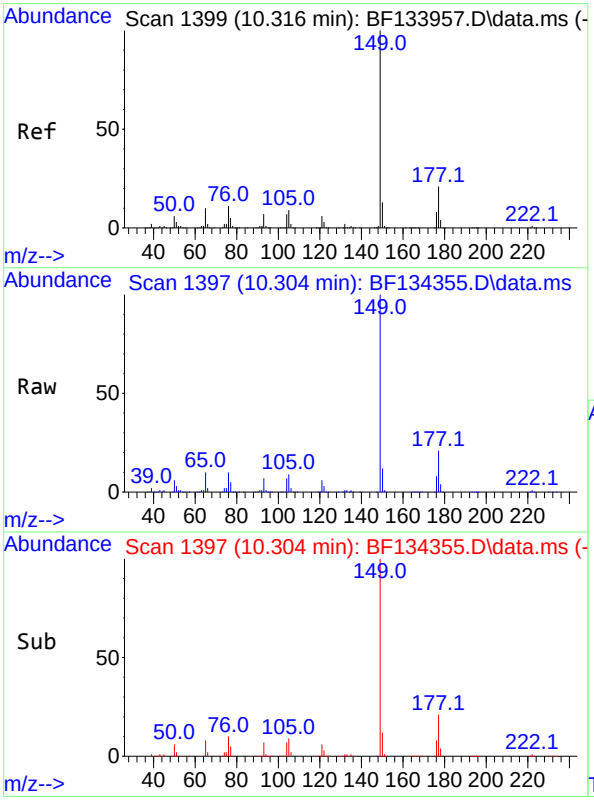
Ion	Ratio	Lower	Upper
232	100		
131	48.9	39.3	58.9
130	2.3	1.8	2.6
166	30.7	25.0	37.6



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

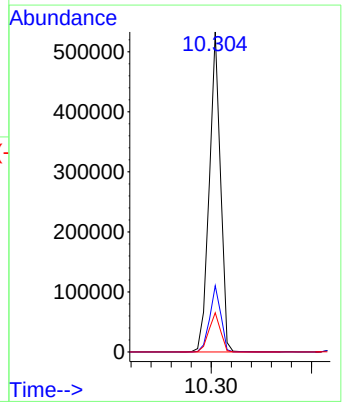
Reviewed By :Yogesh Patel 07/20/2023
Supervised By :mohammad ahmed 07/20/2023

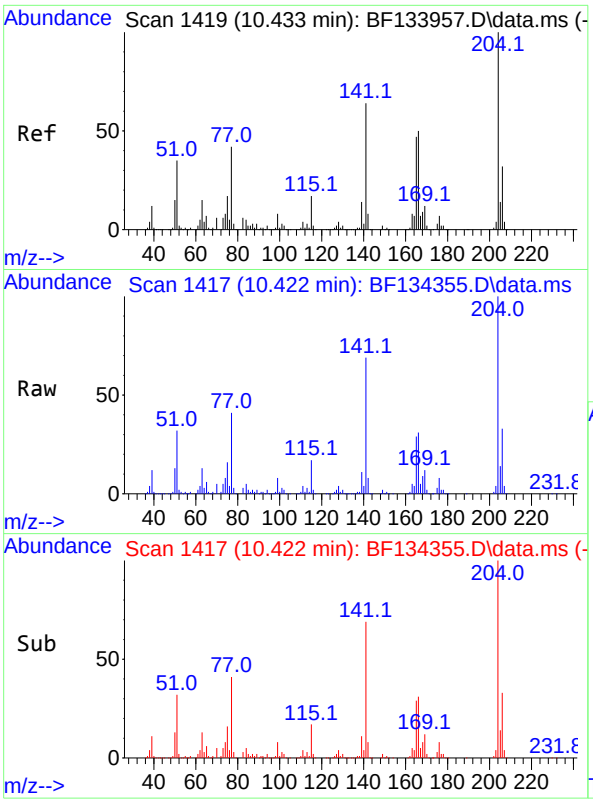


#60
Diethylphthalate
Concen: 40.700 ng
RT: 10.304 min Scan# 1397
Delta R.T. 0.000 min
Lab File: BF134355.D
Acq: 19 Jul 2023 13:01

Tgt Ion:149 Resp: 415212

Ion	Ratio	Lower	Upper
149	100		
177	20.7	17.0	25.6
150	12.2	10.2	15.2

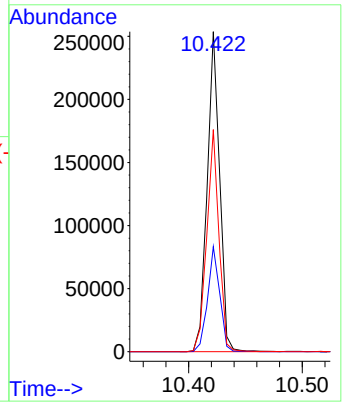




#61
4-Chlorophenyl-phenylether
Concen: 41.901 ng
RT: 10.422 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF134355.D
Acq: 19 Jul 2023 13:01

Tgt Ion:204 Resp: 19267

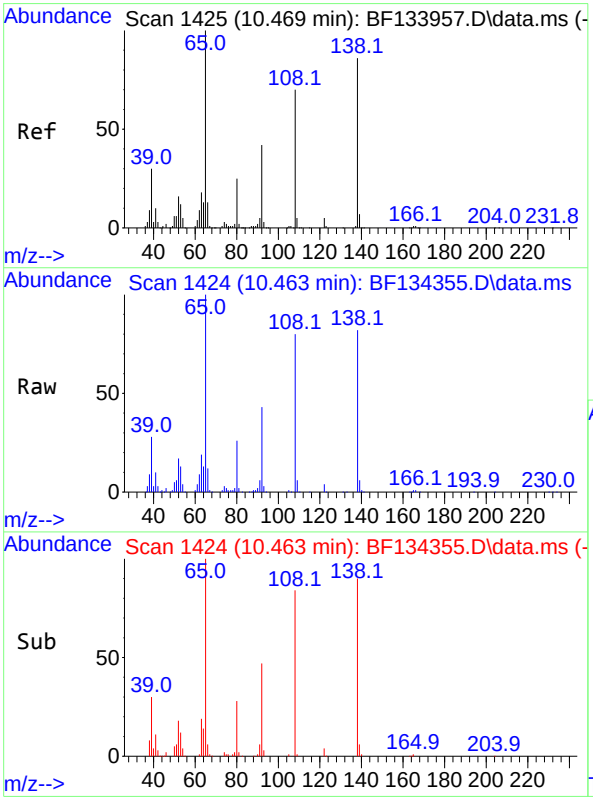
Ion	Ratio	Lower	Upper
204	100		
206	32.8	25.8	38.6
141	69.4	51.5	77.3



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

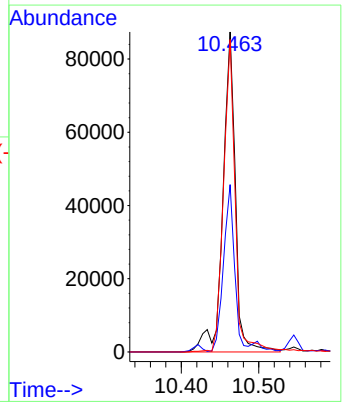
Reviewed By :Yogesh Patel 07/20/2023
Supervised By :mohammad ahmed 07/20/2023

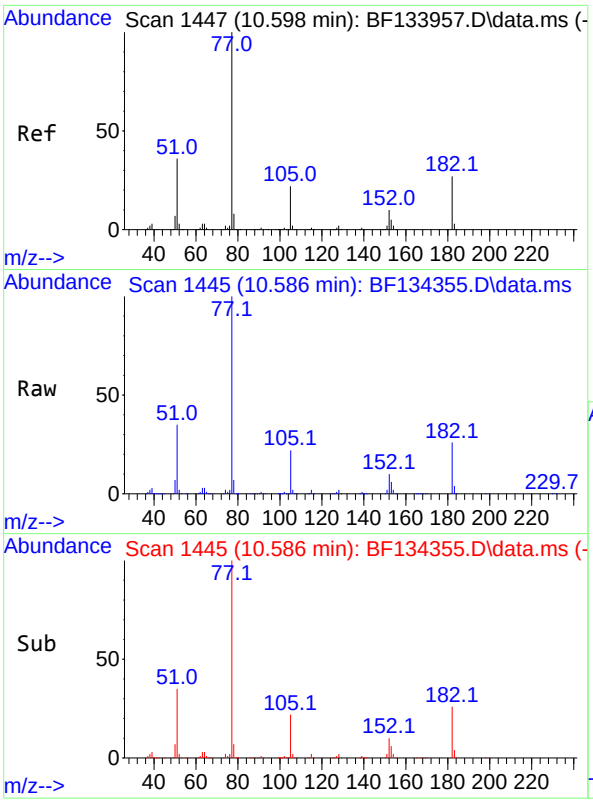


#62
4-Nitroaniline
Concen: 38.385 ng
RT: 10.463 min Scan# 1424
Delta R.T. 0.000 min
Lab File: BF134355.D
Acq: 19 Jul 2023 13:01

Tgt Ion:138 Resp: 97877

Ion	Ratio	Lower	Upper
138	100		
92	52.3	29.7	69.7
108	97.6	62.1	102.1

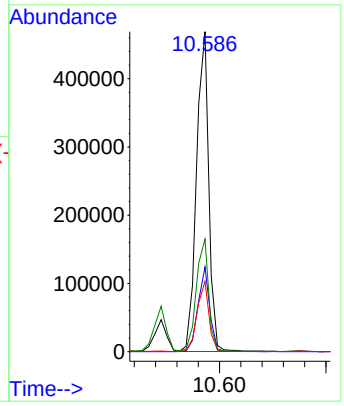




#63
Azobenzene
Concen: 39.014 ng
RT: 10.586 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF134355.D
Acq: 19 Jul 2023 13:01

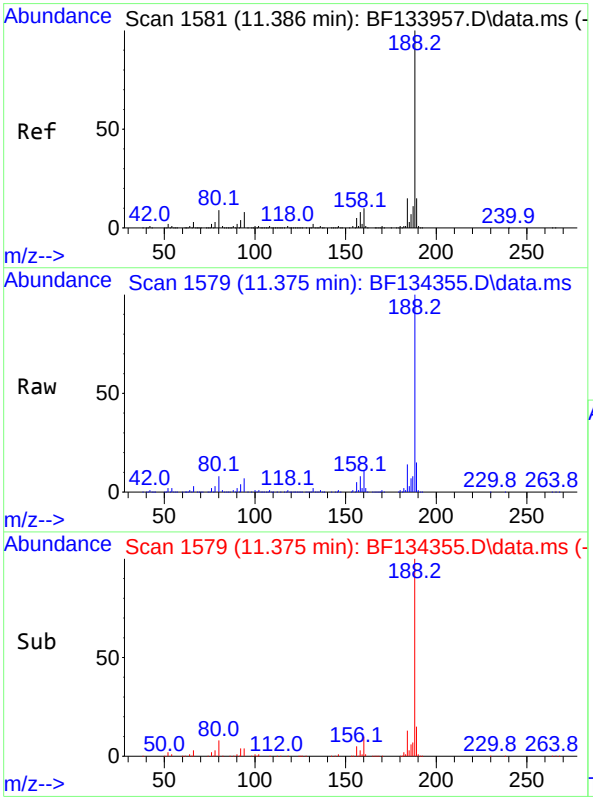
Tgt Ion: 77 Resp: 37648

Ion	Ratio	Lower	Upper
77	100		
182	26.4	6.8	46.8
105	22.0	2.3	42.3
51	35.2	16.2	56.2



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

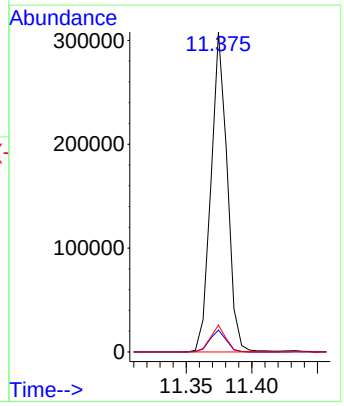
Manual Integrations APPROVED
Reviewed By :Yogesh Patel 07/20/2023
Supervised By :mohammad ahmed 07/20/2023

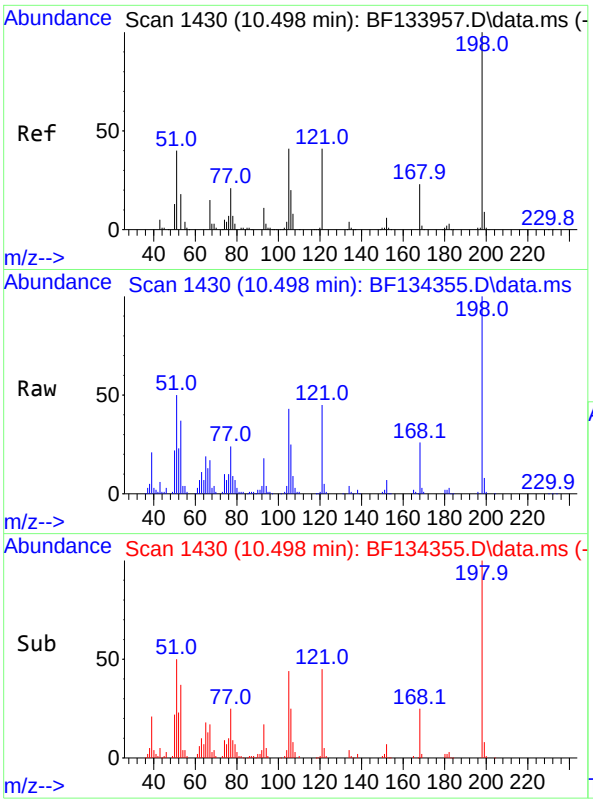


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.375 min Scan# 1579
Delta R.T. 0.000 min
Lab File: BF134355.D
Acq: 19 Jul 2023 13:01

Tgt Ion:188 Resp: 265144

Ion	Ratio	Lower	Upper
188	100		
94	6.8	6.4	9.6
80	8.4	7.3	10.9

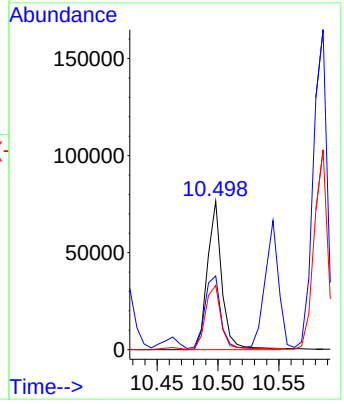




#65
4,6-Dinitro-2-methylphenol
Concen: 43.472 ng
RT: 10.498 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF134355.D
Acq: 19 Jul 2023 13:01

Tgt Ion:198 Resp: 6284

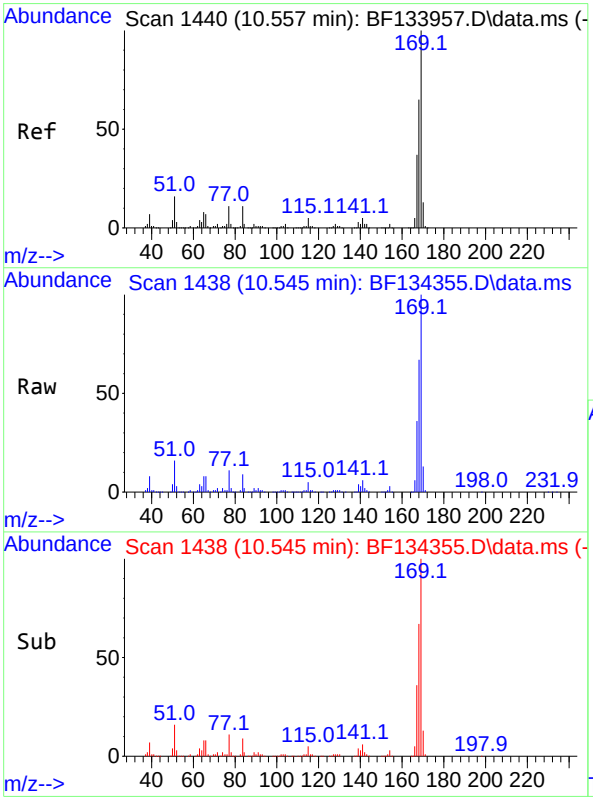
Ion	Ratio	Lower	Upper
198	100		
51	49.7	29.3	69.3
105	43.3	22.4	62.4



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

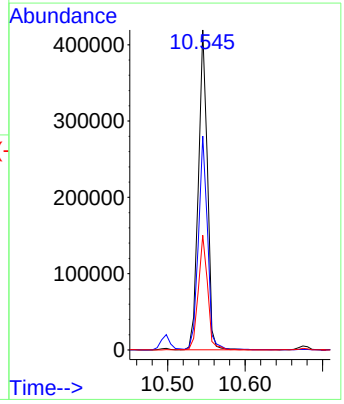
Reviewed By :Yogesh Patel 07/20/2023
Supervised By :mohammad ahmed 07/20/2023

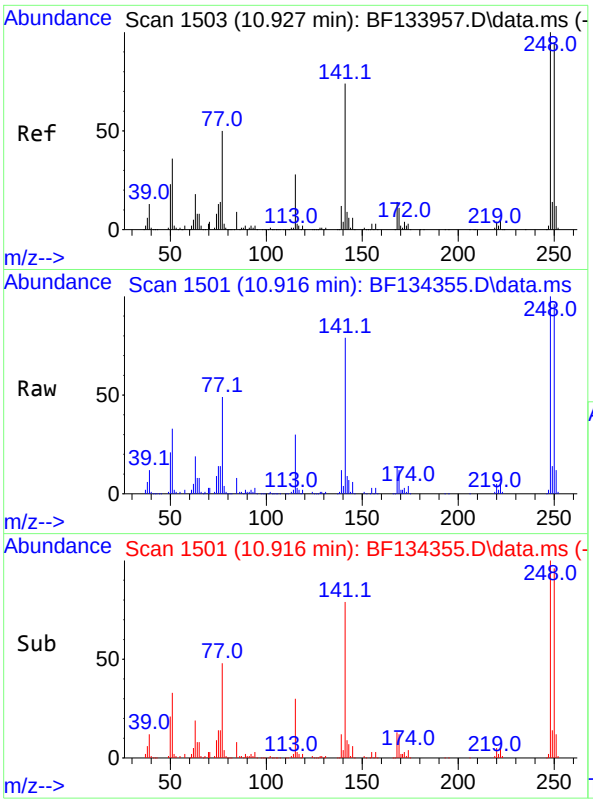


#66
n-Nitrosodiphenylamine
Concen: 40.149 ng
RT: 10.545 min Scan# 1438
Delta R.T. 0.000 min
Lab File: BF134355.D
Acq: 19 Jul 2023 13:01

Tgt Ion:169 Resp: 340118

Ion	Ratio	Lower	Upper
169	100		
168	66.8	52.3	78.5
167	35.9	29.4	44.0

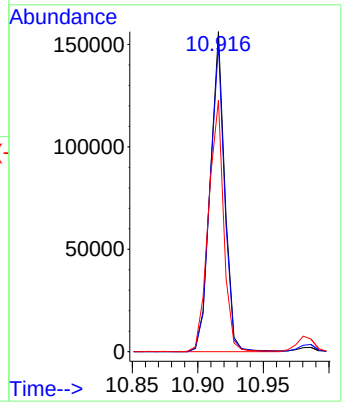




#67
4-Bromophenyl-phenylether
Concen: 42.876 ng
RT: 10.916 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134355.D
Acq: 19 Jul 2023 13:01

Tgt Ion:248 Resp: 12083

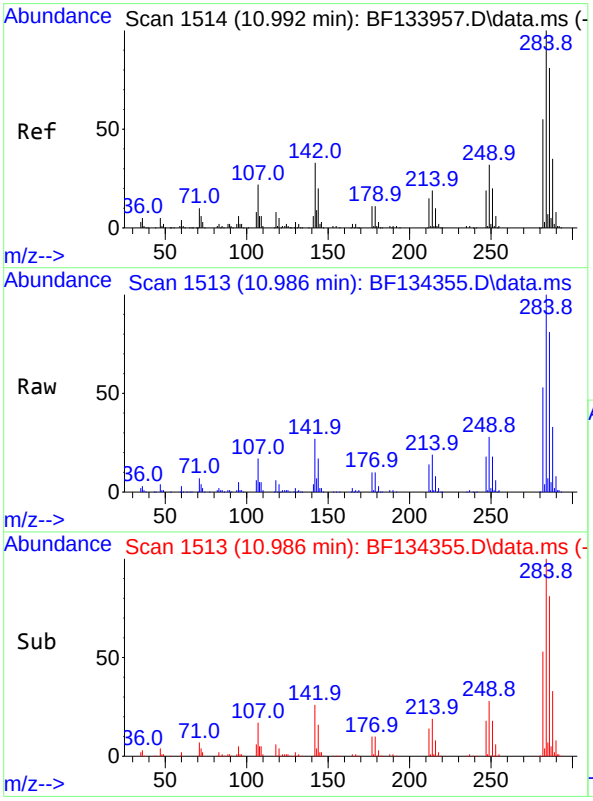
Ion	Ratio	Lower	Upper
248	100		
250	96.3	76.2	114.4
141	78.6	59.0	88.4



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

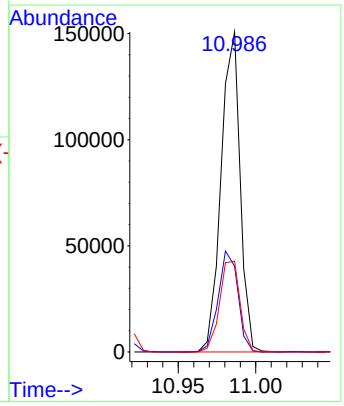
Reviewed By :Yogesh Patel 07/20/2023
Supervised By :mohammad ahmed 07/20/2023

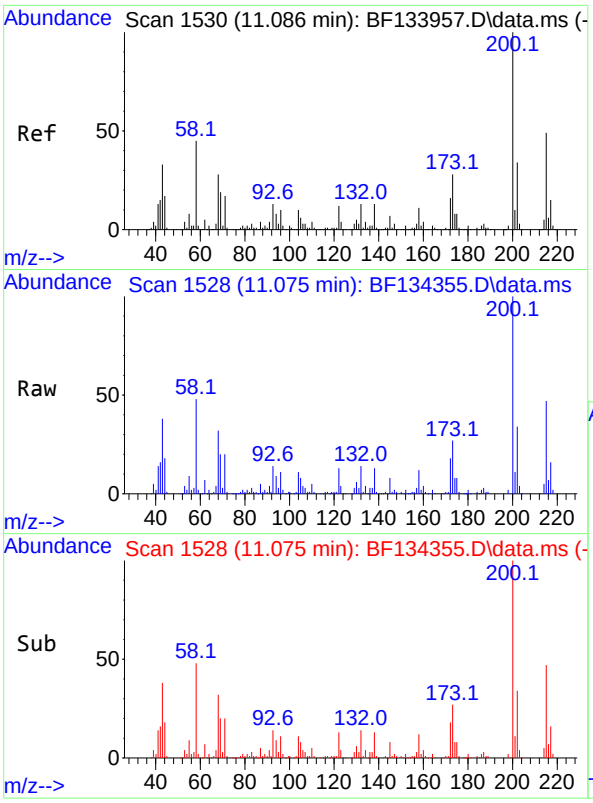


#68
Hexachlorobenzene
Concen: 43.048 ng
RT: 10.986 min Scan# 1513
Delta R.T. 0.000 min
Lab File: BF134355.D
Acq: 19 Jul 2023 13:01

Tgt Ion:284 Resp: 128810

Ion	Ratio	Lower	Upper
284	100		
142	26.8	26.6	40.0
249	28.3	25.5	38.3

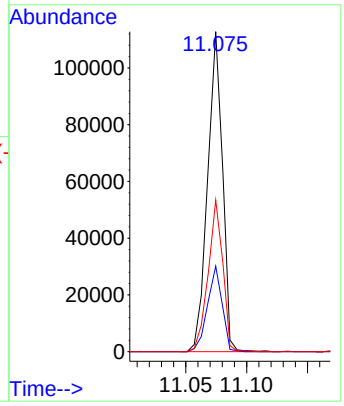




#69
Atrazine
Concen: 40.861 ng
RT: 11.075 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134355.D
Acq: 19 Jul 2023 13:01

Tgt Ion:200 Resp: 9574

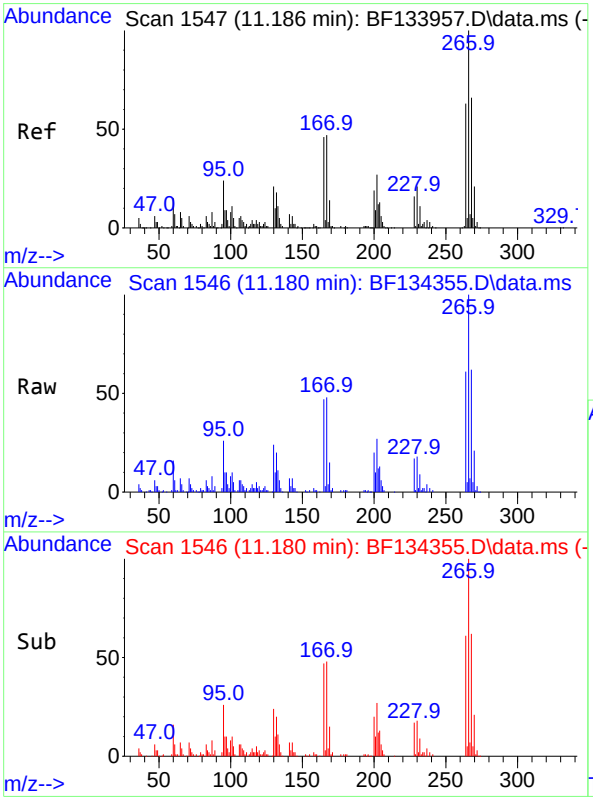
Ion	Ratio	Lower	Upper
200	100		
173	26.7	8.0	48.0
215	47.4	29.3	69.3



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

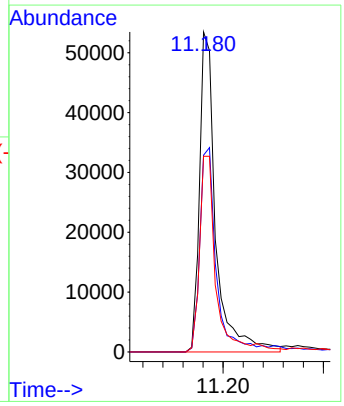
Reviewed By :Yogesh Patel 07/20/2023
Supervised By :mohammad ahmed 07/20/2023

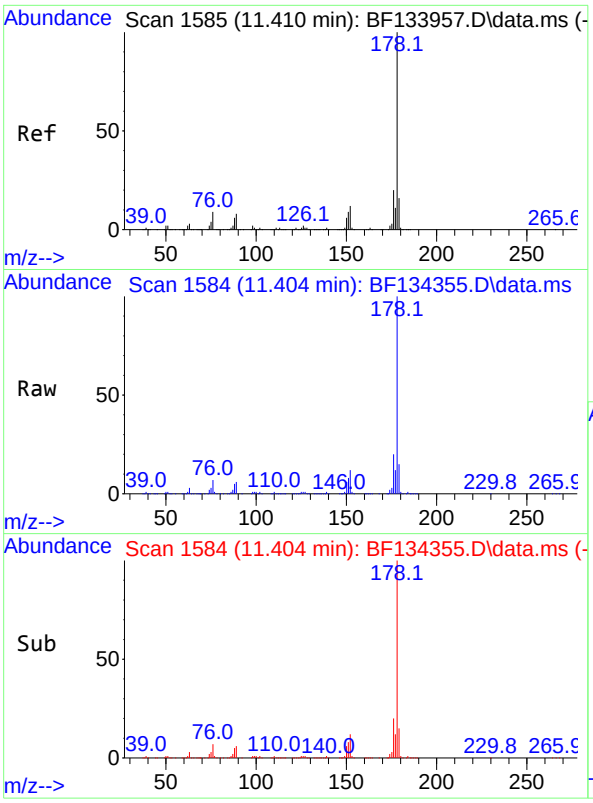


#70
Pentachlorophenol
Concen: 33.700 ng
RT: 11.180 min Scan# 1546
Delta R.T. 0.000 min
Lab File: BF134355.D
Acq: 19 Jul 2023 13:01

Tgt Ion:266 Resp: 60293

Ion	Ratio	Lower	Upper
266	100		
268	61.5	52.6	79.0
264	61.1	50.6	76.0

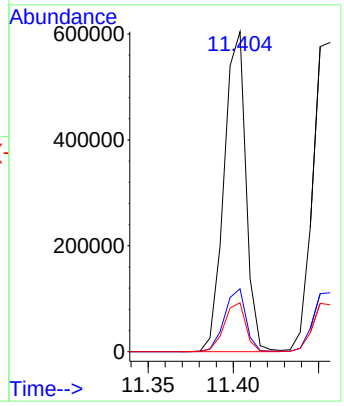




#71
Phenanthrene
Concen: 40.386 ng
RT: 11.404 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134355.D
Acq: 19 Jul 2023 13:01

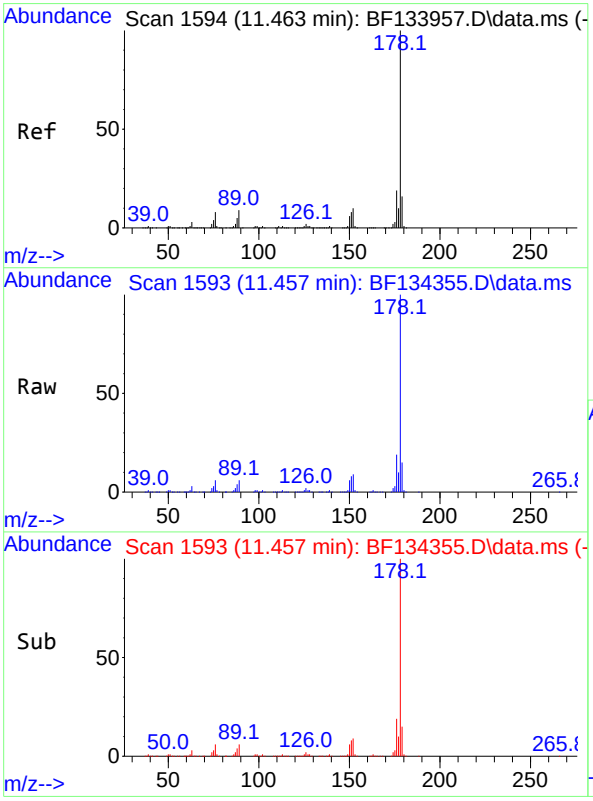
Tgt Ion:178 Resp: 53905

Ion	Ratio	Lower	Upper
178	100		
176	19.6	16.0	24.0
179	15.3	12.4	18.6



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

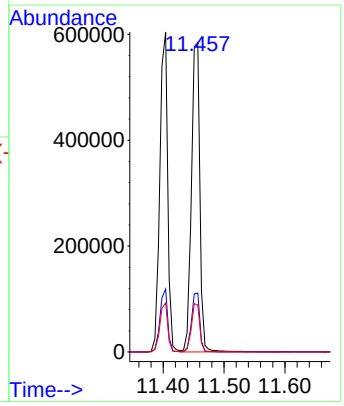
Manual Integrations APPROVED
Reviewed By :Yogesh Patel 07/20/2023
Supervised By :mohammad ahmed 07/20/2023

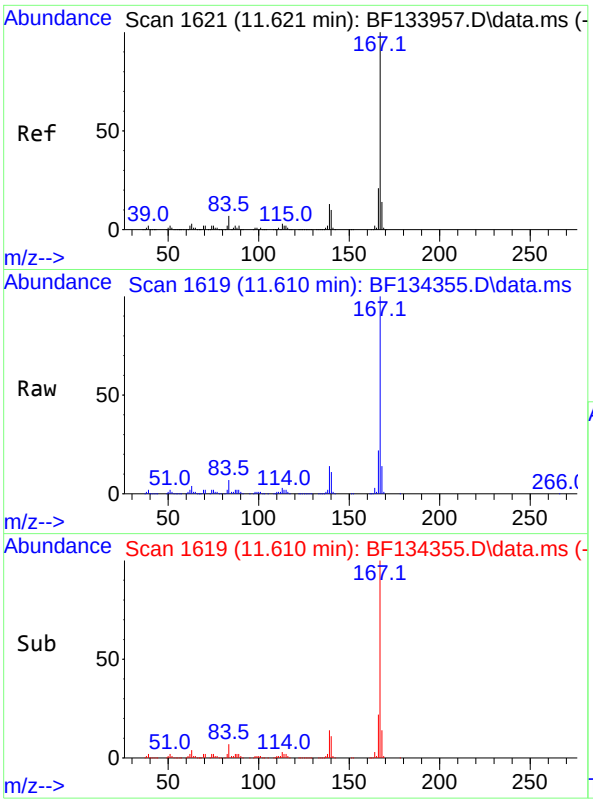


#72
Anthracene
Concen: 40.290 ng
RT: 11.457 min Scan# 1593
Delta R.T. 0.000 min
Lab File: BF134355.D
Acq: 19 Jul 2023 13:01

Tgt Ion:178 Resp: 559349

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.3	22.9
179	15.1	12.4	18.6

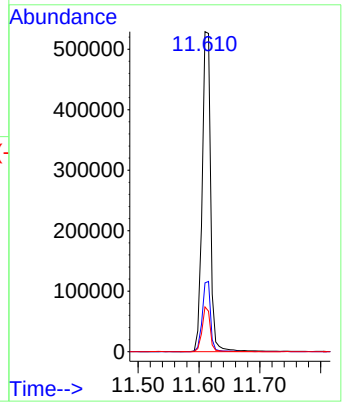




#73
Carbazole
Concen: 40.284 ng
RT: 11.610 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF134355.D
Acq: 19 Jul 2023 13:01

Tgt Ion:167 Resp: 511909

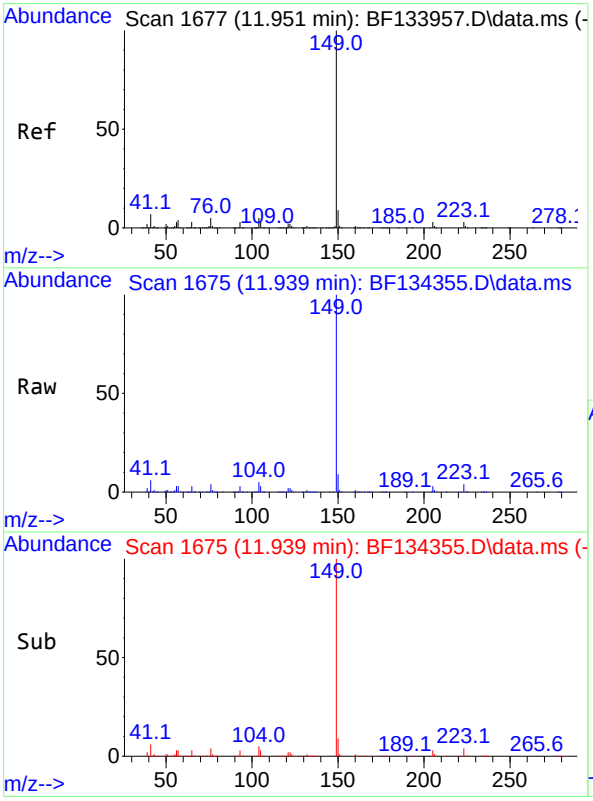
Ion	Ratio	Lower	Upper
167	100		
166	21.5	17.0	25.6
139	14.0	10.4	15.6



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

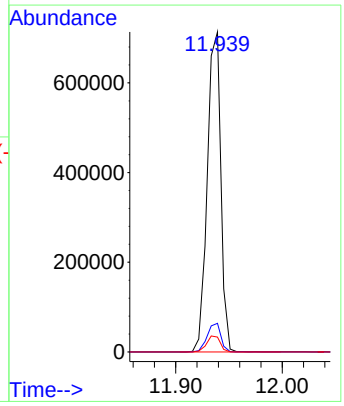
Reviewed By :Yogesh Patel 07/20/2023
Supervised By :mohammad ahmed 07/20/2023

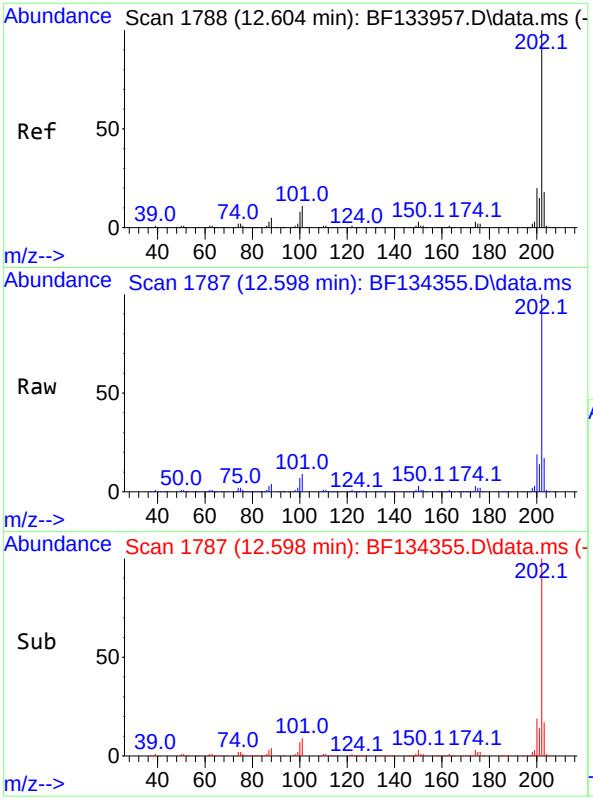


#74
Di-n-butylphthalate
Concen: 41.848 ng
RT: 11.939 min Scan# 1675
Delta R.T. 0.000 min
Lab File: BF134355.D
Acq: 19 Jul 2023 13:01

Tgt Ion:149 Resp: 632388

Ion	Ratio	Lower	Upper
149	100		
150	8.9	7.1	10.7
104	4.6	4.0	6.0





#75
Fluoranthene
Concen: 41.885 ng
RT: 12.598 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134355.D
Acq: 19 Jul 2023 13:01

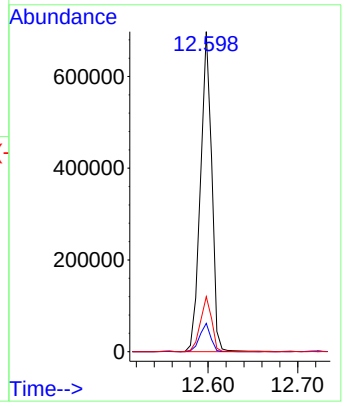
Tgt Ion:202 Resp: 60440

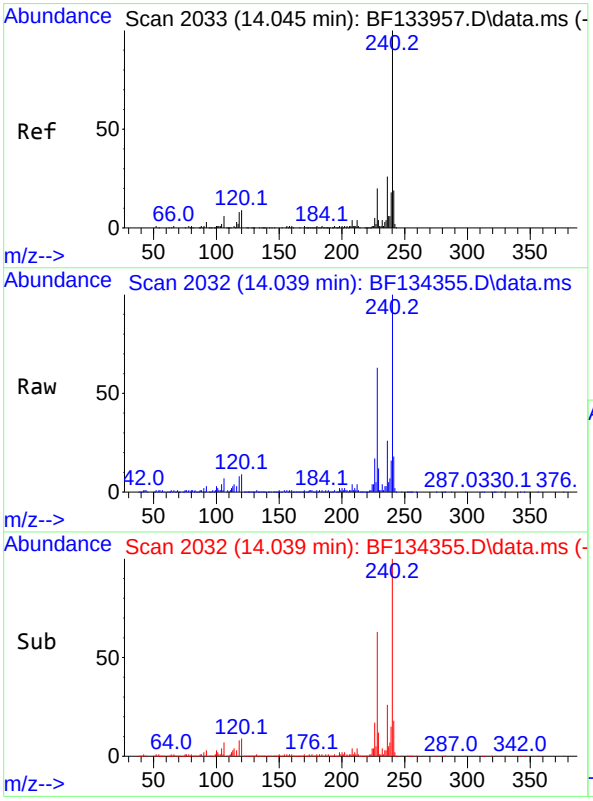
Ion	Ratio	Lower	Upper
202	100		
101	8.8	0.0	31.0
203	17.2	0.0	37.6

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/20/2023
Supervised By :mohammad ahmed 07/20/2023

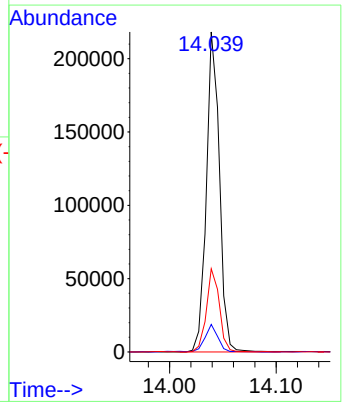


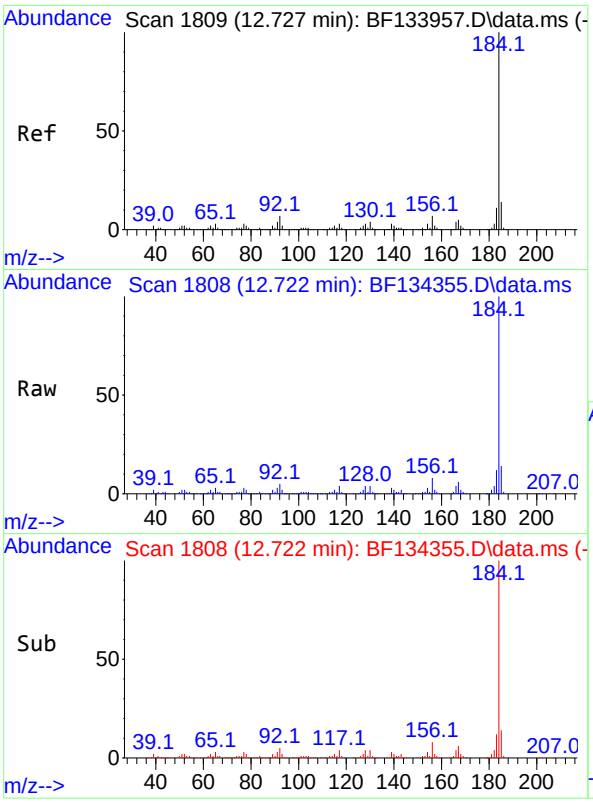


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.039 min Scan# 2032
Delta R.T. 0.000 min
Lab File: BF134355.D
Acq: 19 Jul 2023 13:01

Tgt Ion:240 Resp: 186886

Ion	Ratio	Lower	Upper
240	100		
120	8.6	7.4	11.0
236	26.0	21.0	31.6

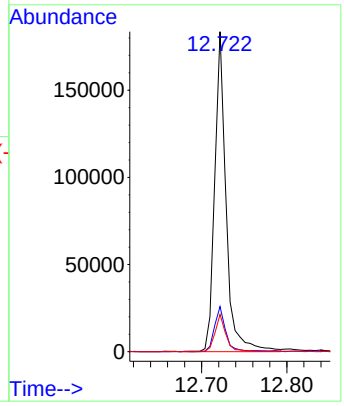




#77
Benzidine
Concen: 38.481 ng
RT: 12.722 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF134355.D
Acq: 19 Jul 2023 13:01

Tgt Ion:184 Resp: 17112

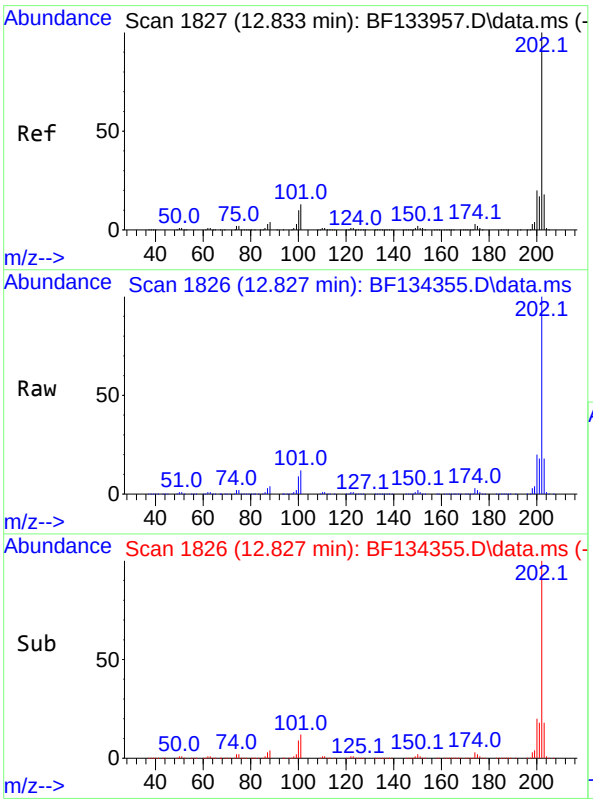
Ion	Ratio	Lower	Upper
184	100		
185	14.1	11.6	17.4
183	11.6	8.8	13.2



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

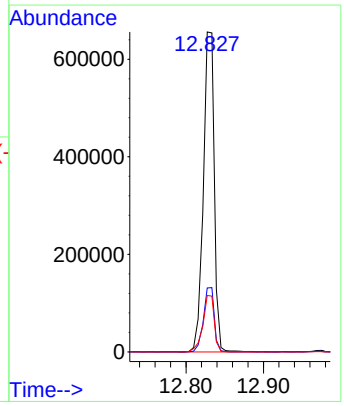
Reviewed By :Yogesh Patel 07/20/2023
Supervised By :mohammad ahmed 07/20/2023

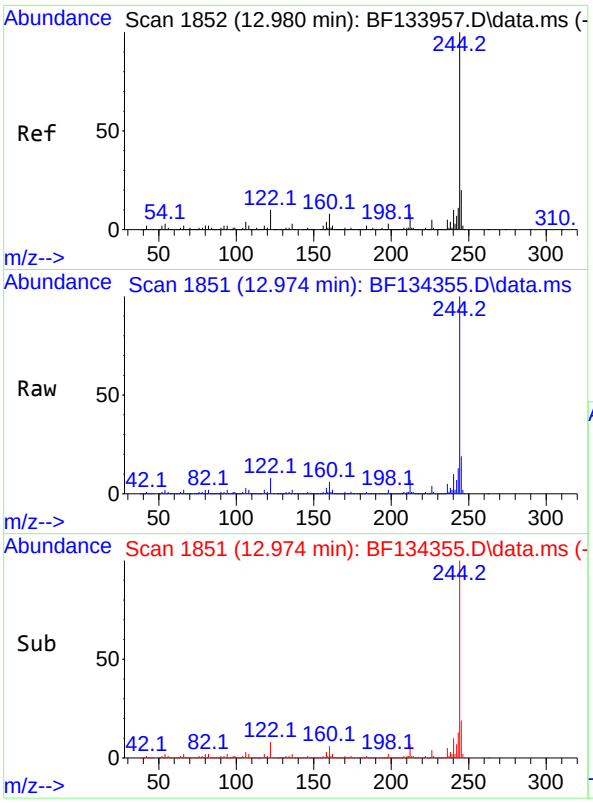


#78
Pyrene
Concen: 36.954 ng
RT: 12.827 min Scan# 1826
Delta R.T. -0.006 min
Lab File: BF134355.D
Acq: 19 Jul 2023 13:01

Tgt Ion:202 Resp: 642712

Ion	Ratio	Lower	Upper
202	100		
200	20.0	16.1	24.1
203	17.6	14.3	21.5





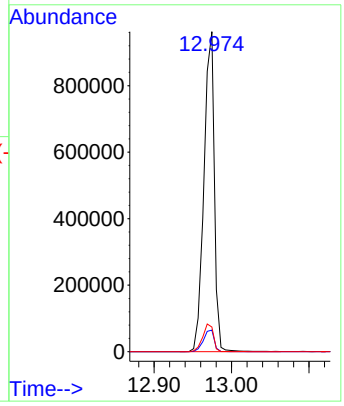
#79
Terphenyl-d14
Concen: 77.204 ng
RT: 12.974 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134355.D
Acq: 19 Jul 2023 13:01

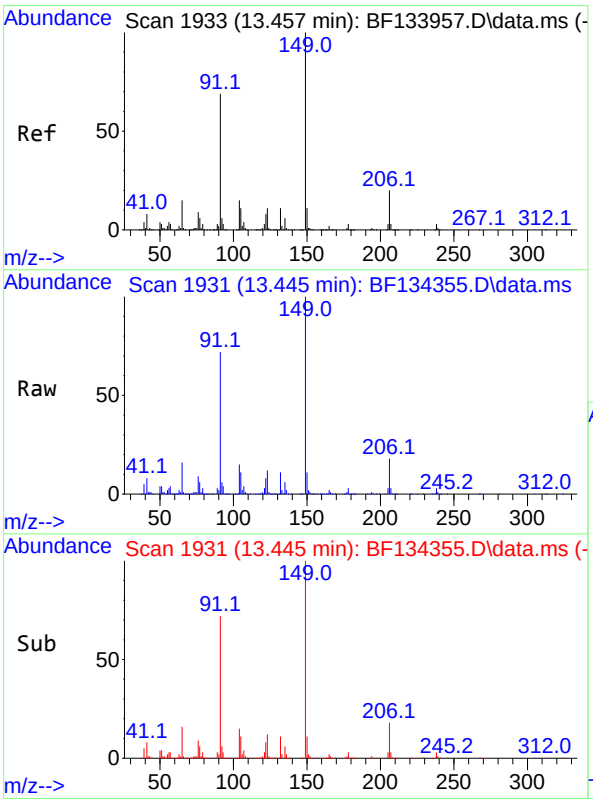
Tgt Ion:244 Resp: 89648

Ion	Ratio	Lower	Upper
244	100		
212	6.8	6.0	9.0
122	7.7	8.3	12.5

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 07/20/2023
Supervised By :mohammad ahmed 07/20/2023

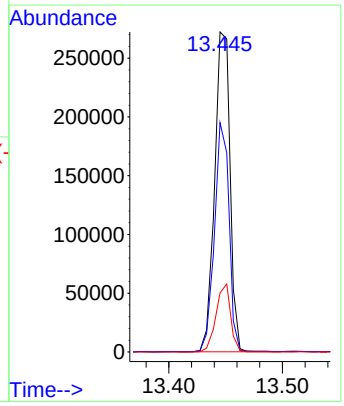


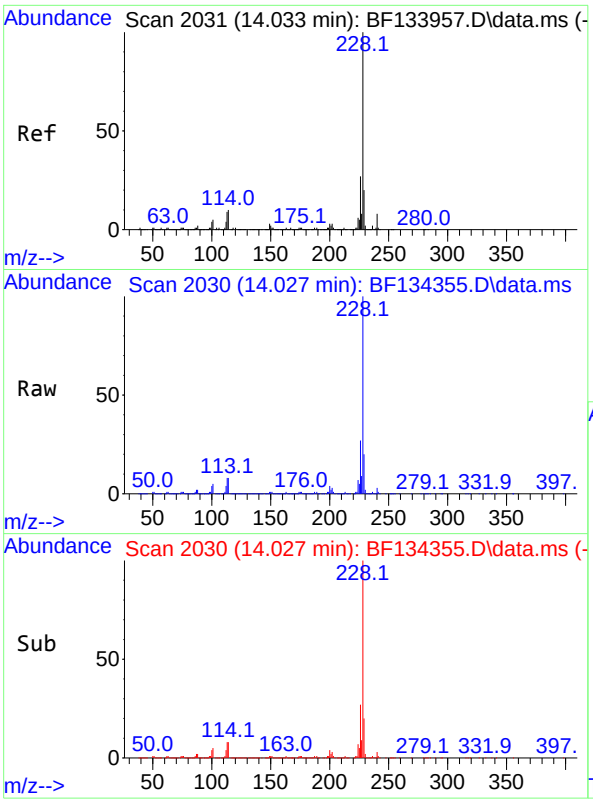


#80
Butylbenzylphthalate
Concen: 39.421 ng
RT: 13.445 min Scan# 1931
Delta R.T. -0.006 min
Lab File: BF134355.D
Acq: 19 Jul 2023 13:01

Tgt Ion:149 Resp: 257138

Ion	Ratio	Lower	Upper
149	100		
91	71.7	55.1	82.7
206	18.5	15.7	23.5

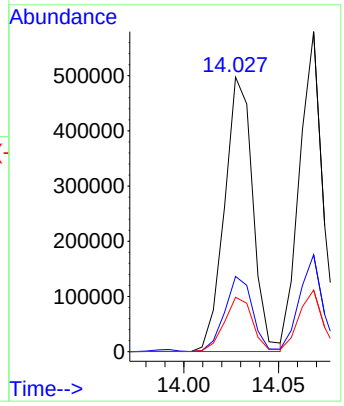




#81
Benzo(a)anthracene
Concen: 39.737 ng
RT: 14.027 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF134355.D
Acq: 19 Jul 2023 13:01

Tgt Ion:228 Resp: 51503

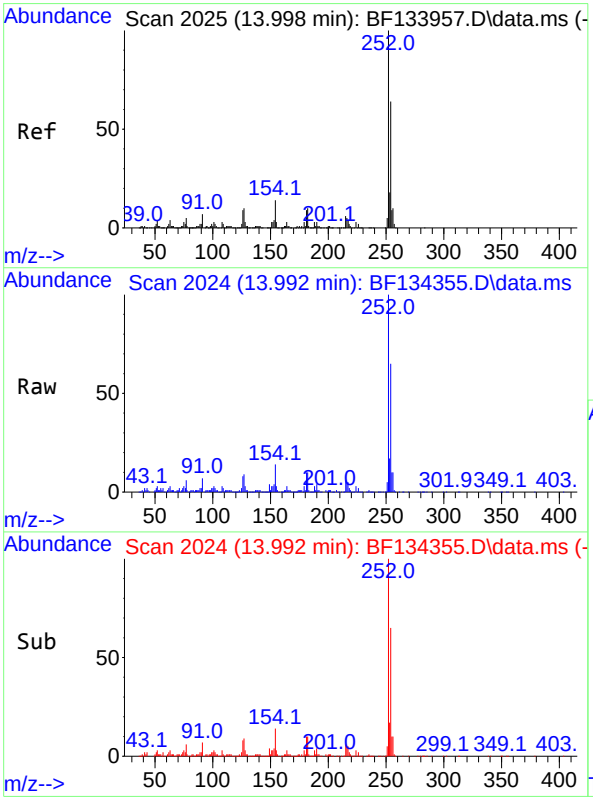
Ion	Ratio	Lower	Upper
228	100		
226	27.4	22.0	33.0
229	19.8	16.3	24.5



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

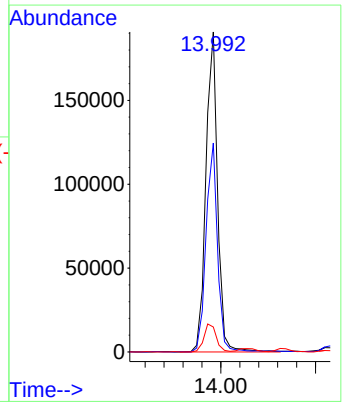
Reviewed By :Yogesh Patel 07/20/2023
Supervised By :mohammad ahmed 07/20/2023

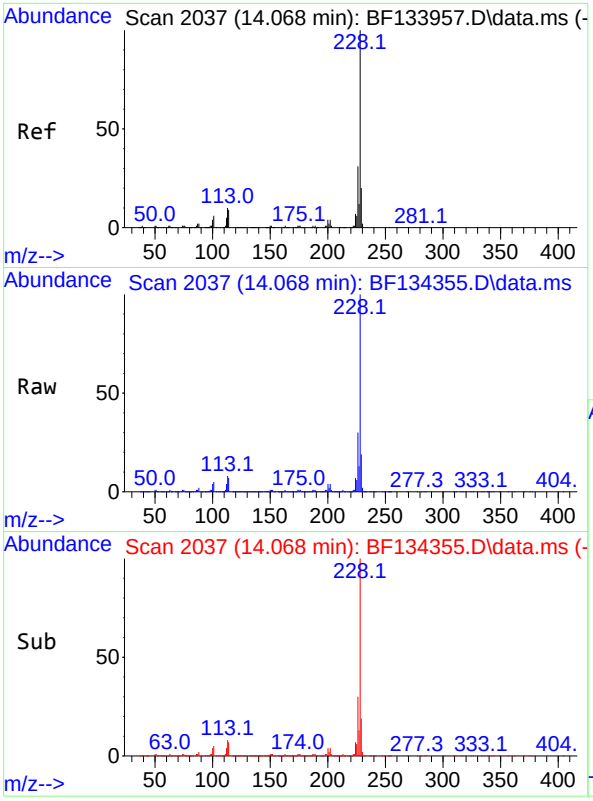


#82
3,3'-Dichlorobenzidine
Concen: 39.756 ng
RT: 13.992 min Scan# 2024
Delta R.T. 0.000 min
Lab File: BF134355.D
Acq: 19 Jul 2023 13:01

Tgt Ion:252 Resp: 163249

Ion	Ratio	Lower	Upper
252	100		
254	65.3	51.4	77.0
126	7.8	7.4	11.2

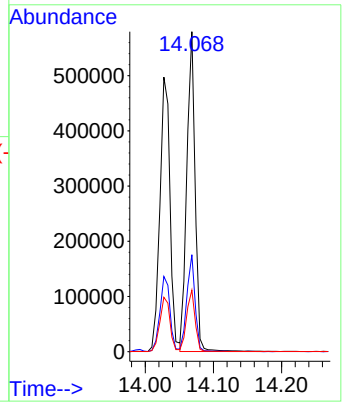




#83
Chrysene
Concen: 38.966 ng
RT: 14.068 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF134355.D
Acq: 19 Jul 2023 13:01

Tgt Ion:228 Resp: 48915

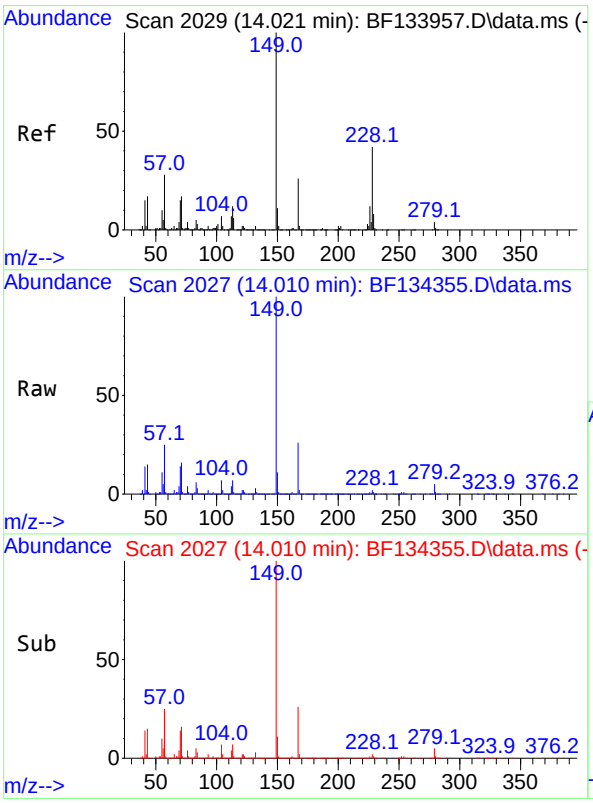
Ion	Ratio	Lower	Upper
228	100		
226	30.3	24.4	36.6
229	19.2	16.1	24.1



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

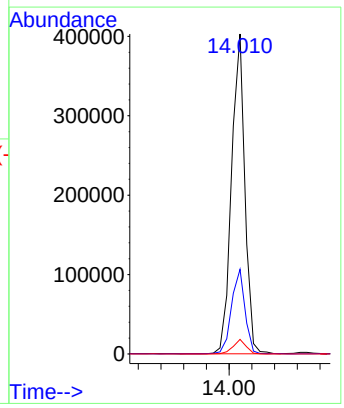
Reviewed By :Yogesh Patel 07/20/2023
Supervised By :mohammad ahmed 07/20/2023

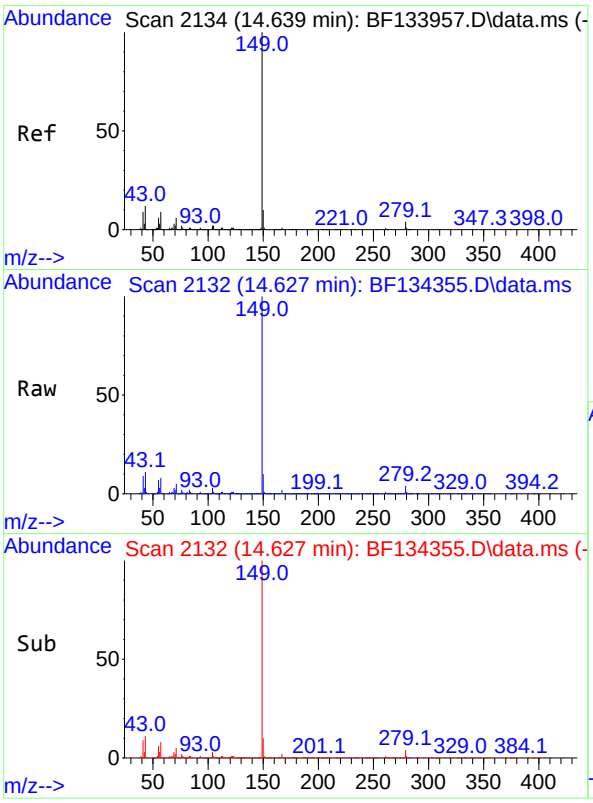


#84
Bis(2-ethylhexyl)phthalate
Concen: 43.689 ng
RT: 14.010 min Scan# 2027
Delta R.T. -0.006 min
Lab File: BF134355.D
Acq: 19 Jul 2023 13:01

Tgt Ion:149 Resp: 327459

Ion	Ratio	Lower	Upper
149	100		
167	26.5	21.0	31.4
279	4.5	3.3	4.9

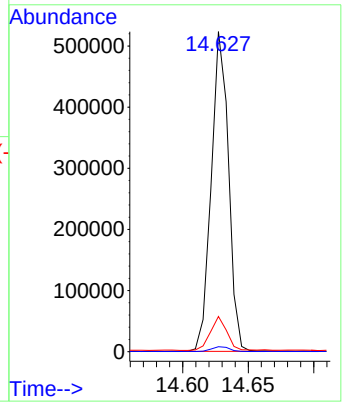




#85
Di-n-octyl phthalate
Concen: 43.496 ng
RT: 14.627 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF134355.D
Acq: 19 Jul 2023 13:01

Tgt Ion:149 Resp: 47902

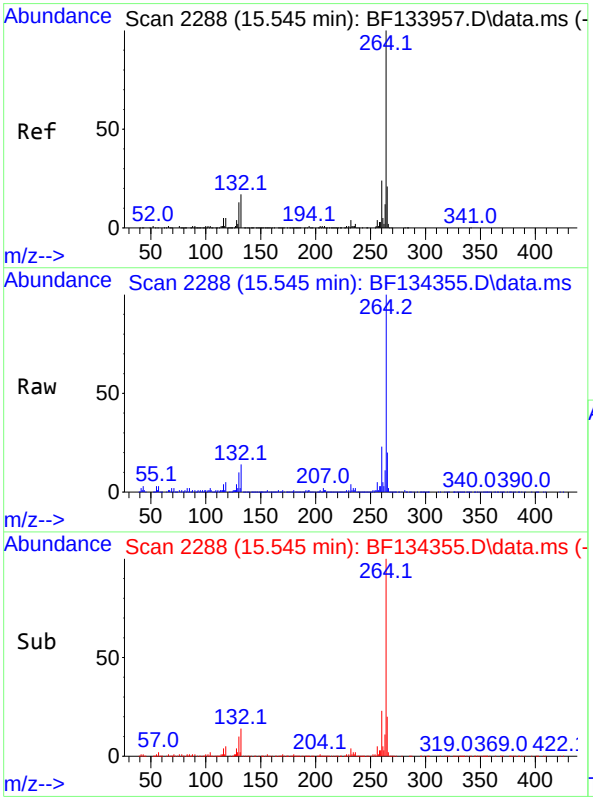
Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	10.2	9.0	13.4



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

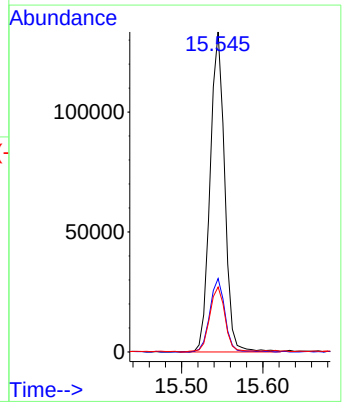
Reviewed By :Yogesh Patel 07/20/2023
Supervised By :mohammad ahmed 07/20/2023

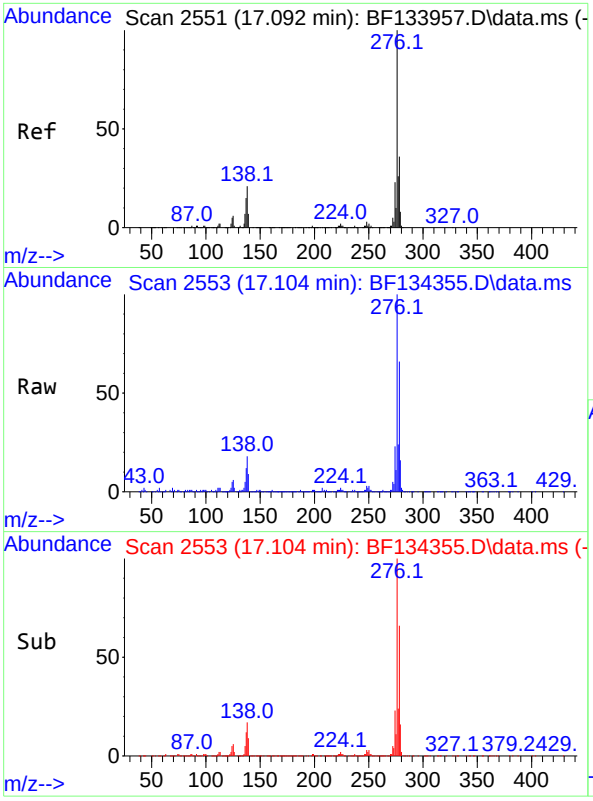


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.545 min Scan# 2288
Delta R.T. 0.000 min
Lab File: BF134355.D
Acq: 19 Jul 2023 13:01

Tgt Ion:264 Resp: 165841

Ion	Ratio	Lower	Upper
264	100		
260	23.0	19.5	29.3
265	20.3	16.6	25.0

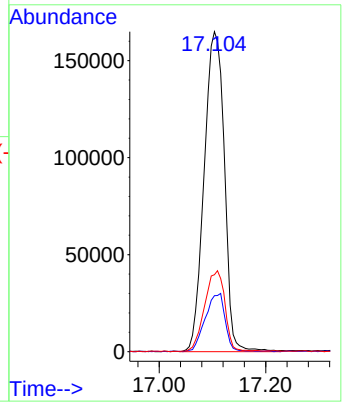




#87
Indeno(1,2,3-cd)pyrene
Concen: 37.847 ng
RT: 17.104 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF134355.D
Acq: 19 Jul 2023 13:01

Tgt Ion:276 Resp: 43553

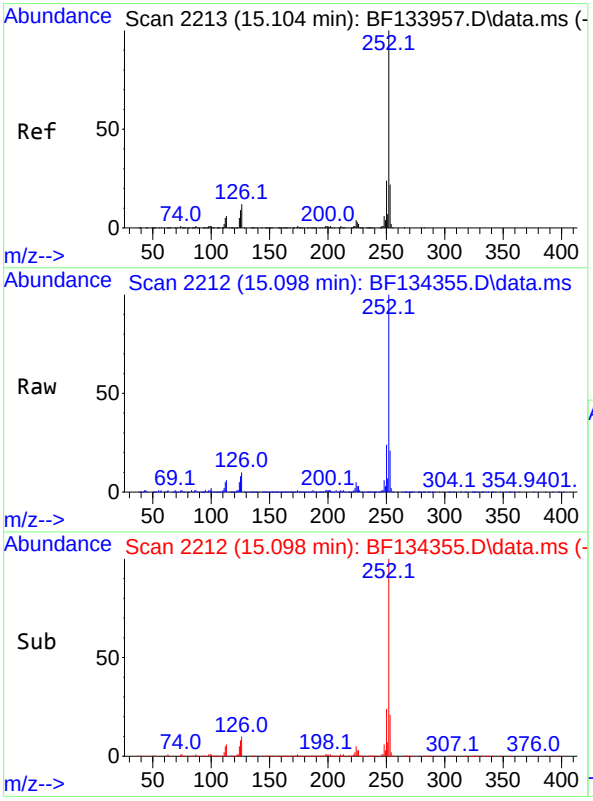
Ion	Ratio	Lower	Upper
276	100		
138	18.0	18.7	28.1#
277	25.5	19.9	29.9



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

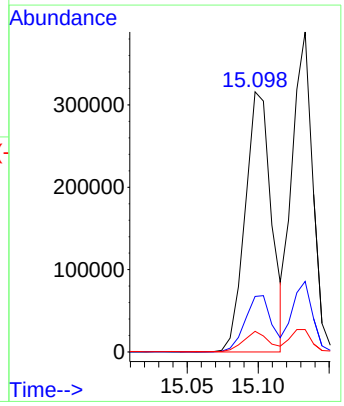
Reviewed By :Yogesh Patel 07/20/2023
Supervised By :mohammad ahmed 07/20/2023

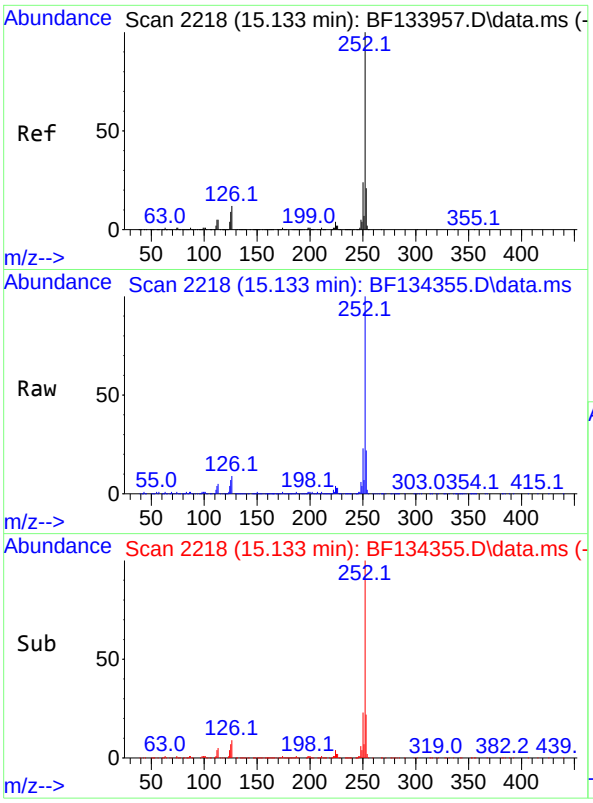


#88
Benzo(b)fluoranthene
Concen: 41.714 ng
RT: 15.098 min Scan# 2212
Delta R.T. -0.006 min
Lab File: BF134355.D
Acq: 19 Jul 2023 13:01

Tgt Ion:252 Resp: 406782

Ion	Ratio	Lower	Upper
252	100		
253	21.3	17.4	26.0
125	7.9	7.1	10.7

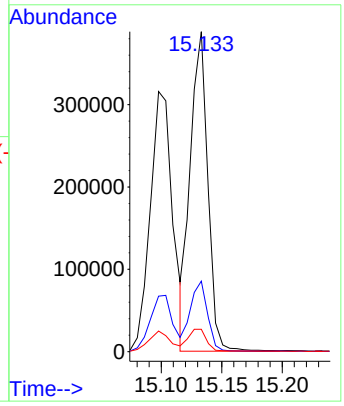




#89
Benzo(k)fluoranthene
Concen: 39.456 ng m
RT: 15.133 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF134355.D
Acq: 19 Jul 2023 13:01

Tgt Ion:252 Resp: 39174

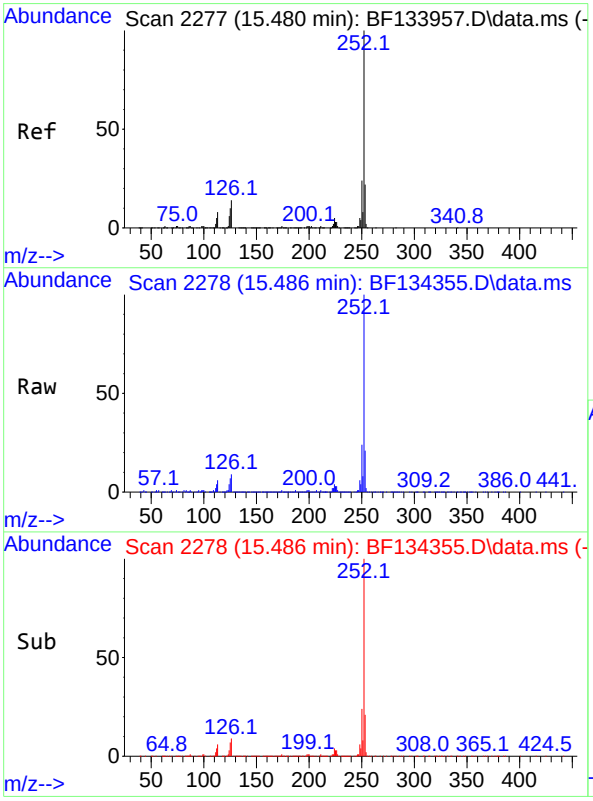
Ion	Ratio	Lower	Upper
252	100		
253	22.1	16.9	25.3
125	7.0	7.4	11.2#



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

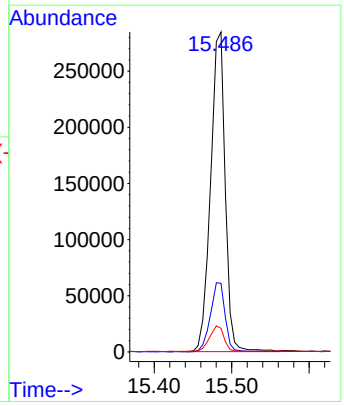
Reviewed By :Yogesh Patel 07/20/2023
Supervised By :mohammad ahmed 07/20/2023

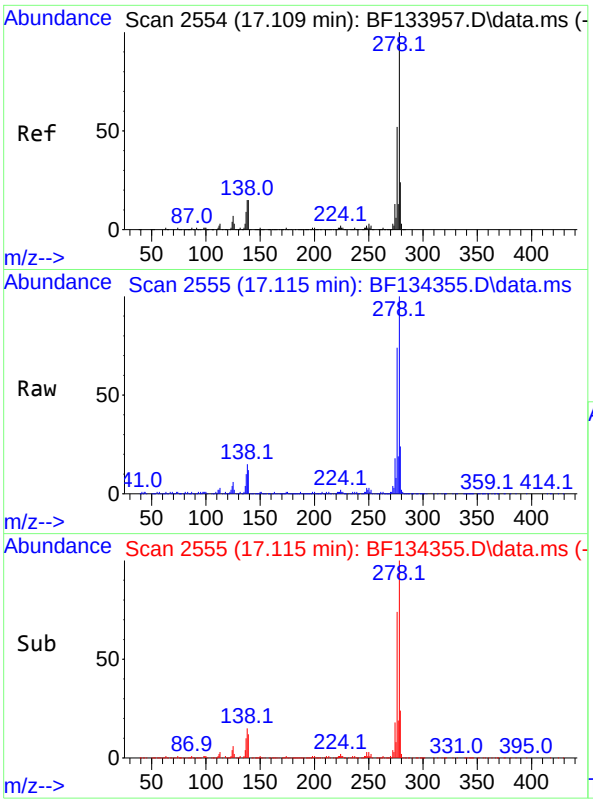


#90
Benzo(a)pyrene
Concen: 39.568 ng
RT: 15.486 min Scan# 2278
Delta R.T. 0.006 min
Lab File: BF134355.D
Acq: 19 Jul 2023 13:01

Tgt Ion:252 Resp: 373115

Ion	Ratio	Lower	Upper
252	100		
253	21.5	17.4	26.0
125	7.4	8.4	12.6#

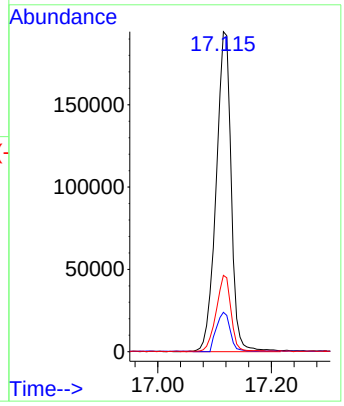




#91
Dibenzo(a,h)anthracene
Concen: 38.062 ng
RT: 17.115 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF134355.D
Acq: 19 Jul 2023 13:01

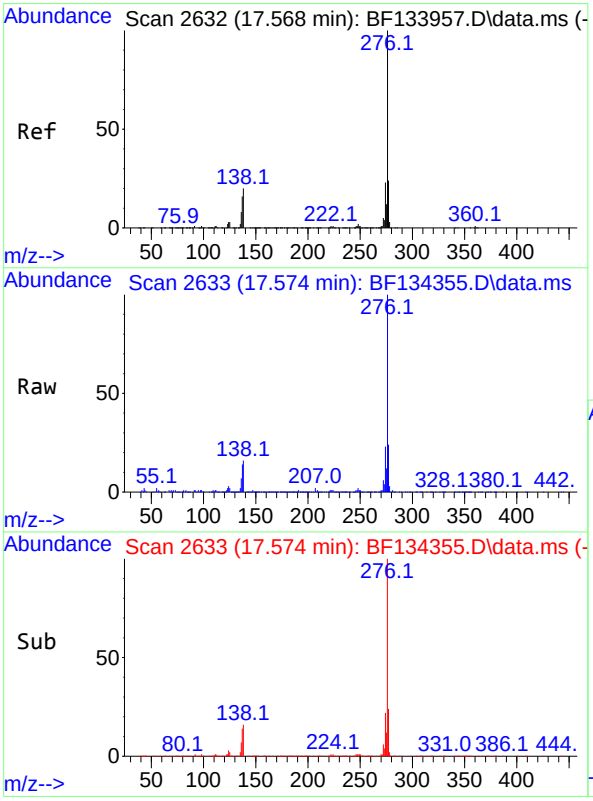
Tgt Ion:278 Resp: 35775

Ion	Ratio	Lower	Upper
278	100		
139	12.3	12.2	18.4
279	23.9	19.4	29.2



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

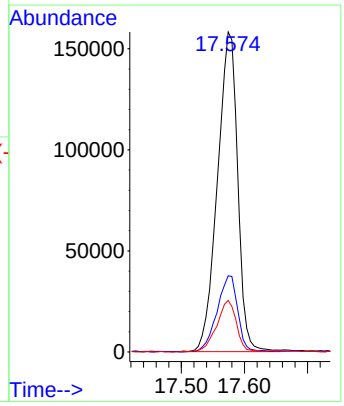
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 07/20/2023
Supervised By :mohammad ahmed 07/20/2023



#92
Benzo(g,h,i)perylene
Concen: 36.272 ng
RT: 17.574 min Scan# 2633
Delta R.T. 0.006 min
Lab File: BF134355.D
Acq: 19 Jul 2023 13:01

Tgt Ion:276 Resp: 351581

Ion	Ratio	Lower	Upper
276	100		
277	23.8	19.0	28.6
138	16.1	16.2	24.2#



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF071923\
Data File : BF134355.D
Acq On : 19 Jul 2023 13:01
Operator : CG\JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Jul 19 13:57:20 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF062623.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 14 22:51:27 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	57	0.00
2		1,4-Dioxane	0.493	0.511	-3.7	59	0.02
3		Pyridine	1.284	1.267	1.3	56	0.02
4		n-Nitrosodimethylamine	0.733	0.706	3.7	54	0.03
5	S	2-Fluorophenol	1.196	1.187	0.8	58	0.00
6		Aniline	1.789	1.727	3.5	55	0.00
7	S	Phenol-d6	1.470	1.450	1.4	58	0.00
8		2-Chlorophenol	1.214	1.220	-0.5	59	0.00
9		Benzaldehyde	0.886	0.819	7.6	58	0.00
10	C	Phenol	1.546	1.519	1.7	57	0.00
11		bis(2-Chloroethyl)ether	1.138	1.085	4.7	55	0.00
12		1,3-Dichlorobenzene	1.294	1.308	-1.1	59	0.00
13	C	1,4-Dichlorobenzene	1.307	1.316	-0.7	58	0.00
14		1,2-Dichlorobenzene	1.224	1.245	-1.7	60	0.00
15		Benzyl Alcohol	1.134	1.206	-6.3	60	0.00
16		2,2'-oxybis(1-Chloropropane	2.014	1.599	20.6	46#	0.00
17		2-Methylphenol	1.087	1.057	2.8	56	0.00
18		Hexachloroethane	0.485	0.503	-3.7	59	0.00
19	P	n-Nitroso-di-n-propylamine	0.932	0.921	1.2	59	0.00
20		3+4-Methylphenols	1.319	1.374	-4.2	61	0.00
21	I	Naphthalene-d8	1.000	1.000	0.0	56	0.00
22		Acetophenone	0.455	0.488	-7.3	62	0.00
23	S	Nitrobenzene-d5	0.371	0.397	-7.0	60	0.00
24		Nitrobenzene	0.375	0.383	-2.1	57	0.00
25		Isophorone	0.674	0.673	0.1	57	0.00
26	C	2-Nitrophenol	0.180	0.188	-4.4	57	0.00
27		2,4-Dimethylphenol	0.285	0.286	-0.4	56	0.00
28		bis(2-Chloroethoxy)methane	0.390	0.378	3.1	54	0.00
29	C	2,4-Dichlorophenol	0.282	0.287	-1.8	57	0.00
30		1,2,4-Trichlorobenzene	0.291	0.308	-5.8	60	0.00
31		Naphthalene	0.966	0.982	-1.7	58	0.00
32		Benzoic acid	0.213	0.196	8.0	48#	0.01
33		4-Chloroaniline	0.413	0.420	-1.7	57	0.00
34	C	Hexachlorobutadiene	0.184	0.210	-14.1	64	0.00
35		Caprolactam	0.093	0.086	7.5	51	0.00
36	C	4-Chloro-3-methylphenol	0.317	0.331	-4.4	59	0.00
37		2-Methylnaphthalene	0.683	0.698	-2.2	59	0.00
38		1-Methylnaphthalene	0.635	0.646	-1.7	59	0.00
39	I	Acenaphthene-d10	1.000	1.000	0.0	57	0.00
40		1,2,4,5-Tetrachlorobenzene	0.593	0.631	-6.4	62	0.00
41	P	Hexachlorocyclopentadiene	0.281	0.306	-8.9	59	0.00
42	S	2,4,6-Tribromophenol	0.251	0.288	-14.7	66	0.00
43	C	2,4,6-Trichlorophenol	0.403	0.404	-0.2	57	0.00
44		2,4,5-Trichlorophenol	0.474	0.470	0.8	57	0.00
45	S	2-Fluorobiphenyl	1.376	1.487	-8.1	64	0.00
46		1,1'-Biphenyl	1.604	1.636	-2.0	59	0.00
47		2-Chloronaphthalene	1.174	1.179	-0.4	58	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF071923\
Data File : BF134355.D
Acq On : 19 Jul 2023 13:01
Operator : CG\JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Jul 19 13:57:20 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF062623.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 14 22:51:27 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
48		2-Nitroaniline	0.428	0.427	0.2	57	0.00
49		Acenaphthylene	2.005	1.994	0.5	58	0.00
50		Dimethylphthalate	1.452	1.461	-0.6	58	0.00
51		2,6-Dinitrotoluene	0.313	0.320	-2.2	57	0.00
52	C	Acenaphthene	1.164	1.184	-1.7	59	0.00
53		3-Nitroaniline	0.375	0.356	5.1	54	0.00
54	P	2,4-Dinitrophenol	0.162	0.173	-6.8	59	0.00
55		Dibenzofuran	1.818	1.814	0.2	57	0.00
56	P	4-Nitrophenol	0.262	0.212	19.1	45#	0.00
57		2,4-Dinitrotoluene	0.413	0.427	-3.4	58	0.00
58		Fluorene	1.415	1.449	-2.4	60	0.00
59		2,3,4,6-Tetrachlorophenol	0.374	0.367	1.9	57	0.00
60		Diethylphthalate	1.513	1.539	-1.7	59	0.00
61		4-Chlorophenyl-phenylether	0.682	0.714	-4.7	61	0.00
62		4-Nitroaniline	0.378	0.363	4.0	55	0.00
63		Azobenzene	1.431	1.395	2.5	57	0.00
64	I	Phenanthrene-d10	1.000	1.000	0.0	57	0.00
65		4,6-Dinitro-2-methylphenol	0.109	0.119	-9.2	57	0.00
66	c	n-Nitrosodiphenylamine	0.639	0.641	-0.3	58	0.00
67		4-Bromophenyl-phenylether	0.213	0.228	-7.0	61	0.00
68		Hexachlorobenzene	0.226	0.243	-7.5	62	0.00
69		Atrazine	0.177	0.181	-2.3	61	0.00
70	C	Pentachlorophenol	0.135	0.114	15.6	46#	0.00
71		Phenanthrene	1.007	1.017	-1.0	59	0.00
72		Anthracene	1.047	1.055	-0.8	59	0.00
73		Carbazole	0.959	0.965	-0.6	58	0.00
74		Di-n-butylphthalate	1.140	1.193	-4.6	59	0.00
75	C	Fluoranthene	1.088	1.140	-4.8	61	0.00
76	I	Chrysene-d12	1.000	1.000	0.0	73	0.00
77		Benzidine	0.476	0.458	3.8	66	0.00
78		Pyrene	1.861	1.720	7.6	64	0.00
79	S	Terphenyl-d14	1.243	1.199	3.5	70	0.00
80		Butylbenzylphthalate	0.698	0.688	1.4	70	0.00
81		Benzo(a)anthracene	1.387	1.378	0.6	73	0.00
82		3,3'-Dichlorobenzidine	0.439	0.437	0.5	75	0.00
83		Chrysene	1.343	1.309	2.5	72	0.00
84		Bis(2-ethylhexyl)phthalate	0.802	0.876	-9.2	78	0.00
85	c	Di-n-octyl phthalate	1.179	1.282	-8.7	79	0.00
86	I	Perylene-d12	1.000	1.000	0.0	70	0.00
87		Indeno(1,2,3-cd)pyrene	1.388	1.313	5.4	61	0.00
88		Benzo(b)fluoranthene	1.176	1.226	-4.3	73	0.00
89		Benzo(k)fluoranthene	1.197	1.181	1.3	72	0.00
90	C	Benzo(a)pyrene	1.137	1.125	1.1	70	0.00
91		Dibenzo(a,h)anthracene	1.134	1.079	4.9	61	0.00
92		Benzo(g,h,i)perylene	1.169	1.060	9.3	59	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF071923\
Data File : BF134355.D
Acq On : 19 Jul 2023 13:01
Operator : CG\JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Jul 19 13:57:20 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF062623.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 14 22:51:27 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF071923\
Data File : BF134355.D
Acq On : 19 Jul 2023 13:01
Operator : CG\JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Jul 19 13:57:20 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF062623.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 14 22:51:27 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	20.000	20.000	0.0	57	0.00
2		1,4-Dioxane	40.000	41.482	-3.7	59	0.02
3		Pyridine	40.000	39.475	1.3	56	0.02
4		n-Nitrosodimethylamine	40.000	38.525	3.7	54	0.03
5	S	2-Fluorophenol	80.000	79.403	0.7	58	0.00
6		Aniline	40.000	38.612	3.5	55	0.00
7	S	Phenol-d6	80.000	78.898	1.4	58	0.00
8		2-Chlorophenol	40.000	40.199	-0.5	59	0.00
9		Benzaldehyde	40.000	40.741	-1.9	58	0.00
10	C	Phenol	40.000	39.312	1.7	57	0.00
11		bis(2-Chloroethyl)ether	40.000	38.127	4.7	55	0.00
12		1,3-Dichlorobenzene	40.000	40.425	-1.1	59	0.00
13	C	1,4-Dichlorobenzene	40.000	40.270	-0.7	58	0.00
14		1,2-Dichlorobenzene	40.000	40.680	-1.7	60	0.00
15		Benzyl Alcohol	40.000	42.554	-6.4	60	0.00
16		2,2'-oxybis(1-Chloropropane	40.000	31.757	20.6	46	0.00
17		2-Methylphenol	40.000	38.906	2.7	56	0.00
18		Hexachloroethane	40.000	41.537	-3.8	59	0.00
19	P	n-Nitroso-di-n-propylamine	40.000	39.503	1.2	59	0.00
20		3+4-Methylphenols	40.000	41.686	-4.2	61	0.00
21	I	Naphthalene-d8	20.000	20.000	0.0	56	0.00
22		Acetophenone	40.000	42.944	-7.4	62	0.00
23	S	Nitrobenzene-d5	80.000	85.641	-7.1	60	0.00
24		Nitrobenzene	40.000	40.845	-2.1	57	0.00
25		Isophorone	40.000	39.922	0.2	57	0.00
26	C	2-Nitrophenol	40.000	41.796	-4.5	57	0.00
27		2,4-Dimethylphenol	40.000	40.147	-0.4	56	0.00
28		bis(2-Chloroethoxy)methane	40.000	38.699	3.3	54	0.00
29	C	2,4-Dichlorophenol	40.000	40.603	-1.5	57	0.00
30		1,2,4-Trichlorobenzene	40.000	42.282	-5.7	60	0.00
31		Naphthalene	40.000	40.672	-1.7	58	0.00
32		Benzoic acid	40.000	36.770	8.1	48	0.01
33		4-Chloroaniline	40.000	40.675	-1.7	57	0.00
34	C	Hexachlorobutadiene	40.000	45.652	-14.1	64	0.00
35		Caprolactam	40.000	37.031	7.4	51	0.00
36	C	4-Chloro-3-methylphenol	40.000	41.741	-4.4	59	0.00
37		2-Methylnaphthalene	40.000	40.848	-2.1	59	0.00
38		1-Methylnaphthalene	40.000	40.659	-1.6	59	0.00
39	I	Acenaphthene-d10	20.000	20.000	0.0	57	0.00
40		1,2,4,5-Tetrachlorobenzene	40.000	42.621	-6.6	62	0.00
41	P	Hexachlorocyclopentadiene	40.000	43.559	-8.9	59	0.00
42	S	2,4,6-Tribromophenol	80.000	91.840	-14.8	66	0.00
43	C	2,4,6-Trichlorophenol	40.000	40.030	-0.1	57	0.00
44		2,4,5-Trichlorophenol	40.000	39.638	0.9	57	0.00
45	S	2-Fluorobiphenyl	80.000	86.504	-8.1	64	0.00
46		1,1'-Biphenyl	40.000	40.780	-2.0	59	0.00
47		2-Chloronaphthalene	40.000	40.161	-0.4	58	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF071923\
Data File : BF134355.D
Acq On : 19 Jul 2023 13:01
Operator : CG\JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Jul 19 13:57:20 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF062623.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 14 22:51:27 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
48		2-Nitroaniline	40.000	39.970	0.1	57	0.00
49		Acenaphthylene	40.000	39.769	0.6	58	0.00
50		Dimethylphthalate	40.000	40.249	-0.6	58	0.00
51		2,6-Dinitrotoluene	40.000	40.954	-2.4	57	0.00
52	C	Acenaphthene	40.000	40.709	-1.8	59	0.00
53		3-Nitroaniline	40.000	37.921	5.2	54	0.00
54	P	2,4-Dinitrophenol	40.000	40.287	-0.7	59	0.00
55		Dibenzofuran	40.000	39.903	0.2	57	0.00
56	P	4-Nitrophenol	40.000	32.385	19.0	45	0.00
57		2,4-Dinitrotoluene	40.000	41.365	-3.4	58	0.00
58		Fluorene	40.000	40.977	-2.4	60	0.00
59		2,3,4,6-Tetrachlorophenol	40.000	39.266	1.8	57	0.00
60		Diethylphthalate	40.000	40.700	-1.8	59	0.00
61		4-Chlorophenyl-phenylether	40.000	41.901	-4.8	61	0.00
62		4-Nitroaniline	40.000	38.385	4.0	55	0.00
63		Azobenzene	40.000	39.014	2.5	57	0.00
64	I	Phenanthrene-d10	20.000	20.000	0.0	57	0.00
65		4,6-Dinitro-2-methylphenol	40.000	43.472	-8.7	57	0.00
66	c	n-Nitrosodiphenylamine	40.000	40.149	-0.4	58	0.00
67		4-Bromophenyl-phenylether	40.000	42.876	-7.2	61	0.00
68		Hexachlorobenzene	40.000	43.048	-7.6	62	0.00
69		Atrazine	40.000	40.861	-2.2	61	0.00
70	C	Pentachlorophenol	40.000	33.700	15.7	46	0.00
71		Phenanthrene	40.000	40.386	-1.0	59	0.00
72		Anthracene	40.000	40.290	-0.7	59	0.00
73		Carbazole	40.000	40.284	-0.7	58	0.00
74		Di-n-butylphthalate	40.000	41.848	-4.6	59	0.00
75	C	Fluoranthene	40.000	41.885	-4.7	61	0.00
76	I	Chrysene-d12	20.000	20.000	0.0	73	0.00
77		Benzidine	40.000	38.481	3.8	66	0.00
78		Pyrene	40.000	36.954	7.6	64	0.00
79	S	Terphenyl-d14	80.000	77.204	3.5	70	0.00
80		Butylbenzylphthalate	40.000	39.421	1.4	70	0.00
81		Benzo(a)anthracene	40.000	39.737	0.7	73	0.00
82		3,3'-Dichlorobenzidine	40.000	39.756	0.6	75	0.00
83		Chrysene	40.000	38.966	2.6	72	0.00
84		Bis(2-ethylhexyl)phthalate	40.000	43.689	-9.2	78	0.00
85	c	Di-n-octyl phthalate	40.000	43.496	-8.7	79	0.00
86	I	Perylene-d12	20.000	20.000	0.0	70	0.00
87		Indeno(1,2,3-cd)pyrene	40.000	37.847	5.4	61	0.00
88		Benzo(b)fluoranthene	40.000	41.714	-4.3	73	0.00
89		Benzo(k)fluoranthene	40.000	39.456	1.4	72	0.00
90	C	Benzo(a)pyrene	40.000	39.568	1.1	70	0.00
91		Dibenzo(a,h)anthracene	40.000	38.062	4.8	61	0.00
92		Benzo(g,h,i)perylene	40.000	36.272	9.3	59	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF071923\
Data File : BF134355.D
Acq On : 19 Jul 2023 13:01
Operator : CG\JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Jul 19 13:57:20 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF062623.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 14 22:51:27 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)

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

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM Case No.: O3645 SAS No.: O3645 SDG No.: O3645

Instrument ID: BNA_F Calibration Date/Time: 07/28/2023 16:29

Lab File ID: BF134518.D Init. Calib. Date(s): 07/24/2023 07/24/2023

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 13:46 17:44

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.211	1.173		-3.1	
Benzaldehyde	0.794	0.729		-8.2	
Phenol-d6	1.483	1.415		-4.6	
Phenol	1.543	1.479		-4.1	20.0
bis(2-Chloroethyl)ether	1.077	1.099		2.0	
2-Chlorophenol	1.226	1.159		-5.5	
2-Methylphenol	1.094	1.036		-5.3	
2,2-oxybis(1-Chloropropane)	1.586	1.740		9.7	
Acetophenone	0.497	0.444		-10.7	
3+4-Methylphenols	1.400	1.315		-6.1	
n-Nitroso-di-n-propylamine	0.923	0.934	0.050	1.2	
Nitrobenzene-d5	0.395	0.352		-10.9	
Hexachloroethane	0.521	0.471		-9.6	
Nitrobenzene	0.393	0.357		-9.2	
Isophorone	0.659	0.653		-0.9	
2-Nitrophenol	0.181	0.174		-3.9	20.0
2,4-Dimethylphenol	0.285	0.269		-5.6	
bis(2-Chloroethoxy)methane	0.367	0.368		0.3	
2,4-Dichlorophenol	0.285	0.268		-6.0	20.0
Naphthalene	0.995	0.914		-8.1	
4-Chloroaniline	0.411	0.396		-3.7	
Hexachlorobutadiene	0.206	0.180		-12.6	20.0
Caprolactam	0.087	0.092		5.7	
4-Chloro-3-methylphenol	0.329	0.315		-4.3	20.0
2-Methylnaphthalene	0.692	0.656		-5.2	
Hexachlorocyclopentadiene	0.152	0.159	0.050	4.6	
2,4,6-Trichlorophenol	0.407	0.369		-9.3	20.0
2-Fluorobiphenyl	1.523	1.311		-14.0	
2,4,5-Trichlorophenol	0.474	0.424		-10.5	
1,1-Biphenyl	1.648	1.449		-12.1	
2-Chloronaphthalene	1.215	1.061		-12.7	
2-Nitroaniline	0.438	0.391		-10.7	
Dimethylphthalate	1.483	1.367		-7.8	
Acenaphthylene	2.053	1.793		-12.7	
2,6-Dinitrotoluene	0.325	0.300		-7.7	
3-Nitroaniline	0.373	0.344		-7.8	
Acenaphthene	1.213	1.072		-11.6	20.0
2,4-Dinitrophenol	0.143	0.135	0.050	-5.6	
4-Nitrophenol	0.199	0.196	0.050	-1.5	
Dibenzofuran	1.867	1.651		-11.6	
2,4-Dinitrotoluene	0.437	0.392		-10.3	

Form VII SV-1

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM Case No.: O3645 SAS No.: O3645 SDG No.: O3645

Instrument ID: BNA_F Calibration Date/Time: 07/28/2023 16:29

Lab File ID: BF134518.D Init. Calib. Date(s): 07/24/2023 07/24/2023

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 13:46 17:44

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Diethylphthalate	1.535	1.478		-3.7	
4-Chlorophenyl-phenylether	0.719	0.666		-7.4	
Fluorene	1.506	1.366		-9.3	
4-Nitroaniline	0.383	0.327		-14.6	
4,6-Dinitro-2-methylphenol	0.115	0.108		-6.1	
n-Nitrosodiphenylamine	0.636	0.579		-9.0	20.0
2,4,6-Tribromophenol	0.284	0.259		-8.8	
4-Bromophenyl-phenylether	0.219	0.203		-7.3	
Hexachlorobenzene	0.247	0.222		-10.1	
Atrazine	0.177	0.164		-7.3	
Pentachlorophenol	0.104	0.105		1.0	20.0
Phenanthrene	1.045	0.915		-12.4	
Anthracene	1.079	0.945		-12.4	
Carbazole	1.016	0.881		-13.3	
Di-n-butylphthalate	1.166	1.125		-3.5	
Fluoranthene	1.218	1.018		-16.4	20.0
Pyrene	1.590	1.553		-2.3	
Terphenyl-d14	1.146	1.106		-3.5	
Butylbenzylphthalate	0.637	0.659		3.5	
3,3-Dichlorobenzidine	0.442	0.368		-16.7	
Benzo(a)anthracene	1.395	1.232		-11.7	
Chrysene	1.335	1.187		-11.1	
Bis(2-ethylhexyl)phthalate	0.774	0.863		11.5	
Di-n-octyl phthalate	1.075	1.220		13.5	20.0
Benzo(b)fluoranthene	1.251	1.180		-5.7	
Benzo(k)fluoranthene	1.230	1.121		-8.9	
Benzo(a)pyrene	1.157	1.032		-10.8	20.0
Indeno(1,2,3-cd)pyrene	1.307	1.156		-11.6	
Dibenzo(a,h)anthracene	1.055	0.957		-9.3	
Benzo(g,h,i)perylene	1.083	0.966		-10.8	
1,2,4,5-Tetrachlorobenzene	0.634	0.552		-12.9	
1,4-Dioxane	0.513	0.415		-19.1	20.0
2,3,4,6-Tetrachlorophenol	0.364	0.351		-3.6	

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF072823\
Data File : BF134518.D
Acq On : 28 Jul 2023 16:29
Operator : CG\JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 28 18:13:59 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF072423.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jul 27 12:16:03 2023
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/31/2023

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.828	152	87669	20.000	ng		0.00
21) Naphthalene-d8	8.110	136	337479	20.000	ng	#	0.00
39) Acenaphthene-d10	9.869	164	185549	20.000	ng		0.00
64) Phenanthrene-d10	11.363	188	383332	20.000	ng		0.00
76) Chrysene-d12	14.021	240	254954	20.000	ng		0.00
86) Perylene-d12	15.515	264	199170	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.463	112	411402	77.532	ng		0.00
7) Phenol-d6	6.475	99	496046	76.301	ng		0.00
23) Nitrobenzene-d5	7.398	82	475614	71.304	ng		0.00
42) 2,4,6-Tribromophenol	10.663	330	192307	72.945	ng		0.00
45) 2-Fluorobiphenyl	9.187	172	972647	68.817	ng		0.00
79) Terphenyl-d14	12.957	244	1128327	77.256	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.593	88	72686	32.295	ng		97
3) Pyridine	3.387	79	195280	38.653	ng		98
4) n-Nitrosodimethylamine	3.352	42	98030	32.833	ng		88
6) Aniline	6.498	93	305668	39.893	ng		91
8) 2-Chlorophenol	6.622	128	203302	37.819	ng		98
9) Benzaldehyde	6.393	77	127894	36.735	ng		95
10) Phenol	6.487	94	259402	38.349	ng		94
11) bis(2-Chloroethyl)ether	6.569	93	192682	40.805	ng		97
12) 1,3-Dichlorobenzene	6.769	146	219544	37.980	ng		98
13) 1,4-Dichlorobenzene	6.845	146	222333	37.375	ng		99
14) 1,2-Dichlorobenzene	6.998	146	209372	37.468	ng		96
15) Benzyl Alcohol	6.981	79	194388	38.726	ng		98
16) 2,2'-oxybis(1-Chloropr...	7.104	45	305045	43.867	ng		100
17) 2-Methylphenol	7.093	107	181695	37.899	ng		98
18) Hexachloroethane	7.334	117	82600	36.142	ng		98
19) n-Nitroso-di-n-propyla...	7.245	70	163750	40.461	ng		95
20) 3+4-Methylphenols	7.245	107	230505	37.553	ng		92
22) Acetophenone	7.245	105	299568	35.692	ng		96
24) Nitrobenzene	7.416	77	241289	36.373	ng		98
25) Isophorone	7.651	82	440708	39.644	ng		98
26) 2-Nitrophenol	7.728	139	117685	38.572	ng		95
27) 2,4-Dimethylphenol	7.769	122	181622	37.721	ng		92
28) bis(2-Chloroethoxy)met...	7.857	93	248161	40.105	ng		100
29) 2,4-Dichlorophenol	7.975	162	180694	37.541	ng		98
30) 1,2,4-Trichlorobenzene	8.051	180	186843	35.987	ng		96
31) Naphthalene	8.134	128	617184	36.746	ng		99
32) Benzoic acid	7.904	122	127637	39.686	ng	#	88
33) 4-Chloroaniline	8.187	127	267498	38.530	ng		98
34) Hexachlorobutadiene	8.239	225	121516	34.937	ng		96
35) Caprolactam	8.563	113	61885	42.048	ng		98
36) 4-Chloro-3-methylphenol	8.675	107	212682	38.295	ng		96
37) 2-Methylnaphthalene	8.822	142	442905	37.952	ng		99
38) 1-Methylnaphthalene	8.922	142	409784	37.851	ng		97
40) 1,2,4,5-Tetrachloroben...	8.987	216	205024	34.868	ng		100
41) Hexachlorocyclopentadiene	8.969	237	59048	39.834	ng		93
43) 2,4,6-Trichlorophenol	9.104	196	136983	36.314	ng		97

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF072823\
Data File : BF134518.D
Acq On : 28 Jul 2023 16:29
Operator : CG\JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 28 18:13:59 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF072423.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jul 27 12:16:03 2023
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/31/2023

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.151	196	157425	35.820	ng		96
46) 1,1'-Biphenyl	9.286	154	537754	35.164	ng		99
47) 2-Chloronaphthalene	9.316	162	393862	34.935	ng		98
48) 2-Nitroaniline	9.422	65	145031	35.719	ng		90
49) Acenaphthylene	9.728	152	665336	34.932	ng		100
50) Dimethylphthalate	9.592	163	507425	36.891	ng		99
51) 2,6-Dinitrotoluene	9.663	165	111363	36.898	ng	#	83
52) Acenaphthene	9.904	154	397714	35.348	ng		98
53) 3-Nitroaniline	9.834	138	127752	36.919	ng		93
54) 2,4-Dinitrophenol	9.951	184	50019	35.564	ng		90
55) Dibenzofuran	10.075	168	612861	35.390	ng		99
56) 4-Nitrophenol	10.010	139	72919	39.516	ng		86
57) 2,4-Dinitrotoluene	10.069	165	145379	35.863	ng		91
58) Fluorene	10.422	166	506998	36.291	ng		99
59) 2,3,4,6-Tetrachlorophenol	10.198	232	130440m	38.630	ng		
60) Diethylphthalate	10.292	149	548353	38.506	ng		99
61) 4-Chlorophenyl-phenyle...	10.410	204	247283	37.054	ng		96
62) 4-Nitroaniline	10.457	138	121176	34.132	ng		93
63) Azobenzene	10.569	77	505287	38.548	ng		95
65) 4,6-Dinitro-2-methylph...	10.486	198	82426	37.485	ng		90
66) n-Nitrosodiphenylamine	10.533	169	443752	36.386	ng		97
67) 4-Bromophenyl-phenylether	10.898	248	155700	37.072	ng		92
68) Hexachlorobenzene	10.969	284	170382	36.025	ng		99
69) Atrazine	11.063	200	126106	37.087	ng		98
70) Pentachlorophenol	11.169	266	80311	40.463	ng		99
71) Phenanthrene	11.386	178	701333	35.017	ng		99
72) Anthracene	11.439	178	724445	35.045	ng		99
73) Carbazole	11.598	167	675751	34.714	ng		99
74) Di-n-butylphthalate	11.922	149	862275	38.588	ng		100
75) Fluoranthene	12.580	202	780580	33.441	ng		98
77) Benzidine	12.710	184	186206	34.205	ng		99
78) Pyrene	12.816	202	791720	39.055	ng		99
80) Butylbenzylphthalate	13.427	149	336111	41.391	ng		98
81) Benzo(a)anthracene	14.010	228	628446	35.330	ng		99
82) 3,3'-Dichlorobenzidine	13.969	252	187655	33.308	ng	#	98
83) Chrysene	14.051	228	605320	35.579	ng		98
84) Bis(2-ethylhexyl)phtha...	13.986	149	440229	44.625	ng		98
85) Di-n-octyl phthalate	14.604	149	622276	45.390	ng		100
87) Indeno(1,2,3-cd)pyrene	17.062	276	460468	35.388	ng		97
88) Benzo(b)fluoranthene	15.074	252	469939	37.715	ng		99
89) Benzo(k)fluoranthene	15.104	252	446532	36.441	ng		99
90) Benzo(a)pyrene	15.457	252	411059	35.691	ng		97
91) Dibenzo(a,h)anthracene	17.068	278	381321	36.288	ng		98
92) Benzo(g,h,i)perylene	17.527	276	384616	35.646	ng		98

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

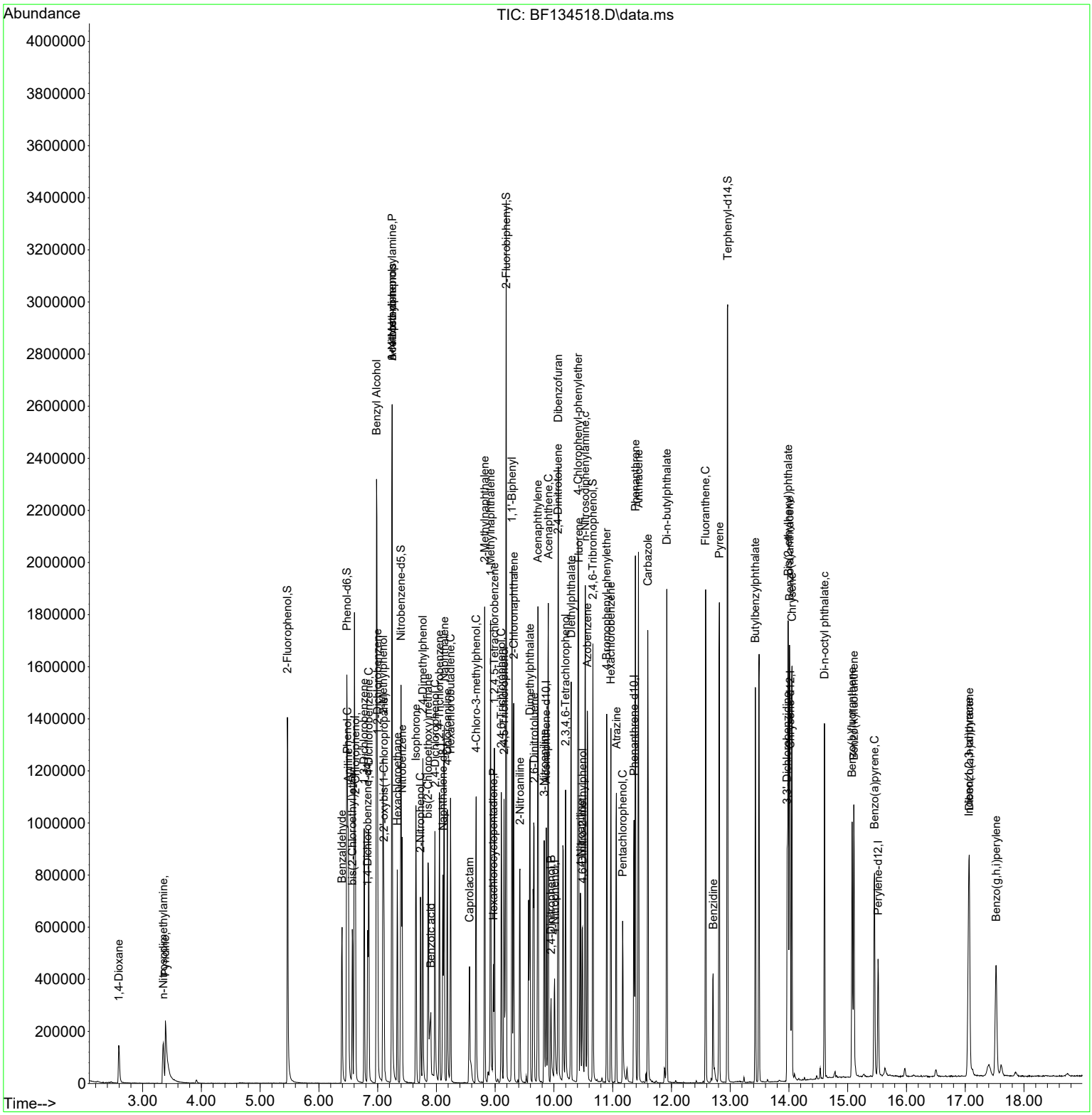
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF072823\
Data File : BF134518.D
Acq On : 28 Jul 2023 16:29
Operator : CG\JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

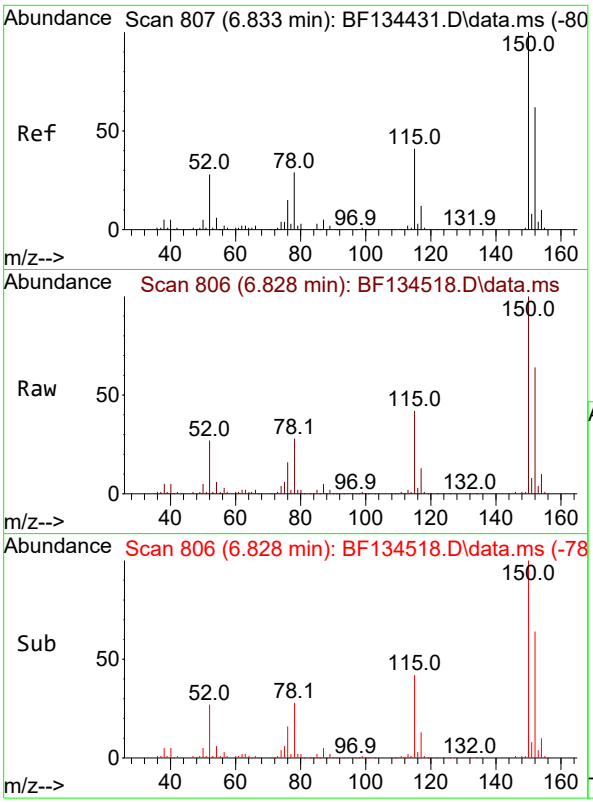
Quant Time: Jul 28 18:13:59 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF072423.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jul 27 12:16:03 2023
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/31/2023

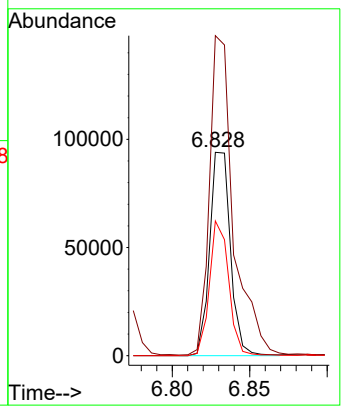




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.828 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF134518.D
Acq: 28 Jul 2023 16:29

Tgt Ion:152 Resp: 8766

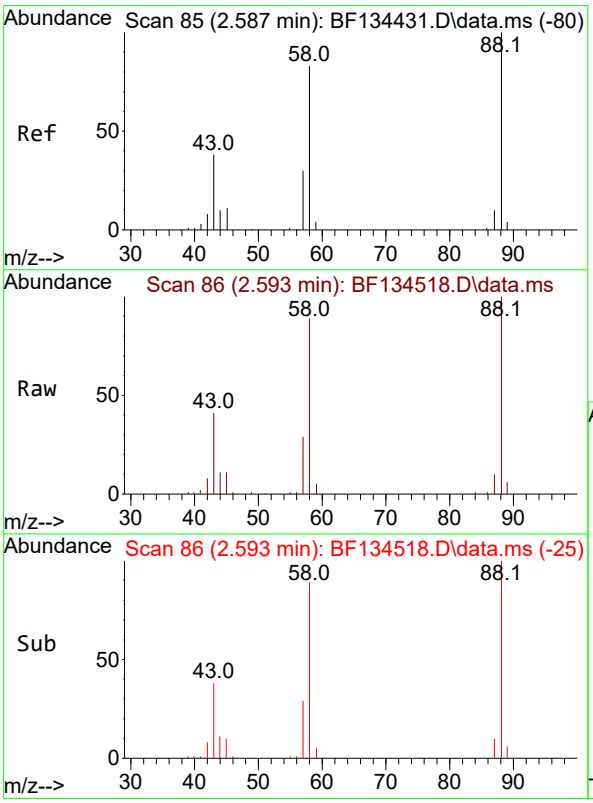
Ion	Ratio	Lower	Upper
152	100		
150	157.3	128.3	192.5
115	66.2	52.4	78.6



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

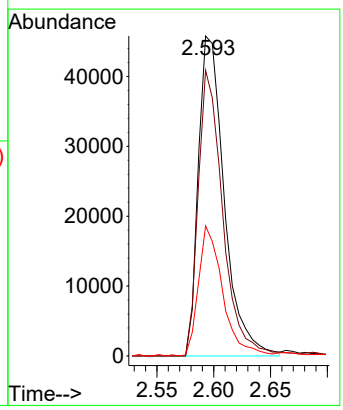
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/31/2023

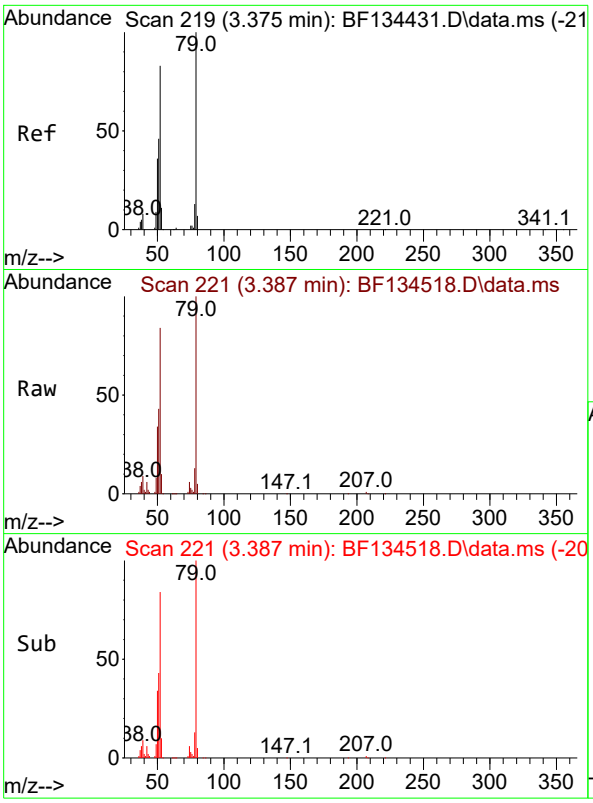


#2
1,4-Dioxane
Concen: 32.295 ng
RT: 2.593 min Scan# 86
Delta R.T. 0.006 min
Lab File: BF134518.D
Acq: 28 Jul 2023 16:29

Tgt Ion: 88 Resp: 72686

Ion	Ratio	Lower	Upper
88	100		
58	84.8	65.1	97.7
43	38.0	30.3	45.5





#3
Pyridine
Concen: 38.653 ng
RT: 3.387 min Scan# 2
Delta R.T. 0.012 min
Lab File: BF134518.D
Acq: 28 Jul 2023 16:29

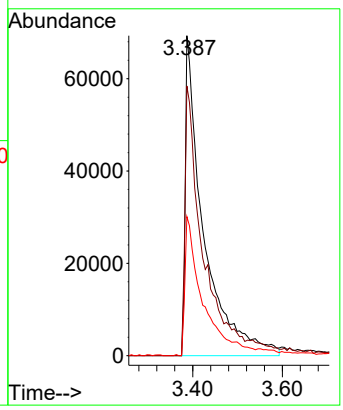
Tgt Ion: 79 Resp: 19528

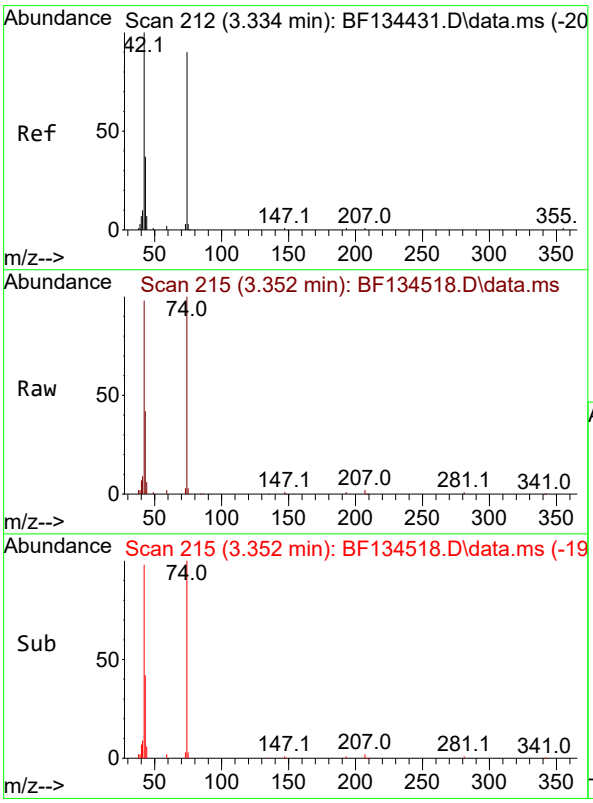
Ion	Ratio	Lower	Upper
79	100		
52	84.3	66.6	100.0
51	43.5	36.5	54.7

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/31/2023

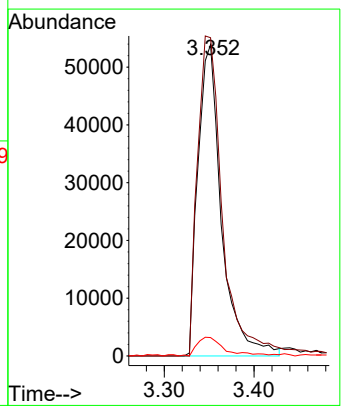


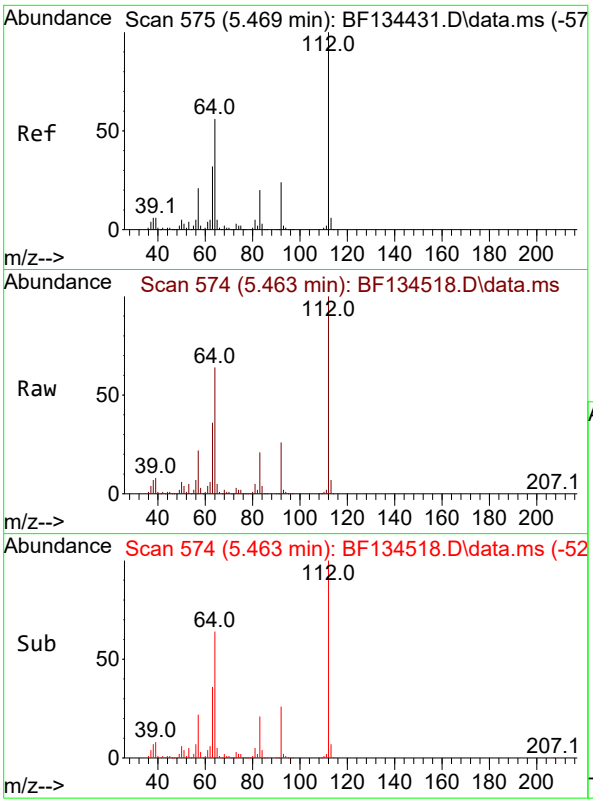


#4
n-Nitrosodimethylamine
Concen: 32.833 ng
RT: 3.352 min Scan# 215
Delta R.T. 0.006 min
Lab File: BF134518.D
Acq: 28 Jul 2023 16:29

Tgt Ion: 42 Resp: 98030

Ion	Ratio	Lower	Upper
42	100		
74	102.2	72.2	108.4
44	5.9	5.4	8.0





#5
2-Fluorophenol
Concen: 77.532 ng
RT: 5.463 min Scan# 5
Delta R.T. 0.000 min
Lab File: BF134518.D
Acq: 28 Jul 2023 16:29

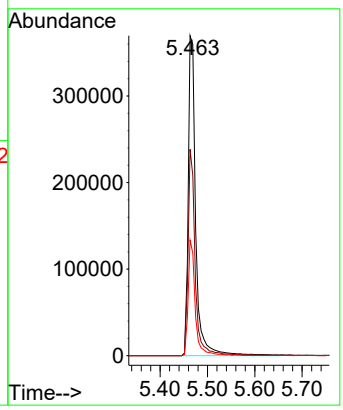
Tgt Ion:112 Resp: 41140

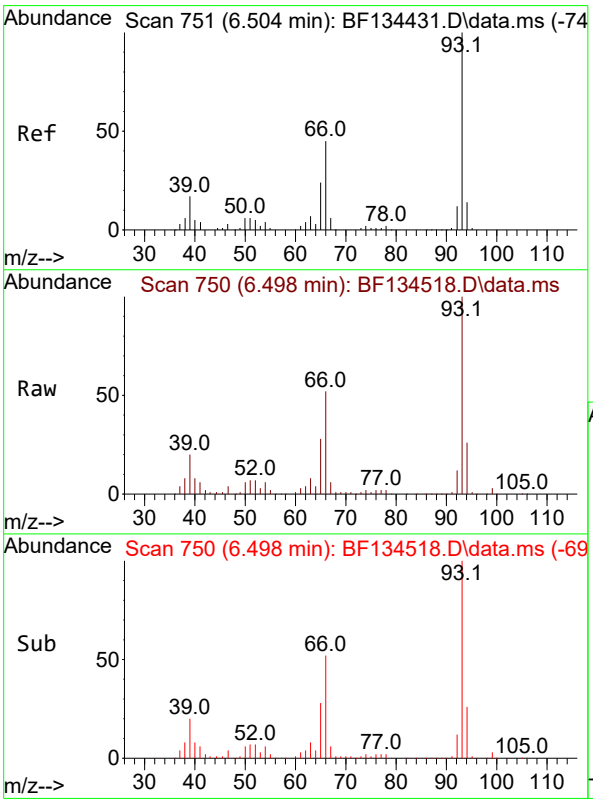
Ion	Ratio	Lower	Upper
112	100		
64	64.5	44.9	67.3
63	36.1	25.4	38.0

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/31/2023

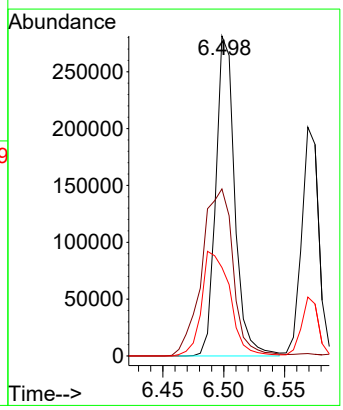


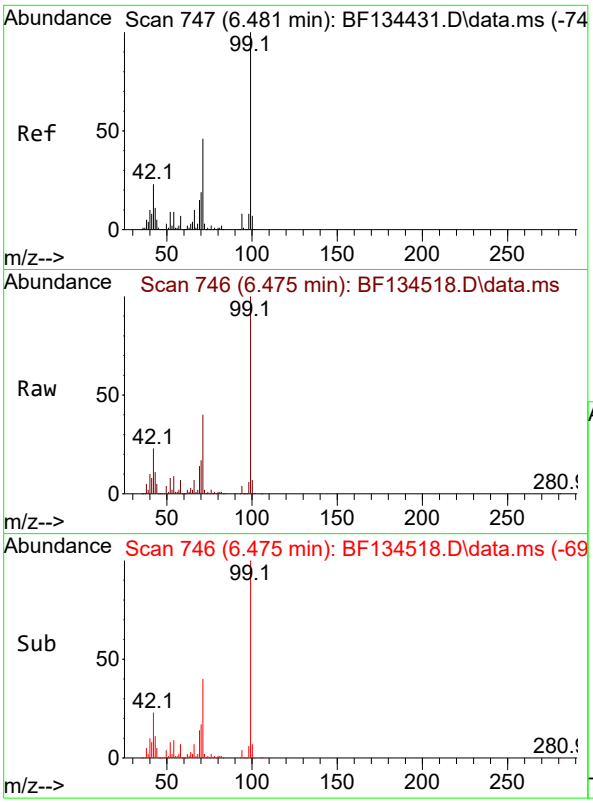


#6
Aniline
Concen: 39.893 ng
RT: 6.498 min Scan# 750
Delta R.T. 0.000 min
Lab File: BF134518.D
Acq: 28 Jul 2023 16:29

Tgt Ion: 93 Resp: 305668

Ion	Ratio	Lower	Upper
93	100		
66	52.2	36.8	55.2
65	27.7	19.4	29.0

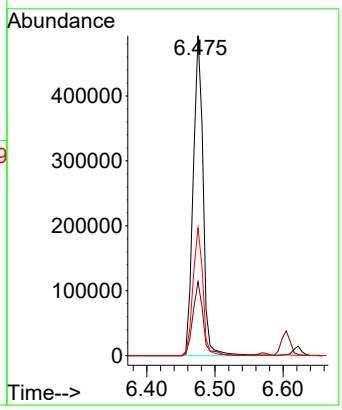




#7
Phenol-d6
Concen: 76.301 ng
RT: 6.475 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF134518.D
Acq: 28 Jul 2023 16:29

Tgt Ion: 99 Resp: 49604

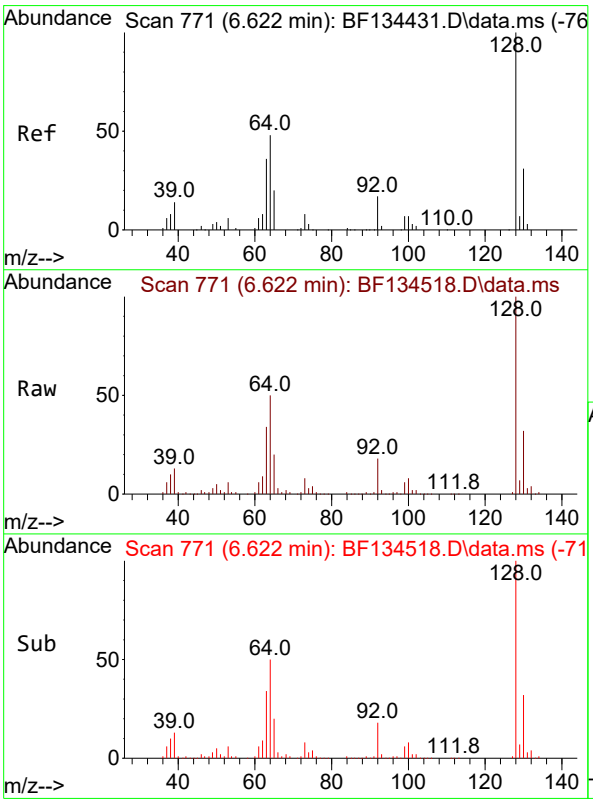
Ion	Ratio	Lower	Upper
99	100		
42	23.1	18.7	28.1
71	39.9	36.4	54.6



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

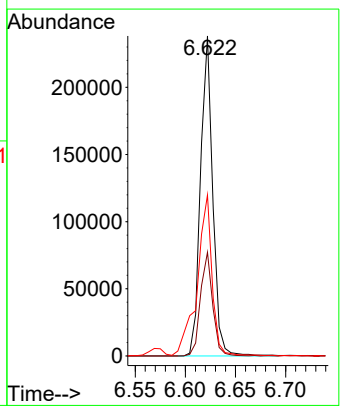
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/31/2023

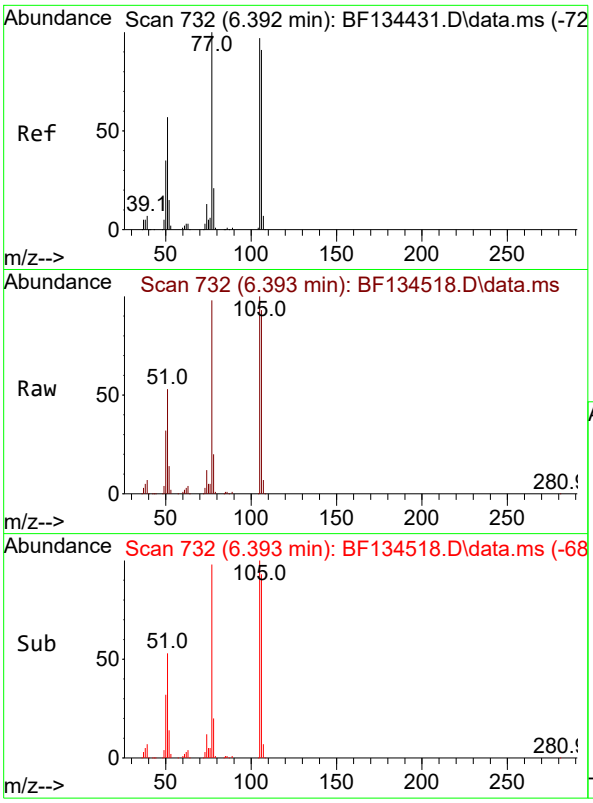


#8
2-Chlorophenol
Concen: 37.819 ng
RT: 6.622 min Scan# 771
Delta R.T. 0.006 min
Lab File: BF134518.D
Acq: 28 Jul 2023 16:29

Tgt Ion:128 Resp: 203302

Ion	Ratio	Lower	Upper
128	100		
130	32.4	11.1	51.1
64	50.3	31.9	71.9

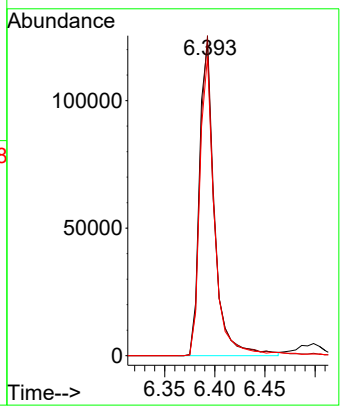




#9
Benzaldehyde
Concen: 36.735 ng
RT: 6.393 min Scan# 7
Delta R.T. 0.006 min
Lab File: BF134518.D
Acq: 28 Jul 2023 16:29

Tgt Ion: 77 Resp: 12789

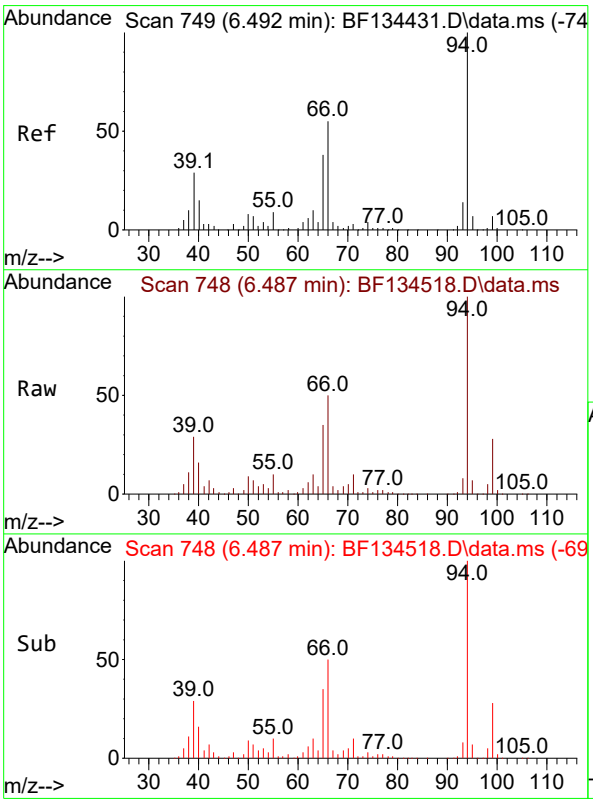
Ion	Ratio	Lower	Upper
77	100		
105	102.4	77.1	117.1
106	95.7	71.4	111.4



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

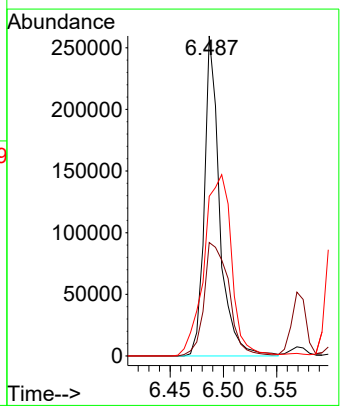
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/31/2023

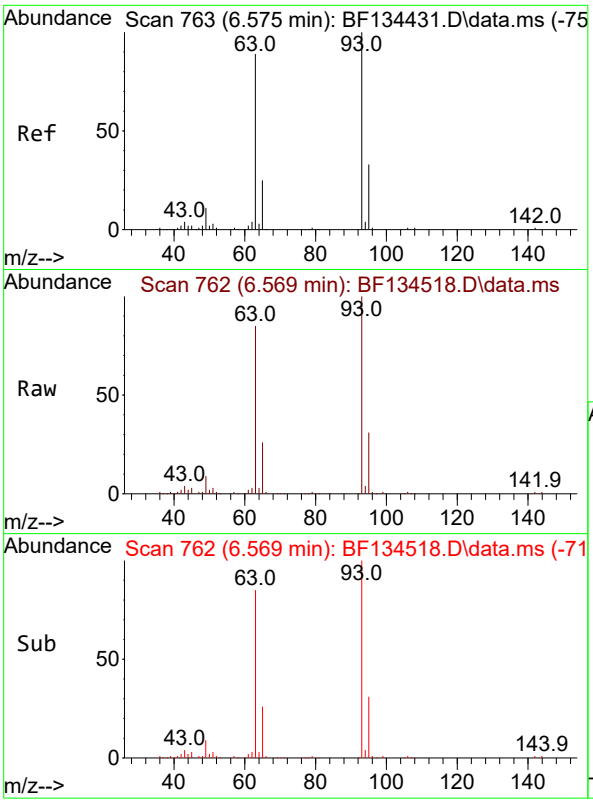


#10
Phenol
Concen: 38.349 ng
RT: 6.487 min Scan# 748
Delta R.T. 0.000 min
Lab File: BF134518.D
Acq: 28 Jul 2023 16:29

Tgt Ion: 94 Resp: 259402

Ion	Ratio	Lower	Upper
94	100		
65	35.5	17.8	57.8
66	49.9	35.2	75.2





#11
bis(2-Chloroethyl)ether
Concen: 40.805 ng
RT: 6.569 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF134518.D
Acq: 28 Jul 2023 16:29

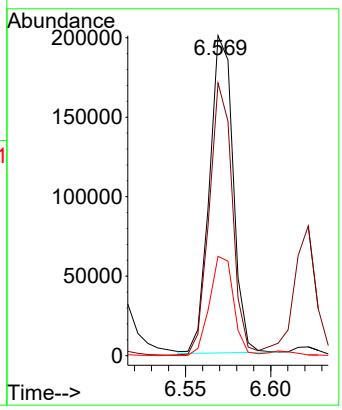
Tgt Ion: 93 Resp: 19268

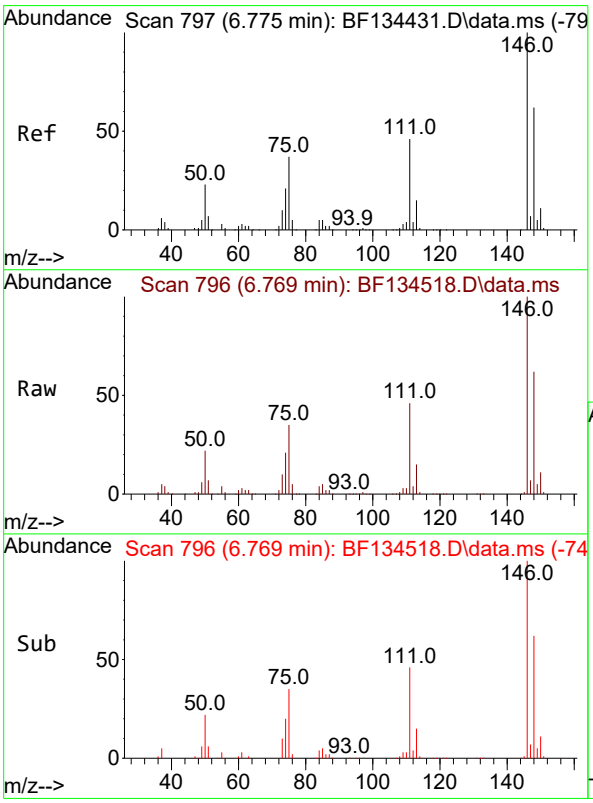
Ion	Ratio	Lower	Upper
93	100		
63	85.2	68.4	108.4
95	31.1	12.4	52.4

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/31/2023

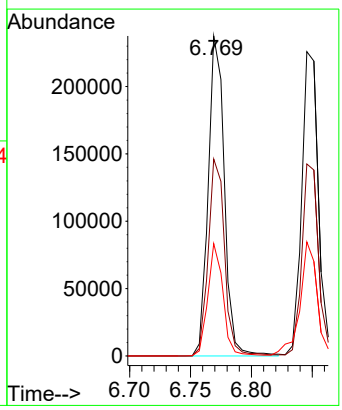


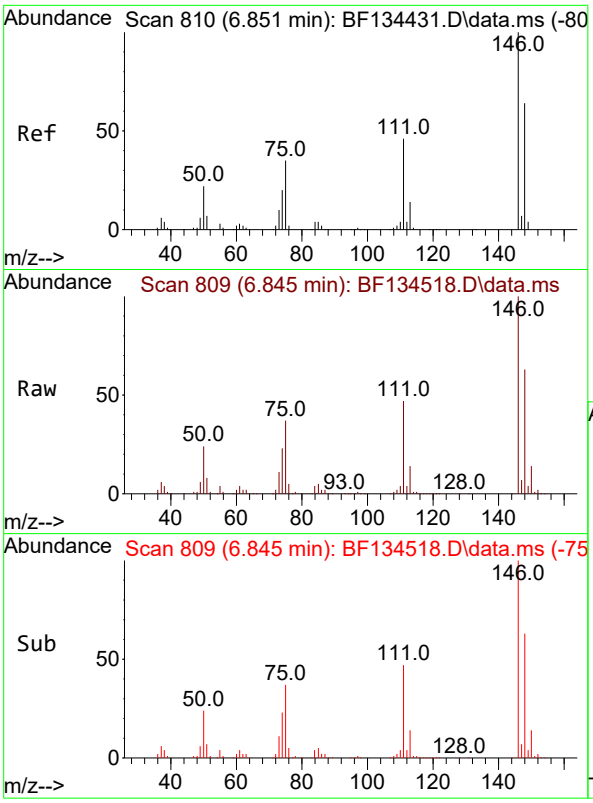


#12
1,3-Dichlorobenzene
Concen: 37.980 ng
RT: 6.769 min Scan# 796
Delta R.T. 0.000 min
Lab File: BF134518.D
Acq: 28 Jul 2023 16:29

Tgt Ion:146 Resp: 219544

Ion	Ratio	Lower	Upper
146	100		
148	61.5	49.7	74.5
75	35.1	29.5	44.3

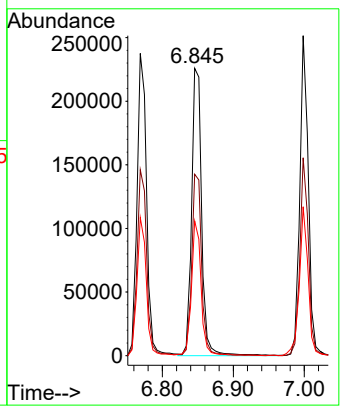




#13
1,4-Dichlorobenzene
Concen: 37.375 ng
RT: 6.845 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF134518.D
Acq: 28 Jul 2023 16:29

Tgt Ion:146 Resp: 22233

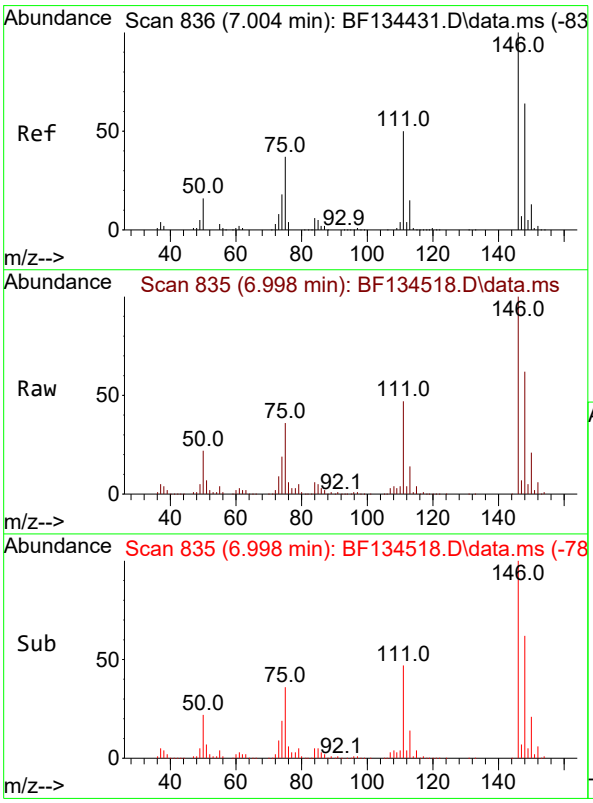
Ion	Ratio	Lower	Upper
146	100		
148	63.1	51.3	76.9
111	46.9	36.6	55.0



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

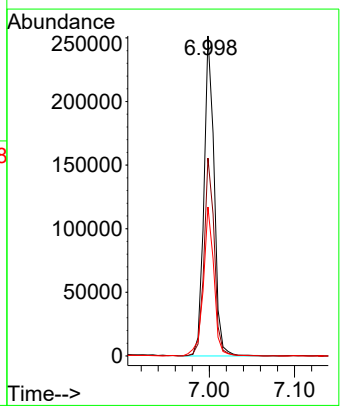
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/31/2023

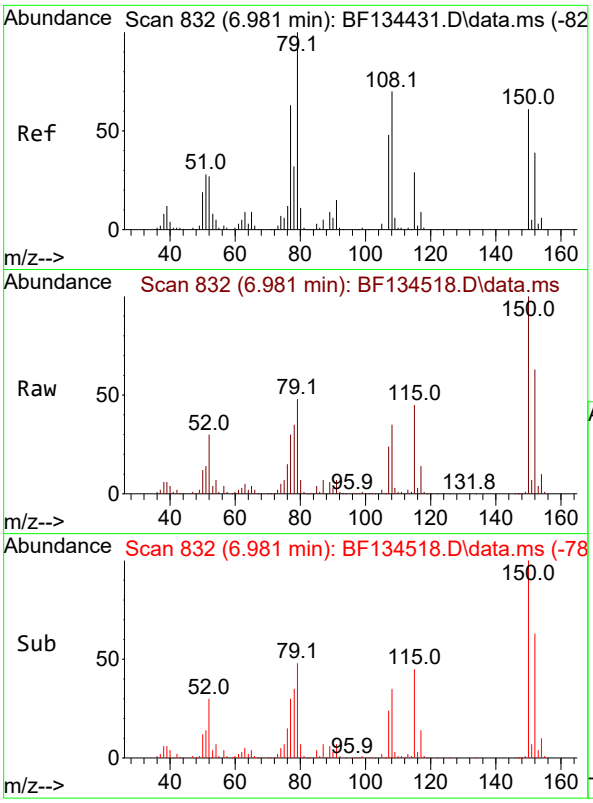


#14
1,2-Dichlorobenzene
Concen: 37.468 ng
RT: 6.998 min Scan# 835
Delta R.T. 0.000 min
Lab File: BF134518.D
Acq: 28 Jul 2023 16:29

Tgt Ion:146 Resp: 209372

Ion	Ratio	Lower	Upper
146	100		
148	61.9	51.2	76.8
111	46.5	39.9	59.9

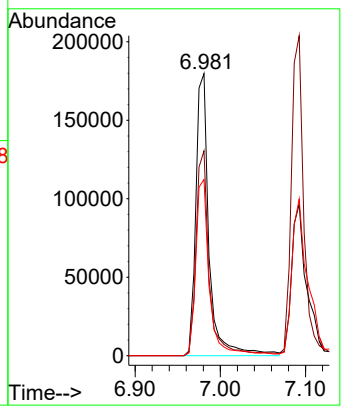




#15
Benzyl Alcohol
Concen: 38.726 ng
RT: 6.981 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF134518.D
Acq: 28 Jul 2023 16:29

Tgt Ion: 79 Resp: 19438

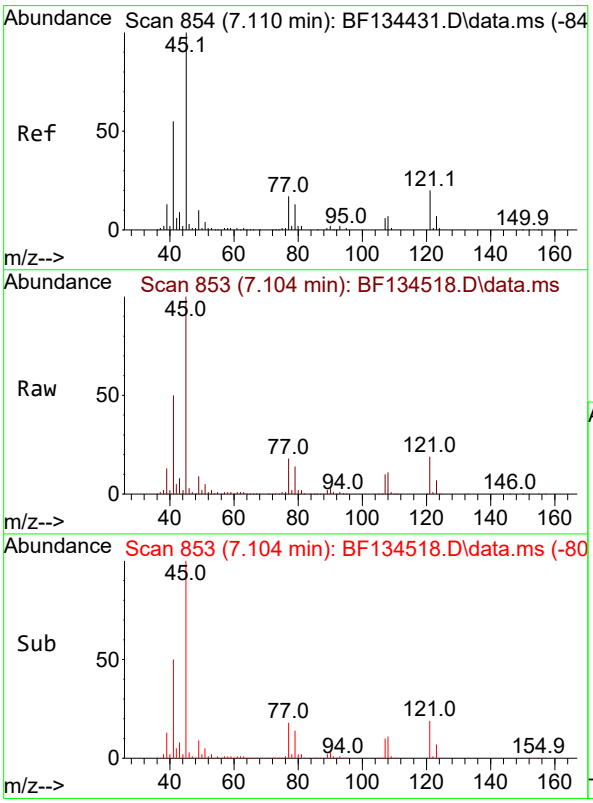
Ion	Ratio	Lower	Upper
79	100		
108	72.6	56.3	84.5
77	62.5	50.6	76.0



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

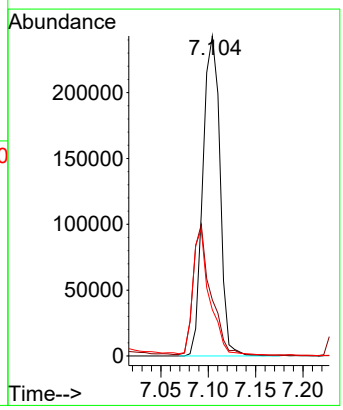
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/31/2023

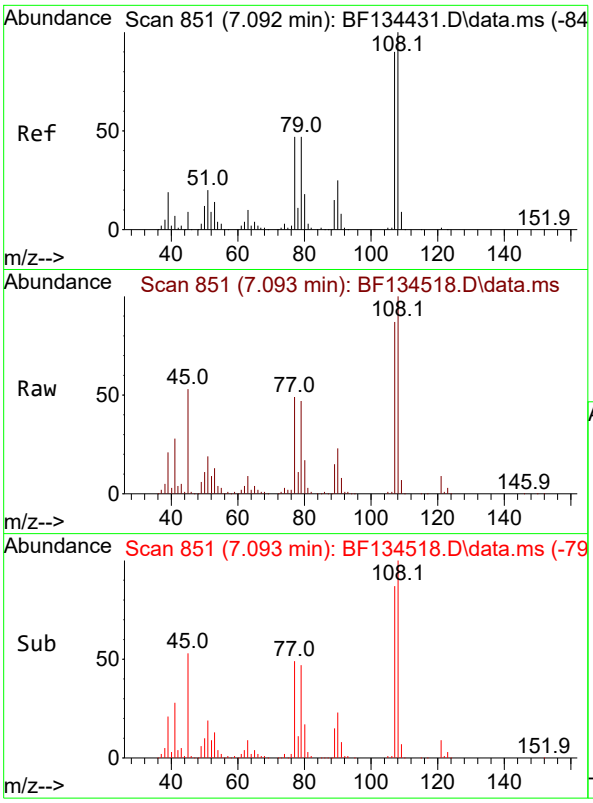


#16
2,2'-oxybis(1-Chloropropane)
Concen: 43.867 ng
RT: 7.104 min Scan# 853
Delta R.T. 0.006 min
Lab File: BF134518.D
Acq: 28 Jul 2023 16:29

Tgt Ion: 45 Resp: 305045

Ion	Ratio	Lower	Upper
45	100		
77	17.6	0.0	37.8
79	14.4	0.0	34.5

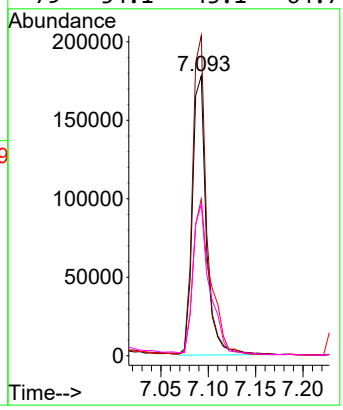




#17
2-Methylphenol
Concen: 37.899 ng
RT: 7.093 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF134518.D
Acq: 28 Jul 2023 16:29

Tgt Ion:107 Resp: 18169

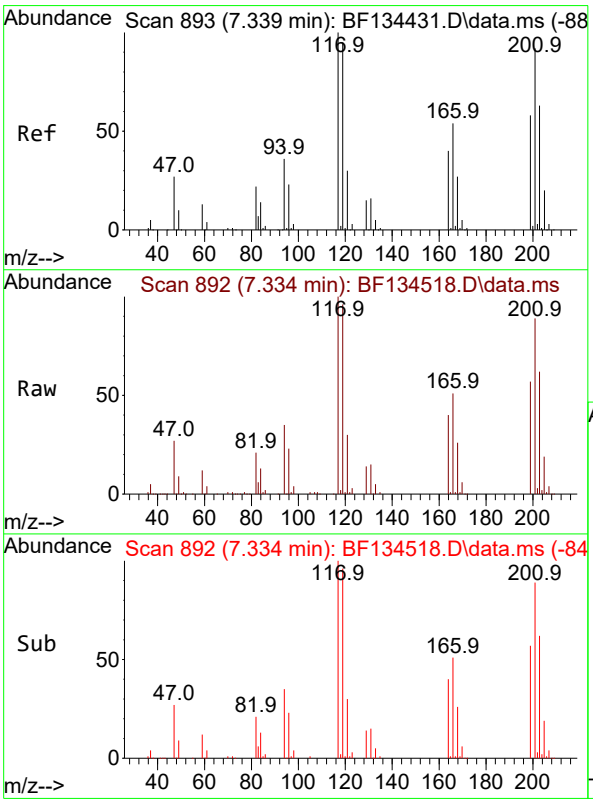
Ion	Ratio	Lower	Upper
107	100		
108	114.4	89.4	134.2
77	56.0	42.4	63.6
79	54.1	43.1	64.7



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

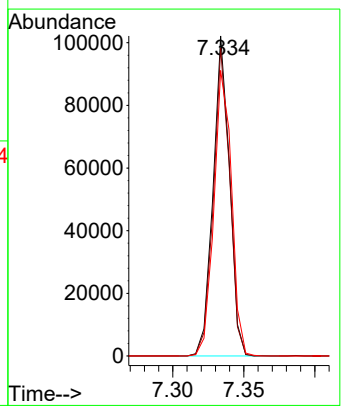
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/31/2023

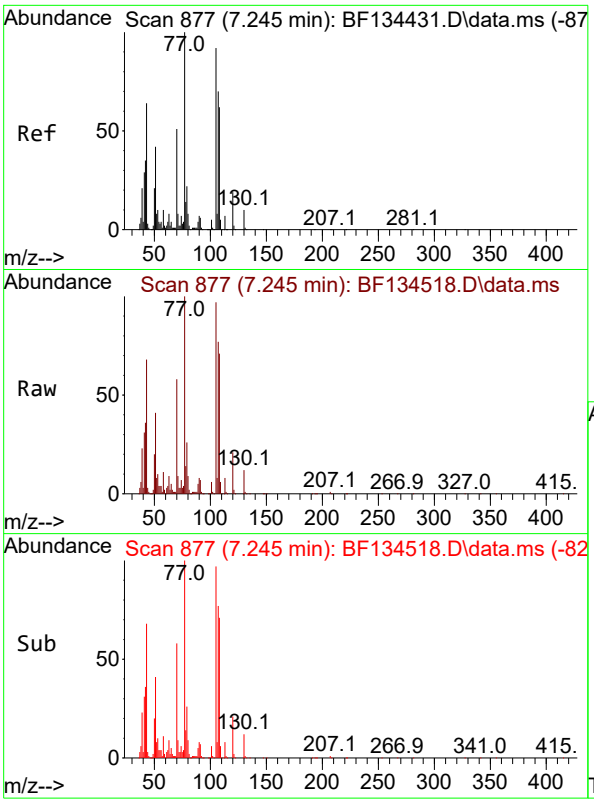


#18
Hexachloroethane
Concen: 36.142 ng
RT: 7.334 min Scan# 892
Delta R.T. 0.006 min
Lab File: BF134518.D
Acq: 28 Jul 2023 16:29

Tgt Ion:117 Resp: 82600

Ion	Ratio	Lower	Upper
117	100		
119	96.2	75.8	113.8
201	89.2	73.6	110.4

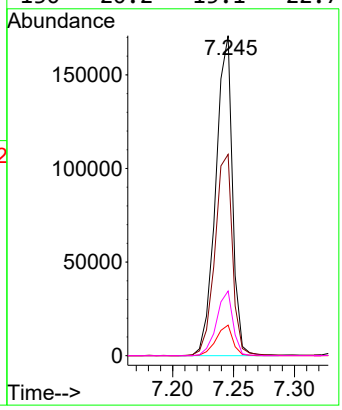




#19
n-Nitroso-di-n-propylamine
Concen: 40.461 ng
RT: 7.245 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF134518.D
Acq: 28 Jul 2023 16:29

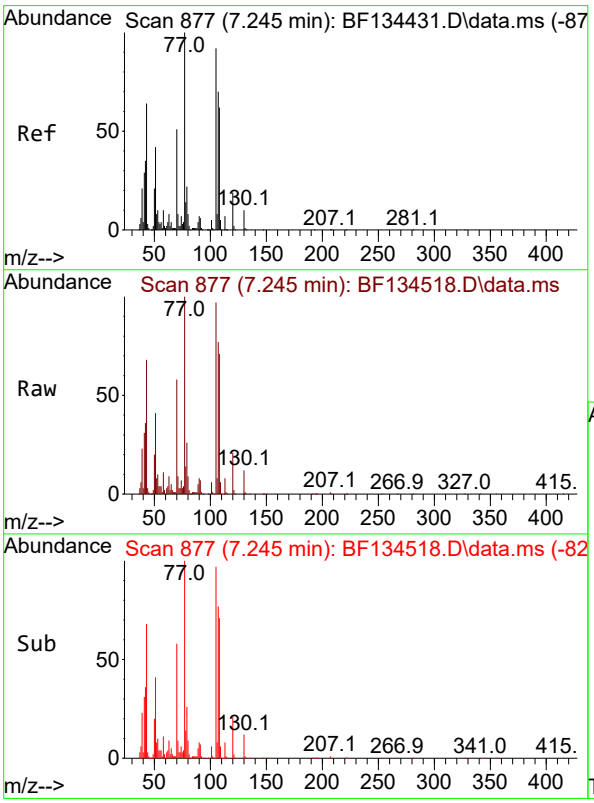
Tgt Ion: 70 Resp: 16375

Ion	Ratio	Lower	Upper
70	100		
42	62.9	54.7	82.1
101	9.5	8.2	12.2
130	20.2	15.1	22.7



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

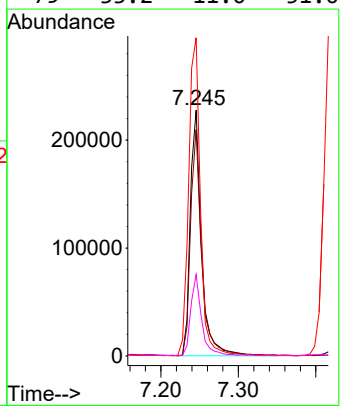
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/31/2023

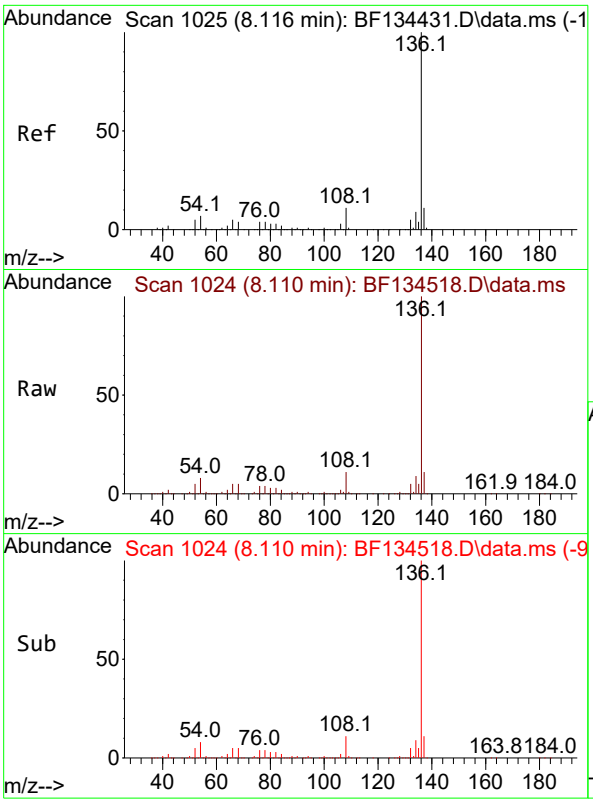


#20
3+4-Methylphenols
Concen: 37.553 ng
RT: 7.245 min Scan# 877
Delta R.T. 0.006 min
Lab File: BF134518.D
Acq: 28 Jul 2023 16:29

Tgt Ion:107 Resp: 230505

Ion	Ratio	Lower	Upper
107	100		
108	92.1	68.1	108.1
77	129.5	122.1	162.1
79	33.2	11.0	51.0

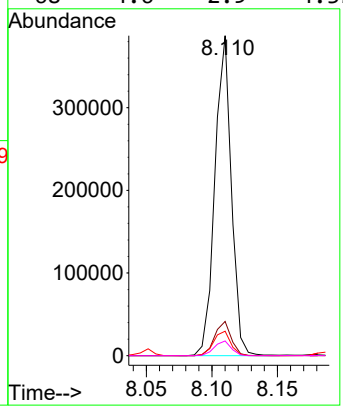




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.110 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF134518.D
Acq: 28 Jul 2023 16:29

Tgt Ion:136 Resp: 33747

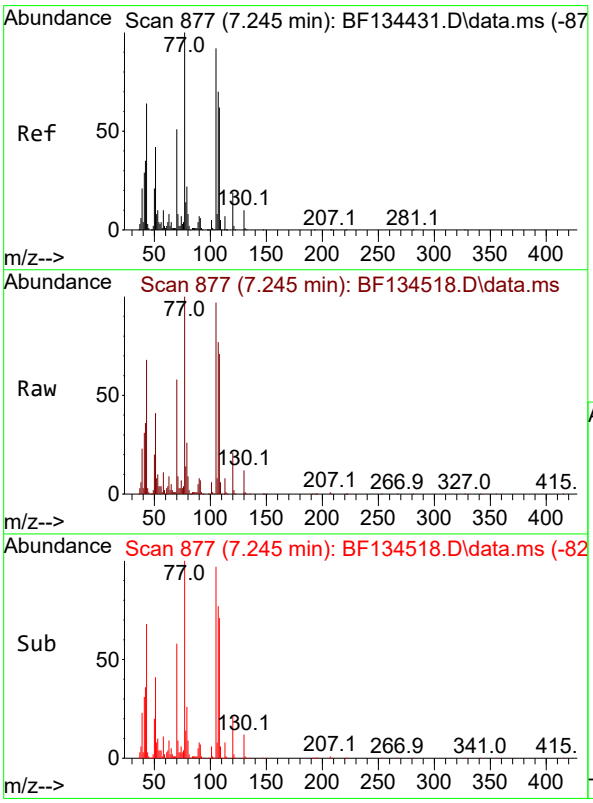
Ion	Ratio	Lower	Upper
136	100		
137	10.7	8.4	12.6
54	7.7	5.2	7.8
68	4.6	2.9	4.3#



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

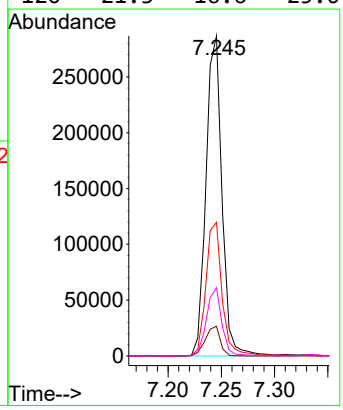
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/31/2023

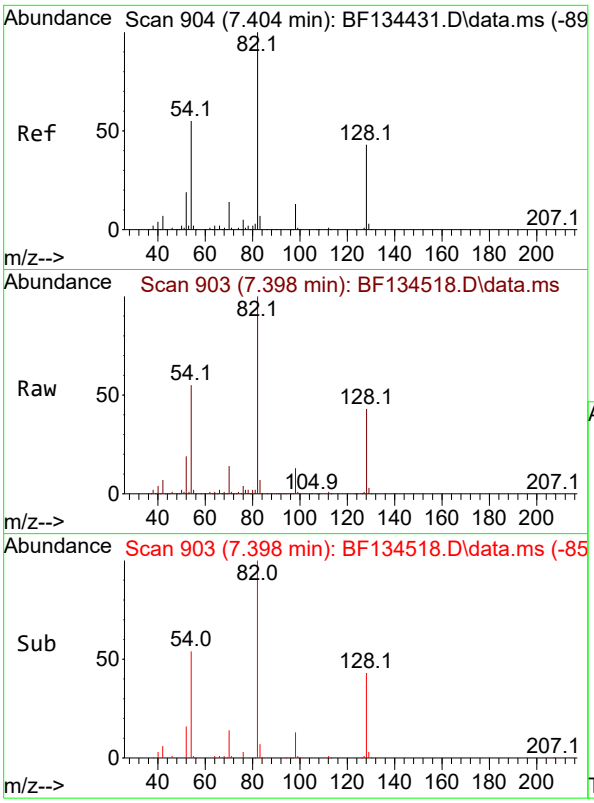


#22
Acetophenone
Concen: 35.692 ng
RT: 7.245 min Scan# 877
Delta R.T. 0.006 min
Lab File: BF134518.D
Acq: 28 Jul 2023 16:29

Tgt Ion:105 Resp: 299568

Ion	Ratio	Lower	Upper
105	100		
71	9.3	7.4	11.0
51	41.8	36.4	54.6
120	21.3	16.6	25.0

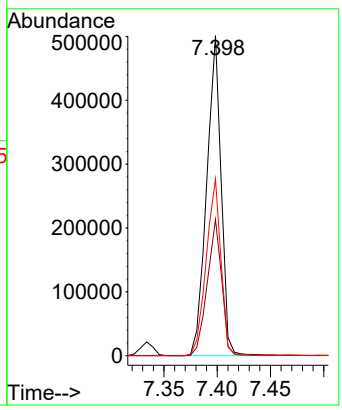




#23
Nitrobenzene-d5
Concen: 71.304 ng
RT: 7.398 min Scan# 9
Delta R.T. 0.006 min
Lab File: BF134518.D
Acq: 28 Jul 2023 16:29

Tgt Ion: 82 Resp: 47561

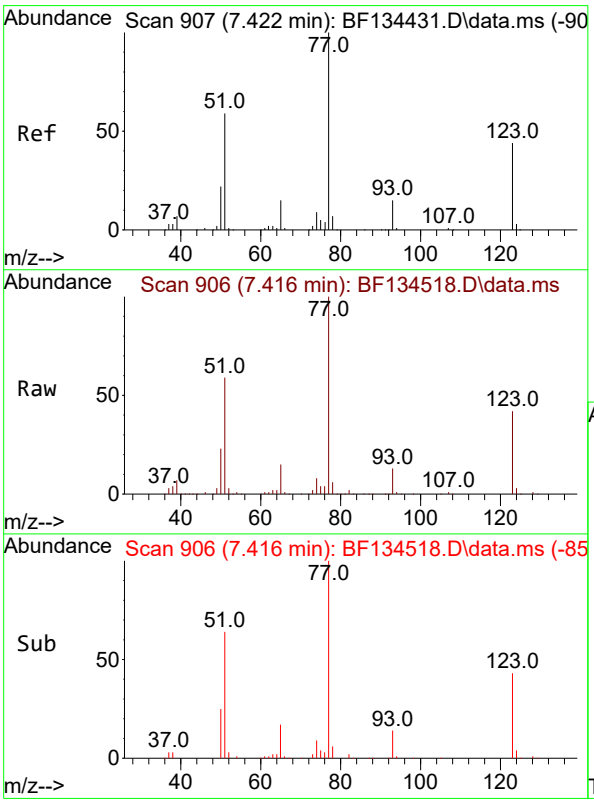
Ion	Ratio	Lower	Upper
82	100		
128	42.6	34.3	51.5
54	55.2	43.8	65.6



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

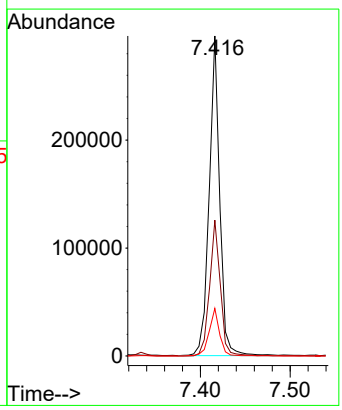
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/31/2023

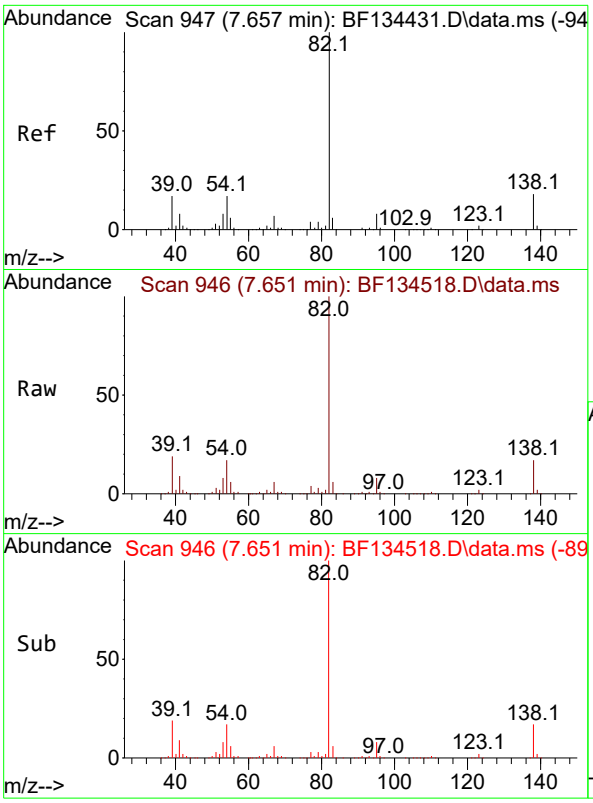


#24
Nitrobenzene
Concen: 36.373 ng
RT: 7.416 min Scan# 906
Delta R.T. 0.006 min
Lab File: BF134518.D
Acq: 28 Jul 2023 16:29

Tgt Ion: 77 Resp: 241289

Ion	Ratio	Lower	Upper
77	100		
123	42.5	35.5	53.3
65	14.8	11.9	17.9

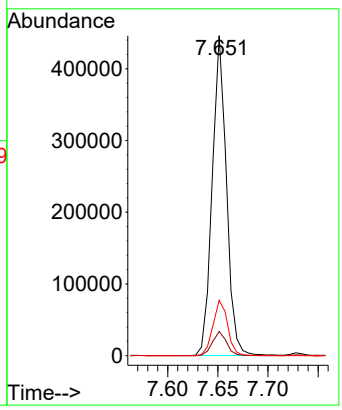




#25
Isophorone
Concen: 39.644 ng
RT: 7.651 min Scan# 94
Delta R.T. 0.000 min
Lab File: BF134518.D
Acq: 28 Jul 2023 16:29

Tgt Ion: 82 Resp: 44070

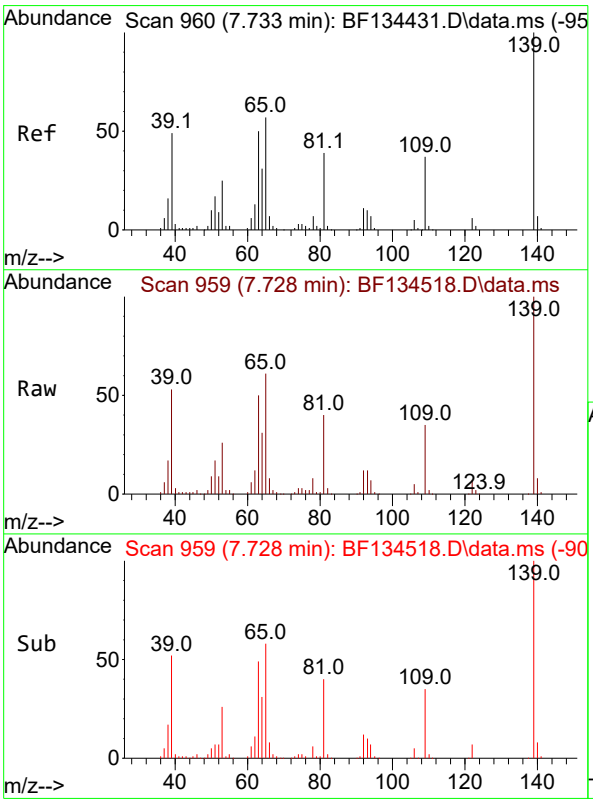
Ion	Ratio	Lower	Upper
82	100		
95	7.5	6.0	9.0
138	17.3	14.6	22.0



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

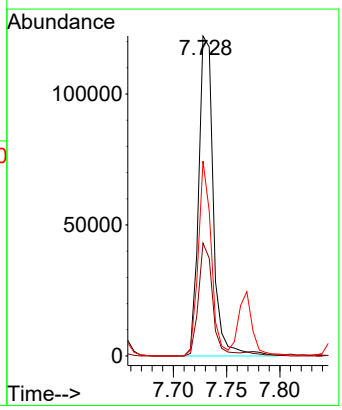
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/31/2023

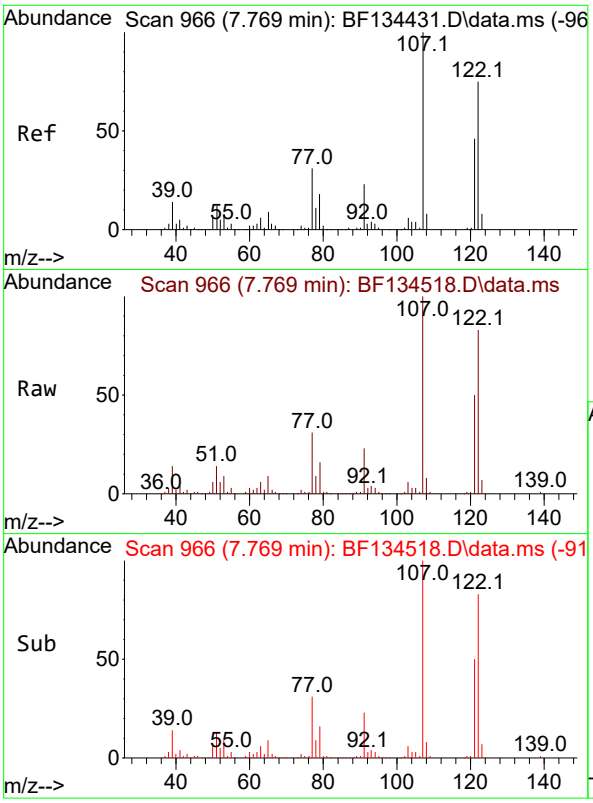


#26
2-Nitrophenol
Concen: 38.572 ng
RT: 7.728 min Scan# 959
Delta R.T. 0.000 min
Lab File: BF134518.D
Acq: 28 Jul 2023 16:29

Tgt Ion:139 Resp: 117685

Ion	Ratio	Lower	Upper
139	100		
109	35.3	29.8	44.6
65	60.9	45.4	68.2

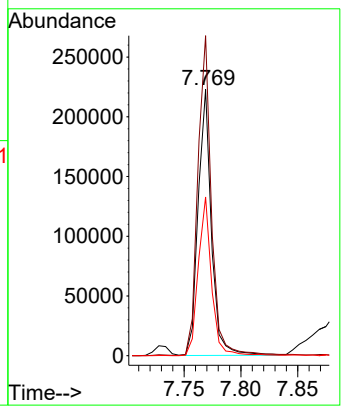




#27
2,4-Dimethylphenol
Concen: 37.721 ng
RT: 7.769 min Scan# 9
Delta R.T. 0.006 min
Lab File: BF134518.D
Acq: 28 Jul 2023 16:29

Tgt Ion:122 Resp: 18162

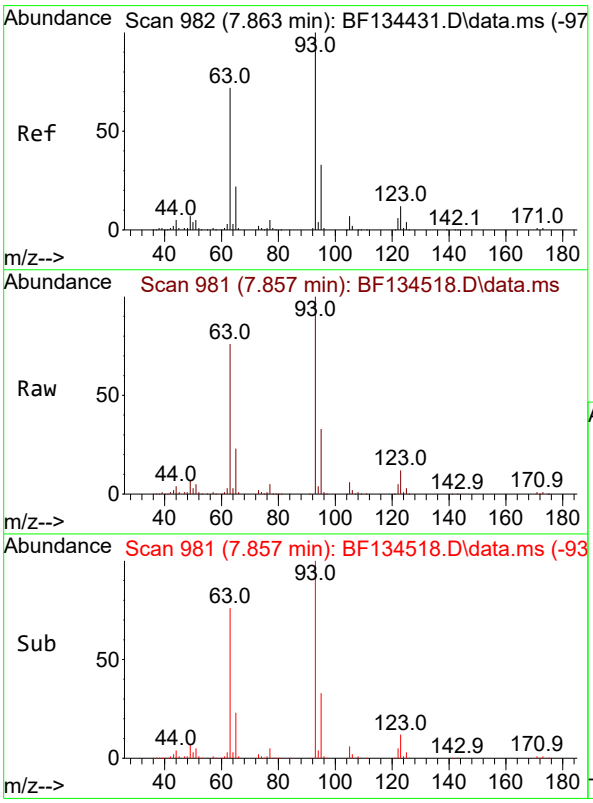
Ion	Ratio	Lower	Upper
122	100		
107	120.2	106.7	160.1
121	59.6	49.0	73.6



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

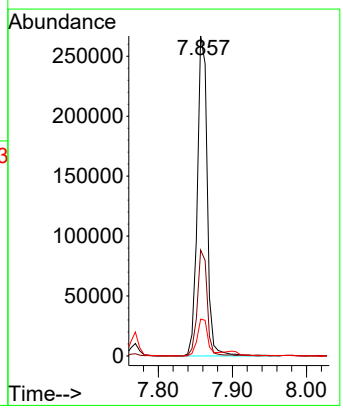
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/31/2023

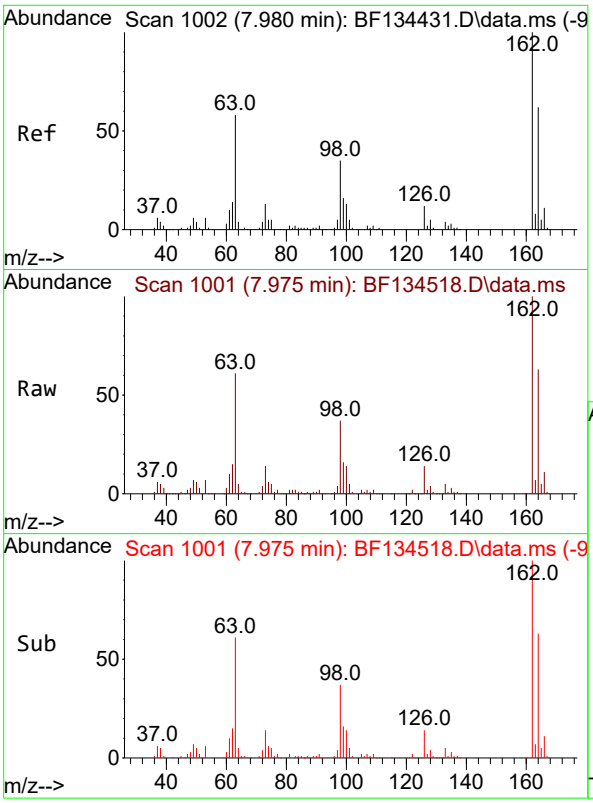


#28
bis(2-Chloroethoxy)methane
Concen: 40.105 ng
RT: 7.857 min Scan# 981
Delta R.T. 0.000 min
Lab File: BF134518.D
Acq: 28 Jul 2023 16:29

Tgt Ion: 93 Resp: 248161

Ion	Ratio	Lower	Upper
93	100		
95	33.1	26.5	39.7
123	11.5	9.6	14.4

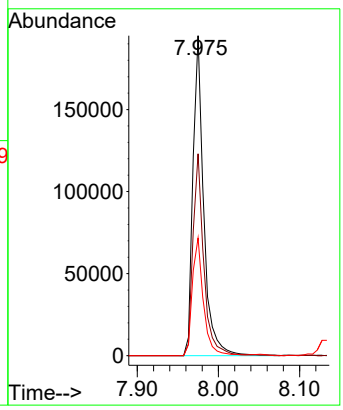




#29
2,4-Dichlorophenol
Concen: 37.541 ng
RT: 7.975 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF134518.D
Acq: 28 Jul 2023 16:29

Tgt Ion:162 Resp: 18069

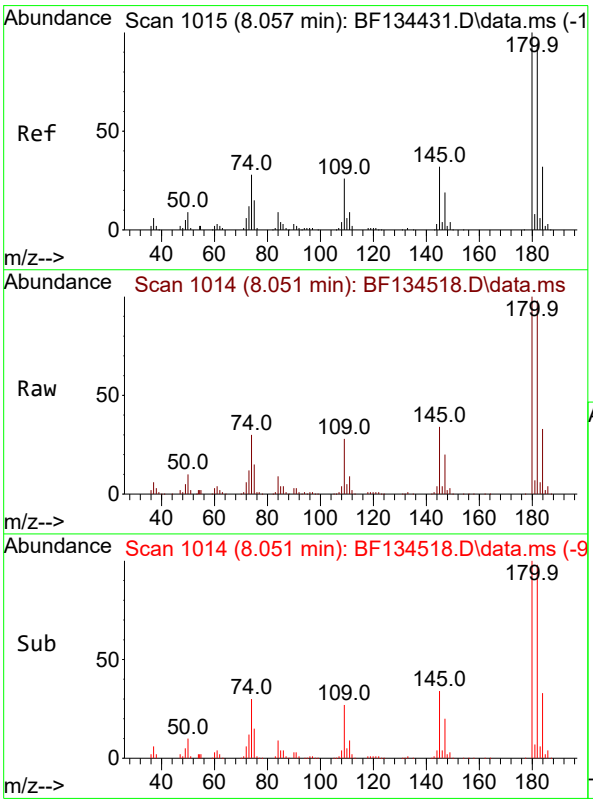
Ion	Ratio	Lower	Upper
162	100		
164	63.1	42.2	82.2
98	36.8	15.5	55.5



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

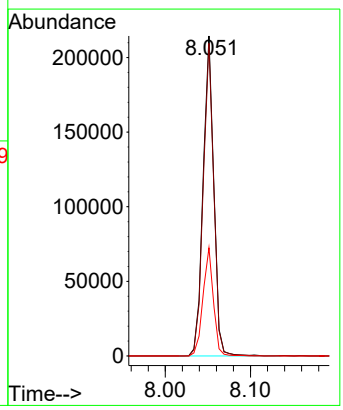
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/31/2023

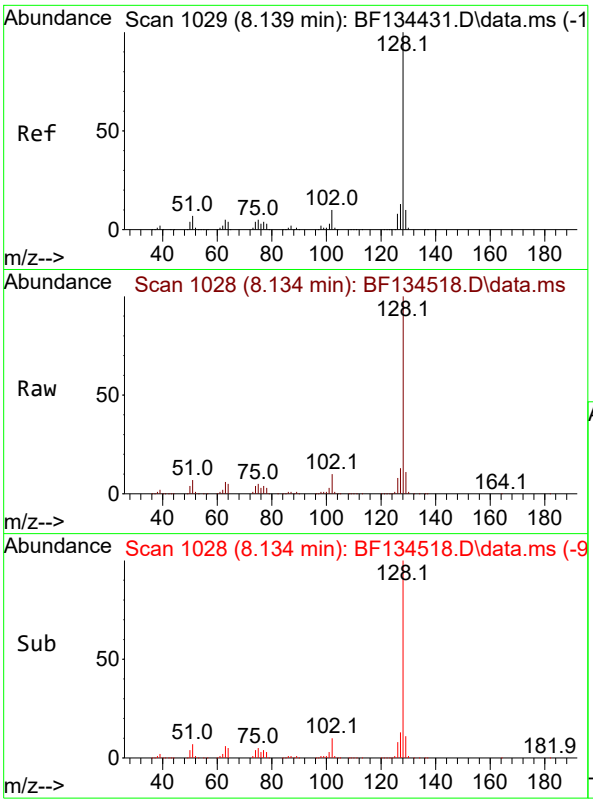


#30
1,2,4-Trichlorobenzene
Concen: 35.987 ng
RT: 8.051 min Scan# 1014
Delta R.T. 0.006 min
Lab File: BF134518.D
Acq: 28 Jul 2023 16:29

Tgt Ion:180 Resp: 186843

Ion	Ratio	Lower	Upper
180	100		
182	97.7	75.0	112.6
145	33.8	25.5	38.3

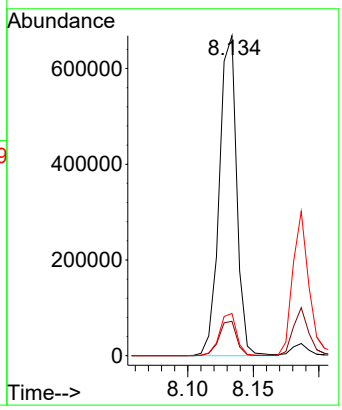




#31
Naphthalene
Concen: 36.746 ng
RT: 8.134 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF134518.D
Acq: 28 Jul 2023 16:29

Tgt Ion:128 Resp: 61718

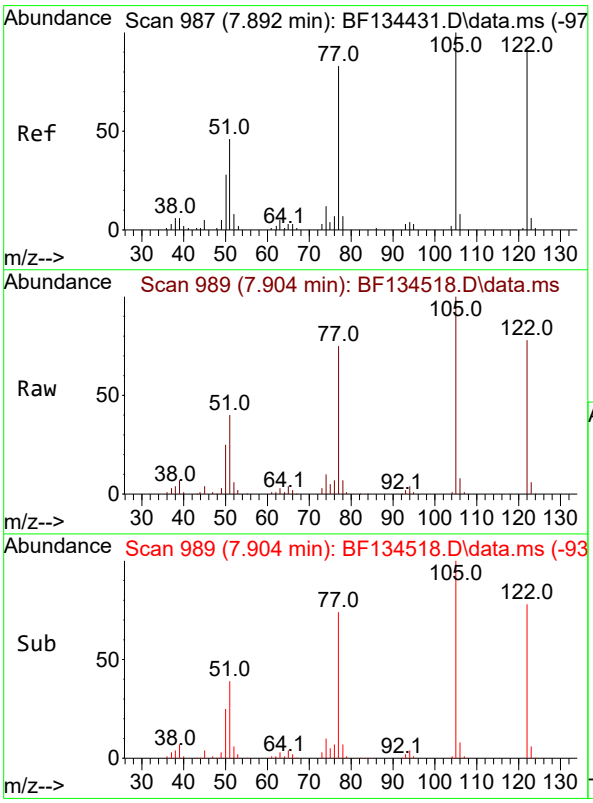
Ion	Ratio	Lower	Upper
128	100		
129	10.7	8.4	12.6
127	13.2	10.7	16.1



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

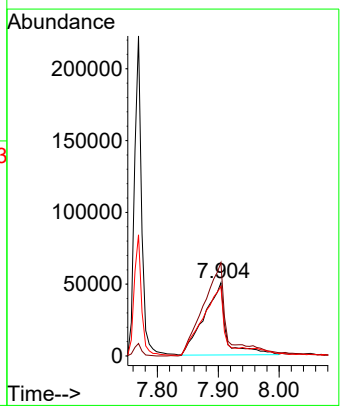
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/31/2023

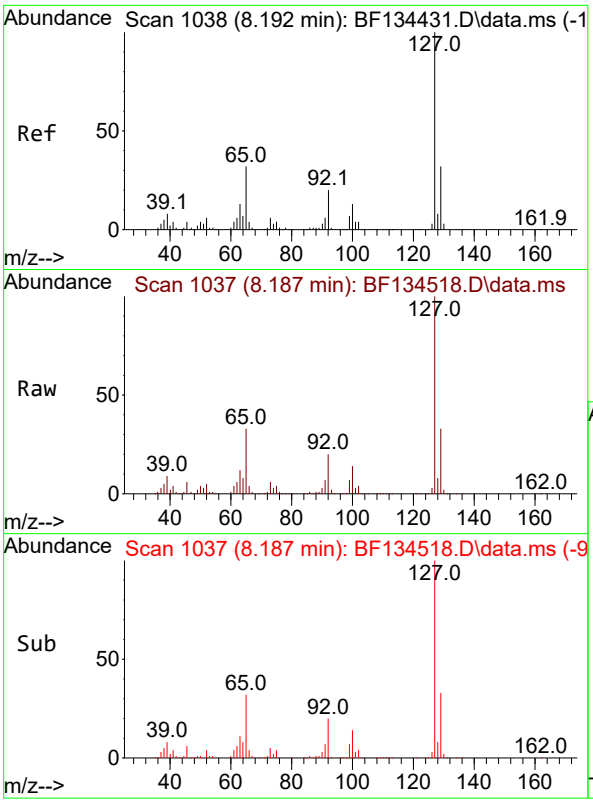


#32
Benzoic acid
Concen: 39.686 ng
RT: 7.904 min Scan# 989
Delta R.T. -0.006 min
Lab File: BF134518.D
Acq: 28 Jul 2023 16:29

Tgt Ion:122 Resp: 127637

Ion	Ratio	Lower	Upper
122	100		
105	127.6	87.5	127.5#
77	95.1	71.4	111.4

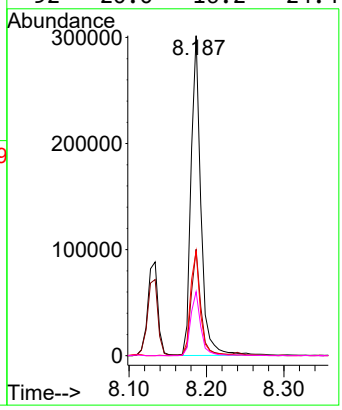




#33
4-Chloroaniline
Concen: 38.530 ng
RT: 8.187 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF134518.D
Acq: 28 Jul 2023 16:29

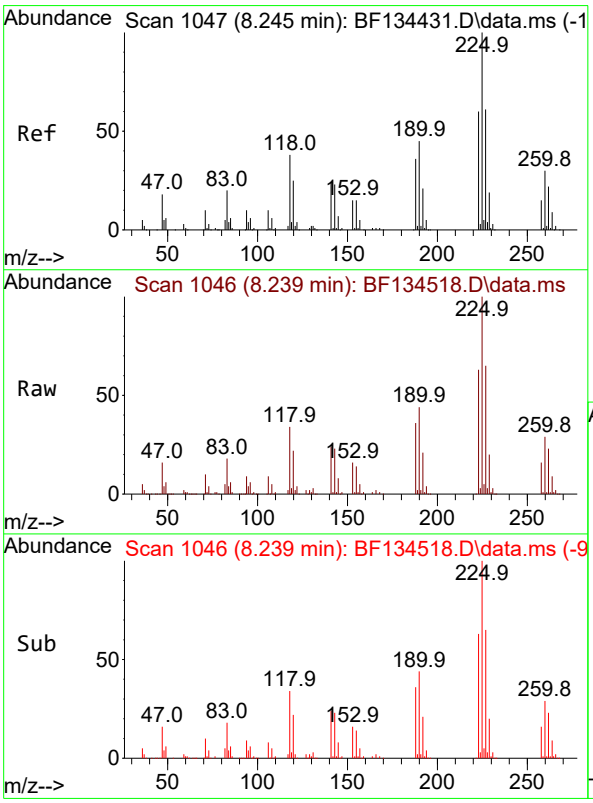
Tgt Ion:127 Resp: 26749

Ion	Ratio	Lower	Upper
127	100		
129	33.3	25.6	38.4
65	32.7	25.4	38.0
92	20.0	16.2	24.4



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

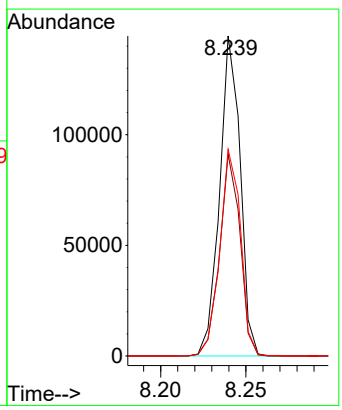
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/31/2023

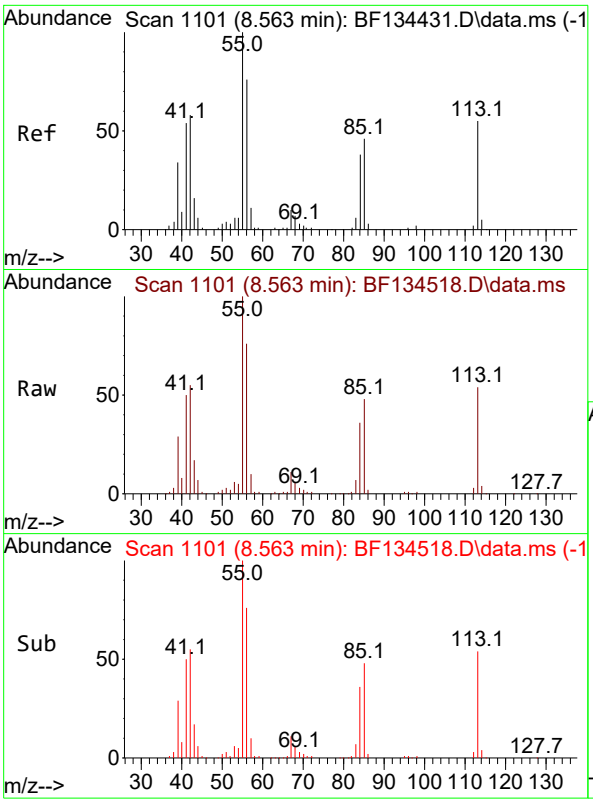


#34
Hexachlorobutadiene
Concen: 34.937 ng
RT: 8.239 min Scan# 1046
Delta R.T. 0.000 min
Lab File: BF134518.D
Acq: 28 Jul 2023 16:29

Tgt Ion:225 Resp: 121516

Ion	Ratio	Lower	Upper
225	100		
223	63.0	48.2	72.4
227	64.6	48.5	72.7

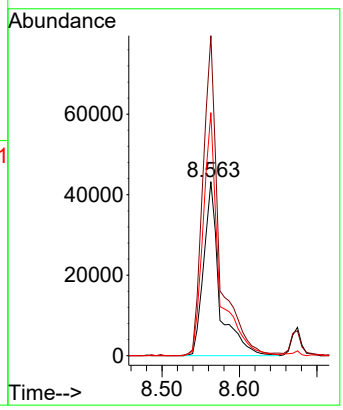




#35
Caprolactam
Concen: 42.048 ng
RT: 8.563 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134518.D
Acq: 28 Jul 2023 16:29

Tgt Ion:113 Resp: 6188

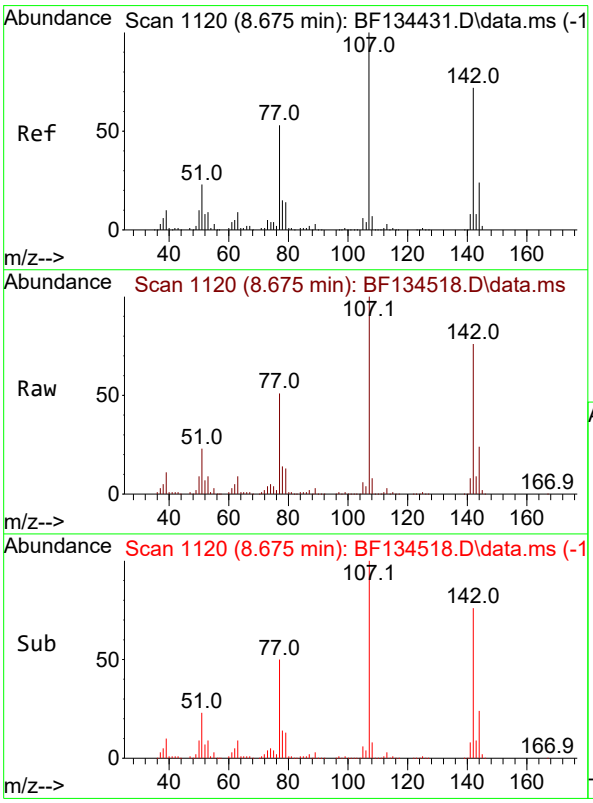
Ion	Ratio	Lower	Upper
113	100		
55	183.8	161.5	201.5
56	139.6	117.8	157.8



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

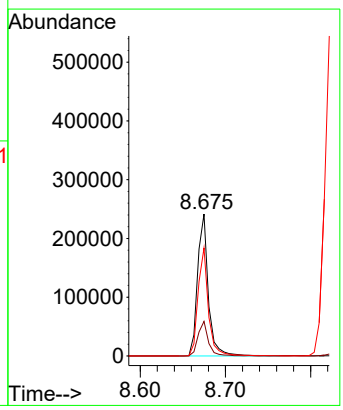
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/31/2023

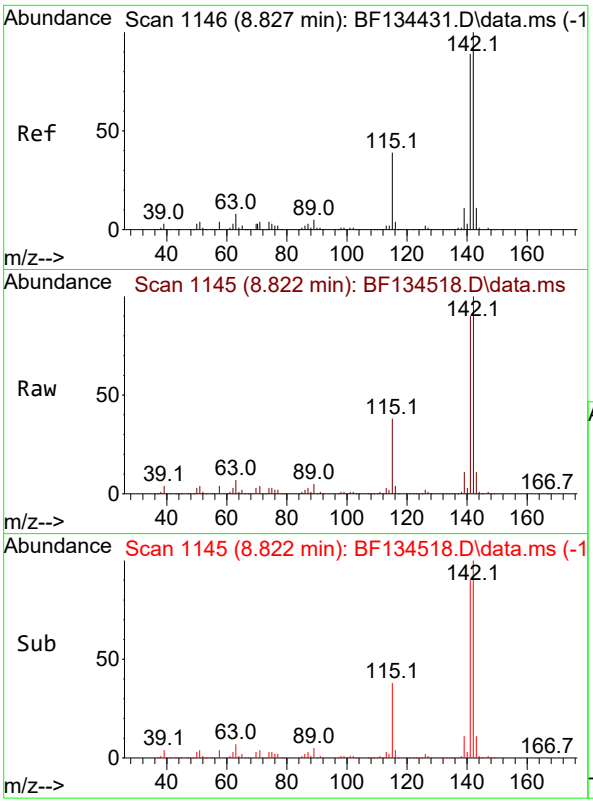


#36
4-Chloro-3-methylphenol
Concen: 38.295 ng
RT: 8.675 min Scan# 1120
Delta R.T. 0.006 min
Lab File: BF134518.D
Acq: 28 Jul 2023 16:29

Tgt Ion:107 Resp: 212682

Ion	Ratio	Lower	Upper
107	100		
144	24.4	19.6	29.4
142	76.1	57.7	86.5





#37
2-Methylnaphthalene
Concen: 37.952 ng
RT: 8.822 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF134518.D
Acq: 28 Jul 2023 16:29

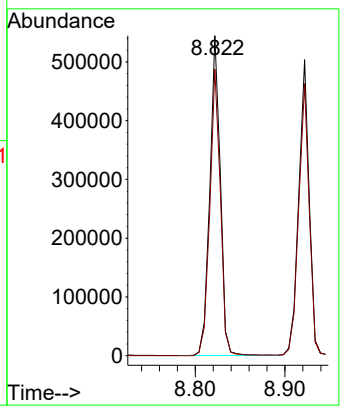
Tgt Ion:142 Resp: 44290

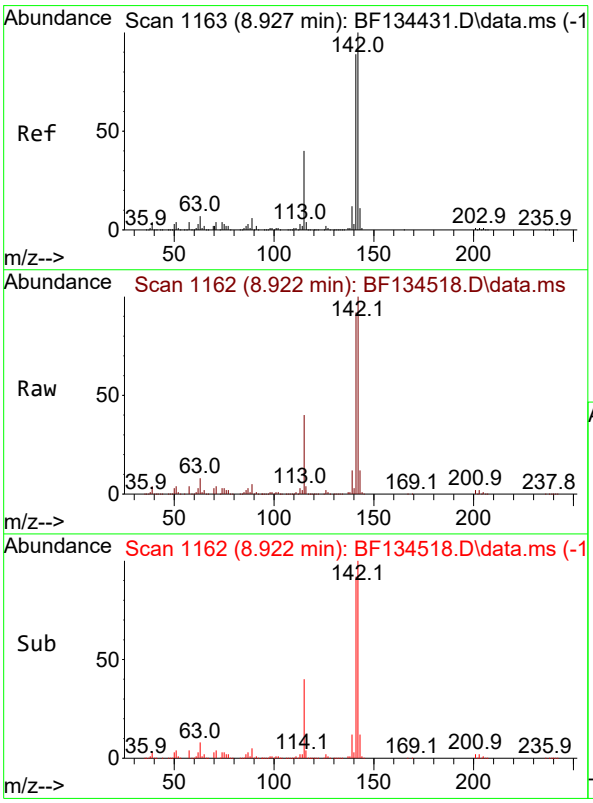
Ion	Ratio	Lower	Upper
142	100		
141	89.5	70.8	106.2

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/31/2023

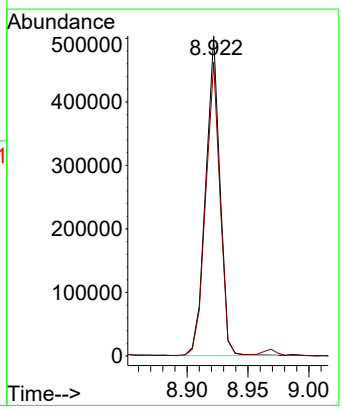


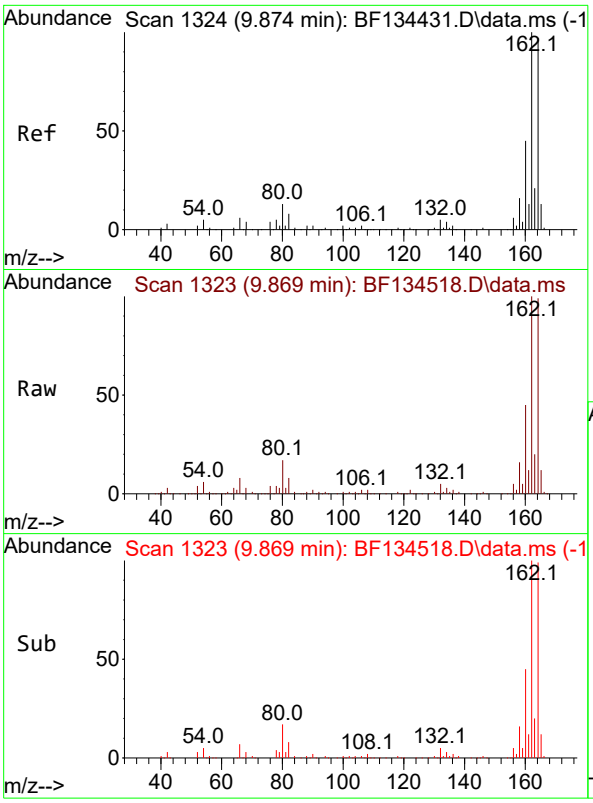


#38
1-Methylnaphthalene
Concen: 37.851 ng
RT: 8.922 min Scan# 1162
Delta R.T. 0.006 min
Lab File: BF134518.D
Acq: 28 Jul 2023 16:29

Tgt Ion:142 Resp: 409784

Ion	Ratio	Lower	Upper
142	100		
141	91.9	71.4	107.2

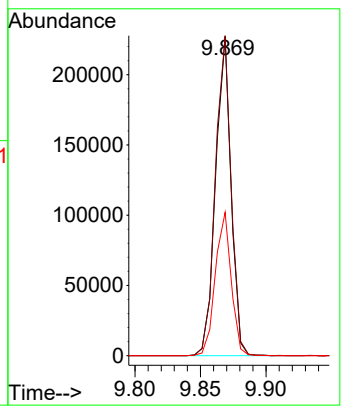




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.869 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF134518.D
Acq: 28 Jul 2023 16:29

Tgt Ion:164 Resp: 18554

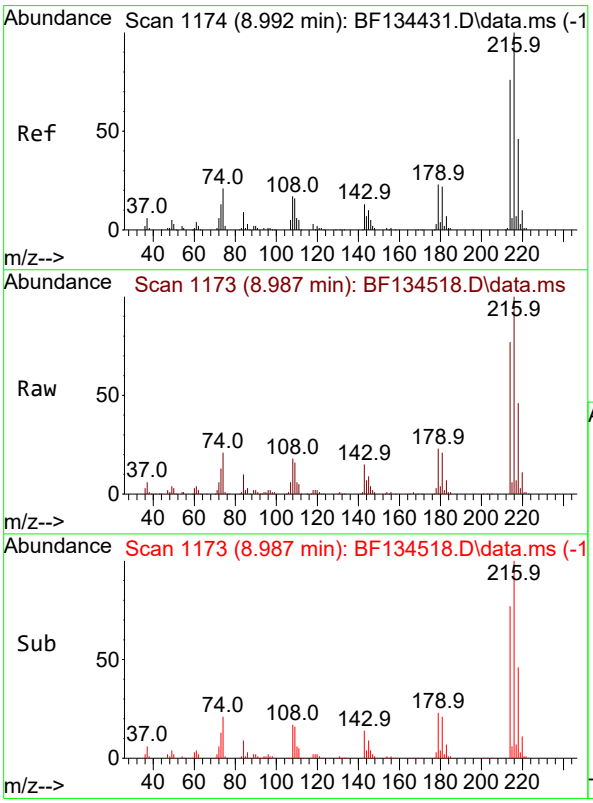
Ion	Ratio	Lower	Upper
164	100		
162	100.5	82.6	123.8
160	45.0	37.2	55.8



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

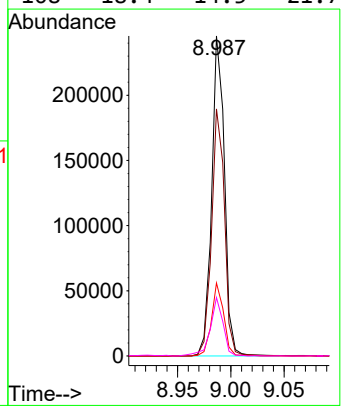
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/31/2023

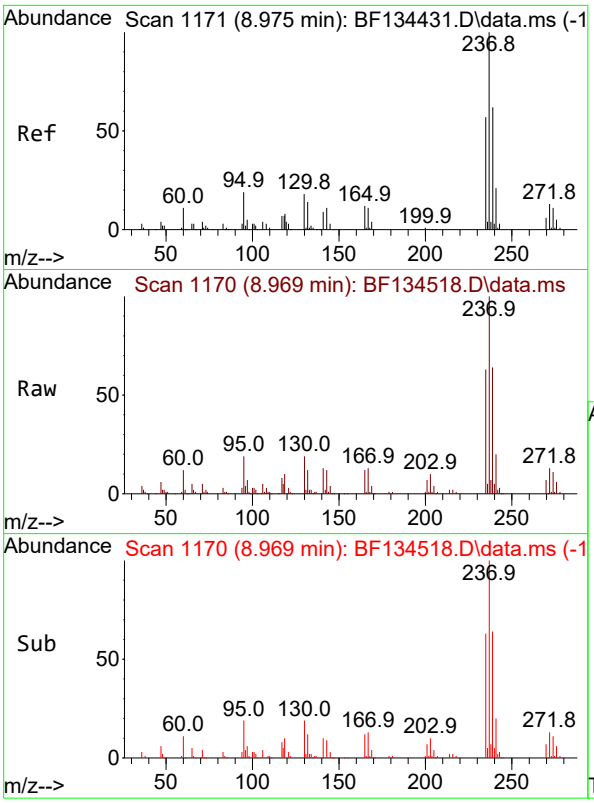


#40
1,2,4,5-Tetrachlorobenzene
Concen: 34.868 ng
RT: 8.987 min Scan# 1173
Delta R.T. 0.000 min
Lab File: BF134518.D
Acq: 28 Jul 2023 16:29

Tgt Ion:216 Resp: 205024

Ion	Ratio	Lower	Upper
216	100		
214	78.2	62.3	93.5
179	21.8	17.4	26.0
108	18.4	14.5	21.7

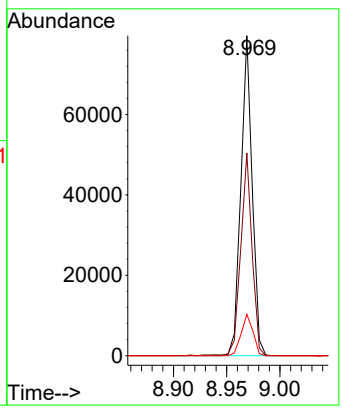




#41
Hexachlorocyclopentadiene
Concen: 39.834 ng
RT: 8.969 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF134518.D
Acq: 28 Jul 2023 16:29

Tgt Ion:237 Resp: 5904

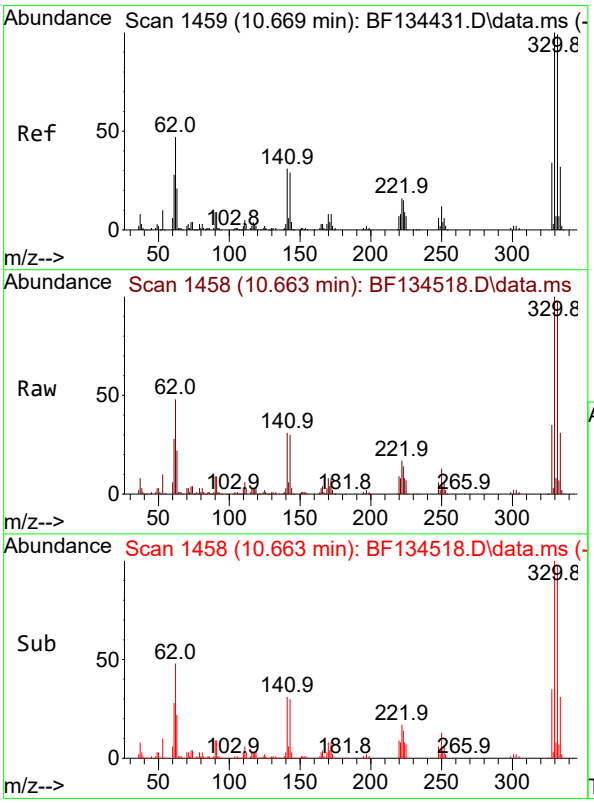
Ion	Ratio	Lower	Upper
237	100		
235	63.3	37.0	77.0
272	12.9	0.0	32.7



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

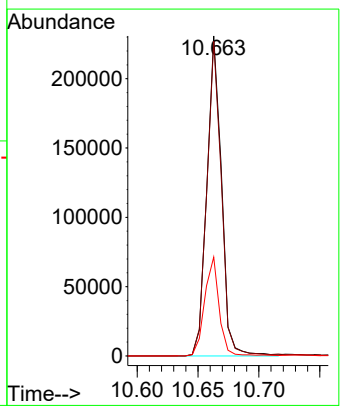
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/31/2023

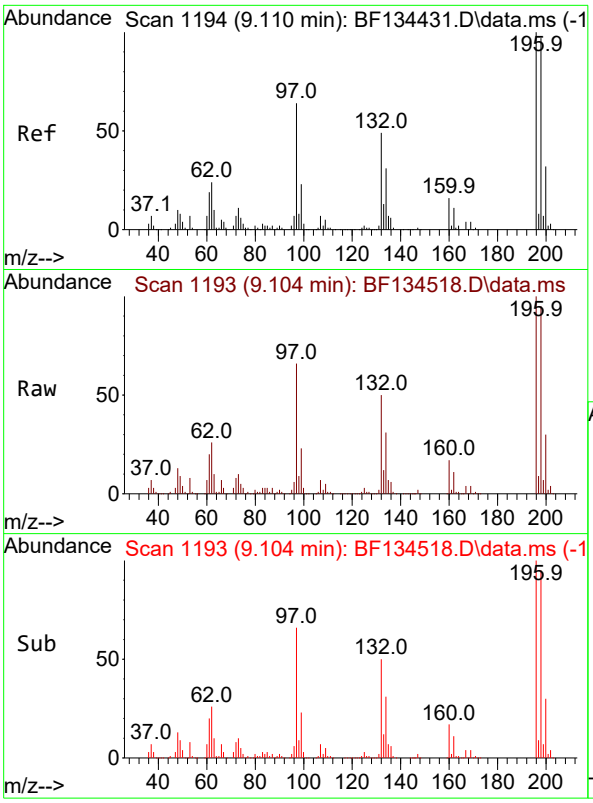


#42
2,4,6-Tribromophenol
Concen: 72.945 ng
RT: 10.663 min Scan# 1458
Delta R.T. 0.000 min
Lab File: BF134518.D
Acq: 28 Jul 2023 16:29

Tgt Ion:330 Resp: 192307

Ion	Ratio	Lower	Upper
330	100		
332	99.1	78.8	118.2
141	30.9	25.4	38.2

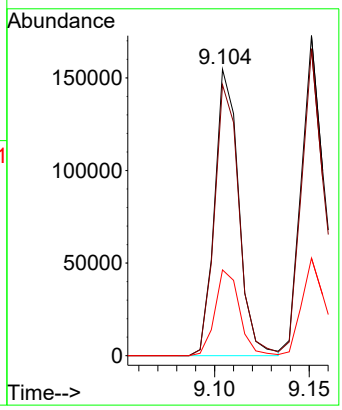




#43
2,4,6-Trichlorophenol
Concen: 36.314 ng
RT: 9.104 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134518.D
Acq: 28 Jul 2023 16:29

Tgt Ion:196 Resp: 13698

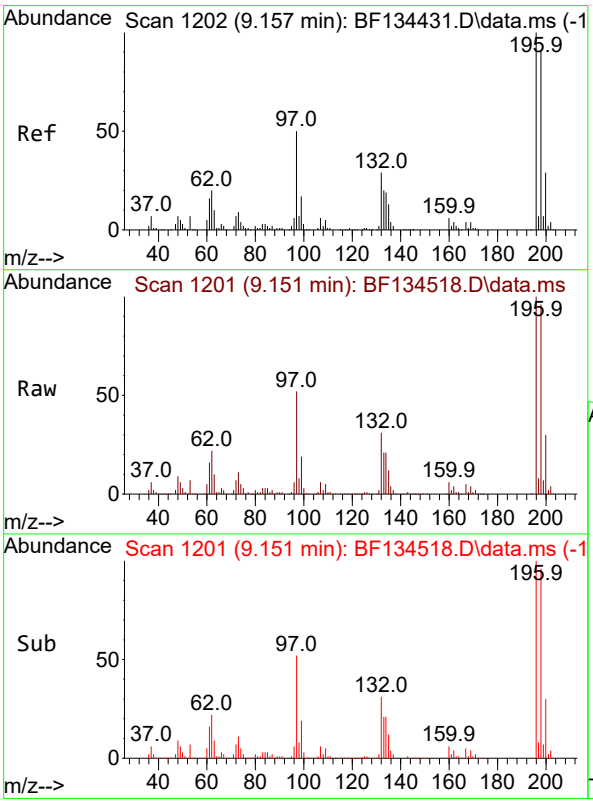
Ion	Ratio	Lower	Upper
196	100		
198	94.6	77.4	116.2
200	29.9	25.4	38.2



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

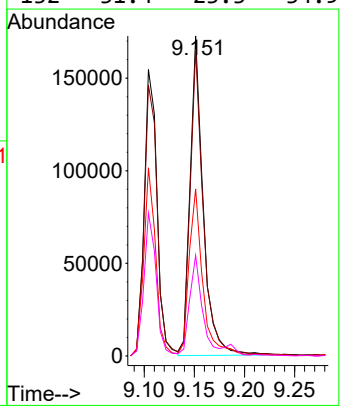
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/31/2023

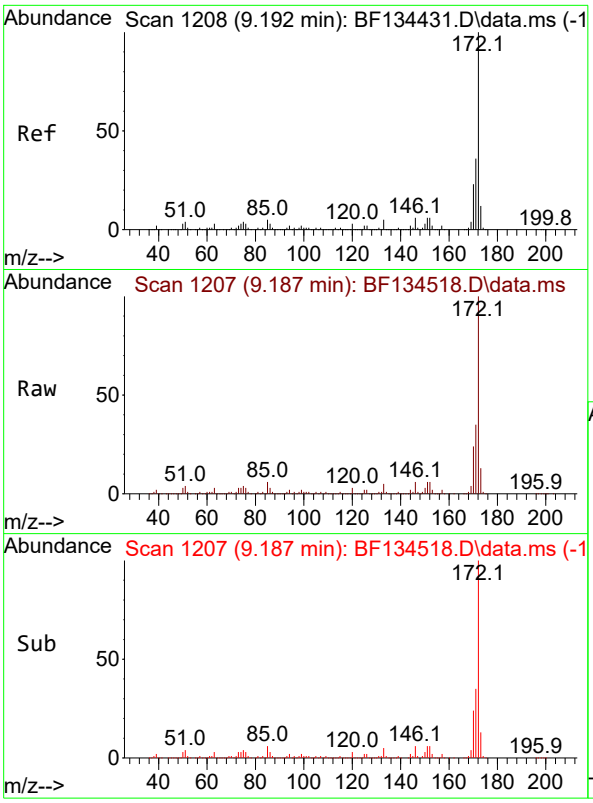


#44
2,4,5-Trichlorophenol
Concen: 35.820 ng
RT: 9.151 min Scan# 1201
Delta R.T. 0.006 min
Lab File: BF134518.D
Acq: 28 Jul 2023 16:29

Tgt Ion:196 Resp: 157425

Ion	Ratio	Lower	Upper
196	100		
198	95.9	73.0	109.4
97	52.2	40.8	61.2
132	31.4	23.3	34.9

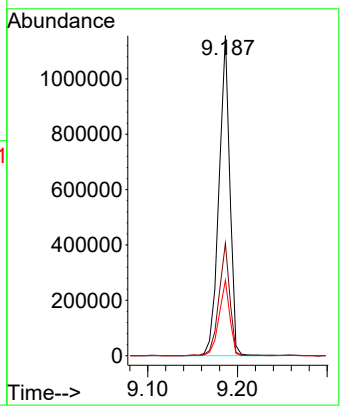




#45
2-Fluorobiphenyl
Concen: 68.817 ng
RT: 9.187 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF134518.D
Acq: 28 Jul 2023 16:29

Tgt Ion:172 Resp: 97264

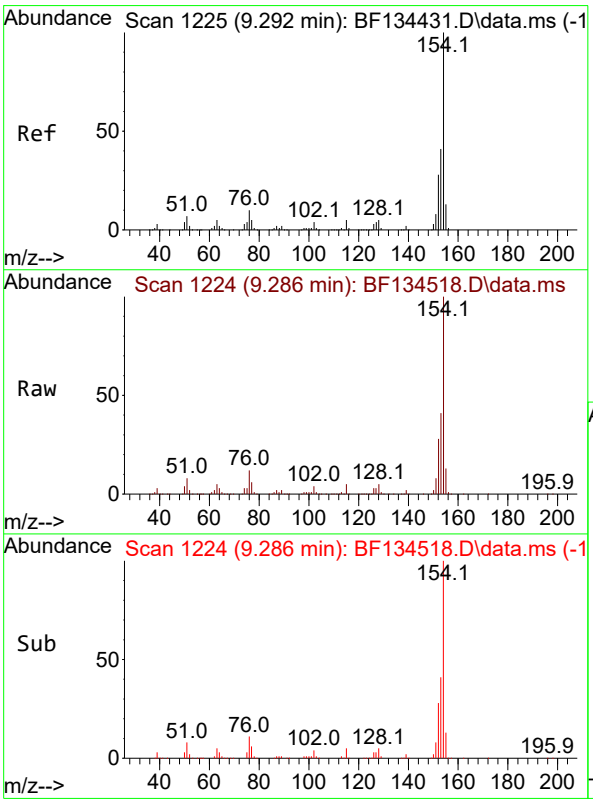
Ion	Ratio	Lower	Upper
172	100		
171	35.2	28.8	43.2
170	23.6	18.7	28.1



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

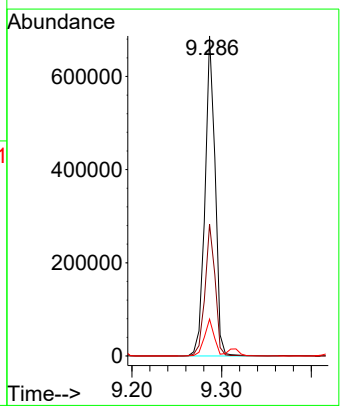
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/31/2023

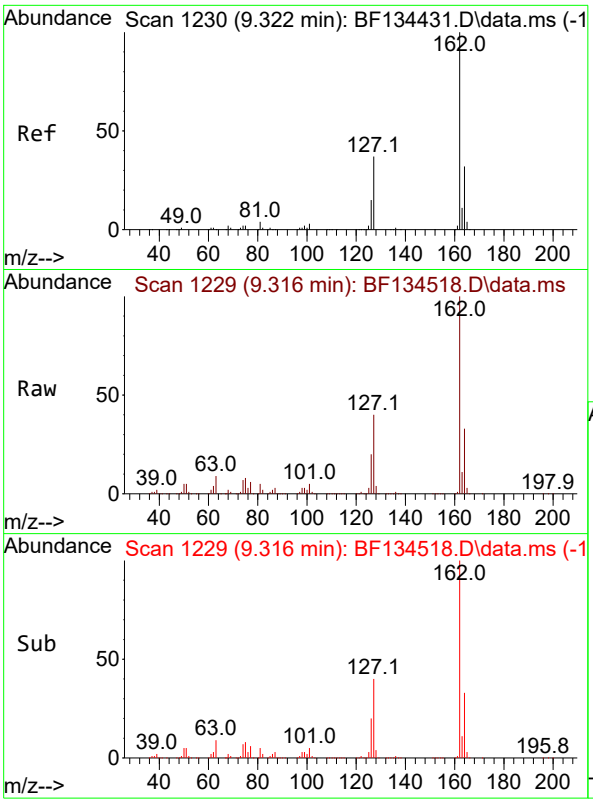


#46
1,1'-Biphenyl
Concen: 35.164 ng
RT: 9.286 min Scan# 1224
Delta R.T. 0.000 min
Lab File: BF134518.D
Acq: 28 Jul 2023 16:29

Tgt Ion:154 Resp: 537754

Ion	Ratio	Lower	Upper
154	100		
153	41.2	20.8	60.8
76	11.5	0.0	30.2

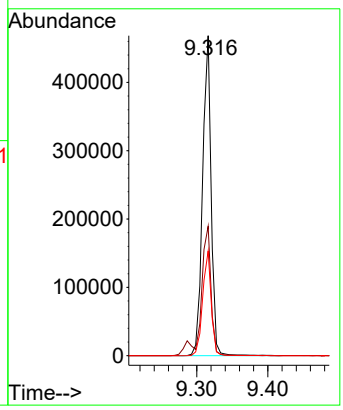




#47
2-Chloronaphthalene
Concen: 34.935 ng
RT: 9.316 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF134518.D
Acq: 28 Jul 2023 16:29

Tgt Ion:162 Resp: 39386

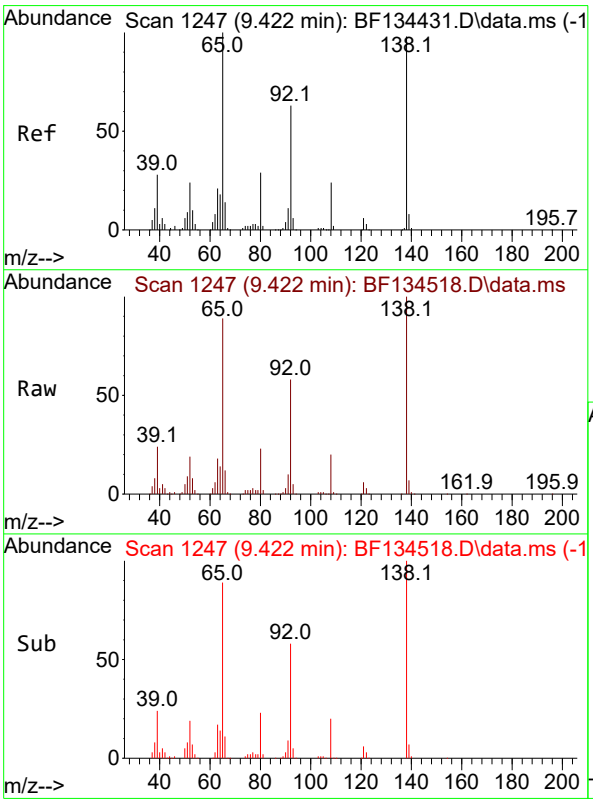
Ion	Ratio	Lower	Upper
162	100		
127	40.4	34.0	51.0
164	32.7	25.7	38.5



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

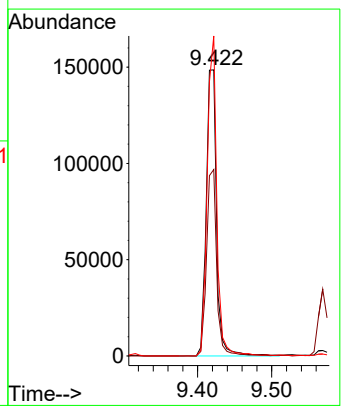
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/31/2023

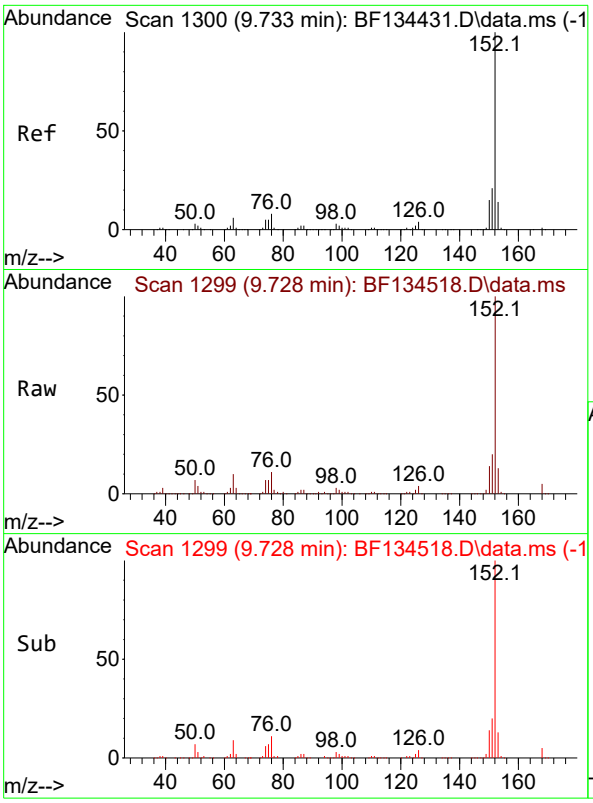


#48
2-Nitroaniline
Concen: 35.719 ng
RT: 9.422 min Scan# 1247
Delta R.T. 0.006 min
Lab File: BF134518.D
Acq: 28 Jul 2023 16:29

Tgt Ion: 65 Resp: 145031

Ion	Ratio	Lower	Upper
65	100		
92	65.2	50.7	76.1
138	111.8	78.2	117.4

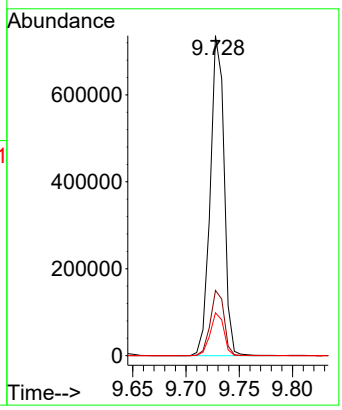




#49
Acenaphthylene
Concen: 34.932 ng
RT: 9.728 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134518.D
Acq: 28 Jul 2023 16:29

Tgt Ion:152 Resp: 66533

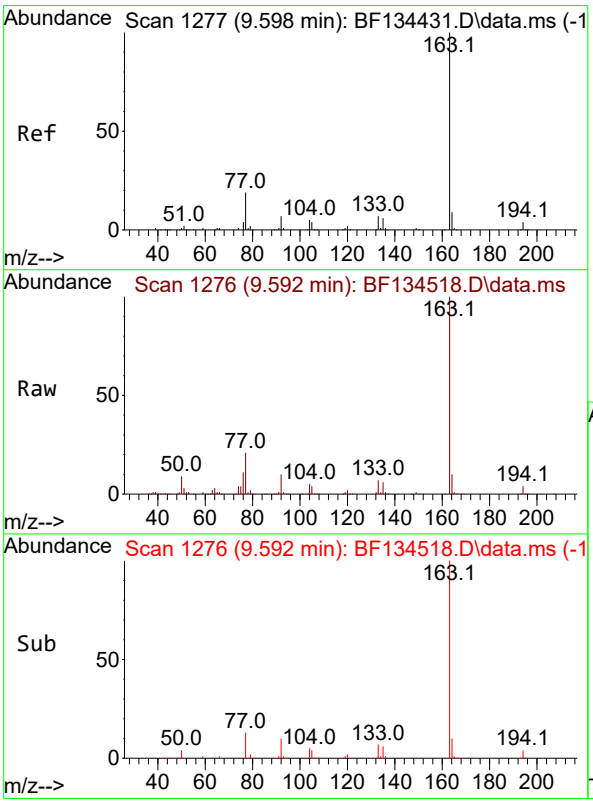
Ion	Ratio	Lower	Upper
152	100		
151	20.4	16.4	24.6
153	13.4	10.9	16.3



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

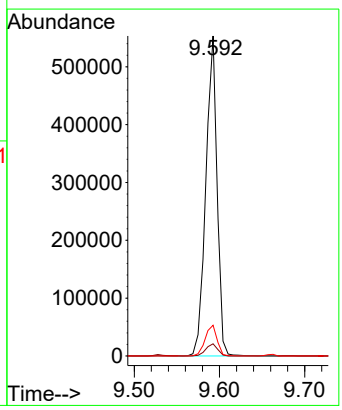
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/31/2023

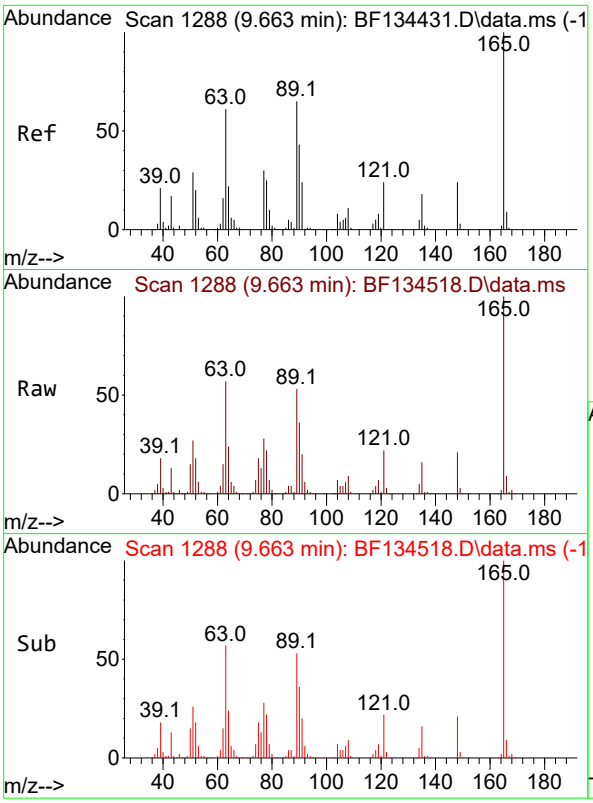


#50
Dimethylphthalate
Concen: 36.891 ng
RT: 9.592 min Scan# 1276
Delta R.T. 0.006 min
Lab File: BF134518.D
Acq: 28 Jul 2023 16:29

Tgt Ion:163 Resp: 507425

Ion	Ratio	Lower	Upper
163	100		
194	3.8	3.3	4.9
164	9.6	7.5	11.3





#51
2,6-Dinitrotoluene
Concen: 36.898 ng
RT: 9.663 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF134518.D
Acq: 28 Jul 2023 16:29

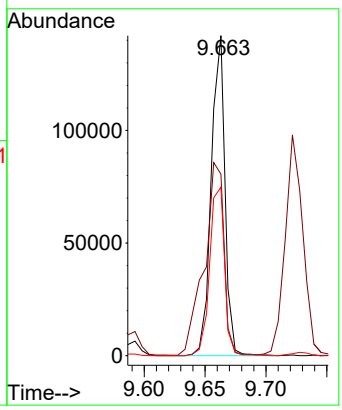
Tgt Ion:165 Resp: 11136

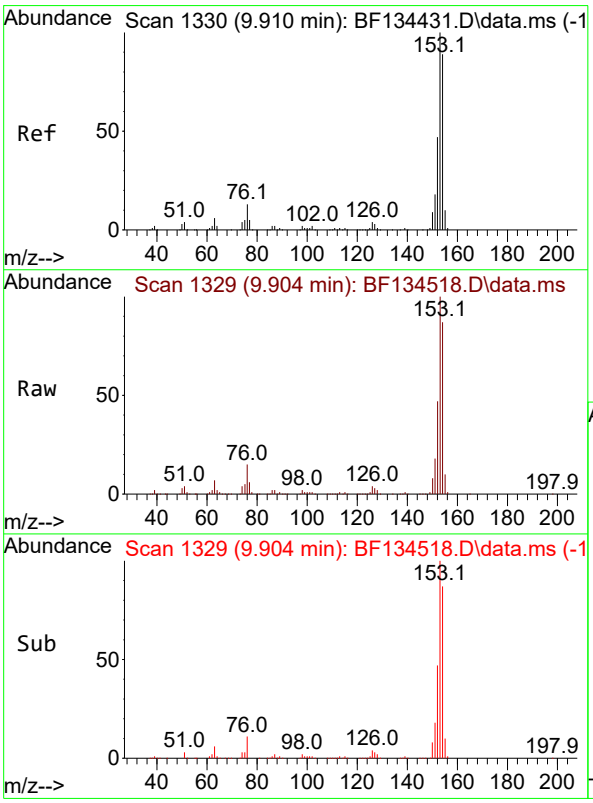
Ion	Ratio	Lower	Upper
165	100		
63	56.8	57.8	86.6
89	52.6	51.8	77.8

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/31/2023

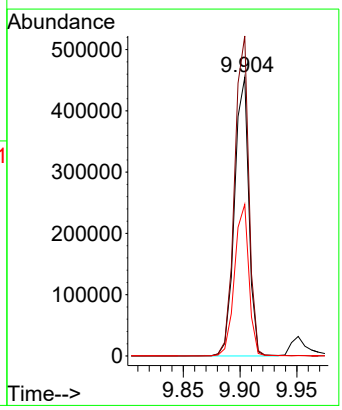


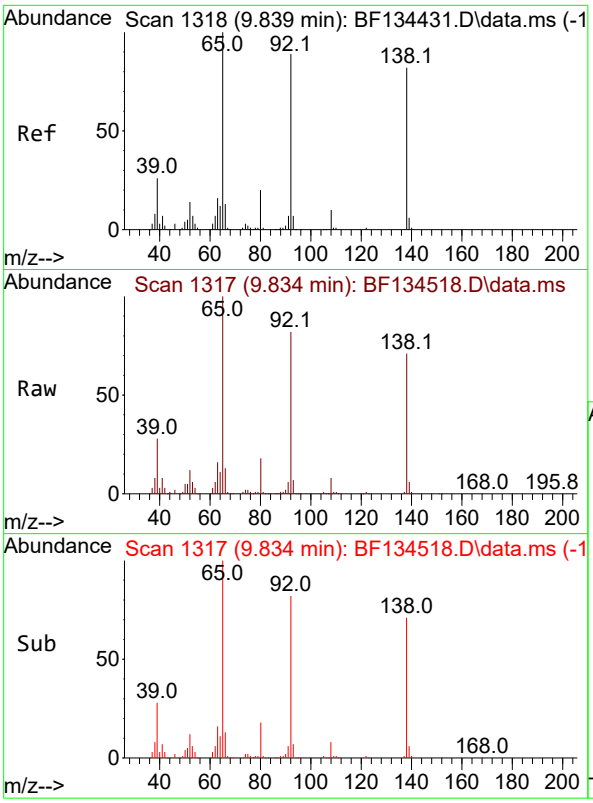


#52
Acenaphthene
Concen: 35.348 ng
RT: 9.904 min Scan# 1329
Delta R.T. 0.006 min
Lab File: BF134518.D
Acq: 28 Jul 2023 16:29

Tgt Ion:154 Resp: 397714

Ion	Ratio	Lower	Upper
154	100		
153	114.9	90.0	135.0
152	54.4	42.4	63.6





#53
3-Nitroaniline
Concen: 36.919 ng
RT: 9.834 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134518.D
Acq: 28 Jul 2023 16:29

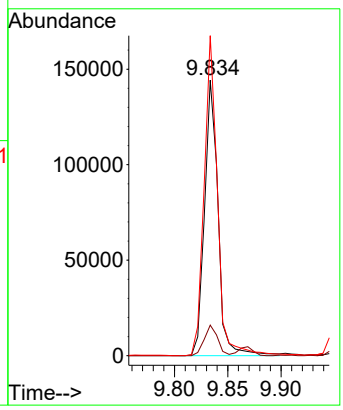
Tgt Ion:138 Resp: 12775

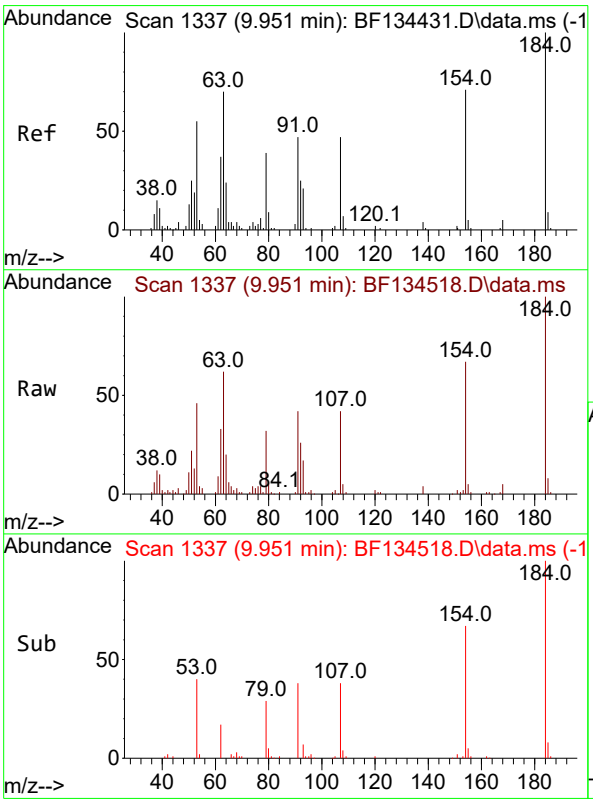
Ion	Ratio	Lower	Upper
138	100		
108	11.1	9.3	13.9
92	116.1	86.6	129.8

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/31/2023

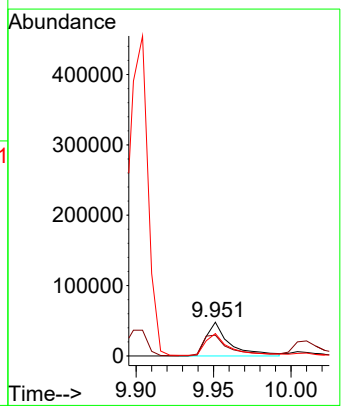


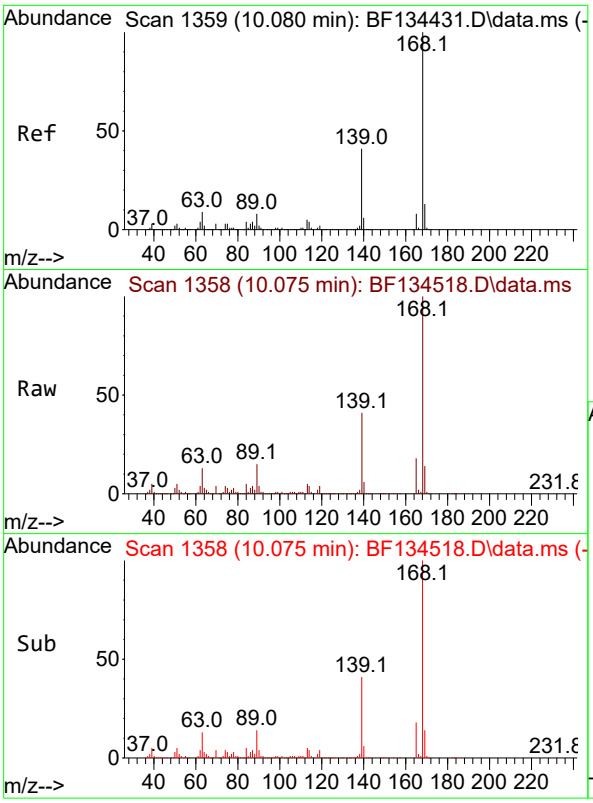


#54
2,4-Dinitrophenol
Concen: 35.564 ng
RT: 9.951 min Scan# 1337
Delta R.T. 0.006 min
Lab File: BF134518.D
Acq: 28 Jul 2023 16:29

Tgt Ion:184 Resp: 50019

Ion	Ratio	Lower	Upper
184	100		
63	61.7	57.1	85.7
154	66.7	59.1	88.7

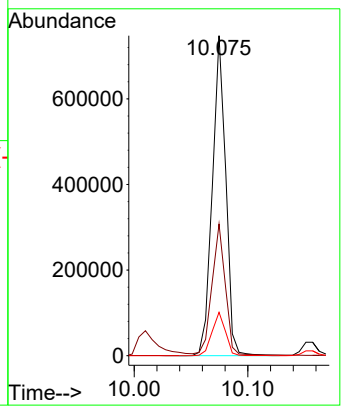




#55
Dibenzofuran
Concen: 35.390 ng
RT: 10.075 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF134518.D
Acq: 28 Jul 2023 16:29

Tgt Ion:168 Resp: 61286

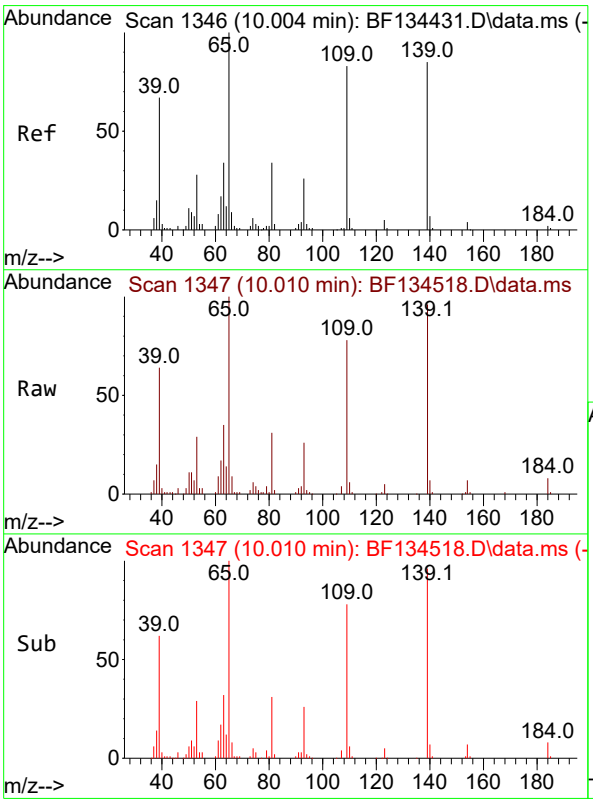
Ion	Ratio	Lower	Upper
168	100		
139	41.1	33.4	50.2
169	13.6	10.6	15.8



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

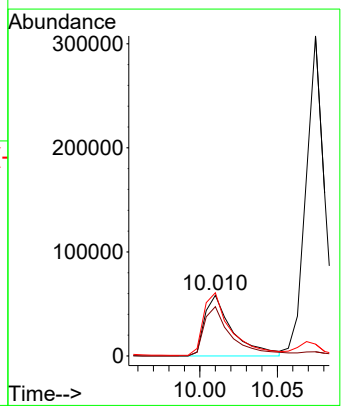
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/31/2023

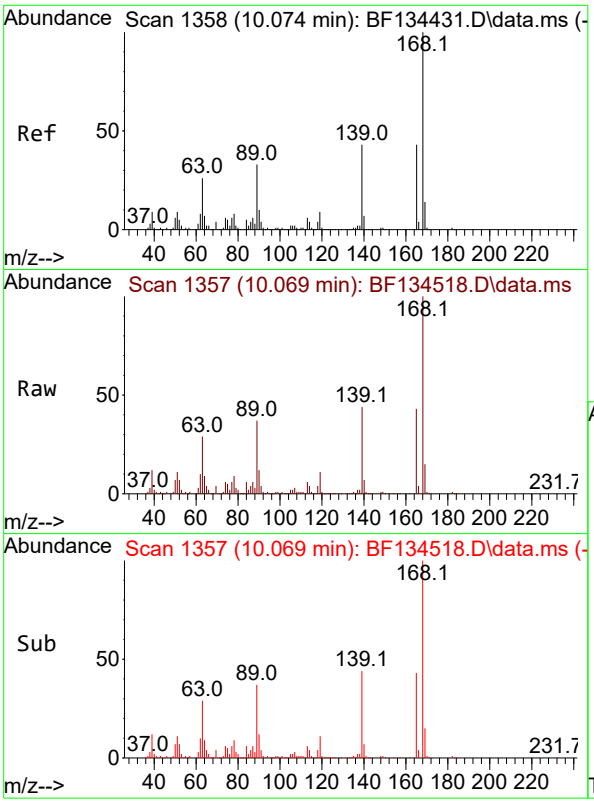


#56
4-Nitrophenol
Concen: 39.516 ng
RT: 10.010 min Scan# 1347
Delta R.T. 0.006 min
Lab File: BF134518.D
Acq: 28 Jul 2023 16:29

Tgt Ion:139 Resp: 72919

Ion	Ratio	Lower	Upper
139	100		
109	81.2	76.9	116.9
65	104.0	98.5	138.5

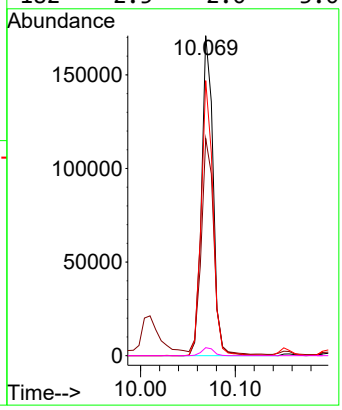




#57
2,4-Dinitrotoluene
Concen: 35.863 ng
RT: 10.069 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134518.D
Acq: 28 Jul 2023 16:29

Tgt Ion:165 Resp: 14537

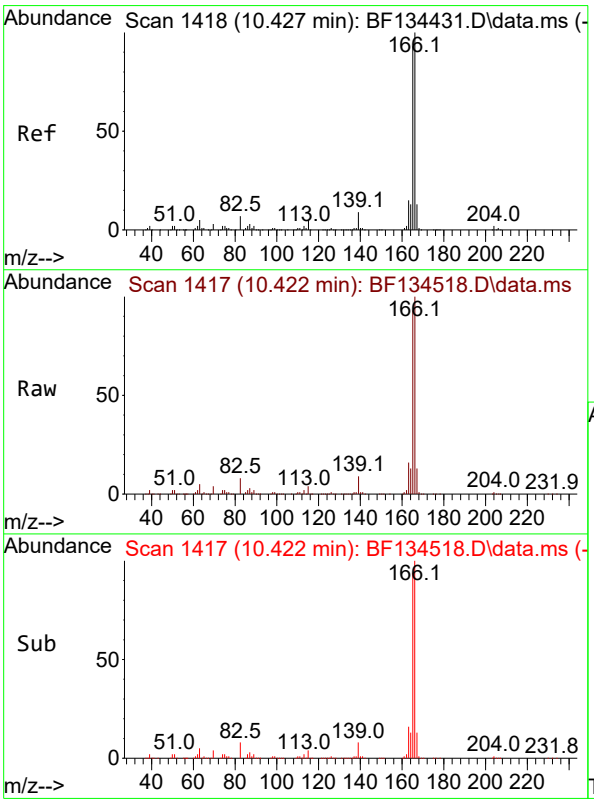
Ion	Ratio	Lower	Upper
165	100		
63	67.9	48.9	73.3
89	86.0	61.7	92.5
182	2.5	2.0	3.0



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

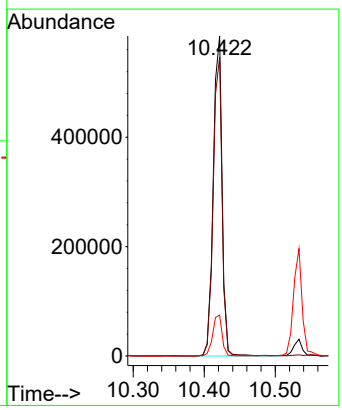
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/31/2023

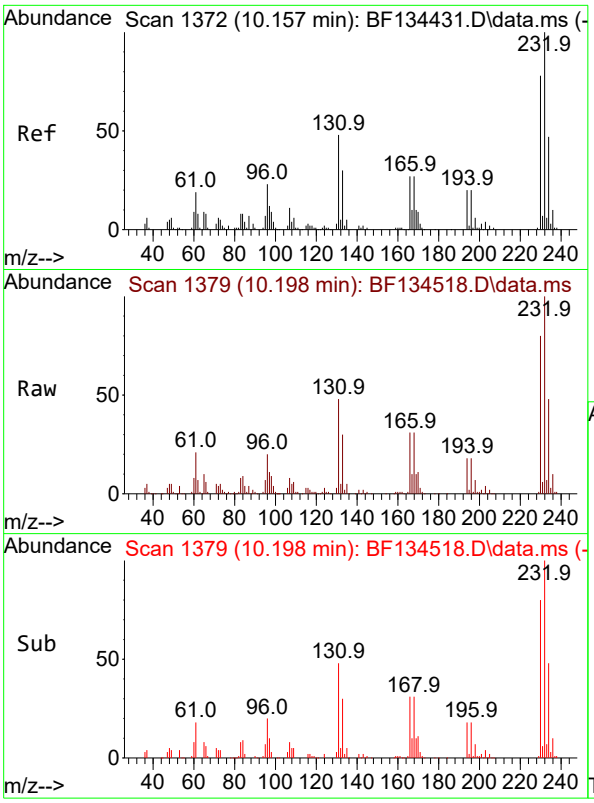


#58
Fluorene
Concen: 36.291 ng
RT: 10.422 min Scan# 1417
Delta R.T. 0.006 min
Lab File: BF134518.D
Acq: 28 Jul 2023 16:29

Tgt Ion:166 Resp: 506998

Ion	Ratio	Lower	Upper
166	100		
165	93.5	74.5	111.7
167	12.8	10.6	16.0

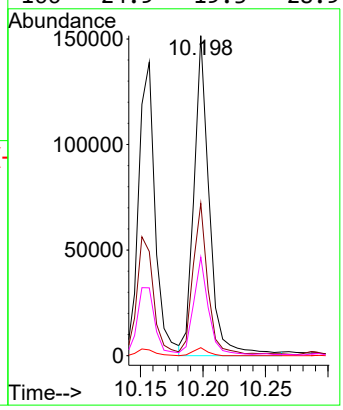




#59
2,3,4,6-Tetrachlorophenol
Concen: 38.630 ng m
RT: 10.198 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134518.D
Acq: 28 Jul 2023 16:29

Tgt Ion:232 Resp: 13044

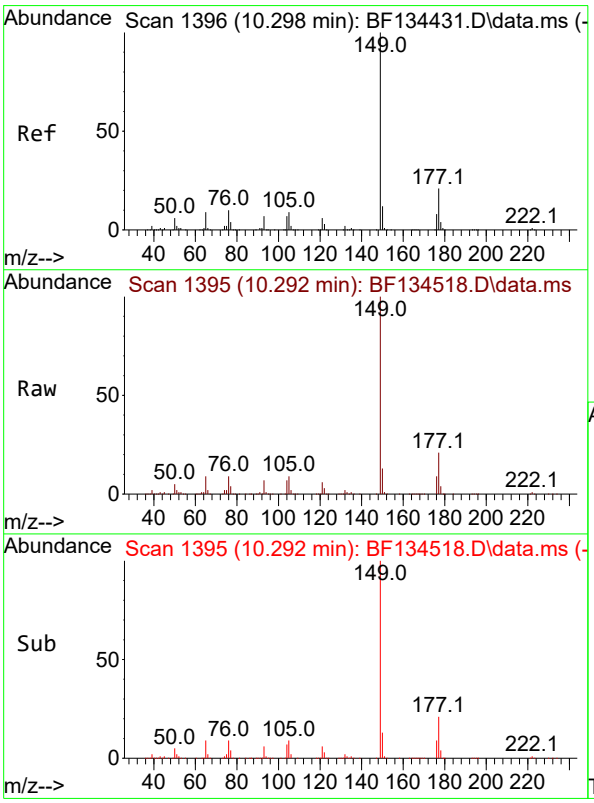
Ion	Ratio	Lower	Upper
232	100		
131	40.4	33.4	50.0
130	2.4	1.8	2.6
166	24.9	19.3	28.9



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

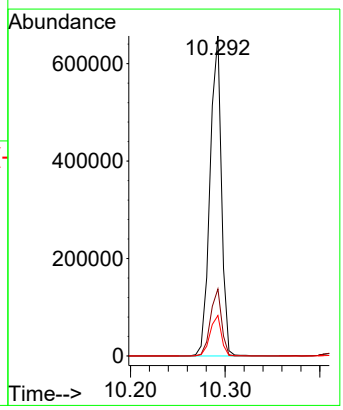
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/31/2023

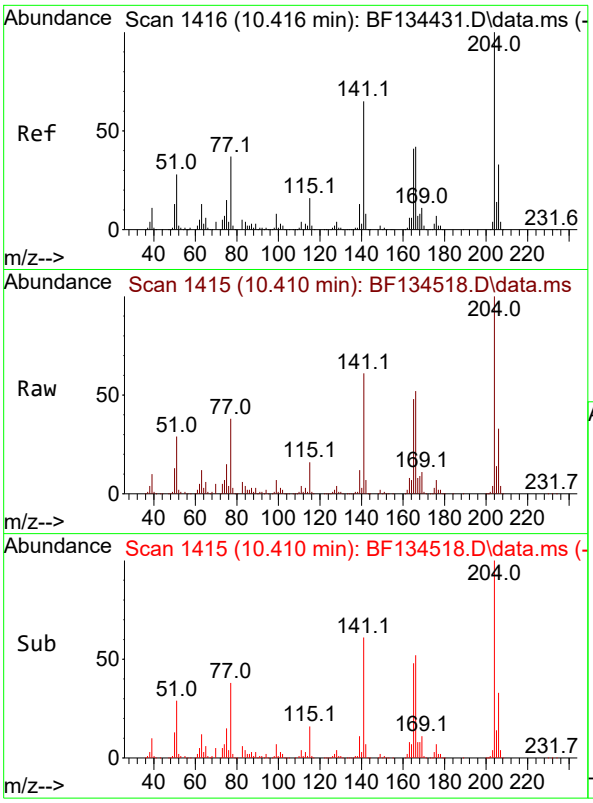


#60
Diethylphthalate
Concen: 38.506 ng
RT: 10.292 min Scan# 1395
Delta R.T. 0.006 min
Lab File: BF134518.D
Acq: 28 Jul 2023 16:29

Tgt Ion:149 Resp: 548353

Ion	Ratio	Lower	Upper
149	100		
177	21.0	17.0	25.4
150	12.6	9.9	14.9

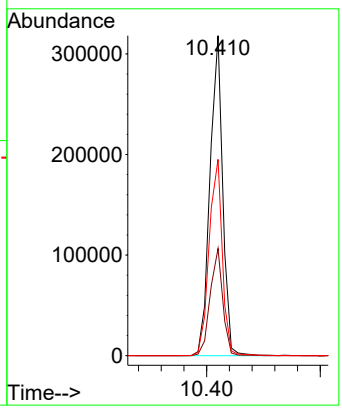




#61
4-Chlorophenyl-phenylether
Concen: 37.054 ng
RT: 10.410 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF134518.D
Acq: 28 Jul 2023 16:29

Tgt Ion:204 Resp: 24728

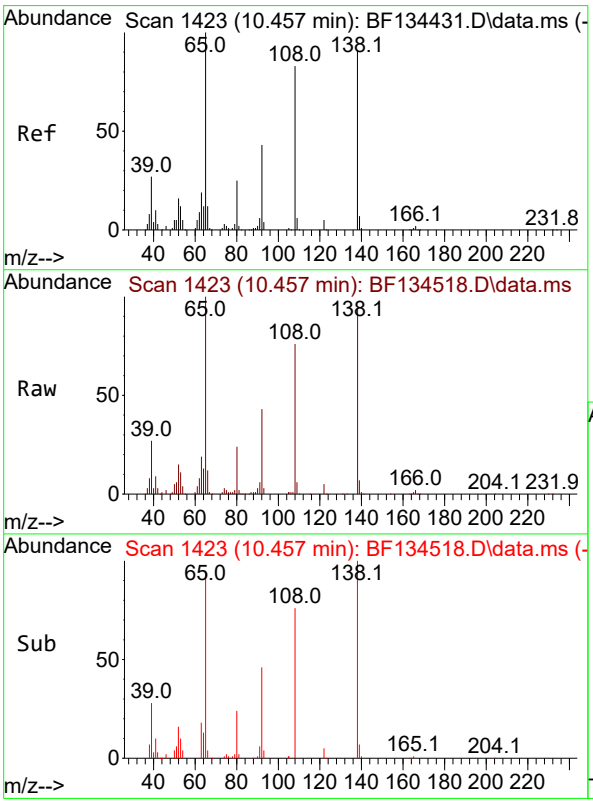
Ion	Ratio	Lower	Upper
204	100		
206	33.5	26.0	39.0
141	61.4	52.2	78.4



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

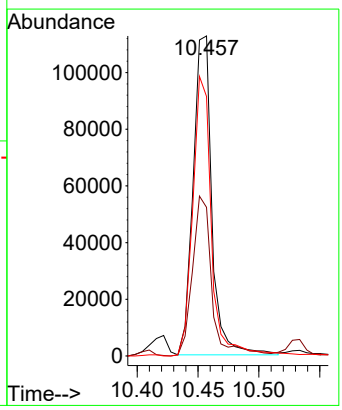
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/31/2023

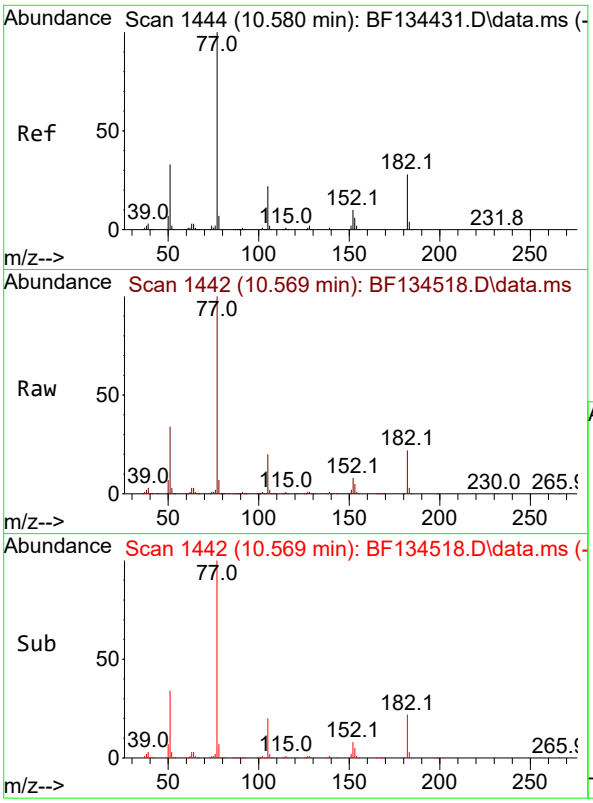


#62
4-Nitroaniline
Concen: 34.132 ng
RT: 10.457 min Scan# 1423
Delta R.T. 0.006 min
Lab File: BF134518.D
Acq: 28 Jul 2023 16:29

Tgt Ion:138 Resp: 121176

Ion	Ratio	Lower	Upper
138	100		
92	46.5	27.0	67.0
108	81.1	70.4	110.4

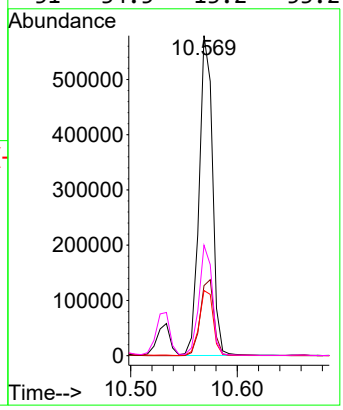




#63
Azobenzene
Concen: 38.548 ng
RT: 10.569 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF134518.D
Acq: 28 Jul 2023 16:29

Tgt Ion: 77 Resp: 50528

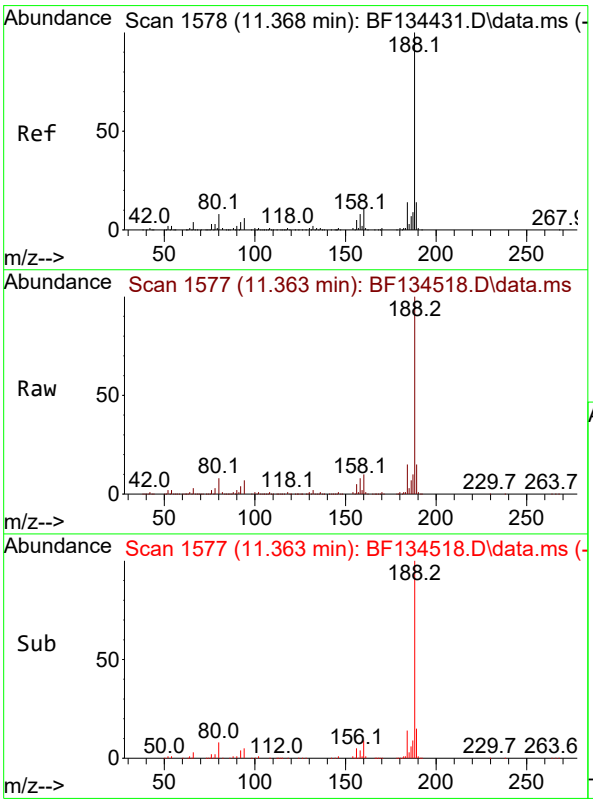
Ion	Ratio	Lower	Upper
77	100		
182	21.9	7.5	47.5
105	20.4	1.9	41.9
51	34.5	13.2	53.2



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

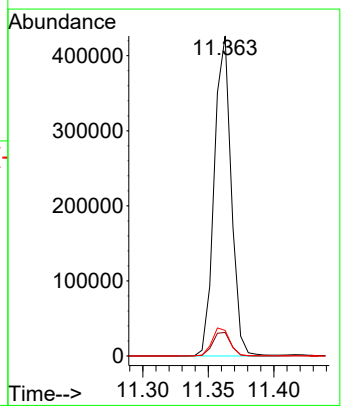
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/31/2023

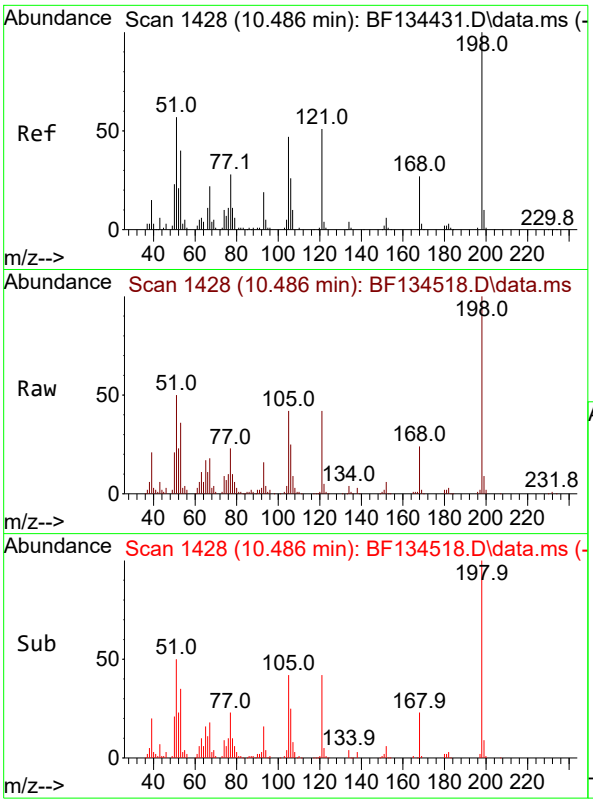


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.363 min Scan# 1577
Delta R.T. 0.006 min
Lab File: BF134518.D
Acq: 28 Jul 2023 16:29

Tgt Ion:188 Resp: 383332

Ion	Ratio	Lower	Upper
188	100		
94	7.3	5.1	7.7
80	8.0	6.6	9.8

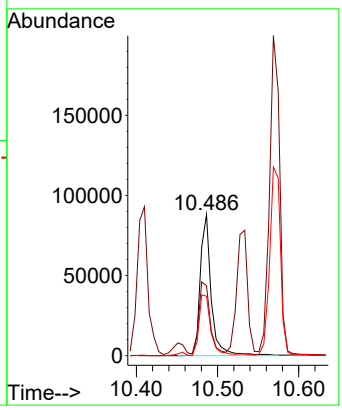




#65
4,6-Dinitro-2-methylphenol
Concen: 37.485 ng
RT: 10.486 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF134518.D
Acq: 28 Jul 2023 16:29

Tgt Ion:198 Resp: 8242

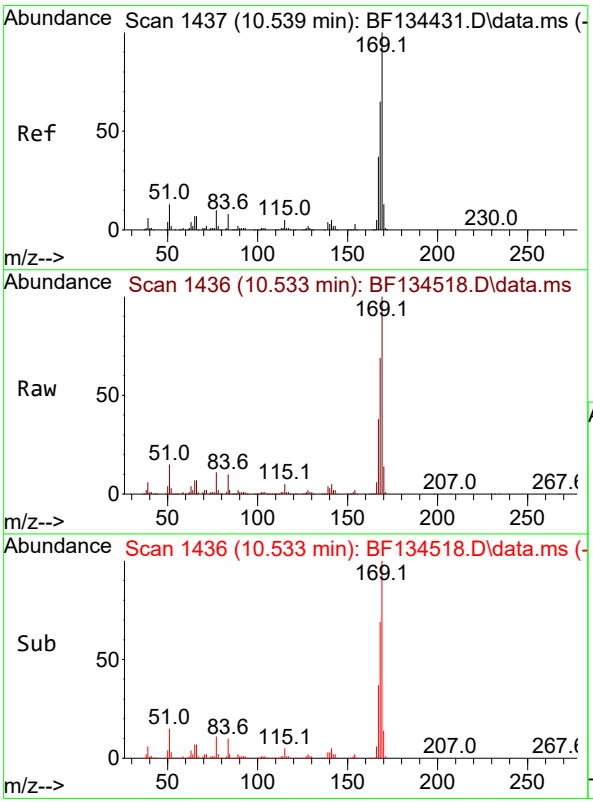
Ion	Ratio	Lower	Upper
198	100		
51	49.7	38.6	78.6
105	42.2	27.9	67.9



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

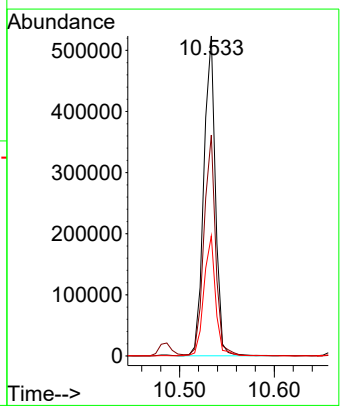
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/31/2023

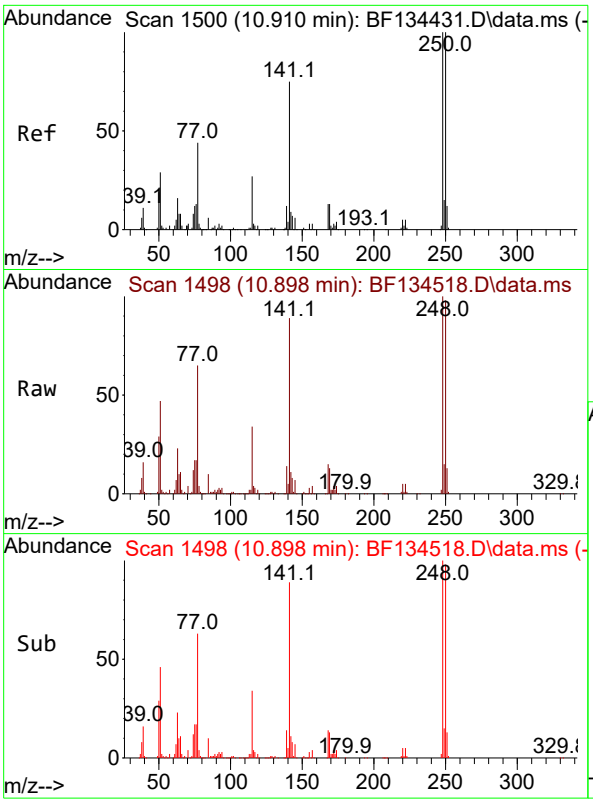


#66
n-Nitrosodiphenylamine
Concen: 36.386 ng
RT: 10.533 min Scan# 1436
Delta R.T. 0.006 min
Lab File: BF134518.D
Acq: 28 Jul 2023 16:29

Tgt Ion:169 Resp: 443752

Ion	Ratio	Lower	Upper
169	100		
168	69.0	52.6	78.8
167	37.5	29.8	44.8





#67
4-Bromophenyl-phenylether
Concen: 37.072 ng
RT: 10.898 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF134518.D
Acq: 28 Jul 2023 16:29

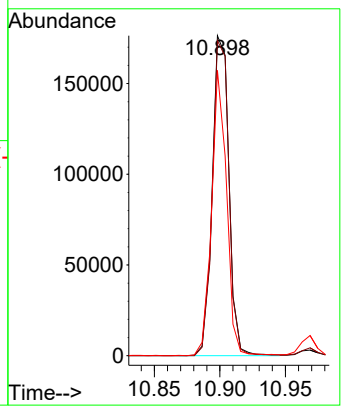
Tgt Ion:248 Resp: 15570

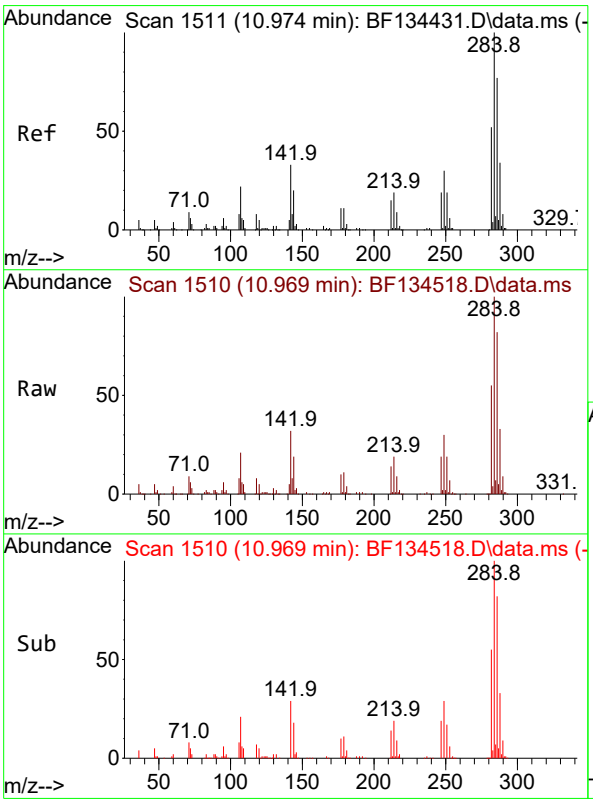
Ion	Ratio	Lower	Upper
248	100		
250	98.5	79.6	119.4
141	89.1	59.6	89.4

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/31/2023

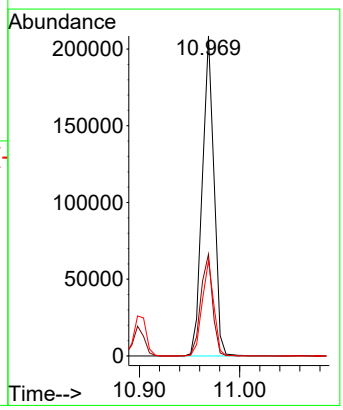


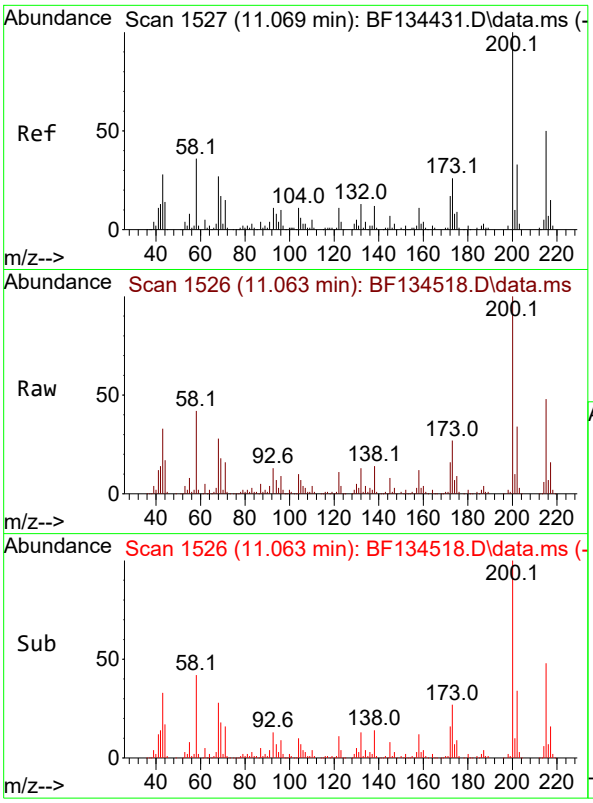


#68
Hexachlorobenzene
Concen: 36.025 ng
RT: 10.969 min Scan# 1510
Delta R.T. 0.000 min
Lab File: BF134518.D
Acq: 28 Jul 2023 16:29

Tgt Ion:284 Resp: 170382

Ion	Ratio	Lower	Upper
284	100		
142	31.8	26.5	39.7
249	29.8	23.8	35.8

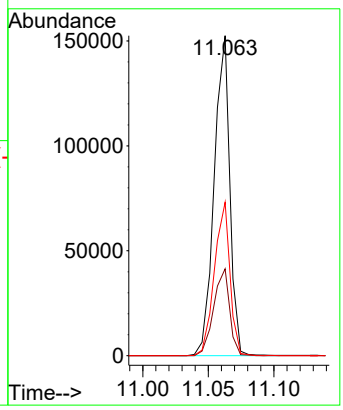




#69
Atrazine
Concen: 37.087 ng
RT: 11.063 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF134518.D
Acq: 28 Jul 2023 16:29

Tgt Ion:200 Resp: 12610

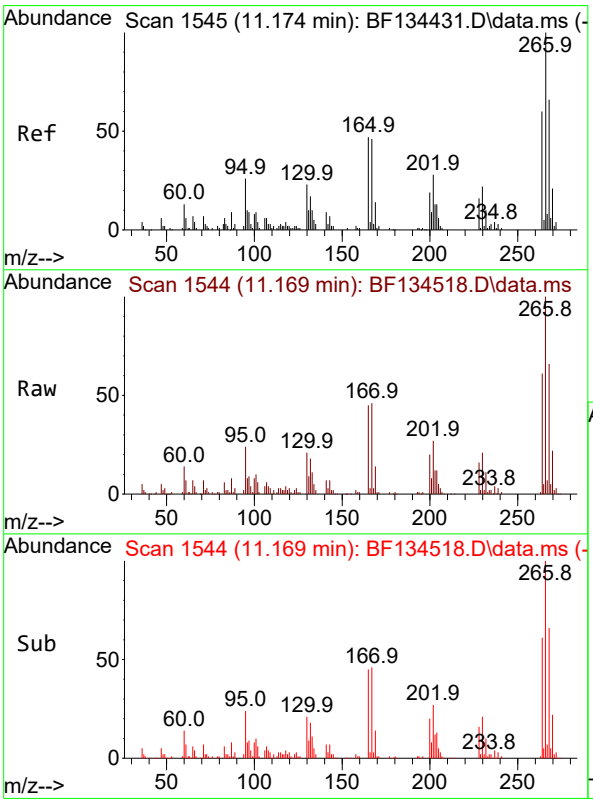
Ion	Ratio	Lower	Upper
200	100		
173	27.1	6.1	46.1
215	47.9	29.7	69.7



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

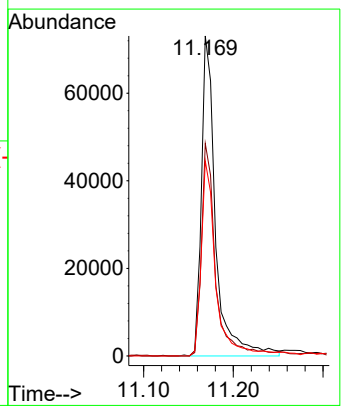
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/31/2023

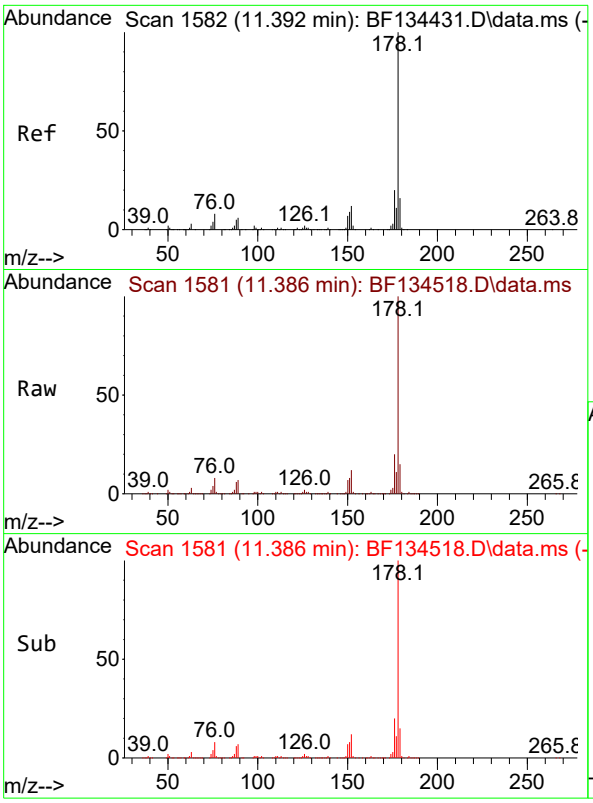


#70
Pentachlorophenol
Concen: 40.463 ng
RT: 11.169 min Scan# 1544
Delta R.T. 0.000 min
Lab File: BF134518.D
Acq: 28 Jul 2023 16:29

Tgt Ion:266 Resp: 80311

Ion	Ratio	Lower	Upper
266	100		
268	66.4	52.9	79.3
264	61.0	47.8	71.6

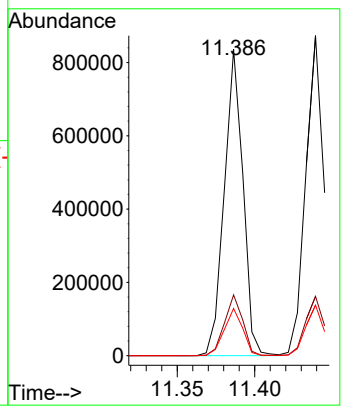




#71
Phenanthrene
Concen: 35.017 ng
RT: 11.386 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134518.D
Acq: 28 Jul 2023 16:29

Tgt Ion:178 Resp: 70133

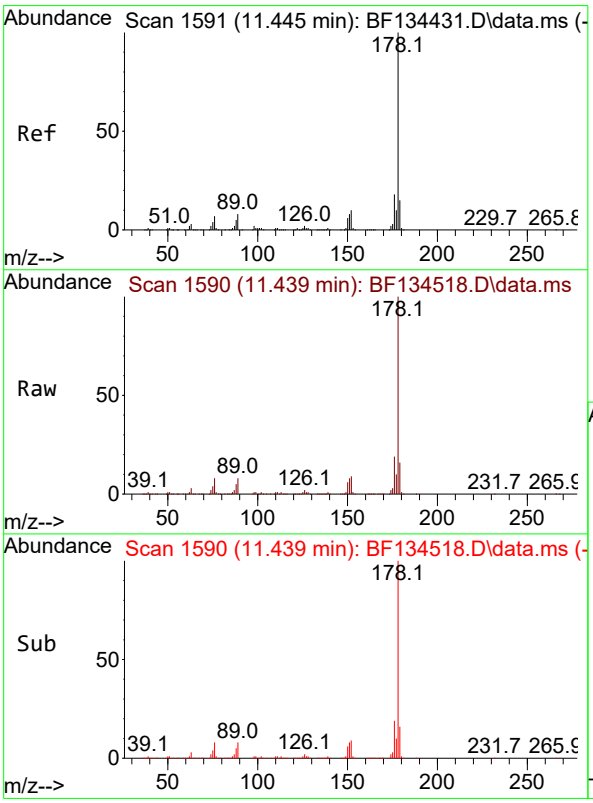
Ion	Ratio	Lower	Upper
178	100		
176	19.9	15.8	23.6
179	15.4	12.7	19.1



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

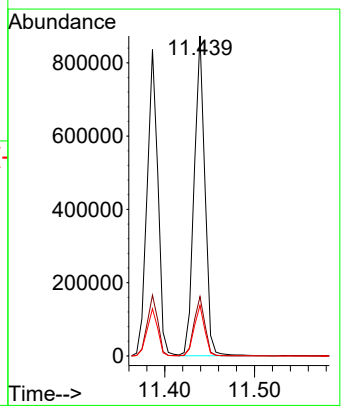
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/31/2023

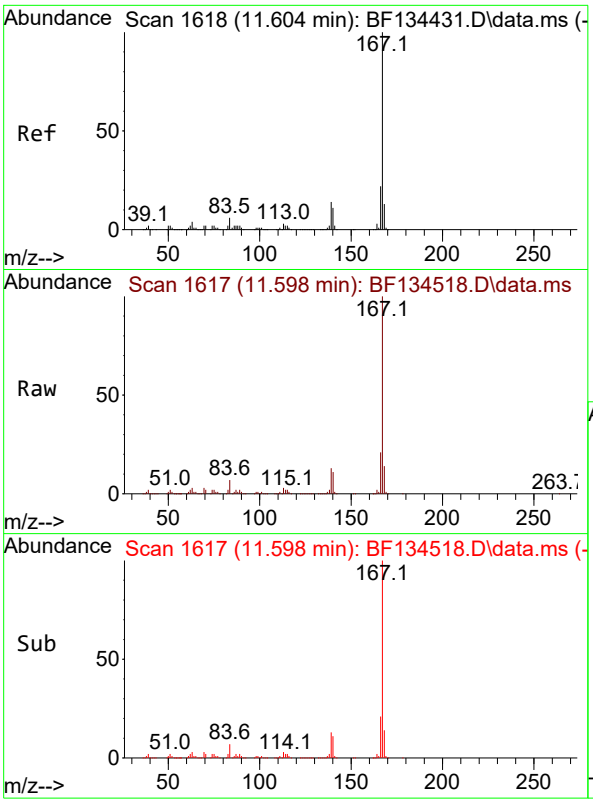


#72
Anthracene
Concen: 35.045 ng
RT: 11.439 min Scan# 1590
Delta R.T. 0.000 min
Lab File: BF134518.D
Acq: 28 Jul 2023 16:29

Tgt Ion:178 Resp: 724445

Ion	Ratio	Lower	Upper
178	100		
176	18.5	14.6	21.8
179	15.8	12.3	18.5

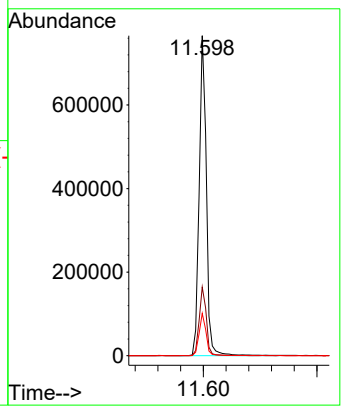




#73
Carbazole
Concen: 34.714 ng
RT: 11.598 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134518.D
Acq: 28 Jul 2023 16:29

Tgt Ion:167 Resp: 67575

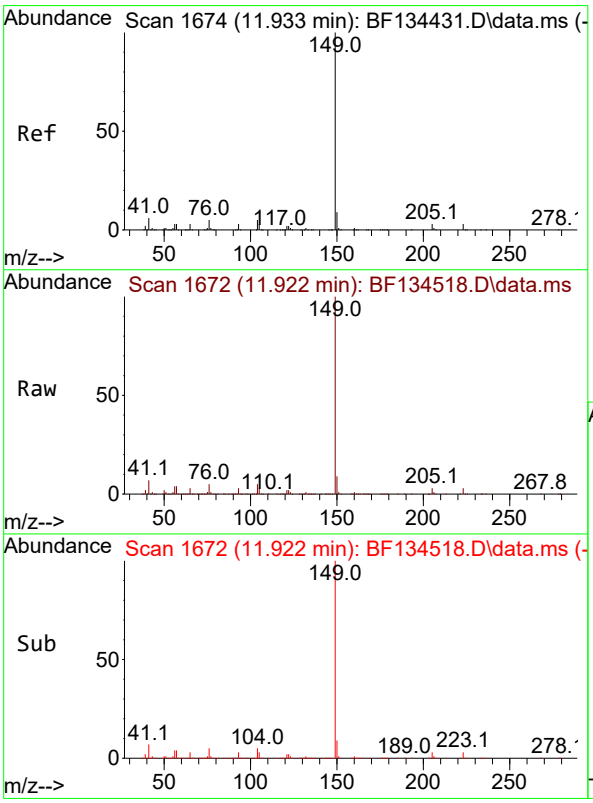
Ion	Ratio	Lower	Upper
167	100		
166	21.5	17.5	26.3
139	13.2	11.0	16.4



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

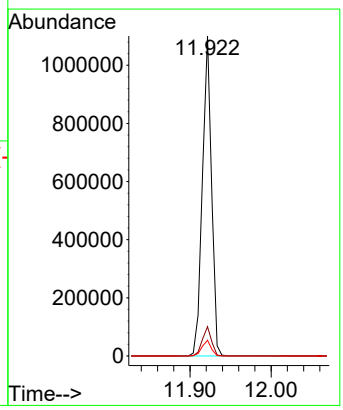
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/31/2023

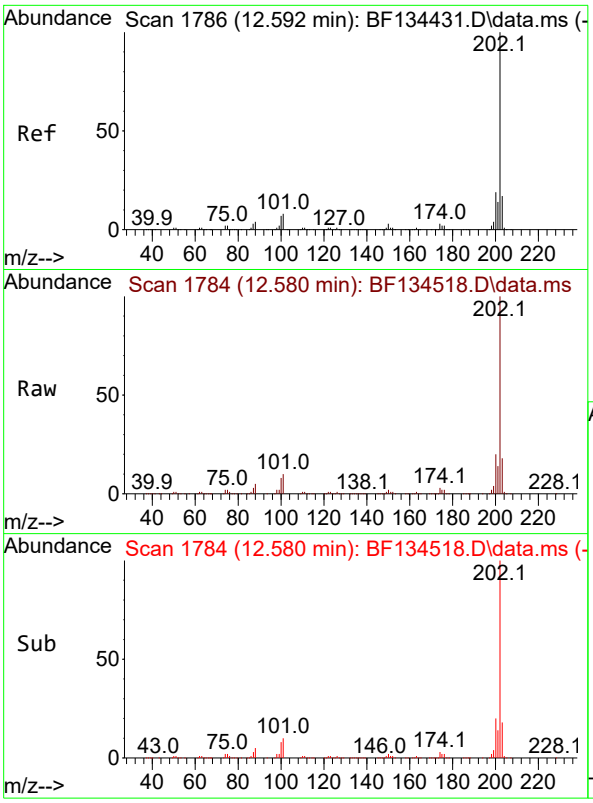


#74
Di-n-butylphthalate
Concen: 38.588 ng
RT: 11.922 min Scan# 1672
Delta R.T. 0.000 min
Lab File: BF134518.D
Acq: 28 Jul 2023 16:29

Tgt Ion:149 Resp: 862275

Ion	Ratio	Lower	Upper
149	100		
150	9.1	7.2	10.8
104	4.9	3.8	5.8

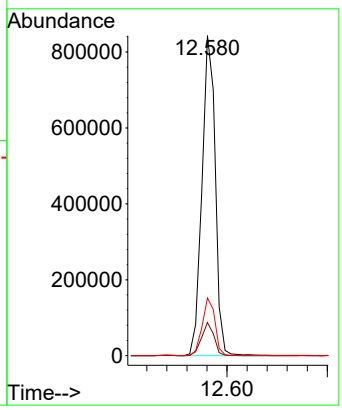




#75
Fluoranthene
Concen: 33.441 ng
RT: 12.580 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134518.D
Acq: 28 Jul 2023 16:29

Tgt Ion:202 Resp: 78058

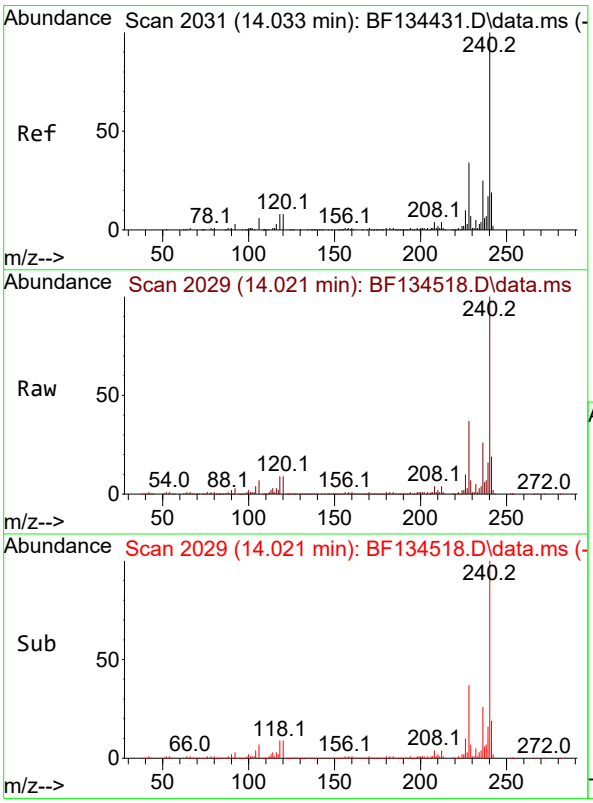
Ion	Ratio	Lower	Upper
202	100		
101	10.3	0.0	28.5
203	18.0	0.0	37.5



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

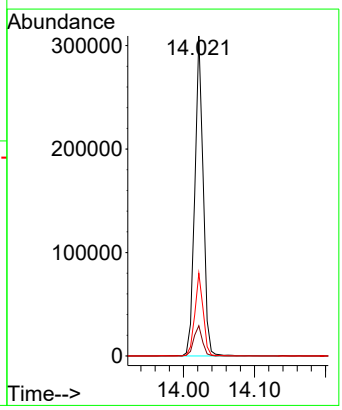
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/31/2023

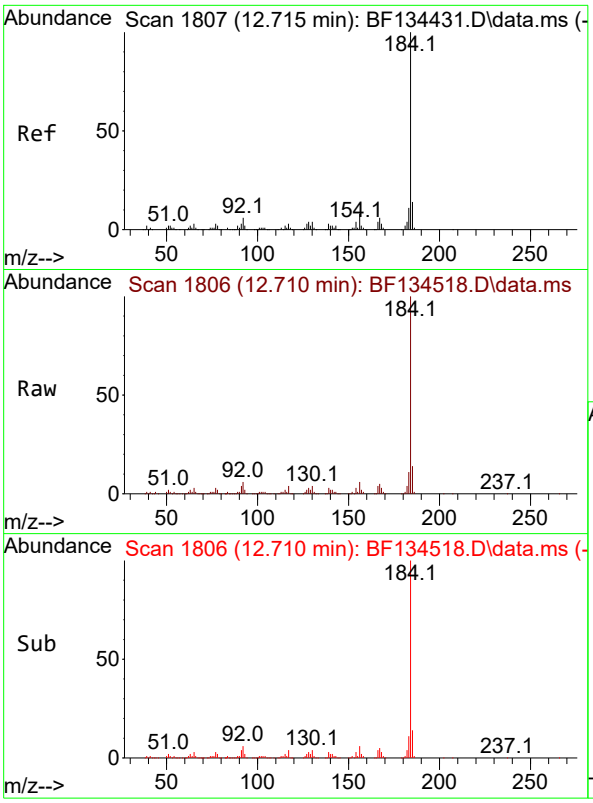


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.021 min Scan# 2029
Delta R.T. 0.000 min
Lab File: BF134518.D
Acq: 28 Jul 2023 16:29

Tgt Ion:240 Resp: 254954

Ion	Ratio	Lower	Upper
240	100		
120	9.5	6.6	10.0
236	25.8	20.2	30.2

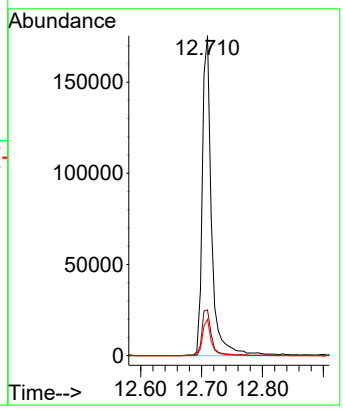




#77
Benzidine
Concen: 34.205 ng
RT: 12.710 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF134518.D
Acq: 28 Jul 2023 16:29

Tgt Ion:184 Resp: 18620

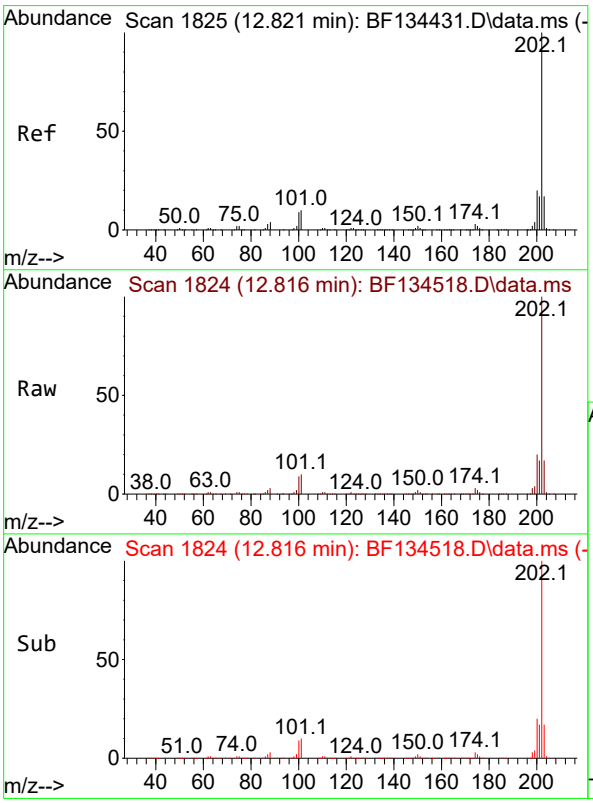
Ion	Ratio	Lower	Upper
184	100		
185	14.3	11.2	16.8
183	11.4	8.6	13.0



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

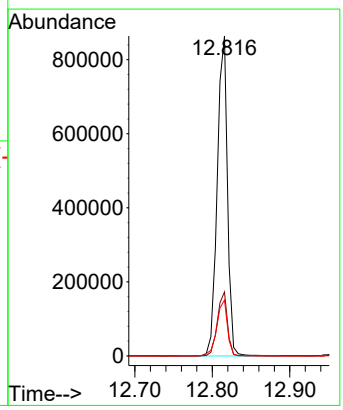
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/31/2023

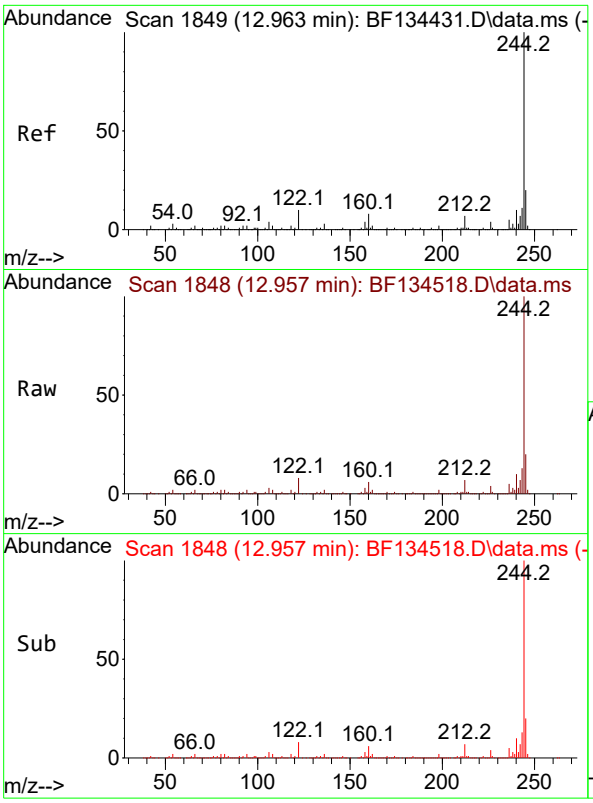


#78
Pyrene
Concen: 39.055 ng
RT: 12.816 min Scan# 1824
Delta R.T. 0.006 min
Lab File: BF134518.D
Acq: 28 Jul 2023 16:29

Tgt Ion:202 Resp: 791720

Ion	Ratio	Lower	Upper
202	100		
200	20.0	15.8	23.8
203	17.4	13.5	20.3

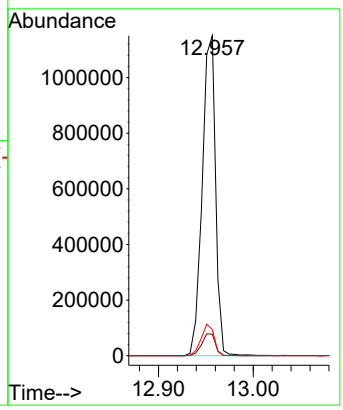




#79
Terphenyl-d14
Concen: 77.256 ng
RT: 12.957 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF134518.D
Acq: 28 Jul 2023 16:29

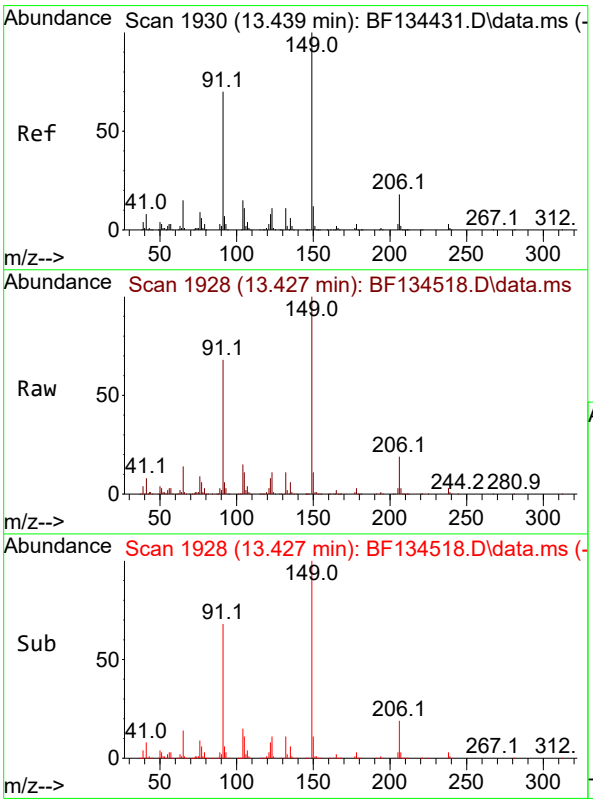
Tgt Ion:244 Resp: 112832

Ion	Ratio	Lower	Upper
244	100		
212	6.7	5.6	8.4
122	8.2	8.0	12.0



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

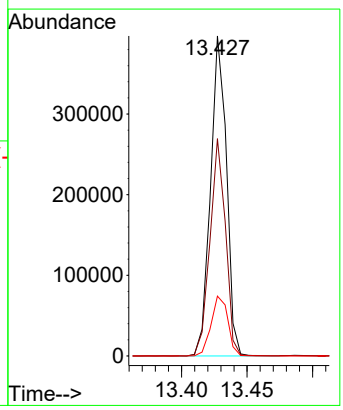
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/31/2023

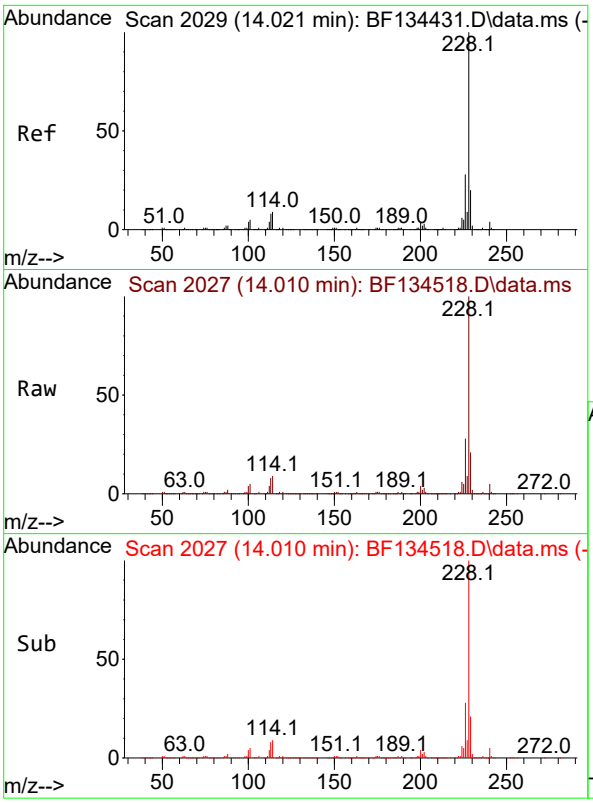


#80
Butylbenzylphthalate
Concen: 41.391 ng
RT: 13.427 min Scan# 1928
Delta R.T. 0.000 min
Lab File: BF134518.D
Acq: 28 Jul 2023 16:29

Tgt Ion:149 Resp: 336111

Ion	Ratio	Lower	Upper
149	100		
91	67.9	55.8	83.6
206	18.7	14.6	21.8

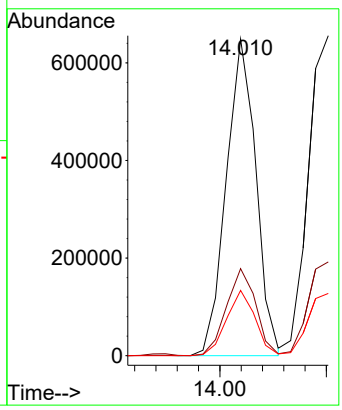




#81
Benzo(a)anthracene
Concen: 35.330 ng
RT: 14.010 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF134518.D
Acq: 28 Jul 2023 16:29

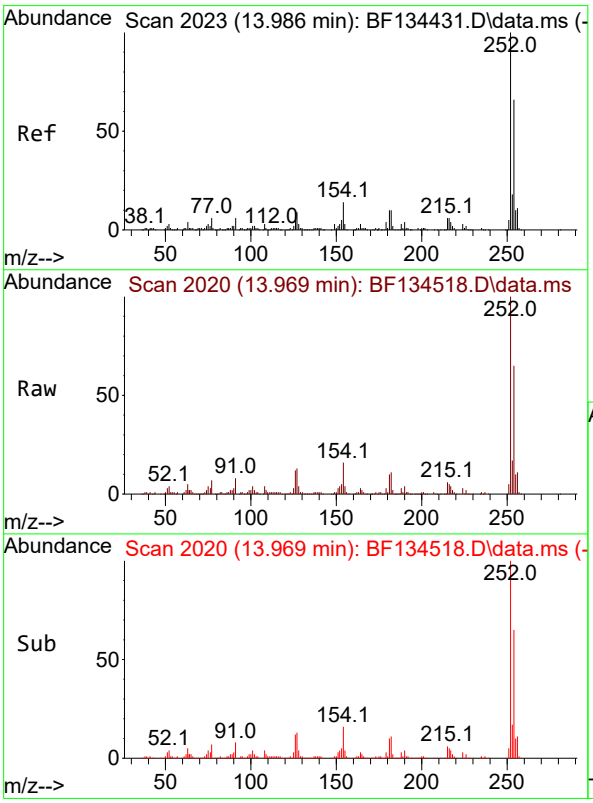
Tgt Ion:228 Resp: 62844

Ion	Ratio	Lower	Upper
228	100		
226	27.5	22.3	33.5
229	20.6	15.8	23.6



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

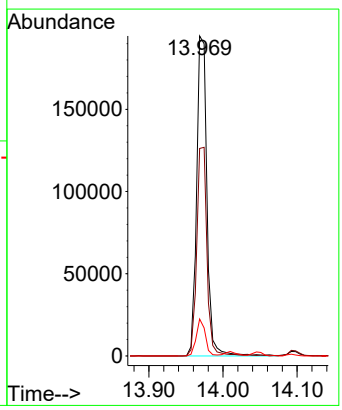
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/31/2023

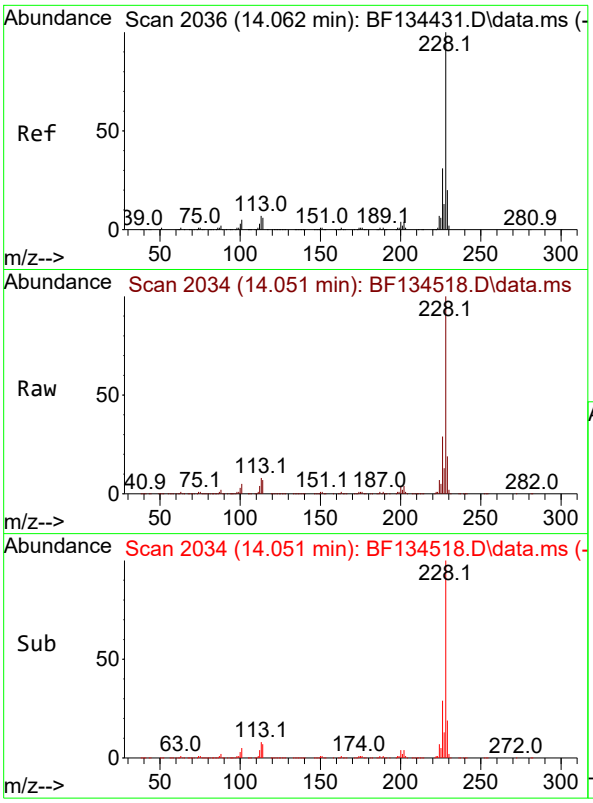


#82
3,3'-Dichlorobenzidine
Concen: 33.308 ng
RT: 13.969 min Scan# 2020
Delta R.T. 0.000 min
Lab File: BF134518.D
Acq: 28 Jul 2023 16:29

Tgt Ion:252 Resp: 187655

Ion	Ratio	Lower	Upper
252	100		
254	64.8	52.7	79.1
126	11.5	7.2	10.8#

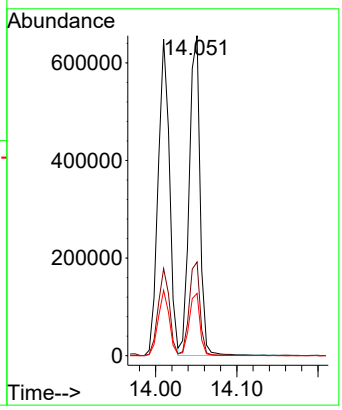




#83
Chrysene
Concen: 35.579 ng
RT: 14.051 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF134518.D
Acq: 28 Jul 2023 16:29

Tgt Ion:228 Resp: 60532

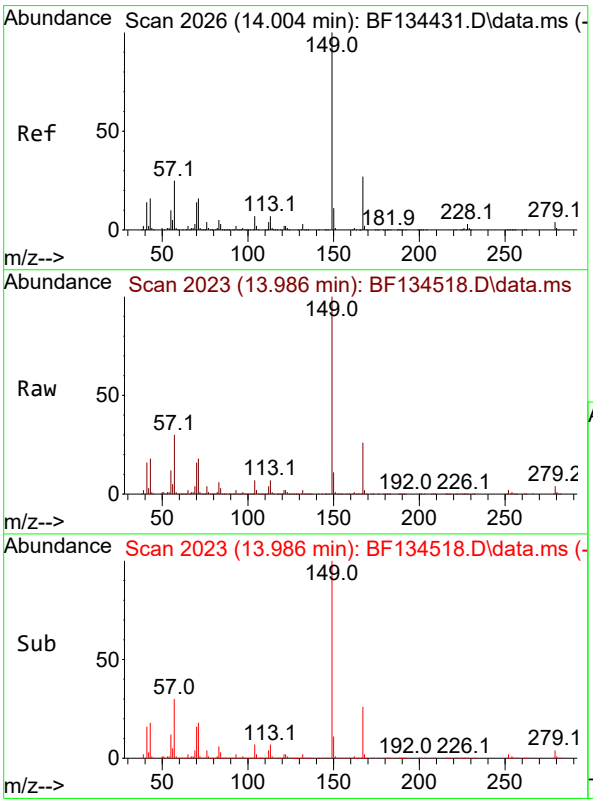
Ion	Ratio	Lower	Upper
228	100		
226	29.3	24.5	36.7
229	19.5	15.8	23.8



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

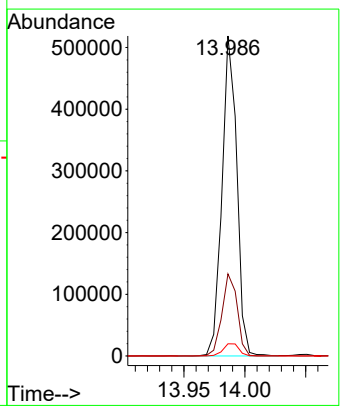
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/31/2023

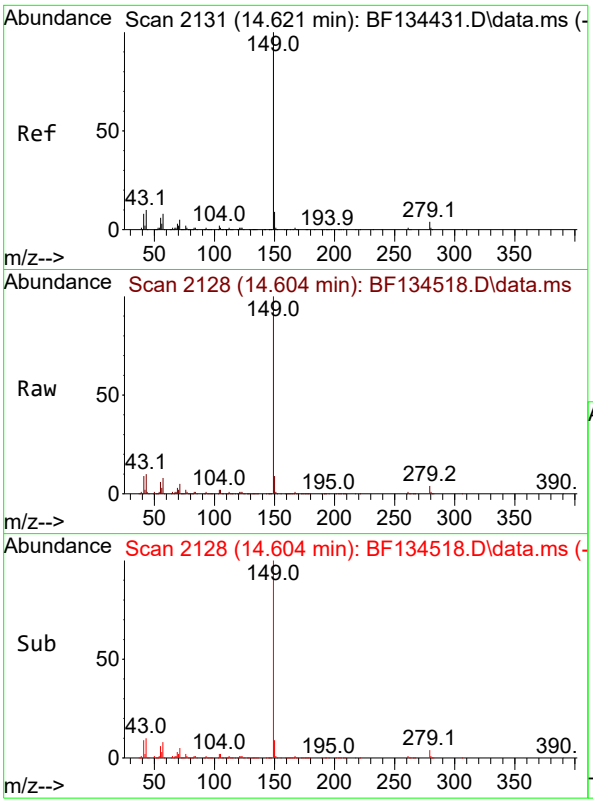


#84
Bis(2-ethylhexyl)phthalate
Concen: 44.625 ng
RT: 13.986 min Scan# 2023
Delta R.T. 0.000 min
Lab File: BF134518.D
Acq: 28 Jul 2023 16:29

Tgt Ion:149 Resp: 440229

Ion	Ratio	Lower	Upper
149	100		
167	25.7	21.6	32.4
279	3.8	3.5	5.3





#85
Di-n-octyl phthalate
Concen: 45.390 ng
RT: 14.604 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF134518.D
Acq: 28 Jul 2023 16:29

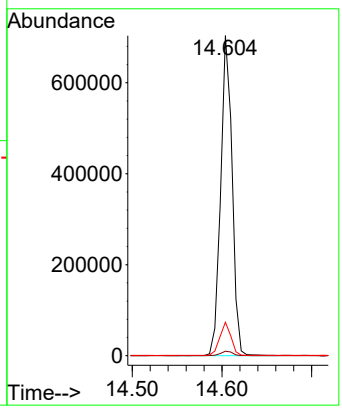
Tgt Ion:149 Resp: 62227

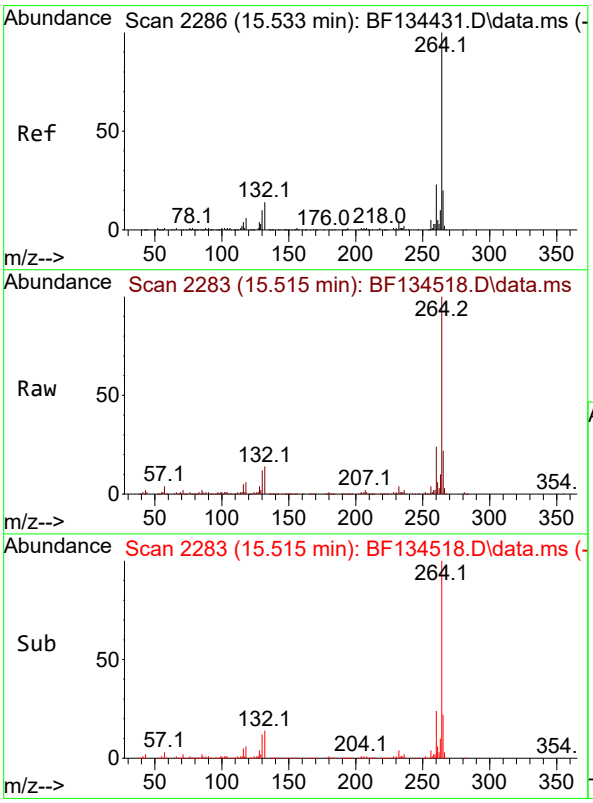
Ion	Ratio	Lower	Upper
149	100		
167	1.5	1.2	1.8
43	10.0	8.1	12.1

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/31/2023

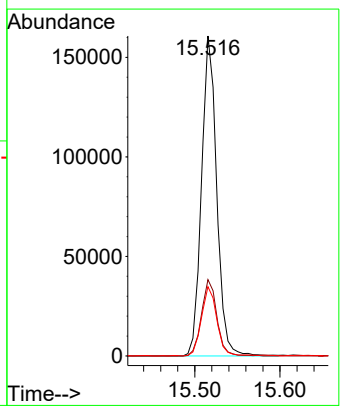


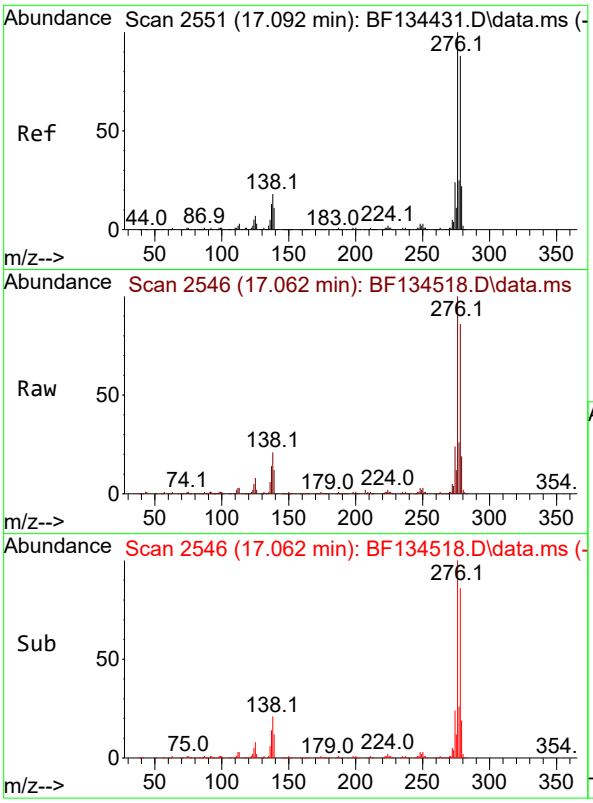


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.515 min Scan# 2283
Delta R.T. 0.000 min
Lab File: BF134518.D
Acq: 28 Jul 2023 16:29

Tgt Ion:264 Resp: 199170

Ion	Ratio	Lower	Upper
264	100		
260	23.8	18.4	27.6
265	21.6	15.8	23.8

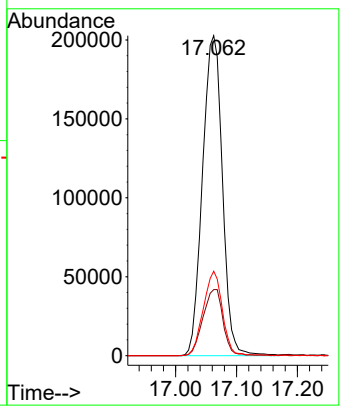




#87
Indeno(1,2,3-cd)pyrene
Concen: 35.388 ng
RT: 17.062 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF134518.D
Acq: 28 Jul 2023 16:29

Tgt Ion:276 Resp: 46046

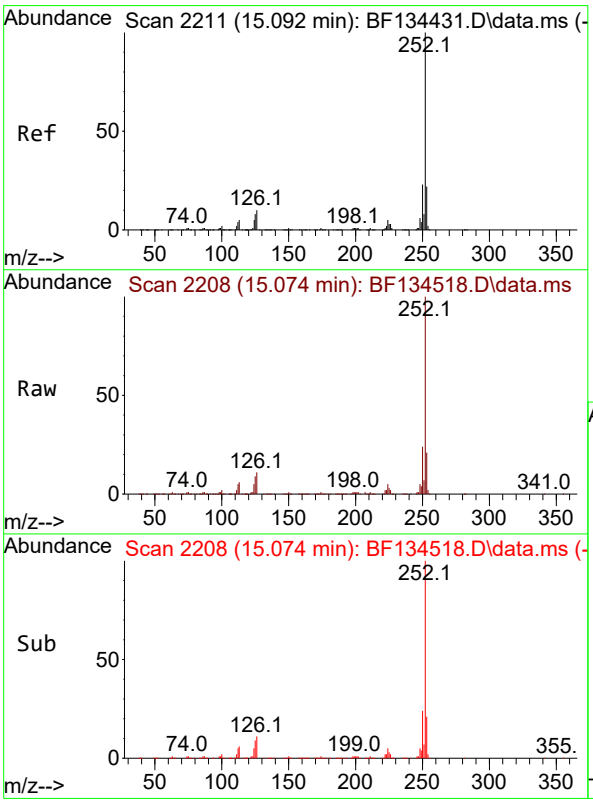
Ion	Ratio	Lower	Upper
276	100		
138	20.9	14.2	21.4
277	25.4	19.9	29.9



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

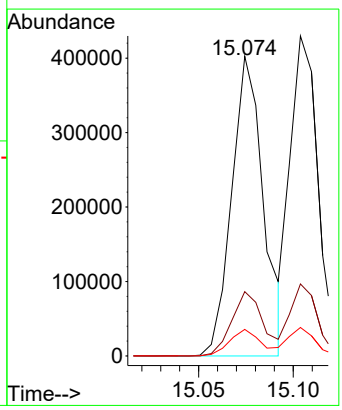
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/31/2023

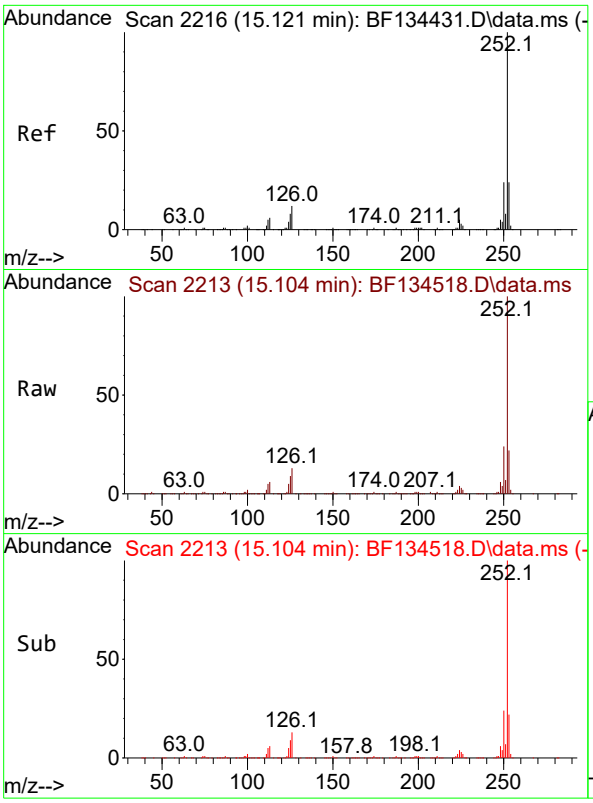


#88
Benzo(b)fluoranthene
Concen: 37.715 ng
RT: 15.074 min Scan# 2208
Delta R.T. 0.000 min
Lab File: BF134518.D
Acq: 28 Jul 2023 16:29

Tgt Ion:252 Resp: 469939

Ion	Ratio	Lower	Upper
252	100		
253	21.5	17.3	25.9
125	8.9	6.0	9.0

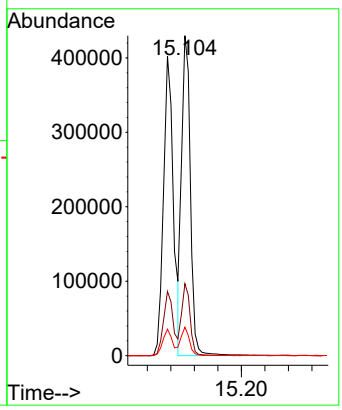




#89
Benzo(k)fluoranthene
Concen: 36.441 ng
RT: 15.104 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF134518.D
Acq: 28 Jul 2023 16:29

Tgt Ion:252 Resp: 44653

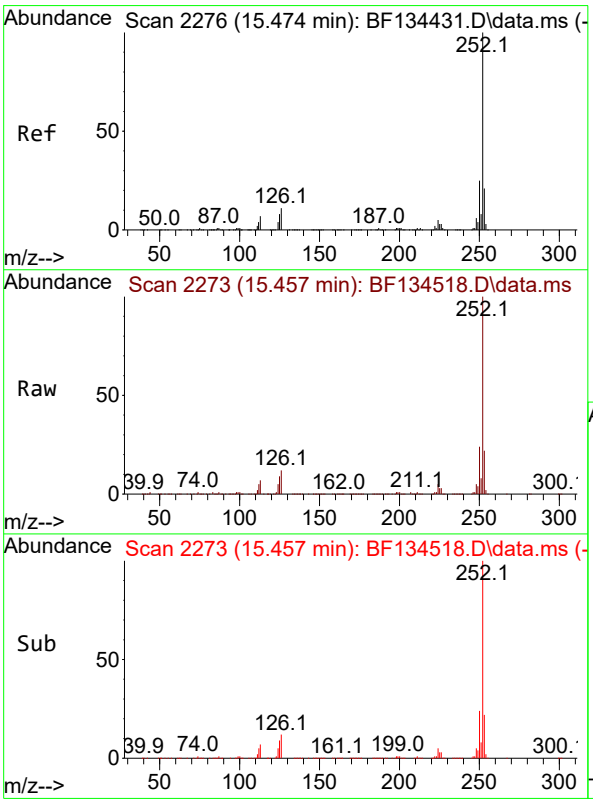
Ion	Ratio	Lower	Upper
252	100		
253	22.5	17.9	26.9
125	8.9	6.3	9.5



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

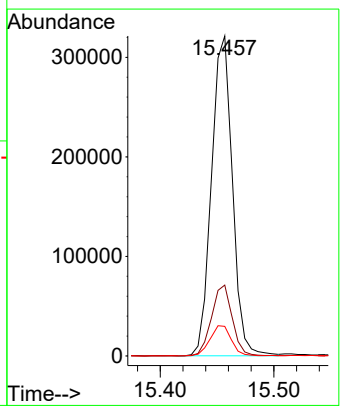
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/31/2023

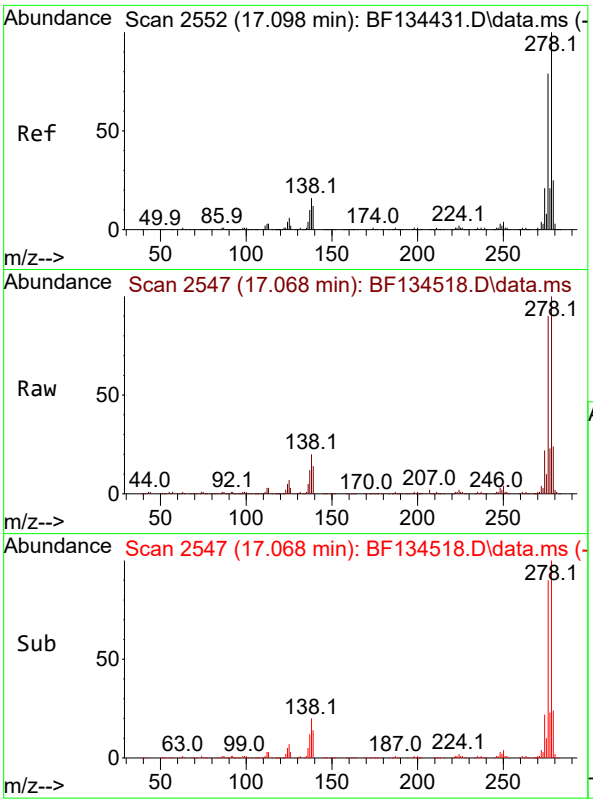


#90
Benzo(a)pyrene
Concen: 35.691 ng
RT: 15.457 min Scan# 2273
Delta R.T. 0.006 min
Lab File: BF134518.D
Acq: 28 Jul 2023 16:29

Tgt Ion:252 Resp: 411059

Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.0	25.4
125	9.3	6.2	9.4

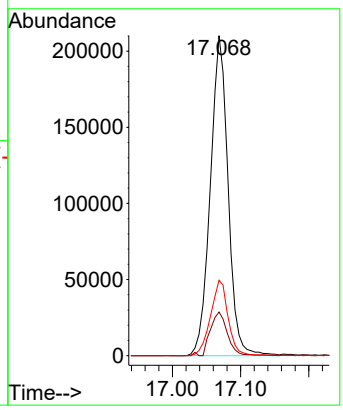




#91
Dibenzo(a,h)anthracene
Concen: 36.288 ng
RT: 17.068 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF134518.D
Acq: 28 Jul 2023 16:29

Tgt Ion:278 Resp: 38132

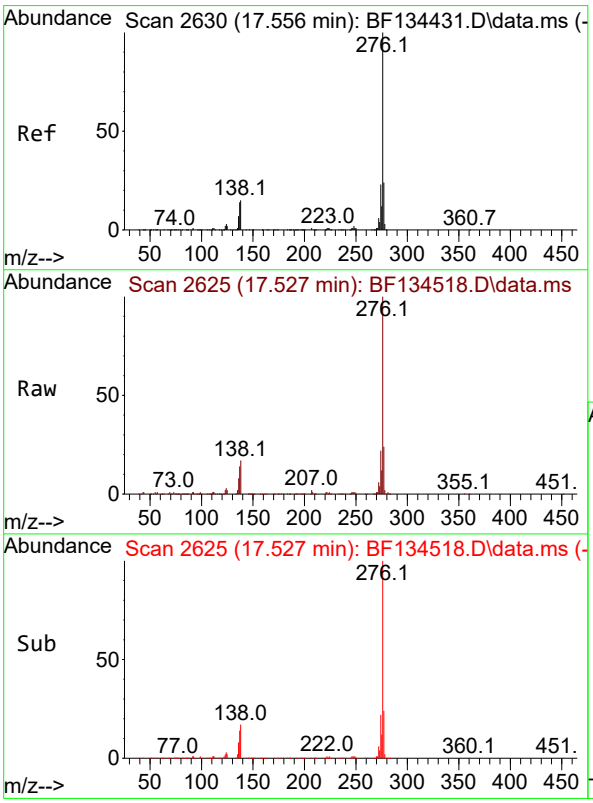
Ion	Ratio	Lower	Upper
278	100		
139	13.7	10.0	15.0
279	23.6	19.7	29.5



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

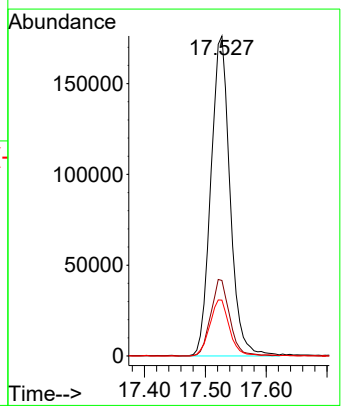
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/31/2023



#92
Benzo(g,h,i)perylene
Concen: 35.646 ng
RT: 17.527 min Scan# 2625
Delta R.T. 0.006 min
Lab File: BF134518.D
Acq: 28 Jul 2023 16:29

Tgt Ion:276 Resp: 384616

Ion	Ratio	Lower	Upper
276	100		
277	23.6	19.0	28.6
138	17.5	12.2	18.2



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF072823\
Data File : BF134518.D
Acq On : 28 Jul 2023 16:29
Operator : CG\JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Jul 28 18:13:59 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF072423.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jul 27 12:16:03 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	20.000	20.000	0.0	180	0.00
2		1,4-Dioxane	40.000	32.295	19.3	147	0.00
3		Pyridine	40.000	38.653	3.4	163	0.01
4		n-Nitrosodimethylamine	40.000	32.833	17.9	145	0.00
5	S	2-Fluorophenol	80.000	77.532	3.1	167	0.00
6		Aniline	40.000	39.893	0.3	175	0.00
7	S	Phenol-d6	80.000	76.301	4.6	171	0.00
8		2-Chlorophenol	40.000	37.819	5.5	166	0.00
9		Benzaldehyde	40.000	36.735	8.2	175	0.00
10	C	Phenol	40.000	38.349	4.1	170	0.00
11		bis(2-Chloroethyl)ether	40.000	40.805	-2.0	185	0.00
12		1,3-Dichlorobenzene	40.000	37.980	5.1	164	0.00
13	C	1,4-Dichlorobenzene	40.000	37.375	6.6	164	0.00
14		1,2-Dichlorobenzene	40.000	37.468	6.3	169	0.00
15		Benzyl Alcohol	40.000	38.726	3.2	164	0.00
16		2,2'-oxybis(1-Chloropropane	40.000	43.867	-9.7	197	0.00
17		2-Methylphenol	40.000	37.899	5.3	166	0.00
18		Hexachloroethane	40.000	36.142	9.6	163	0.00
19	P	n-Nitroso-di-n-propylamine	40.000	40.461	-1.2	181	0.00
20		3+4-Methylphenols	40.000	37.553	6.1	166	0.00
21	I	Naphthalene-d8	20.000	20.000	0.0	194	0.00
22		Acetophenone	40.000	35.692	10.8	171	0.00
23	S	Nitrobenzene-d5	80.000	71.304	10.9	169	0.00
24		Nitrobenzene	40.000	36.373	9.1	177	0.00
25		Isophorone	40.000	39.644	0.9	190	0.00
26	C	2-Nitrophenol	40.000	38.572	3.6	182	0.00
27		2,4-Dimethylphenol	40.000	37.721	5.7	181	0.00
28		bis(2-Chloroethoxy)methane	40.000	40.105	-0.3	194	0.00
29	C	2,4-Dichlorophenol	40.000	37.541	6.1	178	0.00
30		1,2,4-Trichlorobenzene	40.000	35.987	10.0	170	0.00
31		Naphthalene	40.000	36.746	8.1	175	0.00
32		Benzoic acid	40.000	39.686	0.8	181	0.00
33		4-Chloroaniline	40.000	38.530	3.7	182	0.00
34	C	Hexachlorobutadiene	40.000	34.937	12.7	165	0.00
35		Caprolactam	40.000	42.048	-5.1	196	0.00
36	C	4-Chloro-3-methylphenol	40.000	38.295	4.3	182	0.00
37		2-Methylnaphthalene	40.000	37.952	5.1	181	0.00
38		1-Methylnaphthalene	40.000	37.851	5.4	181	0.00
39	I	Acenaphthene-d10	20.000	20.000	0.0	191	0.00
40		1,2,4,5-Tetrachlorobenzene	40.000	34.868	12.8	181	0.00
41	P	Hexachlorocyclopentadiene	40.000	39.834	0.4	201	0.00
42	S	2,4,6-Tribromophenol	80.000	72.945	8.8	169	0.00
43	C	2,4,6-Trichlorophenol	40.000	36.314	9.2	169	0.00
44		2,4,5-Trichlorophenol	40.000	35.820	10.4	165	0.00
45	S	2-Fluorobiphenyl	80.000	68.817	14.0	161	0.00
46		1,1'-Biphenyl	40.000	35.164	12.1	165	0.00
47		2-Chloronaphthalene	40.000	34.935	12.7	164	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF072823\
Data File : BF134518.D
Acq On : 28 Jul 2023 16:29
Operator : CG\JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Jul 28 18:13:59 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF072423.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jul 27 12:16:03 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
48		2-Nitroaniline	40.000	35.719	10.7	162	0.00
49		Acenaphthylene	40.000	34.932	12.7	162	0.00
50		Dimethylphthalate	40.000	36.891	7.8	172	0.00
51		2,6-Dinitrotoluene	40.000	36.898	7.8	169	0.00
52	C	Acenaphthene	40.000	35.348	11.6	164	0.00
53		3-Nitroaniline	40.000	36.919	7.7	170	0.00
54	P	2,4-Dinitrophenol	40.000	35.564	11.1	173	0.00
55		Dibenzofuran	40.000	35.390	11.5	165	0.00
56	P	4-Nitrophenol	40.000	39.516	1.2	183	0.00
57		2,4-Dinitrotoluene	40.000	35.863	10.3	162	0.00
58		Fluorene	40.000	36.291	9.3	169	0.00
59		2,3,4,6-Tetrachlorophenol	40.000	38.630	3.4	180	0.00
60		Diethylphthalate	40.000	38.506	3.7	181	0.00
61		4-Chlorophenyl-phenylether	40.000	37.054	7.4	172	0.00
62		4-Nitroaniline	40.000	34.132	14.7	155	0.00
63		Azobenzene	40.000	38.548	3.6	181	0.00
64	I	Phenanthrene-d10	20.000	20.000	0.0	194	0.00
65		4,6-Dinitro-2-methylphenol	40.000	37.485	6.3	173	0.00
66	c	n-Nitrosodiphenylamine	40.000	36.386	9.0	172	0.00
67		4-Bromophenyl-phenylether	40.000	37.072	7.3	178	0.00
68		Hexachlorobenzene	40.000	36.025	9.9	173	0.00
69		Atrazine	40.000	37.087	7.3	172	0.00
70	C	Pentachlorophenol	40.000	40.463	-1.2	189	0.00
71		Phenanthrene	40.000	35.017	12.5	166	0.00
72		Anthracene	40.000	35.045	12.4	165	0.00
73		Carbazole	40.000	34.714	13.2	166	0.00
74		Di-n-butylphthalate	40.000	38.588	3.5	183	0.00
75	C	Fluoranthene	40.000	33.441	16.4	161	0.00
76	I	Chrysene-d12	20.000	20.000	0.0	161	0.00
77		Benzidine	40.000	34.205	14.5	134	0.00
78		Pyrene	40.000	39.055	2.4	157	0.00
79	S	Terphenyl-d14	80.000	77.256	3.4	155	0.00
80		Butylbenzylphthalate	40.000	41.391	-3.5	162	0.00
81		Benzo(a)anthracene	40.000	35.330	11.7	143	0.00
82		3,3'-Dichlorobenzidine	40.000	33.308	16.7	134	0.00
83		Chrysene	40.000	35.579	11.1	142	0.00
84		Bis(2-ethylhexyl)phthalate	40.000	44.625	-11.6	176	0.00
85	c	Di-n-octyl phthalate	40.000	45.390	-13.5	180	0.00
86	I	Perylene-d12	20.000	20.000	0.0	146	0.00
87		Indeno(1,2,3-cd)pyrene	40.000	35.388	11.5	124	0.00
88		Benzo(b)fluoranthene	40.000	37.715	5.7	142	0.00
89		Benzo(k)fluoranthene	40.000	36.441	8.9	128	0.00
90	C	Benzo(a)pyrene	40.000	35.691	10.8	129	0.00
91		Dibenzo(a,h)anthracene	40.000	36.288	9.3	127	0.00
92		Benzo(g,h,i)perylene	40.000	35.646	10.9	126	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF072823\
Data File : BF134518.D
Acq On : 28 Jul 2023 16:29
Operator : CG\JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Jul 28 18:13:59 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF072423.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jul 27 12:16:03 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF072823\
Data File : BF134518.D
Acq On : 28 Jul 2023 16:29
Operator : CG\JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Jul 28 18:13:59 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF072423.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jul 27 12:16:03 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	180#	0.00
2		1,4-Dioxane	0.513	0.415	19.1	147	0.00
3		Pyridine	1.153	1.114	3.4	163#	0.01
4		n-Nitrosodimethylamine	0.681	0.559	17.9	145	0.00
5	S	2-Fluorophenol	1.211	1.173	3.1	167#	0.00
6		Aniline	1.748	1.743	0.3	175#	0.00
7	S	Phenol-d6	1.483	1.415	4.6	171#	0.00
8		2-Chlorophenol	1.226	1.159	5.5	166#	0.00
9		Benzaldehyde	0.794	0.729	8.2	175#	0.00
10	C	Phenol	1.543	1.479	4.1	170#	0.00
11		bis(2-Chloroethyl)ether	1.077	1.099	-2.0	185#	0.00
12		1,3-Dichlorobenzene	1.319	1.252	5.1	164#	0.00
13	C	1,4-Dichlorobenzene	1.357	1.268	6.6	164#	0.00
14		1,2-Dichlorobenzene	1.275	1.194	6.4	169#	0.00
15		Benzyl Alcohol	1.145	1.109	3.1	164#	0.00
16		2,2'-oxybis(1-Chloropropane	1.586	1.740	-9.7	197#	0.00
17		2-Methylphenol	1.094	1.036	5.3	166#	0.00
18		Hexachloroethane	0.521	0.471	9.6	163#	0.00
19	P	n-Nitroso-di-n-propylamine	0.923	0.934	-1.2	181#	0.00
20		3+4-Methylphenols	1.400	1.315	6.1	166#	0.00
21	I	Naphthalene-d8	1.000	1.000	0.0	194#	0.00
22		Acetophenone	0.497	0.444	10.7	171#	0.00
23	S	Nitrobenzene-d5	0.395	0.352	10.9	169#	0.00
24		Nitrobenzene	0.393	0.357	9.2	177#	0.00
25		Isophorone	0.659	0.653	0.9	190#	0.00
26	C	2-Nitrophenol	0.181	0.174	3.9	182#	0.00
27		2,4-Dimethylphenol	0.285	0.269	5.6	181#	0.00
28		bis(2-Chloroethoxy)methane	0.367	0.368	-0.3	194#	0.00
29	C	2,4-Dichlorophenol	0.285	0.268	6.0	178#	0.00
30		1,2,4-Trichlorobenzene	0.308	0.277	10.1	170#	0.00
31		Naphthalene	0.995	0.914	8.1	175#	0.00
32		Benzoic acid	0.191	0.189	1.0	181#	0.00
33		4-Chloroaniline	0.411	0.396	3.6	182#	0.00
34	C	Hexachlorobutadiene	0.206	0.180	12.6	165#	0.00
35		Caprolactam	0.087	0.092	-5.7	196#	0.00
36	C	4-Chloro-3-methylphenol	0.329	0.315	4.3	182#	0.00
37		2-Methylnaphthalene	0.692	0.656	5.2	181#	0.00
38		1-Methylnaphthalene	0.642	0.607	5.5	181#	0.00
39	I	Acenaphthene-d10	1.000	1.000	0.0	191#	0.00
40		1,2,4,5-Tetrachlorobenzene	0.634	0.552	12.9	181#	0.00
41	P	Hexachlorocyclopentadiene	0.152	0.159	-4.6	201#	0.00
42	S	2,4,6-Tribromophenol	0.284	0.259	8.8	169#	0.00
43	C	2,4,6-Trichlorophenol	0.407	0.369	9.3	169#	0.00
44		2,4,5-Trichlorophenol	0.474	0.424	10.5	165#	0.00
45	S	2-Fluorobiphenyl	1.523	1.310	14.0	161#	0.00
46		1,1'-Biphenyl	1.648	1.449	12.1	165#	0.00
47		2-Chloronaphthalene	1.215	1.061	12.7	164#	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF072823\
Data File : BF134518.D
Acq On : 28 Jul 2023 16:29
Operator : CG\JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Jul 28 18:13:59 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF072423.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jul 27 12:16:03 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
48		2-Nitroaniline	0.438	0.391	10.7	162#	0.00
49		Acenaphthylene	2.053	1.793	12.7	162#	0.00
50		Dimethylphthalate	1.483	1.367	7.8	172#	0.00
51		2,6-Dinitrotoluene	0.325	0.300	7.7	169#	0.00
52	C	Acenaphthene	1.213	1.072	11.6	164#	0.00
53		3-Nitroaniline	0.373	0.344	7.8	170#	0.00
54	P	2,4-Dinitrophenol	0.143	0.135	5.6	173#	0.00
55		Dibenzofuran	1.867	1.651	11.6	165#	0.00
56	P	4-Nitrophenol	0.199	0.196	1.5	183#	0.00
57		2,4-Dinitrotoluene	0.437	0.392	10.3	162#	0.00
58		Fluorene	1.506	1.366	9.3	169#	0.00
59		2,3,4,6-Tetrachlorophenol	0.364	0.351	3.6	180#	0.00
60		Diethylphthalate	1.535	1.478	3.7	181#	0.00
61		4-Chlorophenyl-phenylether	0.719	0.666	7.4	172#	0.00
62		4-Nitroaniline	0.383	0.327	14.6	155#	0.00
63		Azobenzene	1.413	1.362	3.6	181#	0.00
64	I	Phenanthrene-d10	1.000	1.000	0.0	194#	0.00
65		4,6-Dinitro-2-methylphenol	0.115	0.108	6.1	173#	0.00
66	c	n-Nitrosodiphenylamine	0.636	0.579	9.0	172#	0.00
67		4-Bromophenyl-phenylether	0.219	0.203	7.3	178#	0.00
68		Hexachlorobenzene	0.247	0.222	10.1	173#	0.00
69		Atrazine	0.177	0.164	7.3	172#	0.00
70	C	Pentachlorophenol	0.104	0.105	-1.0	189#	0.00
71		Phenanthrene	1.045	0.915	12.4	166#	0.00
72		Anthracene	1.079	0.945	12.4	165#	0.00
73		Carbazole	1.016	0.881	13.3	166#	0.00
74		Di-n-butylphthalate	1.166	1.125	3.5	183#	0.00
75	C	Fluoranthene	1.218	1.018	16.4	161#	0.00
76	I	Chrysene-d12	1.000	1.000	0.0	161#	0.00
77		Benzidine	0.427	0.365	14.5	134	0.00
78		Pyrene	1.590	1.553	2.3	157#	0.00
79	S	Terphenyl-d14	1.146	1.106	3.5	155#	0.00
80		Butylbenzylphthalate	0.637	0.659	-3.5	162#	0.00
81		Benzo(a)anthracene	1.395	1.232	11.7	143	0.00
82		3,3'-Dichlorobenzidine	0.442	0.368	16.7	134	0.00
83		Chrysene	1.335	1.187	11.1	142	0.00
84		Bis(2-ethylhexyl)phthalate	0.774	0.863	-11.5	176#	0.00
85	c	Di-n-octyl phthalate	1.075	1.220	-13.5	180#	0.00
86	I	Perylene-d12	1.000	1.000	0.0	146	0.00
87		Indeno(1,2,3-cd)pyrene	1.307	1.156	11.6	124	0.00
88		Benzo(b)fluoranthene	1.251	1.180	5.7	142	0.00
89		Benzo(k)fluoranthene	1.230	1.121	8.9	128	0.00
90	C	Benzo(a)pyrene	1.157	1.032	10.8	129	0.00
91		Dibenzo(a,h)anthracene	1.055	0.957	9.3	127	0.00
92		Benzo(g,h,i)perylene	1.083	0.966	10.8	126	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF072823\
Data File : BF134518.D
Acq On : 28 Jul 2023 16:29
Operator : CG\JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Jul 28 18:13:59 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF072423.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jul 27 12:16:03 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)

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

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM Case No.: O3645 SAS No.: O3645 SDG No.: O3645

Instrument ID: BNA_F Calibration Date/Time: 08/01/2023 14:27

Lab File ID: BF134547.D Init. Calib. Date(s): 08/01/2023 08/01/2023

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 07:51 11:47

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.316	1.223		-7.1	
Benzaldehyde	0.917	0.752		-18.0	
Phenol-d6	1.682	1.592		-5.4	
Phenol	1.657	1.566		-5.5	20.0
bis(2-Chloroethyl)ether	1.317	1.262		-4.2	
2-Chlorophenol	1.327	1.292		-2.6	
2-Methylphenol	1.173	1.131		-3.6	
2,2-oxybis(1-Chloropropane)	2.063	1.983		-3.9	
Acetophenone	0.462	0.421		-8.9	
3+4-Methylphenols	1.414	1.345		-4.9	
n-Nitroso-di-n-propylamine	1.007	0.939	0.050	-6.8	
Nitrobenzene-d5	0.320	0.333		4.1	
Hexachloroethane	0.483	0.477		-1.2	
Nitrobenzene	0.346	0.350		1.2	
Isophorone	0.698	0.655		-6.2	
2-Nitrophenol	0.122	0.147		20.5	20.0
2,4-Dimethylphenol	0.311	0.295		-5.1	
bis(2-Chloroethoxy)methane	0.418	0.397		-5.0	
2,4-Dichlorophenol	0.283	0.270		-4.6	20.0
Naphthalene	1.005	0.928		-7.7	
4-Chloroaniline	0.448	0.409		-8.7	
Hexachlorobutadiene	0.174	0.165		-5.2	20.0
Caprolactam	0.091	0.087		-4.4	
4-Chloro-3-methylphenol	0.299	0.284		-5.0	20.0
2-Methylnaphthalene	0.666	0.621		-6.8	
Hexachlorocyclopentadiene	0.283	0.291	0.050	2.8	
2,4,6-Trichlorophenol	0.381	0.373		-2.1	20.0
2-Fluorobiphenyl	1.203	1.132		-5.9	
2,4,5-Trichlorophenol	0.435	0.430		-1.1	
1,1-Biphenyl	1.555	1.466		-5.7	
2-Chloronaphthalene	1.165	1.093		-6.2	
2-Nitroaniline	0.316	0.362		14.6	
Dimethylphthalate	1.363	1.295		-5.0	
Acenaphthylene	1.832	1.718		-6.2	
2,6-Dinitrotoluene	0.248	0.279		12.5	
3-Nitroaniline	0.304	0.331		8.9	
Acenaphthene	1.187	1.129		-4.9	20.0
2,4-Dinitrophenol	0.079	0.089	0.050	12.7	
4-Nitrophenol	0.248	0.250	0.050	0.8	
Dibenzofuran	1.690	1.581		-6.4	
2,4-Dinitrotoluene	0.292	0.345		18.2	

Form VII SV-1

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM Case No.: O3645 SAS No.: O3645 SDG No.: O3645

Instrument ID: BNA_F Calibration Date/Time: 08/01/2023 14:27

Lab File ID: BF134547.D Init. Calib. Date(s): 08/01/2023 08/01/2023

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 07:51 11:47

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Diethylphthalate	1.292	1.240		-4.0	
4-Chlorophenyl-phenylether	0.605	0.560		-7.4	
Fluorene	1.231	1.118		-9.2	
4-Nitroaniline	0.298	0.315		5.7	
4,6-Dinitro-2-methylphenol	0.069	0.076		10.1	
n-Nitrosodiphenylamine	0.637	0.604		-5.2	20.0
2,4,6-Tribromophenol	0.204	0.206		1.0	
4-Bromophenyl-phenylether	0.219	0.210		-4.1	
Hexachlorobenzene	0.231	0.219		-5.2	
Atrazine	0.172	0.170		-1.2	
Pentachlorophenol	0.143	0.152		6.3	20.0
Phenanthrene	1.062	0.995		-6.3	
Anthracene	1.085	1.004		-7.5	
Carbazole	0.969	0.896		-7.5	
Di-n-butylphthalate	1.029	1.012		-1.7	
Fluoranthene	1.122	1.038		-7.5	20.0
Pyrene	1.731	1.672		-3.4	
Terphenyl-d14	1.135	1.091		-3.9	
Butylbenzylphthalate	0.585	0.625		6.8	
3,3-Dichlorobenzidine	0.415	0.407		-1.9	
Benzo(a)anthracene	1.430	1.385		-3.1	
Chrysene	1.393	1.339		-3.9	
Bis(2-ethylhexyl)phthalate	0.689	0.716		3.9	
Di-n-octyl phthalate	1.047	1.095		4.6	20.0
Benzo(b)fluoranthene	1.220	1.171		-4.0	
Benzo(k)fluoranthene	1.215	1.195		-1.6	
Benzo(a)pyrene	1.137	1.101		-3.2	20.0
Indeno(1,2,3-cd)pyrene	1.176	1.164		-1.0	
Dibenzo(a,h)anthracene	0.951	0.962		1.2	
Benzo(g,h,i)perylene	0.970	0.963		-0.7	
1,2,4,5-Tetrachlorobenzene	0.582	0.543		-6.7	
1,4-Dioxane	0.605	0.560		-7.4	20.0
2,3,4,6-Tetrachlorophenol	0.344	0.338		-1.7	

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080123\
Data File : BF134547.D
Acq On : 01 Aug 2023 14:27
Operator : CG\JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 02 02:43:05 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 02 02:20:34 2023
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.792	152	220485	20.000	ng		0.00
21) Naphthalene-d8	8.075	136	863869	20.000	ng	#	0.00
39) Acenaphthene-d10	9.828	164	433432	20.000	ng		0.00
64) Phenanthrene-d10	11.316	188	785259	20.000	ng	#	0.00
76) Chrysene-d12	13.963	240	498206	20.000	ng		0.00
86) Perylene-d12	15.415	264	453778	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.416	112	1078872	74.381	ng		0.00
7) Phenol-d6	6.428	99	1403758	75.709	ng		0.00
23) Nitrobenzene-d5	7.357	82	1150891	83.256	ng		0.00
42) 2,4,6-Tribromophenol	10.616	330	357482	80.907	ng		0.00
45) 2-Fluorobiphenyl	9.151	172	1962270	75.275	ng		0.00
79) Terphenyl-d14	12.910	244	2173886	76.921	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.557	88	246814	36.984	ng		96
3) Pyridine	3.299	79	679650	37.584	ng		93
4) n-Nitrosodimethylamine	3.269	42	331092	38.319	ng	#	69
6) Aniline	6.463	93	922213	37.921	ng		92
8) 2-Chlorophenol	6.581	128	569630	38.931	ng		94
9) Benzaldehyde	6.345	77	331514	35.734	ng		98
10) Phenol	6.440	94	690580m	37.795	ng		
11) bis(2-Chloroethyl)ether	6.540	93	556431	38.335	ng		92
12) 1,3-Dichlorobenzene	6.734	146	573712	37.898	ng		97
13) 1,4-Dichlorobenzene	6.810	146	569533	37.539	ng		99
14) 1,2-Dichlorobenzene	6.963	146	534475	37.809	ng		97
15) Benzyl Alcohol	6.939	79	496454	38.812	ng		93
16) 2,2'-oxybis(1-Chloropr...	7.075	45	874641	38.463	ng		88
17) 2-Methylphenol	7.045	107	498816	38.580	ng		93
18) Hexachloroethane	7.304	117	210159	39.467	ng		99
19) n-Nitroso-di-n-propyla...	7.216	70	414017	37.295	ng		90
20) 3+4-Methylphenols	7.198	107	592885	38.023	ng	#	70
22) Acetophenone	7.204	105	727606	36.484	ng	#	91
24) Nitrobenzene	7.375	77	604513	40.478	ng		100
25) Isophorone	7.616	82	1130866	37.507	ng		98
26) 2-Nitrophenol	7.692	139	253546	40.707	ng	#	87
27) 2,4-Dimethylphenol	7.728	122	509523	37.874	ng		86
28) bis(2-Chloroethoxy)met...	7.828	93	685570	38.011	ng		99
29) 2,4-Dichlorophenol	7.928	162	466624	38.217	ng		97
30) 1,2,4-Trichlorobenzene	8.016	180	494525	37.981	ng		99
31) Naphthalene	8.098	128	1603497	36.933	ng		99
32) Benzoic acid	7.845	122	345390	40.774	ng		89
33) 4-Chloroaniline	8.145	127	705854	36.487	ng		99
34) Hexachlorobutadiene	8.216	225	284678	37.905	ng		96
35) Caprolactam	8.522	113	150317	38.158	ng		91
36) 4-Chloro-3-methylphenol	8.622	107	491219	37.988	ng		91
37) 2-Methylnaphthalene	8.786	142	1072411	37.265	ng		100
38) 1-Methylnaphthalene	8.886	142	1001669	37.431	ng		99
40) 1,2,4,5-Tetrachloroben...	8.951	216	470529	37.332	ng		97
41) Hexachlorocyclopentadiene	8.939	237	252514	41.199	ng		91
43) 2,4,6-Trichlorophenol	9.063	196	323156	39.177	ng		96

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080123\
Data File : BF134547.D
Acq On : 01 Aug 2023 14:27
Operator : CG\JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 02 02:43:05 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 02 02:20:34 2023
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.098	196	372716	39.535	ng		91
46) 1,1'-Biphenyl	9.251	154	1270680	37.700	ng		97
47) 2-Chloronaphthalene	9.275	162	947519	37.518	ng		97
48) 2-Nitroaniline	9.369	65	313679	40.378	ng		98
49) Acenaphthylene	9.692	152	1489627	37.524	ng		99
50) Dimethylphthalate	9.557	163	1122995	38.014	ng		98
51) 2,6-Dinitrotoluene	9.616	165	242210	40.431	ng		88
52) Acenaphthene	9.863	154	978978	38.053	ng		98
53) 3-Nitroaniline	9.786	138	286641	43.533	ng		98
54) 2,4-Dinitrophenol	9.880	184	76990	41.901	ng		89
55) Dibenzofuran	10.033	168	1370571	37.424	ng		95
56) 4-Nitrophenol	9.933	139	217063	40.307	ng	#	78
57) 2,4-Dinitrotoluene	10.016	165	299386	41.370	ng	#	92
58) Fluorene	10.380	166	969176	36.332	ng		96
59) 2,3,4,6-Tetrachlorophenol	10.151	232	292802m	39.257	ng		
60) Diethylphthalate	10.257	149	1074611	38.377	ng		97
61) 4-Chlorophenyl-phenyle...	10.375	204	485037	36.992	ng		91
62) 4-Nitroaniline	10.398	138	273261	42.341	ng		89
63) Azobenzene	10.533	77	1123414	37.342	ng		98
65) 4,6-Dinitro-2-methylph...	10.422	198	119943	39.641	ng		93
66) n-Nitrosodiphenylamine	10.492	169	948547	37.951	ng		99
67) 4-Bromophenyl-phenylether	10.863	248	330514	38.449	ng		97
68) Hexachlorobenzene	10.922	284	343637	37.857	ng		99
69) Atrazine	11.022	200	266635	39.579	ng		97
70) Pentachlorophenol	11.110	266	238400	42.417	ng		96
71) Phenanthrene	11.339	178	1563111	37.476	ng		100
72) Anthracene	11.392	178	1577058	37.016	ng		99
73) Carbazole	11.545	167	1407093	36.990	ng		100
74) Di-n-butylphthalate	11.886	149	1588808	39.313	ng		98
75) Fluoranthene	12.527	202	1629705	36.989	ng		96
77) Benzidine	12.651	184	470254	43.482	ng		96
78) Pyrene	12.757	202	1666439	38.655	ng		97
80) Butylbenzylphthalate	13.392	149	622664	42.714	ng	#	95
81) Benzo(a)anthracene	13.945	228	1379999	38.738	ng		99
82) 3,3'-Dichlorobenzidine	13.916	252	405343	39.254	ng	#	99
83) Chrysene	13.986	228	1333978	38.435	ng		99
84) Bis(2-ethylhexyl)phtha...	13.957	149	713153	41.571	ng		100
85) Di-n-octyl phthalate	14.574	149	1091383	41.835	ng		97
87) Indeno(1,2,3-cd)pyrene	16.886	276	1056499	39.587	ng	#	92
88) Benzo(b)fluoranthene	14.992	252	1063120	38.414	ng	#	98
89) Benzo(k)fluoranthene	15.021	252	1084479	39.336	ng	#	98
90) Benzo(a)pyrene	15.357	252	999163	38.721	ng	#	98
91) Dibenzo(a,h)anthracene	16.909	278	872627	40.459	ng	#	95
92) Benzo(g,h,i)perylene	17.333	276	874057	39.729	ng	#	94

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

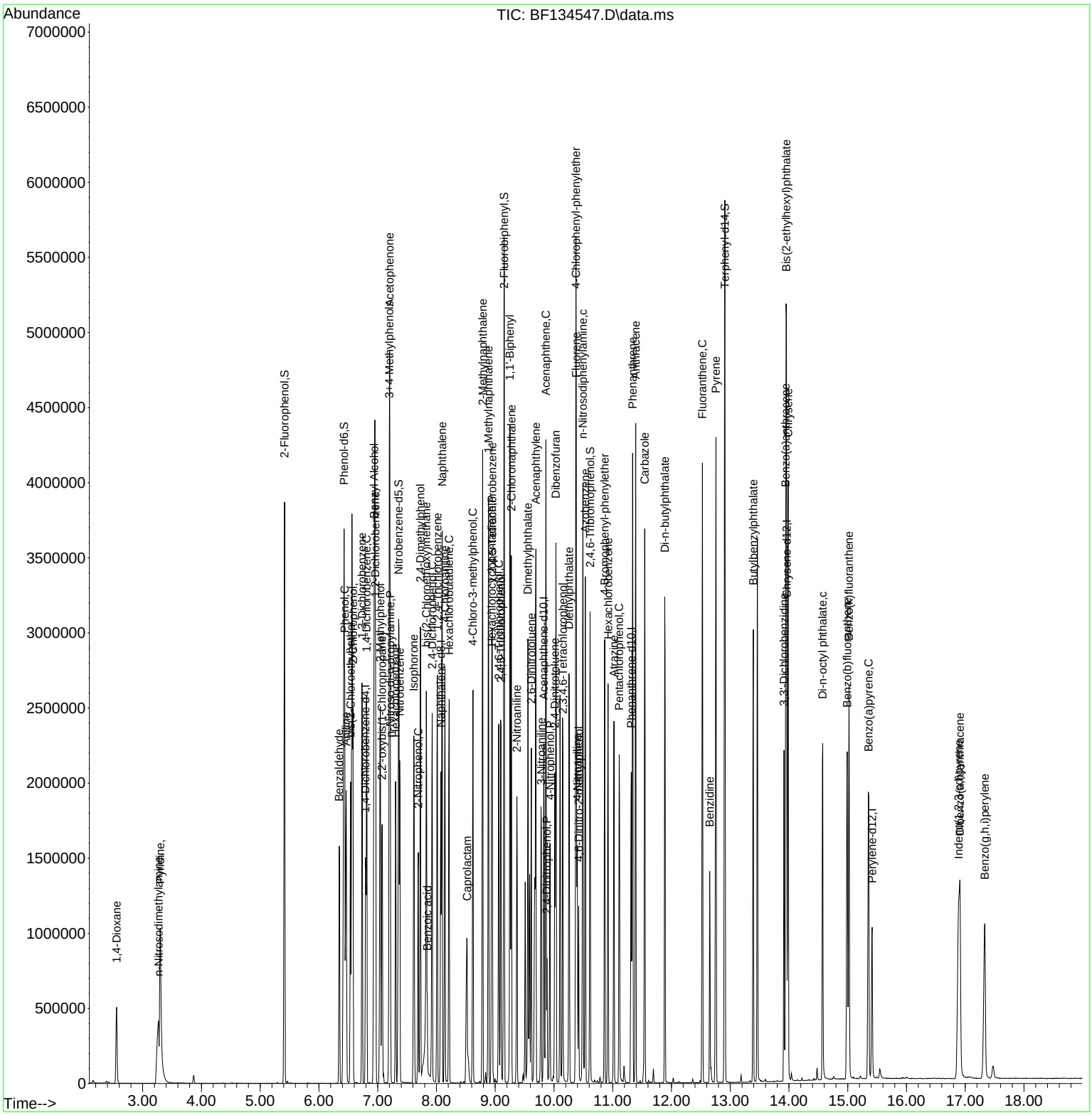
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080123\
Data File : BF134547.D
Acq On : 01 Aug 2023 14:27
Operator : CG\JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

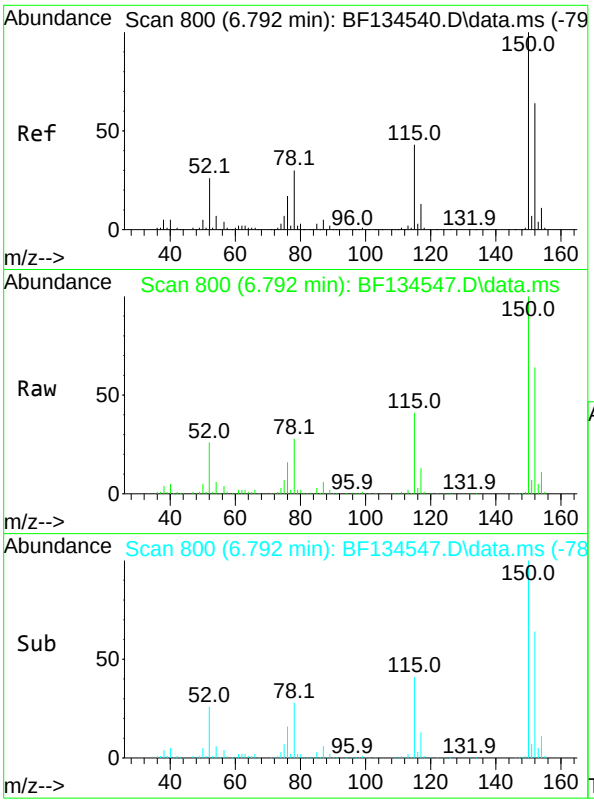
Quant Time: Aug 02 02:43:05 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 02 02:20:34 2023
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

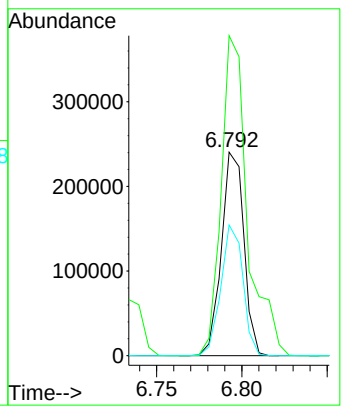




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.792 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF134547.D
Acq: 01 Aug 2023 14:27

Tgt Ion:152 Resp: 22048

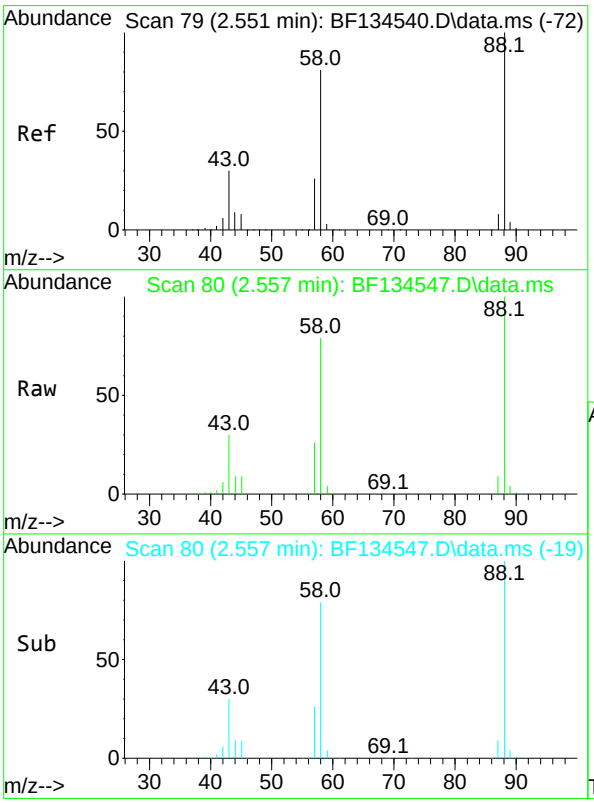
Ion	Ratio	Lower	Upper
152	100		
150	157.3	128.3	192.5
115	64.2	52.4	78.6



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

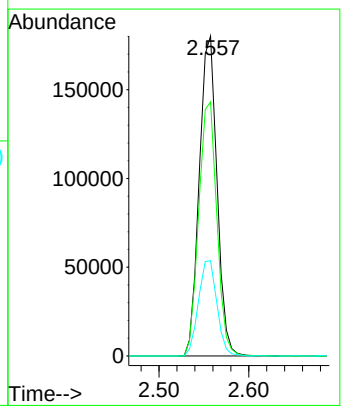
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

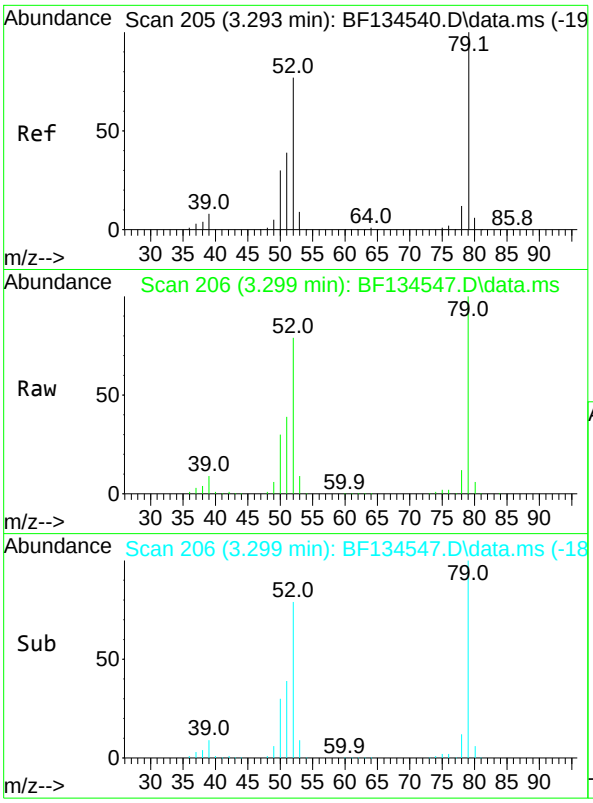


#2
1,4-Dioxane
Concen: 36.984 ng
RT: 2.557 min Scan# 80
Delta R.T. 0.006 min
Lab File: BF134547.D
Acq: 01 Aug 2023 14:27

Tgt Ion: 88 Resp: 246814

Ion	Ratio	Lower	Upper
88	100		
58	81.4	65.1	97.7
43	31.1	30.3	45.5

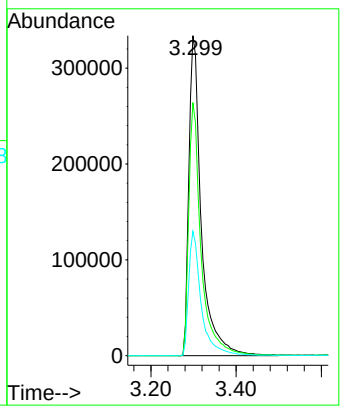




#3
Pyridine
Concen: 37.584 ng
RT: 3.299 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF134547.D
Acq: 01 Aug 2023 14:27

Tgt Ion: 79 Resp: 67965

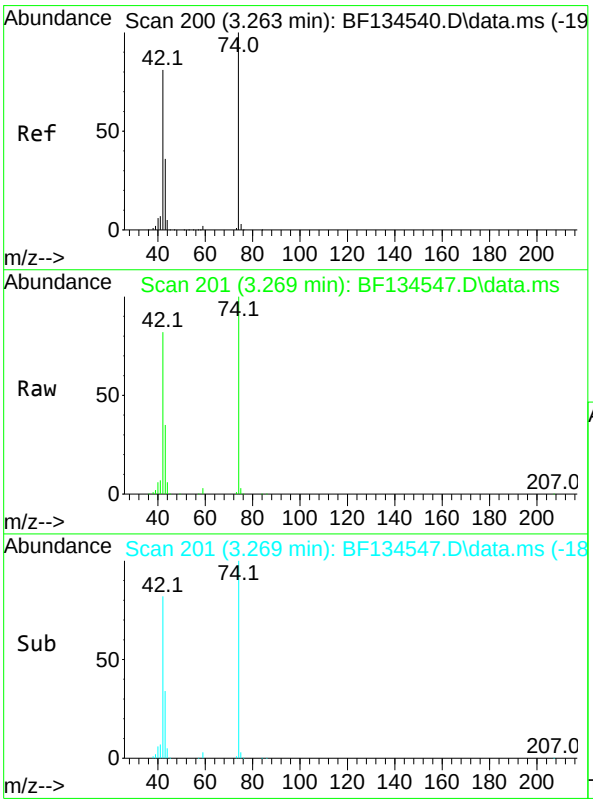
Ion	Ratio	Lower	Upper
79	100		
52	79.1	66.6	100.0
51	38.8	36.5	54.7



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

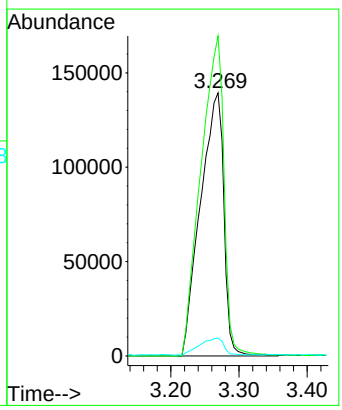
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

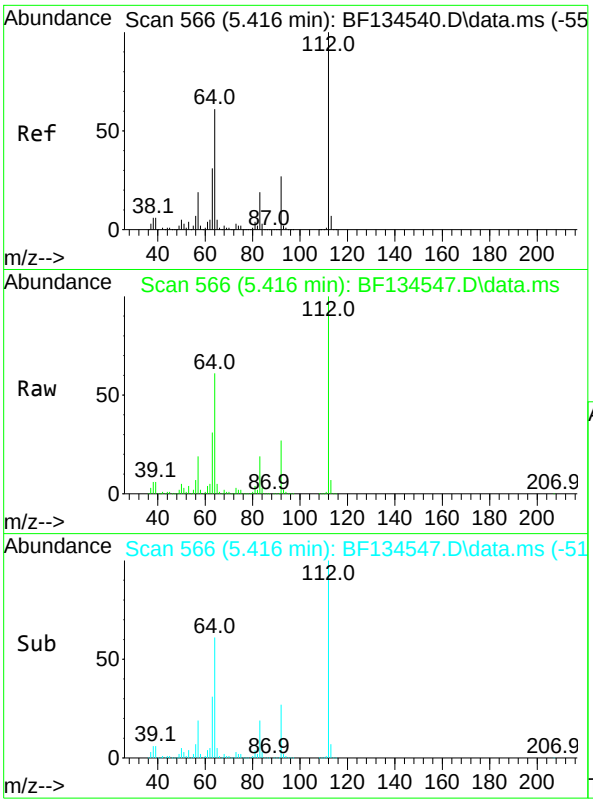


#4
n-Nitrosodimethylamine
Concen: 38.319 ng
RT: 3.269 min Scan# 201
Delta R.T. 0.006 min
Lab File: BF134547.D
Acq: 01 Aug 2023 14:27

Tgt Ion: 42 Resp: 331092

Ion	Ratio	Lower	Upper
42	100		
74	121.7	72.2	108.4#
44	6.8	5.4	8.0





#5
2-Fluorophenol
Concen: 74.381 ng
RT: 5.416 min Scan# 5
Delta R.T. 0.000 min
Lab File: BF134547.D
Acq: 01 Aug 2023 14:27

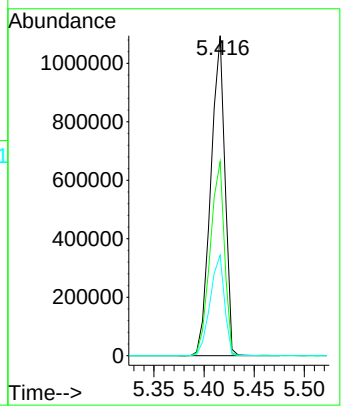
Tgt Ion:112 Resp: 107887

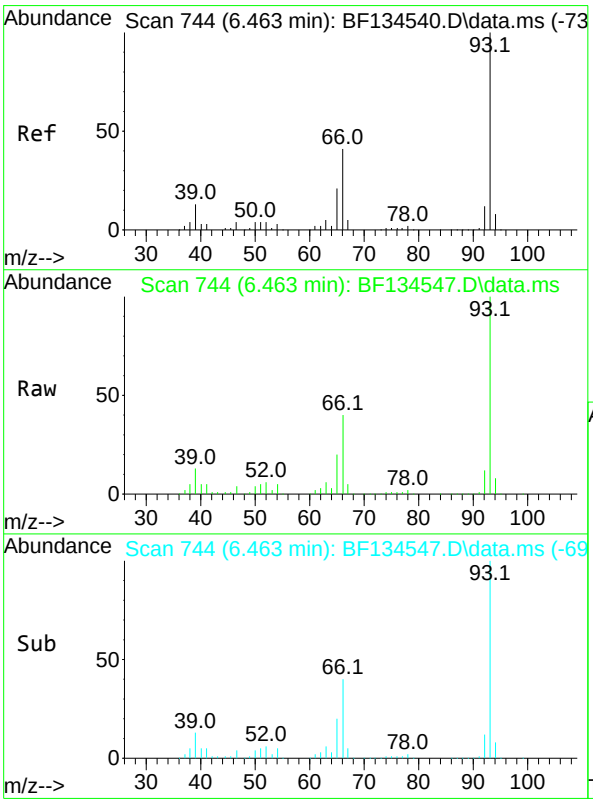
Ion	Ratio	Lower	Upper
112	100		
64	60.7	44.9	67.3
63	31.4	25.4	38.0

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

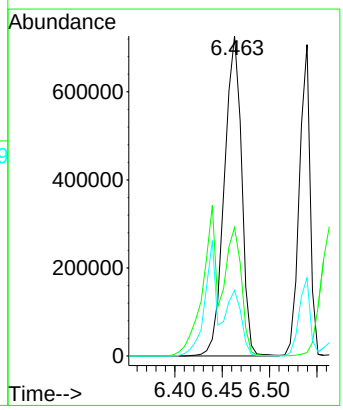


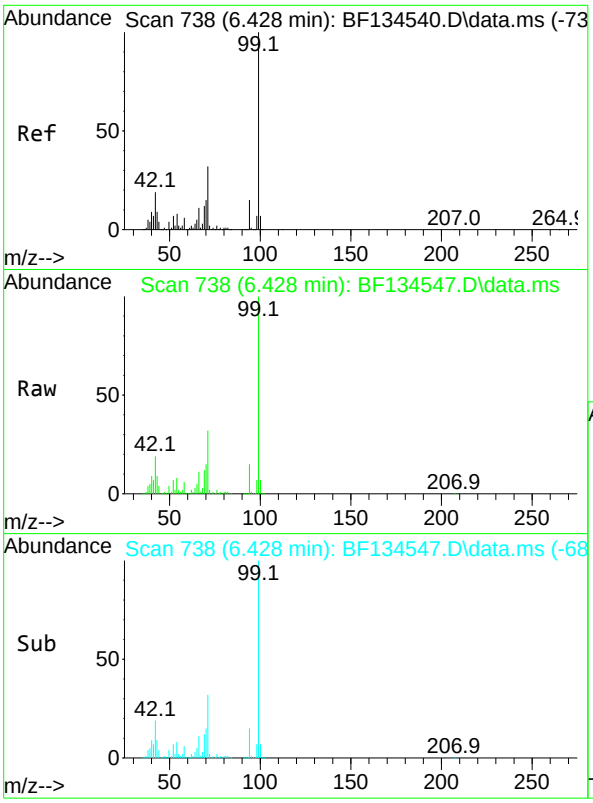


#6
Aniline
Concen: 37.921 ng
RT: 6.463 min Scan# 744
Delta R.T. 0.000 min
Lab File: BF134547.D
Acq: 01 Aug 2023 14:27

Tgt Ion: 93 Resp: 922213

Ion	Ratio	Lower	Upper
93	100		
66	40.2	36.8	55.2
65	20.5	19.4	29.0

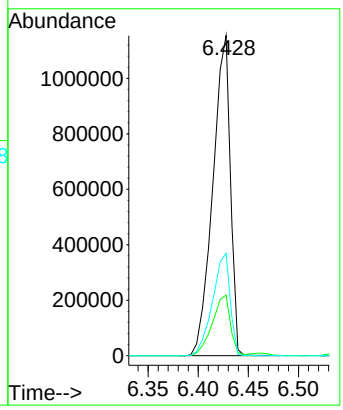




#7
Phenol-d6
Concen: 75.709 ng
RT: 6.428 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF134547.D
Acq: 01 Aug 2023 14:27

Tgt Ion: 99 Resp: 140375

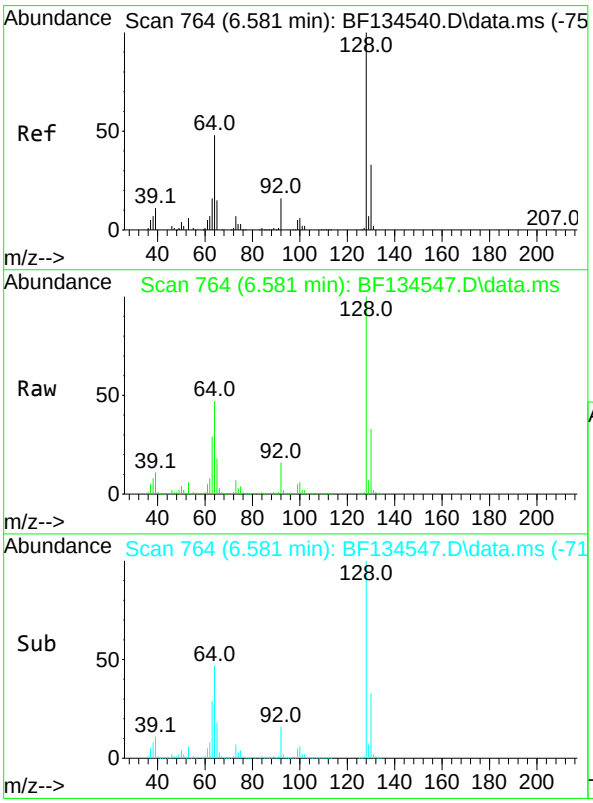
Ion	Ratio	Lower	Upper
99	100		
42	18.9	18.7	28.1
71	32.0	36.4	54.6



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

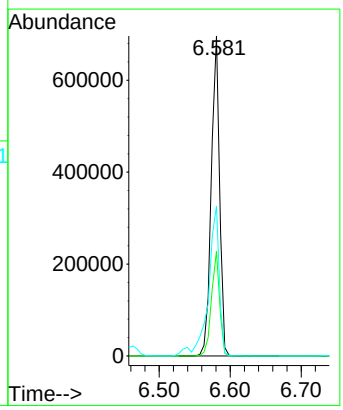
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

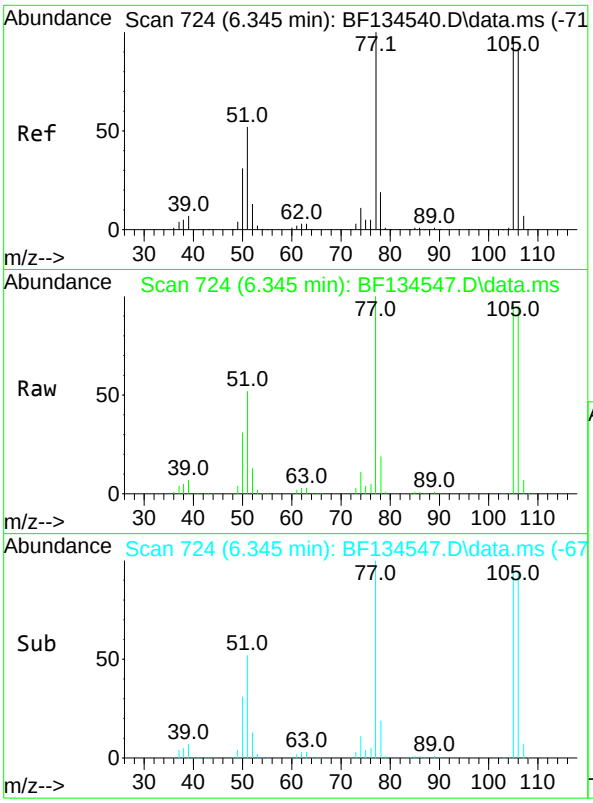


#8
2-Chlorophenol
Concen: 38.931 ng
RT: 6.581 min Scan# 764
Delta R.T. 0.000 min
Lab File: BF134547.D
Acq: 01 Aug 2023 14:27

Tgt Ion:128 Resp: 569630

Ion	Ratio	Lower	Upper
128	100		
130	32.7	11.1	51.1
64	46.9	31.9	71.9

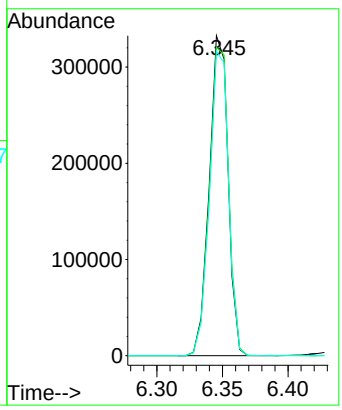




#9
Benzaldehyde
Concen: 35.734 ng
RT: 6.345 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF134547.D
Acq: 01 Aug 2023 14:27

Tgt Ion: 77 Resp: 33151

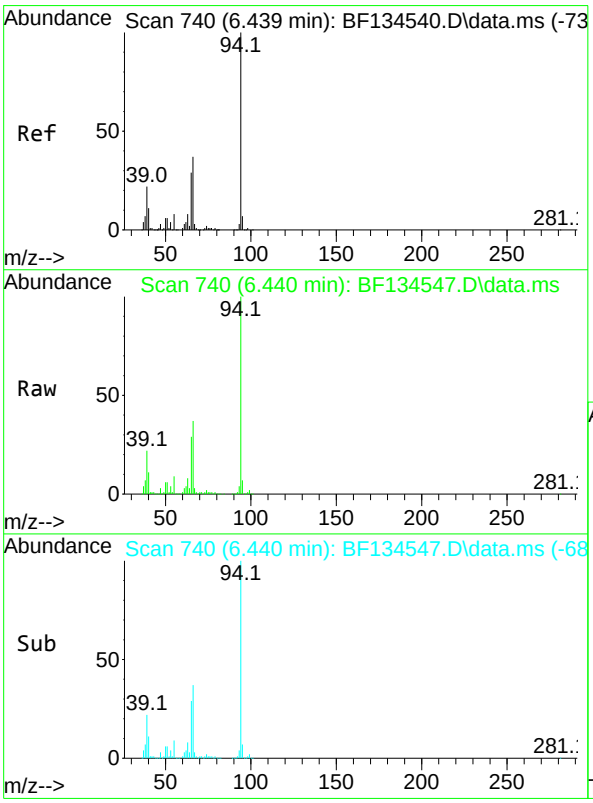
Ion	Ratio	Lower	Upper
77	100		
105	96.4	77.1	117.1
106	95.2	71.4	111.4



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

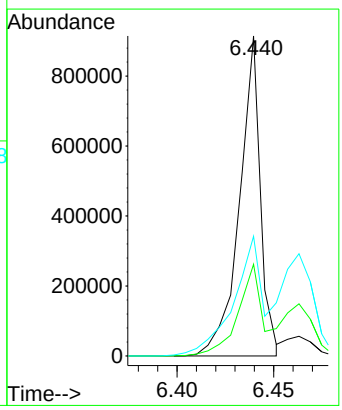
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

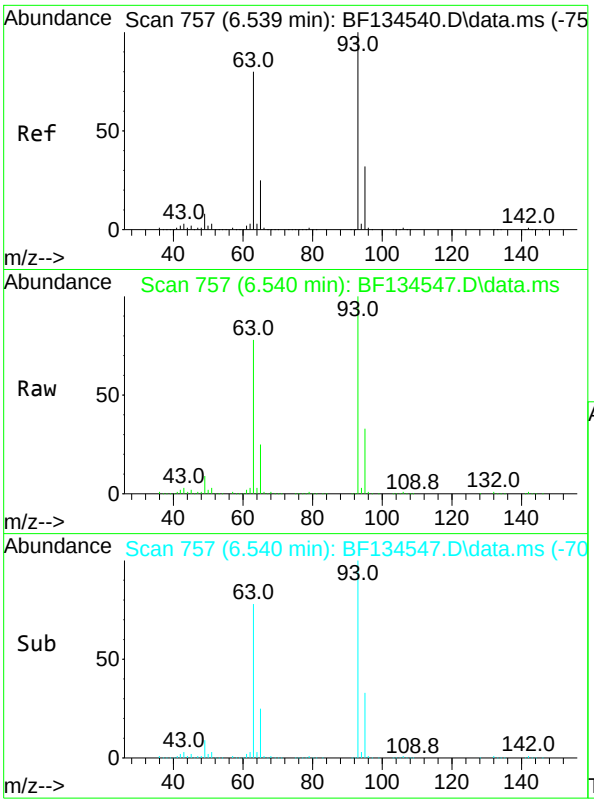


#10
Phenol
Concen: 37.795 ng m
RT: 6.440 min Scan# 740
Delta R.T. 0.000 min
Lab File: BF134547.D
Acq: 01 Aug 2023 14:27

Tgt Ion: 94 Resp: 690580

Ion	Ratio	Lower	Upper
94	100		
65	28.7	17.8	57.8
66	37.4	35.2	75.2

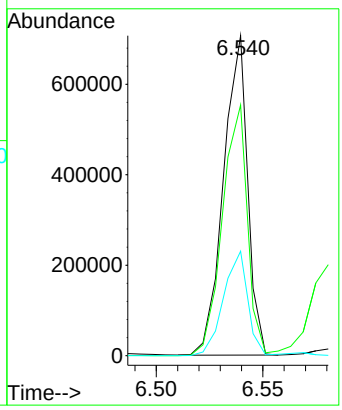




#11
bis(2-Chloroethyl)ether
Concen: 38.335 ng
RT: 6.540 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF134547.D
Acq: 01 Aug 2023 14:27

Tgt Ion: 93 Resp: 55643

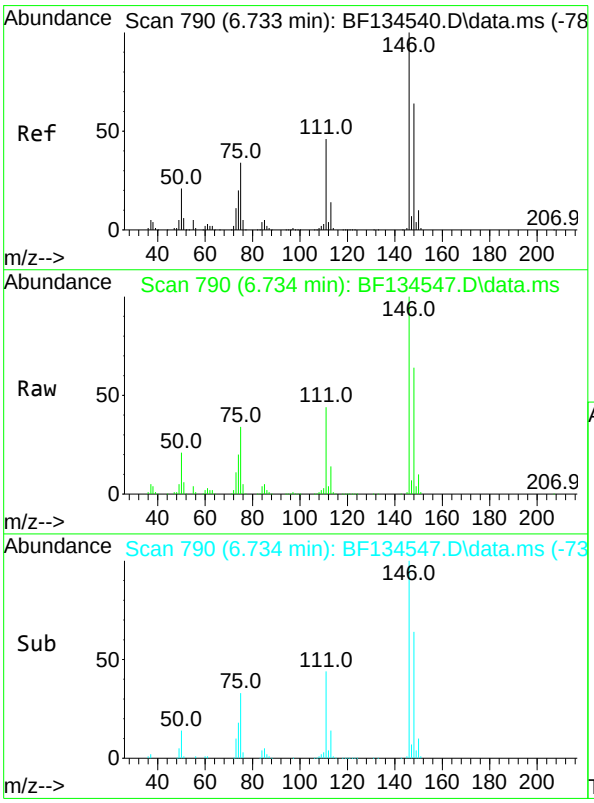
Ion	Ratio	Lower	Upper
93	100		
63	78.3	68.4	108.4
95	32.6	12.4	52.4



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

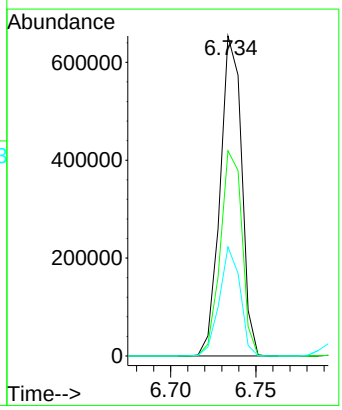
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

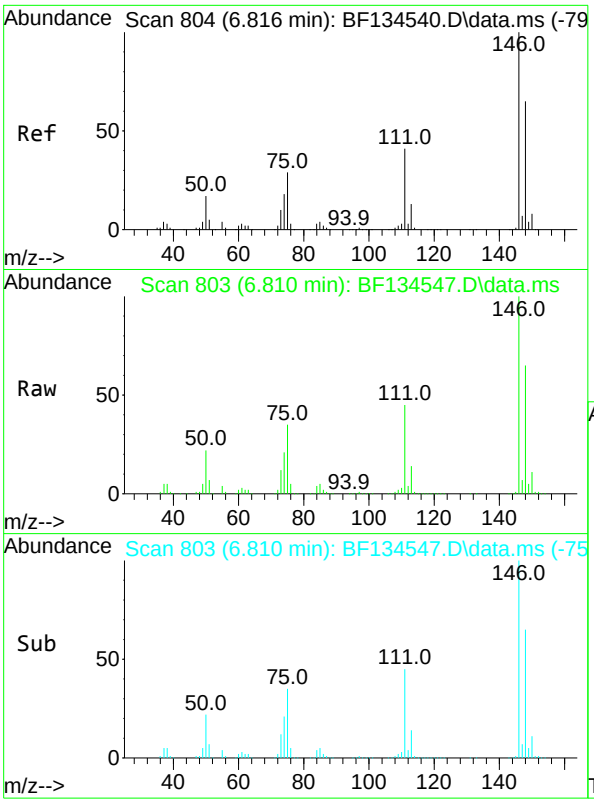


#12
1,3-Dichlorobenzene
Concen: 37.898 ng
RT: 6.734 min Scan# 790
Delta R.T. 0.000 min
Lab File: BF134547.D
Acq: 01 Aug 2023 14:27

Tgt Ion:146 Resp: 573712

Ion	Ratio	Lower	Upper
146	100		
148	64.1	49.7	74.5
75	34.1	29.5	44.3

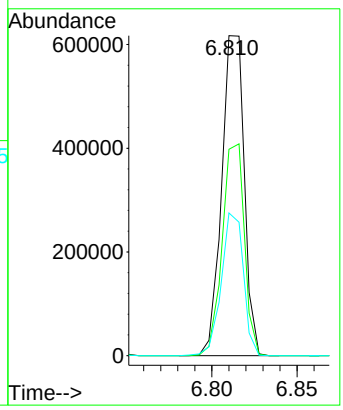




#13
1,4-Dichlorobenzene
Concen: 37.539 ng
RT: 6.810 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF134547.D
Acq: 01 Aug 2023 14:27

Tgt Ion:146 Resp: 56953

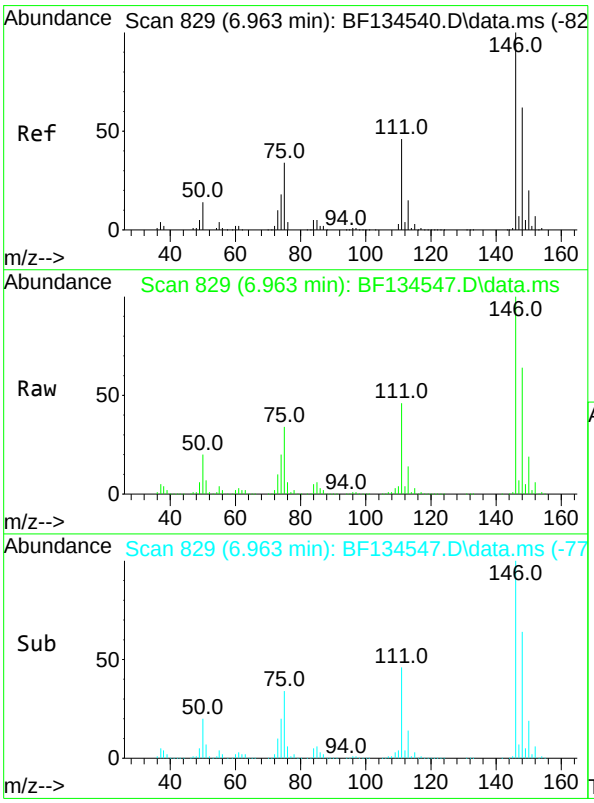
Ion	Ratio	Lower	Upper
146	100		
148	64.5	51.3	76.9
111	44.6	36.6	55.0



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

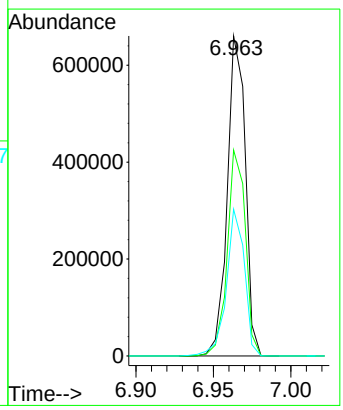
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

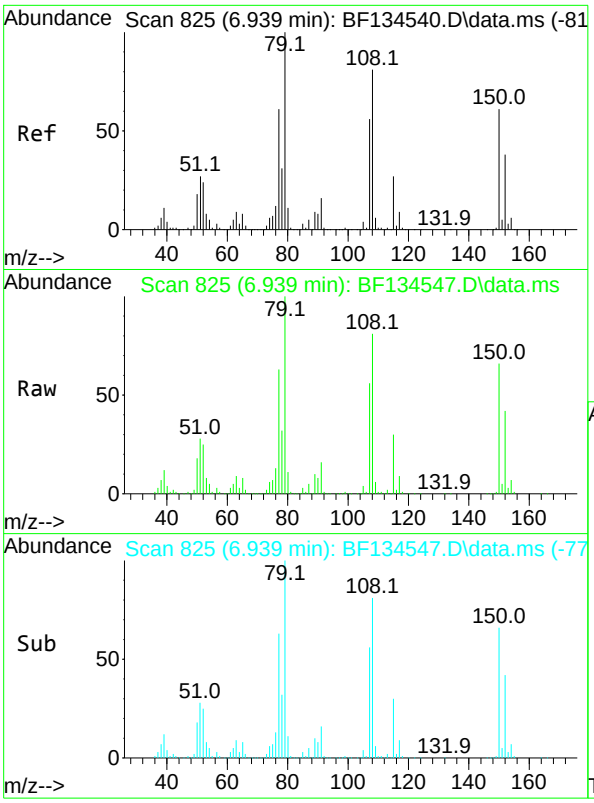


#14
1,2-Dichlorobenzene
Concen: 37.809 ng
RT: 6.963 min Scan# 829
Delta R.T. 0.000 min
Lab File: BF134547.D
Acq: 01 Aug 2023 14:27

Tgt Ion:146 Resp: 534475

Ion	Ratio	Lower	Upper
146	100		
148	64.3	51.2	76.8
111	45.9	39.9	59.9

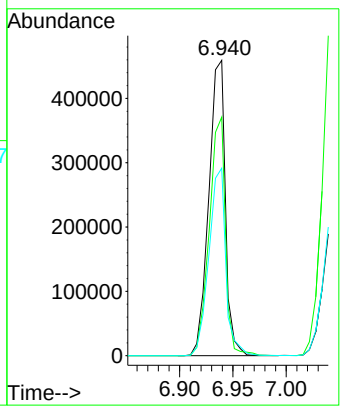




#15
Benzyl Alcohol
Concen: 38.812 ng
RT: 6.939 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF134547.D
Acq: 01 Aug 2023 14:27

Tgt Ion: 79 Resp: 49645

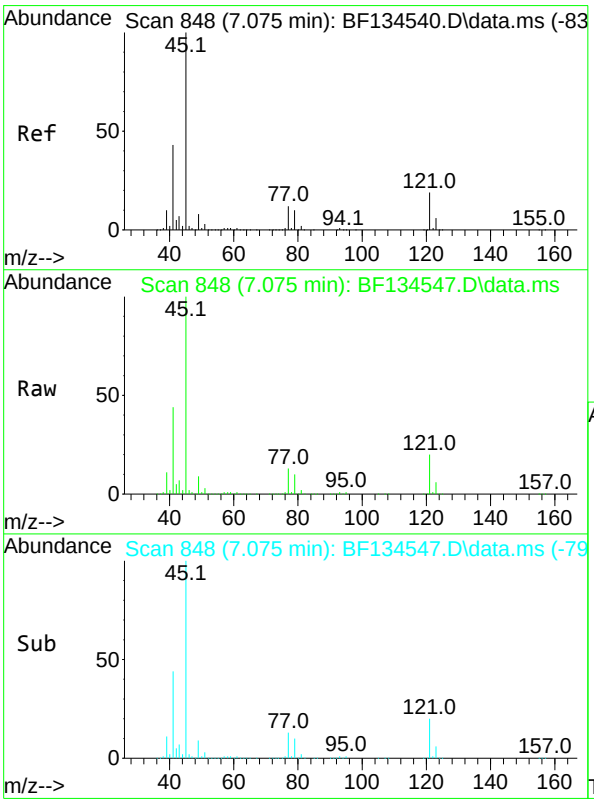
Ion	Ratio	Lower	Upper
79	100		
108	80.8	56.3	84.5
77	63.5	50.6	76.0



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

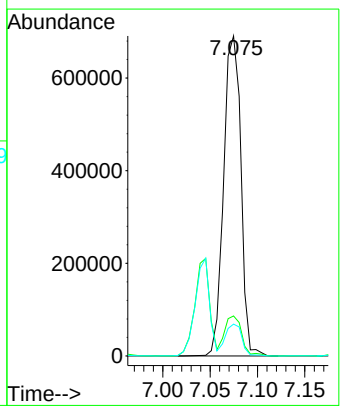
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

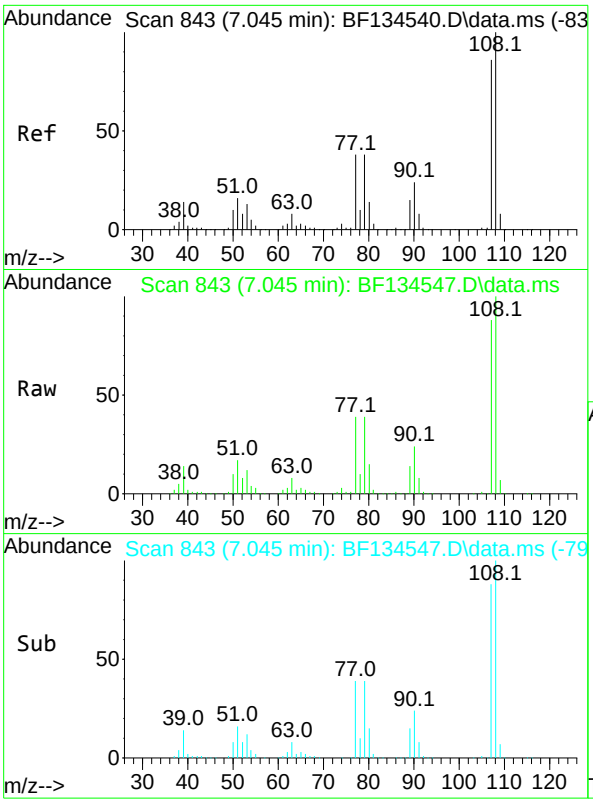


#16
2,2'-oxybis(1-Chloropropane)
Concen: 38.463 ng
RT: 7.075 min Scan# 848
Delta R.T. 0.000 min
Lab File: BF134547.D
Acq: 01 Aug 2023 14:27

Tgt Ion: 45 Resp: 874641

Ion	Ratio	Lower	Upper
45	100		
77	12.5	0.0	37.8
79	10.0	0.0	34.5

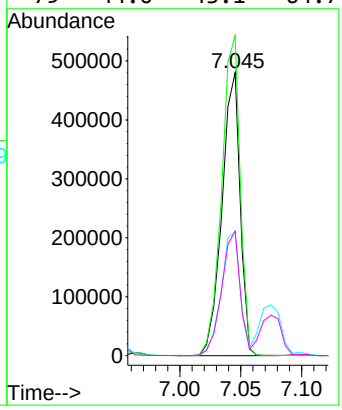




#17
2-Methylphenol
Concen: 38.580 ng
RT: 7.045 min Scan# 84
Delta R.T. 0.000 min
Lab File: BF134547.D
Acq: 01 Aug 2023 14:27

Tgt Ion:107 Resp: 49881

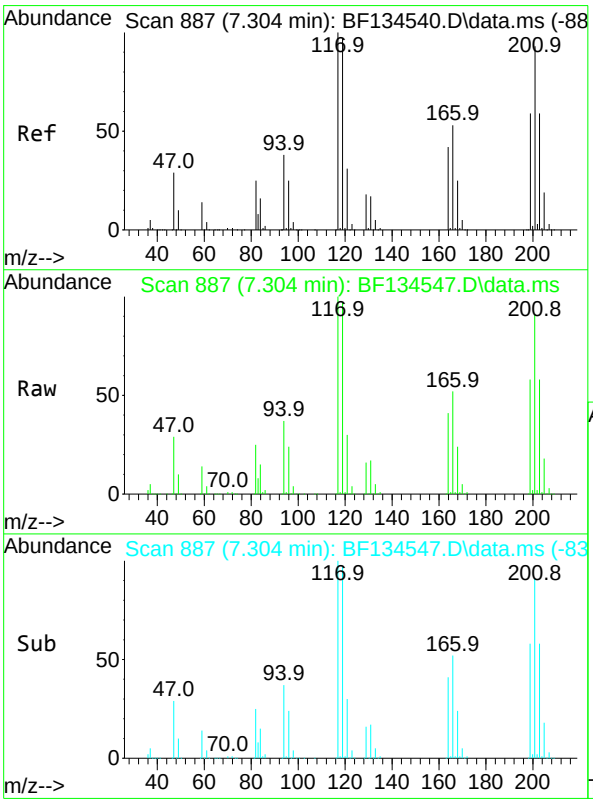
Ion	Ratio	Lower	Upper
107	100		
108	113.0	89.4	134.2
77	43.9	42.4	63.6
79	44.0	43.1	64.7



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

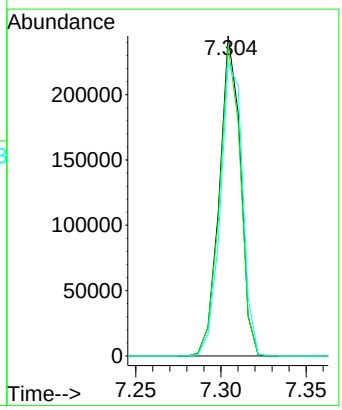
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

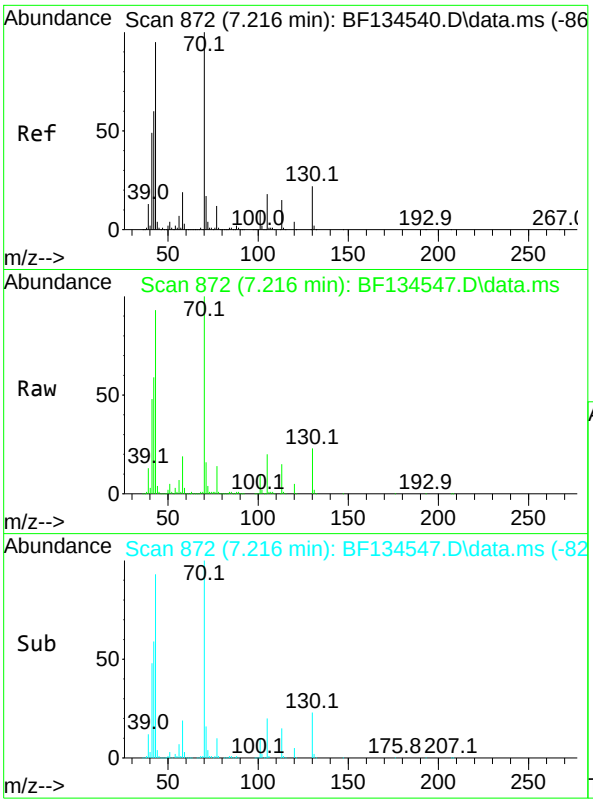


#18
Hexachloroethane
Concen: 39.467 ng
RT: 7.304 min Scan# 887
Delta R.T. 0.000 min
Lab File: BF134547.D
Acq: 01 Aug 2023 14:27

Tgt Ion:117 Resp: 210159

Ion	Ratio	Lower	Upper
117	100		
119	96.8	75.8	113.8
201	91.4	73.6	110.4

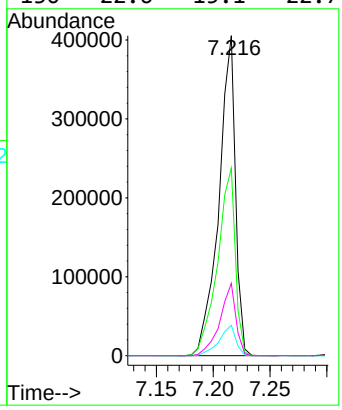




#19
n-Nitroso-di-n-propylamine
Concen: 37.295 ng
RT: 7.216 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF134547.D
Acq: 01 Aug 2023 14:27

Tgt Ion: 70 Resp: 41401

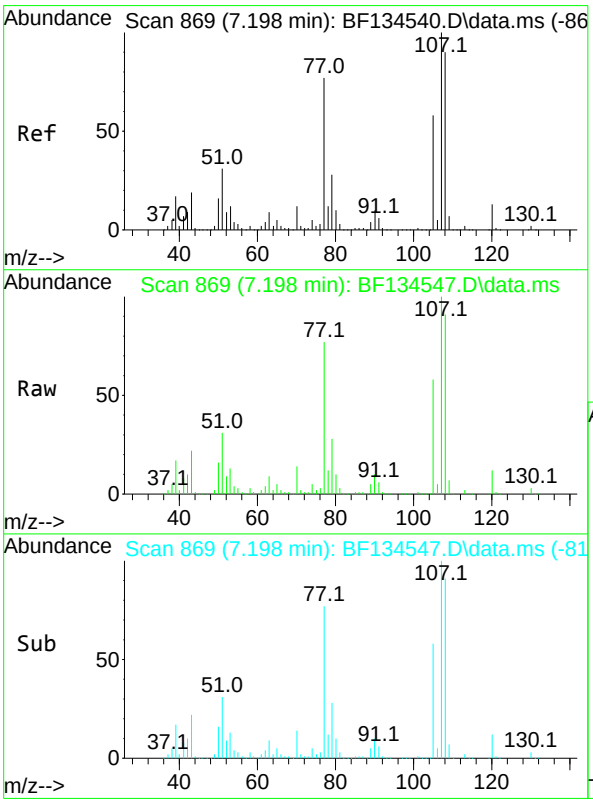
Ion	Ratio	Lower	Upper
70	100		
42	58.6	54.7	82.1
101	9.5	8.2	12.2
130	22.6	15.1	22.7



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

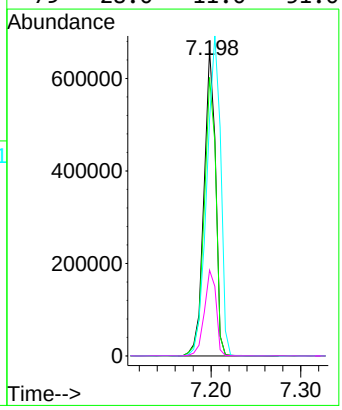
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

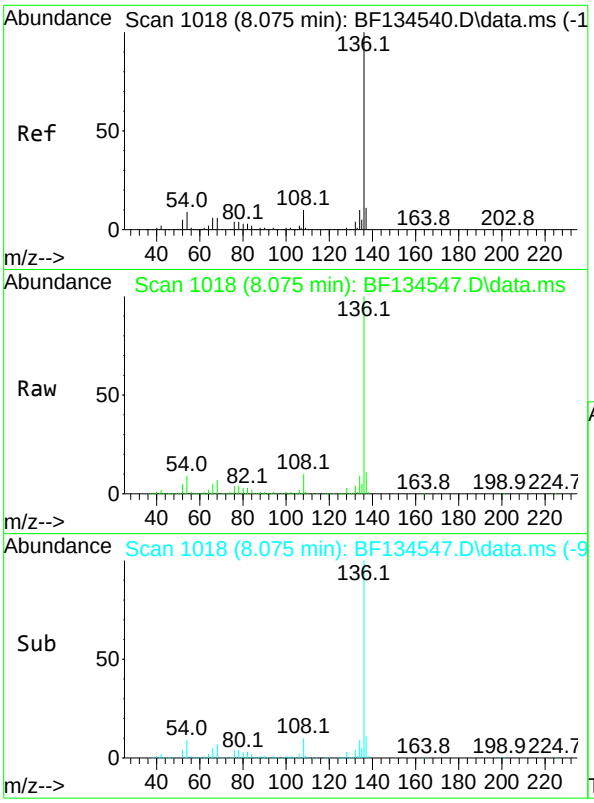


#20
3+4-Methylphenols
Concen: 38.023 ng
RT: 7.198 min Scan# 869
Delta R.T. 0.000 min
Lab File: BF134547.D
Acq: 01 Aug 2023 14:27

Tgt Ion:107 Resp: 592885

Ion	Ratio	Lower	Upper
107	100		
108	90.9	68.1	108.1
77	77.3	122.1	162.1#
79	28.0	11.0	51.0

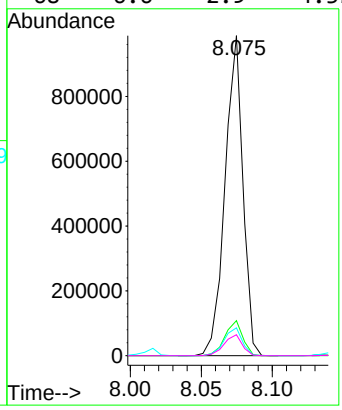




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.075 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134547.D
Acq: 01 Aug 2023 14:27

Tgt Ion:136 Resp: 86386

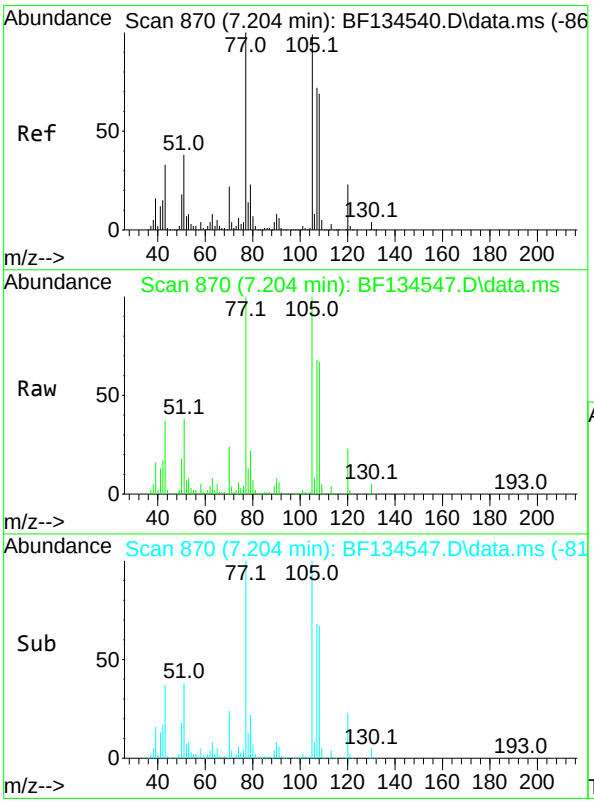
Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.4	12.6
54	8.7	5.2	7.8#
68	6.6	2.9	4.3#



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

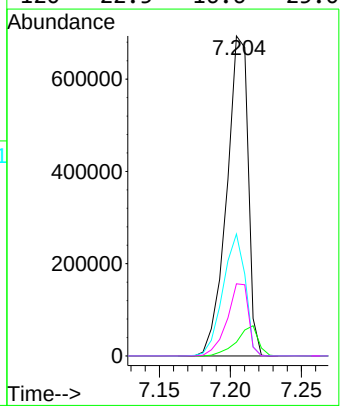
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

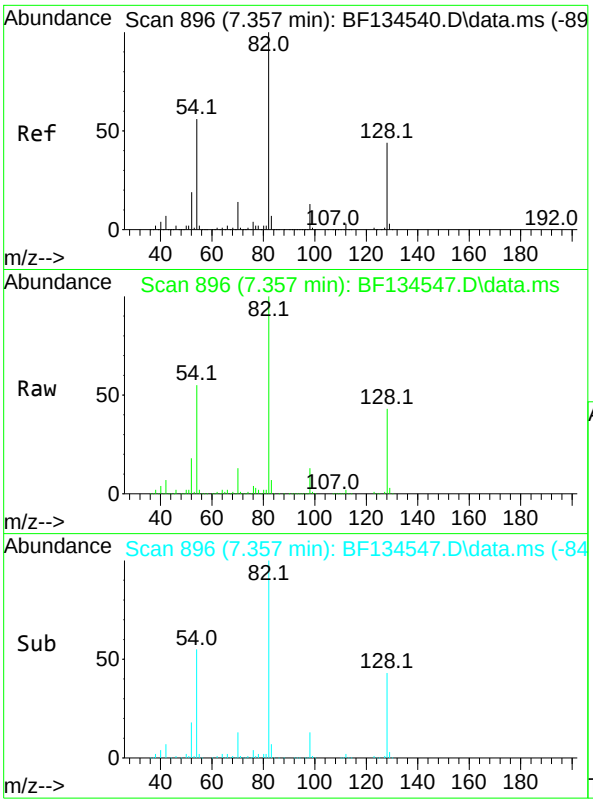


#22
Acetophenone
Concen: 36.484 ng
RT: 7.204 min Scan# 870
Delta R.T. 0.000 min
Lab File: BF134547.D
Acq: 01 Aug 2023 14:27

Tgt Ion:105 Resp: 727606

Ion	Ratio	Lower	Upper
105	100		
71	4.3	7.4	11.0#
51	38.1	36.4	54.6
120	22.5	16.6	25.0





#23
Nitrobenzene-d5
Concen: 83.256 ng
RT: 7.357 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF134547.D
Acq: 01 Aug 2023 14:27

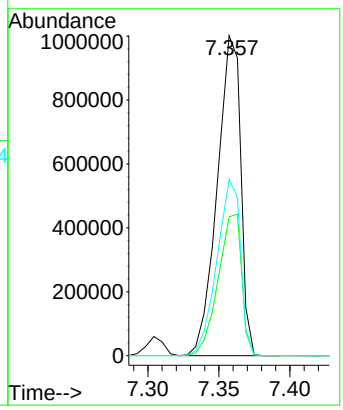
Tgt Ion: 82 Resp: 115089

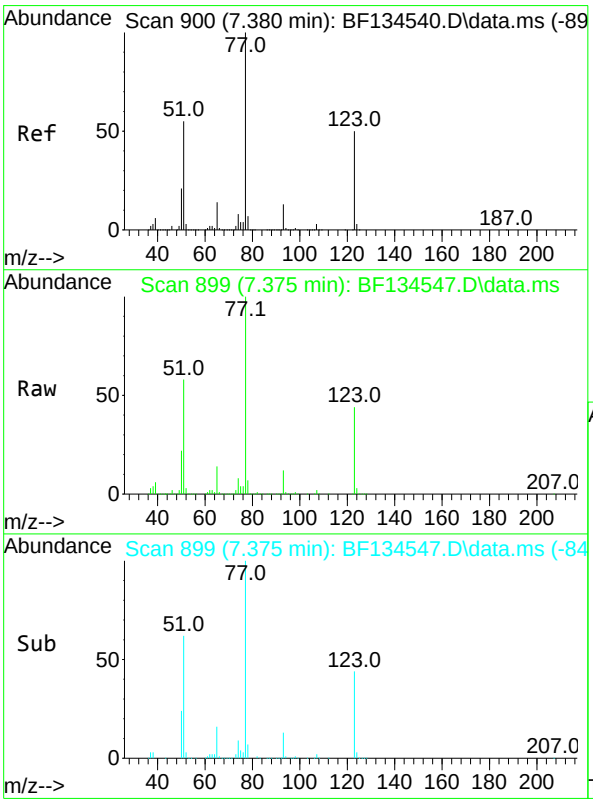
Ion	Ratio	Lower	Upper
82	100		
128	43.4	34.3	51.5
54	55.1	43.8	65.6

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

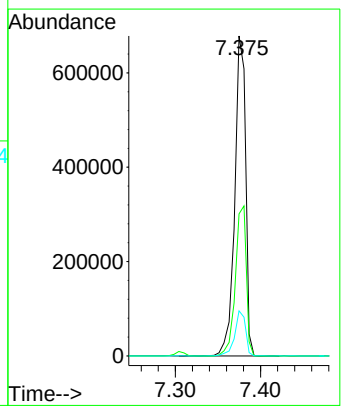


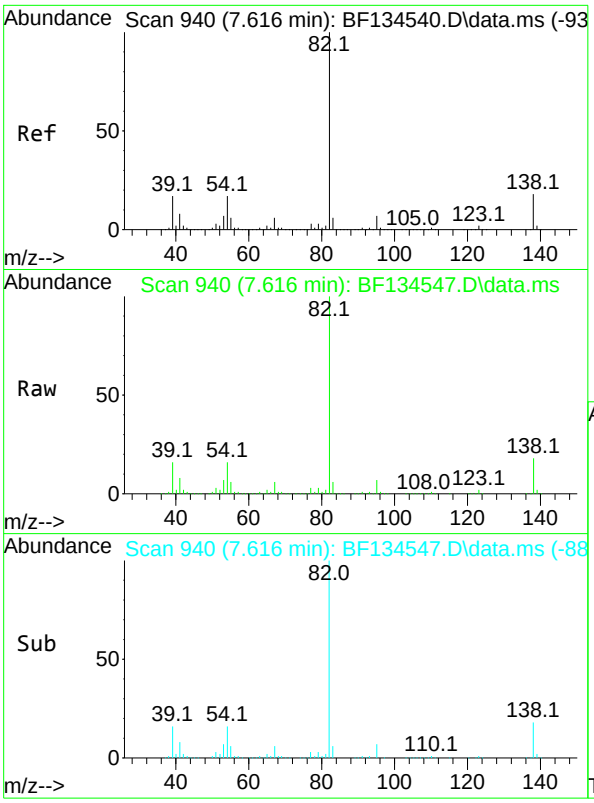


#24
Nitrobenzene
Concen: 40.478 ng
RT: 7.375 min Scan# 899
Delta R.T. -0.006 min
Lab File: BF134547.D
Acq: 01 Aug 2023 14:27

Tgt Ion: 77 Resp: 604513

Ion	Ratio	Lower	Upper
77	100		
123	44.4	35.5	53.3
65	14.1	11.9	17.9

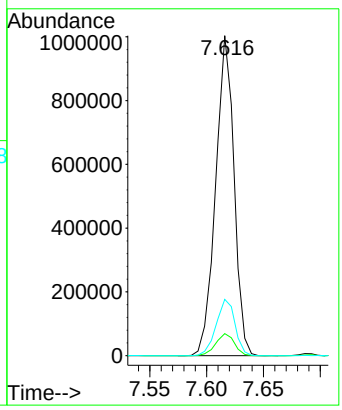




#25
Isophorone
Concen: 37.507 ng
RT: 7.616 min Scan# 94
Delta R.T. 0.000 min
Lab File: BF134547.D
Acq: 01 Aug 2023 14:27

Tgt Ion: 82 Resp: 113086

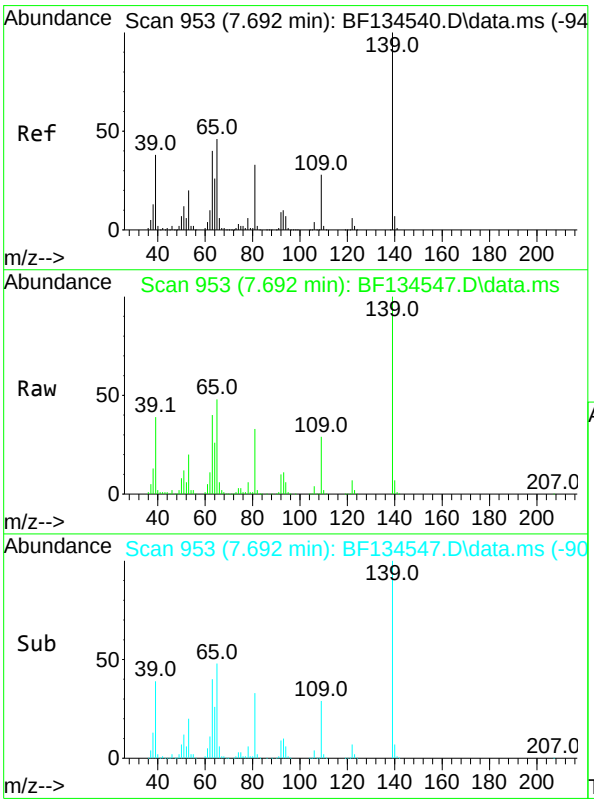
Ion	Ratio	Lower	Upper
82	100		
95	6.9	6.0	9.0
138	17.6	14.6	22.0



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

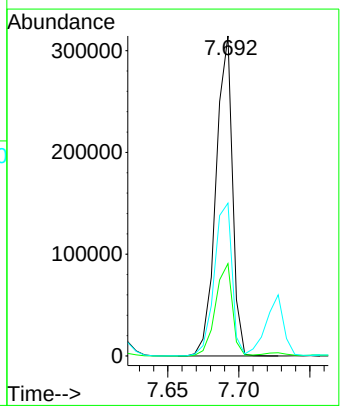
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

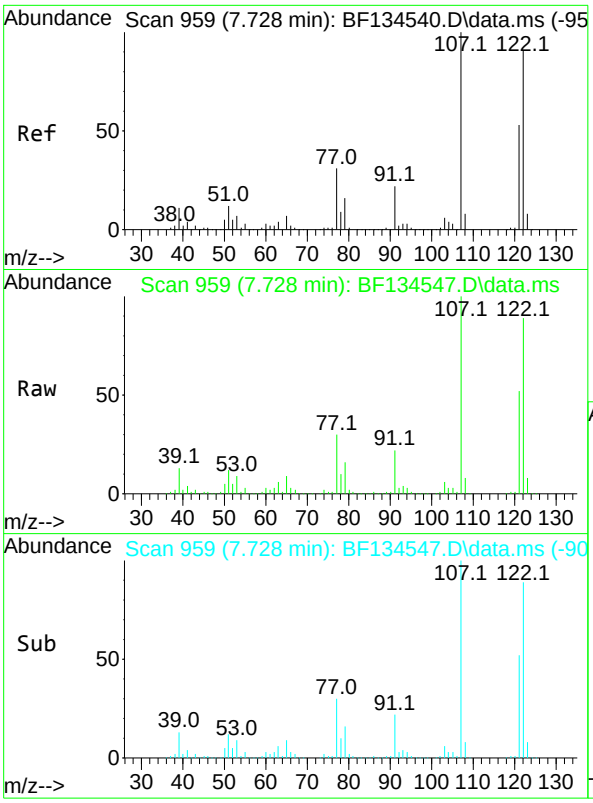


#26
2-Nitrophenol
Concen: 40.707 ng
RT: 7.692 min Scan# 953
Delta R.T. 0.000 min
Lab File: BF134547.D
Acq: 01 Aug 2023 14:27

Tgt Ion:139 Resp: 253546

Ion	Ratio	Lower	Upper
139	100		
109	28.8	29.8	44.6#
65	47.7	45.4	68.2

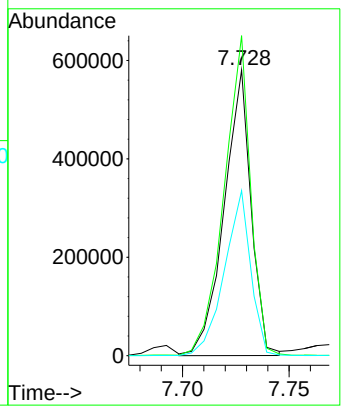




#27
2,4-Dimethylphenol
Concen: 37.874 ng
RT: 7.728 min Scan# 9
Delta R.T. -0.000 min
Lab File: BF134547.D
Acq: 01 Aug 2023 14:27

Tgt Ion:122 Resp: 50952

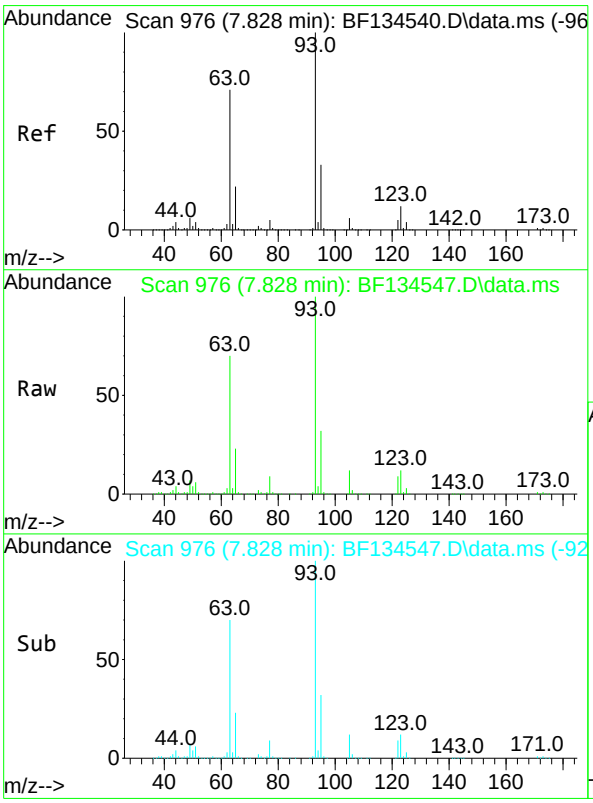
Ion	Ratio	Lower	Upper
122	100		
107	112.0	106.7	160.1
121	57.7	49.0	73.6



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

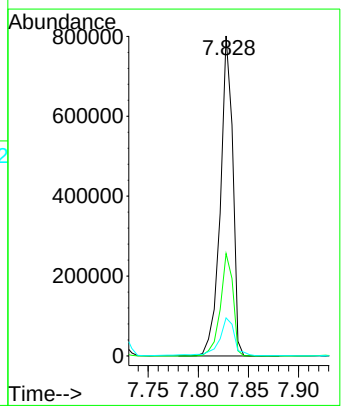
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

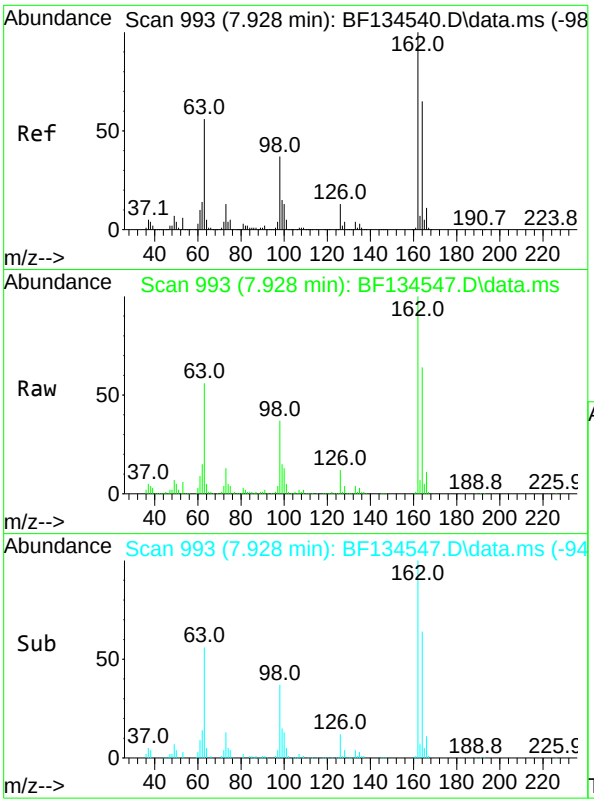


#28
bis(2-Chloroethoxy)methane
Concen: 38.011 ng
RT: 7.828 min Scan# 976
Delta R.T. 0.000 min
Lab File: BF134547.D
Acq: 01 Aug 2023 14:27

Tgt Ion: 93 Resp: 685570

Ion	Ratio	Lower	Upper
93	100		
95	32.0	26.5	39.7
123	11.9	9.6	14.4

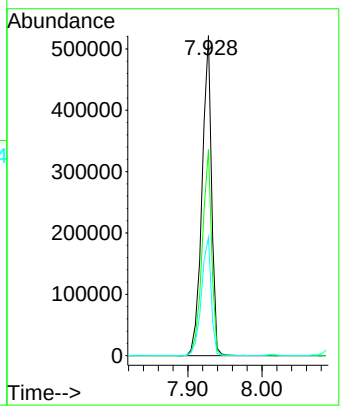




#29
2,4-Dichlorophenol
Concen: 38.217 ng
RT: 7.928 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF134547.D
Acq: 01 Aug 2023 14:27

Tgt Ion:162 Resp: 46662

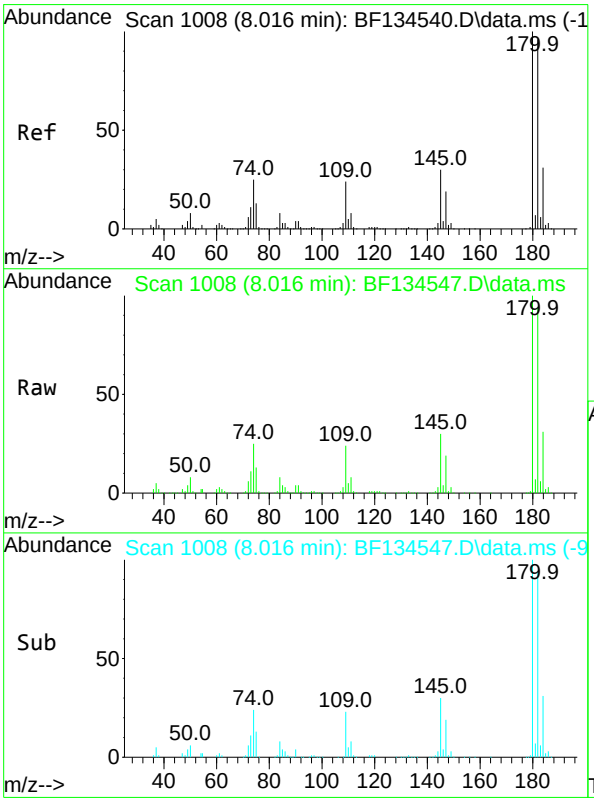
Ion	Ratio	Lower	Upper
162	100		
164	64.4	42.2	82.2
98	36.9	15.5	55.5



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

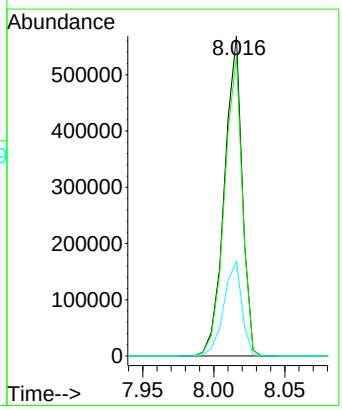
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

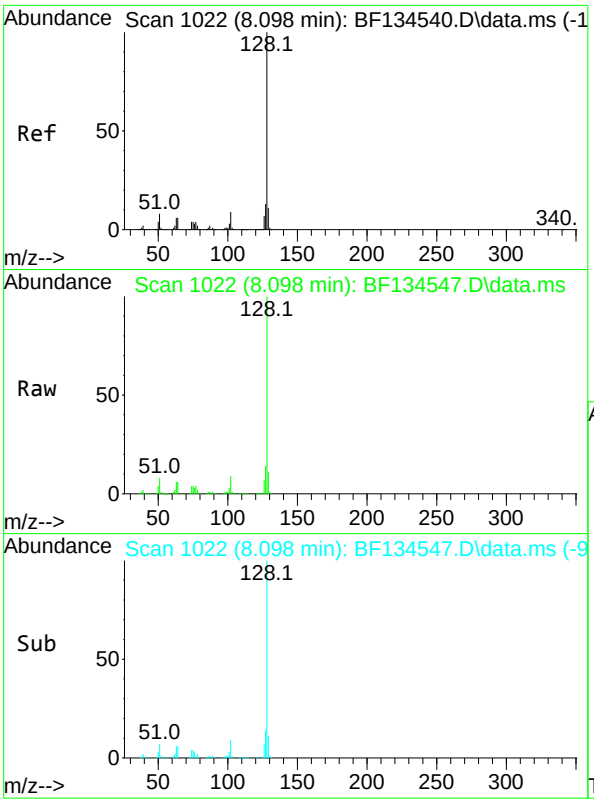


#30
1,2,4-Trichlorobenzene
Concen: 37.981 ng
RT: 8.016 min Scan# 1008
Delta R.T. 0.000 min
Lab File: BF134547.D
Acq: 01 Aug 2023 14:27

Tgt Ion:180 Resp: 494525

Ion	Ratio	Lower	Upper
180	100		
182	93.7	75.0	112.6
145	29.6	25.5	38.3

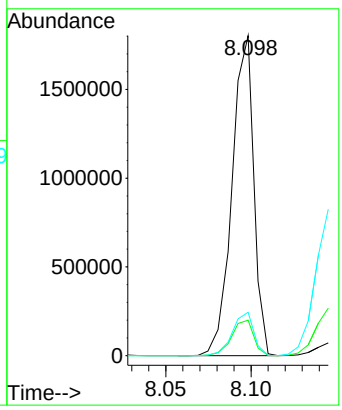




#31
Naphthalene
Concen: 36.933 ng
RT: 8.098 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134547.D
Acq: 01 Aug 2023 14:27

Tgt Ion:128 Resp: 160349

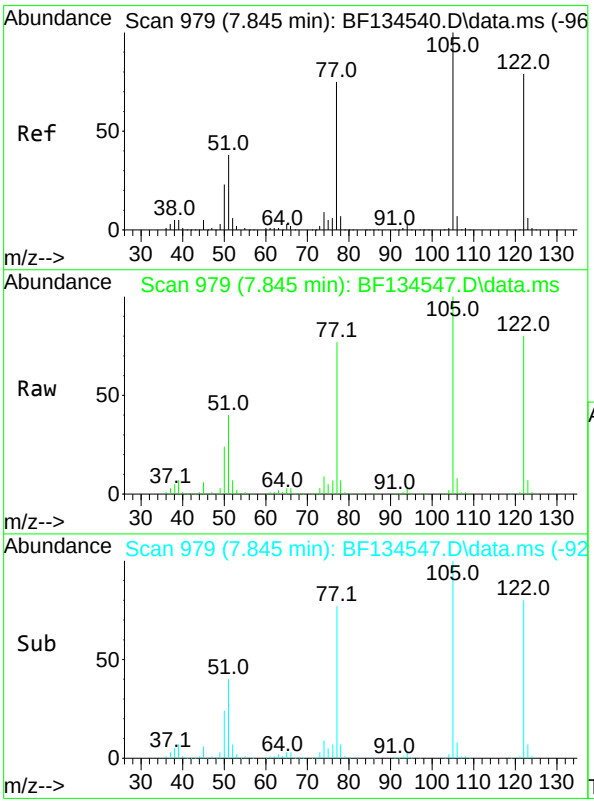
Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.4	12.6
127	13.5	10.7	16.1



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

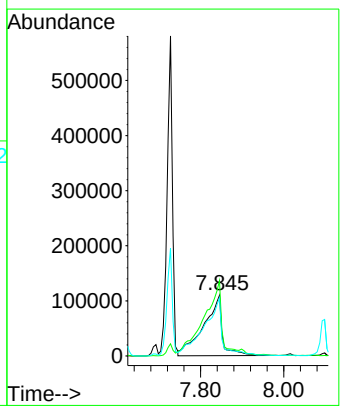
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

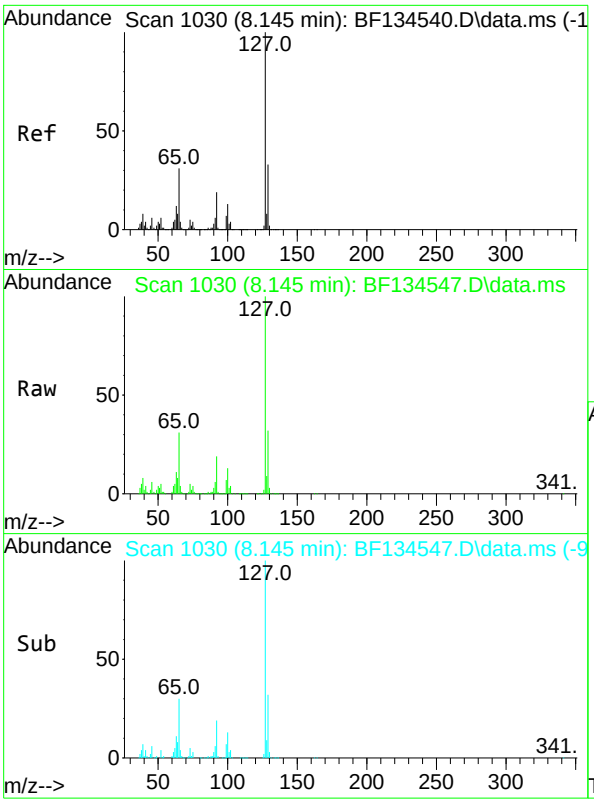


#32
Benzoic acid
Concen: 40.774 ng
RT: 7.845 min Scan# 979
Delta R.T. 0.000 min
Lab File: BF134547.D
Acq: 01 Aug 2023 14:27

Tgt Ion:122 Resp: 345390

Ion	Ratio	Lower	Upper
122	100		
105	124.2	87.5	127.5
77	95.8	71.4	111.4

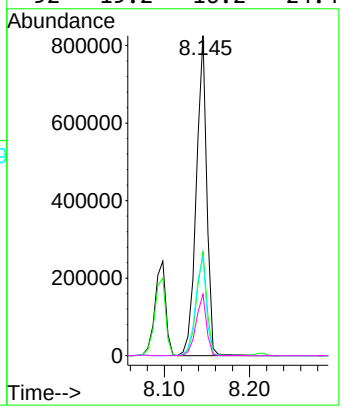




#33
4-Chloroaniline
Concen: 36.487 ng
RT: 8.145 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134547.D
Acq: 01 Aug 2023 14:27

Tgt Ion:127 Resp: 70585

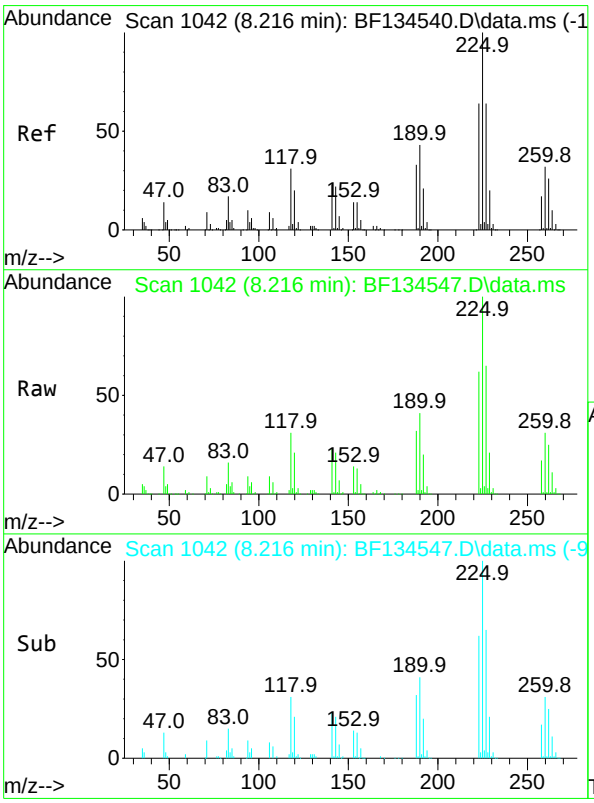
Ion	Ratio	Lower	Upper
127	100		
129	32.4	25.6	38.4
65	30.8	25.4	38.0
92	19.2	16.2	24.4



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

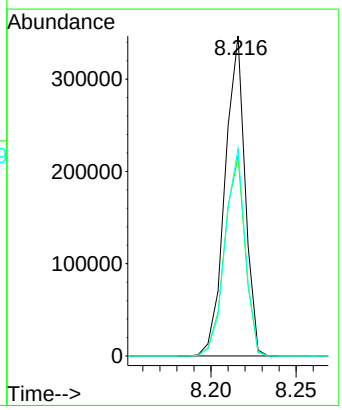
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

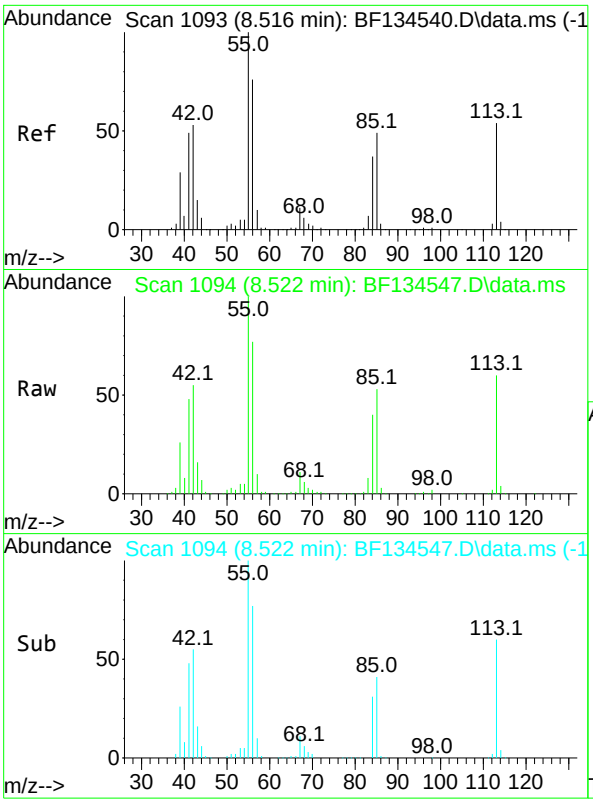


#34
Hexachlorobutadiene
Concen: 37.905 ng
RT: 8.216 min Scan# 1042
Delta R.T. 0.000 min
Lab File: BF134547.D
Acq: 01 Aug 2023 14:27

Tgt Ion:225 Resp: 284678

Ion	Ratio	Lower	Upper
225	100		
223	62.3	48.2	72.4
227	64.8	48.5	72.7

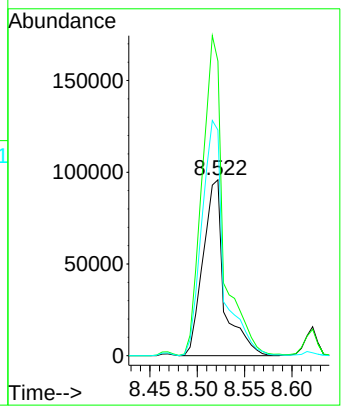




#35
Caprolactam
Concen: 38.158 ng
RT: 8.522 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF134547.D
Acq: 01 Aug 2023 14:27

Tgt Ion:113 Resp: 15031

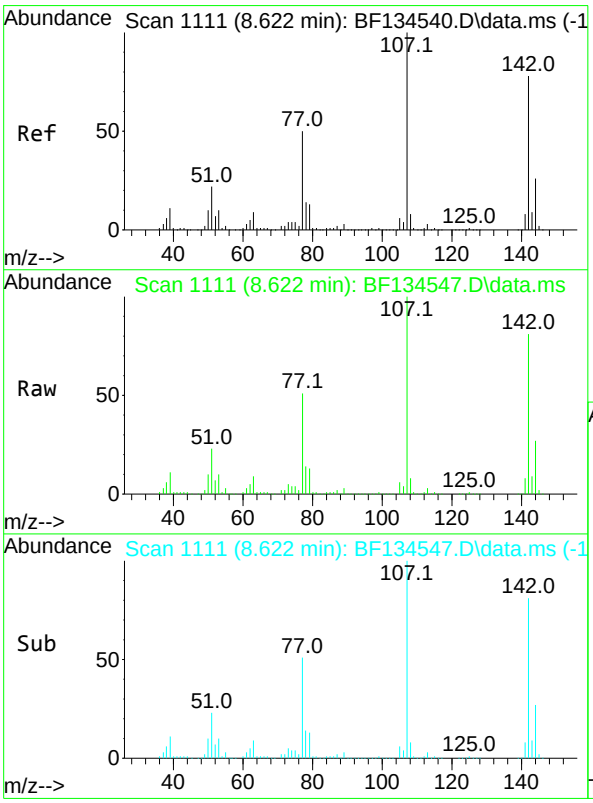
Ion	Ratio	Lower	Upper
113	100		
55	167.5	161.5	201.5
56	128.3	117.8	157.8



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

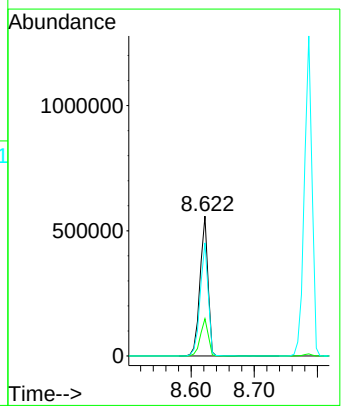
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

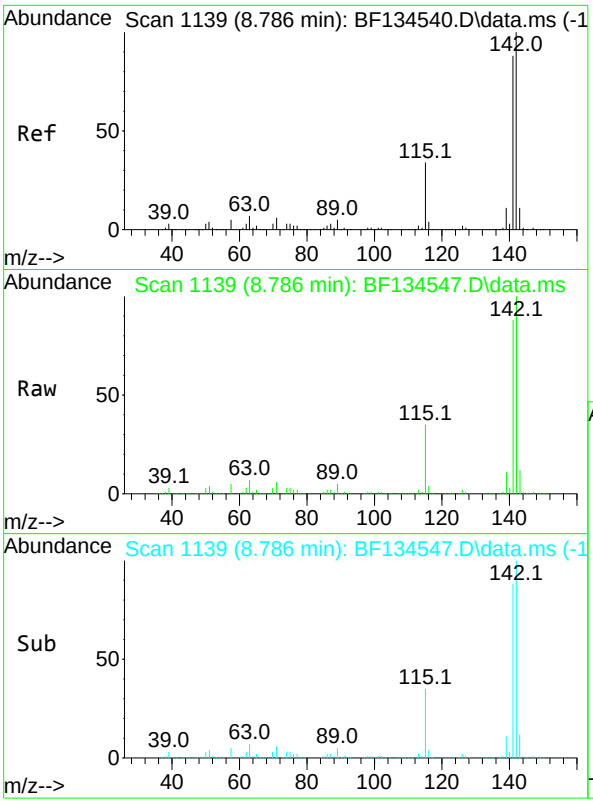


#36
4-Chloro-3-methylphenol
Concen: 37.988 ng
RT: 8.622 min Scan# 1111
Delta R.T. 0.000 min
Lab File: BF134547.D
Acq: 01 Aug 2023 14:27

Tgt Ion:107 Resp: 491219

Ion	Ratio	Lower	Upper
107	100		
144	26.7	19.6	29.4
142	80.9	57.7	86.5

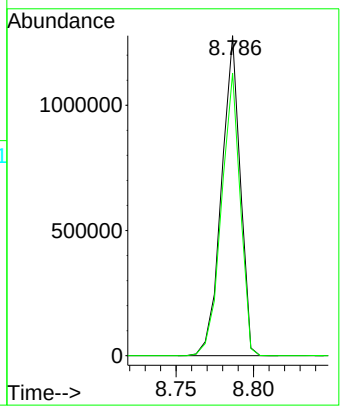




#37
2-Methylnaphthalene
Concen: 37.265 ng
RT: 8.786 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF134547.D
Acq: 01 Aug 2023 14:27

Tgt Ion:142 Resp: 107241

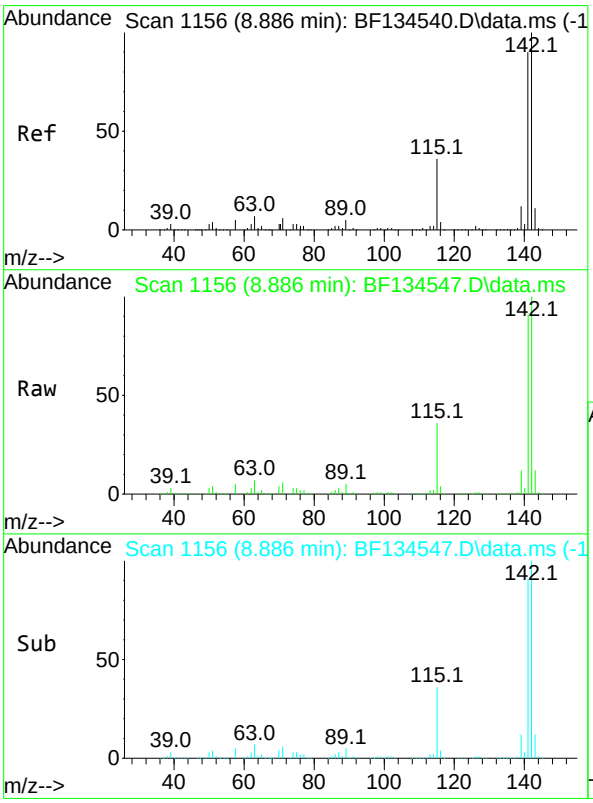
Ion	Ratio	Lower	Upper
142	100		
141	88.3	70.8	106.2



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

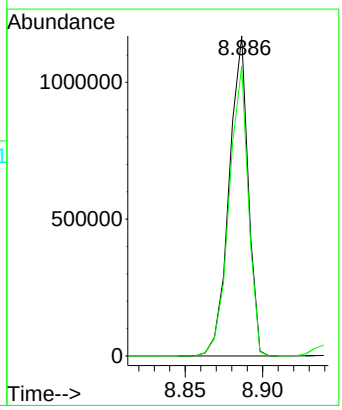
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

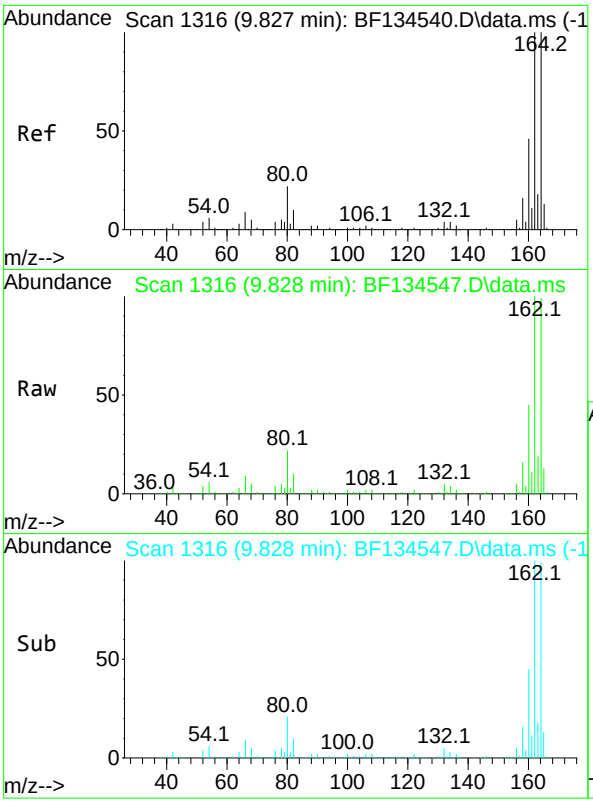


#38
1-Methylnaphthalene
Concen: 37.431 ng
RT: 8.886 min Scan# 1156
Delta R.T. 0.000 min
Lab File: BF134547.D
Acq: 01 Aug 2023 14:27

Tgt Ion:142 Resp: 1001669

Ion	Ratio	Lower	Upper
142	100		
141	90.5	71.4	107.2

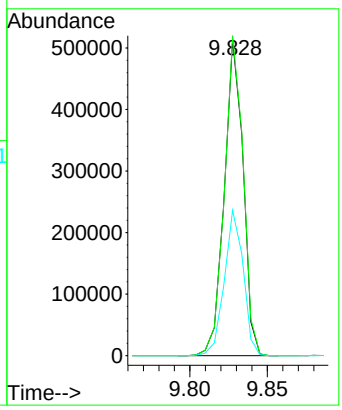




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.828 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134547.D
Acq: 01 Aug 2023 14:27

Tgt Ion:164 Resp: 43343

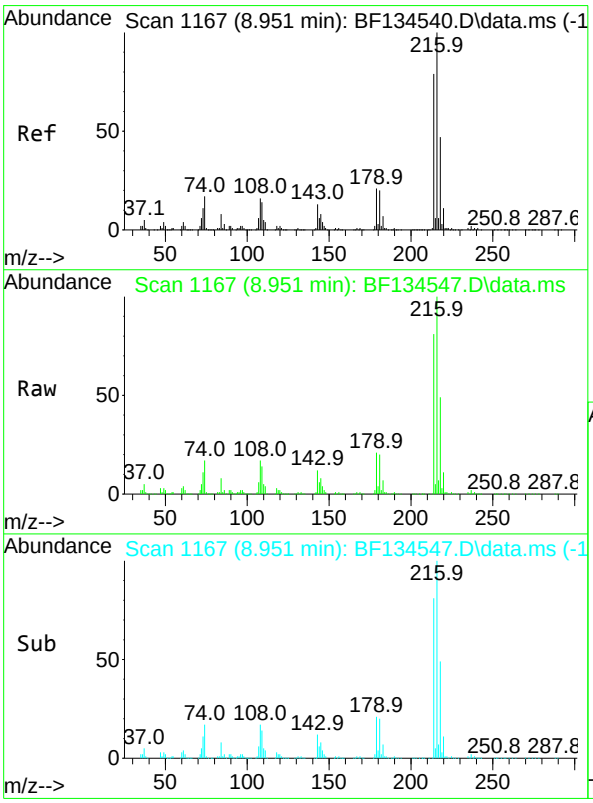
Ion	Ratio	Lower	Upper
164	100		
162	101.3	82.6	123.8
160	46.0	37.2	55.8



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

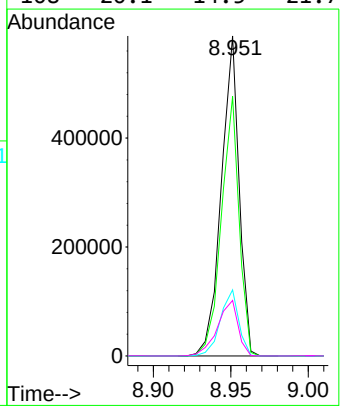
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

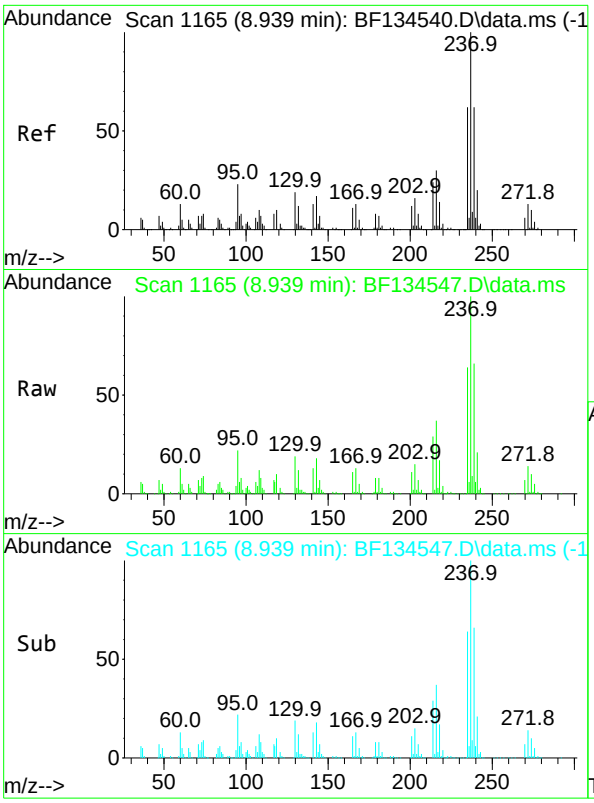


#40
1,2,4,5-Tetrachlorobenzene
Concen: 37.332 ng
RT: 8.951 min Scan# 1167
Delta R.T. 0.000 min
Lab File: BF134547.D
Acq: 01 Aug 2023 14:27

Tgt Ion:216 Resp: 470529

Ion	Ratio	Lower	Upper
216	100		
214	80.3	62.3	93.5
179	21.2	17.4	26.0
108	20.1	14.5	21.7

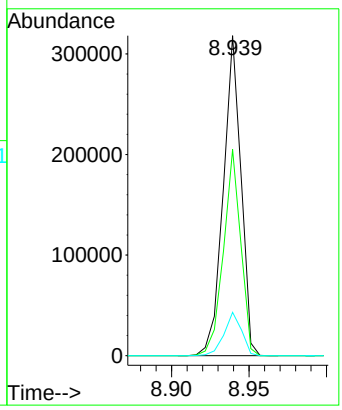




#41
Hexachlorocyclopentadiene
Concen: 41.199 ng
RT: 8.939 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF134547.D
Acq: 01 Aug 2023 14:27

Tgt Ion:237 Resp: 25251

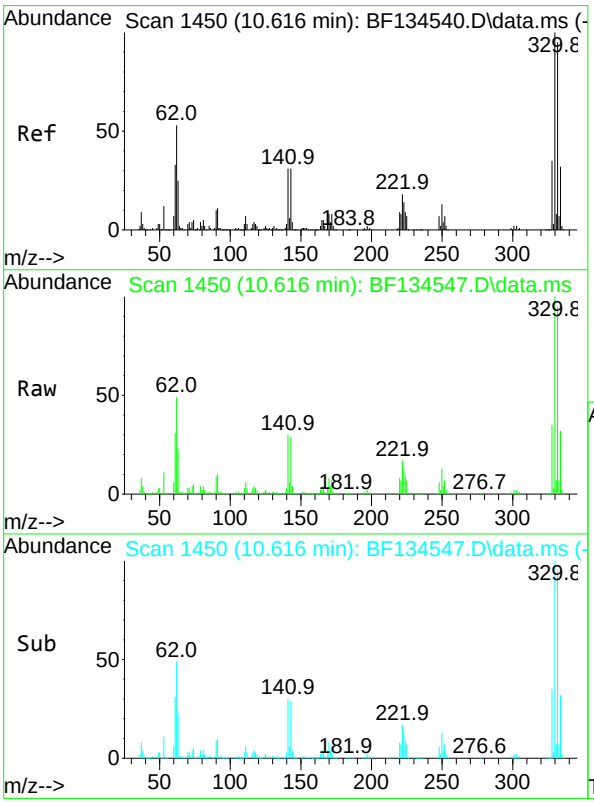
Ion	Ratio	Lower	Upper
237	100		
235	64.4	37.0	77.0
272	13.5	0.0	32.7



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

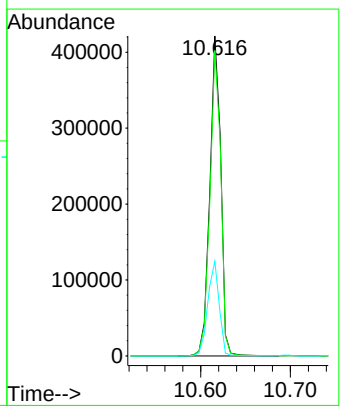
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

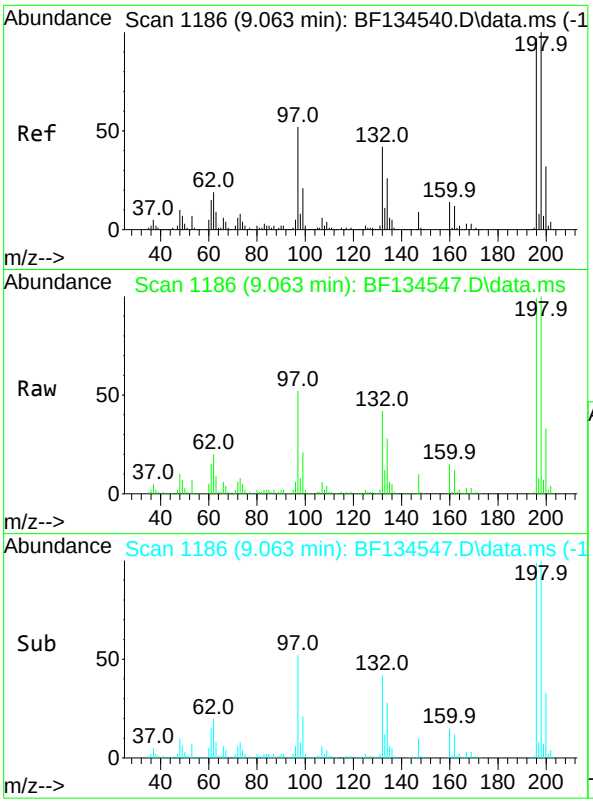


#42
2,4,6-Tribromophenol
Concen: 80.907 ng
RT: 10.616 min Scan# 1450
Delta R.T. 0.000 min
Lab File: BF134547.D
Acq: 01 Aug 2023 14:27

Tgt Ion:330 Resp: 357482

Ion	Ratio	Lower	Upper
330	100		
332	95.1	78.8	118.2
141	31.1	25.4	38.2

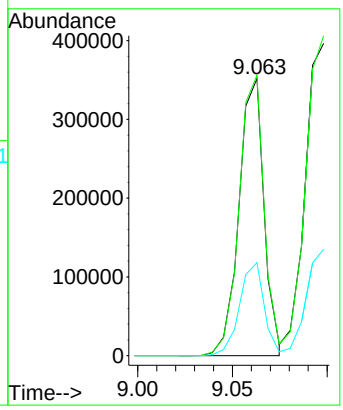




#43
2,4,6-Trichlorophenol
Concen: 39.177 ng
RT: 9.063 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF134547.D
Acq: 01 Aug 2023 14:27

Tgt Ion:196 Resp: 32315

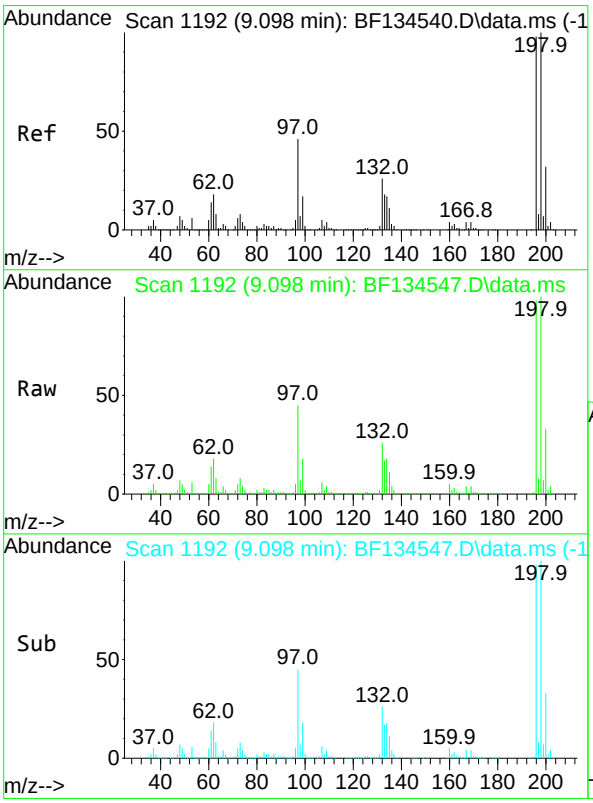
Ion	Ratio	Lower	Upper
196	100		
198	101.1	77.4	116.2
200	33.6	25.4	38.2



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

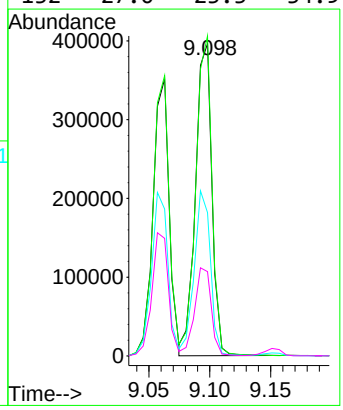
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

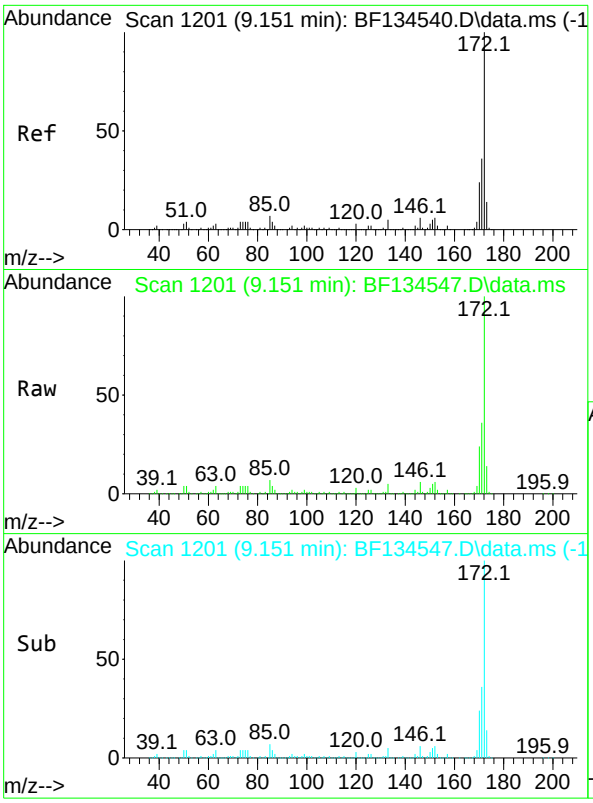


#44
2,4,5-Trichlorophenol
Concen: 39.535 ng
RT: 9.098 min Scan# 1192
Delta R.T. 0.000 min
Lab File: BF134547.D
Acq: 01 Aug 2023 14:27

Tgt Ion:196 Resp: 372716

Ion	Ratio	Lower	Upper
196	100		
198	102.4	73.0	109.4
97	45.9	40.8	61.2
132	27.0	23.3	34.9

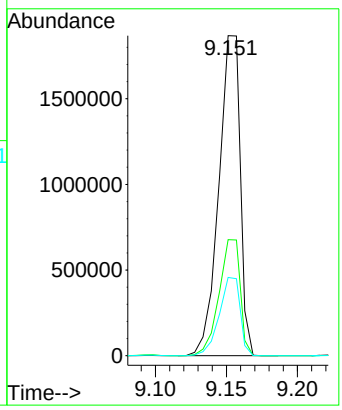




#45
2-Fluorobiphenyl
Concen: 75.275 ng
RT: 9.151 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134547.D
Acq: 01 Aug 2023 14:27

Tgt Ion:172 Resp: 196227

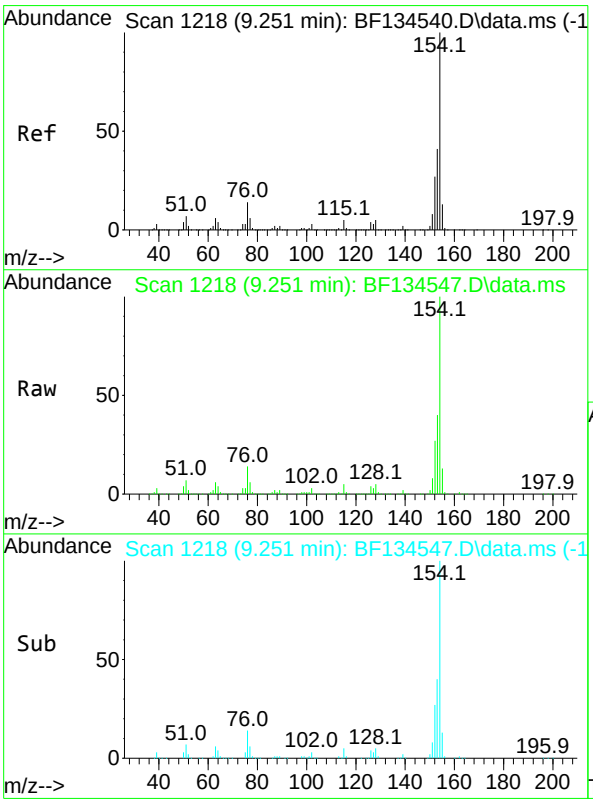
Ion	Ratio	Lower	Upper
172	100		
171	36.3	28.8	43.2
170	24.5	18.7	28.1



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

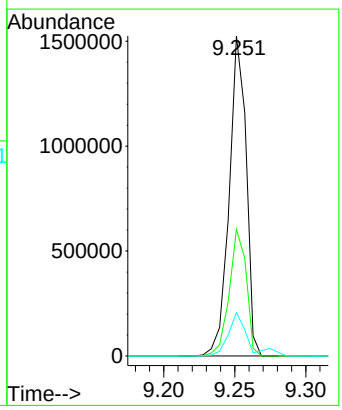
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

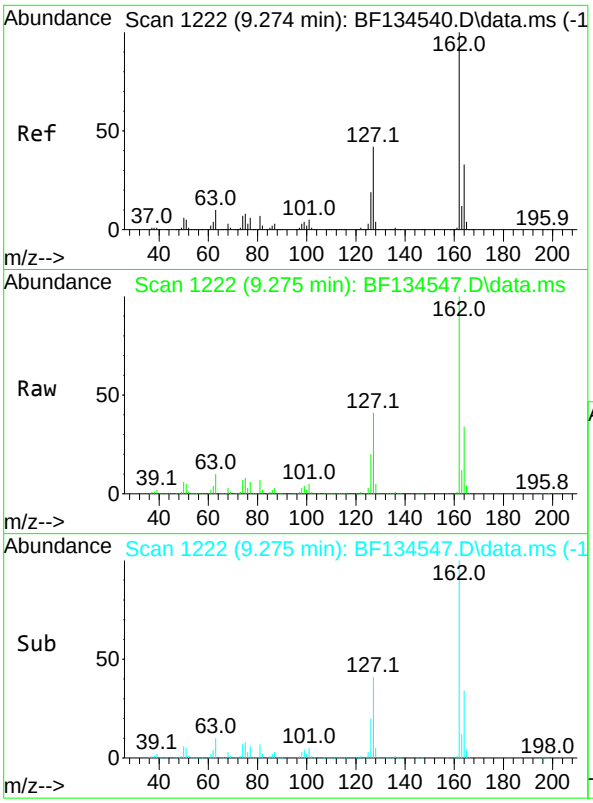


#46
1,1'-Biphenyl
Concen: 37.700 ng
RT: 9.251 min Scan# 1218
Delta R.T. 0.000 min
Lab File: BF134547.D
Acq: 01 Aug 2023 14:27

Tgt Ion:154 Resp: 1270680

Ion	Ratio	Lower	Upper
154	100		
153	39.6	20.8	60.8
76	13.6	0.0	30.2

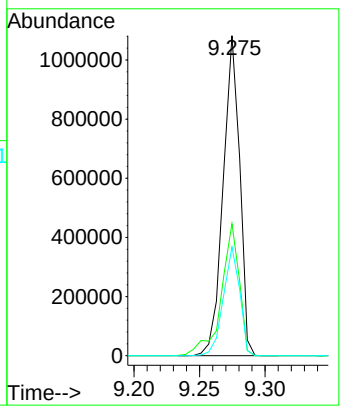




#47
2-Chloronaphthalene
Concen: 37.518 ng
RT: 9.275 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134547.D
Acq: 01 Aug 2023 14:27

Tgt Ion:162 Resp: 94751

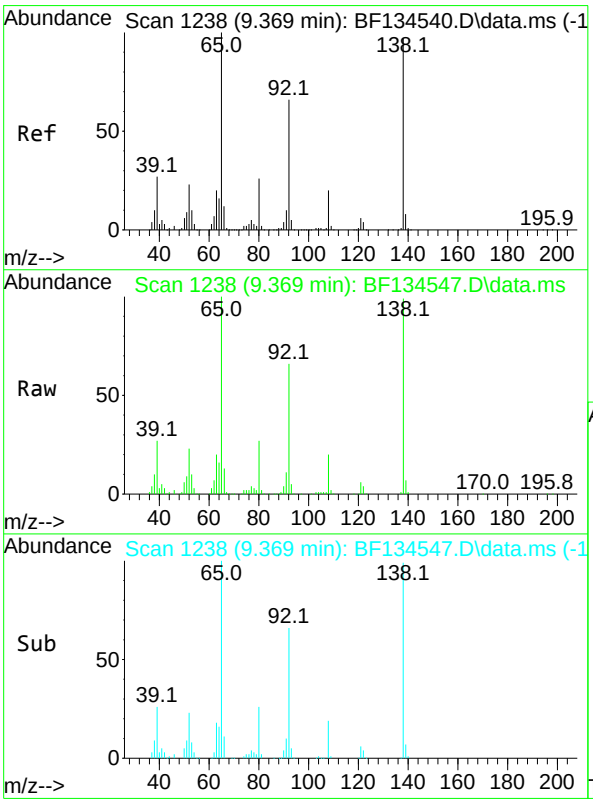
Ion	Ratio	Lower	Upper
162	100		
127	41.2	34.0	51.0
164	33.9	25.7	38.5



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

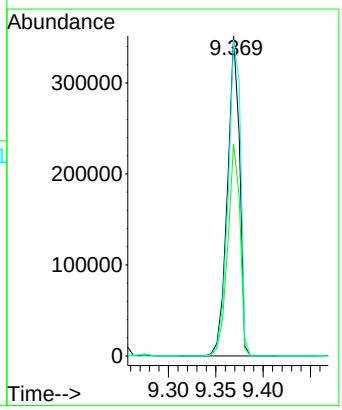
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

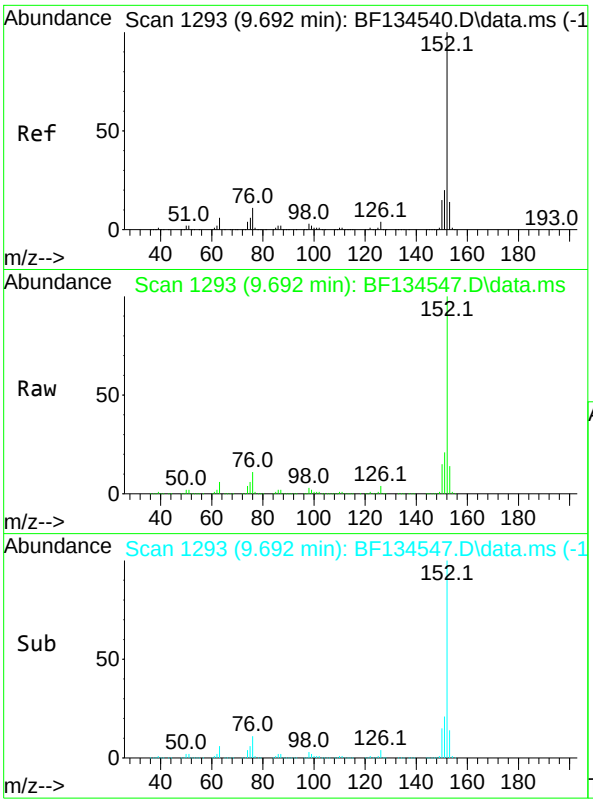


#48
2-Nitroaniline
Concen: 40.378 ng
RT: 9.369 min Scan# 1238
Delta R.T. -0.000 min
Lab File: BF134547.D
Acq: 01 Aug 2023 14:27

Tgt Ion: 65 Resp: 313679

Ion	Ratio	Lower	Upper
65	100		
92	66.2	50.7	76.1
138	98.6	78.2	117.4

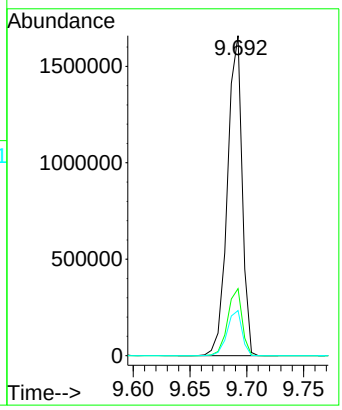




#49
Acenaphthylene
Concen: 37.524 ng
RT: 9.692 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134547.D
Acq: 01 Aug 2023 14:27

Tgt Ion:152 Resp: 148962

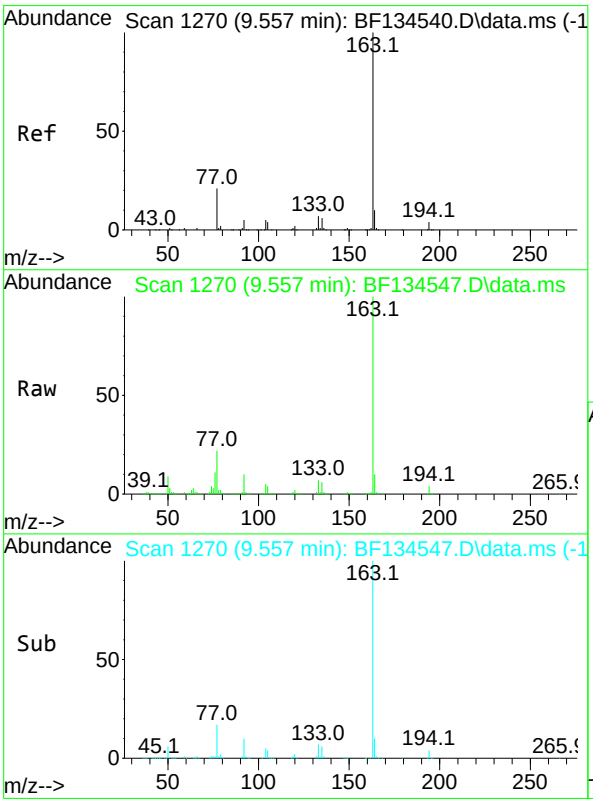
Ion	Ratio	Lower	Upper
152	100		
151	20.9	16.4	24.6
153	14.1	10.9	16.3



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

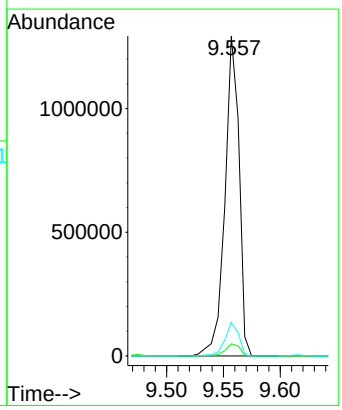
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

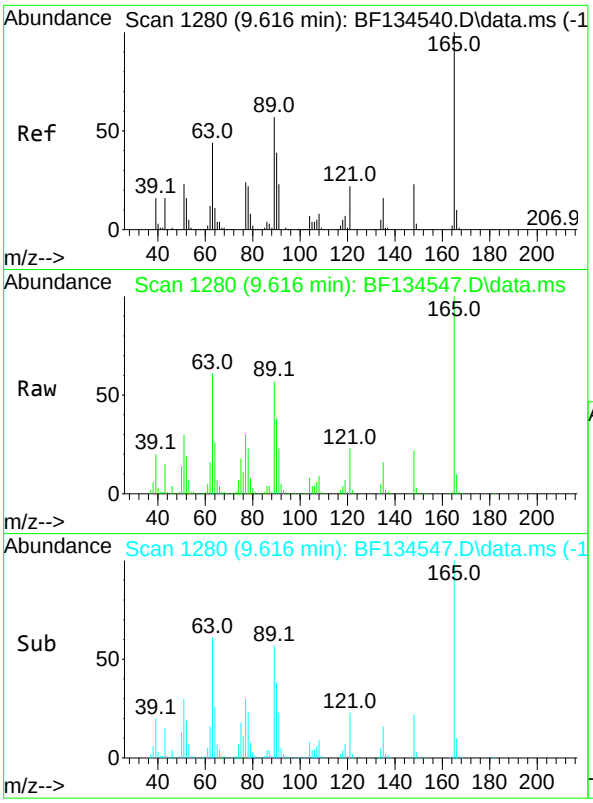


#50
Dimethylphthalate
Concen: 38.014 ng
RT: 9.557 min Scan# 1270
Delta R.T. -0.000 min
Lab File: BF134547.D
Acq: 01 Aug 2023 14:27

Tgt Ion:163 Resp: 1122995

Ion	Ratio	Lower	Upper
163	100		
194	3.8	3.3	4.9
164	10.5	7.5	11.3

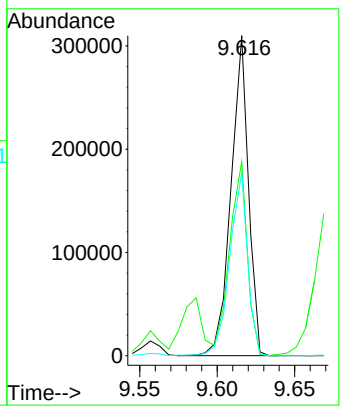




#51
2,6-Dinitrotoluene
Concen: 40.431 ng
RT: 9.616 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF134547.D
Acq: 01 Aug 2023 14:27

Tgt Ion:165 Resp: 24221

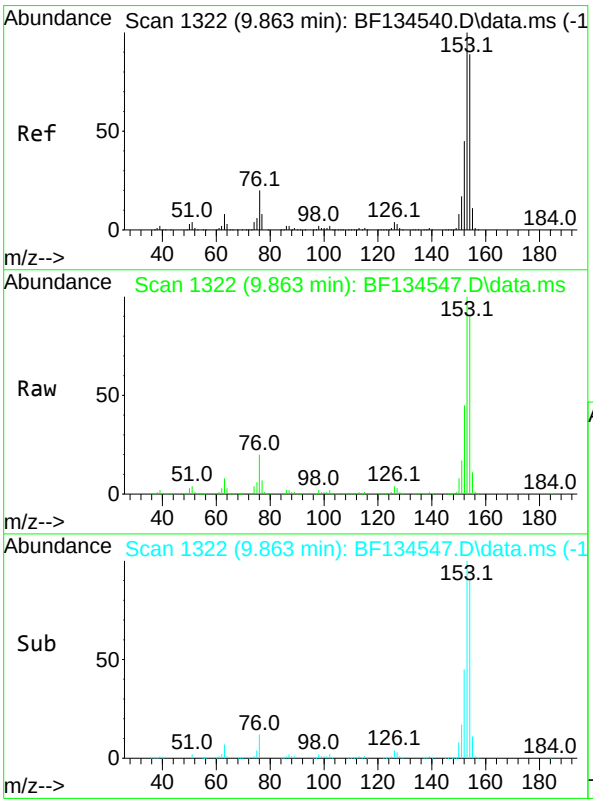
Ion	Ratio	Lower	Upper
165	100		
63	60.6	57.8	86.6
89	57.2	51.8	77.8



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

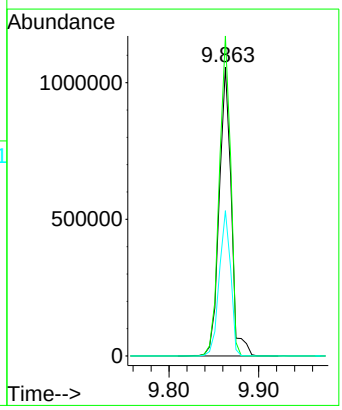
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

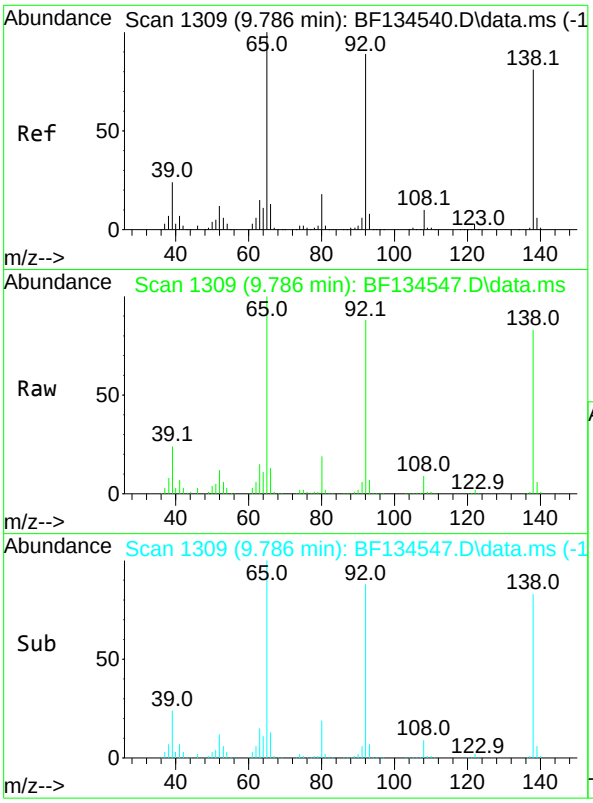


#52
Acenaphthene
Concen: 38.053 ng
RT: 9.863 min Scan# 1322
Delta R.T. -0.000 min
Lab File: BF134547.D
Acq: 01 Aug 2023 14:27

Tgt Ion:154 Resp: 978978

Ion	Ratio	Lower	Upper
154	100		
153	110.8	90.0	135.0
152	50.3	42.4	63.6





#53
3-Nitroaniline
Concen: 43.533 ng
RT: 9.786 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134547.D
Acq: 01 Aug 2023 14:27

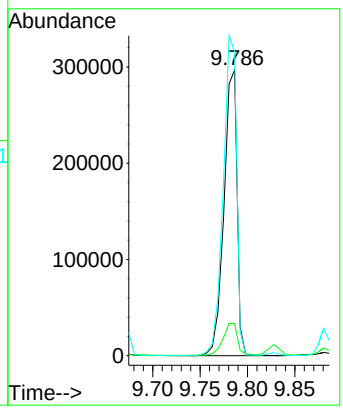
Tgt Ion:138 Resp: 28664

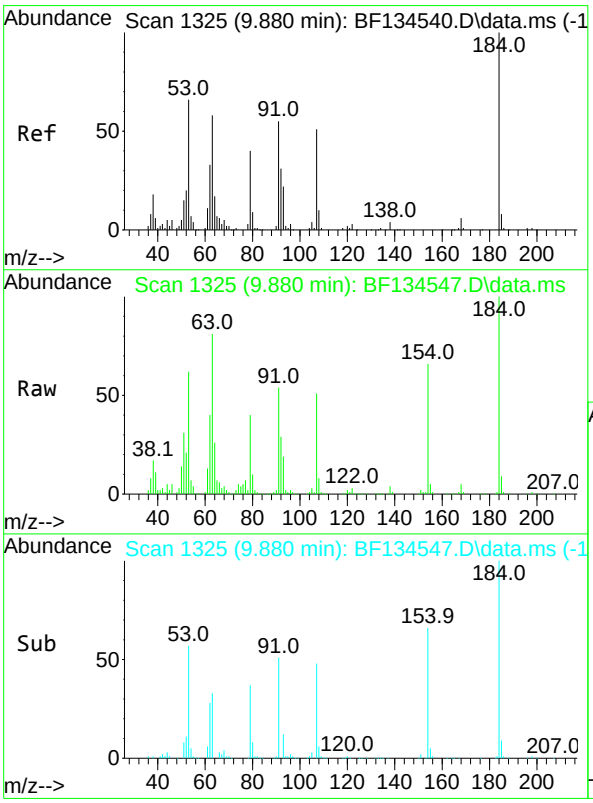
Ion	Ratio	Lower	Upper
138	100		
108	11.3	9.3	13.9
92	106.4	86.6	129.8

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

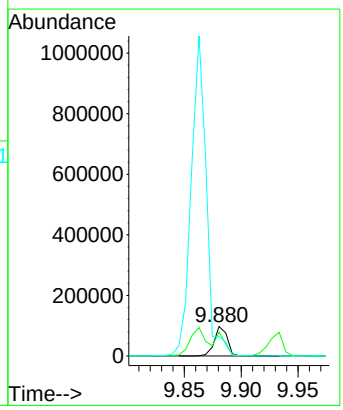


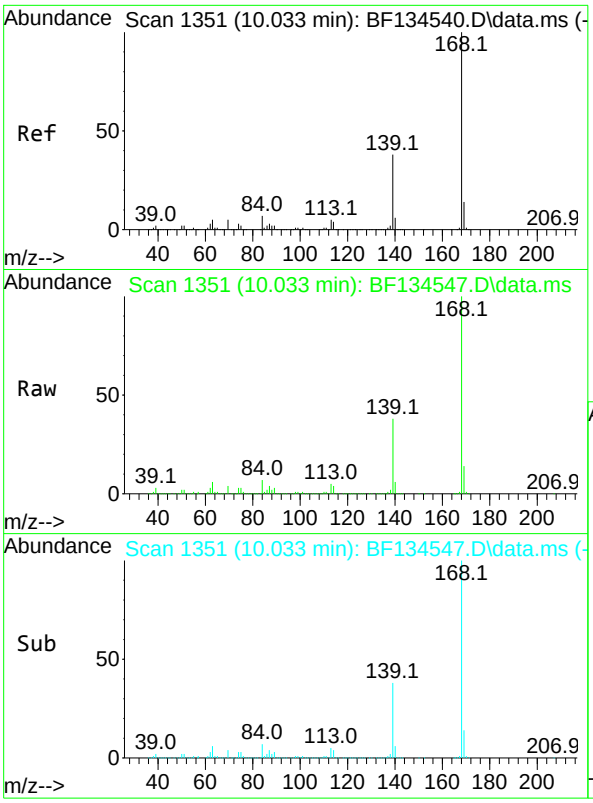


#54
2,4-Dinitrophenol
Concen: 41.901 ng
RT: 9.880 min Scan# 1325
Delta R.T. 0.000 min
Lab File: BF134547.D
Acq: 01 Aug 2023 14:27

Tgt Ion:184 Resp: 76990

Ion	Ratio	Lower	Upper
184	100		
63	81.3	57.1	85.7
154	65.8	59.1	88.7

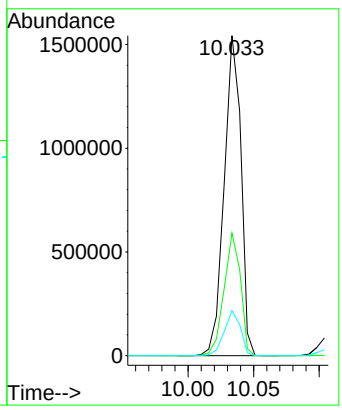




#55
Dibenzofuran
Concen: 37.424 ng
RT: 10.033 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134547.D
Acq: 01 Aug 2023 14:27

Tgt Ion:168 Resp: 137057

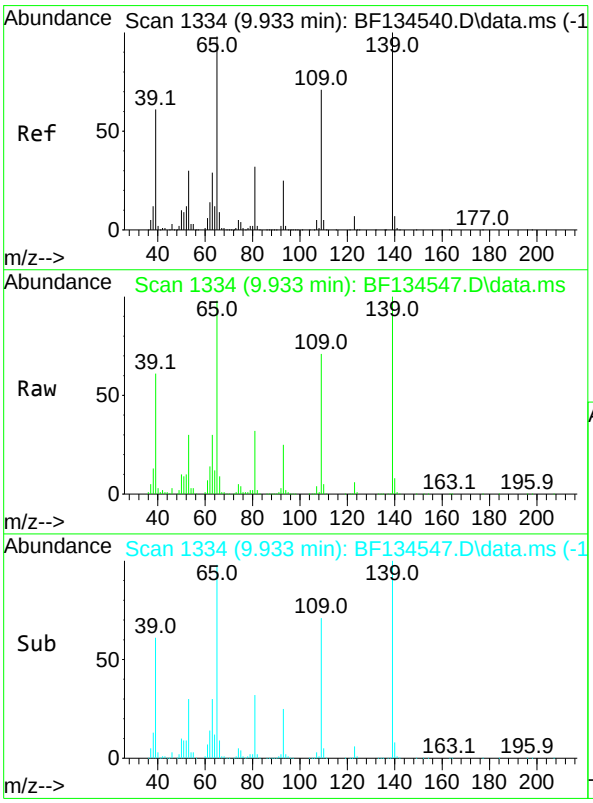
Ion	Ratio	Lower	Upper
168	100		
139	38.3	33.4	50.2
169	14.0	10.6	15.8



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

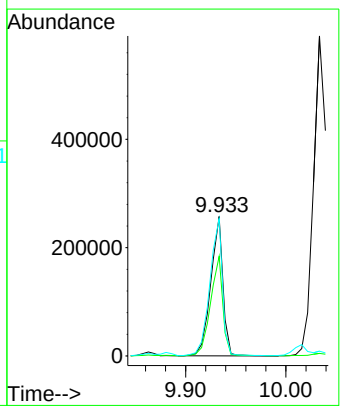
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

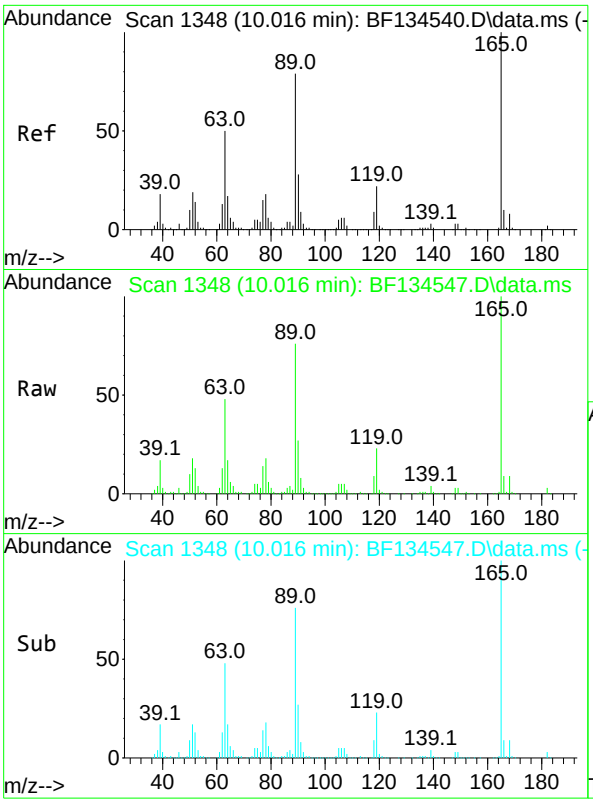


#56
4-Nitrophenol
Concen: 40.307 ng
RT: 9.933 min Scan# 1334
Delta R.T. 0.000 min
Lab File: BF134547.D
Acq: 01 Aug 2023 14:27

Tgt Ion:139 Resp: 217063

Ion	Ratio	Lower	Upper
139	100		
109	71.4	76.9	116.9#
65	98.5	98.5	138.5#

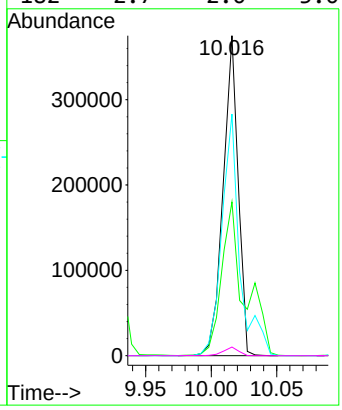




#57
2,4-Dinitrotoluene
Concen: 41.370 ng
RT: 10.016 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF134547.D
Acq: 01 Aug 2023 14:27

Tgt Ion:165 Resp: 29938

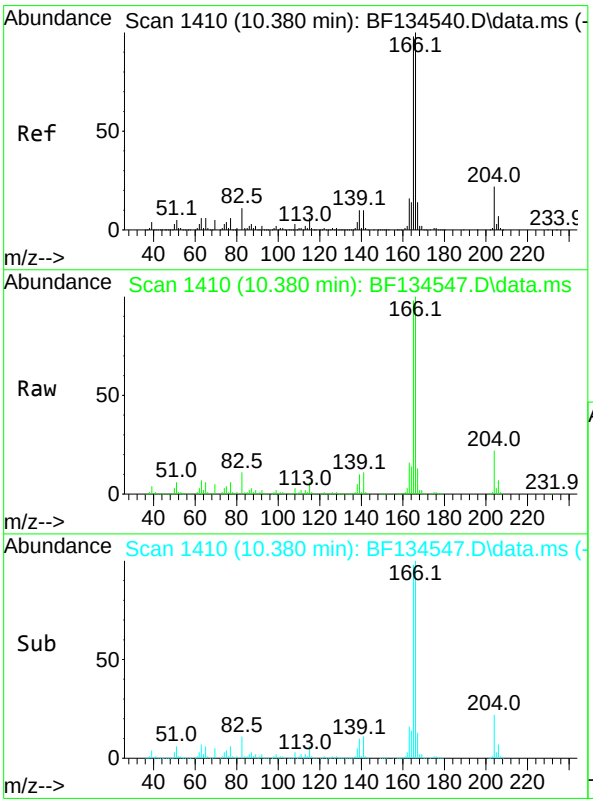
Ion	Ratio	Lower	Upper
165	100		
63	48.1	48.9	73.3#
89	75.5	61.7	92.5
182	2.7	2.0	3.0



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

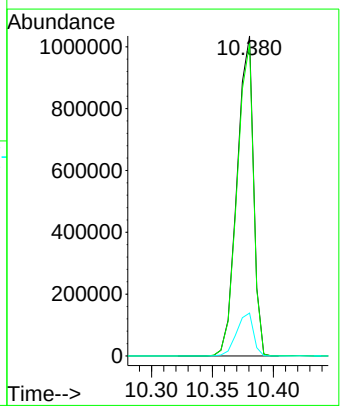
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

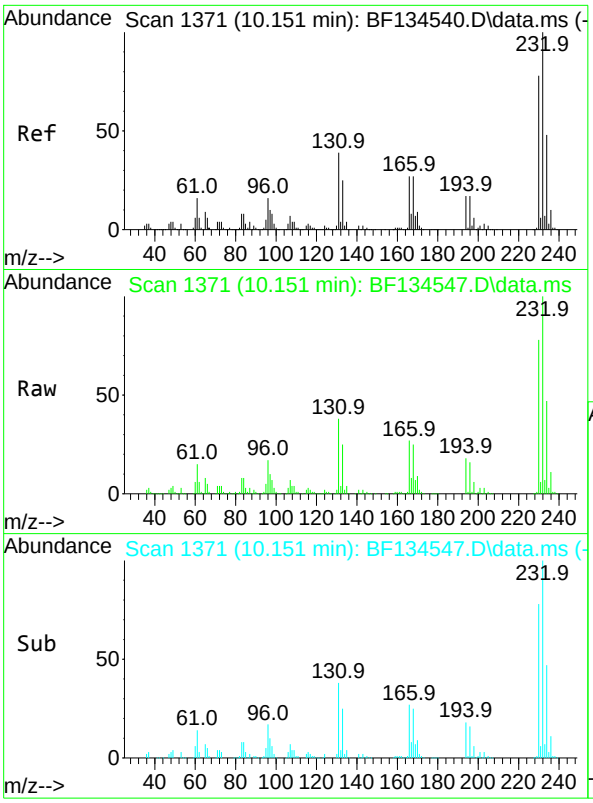


#58
Fluorene
Concen: 36.332 ng
RT: 10.380 min Scan# 1410
Delta R.T. 0.000 min
Lab File: BF134547.D
Acq: 01 Aug 2023 14:27

Tgt Ion:166 Resp: 969176

Ion	Ratio	Lower	Upper
166	100		
165	97.6	74.5	111.7
167	13.4	10.6	16.0

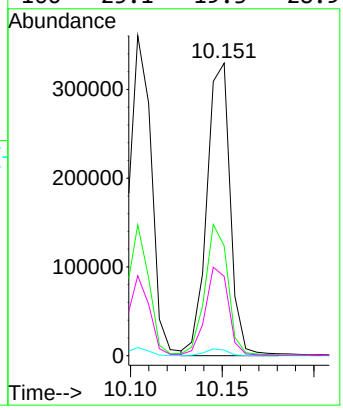




#59
2,3,4,6-Tetrachlorophenol
Concen: 39.257 ng m
RT: 10.151 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134547.D
Acq: 01 Aug 2023 14:27

Tgt Ion:232 Resp: 29280

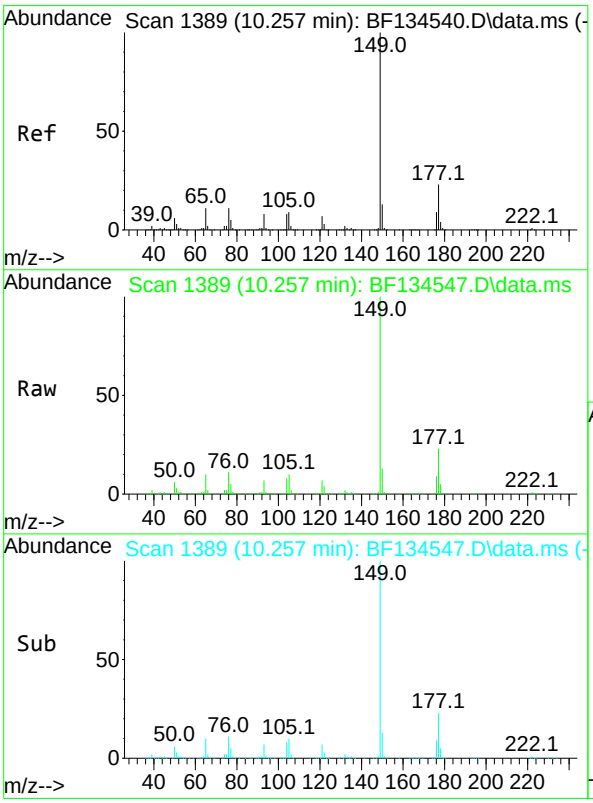
Ion	Ratio	Lower	Upper
232	100		
131	41.3	33.4	50.0
130	2.5	1.8	2.6
166	25.1	19.3	28.9



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

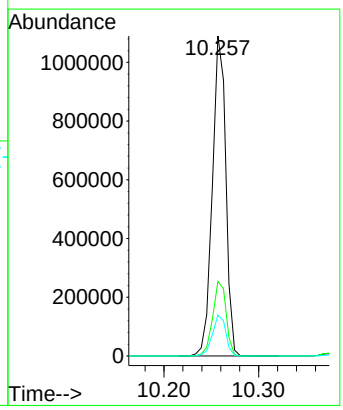
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

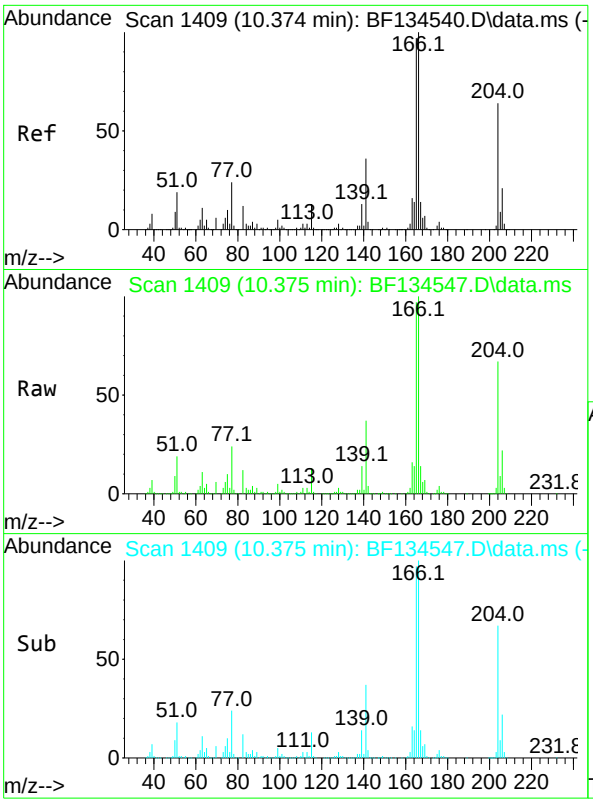


#60
Diethylphthalate
Concen: 38.377 ng
RT: 10.257 min Scan# 1389
Delta R.T. 0.000 min
Lab File: BF134547.D
Acq: 01 Aug 2023 14:27

Tgt Ion:149 Resp: 1074611

Ion	Ratio	Lower	Upper
149	100		
177	23.3	17.0	25.4
150	12.7	9.9	14.9

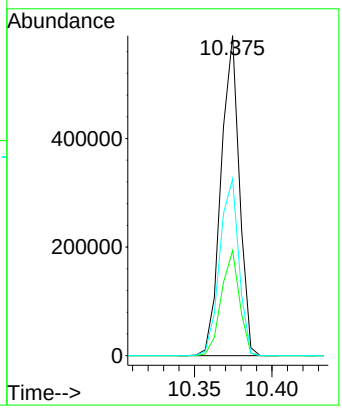




#61
4-Chlorophenyl-phenylether
Concen: 36.992 ng
RT: 10.375 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF134547.D
Acq: 01 Aug 2023 14:27

Tgt Ion:204 Resp: 48503

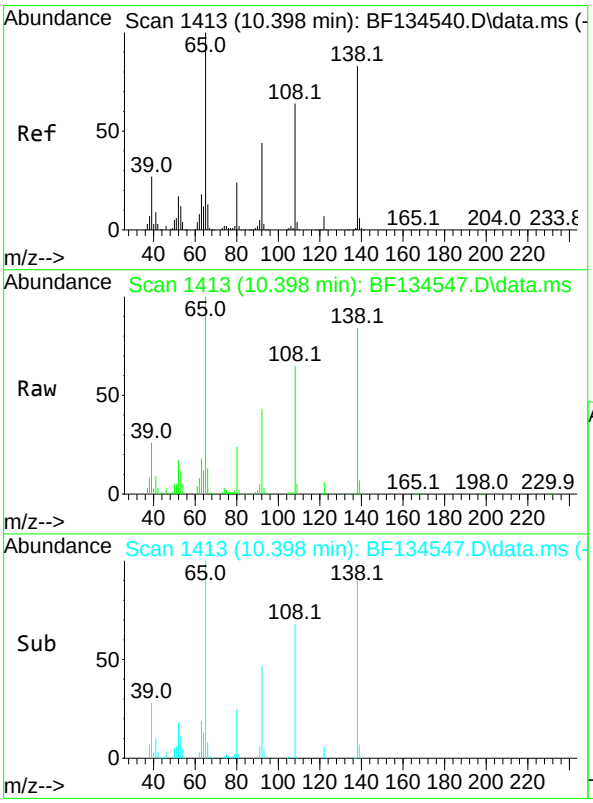
Ion	Ratio	Lower	Upper
204	100		
206	32.9	26.0	39.0
141	55.2	52.2	78.4



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

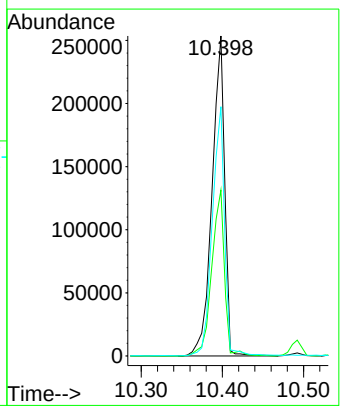
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

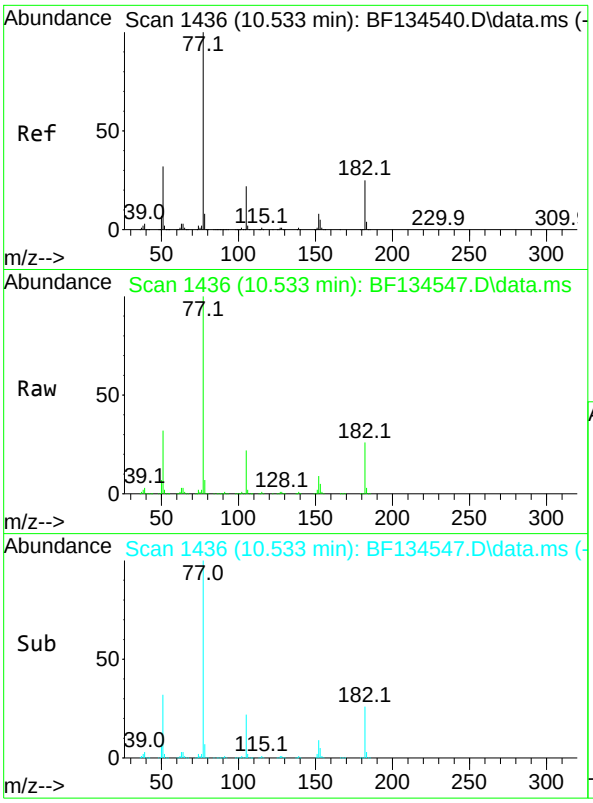


#62
4-Nitroaniline
Concen: 42.341 ng
RT: 10.398 min Scan# 1413
Delta R.T. 0.000 min
Lab File: BF134547.D
Acq: 01 Aug 2023 14:27

Tgt Ion:138 Resp: 273261

Ion	Ratio	Lower	Upper
138	100		
92	51.8	27.0	67.0
108	77.9	70.4	110.4





#63
Azobenzene
Concen: 37.342 ng
RT: 10.533 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF134547.D
Acq: 01 Aug 2023 14:27

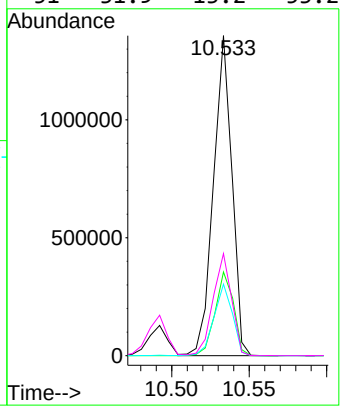
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

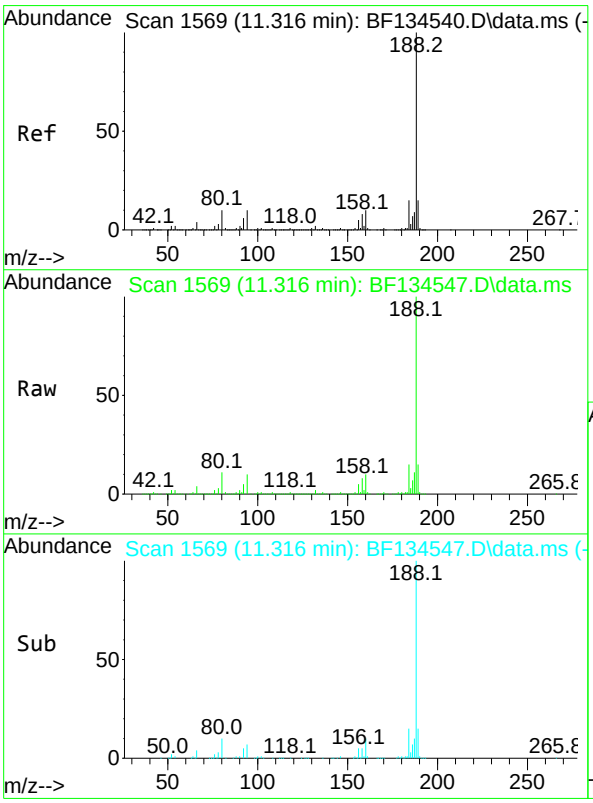
Tgt Ion: 77 Resp: 112341

Ion	Ratio	Lower	Upper
77	100		
182	26.1	7.5	47.5
105	22.4	1.9	41.9
51	31.9	13.2	53.2

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

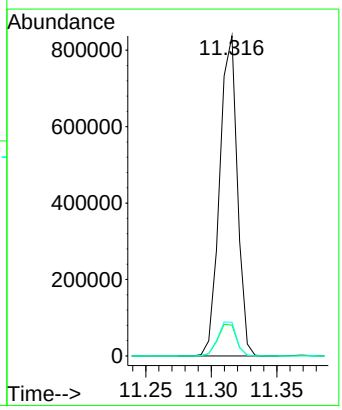


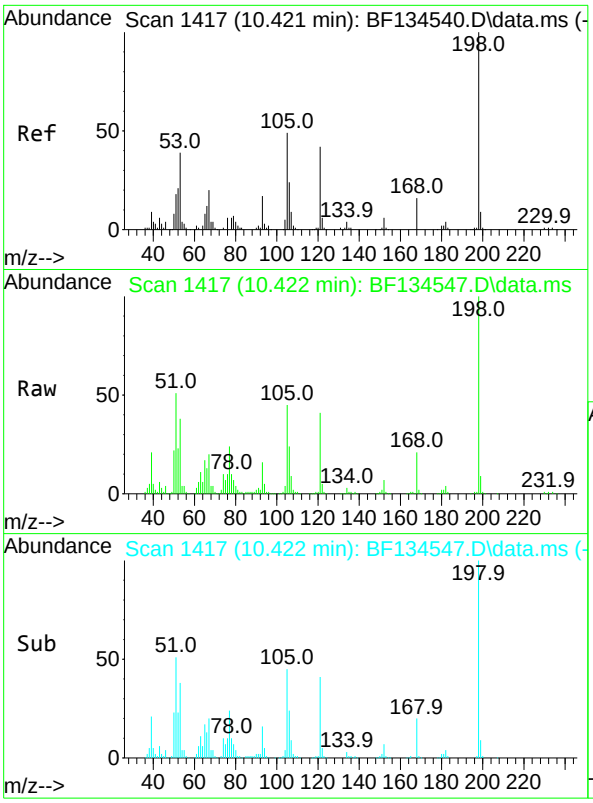


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.316 min Scan# 1569
Delta R.T. 0.000 min
Lab File: BF134547.D
Acq: 01 Aug 2023 14:27

Tgt Ion:188 Resp: 785259

Ion	Ratio	Lower	Upper
188	100		
94	9.6	5.1	7.7#
80	10.6	6.6	9.8#





#65
4,6-Dinitro-2-methylphenol
Concen: 39.641 ng
RT: 10.422 min Scan# 14
Delta R.T. 0.001 min
Lab File: BF134547.D
Acq: 01 Aug 2023 14:27

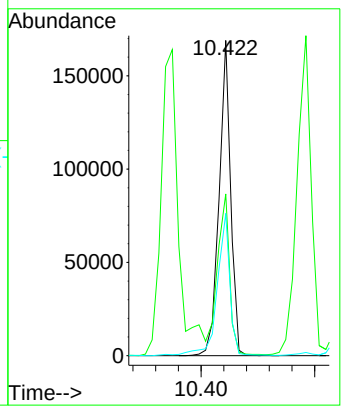
Tgt Ion:198 Resp: 11994

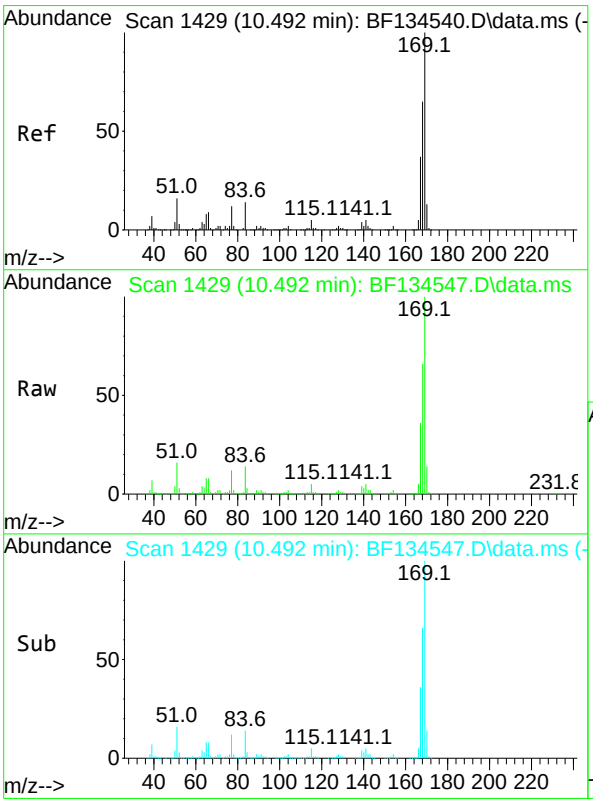
Ion	Ratio	Lower	Upper
198	100		
51	51.3	38.6	78.6
105	45.1	27.9	67.9

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

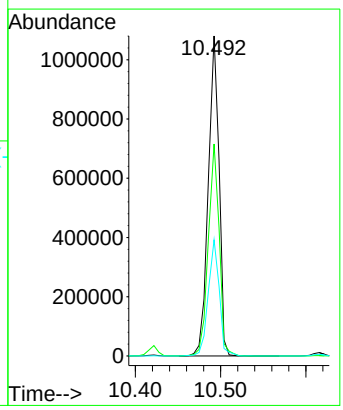


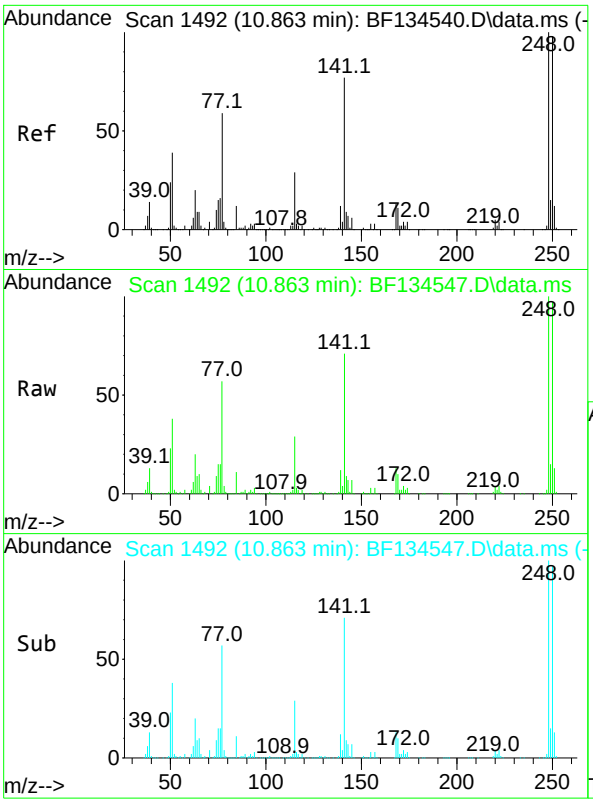


#66
n-Nitrosodiphenylamine
Concen: 37.951 ng
RT: 10.492 min Scan# 1429
Delta R.T. 0.000 min
Lab File: BF134547.D
Acq: 01 Aug 2023 14:27

Tgt Ion:169 Resp: 948547

Ion	Ratio	Lower	Upper
169	100		
168	66.3	52.6	78.8
167	36.3	29.8	44.8

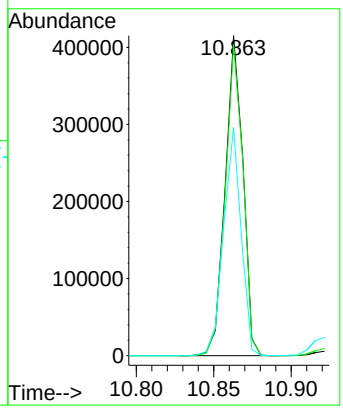




#67
4-Bromophenyl-phenylether
Concen: 38.449 ng
RT: 10.863 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF134547.D
Acq: 01 Aug 2023 14:27

Tgt Ion:248 Resp: 33051

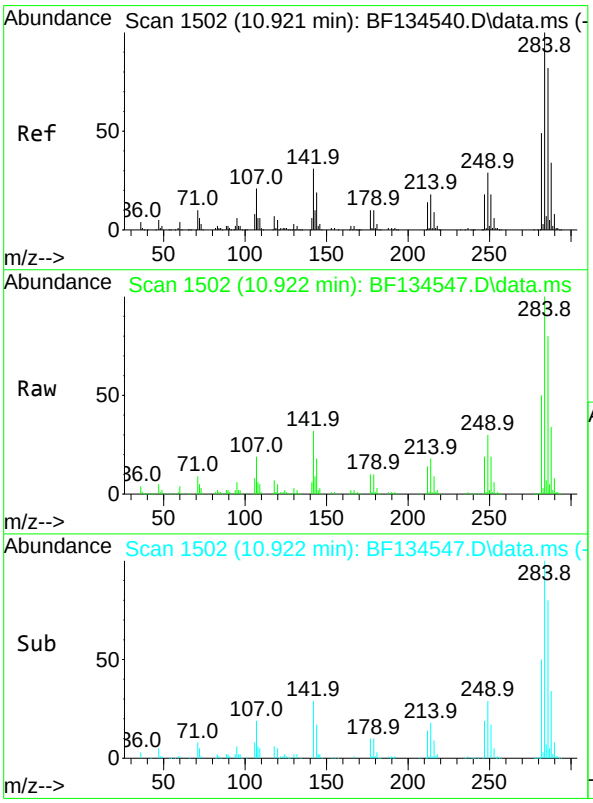
Ion	Ratio	Lower	Upper
248	100		
250	97.2	79.6	119.4
141	71.3	59.6	89.4



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

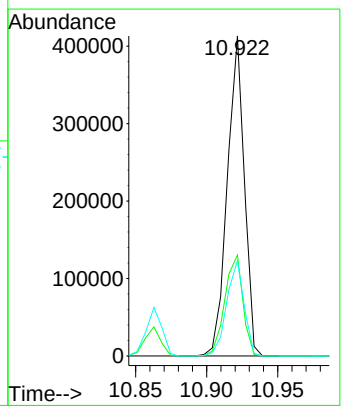
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

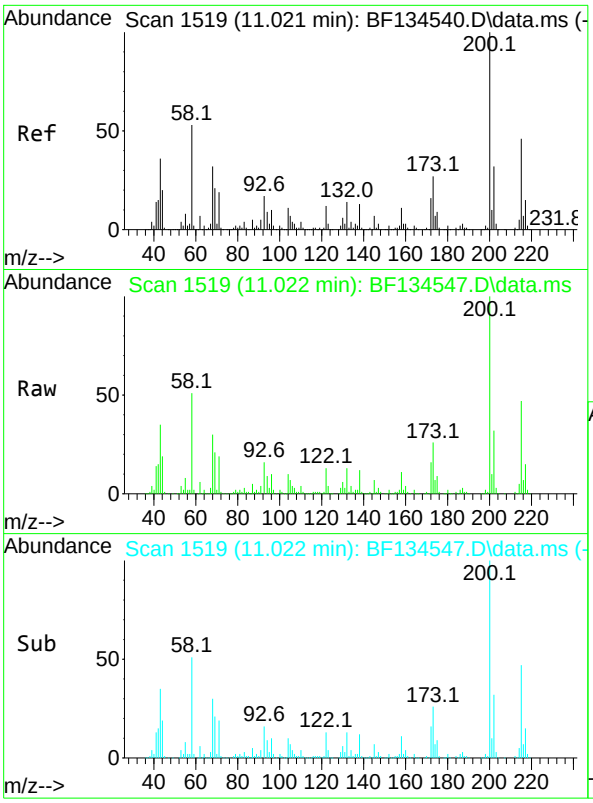


#68
Hexachlorobenzene
Concen: 37.857 ng
RT: 10.922 min Scan# 1502
Delta R.T. 0.000 min
Lab File: BF134547.D
Acq: 01 Aug 2023 14:27

Tgt Ion:284 Resp: 343637

Ion	Ratio	Lower	Upper
284	100		
142	31.5	26.5	39.7
249	29.7	23.8	35.8

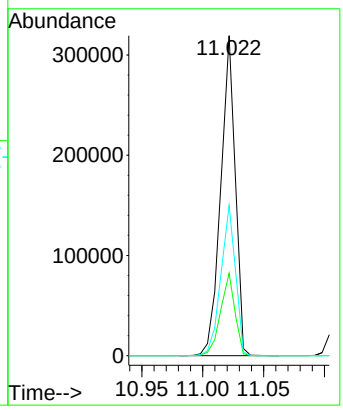




#69
Atrazine
Concen: 39.579 ng
RT: 11.022 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134547.D
Acq: 01 Aug 2023 14:27

Tgt Ion:200 Resp: 26663

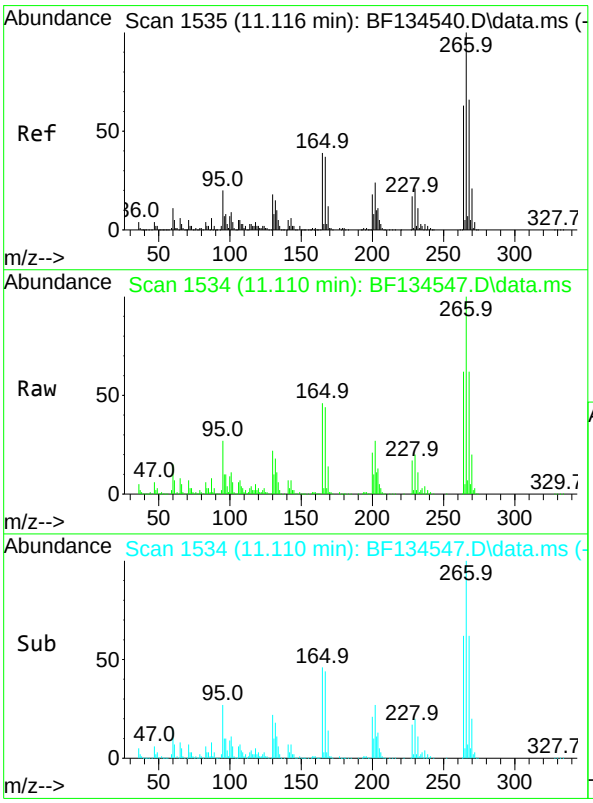
Ion	Ratio	Lower	Upper
200	100		
173	25.8	6.1	46.1
215	47.0	29.7	69.7



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

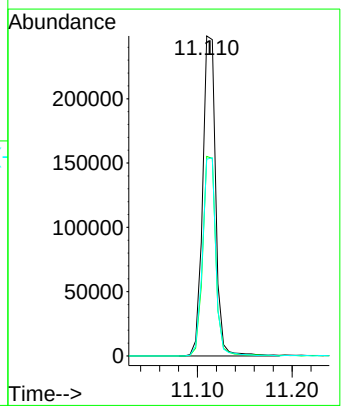
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

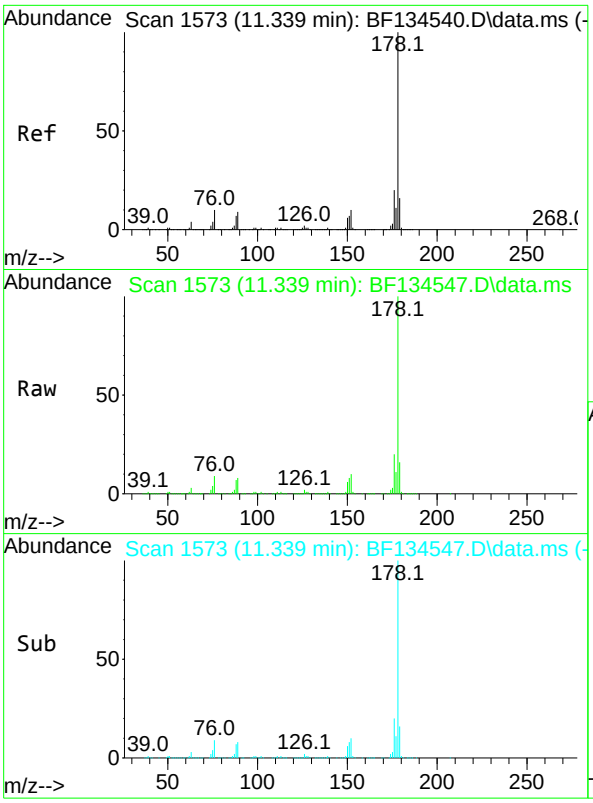


#70
Pentachlorophenol
Concen: 42.417 ng
RT: 11.110 min Scan# 1534
Delta R.T. -0.006 min
Lab File: BF134547.D
Acq: 01 Aug 2023 14:27

Tgt Ion:266 Resp: 238400

Ion	Ratio	Lower	Upper
266	100		
268	62.3	52.9	79.3
264	61.5	47.8	71.6

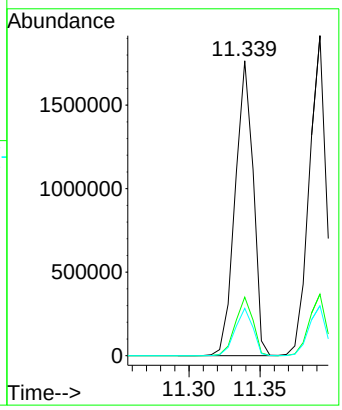




#71
Phenanthrene
Concen: 37.476 ng
RT: 11.339 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134547.D
Acq: 01 Aug 2023 14:27

Tgt Ion:178 Resp: 156311

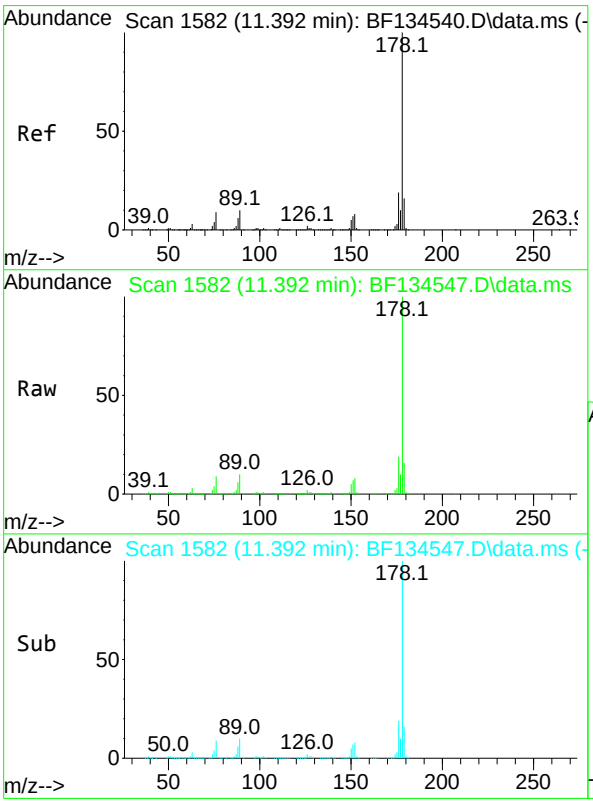
Ion	Ratio	Lower	Upper
178	100		
176	19.8	15.8	23.6
179	16.1	12.7	19.1



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

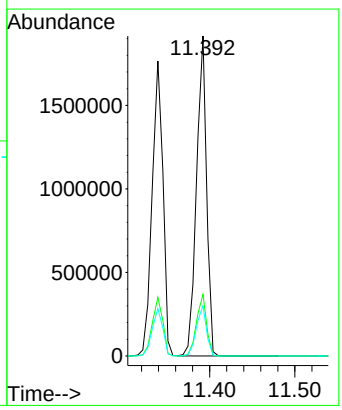
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

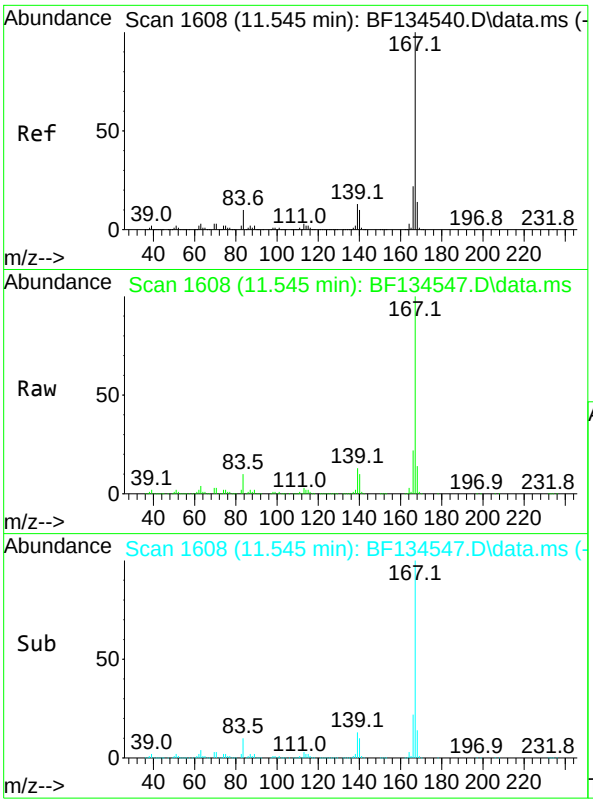


#72
Anthracene
Concen: 37.016 ng
RT: 11.392 min Scan# 1582
Delta R.T. 0.000 min
Lab File: BF134547.D
Acq: 01 Aug 2023 14:27

Tgt Ion:178 Resp: 1577058

Ion	Ratio	Lower	Upper
178	100		
176	19.2	14.6	21.8
179	15.6	12.3	18.5

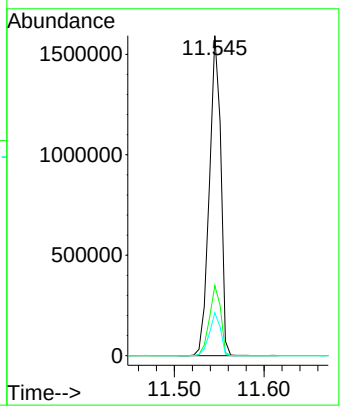




#73
Carbazole
Concen: 36.990 ng
RT: 11.545 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134547.D
Acq: 01 Aug 2023 14:27

Tgt Ion:167 Resp: 140709

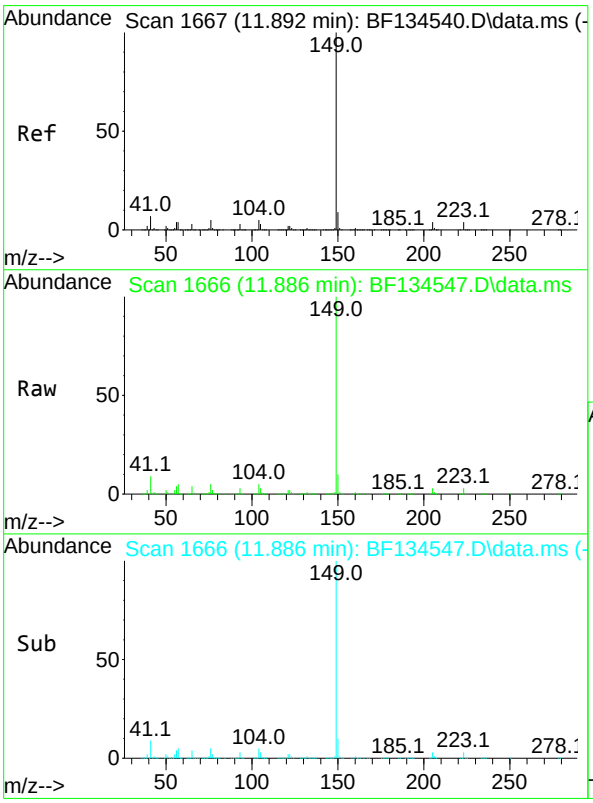
Ion	Ratio	Lower	Upper
167	100		
166	21.9	17.5	26.3
139	13.4	11.0	16.4



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

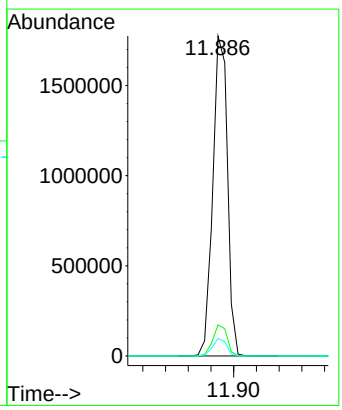
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

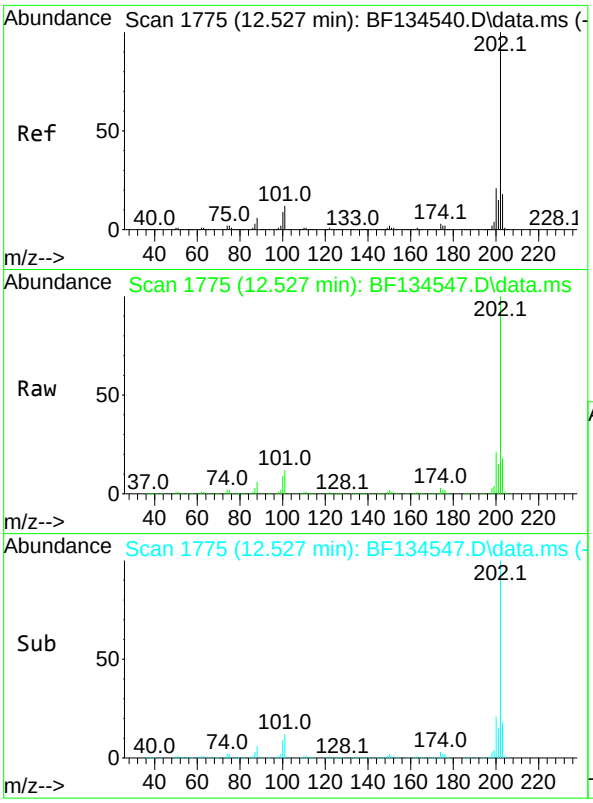


#74
Di-n-butylphthalate
Concen: 39.313 ng
RT: 11.886 min Scan# 1666
Delta R.T. -0.006 min
Lab File: BF134547.D
Acq: 01 Aug 2023 14:27

Tgt Ion:149 Resp: 1588808

Ion	Ratio	Lower	Upper
149	100		
150	9.7	7.2	10.8
104	5.5	3.8	5.8

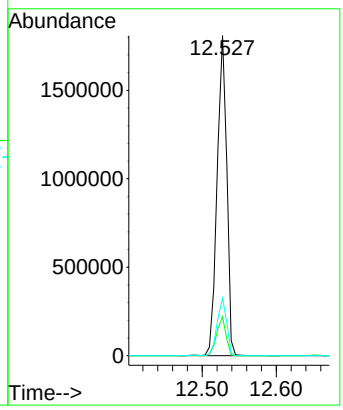




#75
Fluoranthene
Concen: 36.989 ng
RT: 12.527 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134547.D
Acq: 01 Aug 2023 14:27

Tgt Ion:202 Resp: 162970

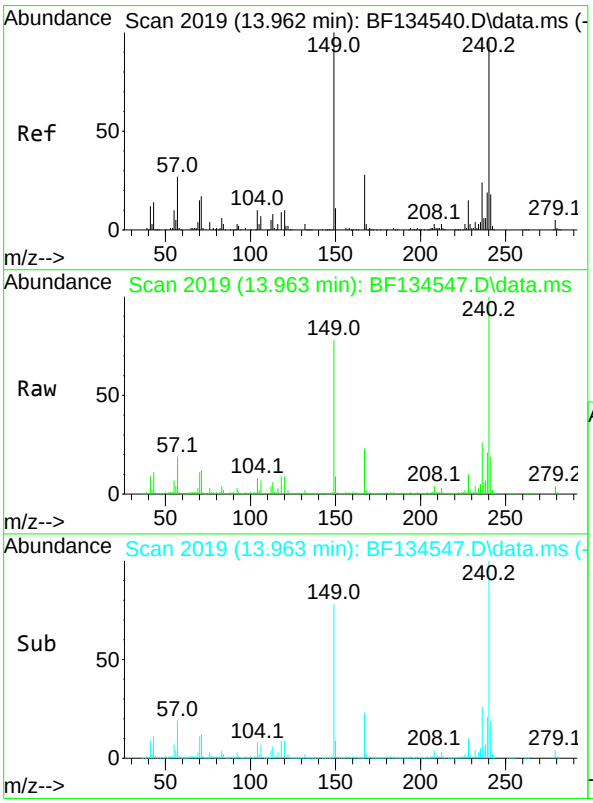
Ion	Ratio	Lower	Upper
202	100		
101	12.2	0.0	28.5
203	18.0	0.0	37.5



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

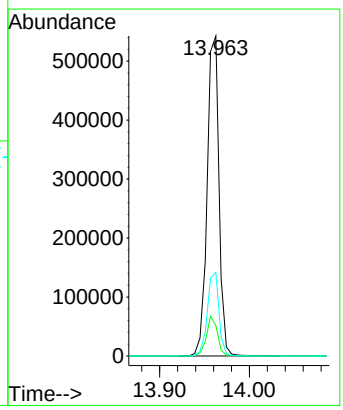
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

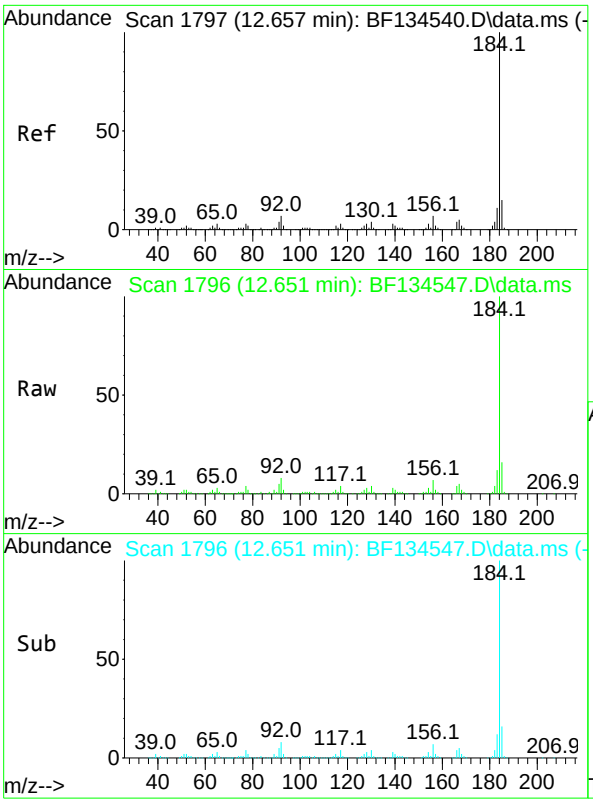


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.963 min Scan# 2019
Delta R.T. 0.000 min
Lab File: BF134547.D
Acq: 01 Aug 2023 14:27

Tgt Ion:240 Resp: 498206

Ion	Ratio	Lower	Upper
240	100		
120	9.5	6.6	10.0
236	26.1	20.2	30.2

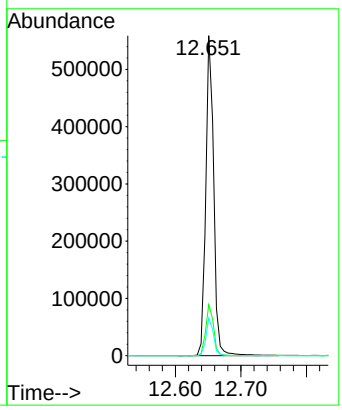




#77
Benzidine
Concen: 43.482 ng
RT: 12.651 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF134547.D
Acq: 01 Aug 2023 14:27

Tgt Ion:184 Resp: 47025

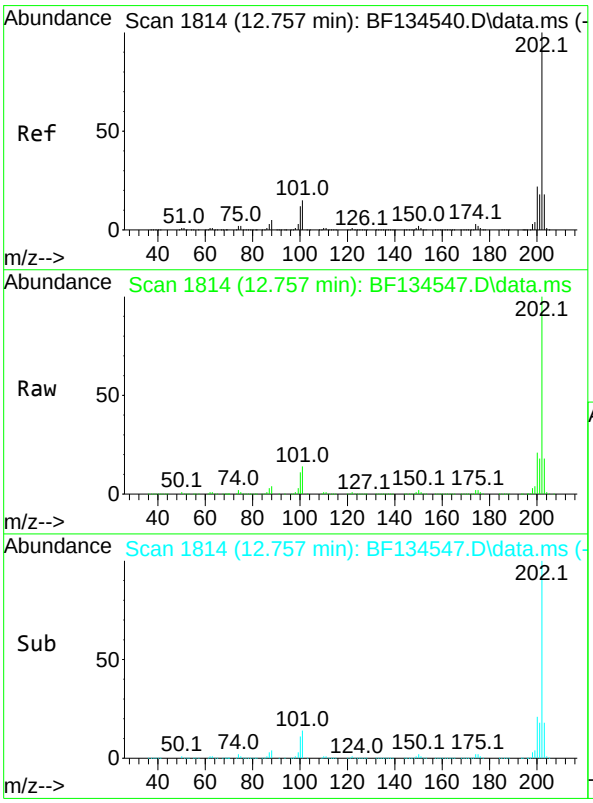
Ion	Ratio	Lower	Upper
184	100		
185	16.0	11.2	16.8
183	11.8	8.6	13.0



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

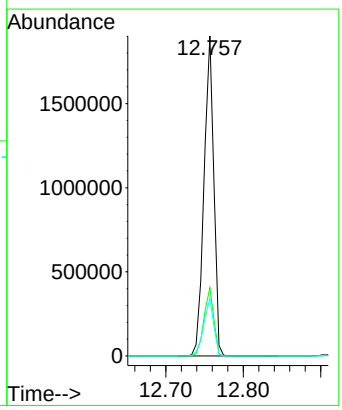
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

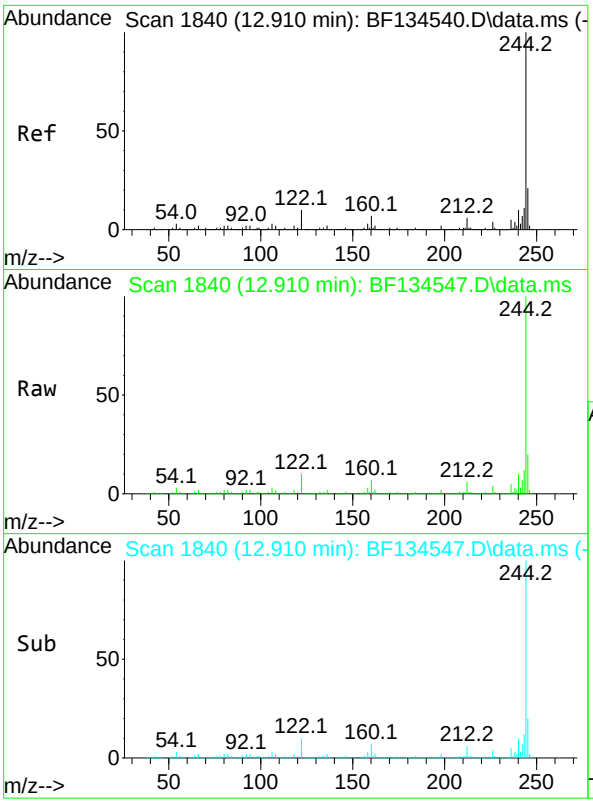


#78
Pyrene
Concen: 38.655 ng
RT: 12.757 min Scan# 1814
Delta R.T. 0.000 min
Lab File: BF134547.D
Acq: 01 Aug 2023 14:27

Tgt Ion:202 Resp: 1666439

Ion	Ratio	Lower	Upper
202	100		
200	21.4	15.8	23.8
203	18.0	13.5	20.3

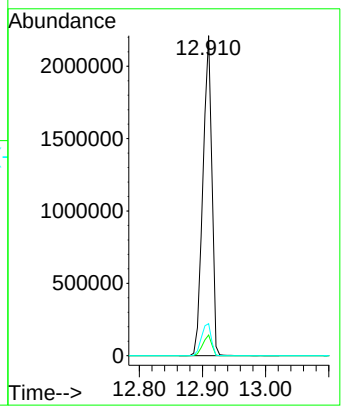




#79
Terphenyl-d14
Concen: 76.921 ng
RT: 12.910 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134547.D
Acq: 01 Aug 2023 14:27

Tgt Ion:244 Resp: 217388

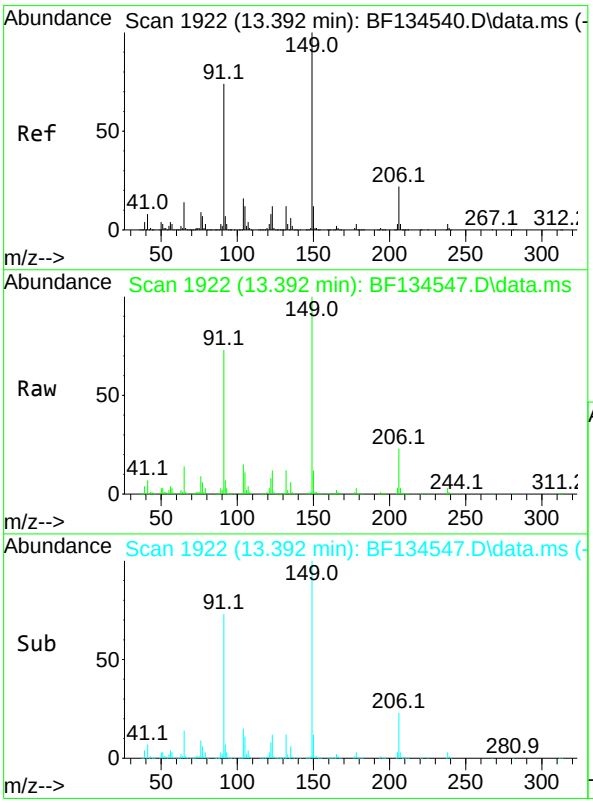
Ion	Ratio	Lower	Upper
244	100		
212	6.5	5.6	8.4
122	10.0	8.0	12.0



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

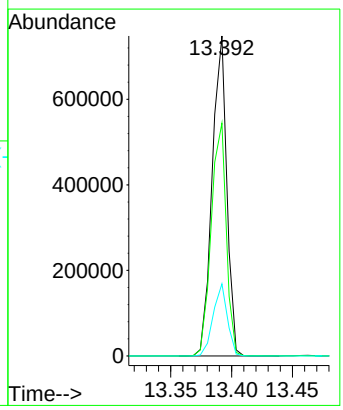
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

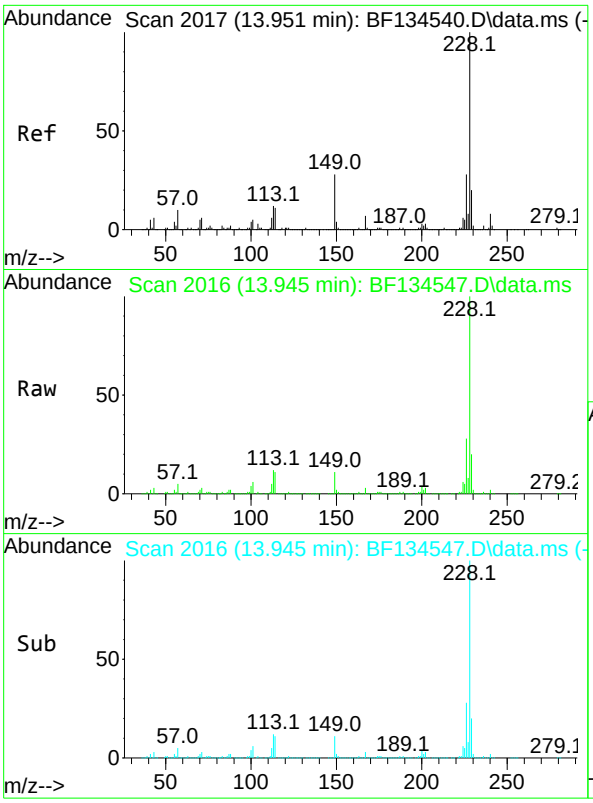


#80
Butylbenzylphthalate
Concen: 42.714 ng
RT: 13.392 min Scan# 1922
Delta R.T. 0.000 min
Lab File: BF134547.D
Acq: 01 Aug 2023 14:27

Tgt Ion:149 Resp: 622664

Ion	Ratio	Lower	Upper
149	100		
91	72.7	55.8	83.6
206	22.6	14.6	21.8#

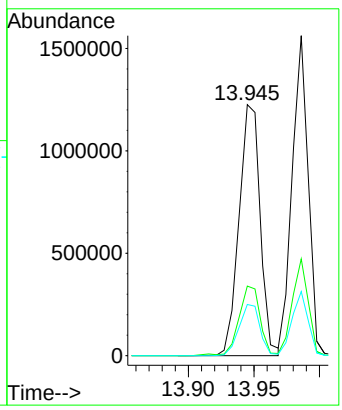




#81
Benzo(a)anthracene
Concen: 38.738 ng
RT: 13.945 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF134547.D
Acq: 01 Aug 2023 14:27

Tgt Ion:228 Resp: 137999

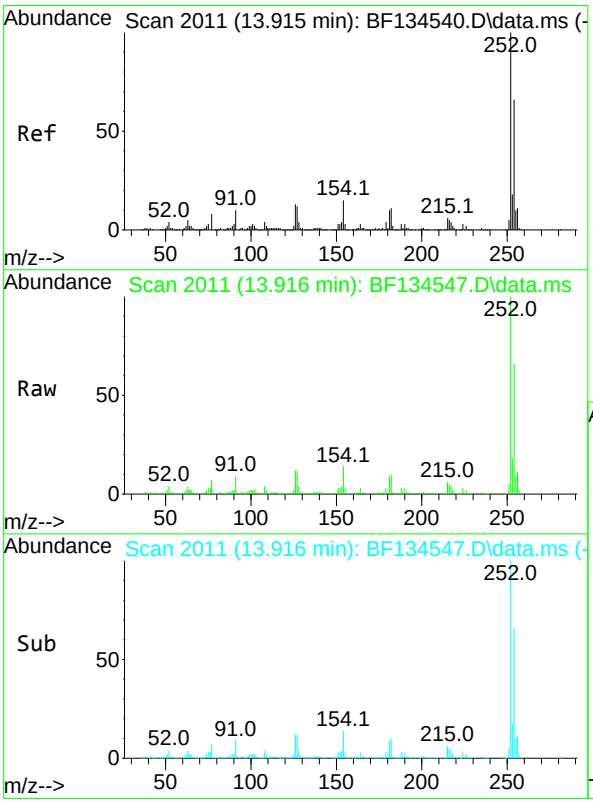
Ion	Ratio	Lower	Upper
228	100		
226	27.7	22.3	33.5
229	20.4	15.8	23.6



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

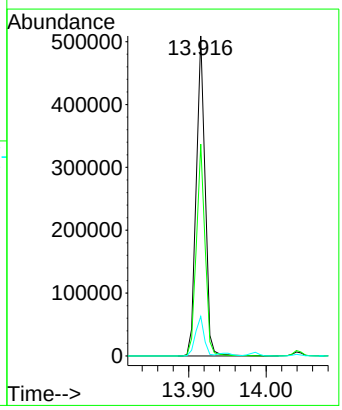
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

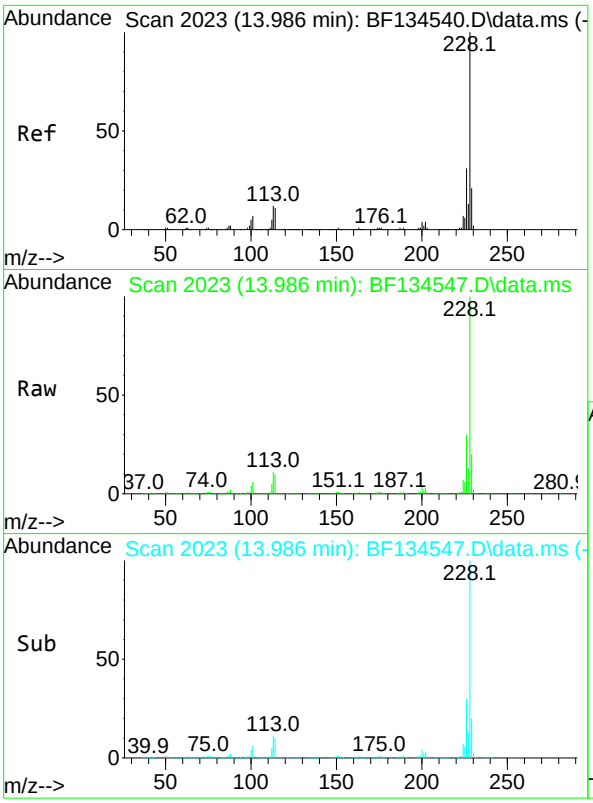


#82
3,3'-Dichlorobenzidine
Concen: 39.254 ng
RT: 13.916 min Scan# 2011
Delta R.T. 0.000 min
Lab File: BF134547.D
Acq: 01 Aug 2023 14:27

Tgt Ion:252 Resp: 405343

Ion	Ratio	Lower	Upper
252	100		
254	66.2	52.7	79.1
126	12.3	7.2	10.8#

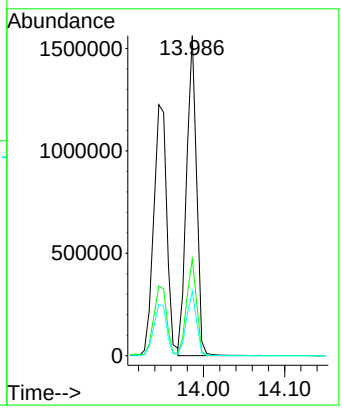




#83
Chrysene
Concen: 38.435 ng
RT: 13.986 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF134547.D
Acq: 01 Aug 2023 14:27

Tgt Ion:228 Resp: 133397

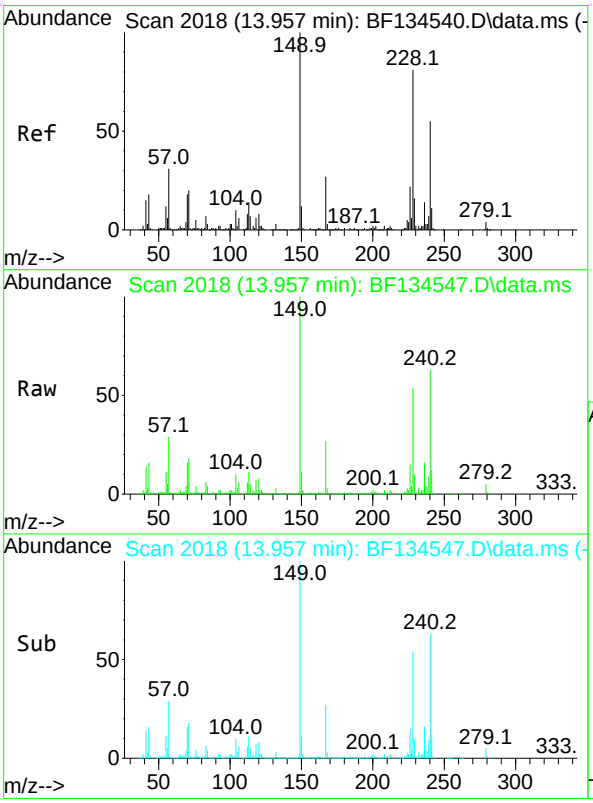
Ion	Ratio	Lower	Upper
228	100		
226	30.2	24.5	36.7
229	20.1	15.8	23.8



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

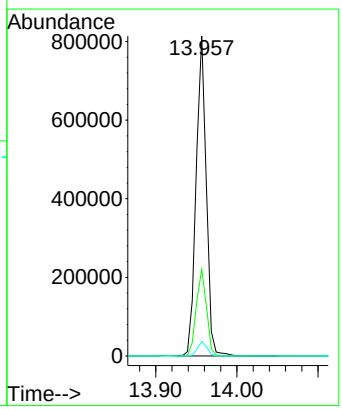
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

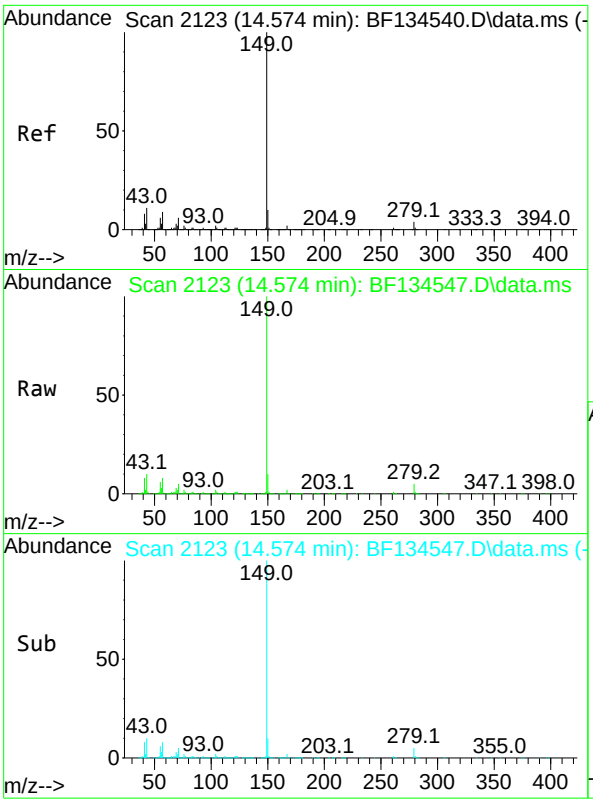


#84
Bis(2-ethylhexyl)phthalate
Concen: 41.571 ng
RT: 13.957 min Scan# 2018
Delta R.T. 0.000 min
Lab File: BF134547.D
Acq: 01 Aug 2023 14:27

Tgt Ion:149 Resp: 713153

Ion	Ratio	Lower	Upper
149	100		
167	27.0	21.6	32.4
279	4.5	3.5	5.3

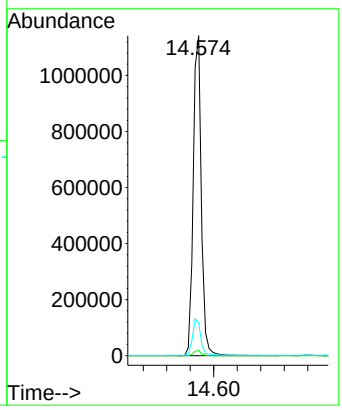




#85
Di-n-octyl phthalate
Concen: 41.835 ng
RT: 14.574 min Scan# 21
Delta R.T. 0.000 min
Lab File: BF134547.D
Acq: 01 Aug 2023 14:27

Tgt Ion:149 Resp: 109138

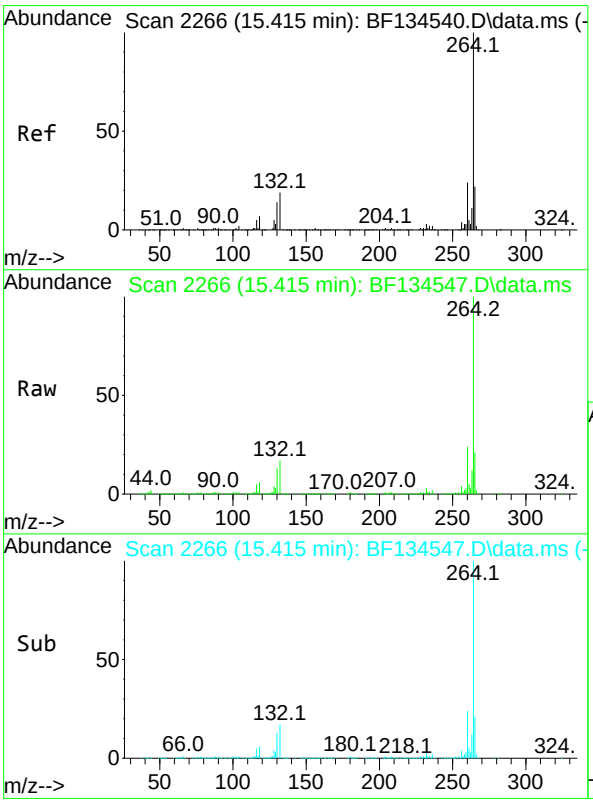
Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.2	1.8
43	11.5	8.1	12.1



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

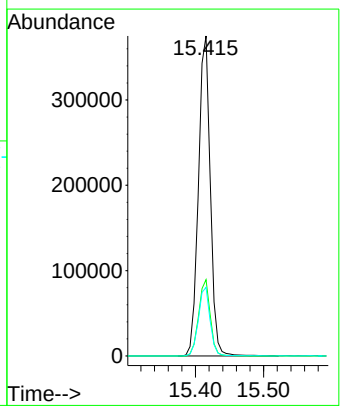
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

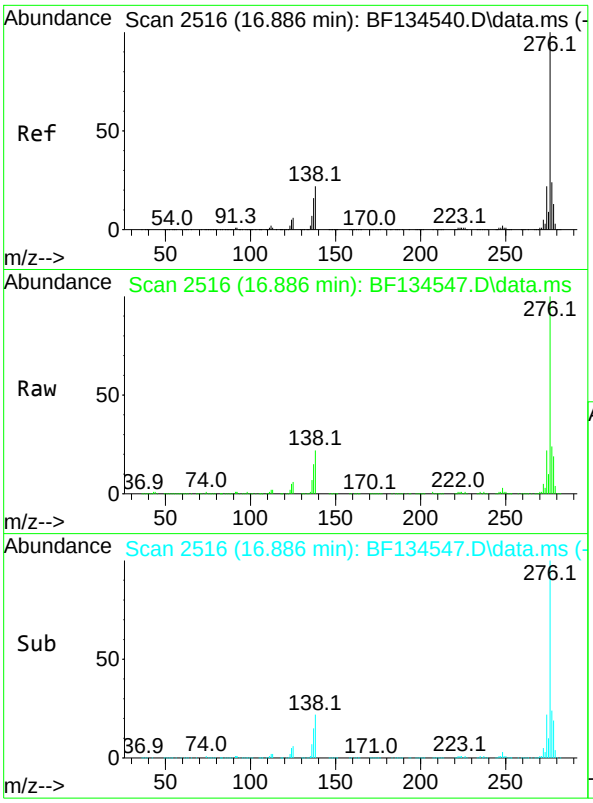


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.415 min Scan# 2266
Delta R.T. 0.000 min
Lab File: BF134547.D
Acq: 01 Aug 2023 14:27

Tgt Ion:264 Resp: 453778

Ion	Ratio	Lower	Upper
264	100		
260	23.9	18.4	27.6
265	21.4	15.8	23.8

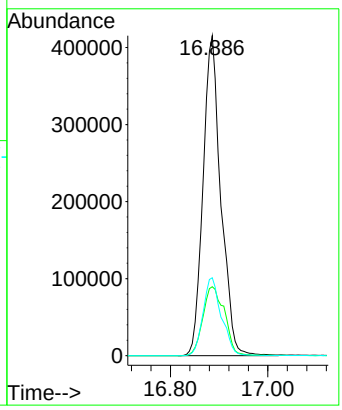




#87
Indeno(1,2,3-cd)pyrene
Concen: 39.587 ng
RT: 16.886 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF134547.D
Acq: 01 Aug 2023 14:27

Tgt Ion:276 Resp: 105649

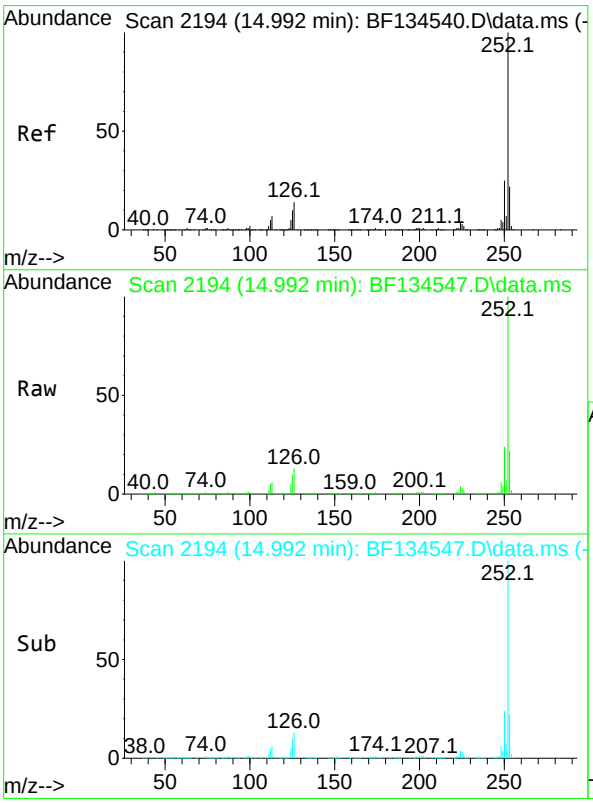
Ion	Ratio	Lower	Upper
276	100		
138	26.2	14.2	21.4#
277	25.2	19.9	29.9



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

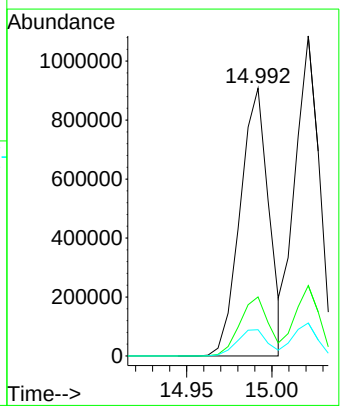
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

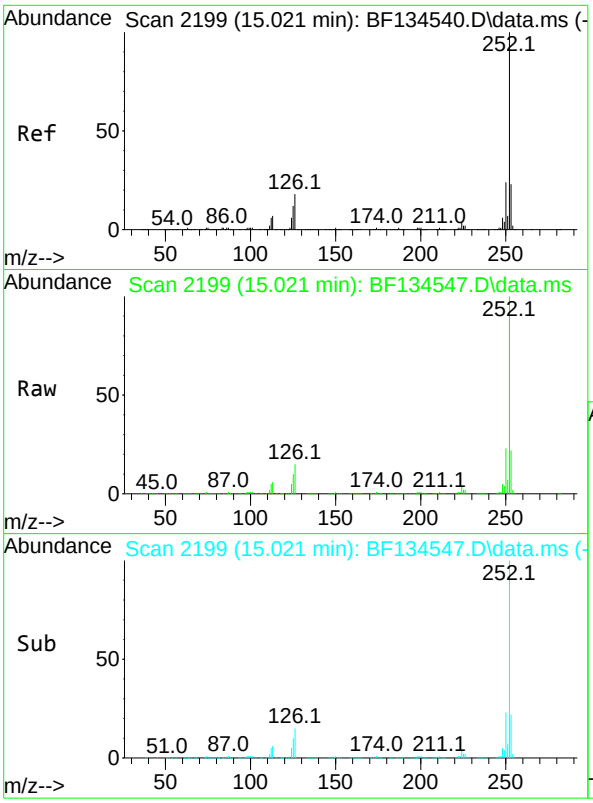


#88
Benzo(b)fluoranthene
Concen: 38.414 ng
RT: 14.992 min Scan# 2194
Delta R.T. 0.000 min
Lab File: BF134547.D
Acq: 01 Aug 2023 14:27

Tgt Ion:252 Resp: 1063120

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.3	25.9
125	9.8	6.0	9.0#

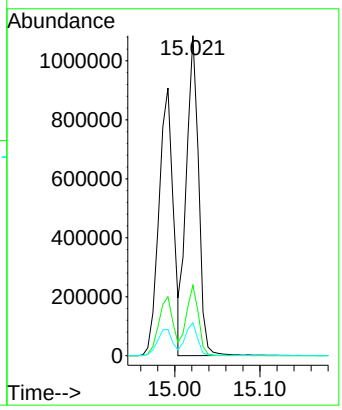




#89
Benzo(k)fluoranthene
Concen: 39.336 ng
RT: 15.021 min Scan# 21
Delta R.T. 0.000 min
Lab File: BF134547.D
Acq: 01 Aug 2023 14:27

Tgt Ion:252 Resp: 108447

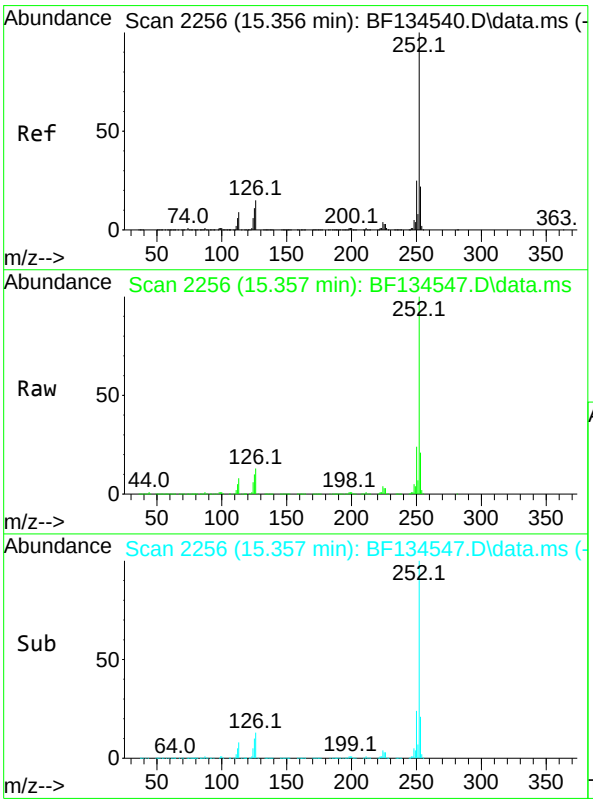
Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.9	26.9
125	10.3	6.3	9.5#



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

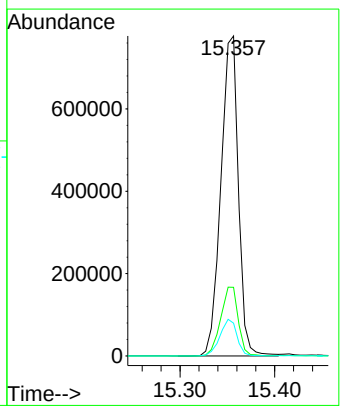
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023

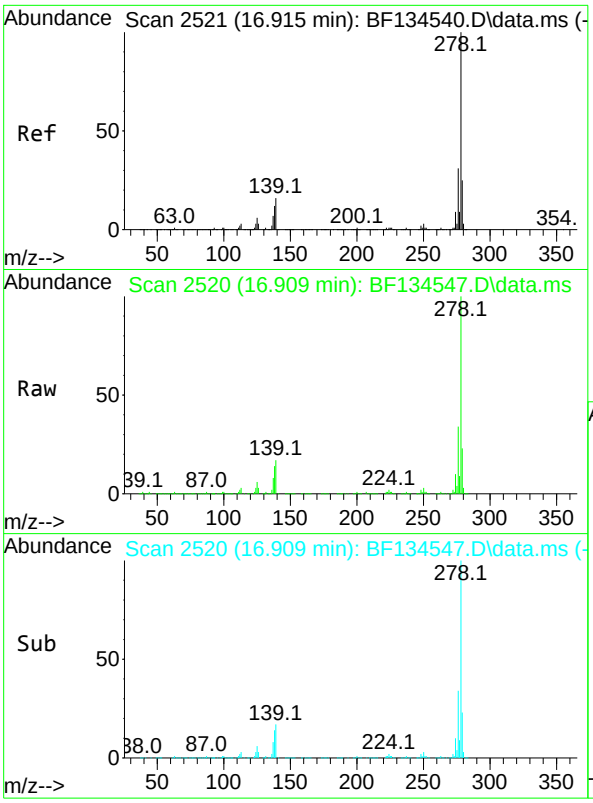


#90
Benzo(a)pyrene
Concen: 38.721 ng
RT: 15.357 min Scan# 2256
Delta R.T. 0.000 min
Lab File: BF134547.D
Acq: 01 Aug 2023 14:27

Tgt Ion:252 Resp: 999163

Ion	Ratio	Lower	Upper
252	100		
253	21.5	17.0	25.4
125	10.2	6.2	9.4#

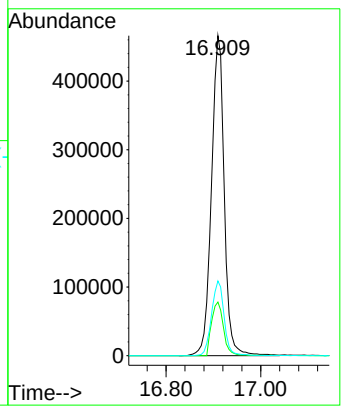




#91
Dibenzo(a,h)anthracene
Concen: 40.459 ng
RT: 16.909 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF134547.D
Acq: 01 Aug 2023 14:27

Tgt Ion:278 Resp: 87262

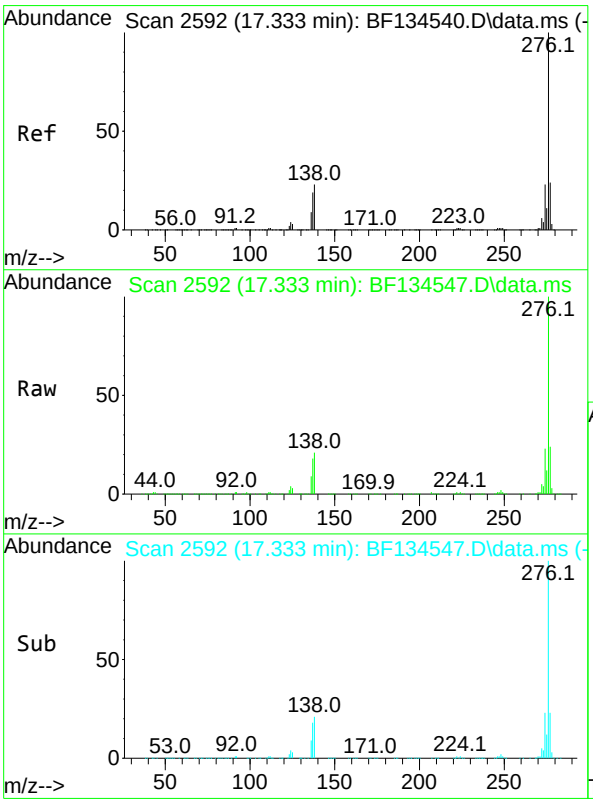
Ion	Ratio	Lower	Upper
278	100		
139	16.7	10.0	15.0#
279	23.4	19.7	29.5



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

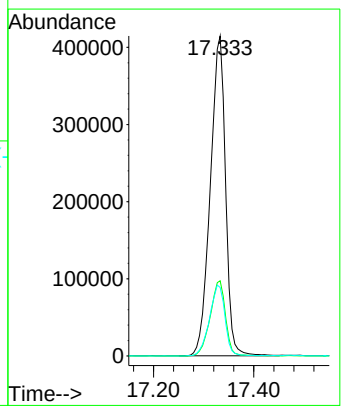
Reviewed By :Yogesh Patel 08/02/2023
Supervised By :mohammad ahmed 08/02/2023



#92
Benzo(g,h,i)perylene
Concen: 39.729 ng
RT: 17.333 min Scan# 2592
Delta R.T. 0.000 min
Lab File: BF134547.D
Acq: 01 Aug 2023 14:27

Tgt Ion:276 Resp: 874057

Ion	Ratio	Lower	Upper
276	100		
277	23.5	19.0	28.6
138	21.4	12.2	18.2#



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080123\
Data File : BF134547.D
Acq On : 01 Aug 2023 14:27
Operator : CG\JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Aug 02 02:43:05 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 02 02:20:34 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	103	0.00
2		1,4-Dioxane	0.605	0.560	7.4	96	0.00
3		Pyridine	1.640	1.541	6.0	98	0.00
4		n-Nitrosodimethylamine	0.784	0.751	4.2	98	0.00
5	S	2-Fluorophenol	1.316	1.223	7.1	97	0.00
6		Aniline	2.206	2.091	5.2	99	0.00
7	S	Phenol-d6	1.682	1.592	5.4	99	0.00
8		2-Chlorophenol	1.327	1.292	2.6	100	0.00
9		Benzaldehyde	0.917	0.752	18.0	97	0.00
10	C	Phenol	1.657	1.566	5.5	96	0.00
11		bis(2-Chloroethyl)ether	1.317	1.262	4.2	100	0.00
12		1,3-Dichlorobenzene	1.373	1.301	5.2	99	0.00
13	C	1,4-Dichlorobenzene	1.376	1.292	6.1	97	0.00
14		1,2-Dichlorobenzene	1.282	1.212	5.5	98	0.00
15		Benzyl Alcohol	1.160	1.126	2.9	100	0.00
16		2,2'-oxybis(1-Chloropropane	2.063	1.983	3.9	100	0.00
17		2-Methylphenol	1.173	1.131	3.6	100	0.00
18		Hexachloroethane	0.483	0.477	1.2	103	0.00
19	P	n-Nitroso-di-n-propylamine	1.007	0.939	6.8	99	0.00
20		3+4-Methylphenols	1.414	1.345	4.9	98	0.00
21	I	Naphthalene-d8	1.000	1.000	0.0	107	0.00
22		Acetophenone	0.462	0.421	8.9	99	0.00
23	S	Nitrobenzene-d5	0.320	0.333	-4.1	105	0.00
24		Nitrobenzene	0.346	0.350	-1.2	103	0.00
25		Isophorone	0.698	0.655	6.2	102	0.00
26	C	2-Nitrophenol	0.122	0.147	-20.5#	114	0.00
27		2,4-Dimethylphenol	0.311	0.295	5.1	103	0.00
28		bis(2-Chloroethoxy)methane	0.418	0.397	5.0	103	0.00
29	C	2,4-Dichlorophenol	0.283	0.270	4.6	100	0.00
30		1,2,4-Trichlorobenzene	0.301	0.286	5.0	102	0.00
31		Naphthalene	1.005	0.928	7.7	98	0.00
32		Benzoic acid	0.176	0.200	-13.6	121	0.00
33		4-Chloroaniline	0.448	0.409	8.7	99	0.00
34	C	Hexachlorobutadiene	0.174	0.165	5.2	102	0.00
35		Caprolactam	0.091	0.087	4.4	98	0.00
36	C	4-Chloro-3-methylphenol	0.299	0.284	5.0	101	0.00
37		2-Methylnaphthalene	0.666	0.621	6.8	101	0.00
38		1-Methylnaphthalene	0.620	0.580	6.5	101	0.00
39	I	Acenaphthene-d10	1.000	1.000	0.0	109	0.00
40		1,2,4,5-Tetrachlorobenzene	0.582	0.543	6.7	101	0.00
41	P	Hexachlorocyclopentadiene	0.283	0.291	-2.8	103	0.00
42	S	2,4,6-Tribromophenol	0.204	0.206	-1.0	104	0.00
43	C	2,4,6-Trichlorophenol	0.381	0.373	2.1	103	0.00
44		2,4,5-Trichlorophenol	0.435	0.430	1.1	104	0.00
45	S	2-Fluorobiphenyl	1.203	1.132	5.9	101	0.00
46		1,1'-Biphenyl	1.555	1.466	5.7	102	0.00
47		2-Chloronaphthalene	1.165	1.093	6.2	101	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080123\
Data File : BF134547.D
Acq On : 01 Aug 2023 14:27
Operator : CG\JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Aug 02 02:43:05 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 02 02:20:34 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
48		2-Nitroaniline	0.316	0.362	-14.6	109	0.00
49		Acenaphthylene	1.832	1.718	6.2	101	0.00
50		Dimethylphthalate	1.363	1.295	5.0	103	0.00
51		2,6-Dinitrotoluene	0.248	0.279	-12.5	108	0.00
52	C	Acenaphthene	1.187	1.129	4.9	103	0.00
53		3-Nitroaniline	0.304	0.331	-8.9	105	0.00
54	P	2,4-Dinitrophenol	0.079	0.089	-12.7	125	0.00
55		Dibenzofuran	1.690	1.581	6.4	99	0.00
56	P	4-Nitrophenol	0.248	0.250	-0.8	105	0.00
57		2,4-Dinitrotoluene	0.292	0.345	-18.2	110	0.00
58		Fluorene	1.231	1.118	9.2	101	0.00
59		2,3,4,6-Tetrachlorophenol	0.344	0.338	1.7	102	0.00
60		Diethylphthalate	1.292	1.240	4.0	102	0.00
61		4-Chlorophenyl-phenylether	0.605	0.560	7.4	103	0.00
62		4-Nitroaniline	0.298	0.315	-5.7	103	0.00
63		Azobenzene	1.388	1.296	6.6	100	0.00
64	I	Phenanthrene-d10	1.000	1.000	0.0	108	0.00
65		4,6-Dinitro-2-methylphenol	0.069	0.076	-10.1	117	0.00
66	c	n-Nitrosodiphenylamine	0.637	0.604	5.2	102	0.00
67		4-Bromophenyl-phenylether	0.219	0.210	4.1	103	0.00
68		Hexachlorobenzene	0.231	0.219	5.2	100	0.00
69		Atrazine	0.172	0.170	1.2	107	0.00
70	C	Pentachlorophenol	0.143	0.152	-6.3	105	0.00
71		Phenanthrene	1.062	0.995	6.3	100	0.00
72		Anthracene	1.085	1.004	7.5	99	0.00
73		Carbazole	0.969	0.896	7.5	99	0.00
74		Di-n-butylphthalate	1.029	1.012	1.7	103	0.00
75	C	Fluoranthene	1.122	1.038	7.5	97	0.00
76	I	Chrysene-d12	1.000	1.000	0.0	102	0.00
77		Benzidine	0.434	0.472	-8.8	100	0.00
78		Pyrene	1.731	1.672	3.4	98	0.00
79	S	Terphenyl-d14	1.135	1.091	3.9	98	0.00
80		Butylbenzylphthalate	0.585	0.625	-6.8	102	0.00
81		Benzo(a)anthracene	1.430	1.385	3.1	98	0.00
82		3,3'-Dichlorobenzidine	0.415	0.407	1.9	100	0.00
83		Chrysene	1.393	1.339	3.9	98	0.00
84		Bis(2-ethylhexyl)phthalate	0.689	0.716	-3.9	101	0.00
85	c	Di-n-octyl phthalate	1.047	1.095	-4.6	102	0.00
86	I	Perylene-d12	1.000	1.000	0.0	103	0.00
87		Indeno(1,2,3-cd)pyrene	1.176	1.164	1.0	95	0.00
88		Benzo(b)fluoranthene	1.220	1.171	4.0	99	0.00
89		Benzo(k)fluoranthene	1.215	1.195	1.6	95	0.00
90	C	Benzo(a)pyrene	1.137	1.101	3.2	96	0.00
91		Dibenzo(a,h)anthracene	0.951	0.962	-1.2	97	0.00
92		Benzo(g,h,i)perylene	0.970	0.963	0.7	95	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080123\
Data File : BF134547.D
Acq On : 01 Aug 2023 14:27
Operator : CG\JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Aug 02 02:43:05 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 02 02:20:34 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev Area%	Dev(min)

(#) = Out of Range SPCC's out = 0 CCC's out = 1

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080123\
Data File : BF134547.D
Acq On : 01 Aug 2023 14:27
Operator : CG\JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Aug 02 02:43:05 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 02 02:20:34 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	20.000	20.000	0.0	103	0.00
2		1,4-Dioxane	40.000	36.984	7.5	96	0.00
3		Pyridine	40.000	37.584	6.0	98	0.00
4		n-Nitrosodimethylamine	40.000	38.319	4.2	98	0.00
5	S	2-Fluorophenol	80.000	74.381	7.0	97	0.00
6		Aniline	40.000	37.921	5.2	99	0.00
7	S	Phenol-d6	80.000	75.709	5.4	99	0.00
8		2-Chlorophenol	40.000	38.931	2.7	100	0.00
9		Benzaldehyde	40.000	35.734	10.7	97	0.00
10	C	Phenol	40.000	37.795	5.5	96	0.00
11		bis(2-Chloroethyl)ether	40.000	38.335	4.2	100	0.00
12		1,3-Dichlorobenzene	40.000	37.898	5.3	99	0.00
13	C	1,4-Dichlorobenzene	40.000	37.539	6.2	97	0.00
14		1,2-Dichlorobenzene	40.000	37.809	5.5	98	0.00
15		Benzyl Alcohol	40.000	38.812	3.0	100	0.00
16		2,2'-oxybis(1-Chloropropane	40.000	38.463	3.8	100	0.00
17		2-Methylphenol	40.000	38.580	3.6	100	0.00
18		Hexachloroethane	40.000	39.467	1.3	103	0.00
19	P	n-Nitroso-di-n-propylamine	40.000	37.295	6.8	99	0.00
20		3+4-Methylphenols	40.000	38.023	4.9	98	0.00
21	I	Naphthalene-d8	20.000	20.000	0.0	107	0.00
22		Acetophenone	40.000	36.484	8.8	99	0.00
23	S	Nitrobenzene-d5	80.000	83.256	-4.1	105	0.00
24		Nitrobenzene	40.000	40.478	-1.2	103	0.00
25		Isophorone	40.000	37.507	6.2	102	0.00
26	C	2-Nitrophenol	40.000	40.707	-1.8	114	0.00
27		2,4-Dimethylphenol	40.000	37.874	5.3	103	0.00
28		bis(2-Chloroethoxy)methane	40.000	38.011	5.0	103	0.00
29	C	2,4-Dichlorophenol	40.000	38.217	4.5	100	0.00
30		1,2,4-Trichlorobenzene	40.000	37.981	5.0	102	0.00
31		Naphthalene	40.000	36.933	7.7	98	0.00
32		Benzoic acid	40.000	40.774	-1.9	121	0.00
33		4-Chloroaniline	40.000	36.487	8.8	99	0.00
34	C	Hexachlorobutadiene	40.000	37.905	5.2	102	0.00
35		Caprolactam	40.000	38.158	4.6	98	0.00
36	C	4-Chloro-3-methylphenol	40.000	37.988	5.0	101	0.00
37		2-Methylnaphthalene	40.000	37.265	6.8	101	0.00
38		1-Methylnaphthalene	40.000	37.431	6.4	101	0.00
39	I	Acenaphthene-d10	20.000	20.000	0.0	109	0.00
40		1,2,4,5-Tetrachlorobenzene	40.000	37.332	6.7	101	0.00
41	P	Hexachlorocyclopentadiene	40.000	41.199	-3.0	103	0.00
42	S	2,4,6-Tribromophenol	80.000	80.907	-1.1	104	0.00
43	C	2,4,6-Trichlorophenol	40.000	39.177	2.1	103	0.00
44		2,4,5-Trichlorophenol	40.000	39.535	1.2	104	0.00
45	S	2-Fluorobiphenyl	80.000	75.275	5.9	101	0.00
46		1,1'-Biphenyl	40.000	37.700	5.7	102	0.00
47		2-Chloronaphthalene	40.000	37.518	6.2	101	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080123\
Data File : BF134547.D
Acq On : 01 Aug 2023 14:27
Operator : CG\JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Aug 02 02:43:05 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 02 02:20:34 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
48		2-Nitroaniline	40.000	40.378	-0.9	109	0.00
49		Acenaphthylene	40.000	37.524	6.2	101	0.00
50		Dimethylphthalate	40.000	38.014	5.0	103	0.00
51		2,6-Dinitrotoluene	40.000	40.431	-1.1	108	0.00
52	C	Acenaphthene	40.000	38.053	4.9	103	0.00
53		3-Nitroaniline	40.000	43.533	-8.8	105	0.00
54	P	2,4-Dinitrophenol	40.000	41.901	-4.8	125	0.00
55		Dibenzofuran	40.000	37.424	6.4	99	0.00
56	P	4-Nitrophenol	40.000	40.307	-0.8	105	0.00
57		2,4-Dinitrotoluene	40.000	41.370	-3.4	110	0.00
58		Fluorene	40.000	36.332	9.2	101	0.00
59		2,3,4,6-Tetrachlorophenol	40.000	39.257	1.9	102	0.00
60		Diethylphthalate	40.000	38.377	4.1	102	0.00
61		4-Chlorophenyl-phenylether	40.000	36.992	7.5	103	0.00
62		4-Nitroaniline	40.000	42.341	-5.9	103	0.00
63		Azobenzene	40.000	37.342	6.6	100	0.00
64	I	Phenanthrene-d10	20.000	20.000	0.0	108	0.00
65		4,6-Dinitro-2-methylphenol	40.000	39.641	0.9	117	0.00
66	c	n-Nitrosodiphenylamine	40.000	37.951	5.1	102	0.00
67		4-Bromophenyl-phenylether	40.000	38.449	3.9	103	0.00
68		Hexachlorobenzene	40.000	37.857	5.4	100	0.00
69		Atrazine	40.000	39.579	1.1	107	0.00
70	C	Pentachlorophenol	40.000	42.417	-6.0	105	0.00
71		Phenanthrene	40.000	37.476	6.3	100	0.00
72		Anthracene	40.000	37.016	7.5	99	0.00
73		Carbazole	40.000	36.990	7.5	99	0.00
74		Di-n-butylphthalate	40.000	39.313	1.7	103	0.00
75	C	Fluoranthene	40.000	36.989	7.5	97	0.00
76	I	Chrysene-d12	20.000	20.000	0.0	102	0.00
77		Benzidine	40.000	43.482	-8.7	100	0.00
78		Pyrene	40.000	38.655	3.4	98	0.00
79	S	Terphenyl-d14	80.000	76.921	3.8	98	0.00
80		Butylbenzylphthalate	40.000	42.714	-6.8	102	0.00
81		Benzo(a)anthracene	40.000	38.738	3.2	98	0.00
82		3,3'-Dichlorobenzidine	40.000	39.254	1.9	100	0.00
83		Chrysene	40.000	38.435	3.9	98	0.00
84		Bis(2-ethylhexyl)phthalate	40.000	41.571	-3.9	101	0.00
85	c	Di-n-octyl phthalate	40.000	41.835	-4.6	102	0.00
86	I	Perylene-d12	20.000	20.000	0.0	103	0.00
87		Indeno(1,2,3-cd)pyrene	40.000	39.587	1.0	95	0.00
88		Benzo(b)fluoranthene	40.000	38.414	4.0	99	0.00
89		Benzo(k)fluoranthene	40.000	39.336	1.7	95	0.00
90	C	Benzo(a)pyrene	40.000	38.721	3.2	96	0.00
91		Dibenzo(a,h)anthracene	40.000	40.459	-1.1	97	0.00
92		Benzo(g,h,i)perylene	40.000	39.729	0.7	95	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080123\
Data File : BF134547.D
Acq On : 01 Aug 2023 14:27
Operator : CG\JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Aug 02 02:43:05 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 02 02:20:34 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)

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

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM Case No.: O3645 SAS No.: O3645 SDG No.: O3645

Instrument ID: BNA_G Calibration Date/Time: 08/02/2023 08:34

Lab File ID: BG058569.D Init. Calib. Date(s): 07/28/2023 07/28/2023

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 09:21 14:09

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.309	1.312		0.2	
Benzaldehyde	0.989	0.906		-8.4	
Phenol-d6	1.821	1.850		1.6	
Phenol	1.779	1.803		1.3	20.0
bis(2-Chloroethyl)ether	1.402	1.449		3.4	
2-Chlorophenol	1.284	1.306		1.7	
2-Methylphenol	1.300	1.303		0.2	
2,2-oxybis(1-Chloropropane)	2.278	2.289		0.5	
Acetophenone	0.536	0.527		-1.7	
3+4-Methylphenols	1.759	1.842		4.7	
n-Nitroso-di-n-propylamine	1.176	1.200	0.050	2.0	
Nitrobenzene-d5	0.407	0.396		-2.7	
Hexachloroethane	0.500	0.492		-1.6	
Nitrobenzene	0.414	0.399		-3.6	
Isophorone	0.841	0.816		-3.0	
2-Nitrophenol	0.180	0.173		-3.9	20.0
2,4-Dimethylphenol	0.299	0.296		-1.0	
bis(2-Chloroethoxy)methane	0.458	0.449		-2.0	
2,4-Dichlorophenol	0.310	0.301		-2.9	20.0
Naphthalene	1.054	1.016		-3.6	
4-Chloroaniline	0.445	0.453		1.8	
Hexachlorobutadiene	0.230	0.216		-6.1	20.0
Caprolactam	0.115	0.125		8.7	
4-Chloro-3-methylphenol	0.384	0.371		-3.4	20.0
2-Methylnaphthalene	0.754	0.721		-4.4	
Hexachlorocyclopentadiene	0.236	0.213	0.050	-9.7	
2,4,6-Trichlorophenol	0.422	0.402		-4.7	20.0
2-Fluorobiphenyl	1.335	1.270		-4.9	
2,4,5-Trichlorophenol	0.497	0.470		-5.4	
1,1-Biphenyl	1.374	1.304		-5.1	
2-Chloronaphthalene	1.071	1.014		-5.3	
2-Nitroaniline	0.409	0.407		-0.5	
Dimethylphthalate	1.502	1.489		-0.9	
Acenaphthylene	1.793	1.719		-4.1	
2,6-Dinitrotoluene	0.330	0.326		-1.2	
3-Nitroaniline	0.330	0.355		7.6	
Acenaphthene	1.036	0.997		-3.8	20.0
2,4-Dinitrophenol	0.150	0.171	0.050	14.0	
4-Nitrophenol	0.222	0.260	0.050	17.1	
Dibenzofuran	1.780	1.720		-3.4	
2,4-Dinitrotoluene	0.457	0.484		5.9	

Form VII SV-1

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM Case No.: O3645 SAS No.: O3645 SDG No.: O3645

Instrument ID: BNA_G Calibration Date/Time: 08/02/2023 08:34

Lab File ID: BG058569.D Init. Calib. Date(s): 07/28/2023 07/28/2023

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 09:21 14:09

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Diethylphthalate	1.530	1.606		5.0	
4-Chlorophenyl-phenylether	0.788	0.761		-3.4	
Fluorene	1.414	1.385		-2.1	
4-Nitroaniline	0.312	0.381		22.1	
4,6-Dinitro-2-methylphenol	0.110	0.115		4.5	
n-Nitrosodiphenylamine	0.521	0.476		-8.6	20.0
2,4,6-Tribromophenol	0.328	0.327		-0.3	
4-Bromophenyl-phenylether	0.227	0.203		-10.6	
Hexachlorobenzene	0.240	0.214		-10.8	
Atrazine	0.176	0.185		5.1	
Pentachlorophenol	0.145	0.148		2.1	20.0
Phenanthrene	0.948	0.902		-4.9	
Anthracene	0.973	0.929		-4.5	
Carbazole	0.858	0.897		4.5	
Di-n-butylphthalate	1.075	1.187		10.4	
Fluoranthene	1.139	1.215		6.7	20.0
Pyrene	1.361	1.313		-3.5	
Terphenyl-d14	1.064	1.021		-4.0	
Butylbenzylphthalate	0.559	0.555		-0.7	
3,3-Dichlorobenzidine	0.465	0.475		2.2	
Benzo(a)anthracene	1.376	1.326		-3.6	
Chrysene	1.320	1.268		-3.9	
Bis(2-ethylhexyl)phthalate	0.817	0.810		-0.9	
Di-n-octyl phthalate	1.436	1.438		0.1	20.0
Benzo(b)fluoranthene	1.085	1.055		-2.8	
Benzo(k)fluoranthene	1.090	1.068		-2.0	
Benzo(a)pyrene	1.065	1.043		-2.1	20.0
Indeno(1,2,3-cd)pyrene	1.331	1.286		-3.4	
Dibenzo(a,h)anthracene	1.100	1.065		-3.2	
Benzo(g,h,i)perylene	1.103	1.070		-3.0	
1,2,4,5-Tetrachlorobenzene	0.614	0.577		-6.0	
1,4-Dioxane	0.634	0.617		-2.7	20.0
2,3,4,6-Tetrachlorophenol	0.424	0.411		-3.1	

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG080223\
Data File : BG058569.D
Acq On : 2 Aug 2023 8:34
Operator : MA/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Quant Time: Aug 02 09:07:57 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 28 22:29:07 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.814	152	39596	20.000	ng		0.00
21) Naphthalene-d8	10.616	136	168505	20.000	ng		0.00
39) Acenaphthene-d10	14.465	164	117751	20.000	ng		0.00
64) Phenanthrene-d10	17.209	188	312836	20.000	ng		0.00
76) Chrysene-d12	21.457	240	298102	20.000	ng		0.00
86) Perylene-d12	24.529	264	377370	20.000	ng		0.01
System Monitoring Compounds							
5) 2-Fluorophenol	5.387	112	207786	80.208	ng		0.00
7) Phenol-d6	6.991	99	293018	81.286	ng		0.00
23) Nitrobenzene-d5	8.983	82	266919	77.817	ng		0.00
42) 2,4,6-Tribromophenol	15.957	330	153994	79.789	ng		0.00
45) 2-Fluorobiphenyl	13.084	172	598032	76.110	ng		0.00
79) Terphenyl-d14	19.829	244	1217990	76.835	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.272	88	48876	38.935	ng		99
3) Pyridine	3.666	79	136868	39.991	ng		97
4) n-Nitrosodimethylamine	3.589	42	57109	39.383	ng		99
6) Aniline	7.144	93	183137	41.264	ng		100
8) 2-Chlorophenol	7.379	128	103394	40.683	ng		98
9) Benzaldehyde	6.956	77	71776	36.649	ng		97
10) Phenol	7.015	94	142803	40.554	ng		97
11) bis(2-Chloroethyl)ether	7.238	93	114717	41.324	ng		98
12) 1,3-Dichlorobenzene	7.702	146	106153	39.116	ng		98
13) 1,4-Dichlorobenzene	7.849	146	107266	39.366	ng		94
14) 1,2-Dichlorobenzene	8.166	146	103597	39.766	ng		99
15) Benzyl Alcohol	8.055	79	97870	42.812	ng		99
16) 2,2'-oxybis(1-Chloropr...	8.343	45	181299	40.205	ng		99
17) 2-Methylphenol	8.266	107	103186	40.077	ng		98
18) Hexachloroethane	8.895	117	39001	39.379	ng		93
19) n-Nitroso-di-n-propyla...	8.619	70	95011	40.805	ng		98
20) 3+4-Methylphenols	8.595	107	145841	41.876	ng		98
22) Acetophenone	8.636	105	177466	39.333	ng	#	98
24) Nitrobenzene	9.024	77	134343	38.525	ng		97
25) Isophorone	9.541	82	275042	38.808	ng		99
26) 2-Nitrophenol	9.735	139	58471	38.520	ng		95
27) 2,4-Dimethylphenol	9.794	122	99853	39.658	ng		97
28) bis(2-Chloroethoxy)met...	10.029	93	151286	39.225	ng		99
29) 2,4-Dichlorophenol	10.270	162	101280	38.741	ng		98
30) 1,2,4-Trichlorobenzene	10.481	180	116728	38.717	ng		98
31) Naphthalene	10.669	128	342457	38.560	ng		99
32) Benzoic acid	9.941	122	70155	37.591	ng		98
33) 4-Chloroaniline	10.781	127	152612	40.671	ng		98
34) Hexachlorobutadiene	10.945	225	72896	37.544	ng		97
35) Caprolactam	11.556	113	42280	43.796	ng		92
36) 4-Chloro-3-methylphenol	11.915	107	125079	38.677	ng		99
37) 2-Methylnaphthalene	12.279	142	242924	38.239	ng		99
38) 1-Methylnaphthalene	12.502	142	231936	38.407	ng		98
40) 1,2,4,5-Tetrachloroben...	12.655	216	135803	37.566	ng		99
41) Hexachlorocyclopentadiene	12.626	237	50057	34.086	ng		96
43) 2,4,6-Trichlorophenol	12.896	196	94628	38.057	ng		96

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG080223\
Data File : BG058569.D
Acq On : 2 Aug 2023 8:34
Operator : MA/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Quant Time: Aug 02 09:07:57 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 28 22:29:07 2023
Response via : Initial Calibration

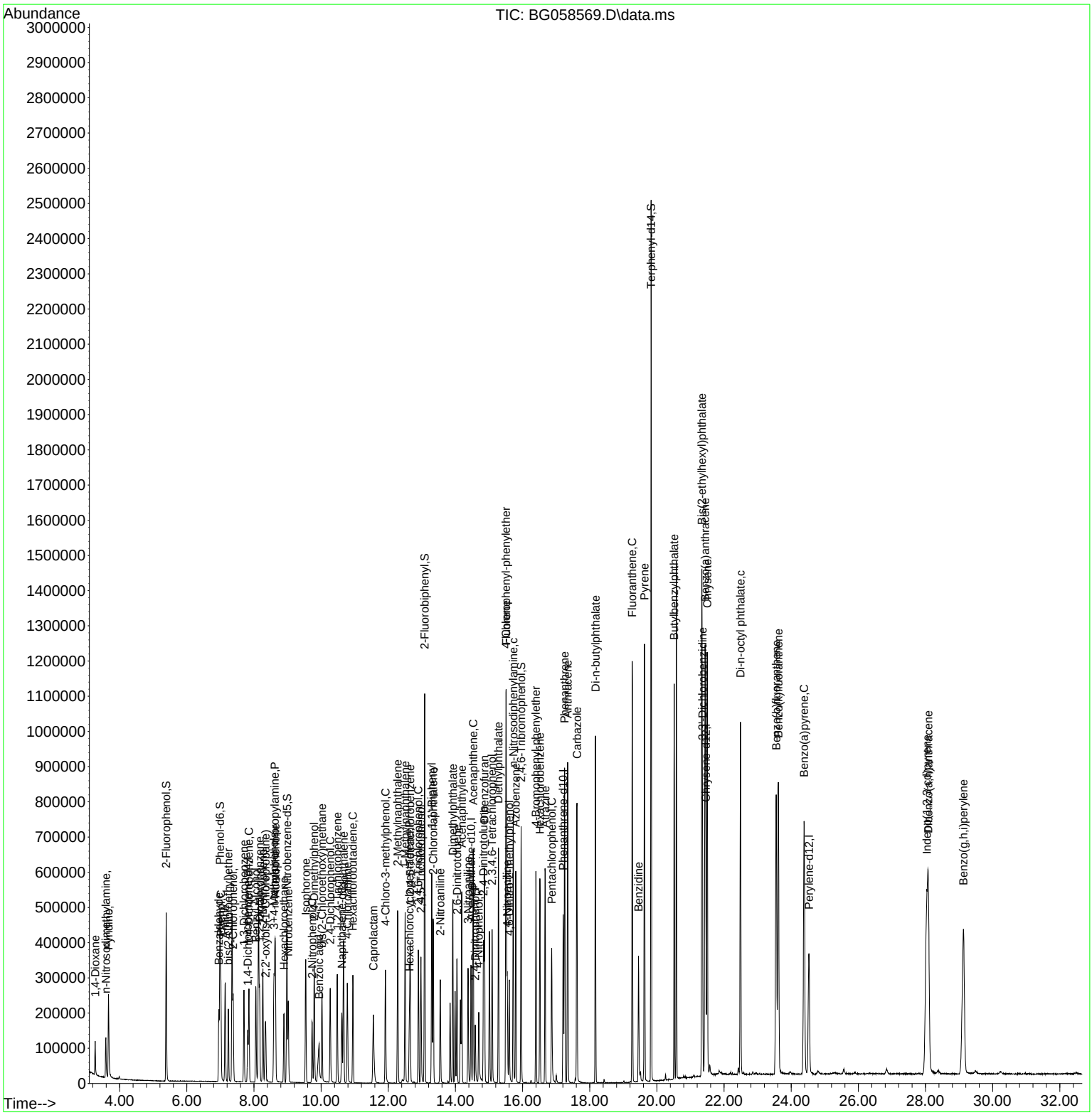
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.972	196	110594	37.762	ng	98
46) 1,1'-Biphenyl	13.296	154	307161	37.984	ng	99
47) 2-Chloronaphthalene	13.337	162	238716	37.861	ng	99
48) 2-Nitroaniline	13.548	65	95754	39.788	ng	98
49) Acenaphthylene	14.189	152	404934	38.360	ng	99
50) Dimethylphthalate	13.924	163	350648	39.651	ng	99
51) 2,6-Dinitrotoluene	14.048	165	76784	39.571	ng	99
52) Acenaphthene	14.529	154	234797	38.494	ng	99
53) 3-Nitroaniline	14.377	138	83657	43.092	ng	99
54) 2,4-Dinitrophenol	14.588	184	40316	40.894	ng	95
55) Dibenzofuran	14.864	168	405061	38.647	ng	100
56) 4-Nitrophenol	14.694	139	61172	44.081	ng	98
57) 2,4-Dinitrotoluene	14.835	165	114051	42.396	ng	93
58) Fluorene	15.511	166	326199	39.177	ng	99
59) 2,3,4,6-Tetrachlorophenol	15.093	232	96734	38.707	ng	99
60) Diethylphthalate	15.281	149	378266	41.987	ng	99
61) 4-Chlorophenyl-phenyle...	15.505	204	179282	38.622	ng	99
62) 4-Nitroaniline	15.540	138	89643	48.744	ng	96
63) Azobenzene	15.799	77	354130	39.908	ng	99
65) 4,6-Dinitro-2-methylph...	15.605	198	72155	41.830	ng	98
66) n-Nitrosodiphenylamine	15.722	169	297828	36.578	ng	98
67) 4-Bromophenyl-phenylether	16.398	248	126728	35.716	ng	96
68) Hexachlorobenzene	16.515	284	133715	35.563	ng	98
69) Atrazine	16.674	200	115486	42.016	ng	99
70) Pentachlorophenol	16.868	266	92801	40.778	ng	98
71) Phenanthrene	17.250	178	564366	38.040	ng	99
72) Anthracene	17.344	178	581313	38.187	ng	99
73) Carbazole	17.620	167	561088	41.797	ng	100
74) Di-n-butylphthalate	18.172	149	742597	44.165	ng	100
75) Fluoranthene	19.265	202	760103	42.651	ng	99
77) Benzidine	19.453	184	251279	55.587	ng	98
78) Pyrene	19.629	202	782752	38.583	ng	98
80) Butylbenzylphthalate	20.517	149	330846	39.702	ng	99
81) Benzo(a)anthracene	21.433	228	790813	38.548	ng	99
82) 3,3'-Dichlorobenzidine	21.357	252	283204	40.829	ng	99
83) Chrysene	21.498	228	756190	38.444	ng	98
84) Bis(2-ethylhexyl)phtha...	21.339	149	482947	39.658	ng	99
85) Di-n-octyl phthalate	22.491	149	857091	40.033	ng	100
87) Indeno(1,2,3-cd)pyrene	28.037	276	970462	38.656	ng	99
88) Benzo(b)fluoranthene	23.554	252	796434	38.912	ng	100
89) Benzo(k)fluoranthene	23.619	252	805706	39.185	ng	100
90) Benzo(a)pyrene	24.383	252	787408	39.173	ng	98
91) Dibenzo(a,h)anthracene	28.084	278	803621	38.713	ng	100
92) Benzo(g,h,i)perylene	29.130	276	807782	38.806	ng	97

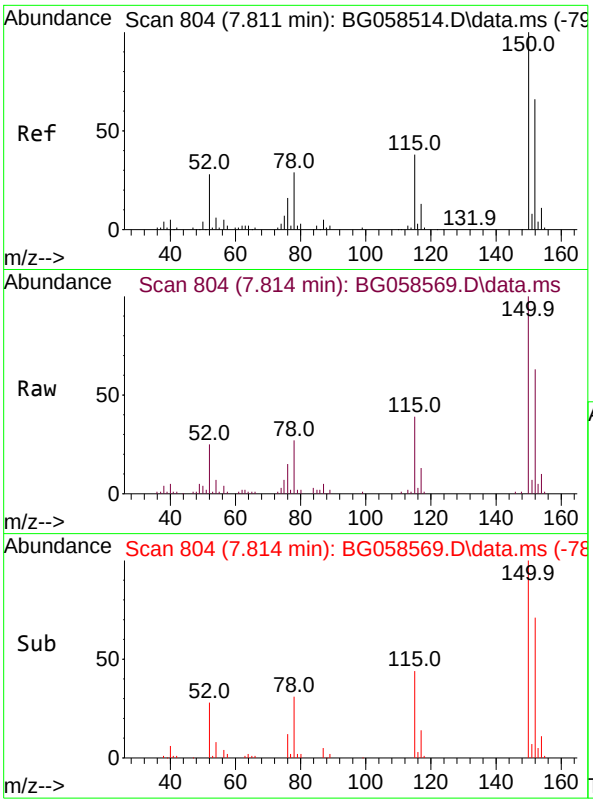
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG080223\
Data File : BG058569.D
Acq On : 2 Aug 2023 8:34
Operator : MA/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Quant Time: Aug 02 09:07:57 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 28 22:29:07 2023
Response via : Initial Calibration



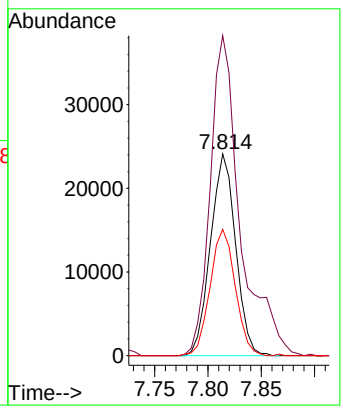


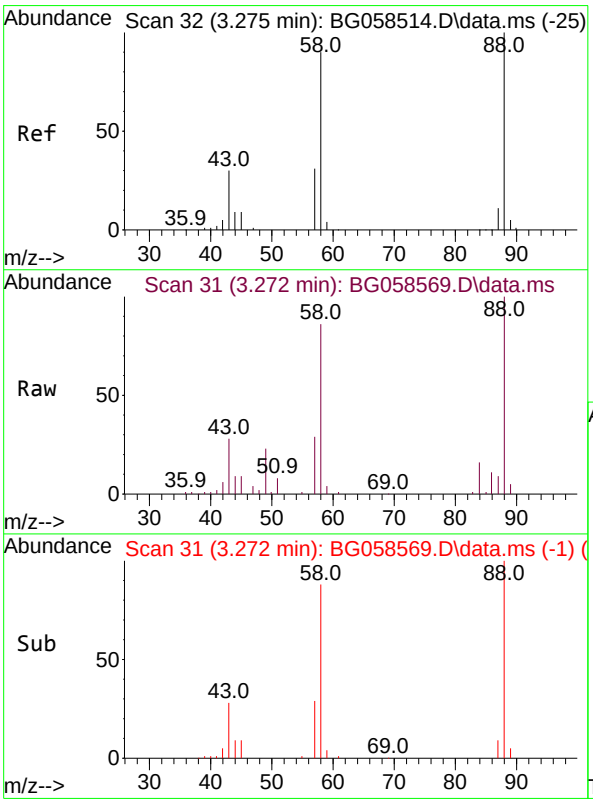
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.814 min Scan# 80
Delta R.T. 0.003 min
Lab File: BG058569.D
Acq: 2 Aug 2023 8:34

Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Tgt Ion:152 Resp: 39596

Ion	Ratio	Lower	Upper
152	100		
150	158.6	120.5	180.7
115	62.6	45.9	68.9

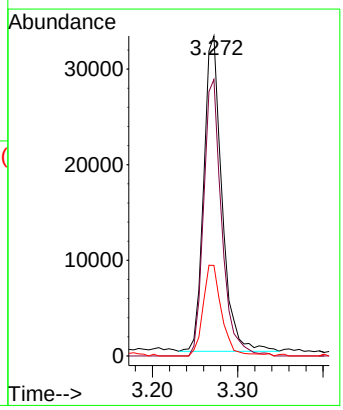


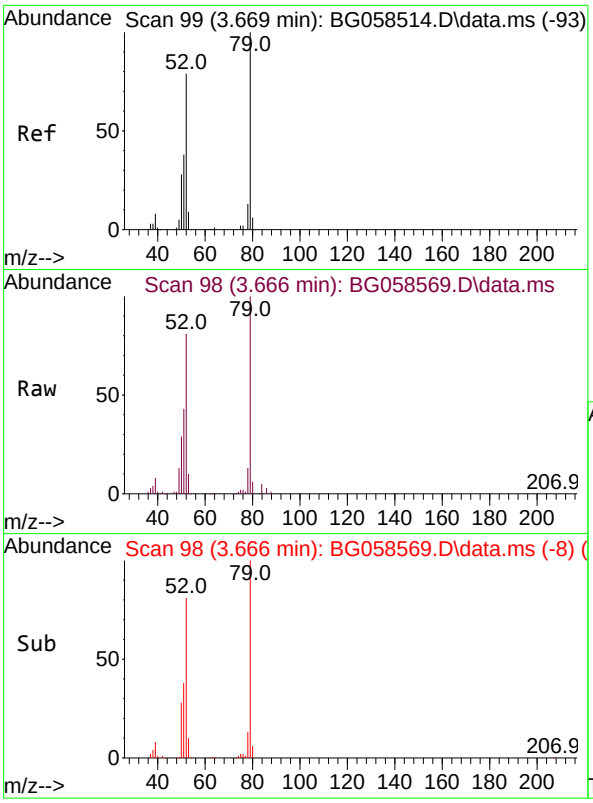


#2
1,4-Dioxane
Concen: 38.935 ng
RT: 3.272 min Scan# 31
Delta R.T. -0.003 min
Lab File: BG058569.D
Acq: 2 Aug 2023 8:34

Tgt Ion: 88 Resp: 48876

Ion	Ratio	Lower	Upper
88	100		
58	86.7	68.9	103.3
43	29.5	22.9	34.3



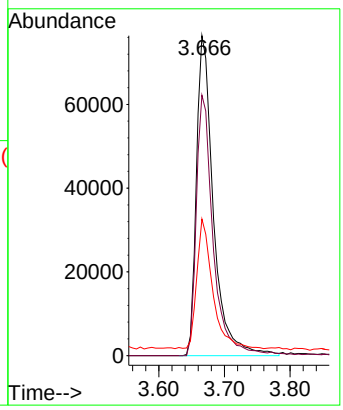


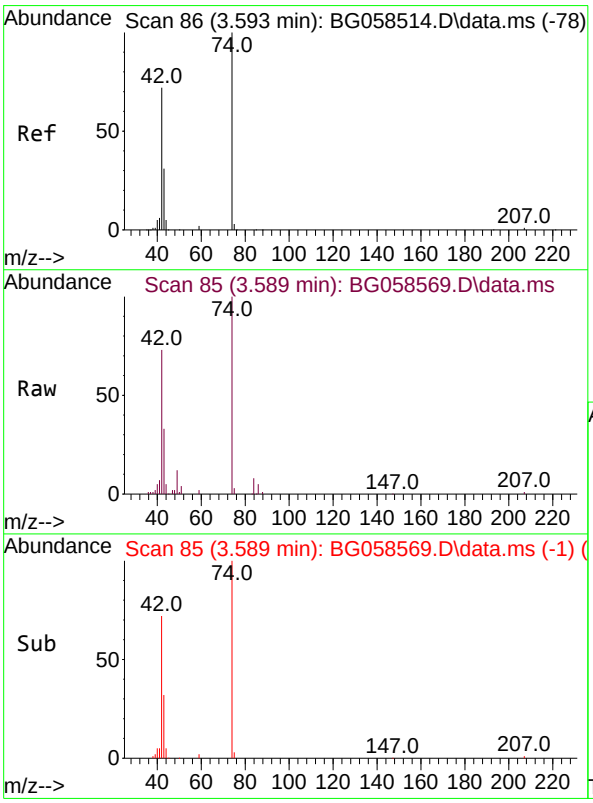
#3
Pyridine
Concen: 39.991 ng
RT: 3.666 min Scan# 9
Delta R.T. -0.003 min
Lab File: BG058569.D
Acq: 2 Aug 2023 8:34

Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Tgt Ion: 79 Resp: 136868

Ion	Ratio	Lower	Upper
79	100		
52	81.4	63.2	94.8
51	42.7	31.9	47.9

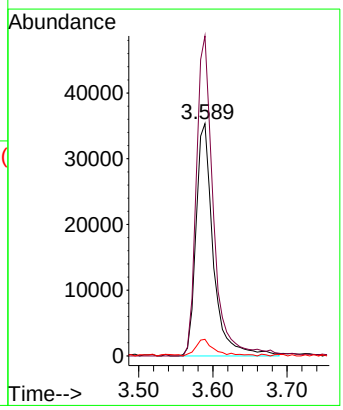


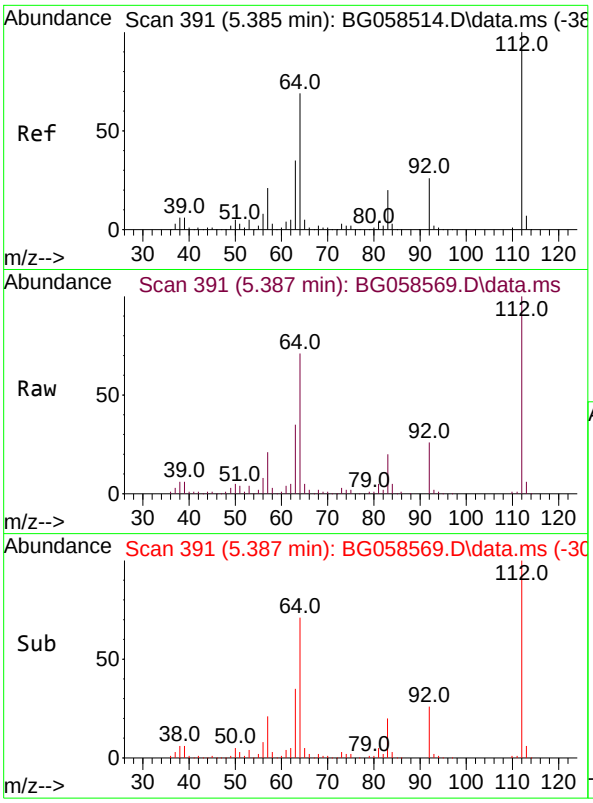


#4
n-Nitrosodimethylamine
Concen: 39.383 ng
RT: 3.589 min Scan# 85
Delta R.T. -0.003 min
Lab File: BG058569.D
Acq: 2 Aug 2023 8:34

Tgt Ion: 42 Resp: 57109

Ion	Ratio	Lower	Upper
42	100		
74	137.7	111.5	167.3
44	7.1	5.4	8.2



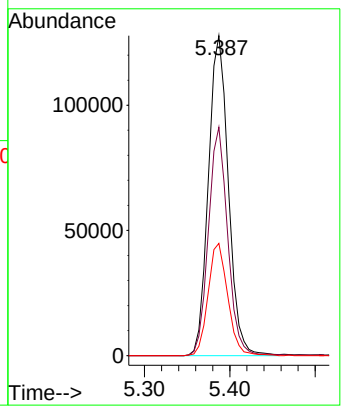


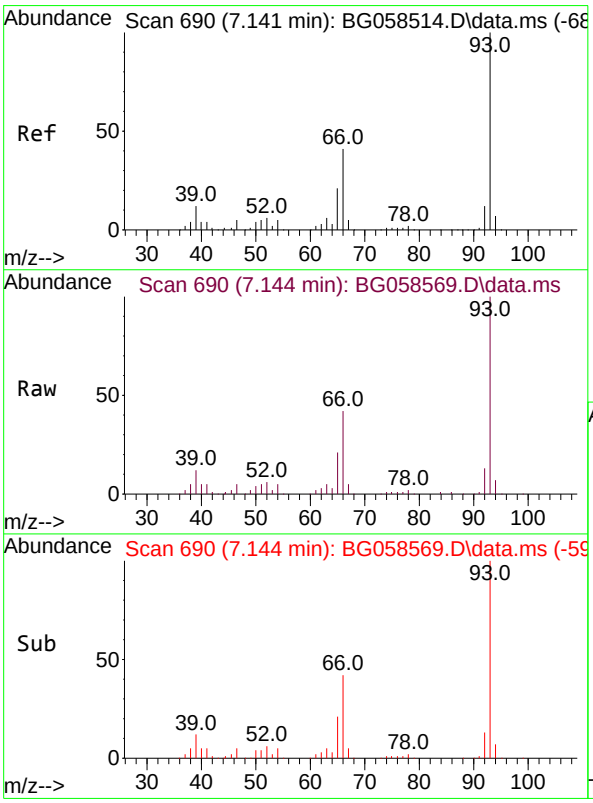
#5
2-Fluorophenol
Concen: 80.208 ng
RT: 5.387 min Scan# 39
Delta R.T. 0.003 min
Lab File: BG058569.D
Acq: 2 Aug 2023 8:34

Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Tgt Ion:112 Resp: 207786

Ion	Ratio	Lower	Upper
112	100		
64	71.4	55.3	82.9
63	35.1	28.3	42.5

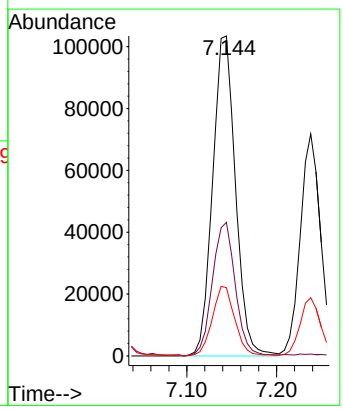


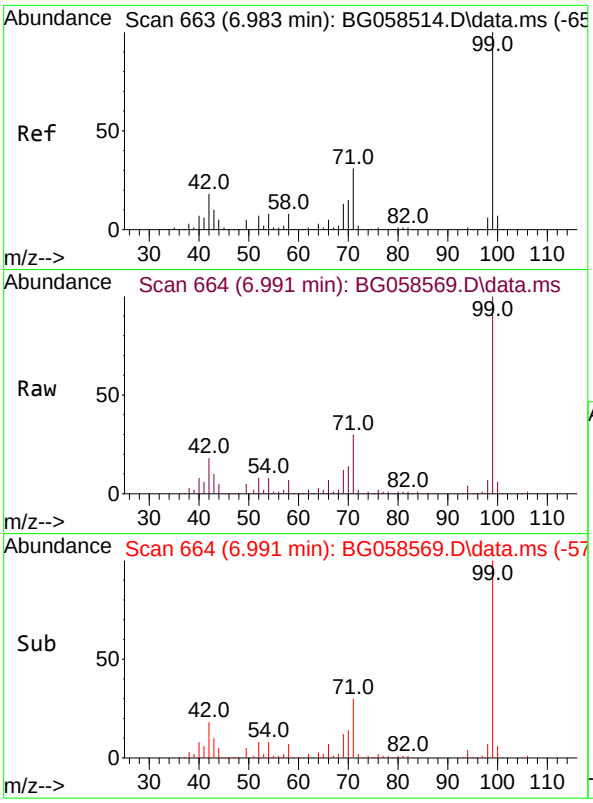


#6
Aniline
Concen: 41.264 ng
RT: 7.144 min Scan# 690
Delta R.T. 0.003 min
Lab File: BG058569.D
Acq: 2 Aug 2023 8:34

Tgt Ion: 93 Resp: 183137

Ion	Ratio	Lower	Upper
93	100		
66	41.7	33.1	49.7
65	21.3	17.0	25.4



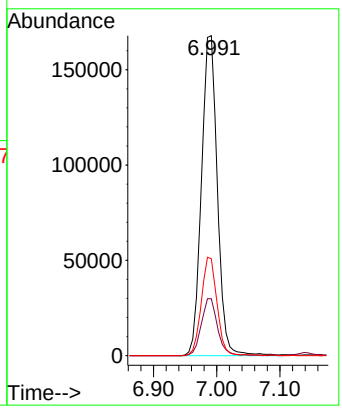


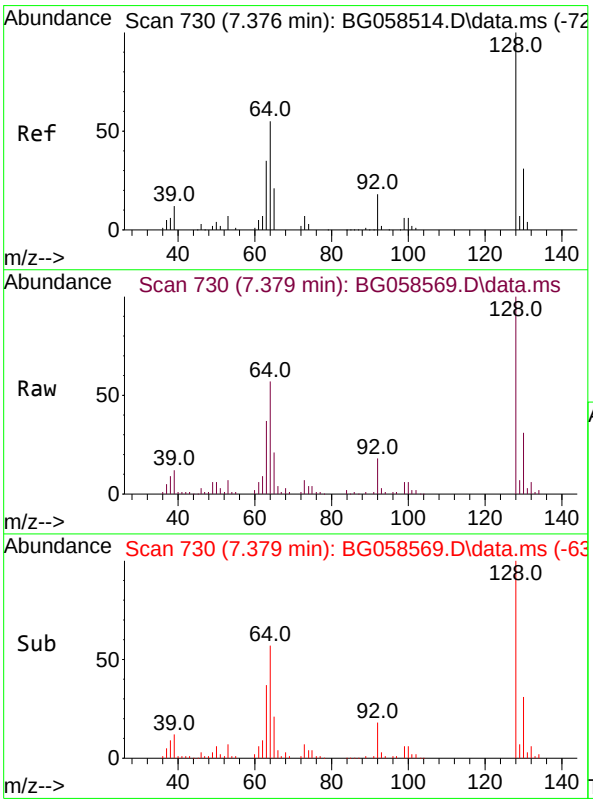
#7
Phenol-d6
Concen: 81.286 ng
RT: 6.991 min Scan# 6
Delta R.T. 0.008 min
Lab File: BG058569.D
Acq: 2 Aug 2023 8:34

Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Tgt Ion: 99 Resp: 293018

Ion	Ratio	Lower	Upper
99	100		
42	17.8	14.6	21.8
71	30.3	25.0	37.4

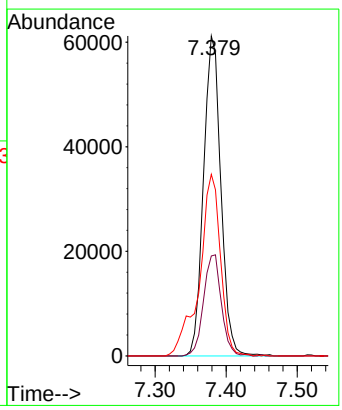


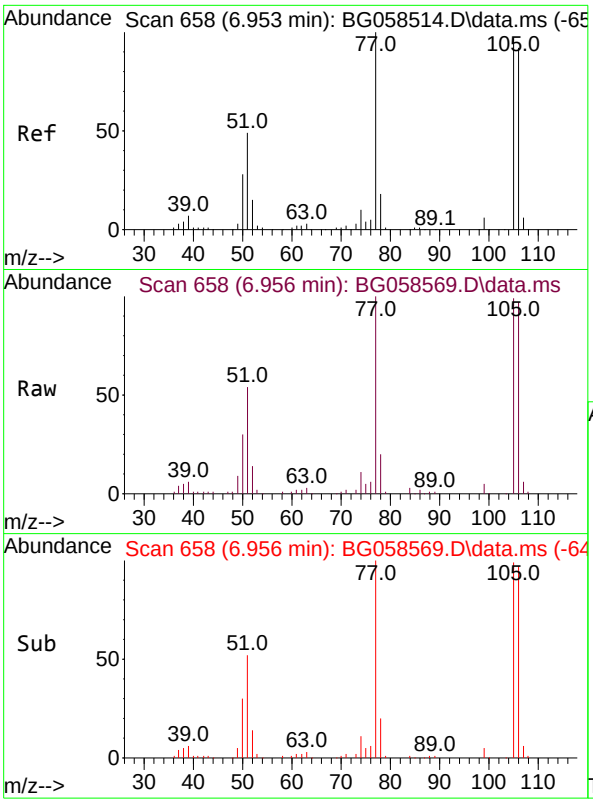


#8
2-Chlorophenol
Concen: 40.683 ng
RT: 7.379 min Scan# 730
Delta R.T. 0.003 min
Lab File: BG058569.D
Acq: 2 Aug 2023 8:34

Tgt Ion:128 Resp: 103394

Ion	Ratio	Lower	Upper
128	100		
130	31.2	10.9	50.9
64	56.7	39.0	79.0



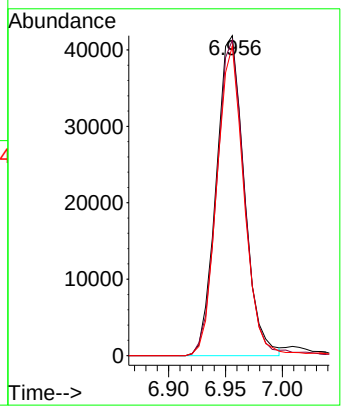


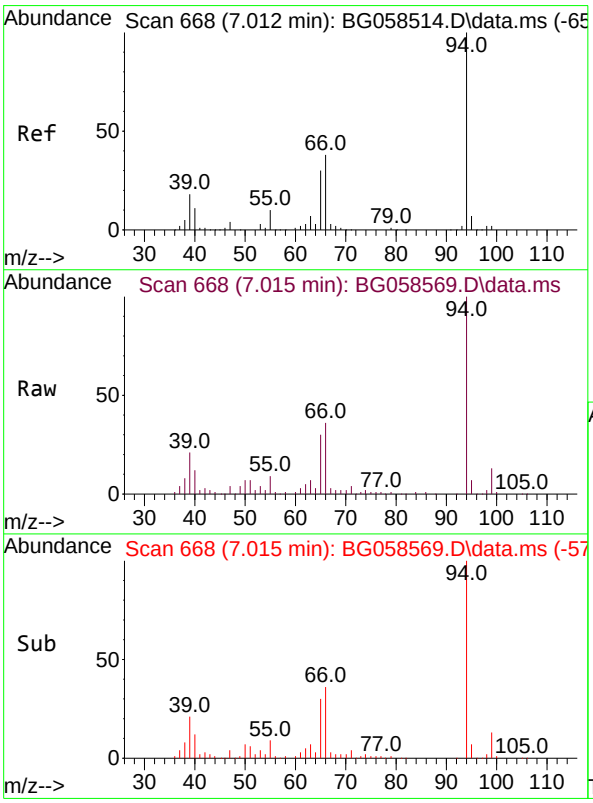
#9
Benzaldehyde
Concen: 36.649 ng
RT: 6.956 min Scan# 6
Delta R.T. 0.003 min
Lab File: BG058569.D
Acq: 2 Aug 2023 8:34

Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Tgt Ion: 77 Resp: 71776

Ion	Ratio	Lower	Upper
77	100		
105	98.6	77.1	117.1
106	96.8	71.6	111.6

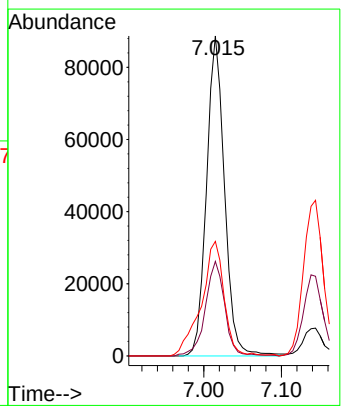


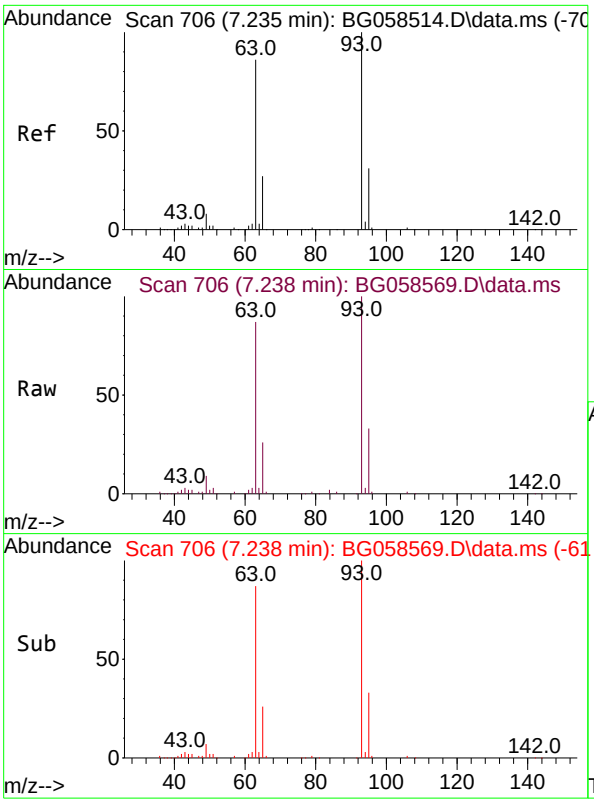


#10
Phenol
Concen: 40.554 ng
RT: 7.015 min Scan# 668
Delta R.T. 0.003 min
Lab File: BG058569.D
Acq: 2 Aug 2023 8:34

Tgt Ion: 94 Resp: 142803

Ion	Ratio	Lower	Upper
94	100		
65	29.5	10.4	50.4
66	35.8	18.7	58.7



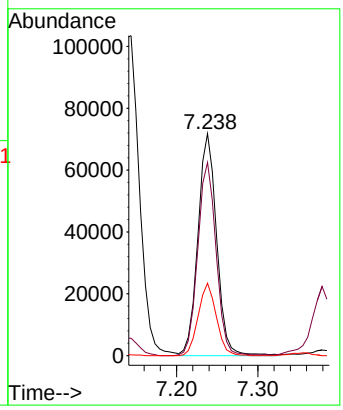


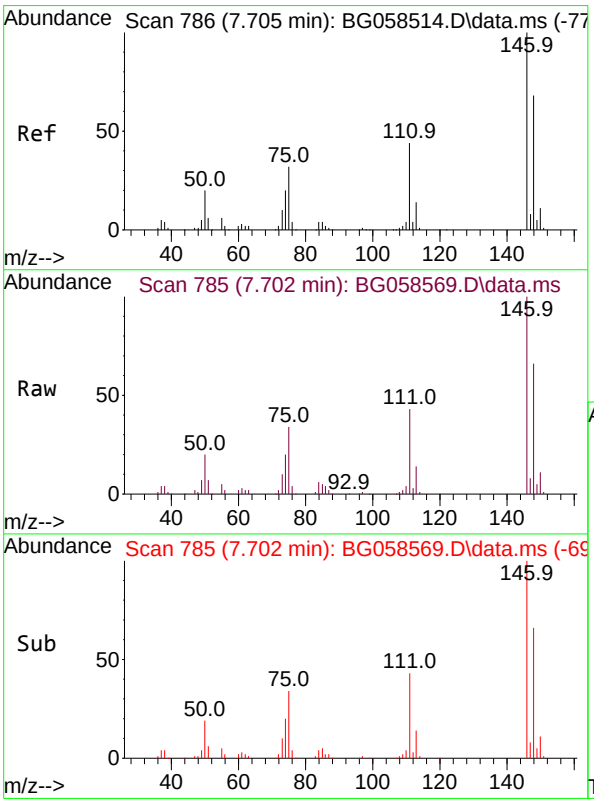
#11
bis(2-Chloroethyl)ether
Concen: 41.324 ng
RT: 7.238 min Scan# 70
Delta R.T. 0.003 min
Lab File: BG058569.D
Acq: 2 Aug 2023 8:34

Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Tgt Ion: 93 Resp: 114717

Ion	Ratio	Lower	Upper
93	100		
63	87.0	65.5	105.5
95	32.6	11.2	51.2

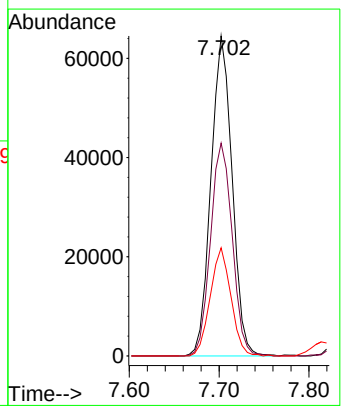


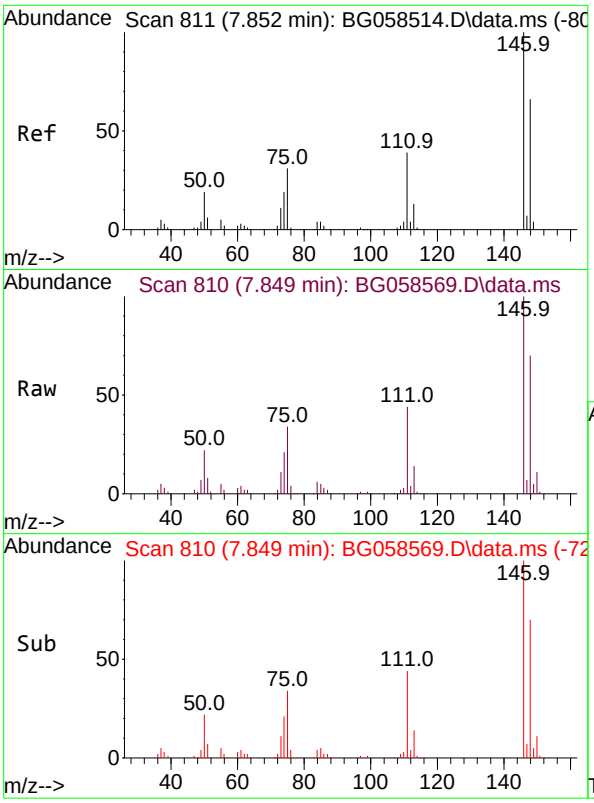


#12
1,3-Dichlorobenzene
Concen: 39.116 ng
RT: 7.702 min Scan# 785
Delta R.T. -0.003 min
Lab File: BG058569.D
Acq: 2 Aug 2023 8:34

Tgt Ion:146 Resp: 106153

Ion	Ratio	Lower	Upper
146	100		
148	66.5	54.7	82.1
75	33.8	25.8	38.8



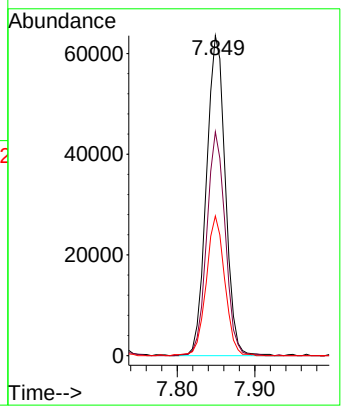


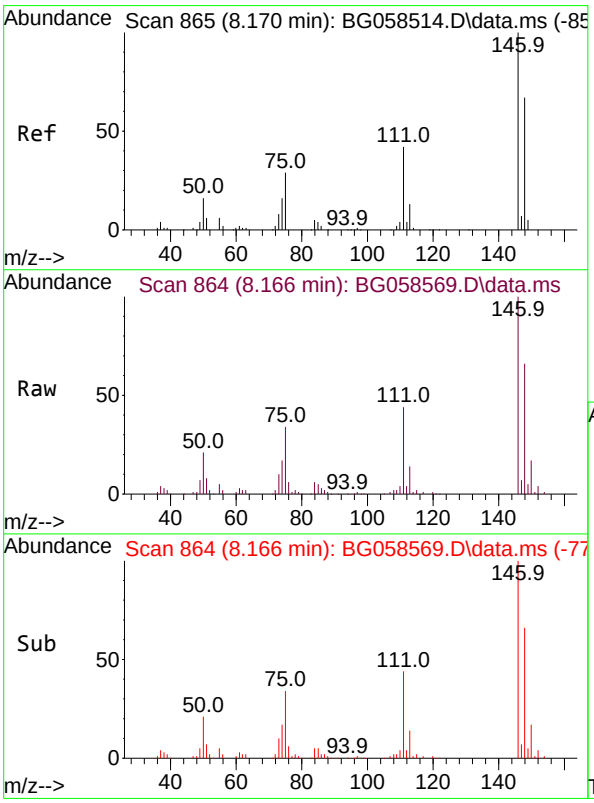
#13
1,4-Dichlorobenzene
Concen: 39.366 ng
RT: 7.849 min Scan# 81
Delta R.T. -0.003 min
Lab File: BG058569.D
Acq: 2 Aug 2023 8:34

Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Tgt Ion:146 Resp: 107266

Ion	Ratio	Lower	Upper
146	100		
148	69.9	52.8	79.2
111	43.6	31.7	47.5

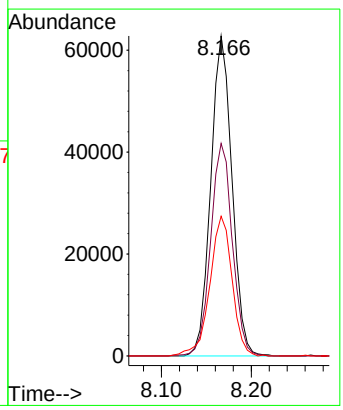


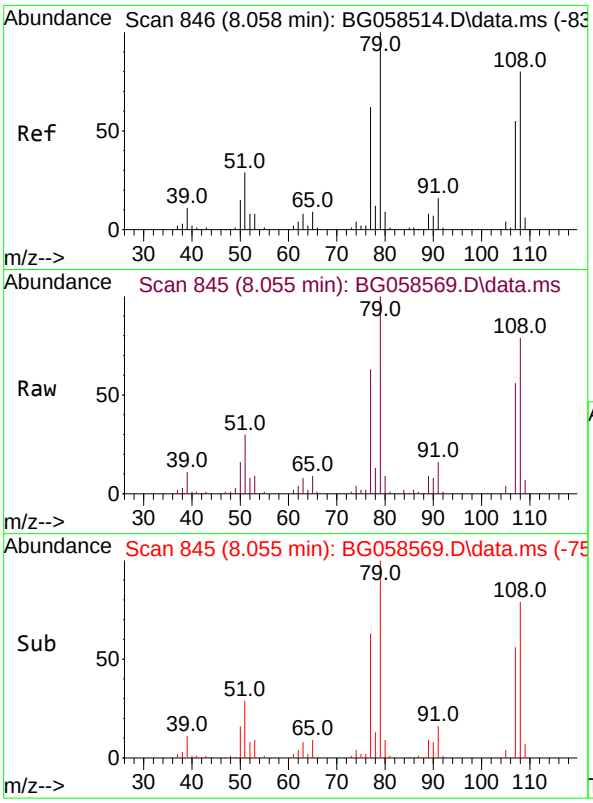


#14
1,2-Dichlorobenzene
Concen: 39.766 ng
RT: 8.166 min Scan# 864
Delta R.T. -0.003 min
Lab File: BG058569.D
Acq: 2 Aug 2023 8:34

Tgt Ion:146 Resp: 103597

Ion	Ratio	Lower	Upper
146	100		
148	66.4	53.4	80.2
111	43.6	34.2	51.2



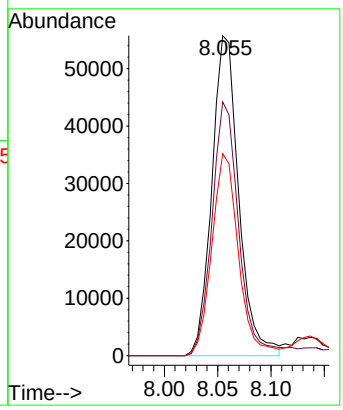


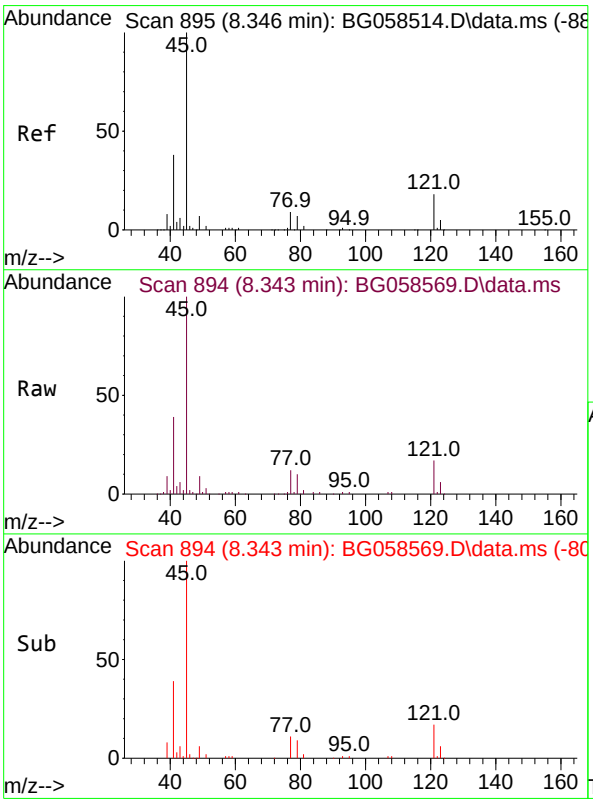
#15
Benzyl Alcohol
Concen: 42.812 ng
RT: 8.055 min Scan# 84
Delta R.T. -0.003 min
Lab File: BG058569.D
Acq: 2 Aug 2023 8:34

Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Tgt Ion: 79 Resp: 97870

Ion	Ratio	Lower	Upper
79	100		
108	79.3	63.8	95.6
77	63.1	49.8	74.6

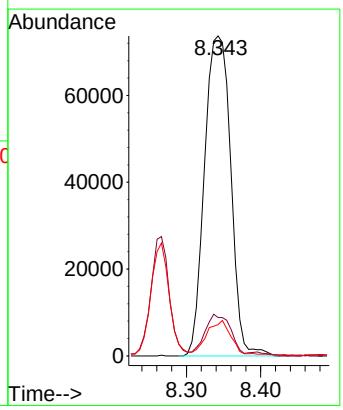


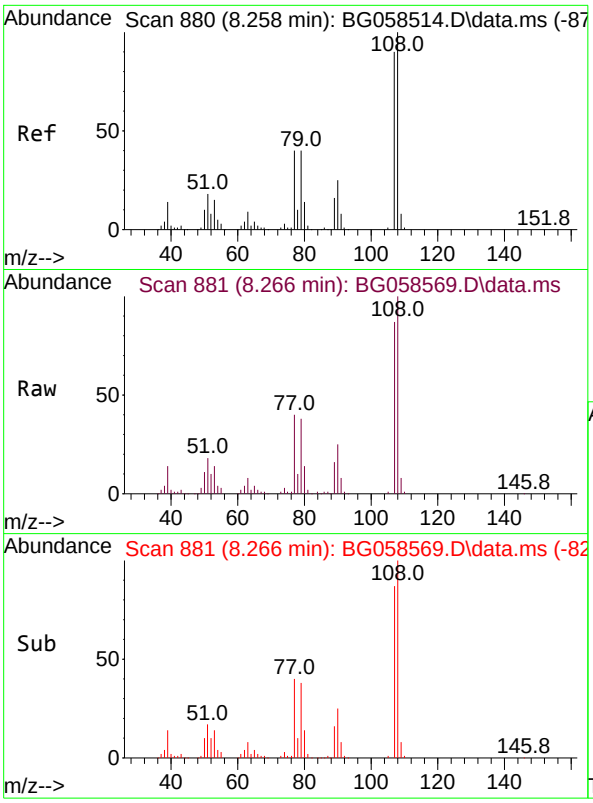


#16
2,2'-oxybis(1-Chloropropane)
Concen: 40.205 ng
RT: 8.343 min Scan# 894
Delta R.T. -0.003 min
Lab File: BG058569.D
Acq: 2 Aug 2023 8:34

Tgt Ion: 45 Resp: 181299

Ion	Ratio	Lower	Upper
45	100		
77	12.0	0.0	32.6
79	9.8	0.0	30.2



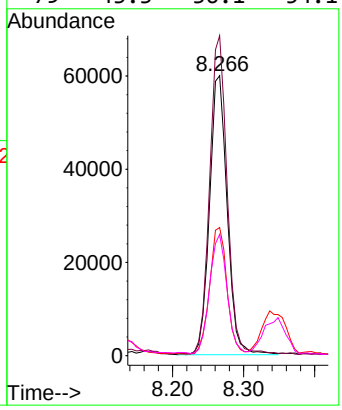


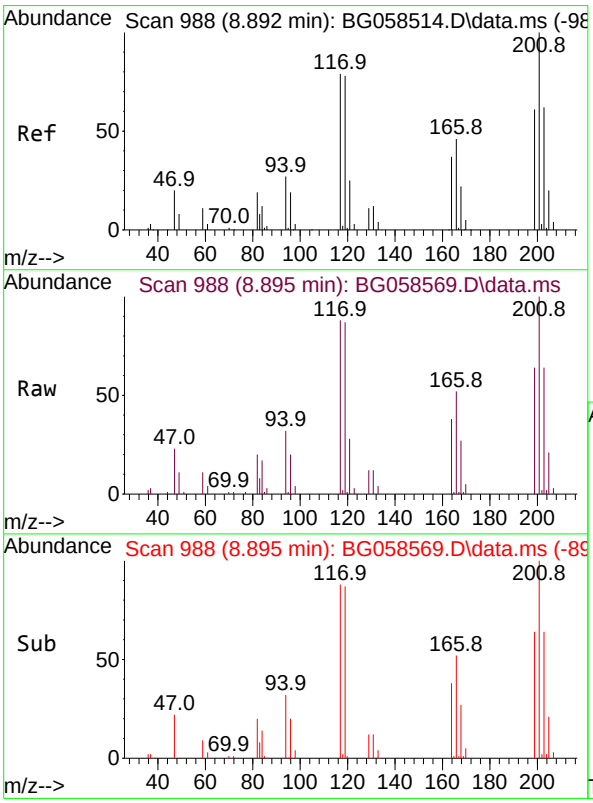
#17
2-Methylphenol
Concen: 40.077 ng
RT: 8.266 min Scan# 88
Delta R.T. 0.008 min
Lab File: BG058569.D
Acq: 2 Aug 2023 8:34

Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Tgt Ion:107 Resp: 103186

Ion	Ratio	Lower	Upper
107	100		
108	114.3	89.1	133.7
77	45.8	36.2	54.4
79	43.3	36.1	54.1

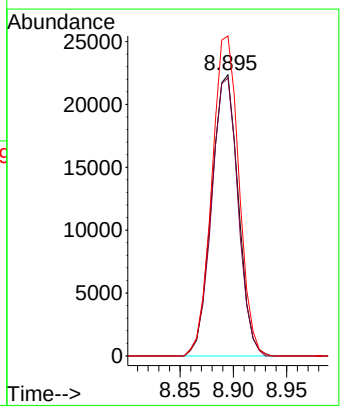


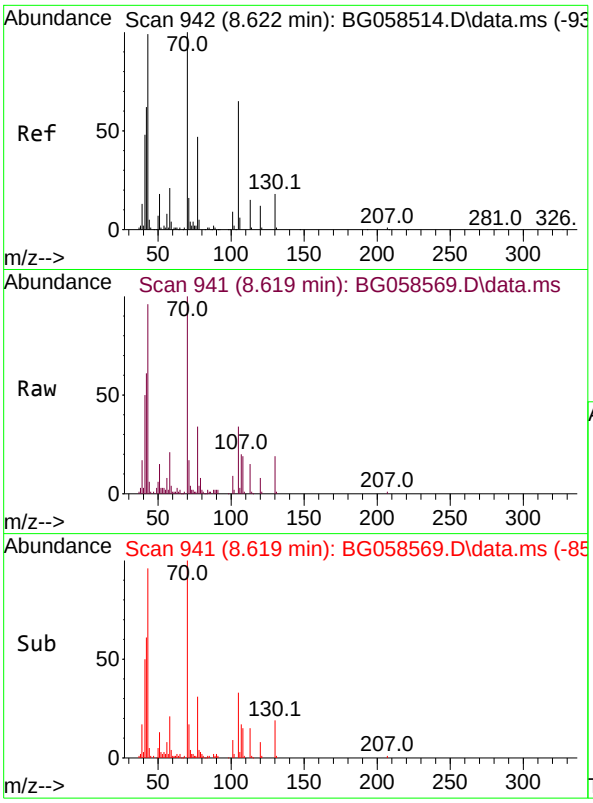


#18
Hexachloroethane
Concen: 39.379 ng
RT: 8.895 min Scan# 988
Delta R.T. 0.003 min
Lab File: BG058569.D
Acq: 2 Aug 2023 8:34

Tgt Ion:117 Resp: 39001

Ion	Ratio	Lower	Upper
117	100		
119	99.0	78.6	117.8
201	113.9	101.4	152.0



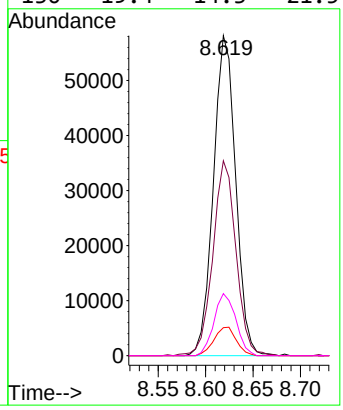


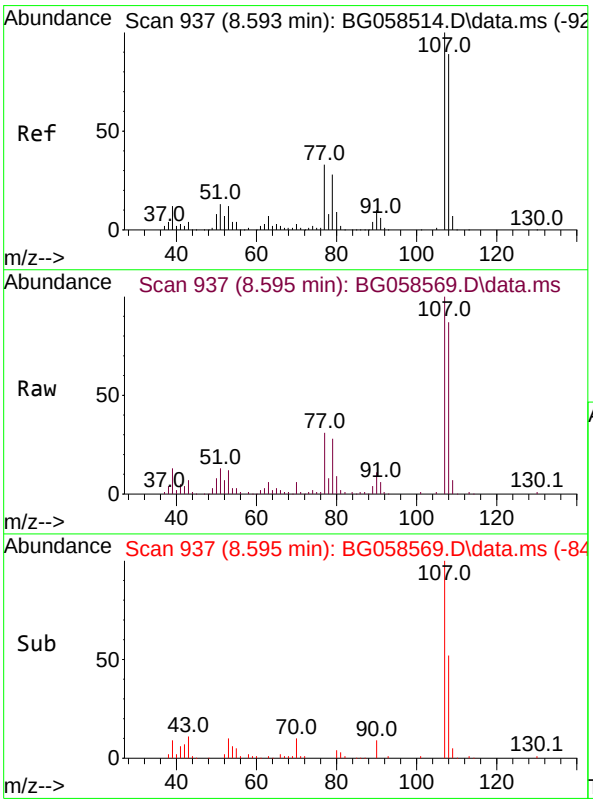
#19
n-Nitroso-di-n-propylamine
Concen: 40.805 ng
RT: 8.619 min Scan# 94
Delta R.T. -0.003 min
Lab File: BG058569.D
Acq: 2 Aug 2023 8:34

Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Tgt Ion: 70 Resp: 95011

Ion	Ratio	Lower	Upper
70	100		
42	60.9	49.7	74.5
101	8.7	7.0	10.4
130	19.4	14.3	21.5

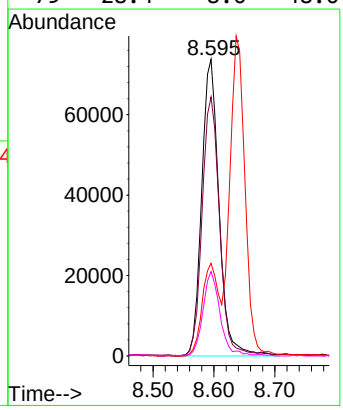


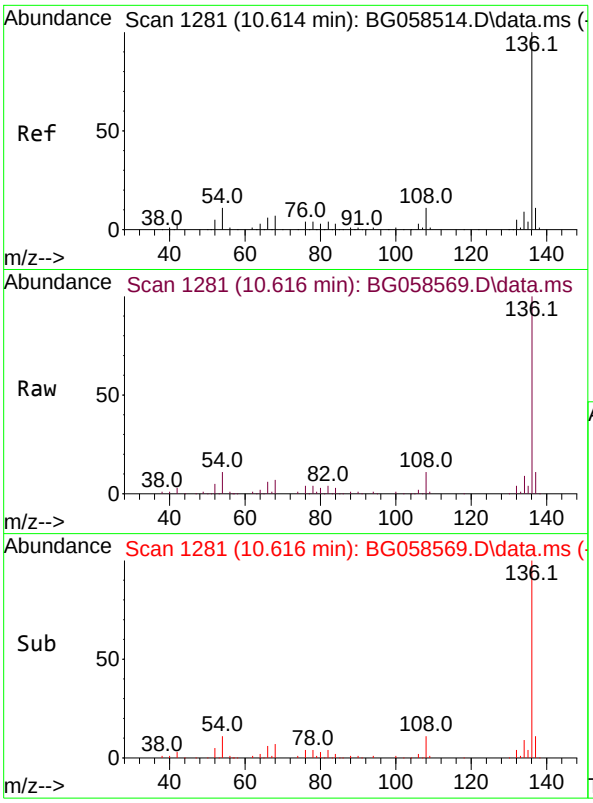


#20
3+4-Methylphenols
Concen: 41.876 ng
RT: 8.595 min Scan# 937
Delta R.T. 0.003 min
Lab File: BG058569.D
Acq: 2 Aug 2023 8:34

Tgt Ion:107 Resp: 145841

Ion	Ratio	Lower	Upper
107	100		
108	87.3	69.4	109.4
77	31.2	13.0	53.0
79	28.4	8.0	48.0



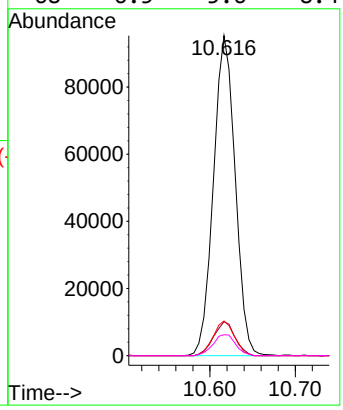


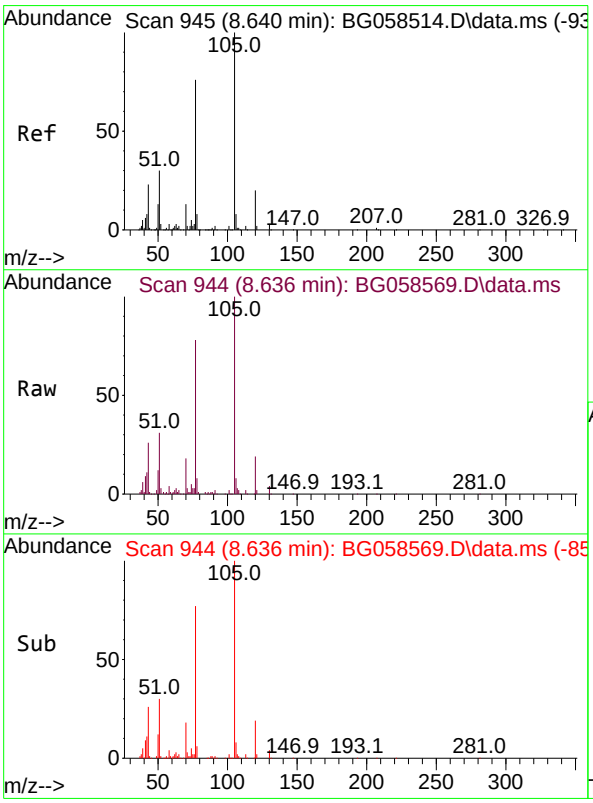
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.616 min Scan# 1
Delta R.T. 0.003 min
Lab File: BG058569.D
Acq: 2 Aug 2023 8:34

Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Tgt Ion:136 Resp: 168505

Ion	Ratio	Lower	Upper
136	100		
137	10.6	8.6	13.0
54	10.8	8.9	13.3
68	6.5	5.6	8.4

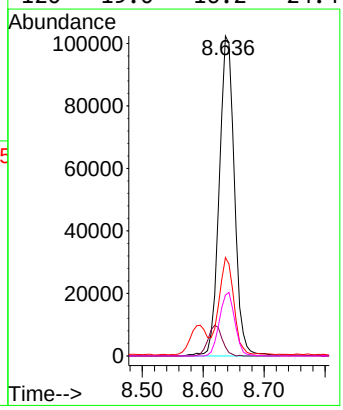


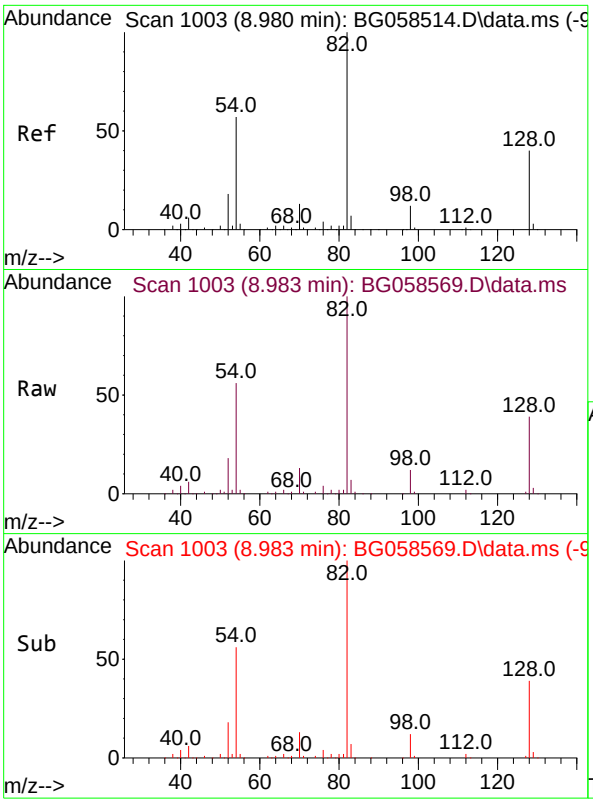


#22
Acetophenone
Concen: 39.333 ng
RT: 8.636 min Scan# 944
Delta R.T. -0.003 min
Lab File: BG058569.D
Acq: 2 Aug 2023 8:34

Tgt Ion:105 Resp: 177466

Ion	Ratio	Lower	Upper
105	100		
71	2.8	1.8	2.6#
51	30.7	24.2	36.2
120	19.0	16.2	24.4



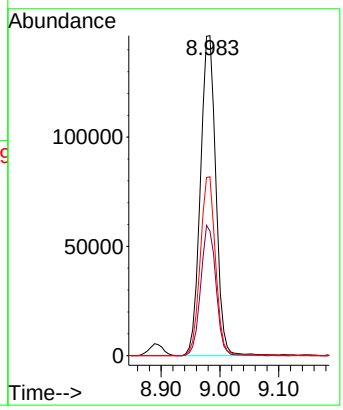


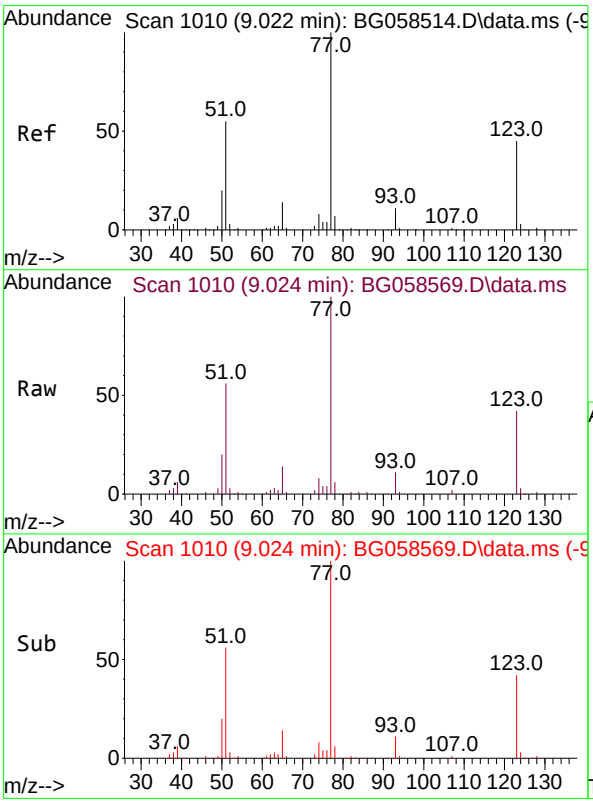
#23
Nitrobenzene-d5
Concen: 77.817 ng
RT: 8.983 min Scan# 10
Delta R.T. 0.003 min
Lab File: BG058569.D
Acq: 2 Aug 2023 8:34

Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Tgt Ion: 82 Resp: 266919

Ion	Ratio	Lower	Upper
82	100		
128	38.9	32.2	48.2
54	55.9	46.0	69.0

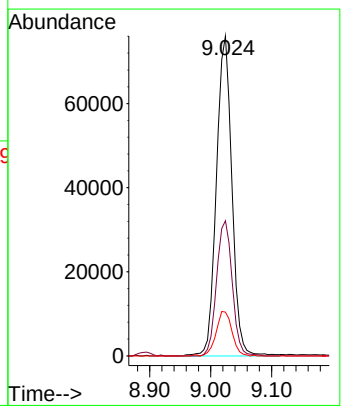


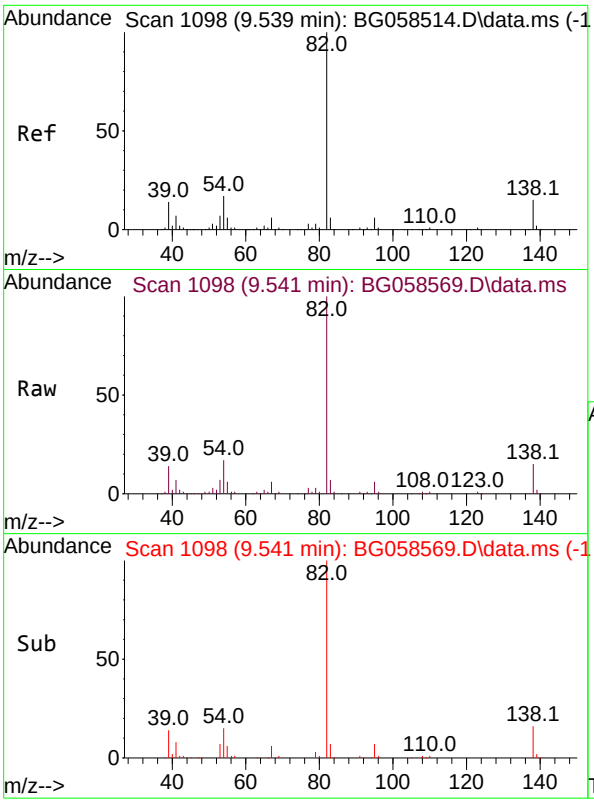


#24
Nitrobenzene
Concen: 38.525 ng
RT: 9.024 min Scan# 1010
Delta R.T. 0.003 min
Lab File: BG058569.D
Acq: 2 Aug 2023 8:34

Tgt Ion: 77 Resp: 134343

Ion	Ratio	Lower	Upper
77	100		
123	42.2	35.6	53.4
65	13.7	11.4	17.0



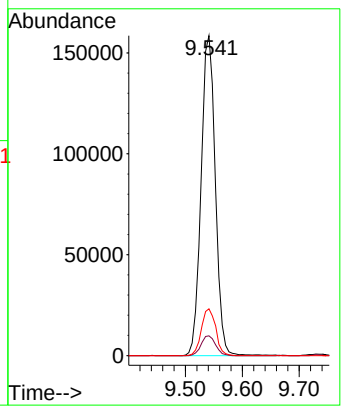


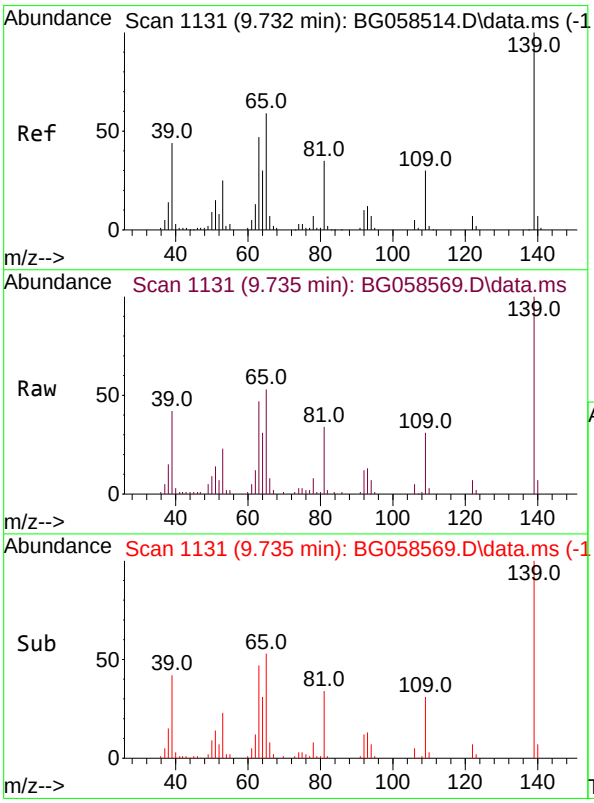
#25
Isophorone
Concen: 38.808 ng
RT: 9.541 min Scan# 10
Delta R.T. 0.003 min
Lab File: BG058569.D
Acq: 2 Aug 2023 8:34

Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Tgt Ion: 82 Resp: 275042

Ion	Ratio	Lower	Upper
82	100		
95	6.2	5.1	7.7
138	14.6	11.9	17.9

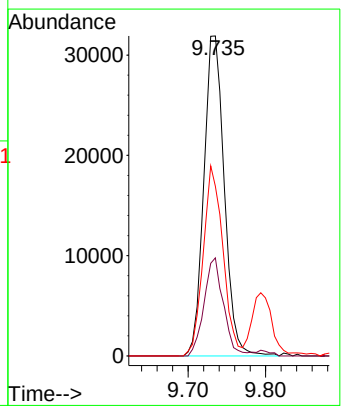


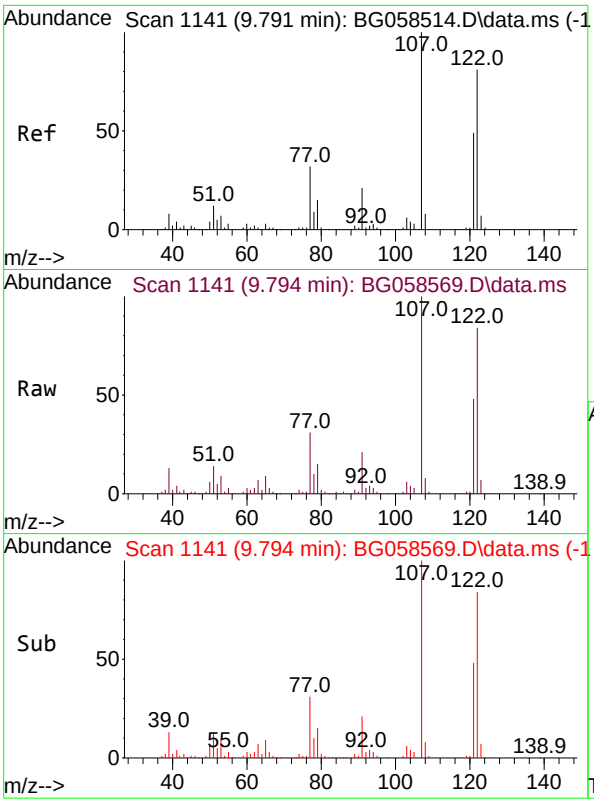


#26
2-Nitrophenol
Concen: 38.520 ng
RT: 9.735 min Scan# 1131
Delta R.T. 0.003 min
Lab File: BG058569.D
Acq: 2 Aug 2023 8:34

Tgt Ion:139 Resp: 58471

Ion	Ratio	Lower	Upper
139	100		
109	30.6	24.2	36.2
65	53.0	47.0	70.4



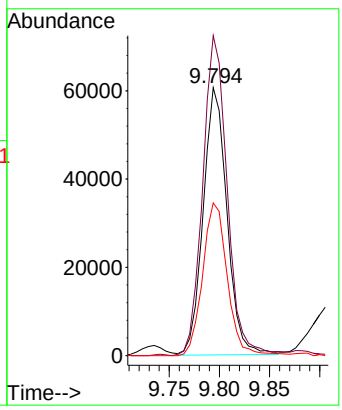


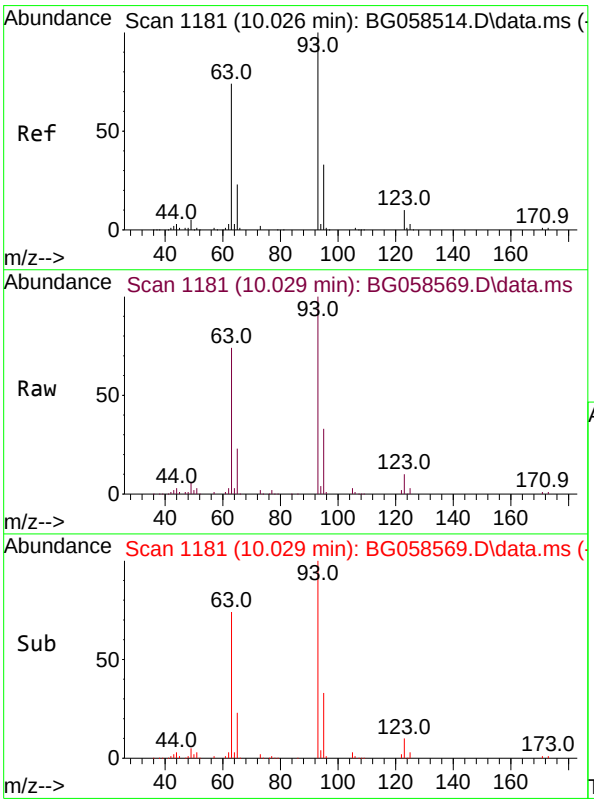
#27
2,4-Dimethylphenol
Concen: 39.658 ng
RT: 9.794 min Scan# 11
Delta R.T. 0.003 min
Lab File: BG058569.D
Acq: 2 Aug 2023 8:34

Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Tgt Ion:122 Resp: 99853

Ion	Ratio	Lower	Upper
122	100		
107	119.5	98.0	147.0
121	57.0	47.8	71.6

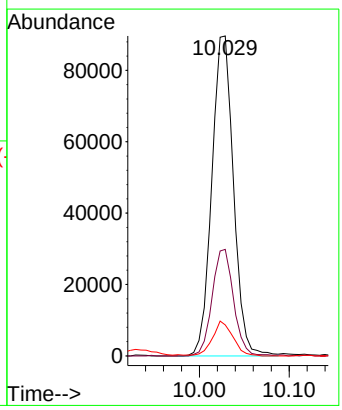


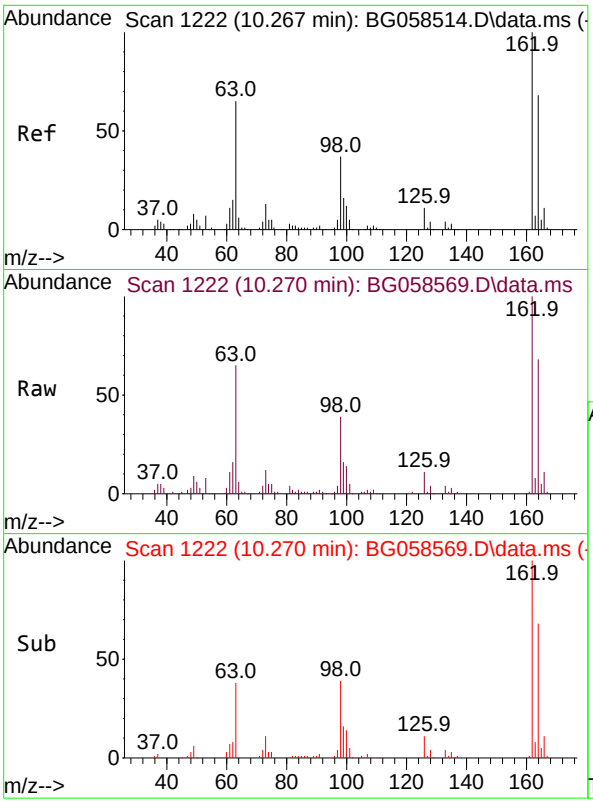


#28
bis(2-Chloroethoxy)methane
Concen: 39.225 ng
RT: 10.029 min Scan# 1181
Delta R.T. 0.003 min
Lab File: BG058569.D
Acq: 2 Aug 2023 8:34

Tgt Ion: 93 Resp: 151286

Ion	Ratio	Lower	Upper
93	100		
95	33.3	26.0	39.0
123	9.7	7.8	11.8



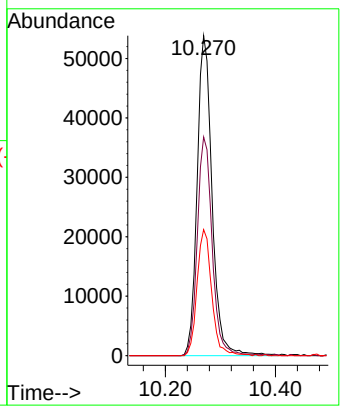


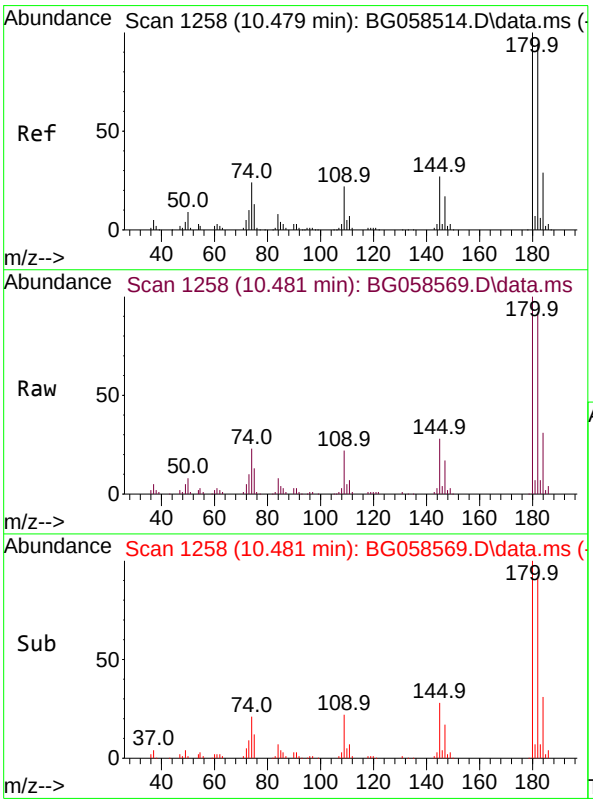
#29
2,4-Dichlorophenol
Concen: 38.741 ng
RT: 10.270 min Scan# 1
Delta R.T. 0.003 min
Lab File: BG058569.D
Acq: 2 Aug 2023 8:34

Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Tgt Ion:162 Resp: 101280

Ion	Ratio	Lower	Upper
162	100		
164	68.3	47.6	87.6
98	39.4	17.1	57.1

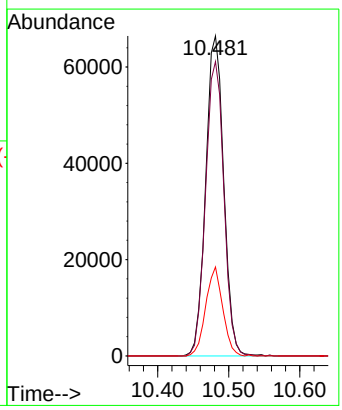


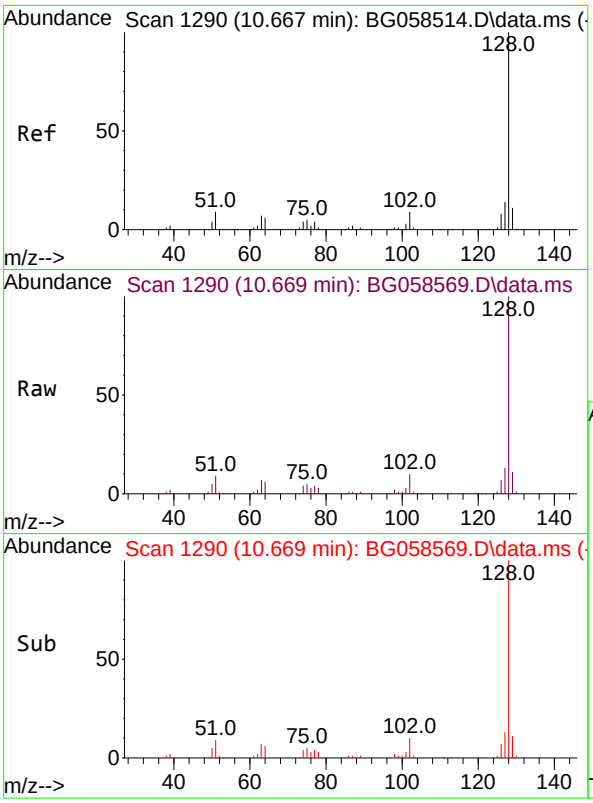


#30
1,2,4-Trichlorobenzene
Concen: 38.717 ng
RT: 10.481 min Scan# 1258
Delta R.T. 0.003 min
Lab File: BG058569.D
Acq: 2 Aug 2023 8:34

Tgt Ion:180 Resp: 116728

Ion	Ratio	Lower	Upper
180	100		
182	92.0	75.0	112.4
145	27.8	21.9	32.9



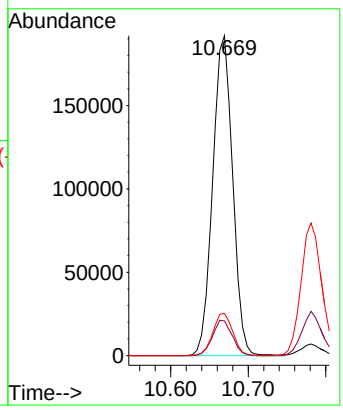


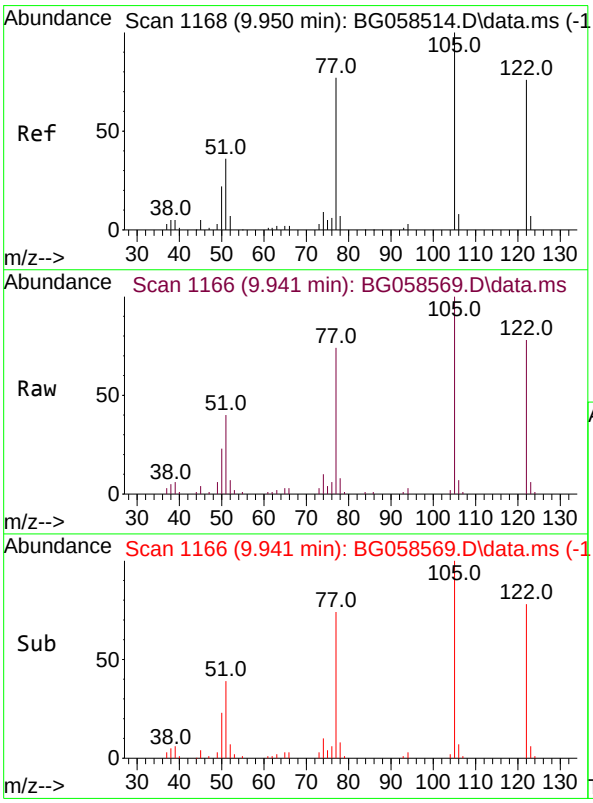
#31
Naphthalene
Concen: 38.560 ng
RT: 10.669 min Scan# 11
Delta R.T. 0.003 min
Lab File: BG058569.D
Acq: 2 Aug 2023 8:34

Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Tgt Ion:128 Resp: 342457

Ion	Ratio	Lower	Upper
128	100		
129	10.8	8.8	13.2
127	13.2	10.9	16.3

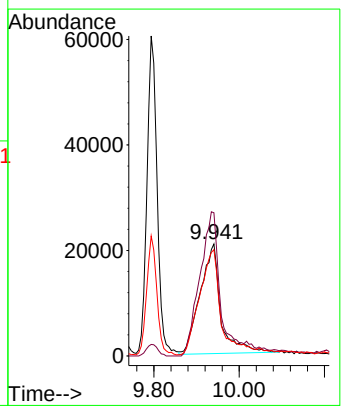


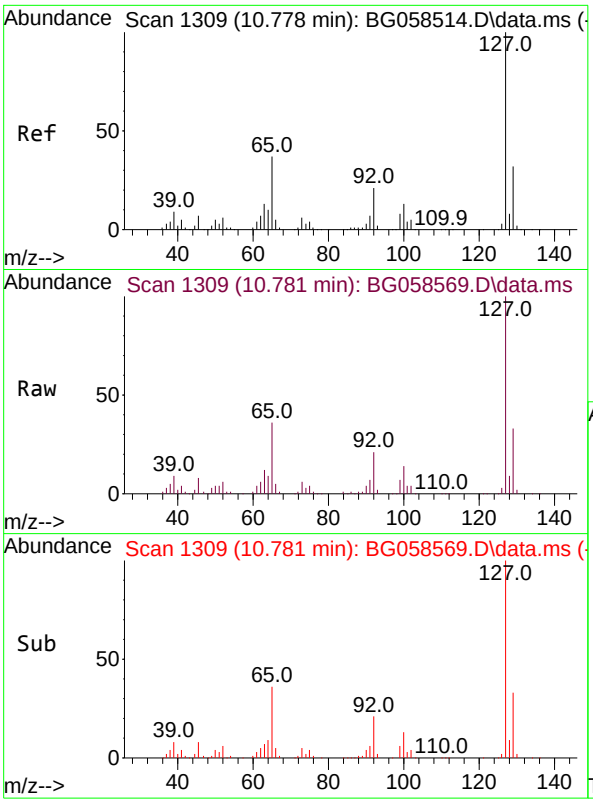


#32
Benzoic acid
Concen: 37.591 ng
RT: 9.941 min Scan# 1166
Delta R.T. -0.009 min
Lab File: BG058569.D
Acq: 2 Aug 2023 8:34

Tgt Ion:122 Resp: 70155

Ion	Ratio	Lower	Upper
122	100		
105	127.8	106.5	146.5
77	94.9	78.1	118.1



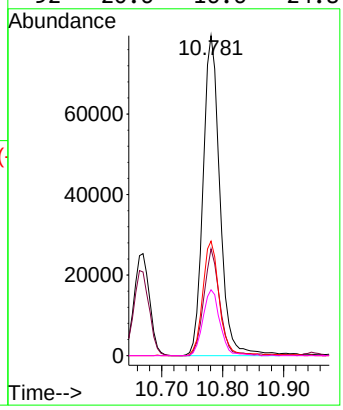


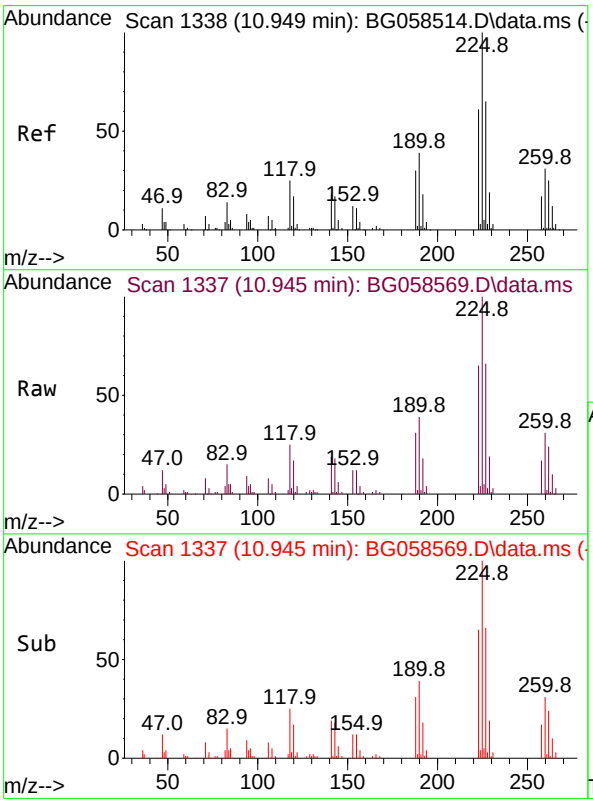
#33
4-Chloroaniline
Concen: 40.671 ng
RT: 10.781 min Scan# 1
Delta R.T. 0.003 min
Lab File: BG058569.D
Acq: 2 Aug 2023 8:34

Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Tgt Ion:127 Resp: 152612

Ion	Ratio	Lower	Upper
127	100		
129	33.4	25.4	38.2
65	35.8	29.5	44.3
92	20.6	16.6	24.8

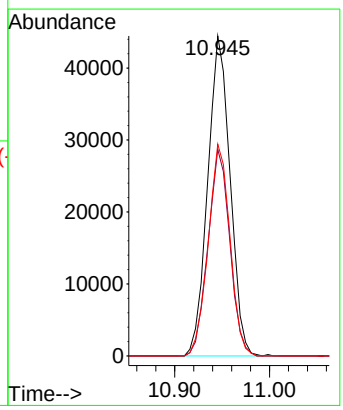


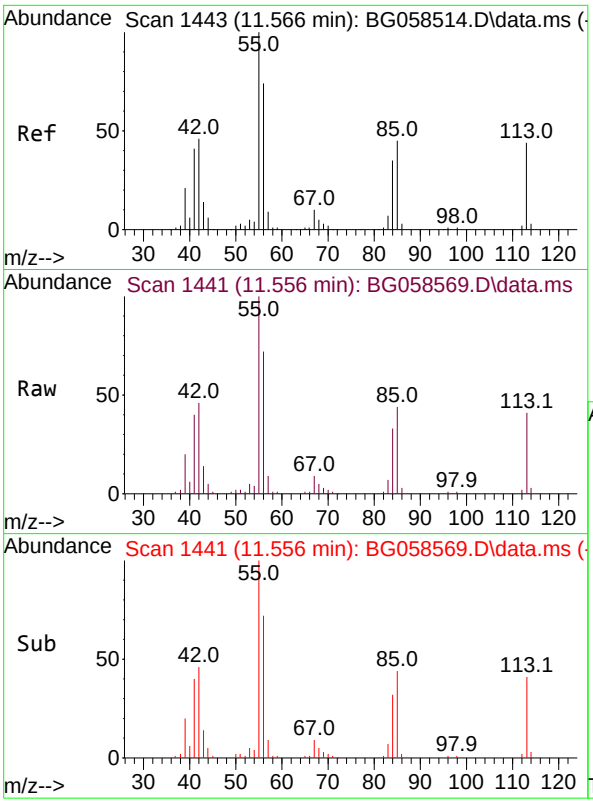


#34
Hexachlorobutadiene
Concen: 37.544 ng
RT: 10.945 min Scan# 1337
Delta R.T. -0.003 min
Lab File: BG058569.D
Acq: 2 Aug 2023 8:34

Tgt Ion:225 Resp: 72896

Ion	Ratio	Lower	Upper
225	100		
223	64.5	49.0	73.6
227	66.2	51.7	77.5



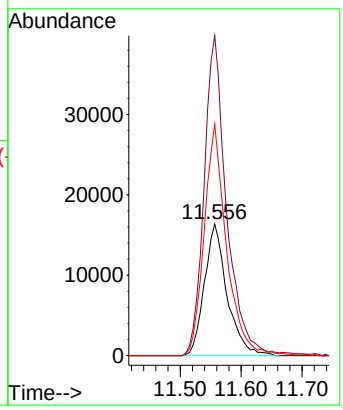


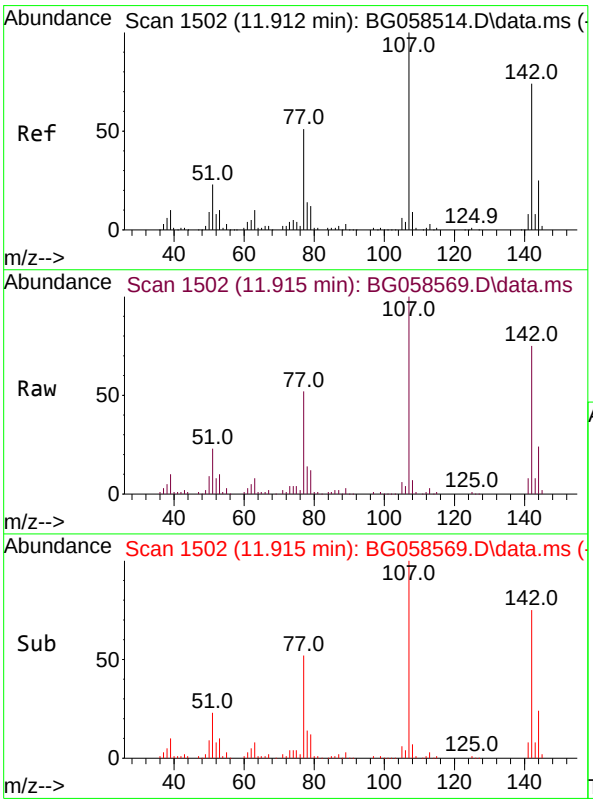
#35
Caprolactam
Concen: 43.796 ng
RT: 11.556 min Scan# 14
Delta R.T. -0.009 min
Lab File: BG058569.D
Acq: 2 Aug 2023 8:34

Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Tgt Ion:113 Resp: 42280

Ion	Ratio	Lower	Upper
113	100		
55	243.1	208.0	248.0
56	176.0	148.6	188.6

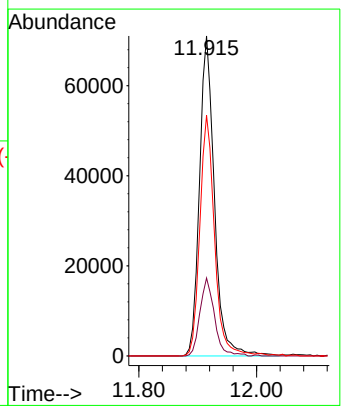


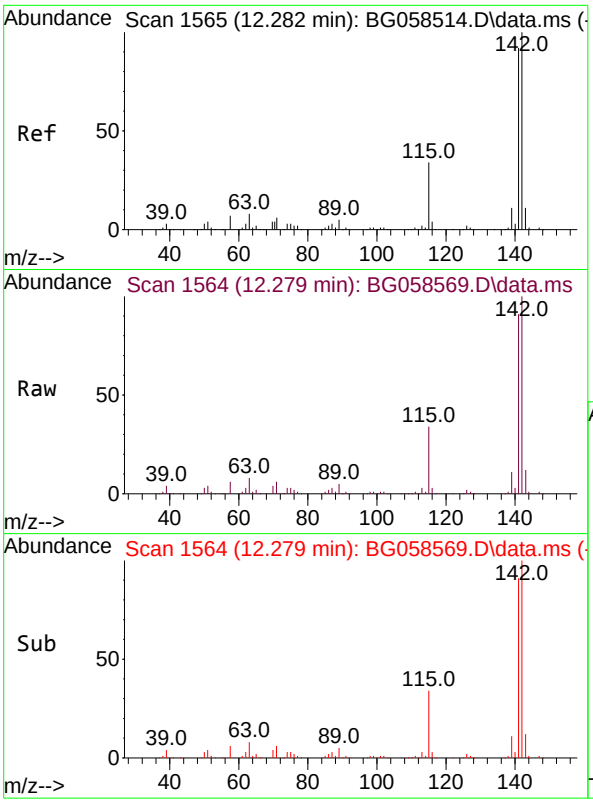


#36
4-Chloro-3-methylphenol
Concen: 38.677 ng
RT: 11.915 min Scan# 1502
Delta R.T. 0.003 min
Lab File: BG058569.D
Acq: 2 Aug 2023 8:34

Tgt Ion:107 Resp: 125079

Ion	Ratio	Lower	Upper
107	100		
144	24.3	19.6	29.4
142	75.2	59.3	88.9



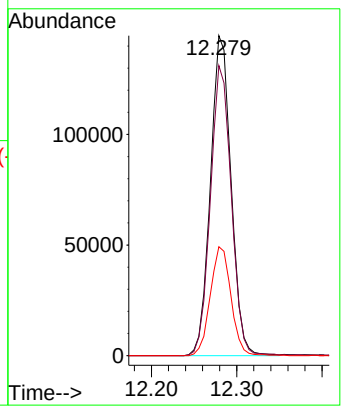


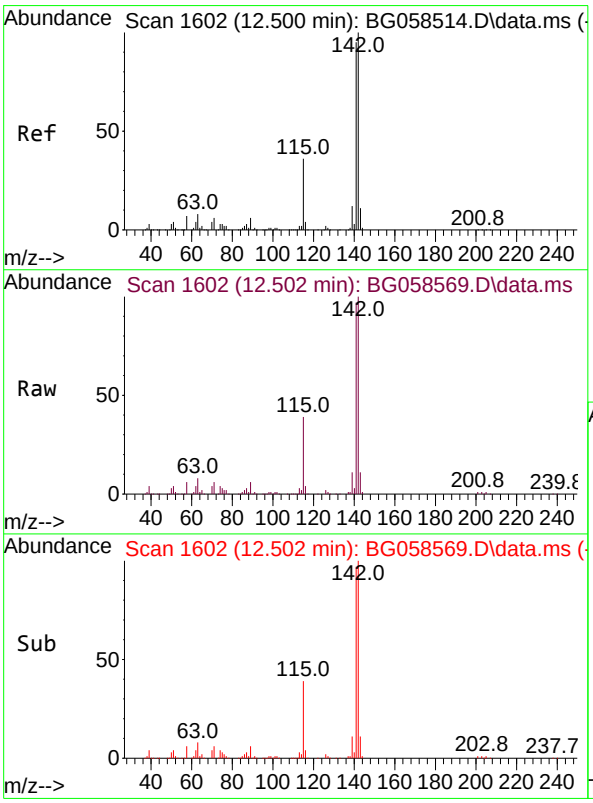
#37
2-Methylnaphthalene
Concen: 38.239 ng
RT: 12.279 min Scan# 1
Delta R.T. -0.003 min
Lab File: BG058569.D
Acq: 2 Aug 2023 8:34

Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Tgt Ion:142 Resp: 242924

Ion	Ratio	Lower	Upper
142	100		
141	90.6	73.5	110.3
115	34.0	27.4	41.0

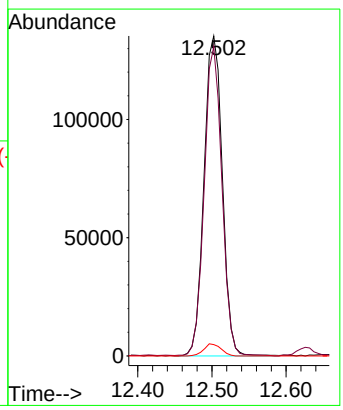


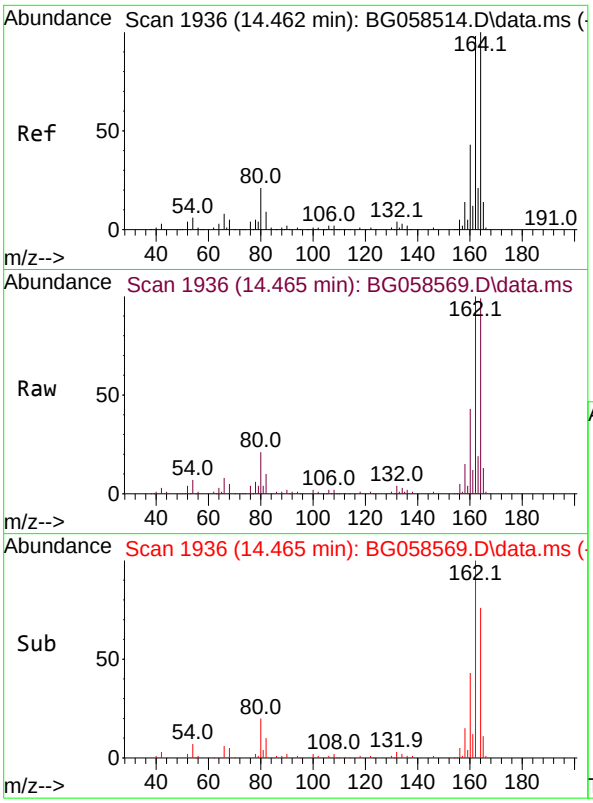


#38
1-Methylnaphthalene
Concen: 38.407 ng
RT: 12.502 min Scan# 1602
Delta R.T. 0.003 min
Lab File: BG058569.D
Acq: 2 Aug 2023 8:34

Tgt Ion:142 Resp: 231936

Ion	Ratio	Lower	Upper
142	100		
141	96.6	75.7	113.5
116	3.5	3.2	4.8



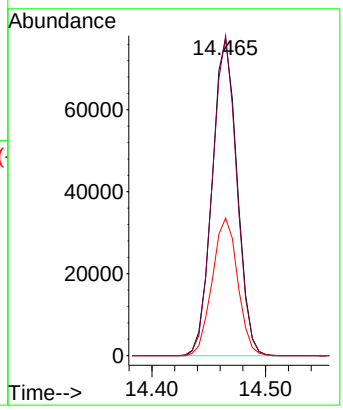


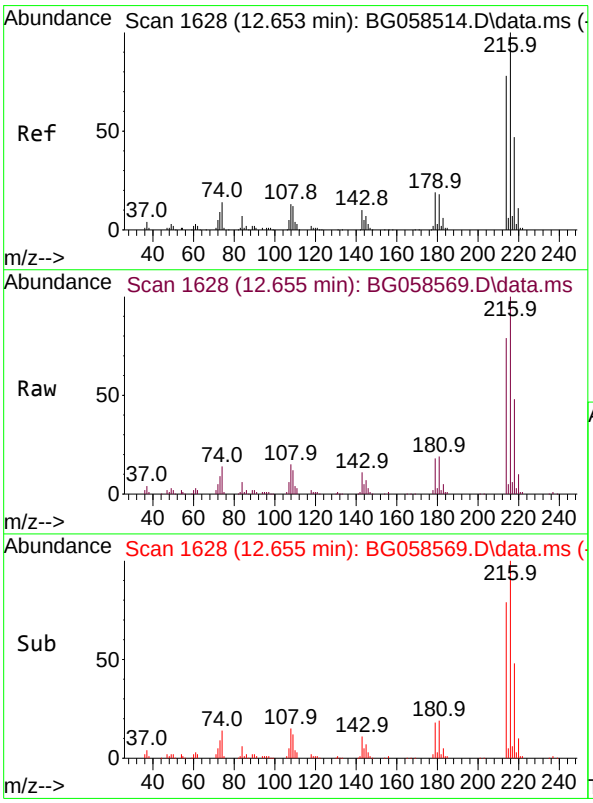
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.465 min Scan# 19
Delta R.T. 0.003 min
Lab File: BG058569.D
Acq: 2 Aug 2023 8:34

Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Tgt Ion:164 Resp: 117751

Ion	Ratio	Lower	Upper
164	100		
162	101.2	78.3	117.5
160	43.5	34.1	51.1

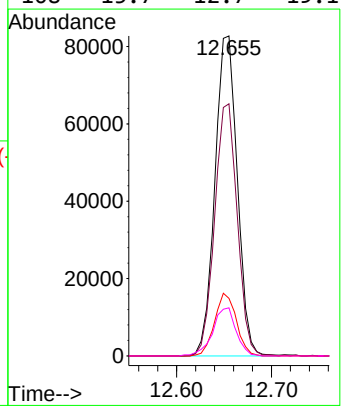


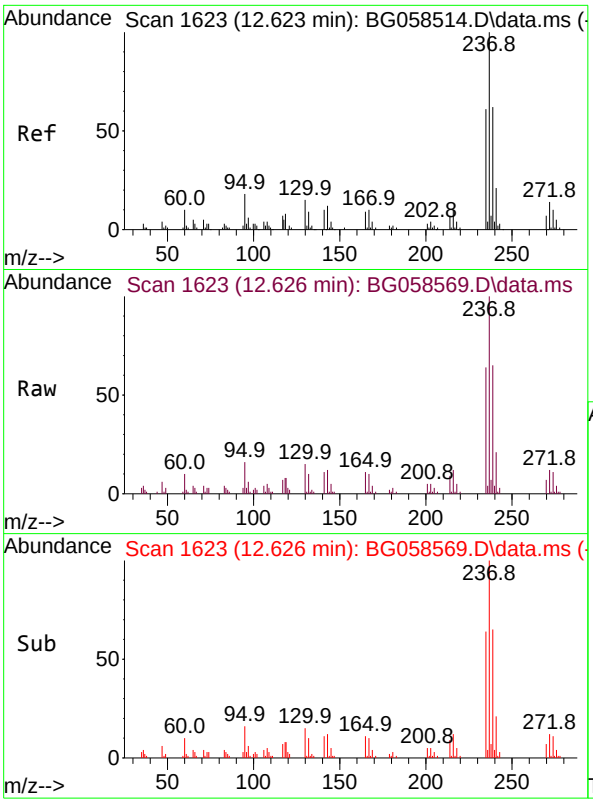


#40
1,2,4,5-Tetrachlorobenzene
Concen: 37.566 ng
RT: 12.655 min Scan# 1628
Delta R.T. 0.003 min
Lab File: BG058569.D
Acq: 2 Aug 2023 8:34

Tgt Ion:216 Resp: 135803

Ion	Ratio	Lower	Upper
216	100		
214	79.3	63.1	94.7
179	19.0	15.6	23.4
108	15.7	12.7	19.1



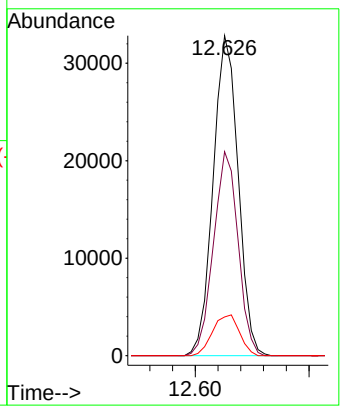


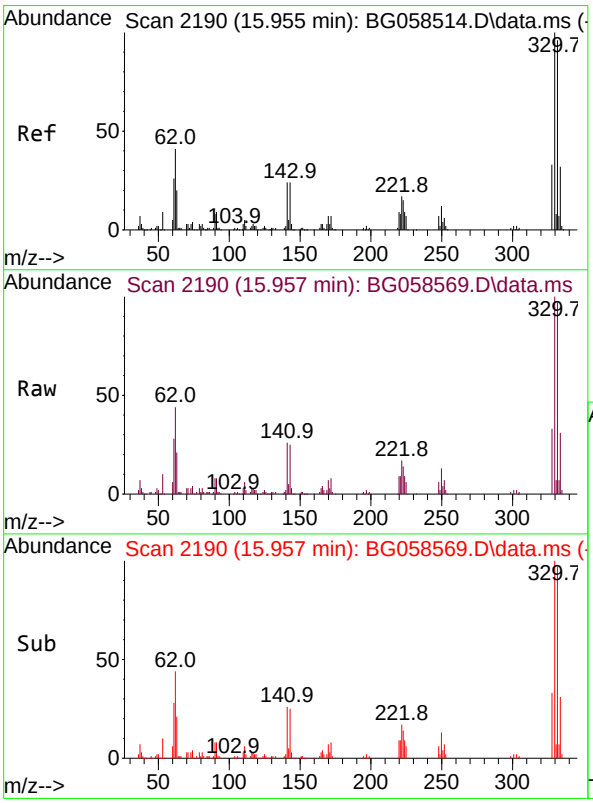
#41
Hexachlorocyclopentadiene
Concen: 34.086 ng
RT: 12.626 min Scan# 1
Delta R.T. 0.003 min
Lab File: BG058569.D
Acq: 2 Aug 2023 8:34

Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Tgt Ion:237 Resp: 50057

Ion	Ratio	Lower	Upper
237	100		
235	63.8	41.0	81.0
272	12.1	0.0	33.6

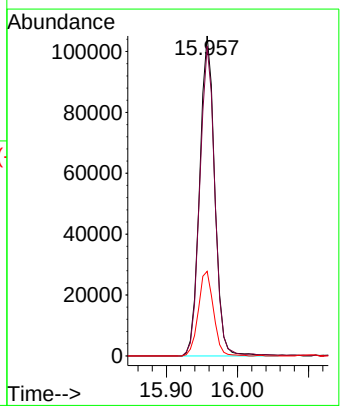


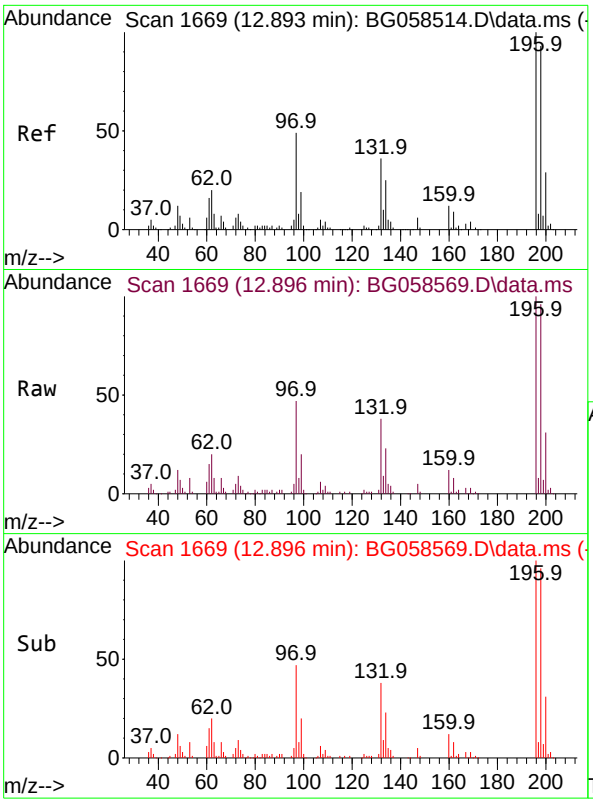


#42
2,4,6-Tribromophenol
Concen: 79.789 ng
RT: 15.957 min Scan# 2190
Delta R.T. 0.003 min
Lab File: BG058569.D
Acq: 2 Aug 2023 8:34

Tgt Ion:330 Resp: 153994

Ion	Ratio	Lower	Upper
330	100		
332	96.6	77.5	116.3
141	26.6	20.7	31.1



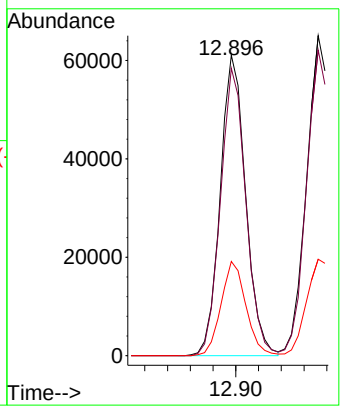


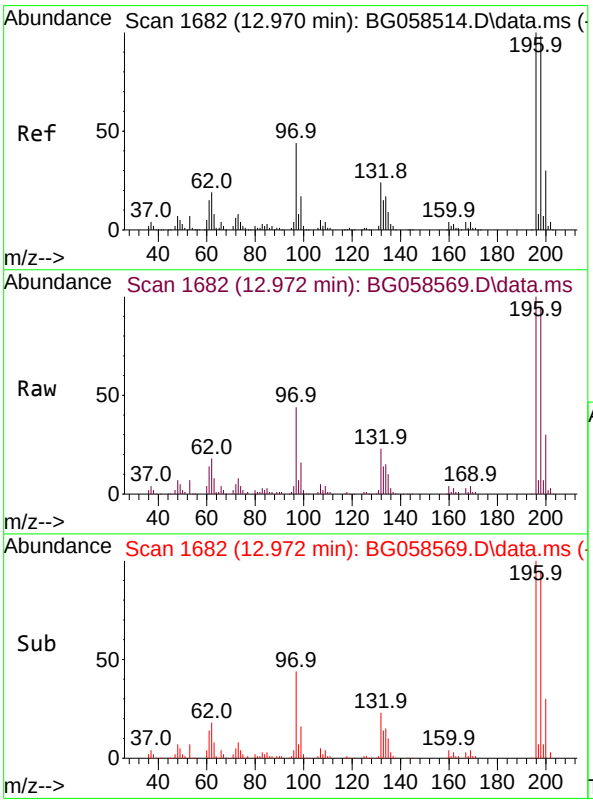
#43
2,4,6-Trichlorophenol
Concen: 38.057 ng
RT: 12.896 min Scan# 1
Delta R.T. 0.003 min
Lab File: BG058569.D
Acq: 2 Aug 2023 8:34

Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Tgt Ion:196 Resp: 94628

Ion	Ratio	Lower	Upper
196	100		
198	95.7	74.2	111.4
200	31.3	22.9	34.3

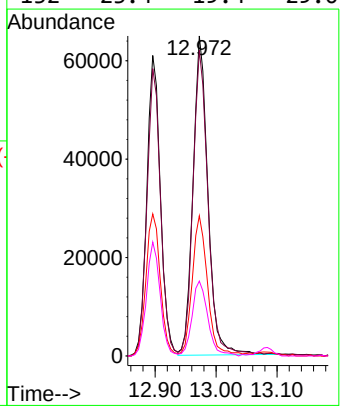


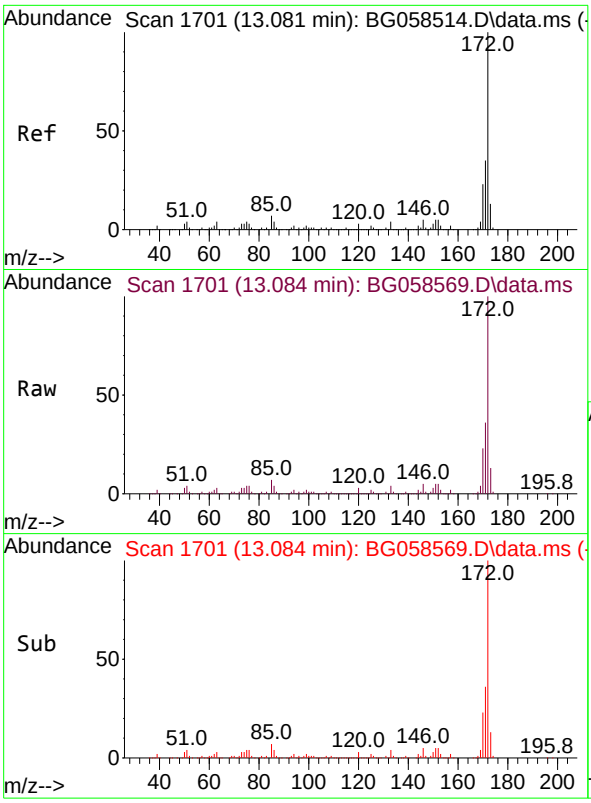


#44
2,4,5-Trichlorophenol
Concen: 37.762 ng
RT: 12.972 min Scan# 1682
Delta R.T. 0.003 min
Lab File: BG058569.D
Acq: 2 Aug 2023 8:34

Tgt Ion:196 Resp: 110594

Ion	Ratio	Lower	Upper
196	100		
198	95.5	78.3	117.5
97	43.8	35.2	52.8
132	23.4	19.4	29.0



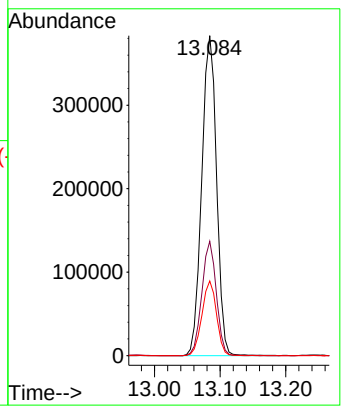


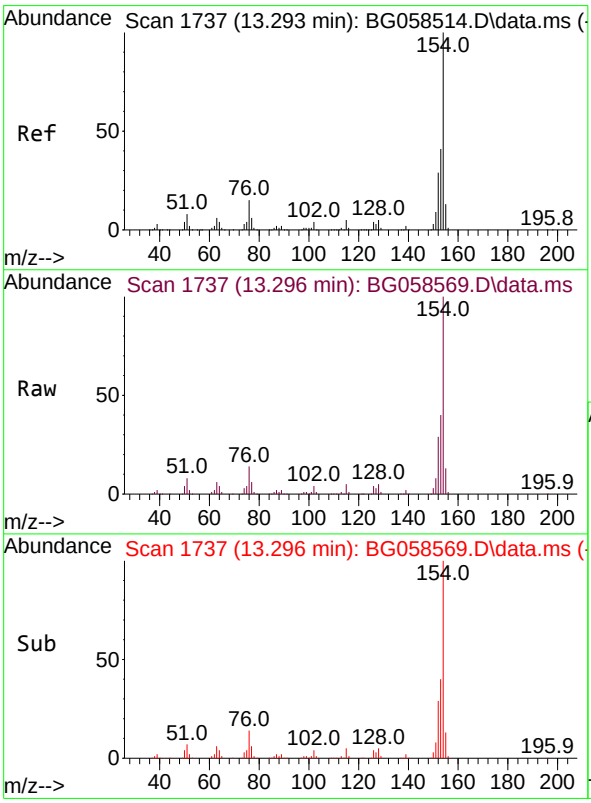
#45
2-Fluorobiphenyl
Concen: 76.110 ng
RT: 13.084 min Scan# 1
Delta R.T. 0.003 min
Lab File: BG058569.D
Acq: 2 Aug 2023 8:34

Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Tgt Ion:172 Resp: 598032

Ion	Ratio	Lower	Upper
172	100		
171	35.7	28.0	42.0
170	23.3	18.4	27.6

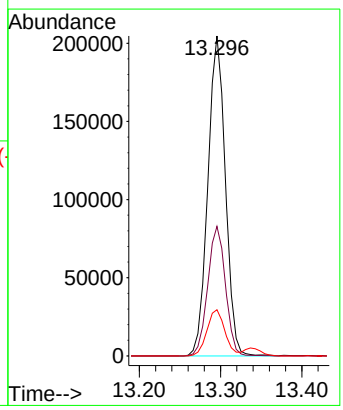


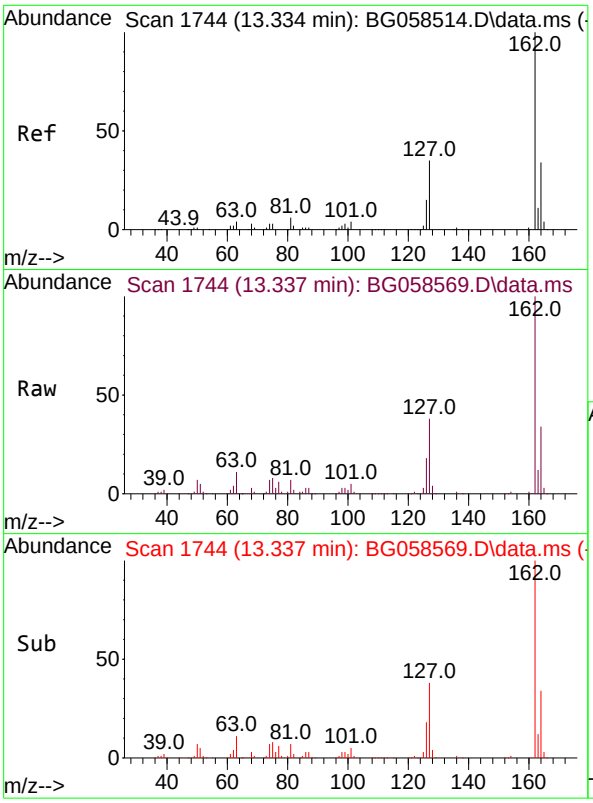


#46
1,1'-Biphenyl
Concen: 37.984 ng
RT: 13.296 min Scan# 1737
Delta R.T. 0.003 min
Lab File: BG058569.D
Acq: 2 Aug 2023 8:34

Tgt Ion:154 Resp: 307161

Ion	Ratio	Lower	Upper
154	100		
153	40.5	21.2	61.2
76	14.4	0.0	34.7



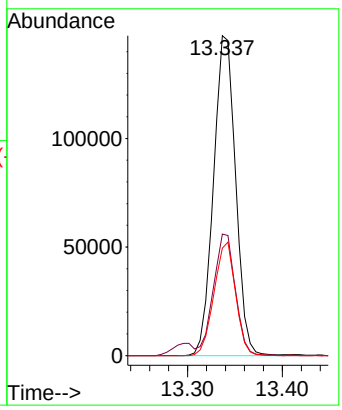


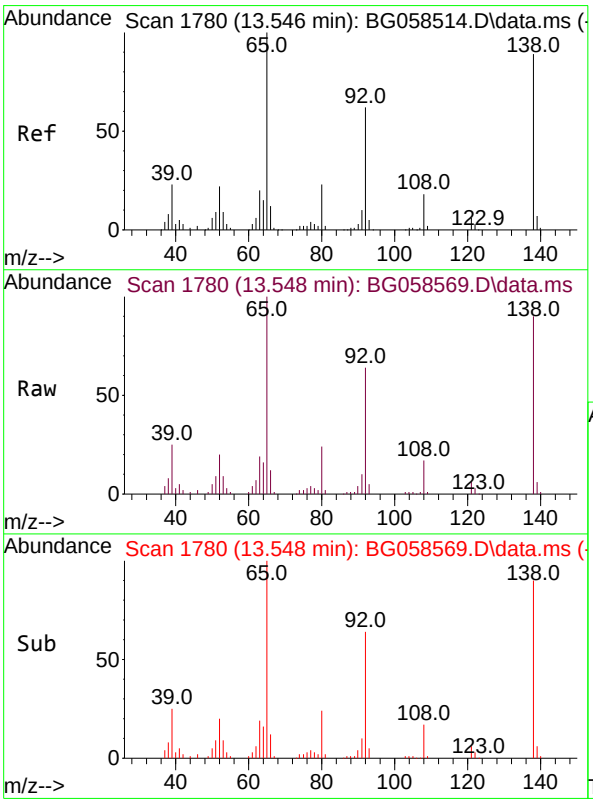
#47
2-Chloronaphthalene
Concen: 37.861 ng
RT: 13.337 min Scan# 1
Delta R.T. 0.003 min
Lab File: BG058569.D
Acq: 2 Aug 2023 8:34

Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Tgt Ion:162 Resp: 238716

Ion	Ratio	Lower	Upper
162	100		
127	38.0	30.9	46.3
164	33.6	27.2	40.8

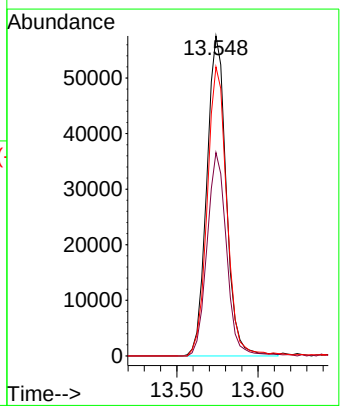


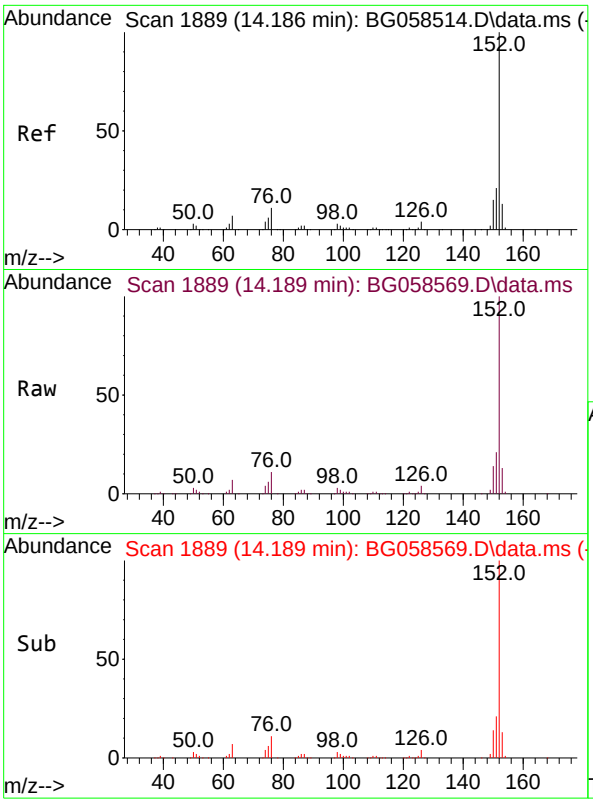


#48
2-Nitroaniline
Concen: 39.788 ng
RT: 13.548 min Scan# 1780
Delta R.T. 0.003 min
Lab File: BG058569.D
Acq: 2 Aug 2023 8:34

Tgt Ion: 65 Resp: 95754

Ion	Ratio	Lower	Upper
65	100		
92	63.5	49.2	73.8
138	90.3	71.5	107.3



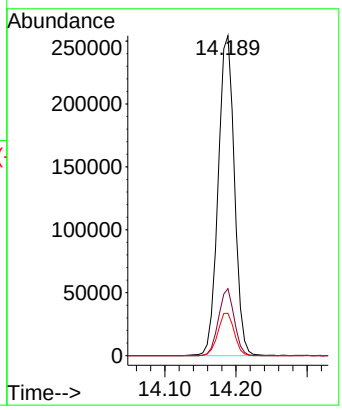


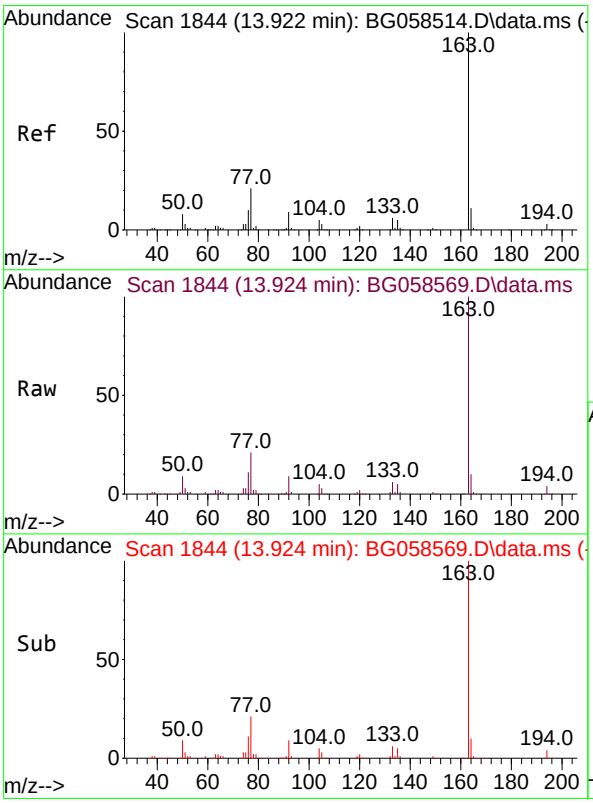
#49
Acenaphthylene
Concen: 38.360 ng
RT: 14.189 min Scan# 18
Delta R.T. 0.003 min
Lab File: BG058569.D
Acq: 2 Aug 2023 8:34

Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Tgt Ion:152 Resp: 404934

Ion	Ratio	Lower	Upper
152	100		
151	20.9	16.5	24.7
153	13.2	10.7	16.1

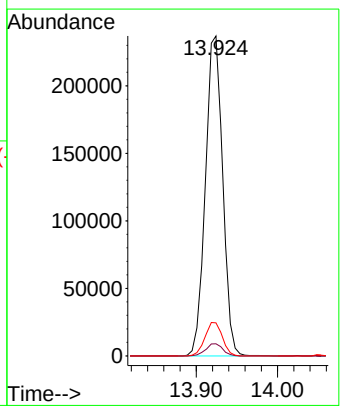


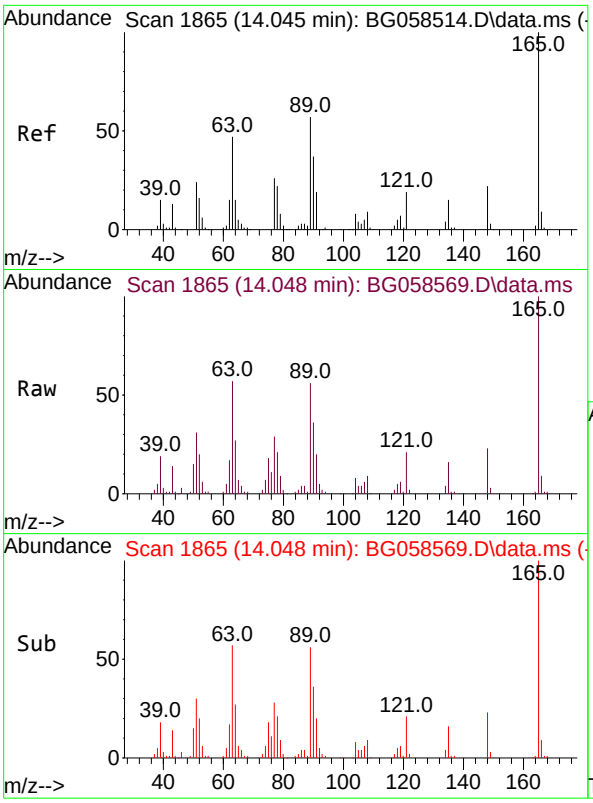


#50
Dimethylphthalate
Concen: 39.651 ng
RT: 13.924 min Scan# 1844
Delta R.T. 0.003 min
Lab File: BG058569.D
Acq: 2 Aug 2023 8:34

Tgt Ion:163 Resp: 350648

Ion	Ratio	Lower	Upper
163	100		
194	3.8	2.7	4.1
164	10.3	8.6	12.8



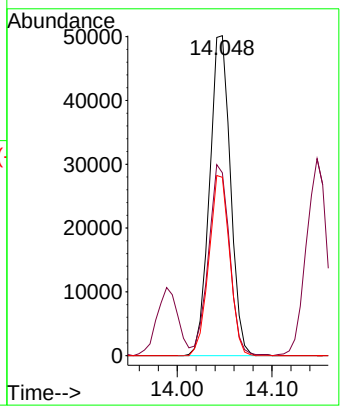


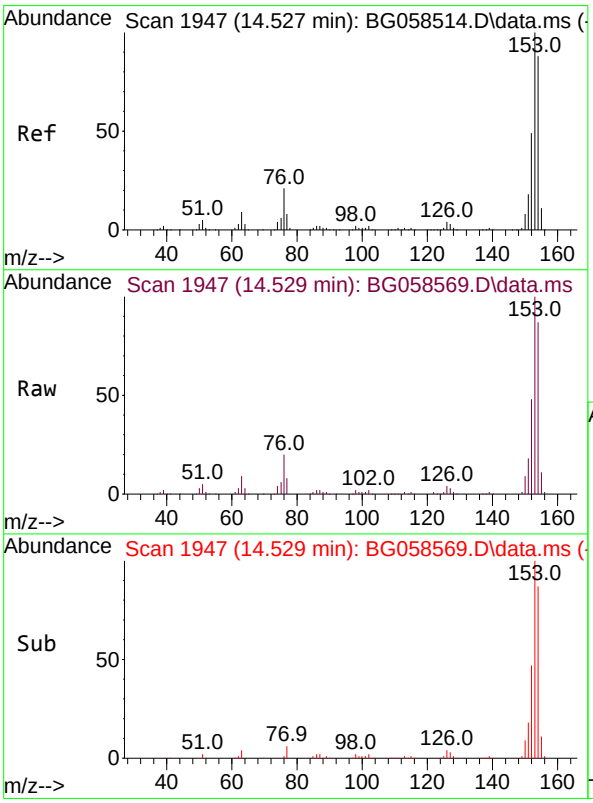
#51
2,6-Dinitrotoluene
Concen: 39.571 ng
RT: 14.048 min Scan# 18
Delta R.T. 0.003 min
Lab File: BG058569.D
Acq: 2 Aug 2023 8:34

Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Tgt Ion:165 Resp: 76784

Ion	Ratio	Lower	Upper
165	100		
63	57.2	46.4	69.6
89	55.7	45.3	67.9

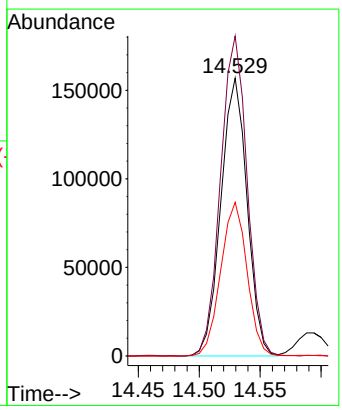


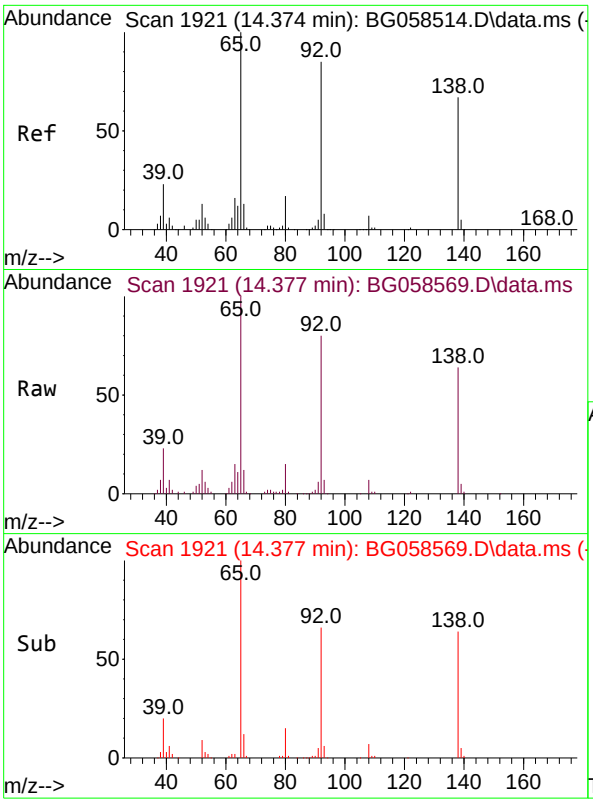


#52
Acenaphthene
Concen: 38.494 ng
RT: 14.529 min Scan# 1947
Delta R.T. 0.003 min
Lab File: BG058569.D
Acq: 2 Aug 2023 8:34

Tgt Ion:154 Resp: 234797

Ion	Ratio	Lower	Upper
154	100		
153	115.2	91.1	136.7
152	55.2	44.6	66.8



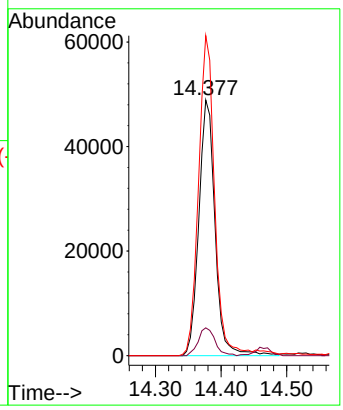


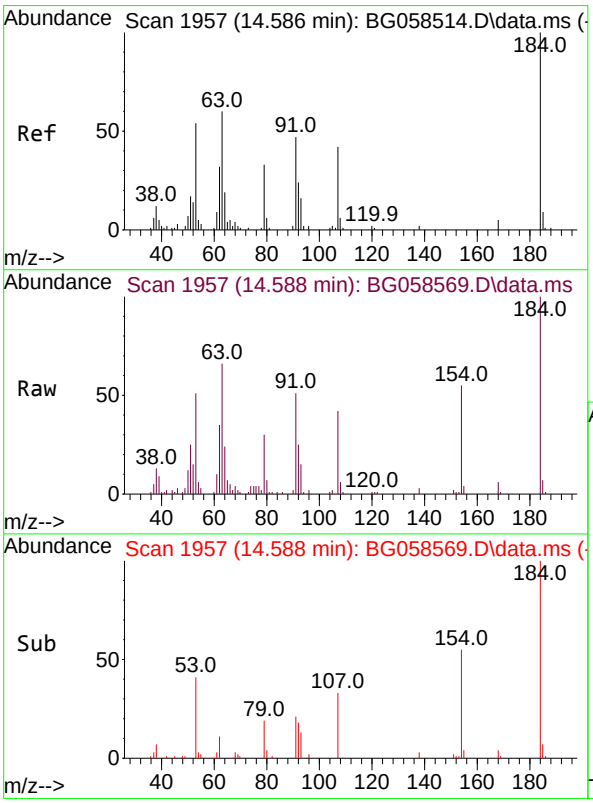
#53
3-Nitroaniline
Concen: 43.092 ng
RT: 14.377 min Scan# 19
Delta R.T. 0.003 min
Lab File: BG058569.D
Acq: 2 Aug 2023 8:34

Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Tgt Ion:138 Resp: 83657

Ion	Ratio	Lower	Upper
138	100		
108	10.9	8.3	12.5
92	125.2	101.1	151.7

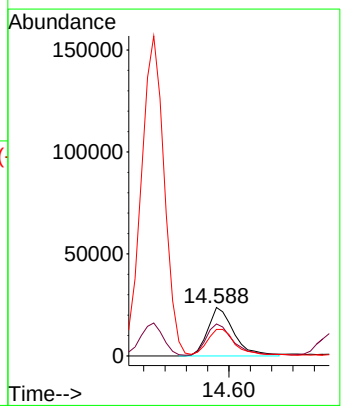


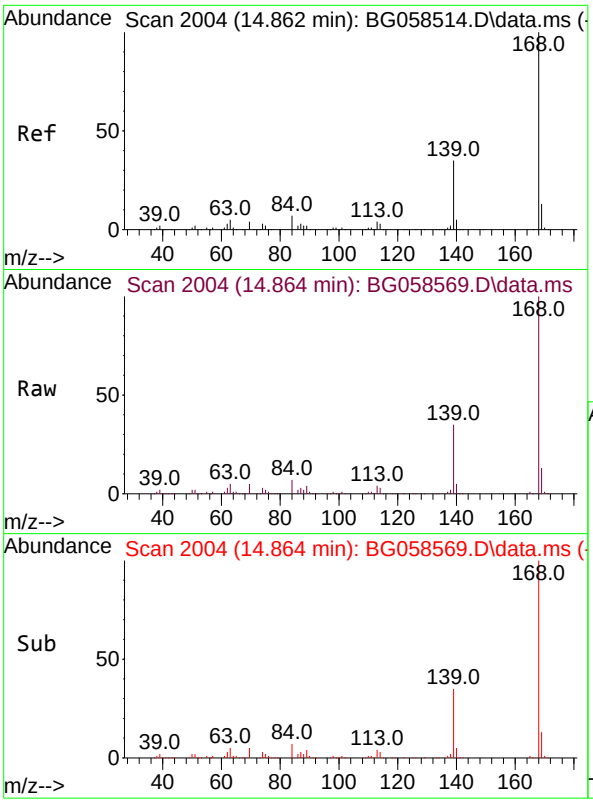


#54
2,4-Dinitrophenol
Concen: 40.894 ng
RT: 14.588 min Scan# 1957
Delta R.T. 0.002 min
Lab File: BG058569.D
Acq: 2 Aug 2023 8:34

Tgt Ion:184 Resp: 40316

Ion	Ratio	Lower	Upper
184	100		
63	66.0	56.7	85.1
154	54.7	46.1	69.1



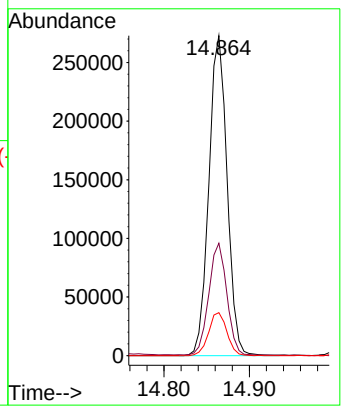


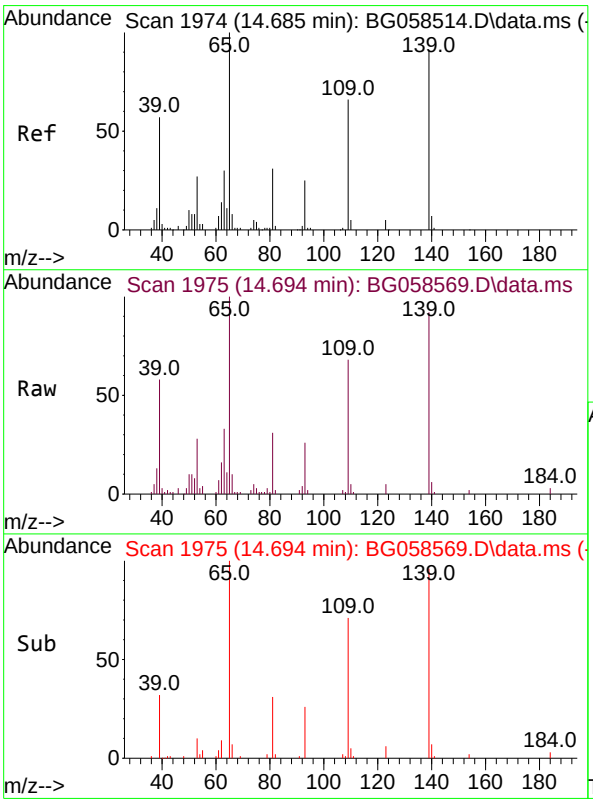
#55
Dibenzofuran
Concen: 38.647 ng
RT: 14.864 min Scan# 2
Delta R.T. 0.003 min
Lab File: BG058569.D
Acq: 2 Aug 2023 8:34

Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Tgt Ion:168 Resp: 405061

Ion	Ratio	Lower	Upper
168	100		
139	35.1	27.8	41.8
169	13.4	10.6	16.0

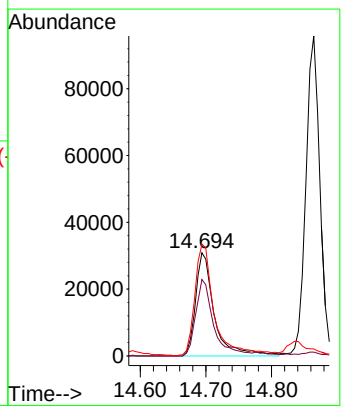


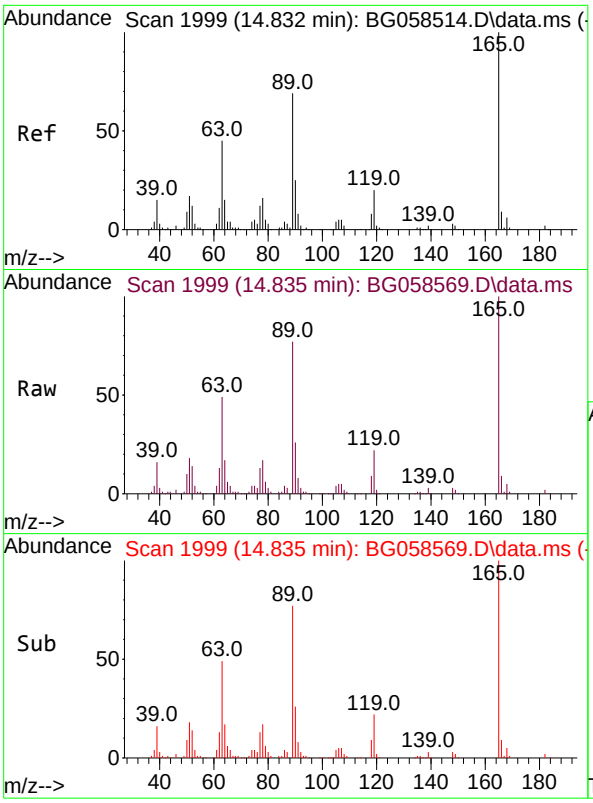


#56
4-Nitrophenol
Concen: 44.081 ng
RT: 14.694 min Scan# 1975
Delta R.T. 0.009 min
Lab File: BG058569.D
Acq: 2 Aug 2023 8:34

Tgt Ion:139 Resp: 61172

Ion	Ratio	Lower	Upper
139	100		
109	74.1	52.5	92.5
65	108.2	90.5	130.5



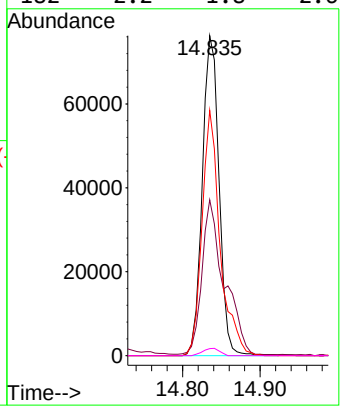


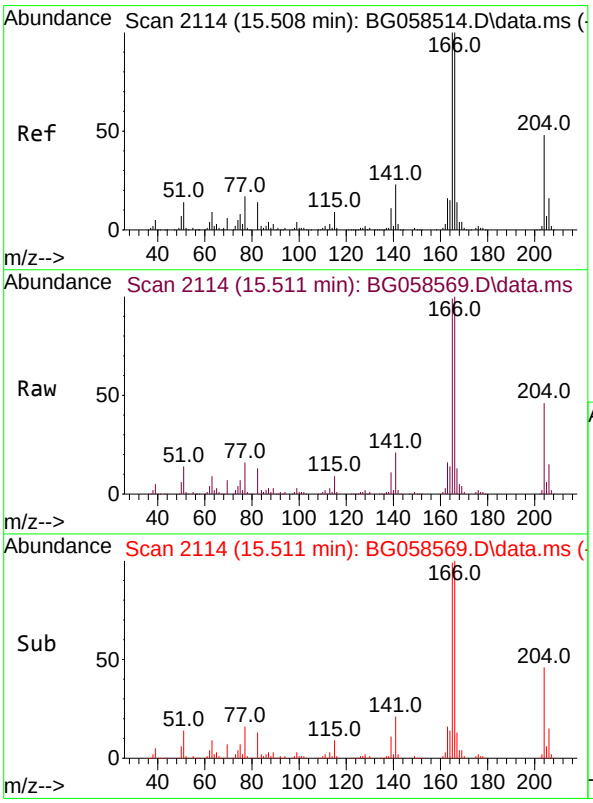
#57
2,4-Dinitrotoluene
Concen: 42.396 ng
RT: 14.835 min Scan# 19
Delta R.T. 0.003 min
Lab File: BG058569.D
Acq: 2 Aug 2023 8:34

Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Tgt Ion:165 Resp: 114051

Ion	Ratio	Lower	Upper
165	100		
63	48.7	36.6	54.8
89	76.6	55.4	83.0
182	2.2	1.8	2.6

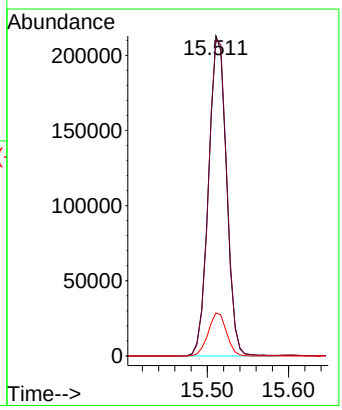


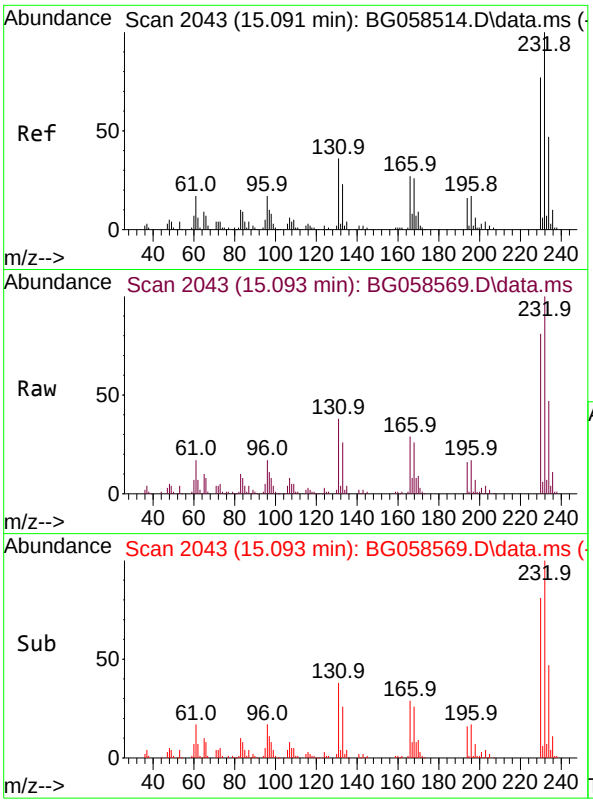


#58
Fluorene
Concen: 39.177 ng
RT: 15.511 min Scan# 2114
Delta R.T. 0.003 min
Lab File: BG058569.D
Acq: 2 Aug 2023 8:34

Tgt Ion:166 Resp: 326199

Ion	Ratio	Lower	Upper
166	100		
165	98.9	80.0	120.0
167	13.4	11.3	16.9



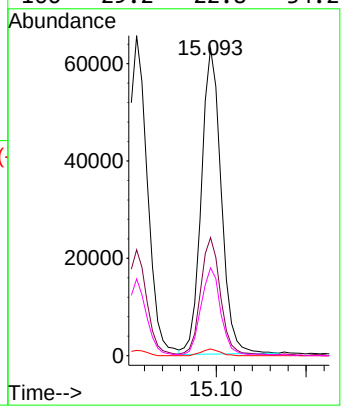


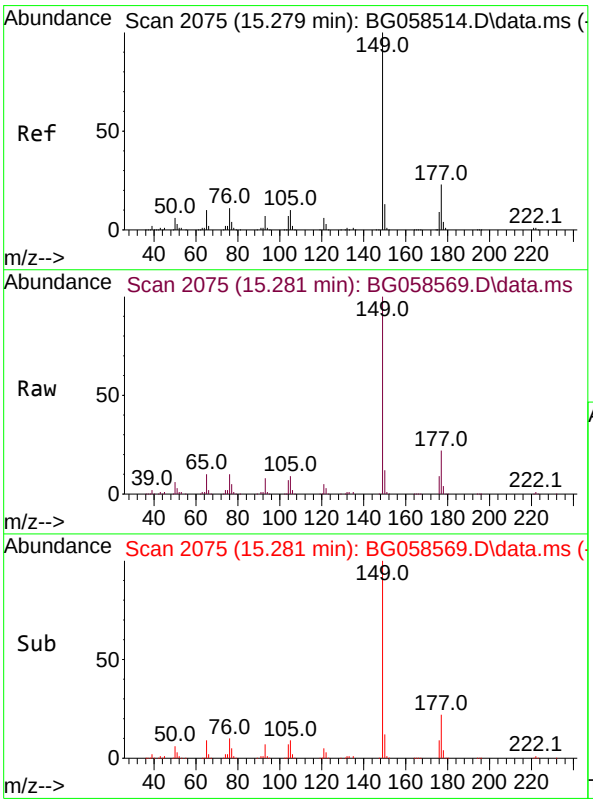
#59
2,3,4,6-Tetrachlorophenol
Concen: 38.707 ng
RT: 15.093 min Scan# 2
Delta R.T. 0.003 min
Lab File: BG058569.D
Acq: 2 Aug 2023 8:34

Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Tgt Ion:232 Resp: 96734

Ion	Ratio	Lower	Upper
232	100		
131	38.2	30.0	45.0
130	2.0	1.5	2.3
166	29.2	22.8	34.2

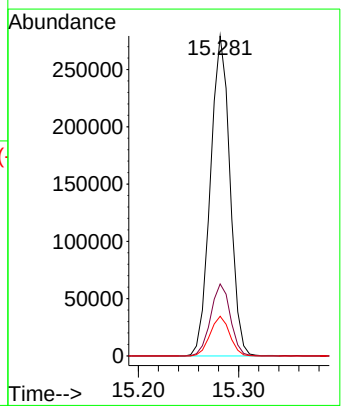


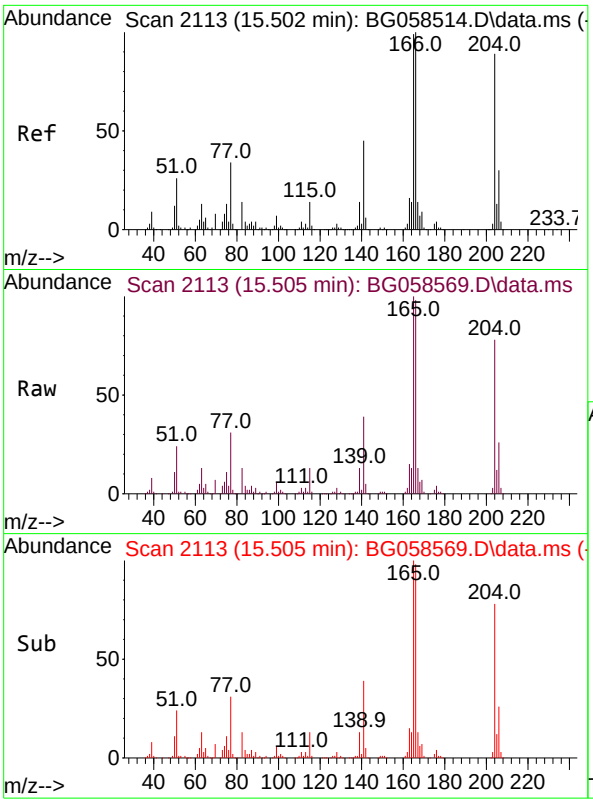


#60
Diethylphthalate
Concen: 41.987 ng
RT: 15.281 min Scan# 2075
Delta R.T. 0.003 min
Lab File: BG058569.D
Acq: 2 Aug 2023 8:34

Tgt Ion:149 Resp: 378266

Ion	Ratio	Lower	Upper
149	100		
177	22.5	18.2	27.4
150	12.4	10.2	15.4



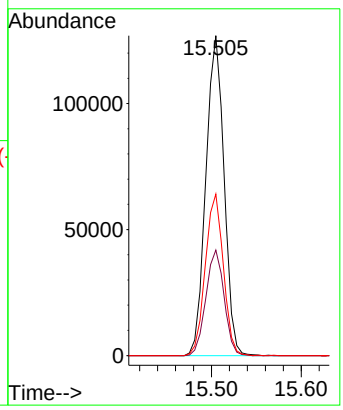


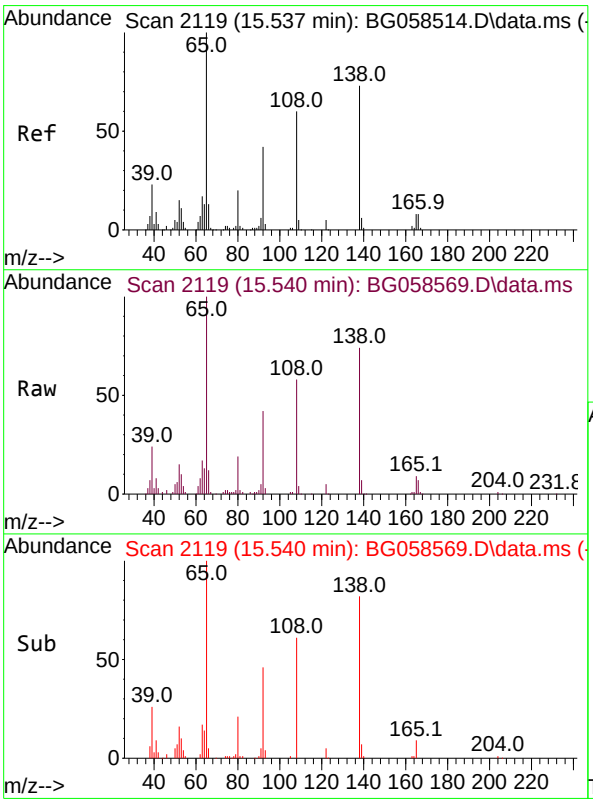
#61
4-Chlorophenyl-phenylether
Concen: 38.622 ng
RT: 15.505 min Scan# 21
Delta R.T. 0.003 min
Lab File: BG058569.D
Acq: 2 Aug 2023 8:34

Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Tgt Ion:204 Resp: 179282

Ion	Ratio	Lower	Upper
204	100		
206	33.0	27.0	40.4
141	50.5	40.8	61.2

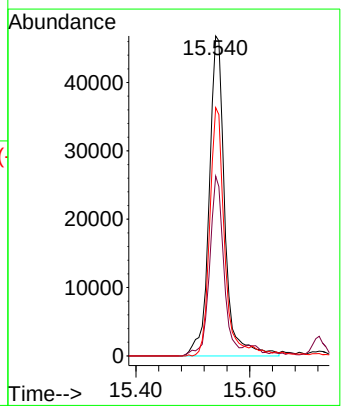


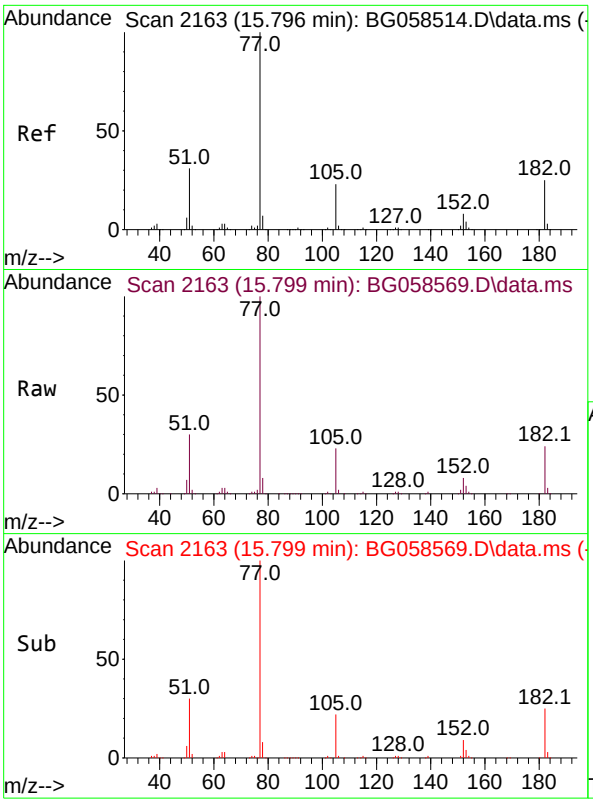


#62
4-Nitroaniline
Concen: 48.744 ng
RT: 15.540 min Scan# 2119
Delta R.T. 0.003 min
Lab File: BG058569.D
Acq: 2 Aug 2023 8:34

Tgt Ion:138 Resp: 89643

Ion	Ratio	Lower	Upper
138	100		
92	56.2	37.3	77.3
108	77.6	62.6	102.6



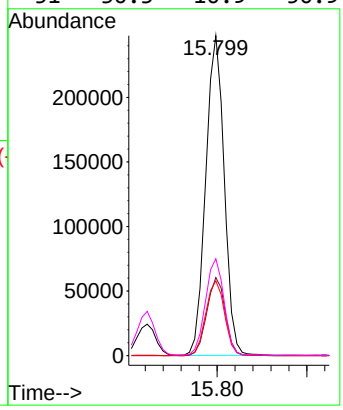


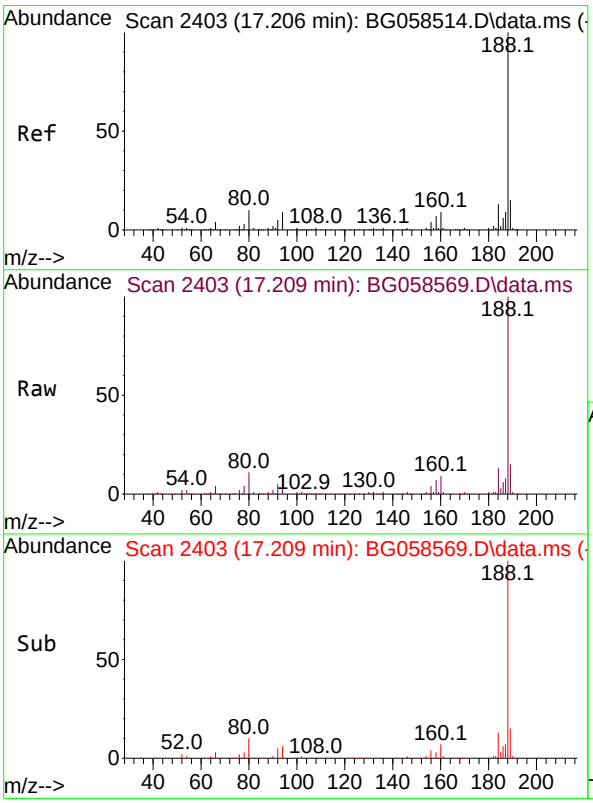
#63
Azobenzene
Concen: 39.908 ng
RT: 15.799 min Scan# 21
Delta R.T. 0.003 min
Lab File: BG058569.D
Acq: 2 Aug 2023 8:34

Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Tgt Ion: 77 Resp: 354130

Ion	Ratio	Lower	Upper
77	100		
182	24.4	4.6	44.6
105	23.4	3.3	43.3
51	30.3	10.9	50.9

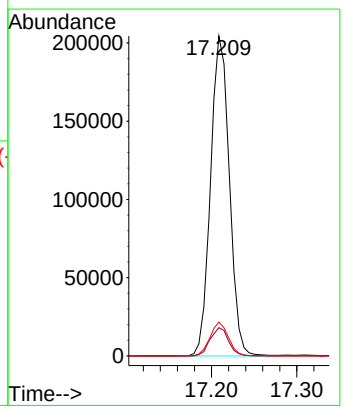


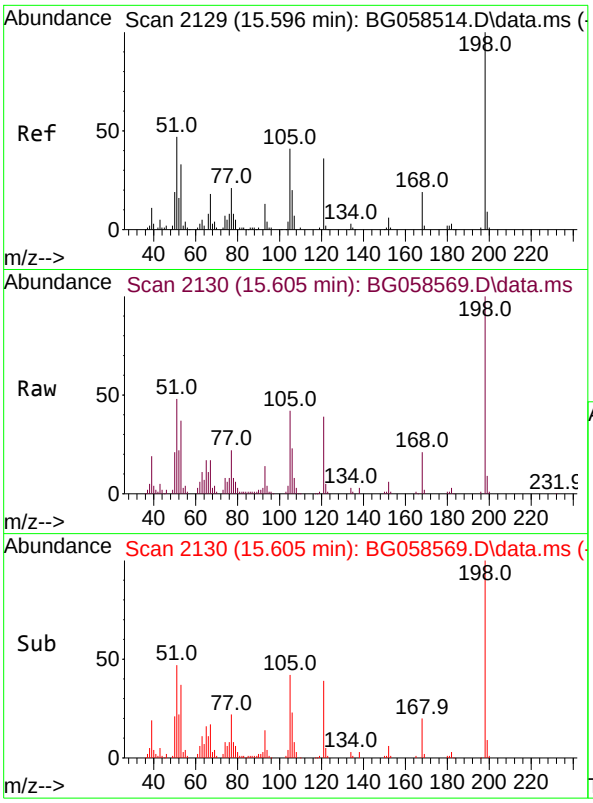


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.209 min Scan# 2403
Delta R.T. 0.003 min
Lab File: BG058569.D
Acq: 2 Aug 2023 8:34

Tgt Ion:188 Resp: 312836

Ion	Ratio	Lower	Upper
188	100		
94	8.8	7.0	10.6
80	10.6	8.1	12.1



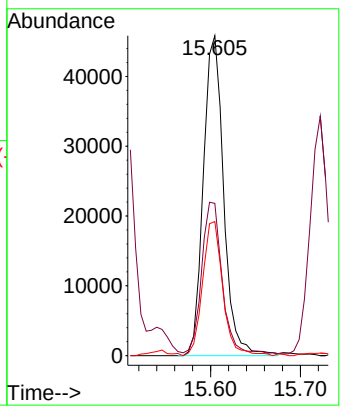


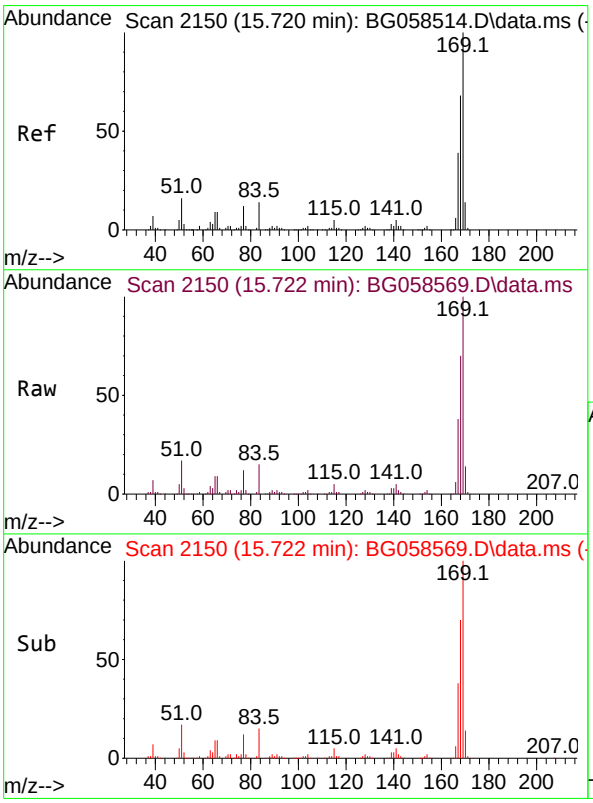
#65
4,6-Dinitro-2-methylphenol
Concen: 41.830 ng
RT: 15.605 min Scan# 21
Delta R.T. 0.009 min
Lab File: BG058569.D
Acq: 2 Aug 2023 8:34

Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Tgt Ion:198 Resp: 72155

Ion	Ratio	Lower	Upper
198	100		
51	47.6	29.3	69.3
105	41.9	21.0	61.0

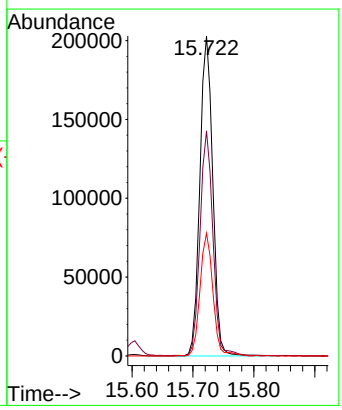


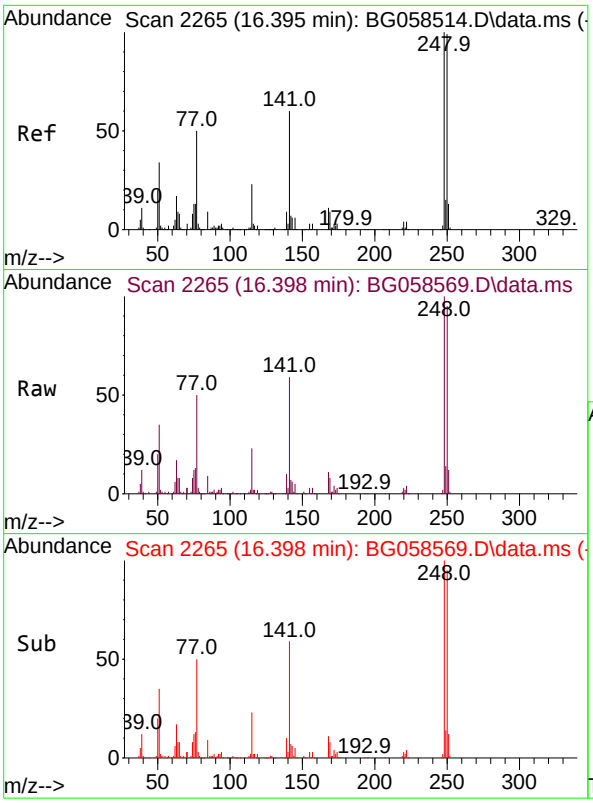


#66
n-Nitrosodiphenylamine
Concen: 36.578 ng
RT: 15.722 min Scan# 2150
Delta R.T. 0.003 min
Lab File: BG058569.D
Acq: 2 Aug 2023 8:34

Tgt Ion:169 Resp: 297828

Ion	Ratio	Lower	Upper
169	100		
168	70.3	54.6	82.0
167	38.3	31.3	46.9



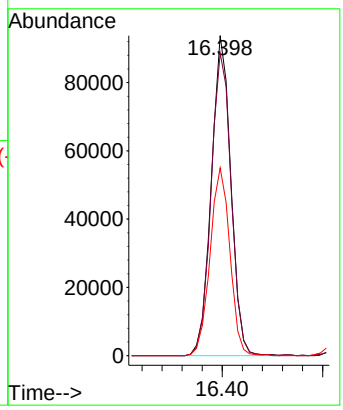


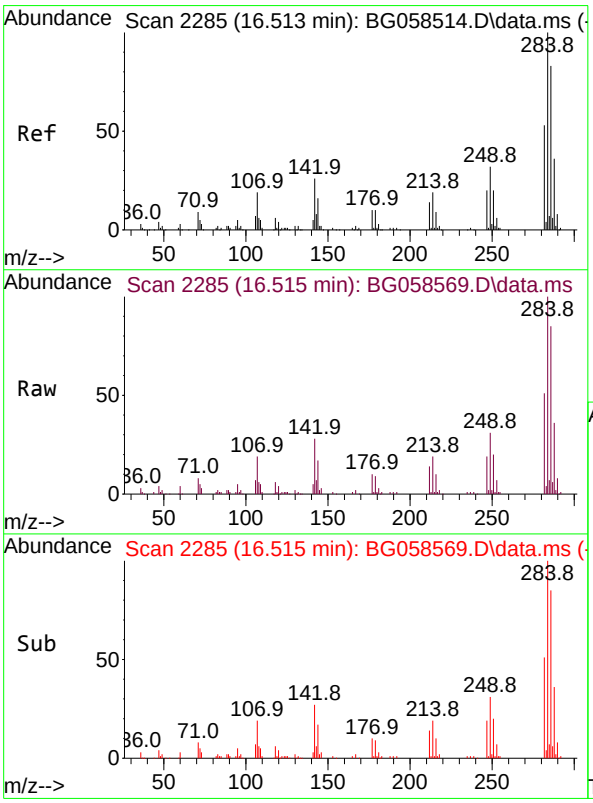
#67
4-Bromophenyl-phenylether
Concen: 35.716 ng
RT: 16.398 min Scan# 2
Delta R.T. 0.003 min
Lab File: BG058569.D
Acq: 2 Aug 2023 8:34

Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Tgt Ion:248 Resp: 126728

Ion	Ratio	Lower	Upper
248	100		
250	94.6	79.5	119.3
141	58.7	48.2	72.2

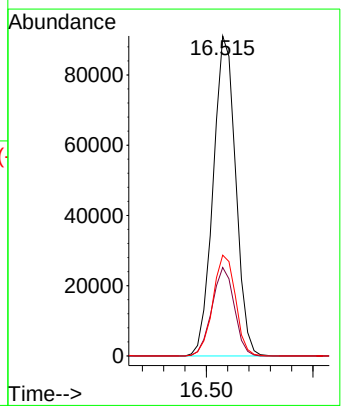


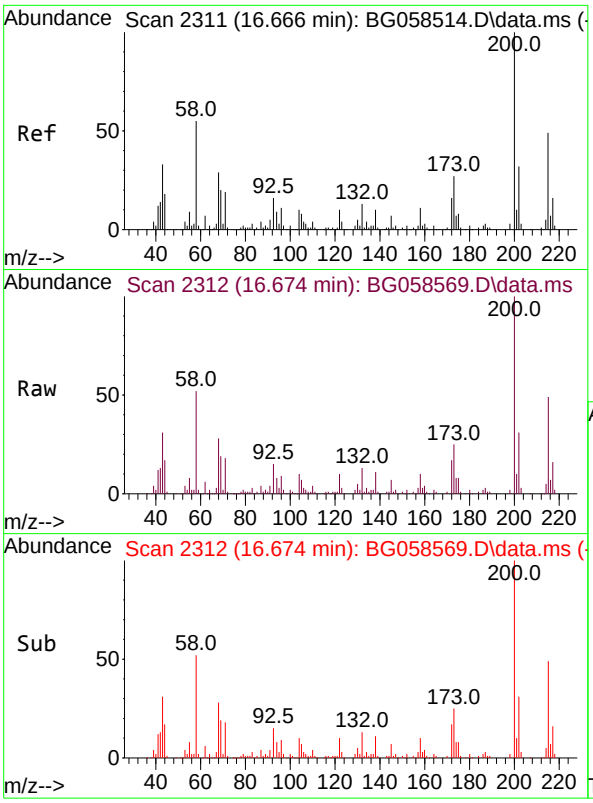


#68
Hexachlorobenzene
Concen: 35.563 ng
RT: 16.515 min Scan# 2285
Delta R.T. 0.003 min
Lab File: BG058569.D
Acq: 2 Aug 2023 8:34

Tgt Ion:284 Resp: 133715

Ion	Ratio	Lower	Upper
284	100		
142	27.6	21.0	31.4
249	31.5	25.5	38.3



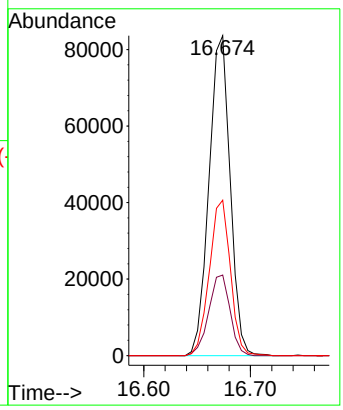


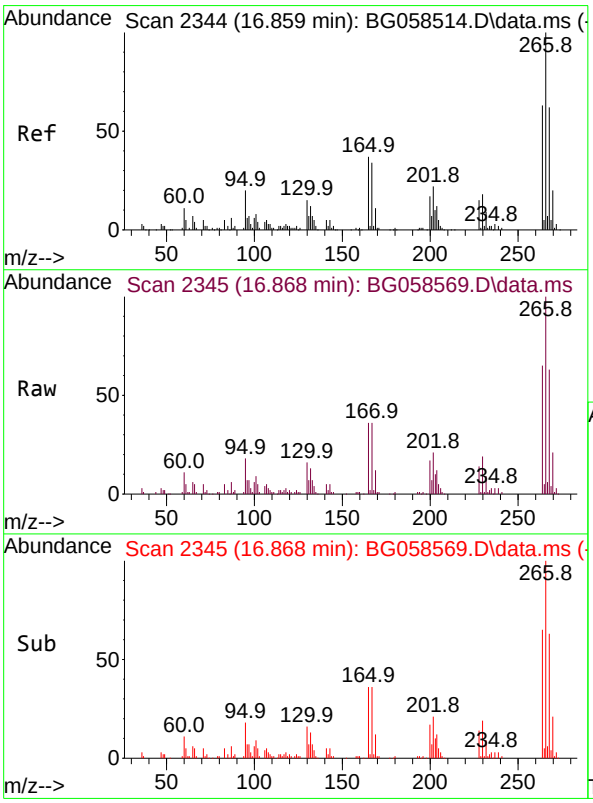
#69
Atrazine
Concen: 42.016 ng
RT: 16.674 min Scan# 2
Delta R.T. 0.008 min
Lab File: BG058569.D
Acq: 2 Aug 2023 8:34

Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Tgt Ion:200 Resp: 115486

Ion	Ratio	Lower	Upper
200	100		
173	25.2	6.5	46.5
215	48.6	28.9	68.9

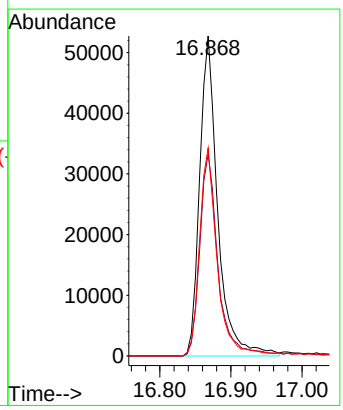


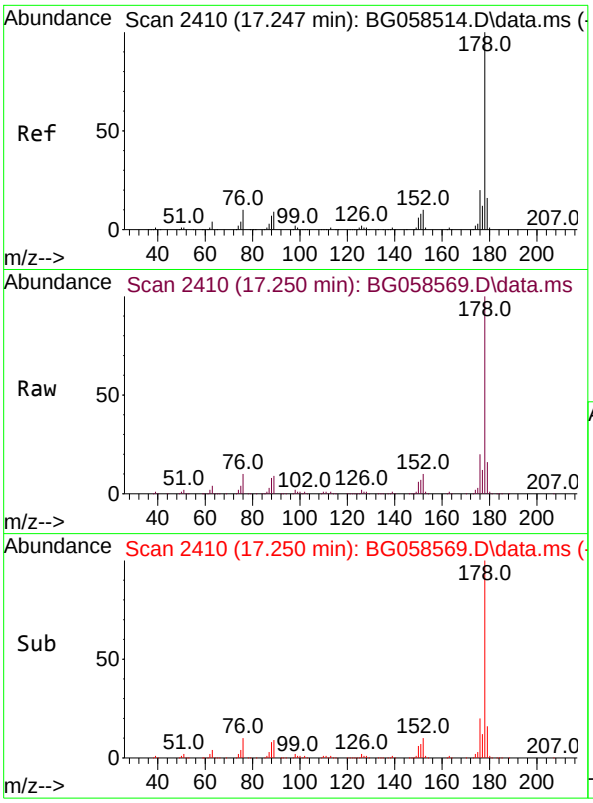


#70
Pentachlorophenol
Concen: 40.778 ng
RT: 16.868 min Scan# 2345
Delta R.T. 0.009 min
Lab File: BG058569.D
Acq: 2 Aug 2023 8:34

Tgt Ion:266 Resp: 92801

Ion	Ratio	Lower	Upper
266	100		
268	63.1	49.9	74.9
264	64.9	50.2	75.4



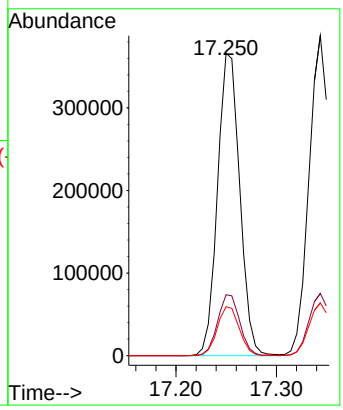


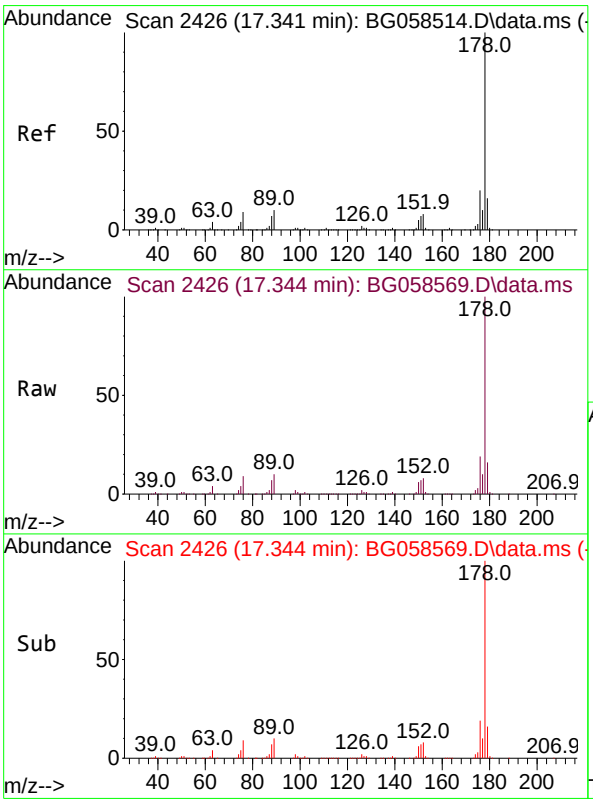
#71
Phenanthrene
Concen: 38.040 ng
RT: 17.250 min Scan# 24
Delta R.T. 0.003 min
Lab File: BG058569.D
Acq: 2 Aug 2023 8:34

Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Tgt Ion:178 Resp: 564366

Ion	Ratio	Lower	Upper
178	100		
176	20.1	16.3	24.5
179	16.2	13.1	19.7

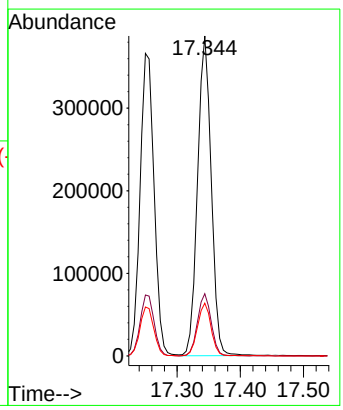


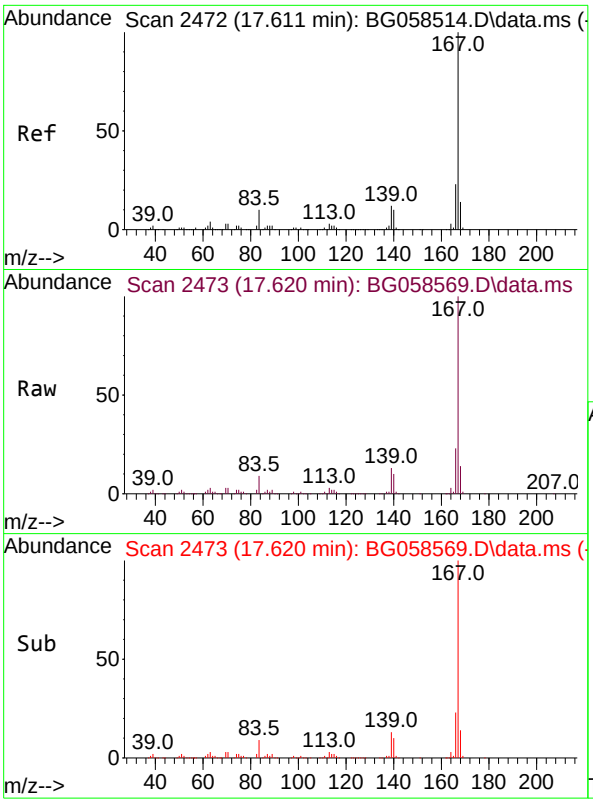


#72
Anthracene
Concen: 38.187 ng
RT: 17.344 min Scan# 2426
Delta R.T. 0.003 min
Lab File: BG058569.D
Acq: 2 Aug 2023 8:34

Tgt Ion:178 Resp: 581313

Ion	Ratio	Lower	Upper
178	100		
176	19.4	16.0	24.0
179	16.5	12.9	19.3



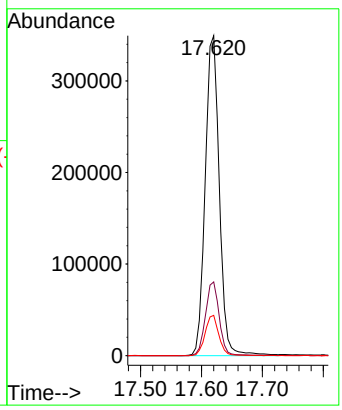


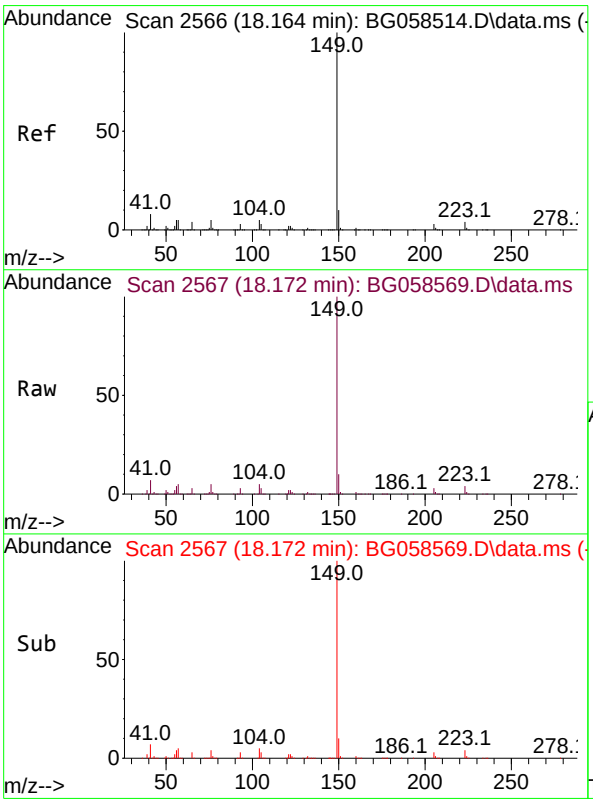
#73
Carbazole
Concen: 41.797 ng
RT: 17.620 min Scan# 24
Delta R.T. 0.008 min
Lab File: BG058569.D
Acq: 2 Aug 2023 8:34

Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Tgt Ion:167 Resp: 561088

Ion	Ratio	Lower	Upper
167	100		
166	23.0	18.4	27.6
139	12.6	10.0	15.0

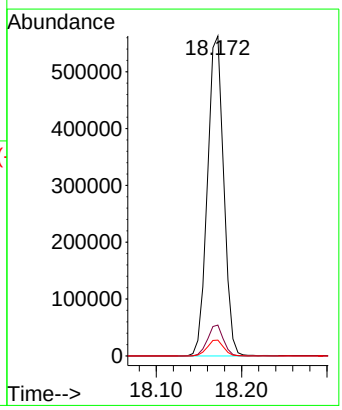


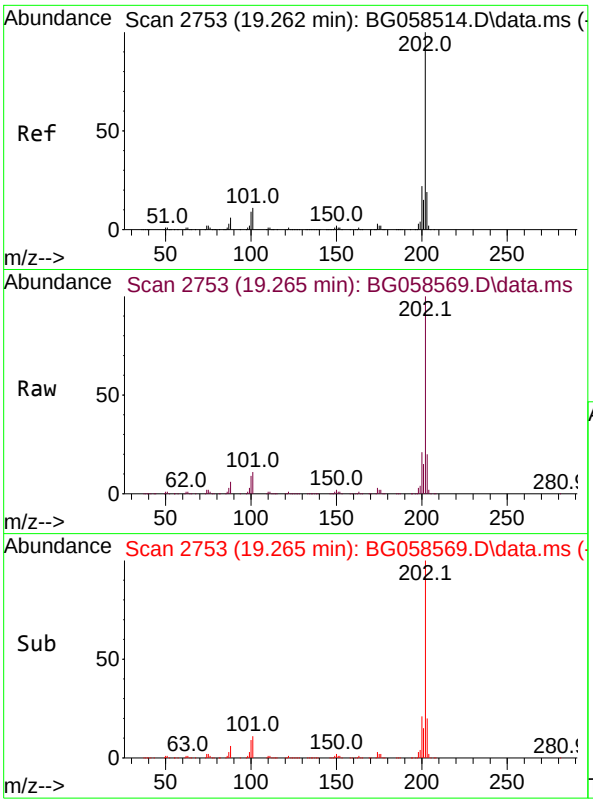


#74
Di-n-butylphthalate
Concen: 44.165 ng
RT: 18.172 min Scan# 2567
Delta R.T. 0.008 min
Lab File: BG058569.D
Acq: 2 Aug 2023 8:34

Tgt Ion:149 Resp: 742597

Ion	Ratio	Lower	Upper
149	100		
150	9.6	7.8	11.6
104	4.9	4.0	6.0



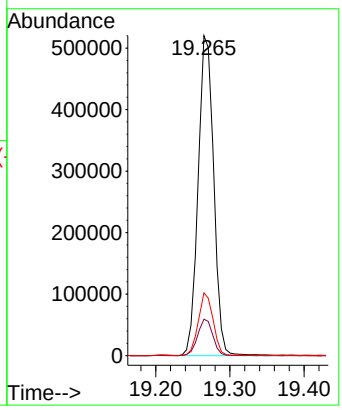


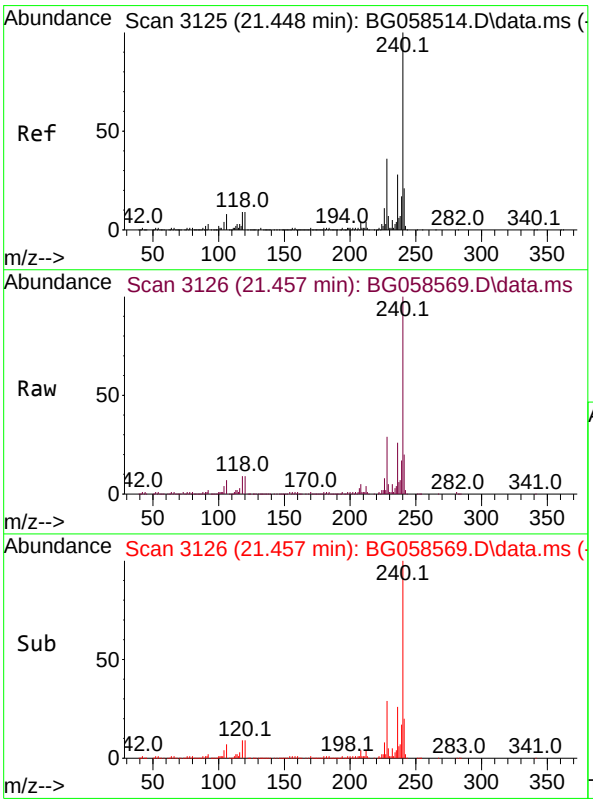
#75
Fluoranthene
Concen: 42.651 ng
RT: 19.265 min Scan# 2
Delta R.T. 0.003 min
Lab File: BG058569.D
Acq: 2 Aug 2023 8:34

Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Tgt Ion:202 Resp: 760103

Ion	Ratio	Lower	Upper
202	100		
101	11.4	0.0	31.4
203	19.6	0.0	39.0

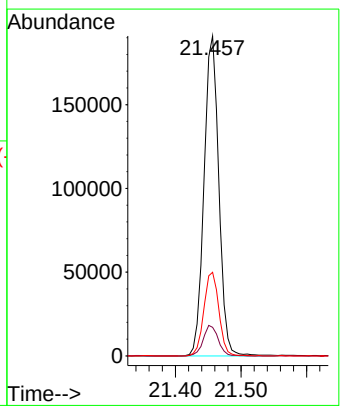


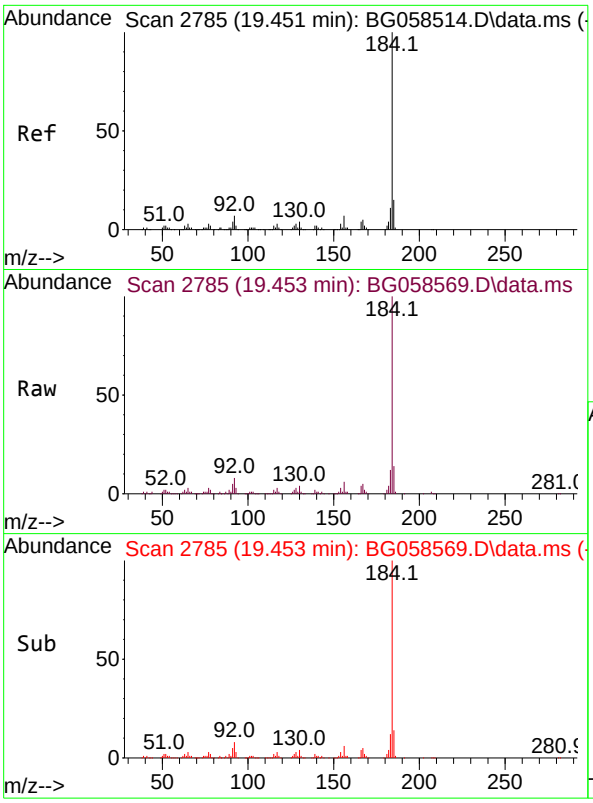


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.457 min Scan# 3126
Delta R.T. 0.008 min
Lab File: BG058569.D
Acq: 2 Aug 2023 8:34

Tgt Ion:240 Resp: 298102

Ion	Ratio	Lower	Upper
240	100		
120	8.9	7.4	11.0
236	26.1	22.2	33.4



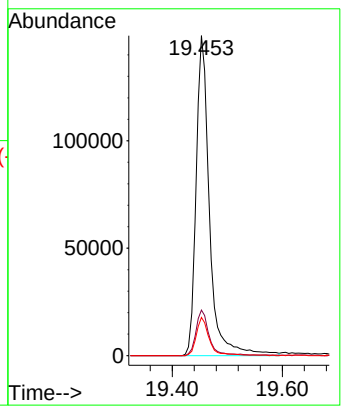


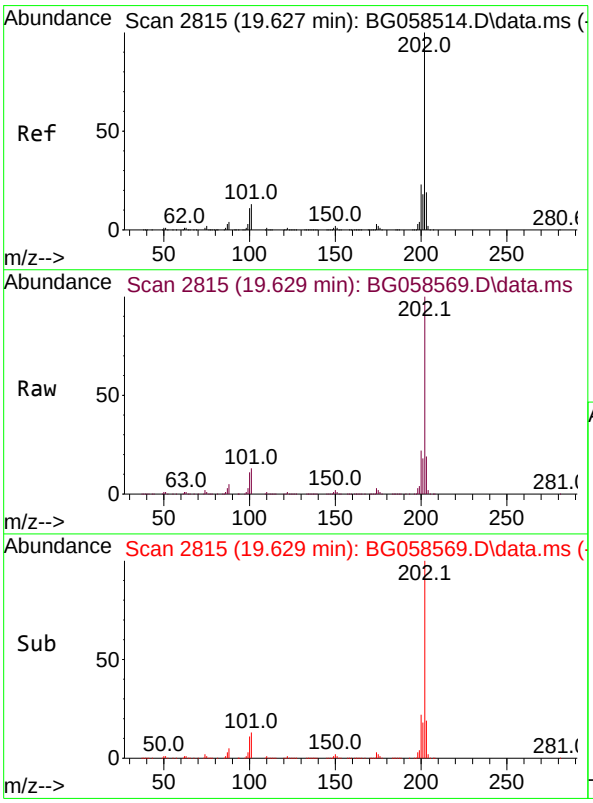
#77
Benzidine
Concen: 55.587 ng
RT: 19.453 min Scan# 2
Delta R.T. 0.003 min
Lab File: BG058569.D
Acq: 2 Aug 2023 8:34

Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Tgt Ion:184 Resp: 251279

Ion	Ratio	Lower	Upper
184	100		
185	14.2	11.9	17.9
183	11.9	8.7	13.1

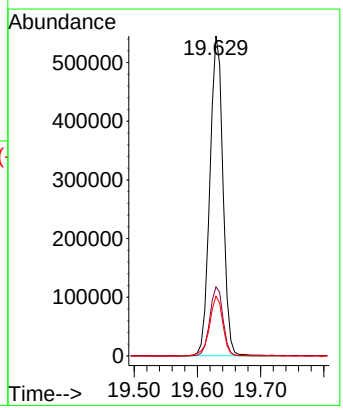


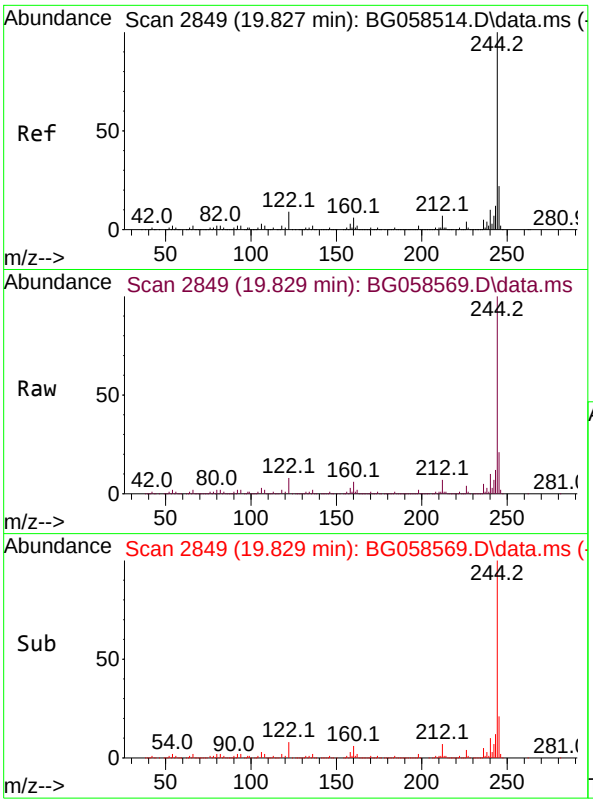


#78
Pyrene
Concen: 38.583 ng
RT: 19.629 min Scan# 2815
Delta R.T. 0.003 min
Lab File: BG058569.D
Acq: 2 Aug 2023 8:34

Tgt Ion:202 Resp: 782752

Ion	Ratio	Lower	Upper
202	100		
200	21.6	18.2	27.2
203	18.7	15.1	22.7



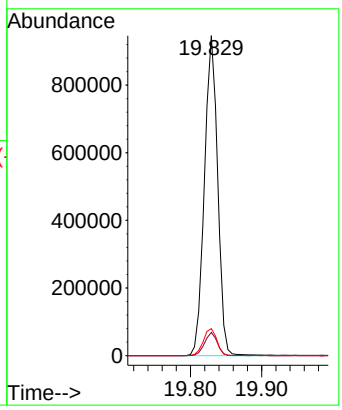


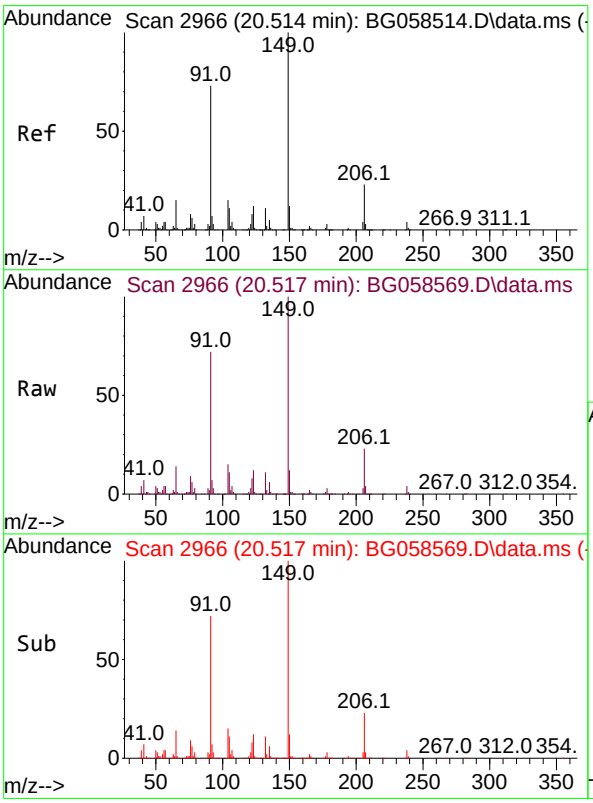
#79
Terphenyl-d14
Concen: 76.835 ng
RT: 19.829 min Scan# 2
Delta R.T. 0.003 min
Lab File: BG058569.D
Acq: 2 Aug 2023 8:34

Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Tgt Ion:244 Resp: 1217990

Ion	Ratio	Lower	Upper
244	100		
212	7.2	5.9	8.9
122	8.4	6.8	10.2

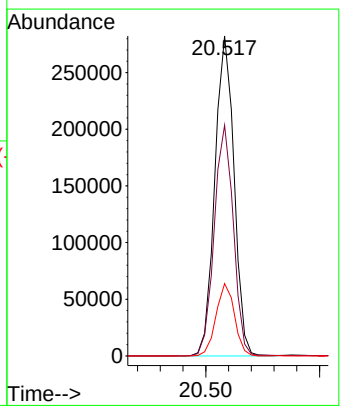


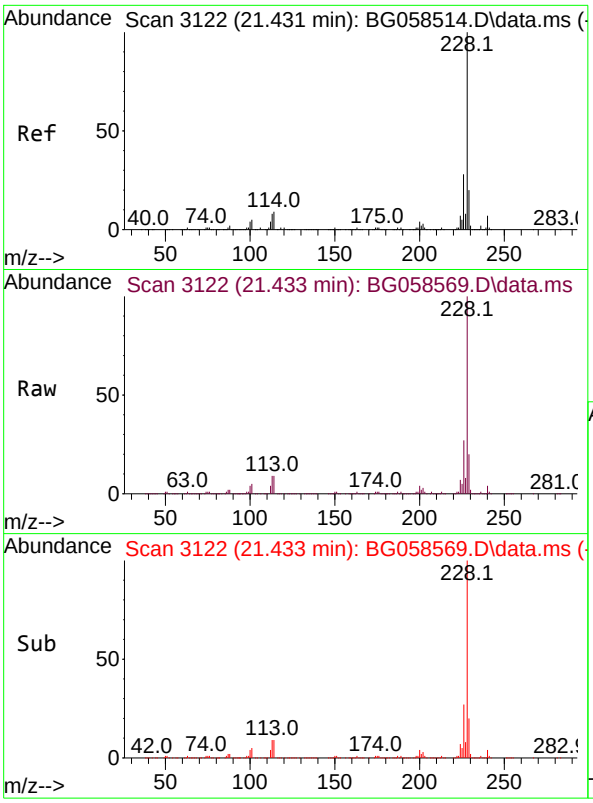


#80
Butylbenzylphthalate
Concen: 39.702 ng
RT: 20.517 min Scan# 2966
Delta R.T. 0.003 min
Lab File: BG058569.D
Acq: 2 Aug 2023 8:34

Tgt Ion:149 Resp: 330846

Ion	Ratio	Lower	Upper
149	100		
91	72.1	58.4	87.6
206	22.6	18.3	27.5



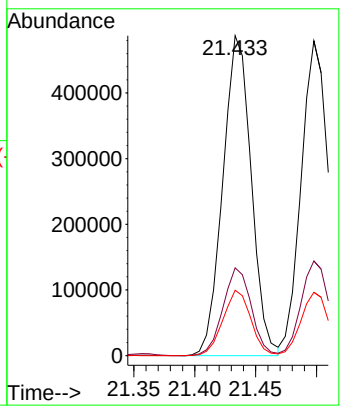


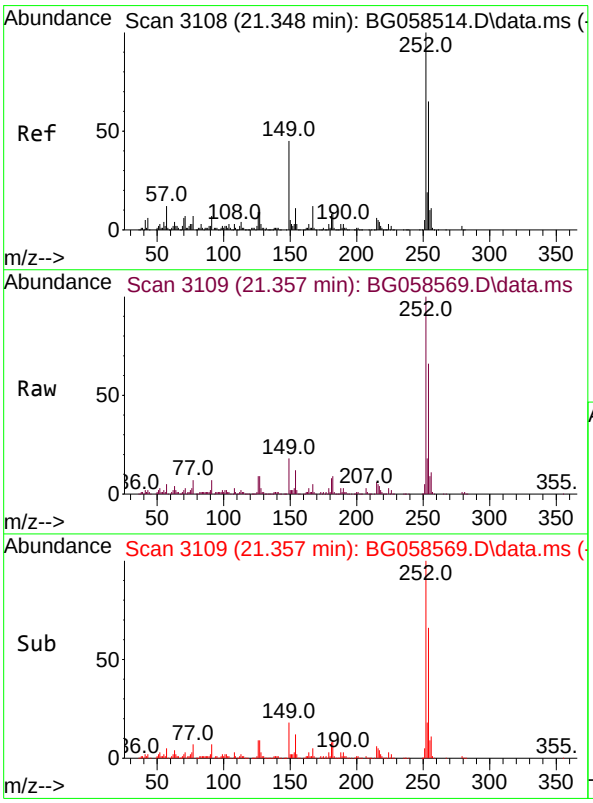
#81
Benzo(a)anthracene
Concen: 38.548 ng
RT: 21.433 min Scan# 31
Delta R.T. 0.003 min
Lab File: BG058569.D
Acq: 2 Aug 2023 8:34

Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Tgt Ion:228 Resp: 790813

Ion	Ratio	Lower	Upper
228	100		
226	27.4	22.6	33.8
229	20.5	16.3	24.5

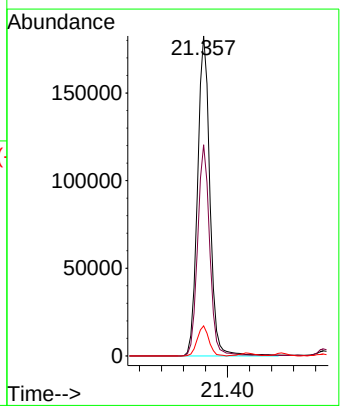


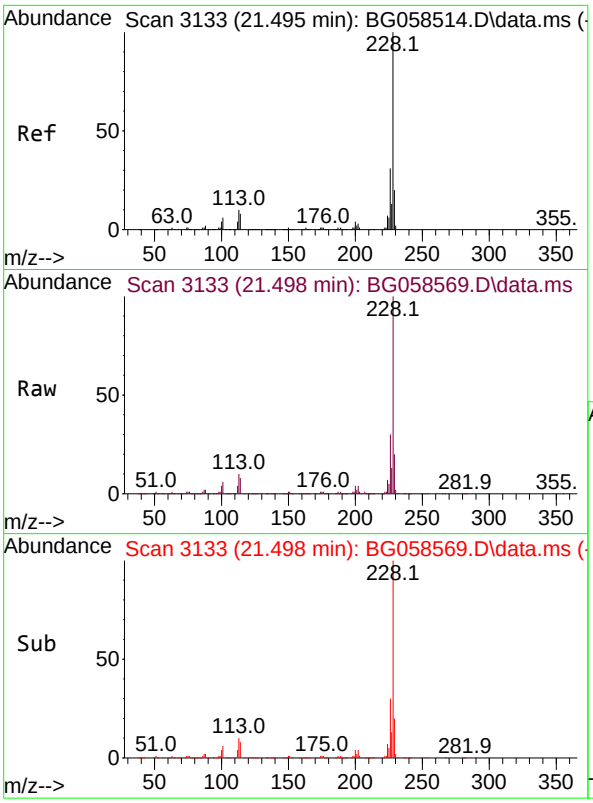


#82
3,3'-Dichlorobenzidine
Concen: 40.829 ng
RT: 21.357 min Scan# 3109
Delta R.T. 0.008 min
Lab File: BG058569.D
Acq: 2 Aug 2023 8:34

Tgt Ion:252 Resp: 283204

Ion	Ratio	Lower	Upper
252	100		
254	66.0	52.2	78.4
126	9.4	7.2	10.8



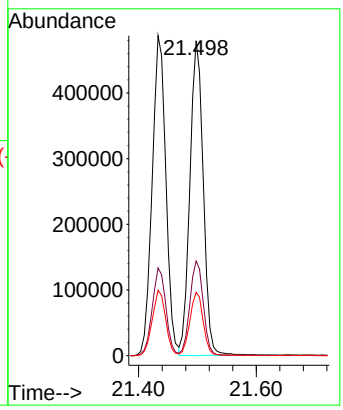


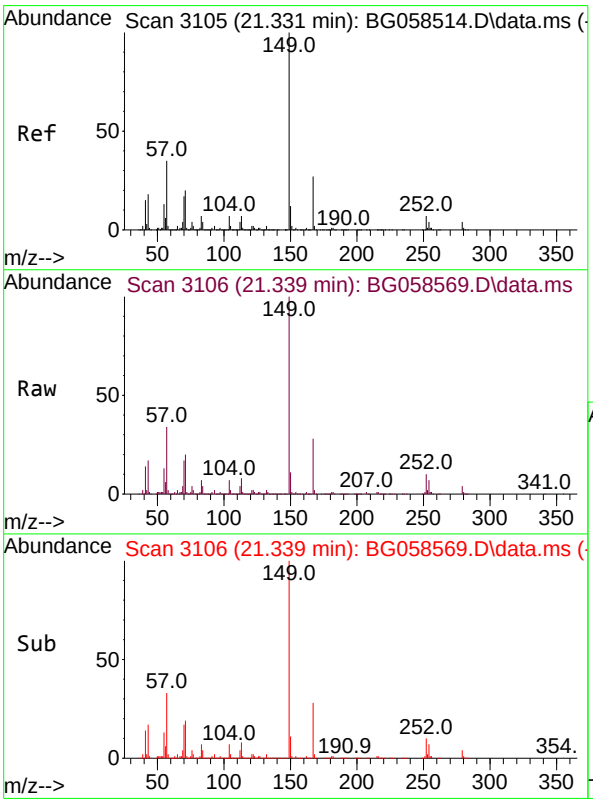
#83
Chrysene
Concen: 38.444 ng
RT: 21.498 min Scan# 31
Delta R.T. 0.003 min
Lab File: BG058569.D
Acq: 2 Aug 2023 8:34

Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Tgt Ion:228 Resp: 756190

Ion	Ratio	Lower	Upper
228	100		
226	30.1	25.0	37.6
229	20.1	16.3	24.5

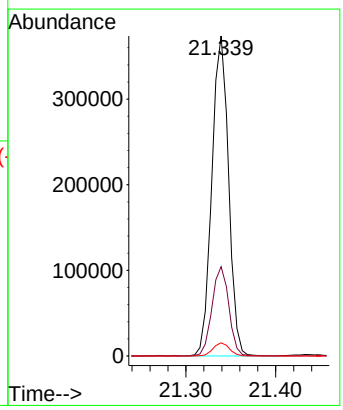


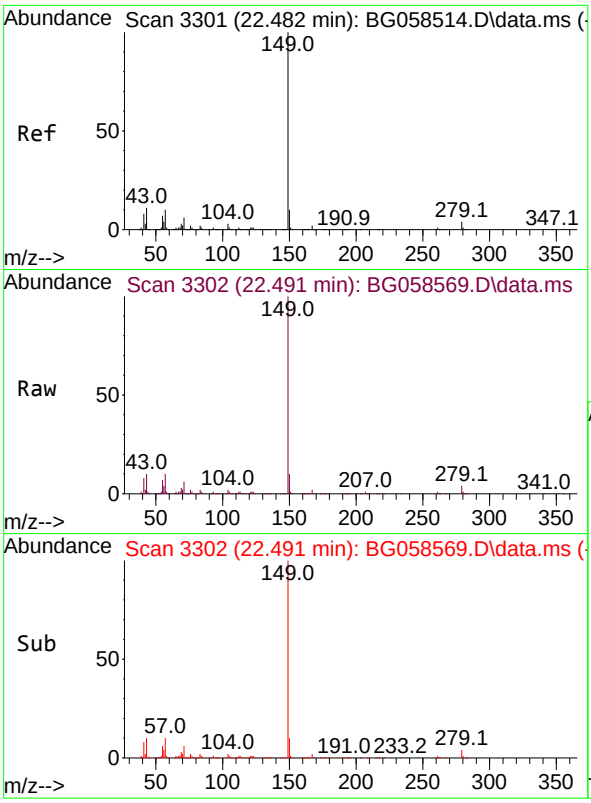


#84
Bis(2-ethylhexyl)phthalate
Concen: 39.658 ng
RT: 21.339 min Scan# 3106
Delta R.T. 0.008 min
Lab File: BG058569.D
Acq: 2 Aug 2023 8:34

Tgt Ion:149 Resp: 482947

Ion	Ratio	Lower	Upper
149	100		
167	27.9	21.8	32.8
279	4.1	2.9	4.3



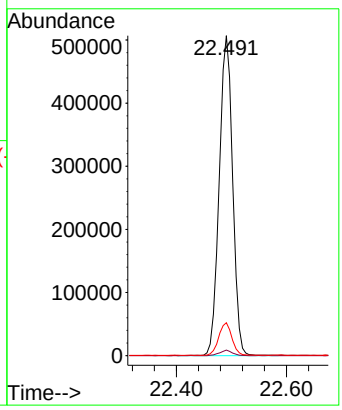


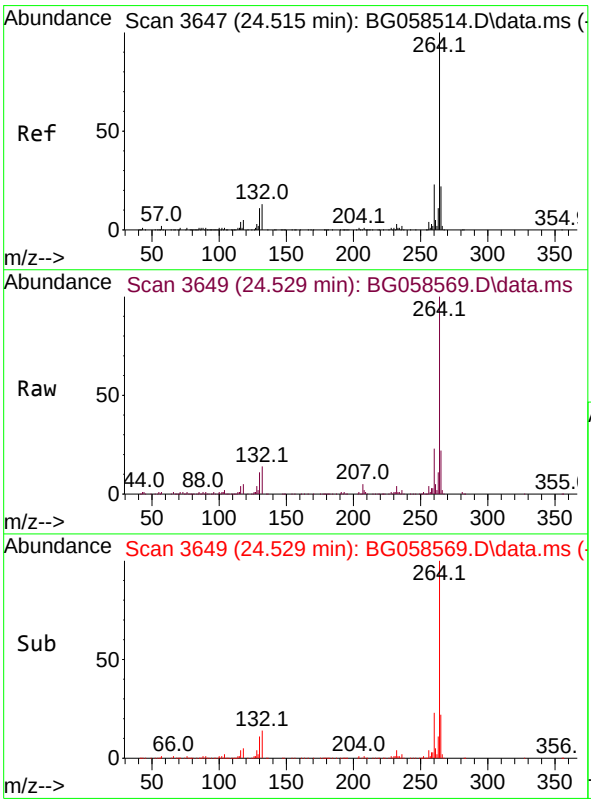
#85
Di-n-octyl phthalate
Concen: 40.033 ng
RT: 22.491 min Scan# 3
Delta R.T. 0.008 min
Lab File: BG058569.D
Acq: 2 Aug 2023 8:34

Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Tgt Ion:149 Resp: 857091

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	10.1	8.2	12.2

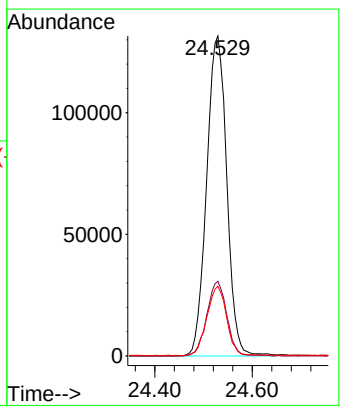


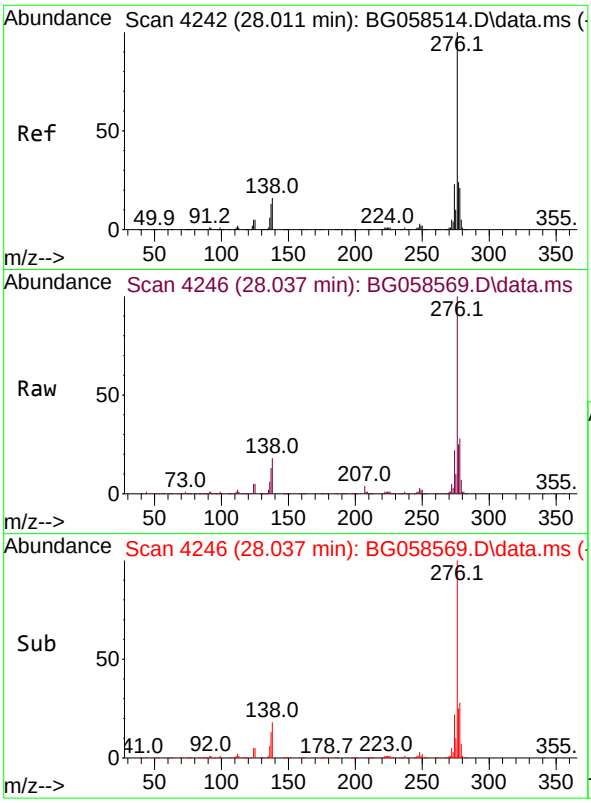


#86
Perylene-d12
Concen: 20.000 ng
RT: 24.529 min Scan# 3649
Delta R.T. 0.014 min
Lab File: BG058569.D
Acq: 2 Aug 2023 8:34

Tgt Ion:264 Resp: 377370

Ion	Ratio	Lower	Upper
264	100		
260	23.3	18.4	27.6
265	21.8	17.9	26.9



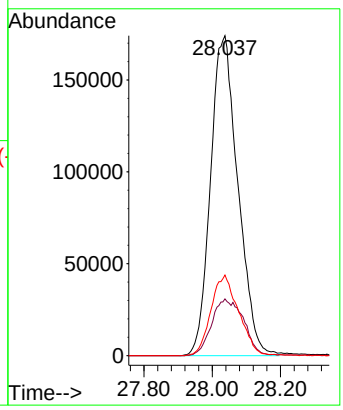


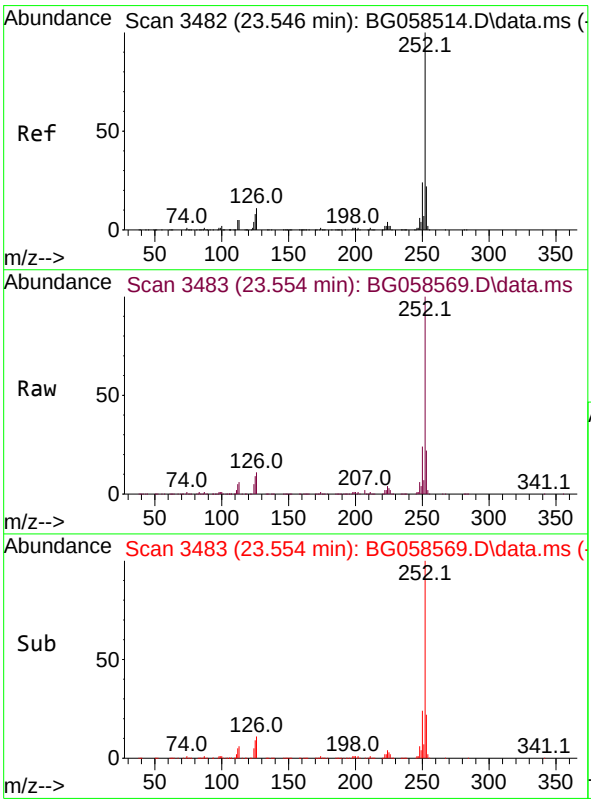
#87
Indeno(1,2,3-cd)pyrene
Concen: 38.656 ng
RT: 28.037 min Scan# 4
Delta R.T. 0.026 min
Lab File: BG058569.D
Acq: 2 Aug 2023 8:34

Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Tgt Ion:276 Resp: 970462

Ion	Ratio	Lower	Upper
276	100		
138	20.5	16.0	24.0
277	25.5	20.4	30.6

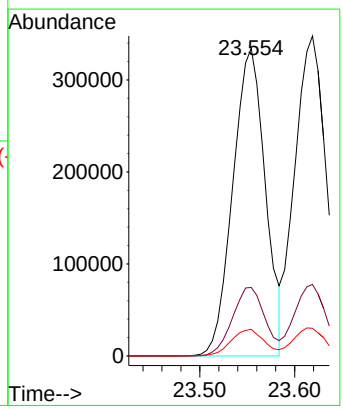


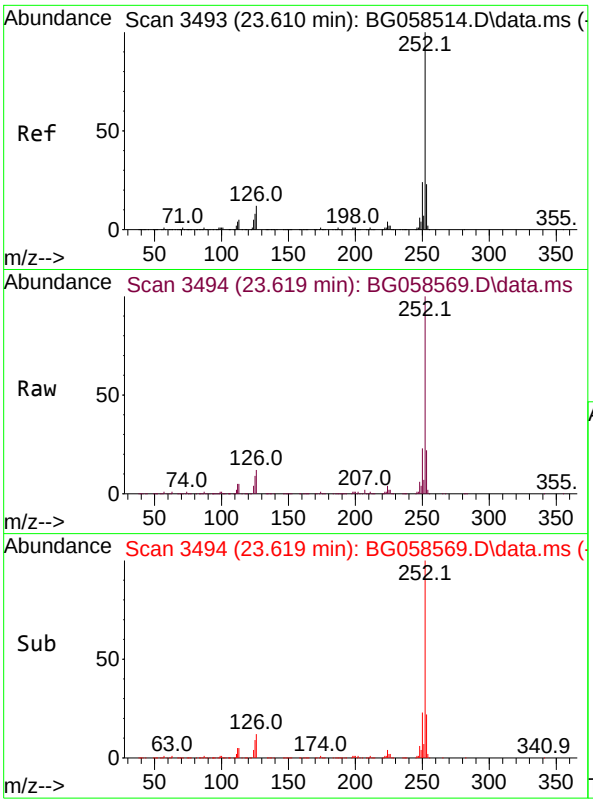


#88
Benzo(b)fluoranthene
Concen: 38.912 ng
RT: 23.554 min Scan# 3483
Delta R.T. 0.008 min
Lab File: BG058569.D
Acq: 2 Aug 2023 8:34

Tgt Ion:252 Resp: 796434

Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.8	26.8
125	8.7	6.6	9.8



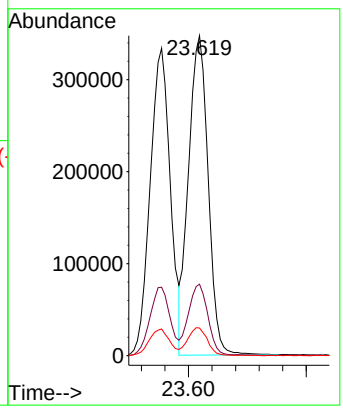


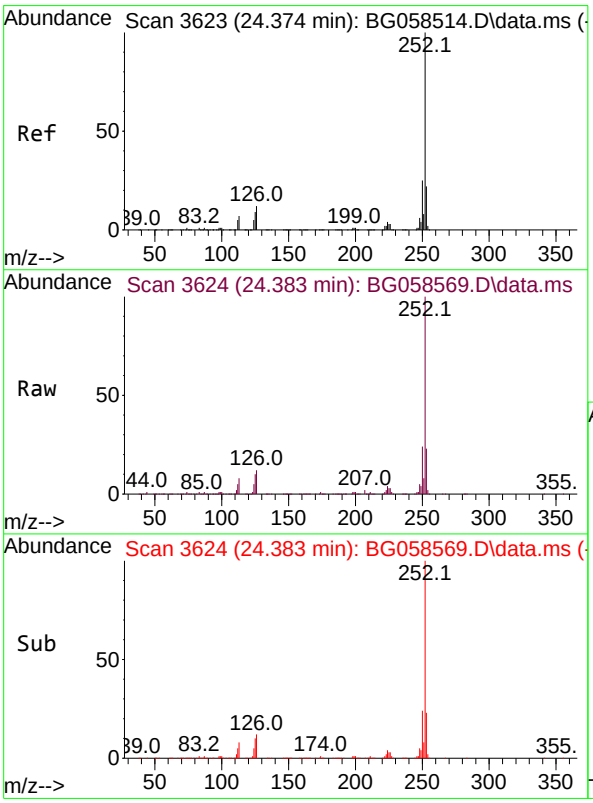
#89
Benzo(k)fluoranthene
Concen: 39.185 ng
RT: 23.619 min Scan# 34
Delta R.T. 0.008 min
Lab File: BG058569.D
Acq: 2 Aug 2023 8:34

Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Tgt Ion:252 Resp: 805706

Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.9	26.9
125	8.7	6.6	10.0

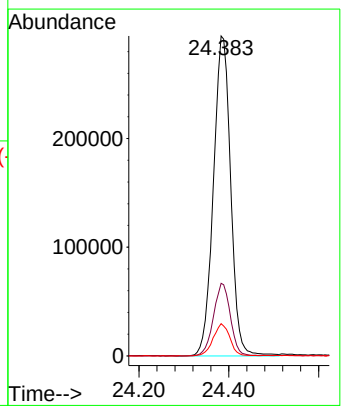


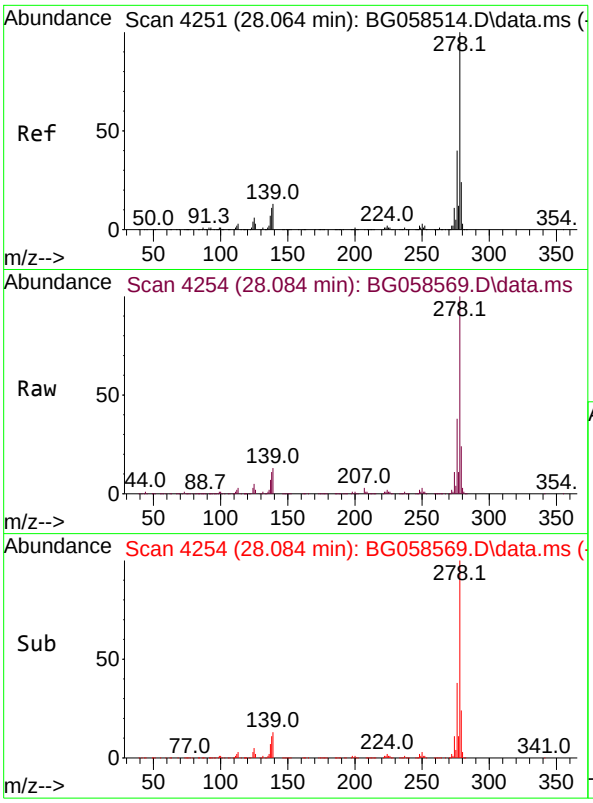


#90
Benzo(a)pyrene
Concen: 39.173 ng
RT: 24.383 min Scan# 3624
Delta R.T. 0.008 min
Lab File: BG058569.D
Acq: 2 Aug 2023 8:34

Tgt Ion:252 Resp: 787408

Ion	Ratio	Lower	Upper
252	100		
253	22.7	17.5	26.3
125	10.1	7.4	11.2



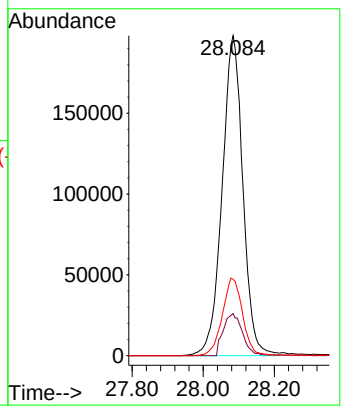


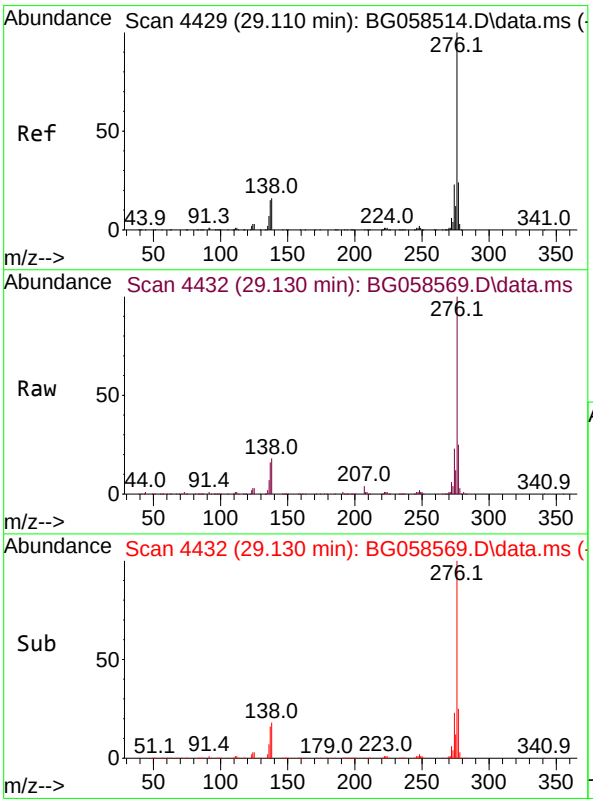
#91
Dibenzo(a,h)anthracene
Concen: 38.713 ng
RT: 28.084 min Scan# 4
Delta R.T. 0.020 min
Lab File: BG058569.D
Acq: 2 Aug 2023 8:34

Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Tgt Ion:278 Resp: 803621

Ion	Ratio	Lower	Upper
278	100		
139	13.1	10.4	15.6
279	23.8	19.0	28.6

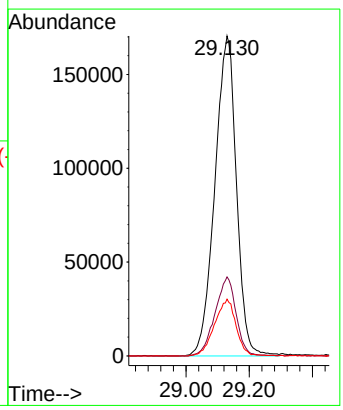




#92
Benzo(g,h,i)perylene
Concen: 38.806 ng
RT: 29.130 min Scan# 4432
Delta R.T. 0.020 min
Lab File: BG058569.D
Acq: 2 Aug 2023 8:34

Tgt Ion:276 Resp: 807782

Ion	Ratio	Lower	Upper
276	100		
277	24.7	18.9	28.3
138	17.7	13.0	19.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG080223\
Data File : BG058569.D
Acq On : 2 Aug 2023 8:34
Operator : MA/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_G
LabSampleId :
SSTDCCC040

Quant Time: Aug 02 09:07:57 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 28 22:29:07 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	20.000	20.000	0.0	69	0.00
2		1,4-Dioxane	40.000	38.935	2.7	68	0.00
3		Pyridine	40.000	39.991	0.0	68	0.00
4		n-Nitrosodimethylamine	40.000	39.383	1.5	68	0.00
5	S	2-Fluorophenol	80.000	80.208	-0.3	69	0.00
6		Aniline	40.000	41.264	-3.2	69	0.00
7	S	Phenol-d6	80.000	81.286	-1.6	69	0.00
8		2-Chlorophenol	40.000	40.683	-1.7	70	0.00
9		Benzaldehyde	40.000	36.649	8.4	66	0.00
10	C	Phenol	40.000	40.554	-1.4	68	0.00
11		bis(2-Chloroethyl)ether	40.000	41.324	-3.3	72	0.00
12		1,3-Dichlorobenzene	40.000	39.116	2.2	68	0.00
13	C	1,4-Dichlorobenzene	40.000	39.366	1.6	68	0.00
14		1,2-Dichlorobenzene	40.000	39.766	0.6	69	0.00
15		Benzyl Alcohol	40.000	42.812	-7.0	69	0.00
16		2,2'-oxybis(1-Chloropropane	40.000	40.205	-0.5	70	0.00
17		2-Methylphenol	40.000	40.077	-0.2	68	0.00
18		Hexachloroethane	40.000	39.379	1.6	68	0.00
19	P	n-Nitroso-di-n-propylamine	40.000	40.805	-2.0	70	0.00
20		3+4-Methylphenols	40.000	41.876	-4.7	69	0.00
21	I	Naphthalene-d8	20.000	20.000	0.0	73	0.00
22		Acetophenone	40.000	39.333	1.7	70	0.00
23	S	Nitrobenzene-d5	80.000	77.817	2.7	70	0.00
24		Nitrobenzene	40.000	38.525	3.7	69	0.00
25		Isophorone	40.000	38.808	3.0	70	0.00
26	C	2-Nitrophenol	40.000	38.520	3.7	67	0.00
27		2,4-Dimethylphenol	40.000	39.658	0.9	70	0.00
28		bis(2-Chloroethoxy)methane	40.000	39.225	1.9	69	0.00
29	C	2,4-Dichlorophenol	40.000	38.741	3.1	68	0.00
30		1,2,4-Trichlorobenzene	40.000	38.717	3.2	70	0.00
31		Naphthalene	40.000	38.560	3.6	70	0.00
32		Benzoic acid	40.000	37.591	6.0	65	0.00
33		4-Chloroaniline	40.000	40.671	-1.7	70	0.00
34	C	Hexachlorobutadiene	40.000	37.544	6.1	68	0.00
35		Caprolactam	40.000	43.796	-9.5	77	0.00
36	C	4-Chloro-3-methylphenol	40.000	38.677	3.3	68	0.00
37		2-Methylnaphthalene	40.000	38.239	4.4	69	0.00
38		1-Methylnaphthalene	40.000	38.407	4.0	70	0.00
39	I	Acenaphthene-d10	20.000	20.000	0.0	74	0.00
40		1,2,4,5-Tetrachlorobenzene	40.000	37.566	6.1	69	0.00
41	P	Hexachlorocyclopentadiene	40.000	34.086	14.8	63	0.00
42	S	2,4,6-Tribromophenol	80.000	79.789	0.3	72	0.00
43	C	2,4,6-Trichlorophenol	40.000	38.057	4.9	68	0.00
44		2,4,5-Trichlorophenol	40.000	37.762	5.6	69	0.00
45	S	2-Fluorobiphenyl	80.000	76.110	4.9	71	0.00
46		1,1'-Biphenyl	40.000	37.984	5.0	70	0.00
47		2-Chloronaphthalene	40.000	37.861	5.3	70	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG080223\
Data File : BG058569.D
Acq On : 2 Aug 2023 8:34
Operator : MA/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_G
LabSampleId :
SSTDCCC040

Quant Time: Aug 02 09:07:57 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 28 22:29:07 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
48		2-Nitroaniline	40.000	39.788	0.5	70	0.00
49		Acenaphthylene	40.000	38.360	4.1	70	0.00
50		Dimethylphthalate	40.000	39.651	0.9	73	0.00
51		2,6-Dinitrotoluene	40.000	39.571	1.1	72	0.00
52	C	Acenaphthene	40.000	38.494	3.8	71	0.00
53		3-Nitroaniline	40.000	43.092	-7.7	75	0.00
54	P	2,4-Dinitrophenol	40.000	40.894	-2.2	77	0.00
55		Dibenzofuran	40.000	38.647	3.4	71	0.00
56	P	4-Nitrophenol	40.000	44.081	-10.2	78	0.00
57		2,4-Dinitrotoluene	40.000	42.396	-6.0	75	0.00
58		Fluorene	40.000	39.177	2.1	73	0.00
59		2,3,4,6-Tetrachlorophenol	40.000	38.707	3.2	70	0.00
60		Diethylphthalate	40.000	41.987	-5.0	77	0.00
61		4-Chlorophenyl-phenylether	40.000	38.622	3.4	72	0.00
62		4-Nitroaniline	40.000	48.744	-21.9	83	0.00
63		Azobenzene	40.000	39.908	0.2	73	0.00
64	I	Phenanthrene-d10	20.000	20.000	0.0	82	0.00
65		4,6-Dinitro-2-methylphenol	40.000	41.830	-4.6	80	0.00
66	c	n-Nitrosodiphenylamine	40.000	36.578	8.6	74	0.00
67		4-Bromophenyl-phenylether	40.000	35.716	10.7	73	0.00
68		Hexachlorobenzene	40.000	35.563	11.1	73	0.00
69		Atrazine	40.000	42.016	-5.0	85	0.00
70	C	Pentachlorophenol	40.000	40.778	-1.9	78	0.00
71		Phenanthrene	40.000	38.040	4.9	78	0.00
72		Anthracene	40.000	38.187	4.5	78	0.00
73		Carbazole	40.000	41.797	-4.5	83	0.00
74		Di-n-butylphthalate	40.000	44.165	-10.4	88	0.00
75	C	Fluoranthene	40.000	42.651	-6.6	86	0.00
76	I	Chrysene-d12	20.000	20.000	0.0	90	0.00
77		Benzidine	40.000	55.587	-39.0#	102	0.00
78		Pyrene	40.000	38.583	3.5	87	0.00
79	S	Terphenyl-d14	80.000	76.835	4.0	87	0.00
80		Butylbenzylphthalate	40.000	39.702	0.7	87	0.00
81		Benzo(a)anthracene	40.000	38.548	3.6	86	0.00
82		3,3'-Dichlorobenzidine	40.000	40.829	-2.1	89	0.00
83		Chrysene	40.000	38.444	3.9	86	0.00
84		Bis(2-ethylhexyl)phthalate	40.000	39.658	0.9	88	0.00
85	c	Di-n-octyl phthalate	40.000	40.033	-0.1	88	0.00
86	I	Perylene-d12	20.000	20.000	0.0	89	0.01
87		Indeno(1,2,3-cd)pyrene	40.000	38.656	3.4	84	0.03
88		Benzo(b)fluoranthene	40.000	38.912	2.7	84	0.00
89		Benzo(k)fluoranthene	40.000	39.185	2.0	87	0.00
90	C	Benzo(a)pyrene	40.000	39.173	2.1	86	0.00
91		Dibenzo(a,h)anthracene	40.000	38.713	3.2	84	0.02
92		Benzo(g,h,i)perylene	40.000	38.806	3.0	85	0.02

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG080223\
Data File : BG058569.D
Acq On : 2 Aug 2023 8:34
Operator : MA/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_G
LabSampleId :
SSTDCCC040

Quant Time: Aug 02 09:07:57 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 28 22:29:07 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG080223\
Data File : BG058569.D
Acq On : 2 Aug 2023 8:34
Operator : MA/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_G
LabSampleId :
SSTDCCC040

Quant Time: Aug 02 09:07:57 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 28 22:29:07 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	69	0.00
2		1,4-Dioxane	0.634	0.617	2.7	68	0.00
3		Pyridine	1.729	1.728	0.1	68	0.00
4		n-Nitrosodimethylamine	0.732	0.721	1.5	68	0.00
5	S	2-Fluorophenol	1.309	1.312	-0.2	69	0.00
6		Aniline	2.242	2.313	-3.2	69	0.00
7	S	Phenol-d6	1.821	1.850	-1.6	69	0.00
8		2-Chlorophenol	1.284	1.306	-1.7	70	0.00
9		Benzaldehyde	0.989	0.906	8.4	66	0.00
10	C	Phenol	1.779	1.803	-1.3	68	0.00
11		bis(2-Chloroethyl)ether	1.402	1.449	-3.4	72	0.00
12		1,3-Dichlorobenzene	1.371	1.340	2.3	68	0.00
13	C	1,4-Dichlorobenzene	1.376	1.355	1.5	68	0.00
14		1,2-Dichlorobenzene	1.316	1.308	0.6	69	0.00
15		Benzyl Alcohol	1.155	1.236	-7.0	69	0.00
16		2,2'-oxybis(1-Chloropropane	2.278	2.289	-0.5	70	0.00
17		2-Methylphenol	1.300	1.303	-0.2	68	0.00
18		Hexachloroethane	0.500	0.492	1.6	68	0.00
19	P	n-Nitroso-di-n-propylamine	1.176	1.200	-2.0	70	0.00
20		3+4-Methylphenols	1.759	1.842	-4.7	69	0.00
21	I	Naphthalene-d8	1.000	1.000	0.0	73	0.00
22		Acetophenone	0.536	0.527	1.7	70	0.00
23	S	Nitrobenzene-d5	0.407	0.396	2.7	70	0.00
24		Nitrobenzene	0.414	0.399	3.6	69	0.00
25		Isophorone	0.841	0.816	3.0	70	0.00
26	C	2-Nitrophenol	0.180	0.173	3.9	67	0.00
27		2,4-Dimethylphenol	0.299	0.296	1.0	70	0.00
28		bis(2-Chloroethoxy)methane	0.458	0.449	2.0	69	0.00
29	C	2,4-Dichlorophenol	0.310	0.301	2.9	68	0.00
30		1,2,4-Trichlorobenzene	0.358	0.346	3.4	70	0.00
31		Naphthalene	1.054	1.016	3.6	70	0.00
32		Benzoic acid	0.207	0.208	-0.5	65	0.00
33		4-Chloroaniline	0.445	0.453	-1.8	70	0.00
34	C	Hexachlorobutadiene	0.230	0.216	6.1	68	0.00
35		Caprolactam	0.115	0.125	-8.7	77	0.00
36	C	4-Chloro-3-methylphenol	0.384	0.371	3.4	68	0.00
37		2-Methylnaphthalene	0.754	0.721	4.4	69	0.00
38		1-Methylnaphthalene	0.717	0.688	4.0	70	0.00
39	I	Acenaphthene-d10	1.000	1.000	0.0	74	0.00
40		1,2,4,5-Tetrachlorobenzene	0.614	0.577	6.0	69	0.00
41	P	Hexachlorocyclopentadiene	0.236	0.213	9.7	63	0.00
42	S	2,4,6-Tribromophenol	0.328	0.327	0.3	72	0.00
43	C	2,4,6-Trichlorophenol	0.422	0.402	4.7	68	0.00
44		2,4,5-Trichlorophenol	0.497	0.470	5.4	69	0.00
45	S	2-Fluorobiphenyl	1.335	1.270	4.9	71	0.00
46		1,1'-Biphenyl	1.374	1.304	5.1	70	0.00
47		2-Chloronaphthalene	1.071	1.014	5.3	70	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG080223\
Data File : BG058569.D
Acq On : 2 Aug 2023 8:34
Operator : MA/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_G
LabSampleId :
SSTDCCC040

Quant Time: Aug 02 09:07:57 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 28 22:29:07 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
48		2-Nitroaniline	0.409	0.407	0.5	70	0.00
49		Acenaphthylene	1.793	1.719	4.1	70	0.00
50		Dimethylphthalate	1.502	1.489	0.9	73	0.00
51		2,6-Dinitrotoluene	0.330	0.326	1.2	72	0.00
52	C	Acenaphthene	1.036	0.997	3.8	71	0.00
53		3-Nitroaniline	0.330	0.355	-7.6	75	0.00
54	P	2,4-Dinitrophenol	0.150	0.171	-14.0	77	0.00
55		Dibenzofuran	1.780	1.720	3.4	71	0.00
56	P	4-Nitrophenol	0.222	0.260	-17.1	78	0.00
57		2,4-Dinitrotoluene	0.457	0.484	-5.9	75	0.00
58		Fluorene	1.414	1.385	2.1	73	0.00
59		2,3,4,6-Tetrachlorophenol	0.424	0.411	3.1	70	0.00
60		Diethylphthalate	1.530	1.606	-5.0	77	0.00
61		4-Chlorophenyl-phenylether	0.788	0.761	3.4	72	0.00
62		4-Nitroaniline	0.312	0.381	-22.1	83	0.00
63		Azobenzene	1.507	1.504	0.2	73	0.00
64	I	Phenanthrene-d10	1.000	1.000	0.0	82	0.00
65		4,6-Dinitro-2-methylphenol	0.110	0.115	-4.5	80	0.00
66	c	n-Nitrosodiphenylamine	0.521	0.476	8.6	74	0.00
67		4-Bromophenyl-phenylether	0.227	0.203	10.6	73	0.00
68		Hexachlorobenzene	0.240	0.214	10.8	73	0.00
69		Atrazine	0.176	0.185	-5.1	85	0.00
70	C	Pentachlorophenol	0.145	0.148	-2.1	78	0.00
71		Phenanthrene	0.948	0.902	4.9	78	0.00
72		Anthracene	0.973	0.929	4.5	78	0.00
73		Carbazole	0.858	0.897	-4.5	83	0.00
74		Di-n-butylphthalate	1.075	1.187	-10.4	88	0.00
75	C	Fluoranthene	1.139	1.215	-6.7	86	0.00
76	I	Chrysene-d12	1.000	1.000	0.0	90	0.00
77		Benzidine	0.303	0.421	-38.9#	102	0.00
78		Pyrene	1.361	1.313	3.5	87	0.00
79	S	Terphenyl-d14	1.064	1.021	4.0	87	0.00
80		Butylbenzylphthalate	0.559	0.555	0.7	87	0.00
81		Benzo(a)anthracene	1.376	1.326	3.6	86	0.00
82		3,3'-Dichlorobenzidine	0.465	0.475	-2.2	89	0.00
83		Chrysene	1.320	1.268	3.9	86	0.00
84		Bis(2-ethylhexyl)phthalate	0.817	0.810	0.9	88	0.00
85	c	Di-n-octyl phthalate	1.436	1.438	-0.1	88	0.00
86	I	Perylene-d12	1.000	1.000	0.0	89	0.01
87		Indeno(1,2,3-cd)pyrene	1.331	1.286	3.4	84	0.03
88		Benzo(b)fluoranthene	1.085	1.055	2.8	84	0.00
89		Benzo(k)fluoranthene	1.090	1.068	2.0	87	0.00
90	C	Benzo(a)pyrene	1.065	1.043	2.1	86	0.00
91		Dibenzo(a,h)anthracene	1.100	1.065	3.2	84	0.02
92		Benzo(g,h,i)perylene	1.103	1.070	3.0	85	0.02

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG080223\
Data File : BG058569.D
Acq On : 2 Aug 2023 8:34
Operator : MA/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_G
LabSampleId :
SSTDCCC040

Quant Time: Aug 02 09:07:57 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 28 22:29:07 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)

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

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM Case No.: O3645 SAS No.: O3645 SDG No.: O3645

Instrument ID: BNA_M Calibration Date/Time: 07/28/2023 17:11

Lab File ID: BM041169.D Init. Calib. Date(s): 07/28/2023 07/28/2023

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 10:14 14:38

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.338	1.473		10.1	
Benzaldehyde	0.915	0.956		4.5	
Phenol-d6	1.735	1.969		13.5	
Phenol	1.675	1.893		13.0	20.0
bis(2-Chloroethyl)ether	1.356	1.497		10.4	
2-Chlorophenol	1.306	1.465		12.2	
2-Methylphenol	1.145	1.312		14.6	
2,2-oxybis(1-Chloropropane)	1.807	2.013		11.4	
Acetophenone	0.530	0.592		11.7	
3+4-Methylphenols	1.530	1.775		16.0	
n-Nitroso-di-n-propylamine	1.054	1.222	0.050	15.9	
Nitrobenzene-d5	0.430	0.486		13.0	
Hexachloroethane	0.532	0.597		12.2	
Nitrobenzene	0.435	0.489		12.4	
Isophorone	0.730	0.825		13.0	
2-Nitrophenol	0.170	0.197		15.9	20.0
2,4-Dimethylphenol	0.299	0.342		14.4	
bis(2-Chloroethoxy)methane	0.457	0.513		12.3	
2,4-Dichlorophenol	0.302	0.342		13.2	20.0
Naphthalene	1.085	1.202		10.8	
4-Chloroaniline	0.434	0.501		15.4	
Hexachlorobutadiene	0.200	0.217		8.5	20.0
Caprolactam	0.087	0.100		14.9	
4-Chloro-3-methylphenol	0.318	0.363		14.2	20.0
2-Methylnaphthalene	0.732	0.823		12.4	
Hexachlorocyclopentadiene	0.344	0.375	0.050	9.0	
2,4,6-Trichlorophenol	0.416	0.471		13.2	20.0
2-Fluorobiphenyl	1.583	1.760		11.2	
2,4,5-Trichlorophenol	0.482	0.545		13.1	
1,1-Biphenyl	1.621	1.805		11.4	
2-Chloronaphthalene	1.211	1.351		11.6	
2-Nitroaniline	0.386	0.456		18.1	
Dimethylphthalate	1.504	1.658		10.2	
Acenaphthylene	1.954	2.210		13.1	
2,6-Dinitrotoluene	0.312	0.357		14.4	
3-Nitroaniline	0.326	0.388		19.0	
Acenaphthene	1.177	1.313		11.6	20.0
2,4-Dinitrophenol	0.180	0.200	0.050	11.1	
4-Nitrophenol	0.260	0.298	0.050	14.6	
Dibenzofuran	1.921	2.131		10.9	
2,4-Dinitrotoluene	0.402	0.472		17.4	

Form VII SV-1

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM Case No.: O3645 SAS No.: O3645 SDG No.: O3645

Instrument ID: BNA_M Calibration Date/Time: 07/28/2023 17:11

Lab File ID: BM041169.D Init. Calib. Date(s): 07/28/2023 07/28/2023

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 10:14 14:38

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Diethylphthalate	1.455	1.612		10.8	
4-Chlorophenyl-phenylether	0.759	0.848		11.7	
Fluorene	1.515	1.702		12.3	
4-Nitroaniline	0.284	0.351		23.6	
4,6-Dinitro-2-methylphenol	0.121	0.136		12.4	
n-Nitrosodiphenylamine	0.622	0.705		13.3	20.0
2,4,6-Tribromophenol	0.283	0.325		14.8	
4-Bromophenyl-phenylether	0.219	0.246		12.3	
Hexachlorobenzene	0.244	0.270		10.7	
Atrazine	0.163	0.193		18.4	
Pentachlorophenol	0.169	0.198		17.2	20.0
Phenanthrene	1.111	1.236		11.3	
Anthracene	1.099	1.247		13.5	
Carbazole	0.995	1.132		13.8	
Di-n-butylphthalate	1.124	1.267		12.7	
Fluoranthene	1.248	1.402		12.3	20.0
Pyrene	1.399	1.564		11.8	
Terphenyl-d14	1.106	1.248		12.8	
Butylbenzylphthalate	0.511	0.585		14.5	
3,3-Dichlorobenzidine	0.442	0.511		15.6	
Benzo(a)anthracene	1.356	1.530		12.8	
Chrysene	1.311	1.463		11.6	
Bis(2-ethylhexyl)phthalate	0.730	0.825		13.0	
Di-n-octyl phthalate	1.291	1.384		7.2	20.0
Benzo(b)fluoranthene	1.188	1.346		13.3	
Benzo(k)fluoranthene	1.215	1.349		11.0	
Benzo(a)pyrene	1.142	1.294		13.3	20.0
Indeno(1,2,3-cd)pyrene	1.470	1.676		13.9	
Dibenzo(a,h)anthracene	1.226	1.393		13.6	
Benzo(g,h,i)perylene	1.200	1.367		13.9	
1,2,4,5-Tetrachlorobenzene	0.649	0.711		9.6	
1,4-Dioxane	0.572	0.618		8.0	20.0
2,3,4,6-Tetrachlorophenol	0.390	0.439		12.6	

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM072823\
Data File : BM041169.D
Acq On : 28 Jul 2023 17:11
Operator : MA/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 29 01:16:48 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Jul 29 00:19:24 2023
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.804	152	155350	20.000	ng	0.00
21) Naphthalene-d8	10.616	136	581542	20.000	ng	0.00
39) Acenaphthene-d10	14.469	164	321278	20.000	ng	0.00
64) Phenanthrene-d10	17.227	188	645331	20.000	ng	0.00
76) Chrysene-d12	21.433	240	604742	20.000	ng	0.00
86) Perylene-d12	23.803	264	674680	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.369	112	915064	88.036	ng	0.00
7) Phenol-d6	6.981	99	1223629	90.818	ng	0.00
23) Nitrobenzene-d5	8.981	82	1130756	90.424	ng	0.00
42) 2,4,6-Tribromophenol	15.968	330	417779	91.935	ng	0.00
45) 2-Fluorobiphenyl	13.092	172	2261880	88.936	ng	0.00
79) Terphenyl-d14	19.868	244	3017954	90.231	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.263	88	191961	43.171	ng	100
3) Pyridine	3.669	79	532400	45.538	ng	99
4) n-Nitrosodimethylamine	3.587	42	243516	45.035	ng	96
6) Aniline	7.140	93	725186	45.991	ng	100
8) 2-Chlorophenol	7.369	128	455275	44.867	ng	100
9) Benzaldehyde	6.957	77	297105	41.791	ng	98
10) Phenol	7.010	94	588147	45.197	ng	100
11) bis(2-Chloroethyl)ether	7.240	93	465239	44.167	ng	99
12) 1,3-Dichlorobenzene	7.693	146	484616	43.874	ng	100
13) 1,4-Dichlorobenzene	7.840	146	493374	44.440	ng	99
14) 1,2-Dichlorobenzene	8.157	146	474514	44.577	ng	98
15) Benzyl Alcohol	8.063	79	392451	46.124	ng	99
16) 2,2'-oxybis(1-Chloropr...	8.345	45	625487m	44.567	ng	
17) 2-Methylphenol	8.263	107	407718	45.860	ng	99
18) Hexachloroethane	8.875	117	185455	44.870	ng	98
19) n-Nitroso-di-n-propyla...	8.628	70	379528	46.376	ng	99
20) 3+4-Methylphenols	8.592	107	551452	46.391	ng	100
22) Acetophenone	8.645	105	689072	44.740	ng	99
24) Nitrobenzene	9.022	77	569070	45.000	ng	98
25) Isophorone	9.551	82	960043	45.226	ng	100
26) 2-Nitrophenol	9.734	139	228635	46.248	ng	99
27) 2,4-Dimethylphenol	9.798	122	397402	45.683	ng	98
28) bis(2-Chloroethoxy)met...	10.039	93	596442	44.856	ng	99
29) 2,4-Dichlorophenol	10.269	162	397957	45.363	ng	99
30) 1,2,4-Trichlorobenzene	10.475	180	425376	43.887	ng	100
31) Naphthalene	10.663	128	1398466	44.314	ng	100
32) Benzoic acid	9.951	122	261468	41.209	ng	98
33) 4-Chloroaniline	10.792	127	582252	46.168	ng	99
34) Hexachlorobutadiene	10.934	225	252697	43.349	ng	99
35) Caprolactam	11.598	113	115738	45.606	ng	100
36) 4-Chloro-3-methylphenol	11.922	107	421945	45.697	ng	100
37) 2-Methylnaphthalene	12.280	142	956809	44.972	ng	99
38) 1-Methylnaphthalene	12.504	142	895573	44.975	ng	99
40) 1,2,4,5-Tetrachloroben...	12.651	216	457177	43.823	ng	100
41) Hexachlorocyclopentadiene	12.622	237	241216	43.705	ng	99
43) 2,4,6-Trichlorophenol	12.898	196	302640	45.262	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM072823\
Data File : BM041169.D
Acq On : 28 Jul 2023 17:11
Operator : MA/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 29 01:16:48 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Jul 29 00:19:24 2023
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.975	196	350392	45.276	ng	99
46) 1,1'-Biphenyl	13.304	154	1159963	44.536	ng	99
47) 2-Chloronaphthalene	13.345	162	868216	44.644	ng	99
48) 2-Nitroaniline	13.563	65	293286	47.246	ng	98
49) Acenaphthylene	14.192	152	1420184	45.244	ng	99
50) Dimethylphthalate	13.939	163	1065209	44.077	ng	99
51) 2,6-Dinitrotoluene	14.063	165	229239	45.780	ng	95
52) Acenaphthene	14.533	154	843816	44.623	ng	99
53) 3-Nitroaniline	14.398	138	249524	43.328	ng	98
54) 2,4-Dinitrophenol	14.610	184	128440	41.047	ng	98
55) Dibenzofuran	14.874	168	1369469	44.387	ng	99
56) 4-Nitrophenol	14.710	139	191311	45.842	ng	99
57) 2,4-Dinitrotoluene	14.857	165	303597	42.764	ng	98
58) Fluorene	15.521	166	1093751	44.938	ng	99
59) 2,3,4,6-Tetrachlorophenol	15.104	232	281867	44.977	ng	100
60) Diethylphthalate	15.304	149	1035993	44.329	ng	99
61) 4-Chlorophenyl-phenyle...	15.521	204	544599	44.652	ng	98
62) 4-Nitroaniline	15.569	138	225506	42.723	ng	99
63) Azobenzene	15.816	77	1184310	46.262	ng	99
65) 4,6-Dinitro-2-methylph...	15.621	198	175666	44.934	ng	99
66) n-Nitrosodiphenylamine	15.739	169	909713	45.326	ng	100
67) 4-Bromophenyl-phenylether	16.416	248	317921	44.932	ng	97
68) Hexachlorobenzene	16.527	284	347988	44.230	ng	98
69) Atrazine	16.698	200	249064	47.254	ng	99
70) Pentachlorophenol	16.880	266	255429	46.884	ng	99
71) Phenanthrene	17.268	178	1595896	44.510	ng	99
72) Anthracene	17.363	178	1609687	45.393	ng	100
73) Carbazole	17.645	167	1461341	45.530	ng	100
74) Di-n-butylphthalate	18.204	149	1635689	45.099	ng	100
75) Fluoranthene	19.298	202	1809033	44.909	ng	100
77) Benzidine	19.498	184	428435	51.978	ng	99
78) Pyrene	19.662	202	1891670	44.730	ng	100
80) Butylbenzylphthalate	20.568	149	707645	45.821	ng	99
81) Benzo(a)anthracene	21.415	228	1850177	45.130	ng	99
82) 3,3'-Dichlorobenzidine	21.356	252	617950	46.193	ng	100
83) Chrysene	21.468	228	1769005	44.611	ng	100
84) Bis(2-ethylhexyl)phtha...	21.345	149	997820	41.072	ng	98
85) Di-n-octyl phthalate	22.262	149	1673335	42.872	ng	100
87) Indeno(1,2,3-cd)pyrene	26.262	276	2260849	45.579	ng	100
88) Benzo(b)fluoranthene	23.086	252	1816172	45.314	ng	100
89) Benzo(k)fluoranthene	23.133	252	1819673	44.384	ng	100
90) Benzo(a)pyrene	23.703	252	1745994	45.337	ng	99
91) Dibenzo(a,h)anthracene	26.268	278	1879095	45.418	ng	100
92) Benzo(g,h,i)perylene	27.009	276	1844440	45.560	ng	99

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

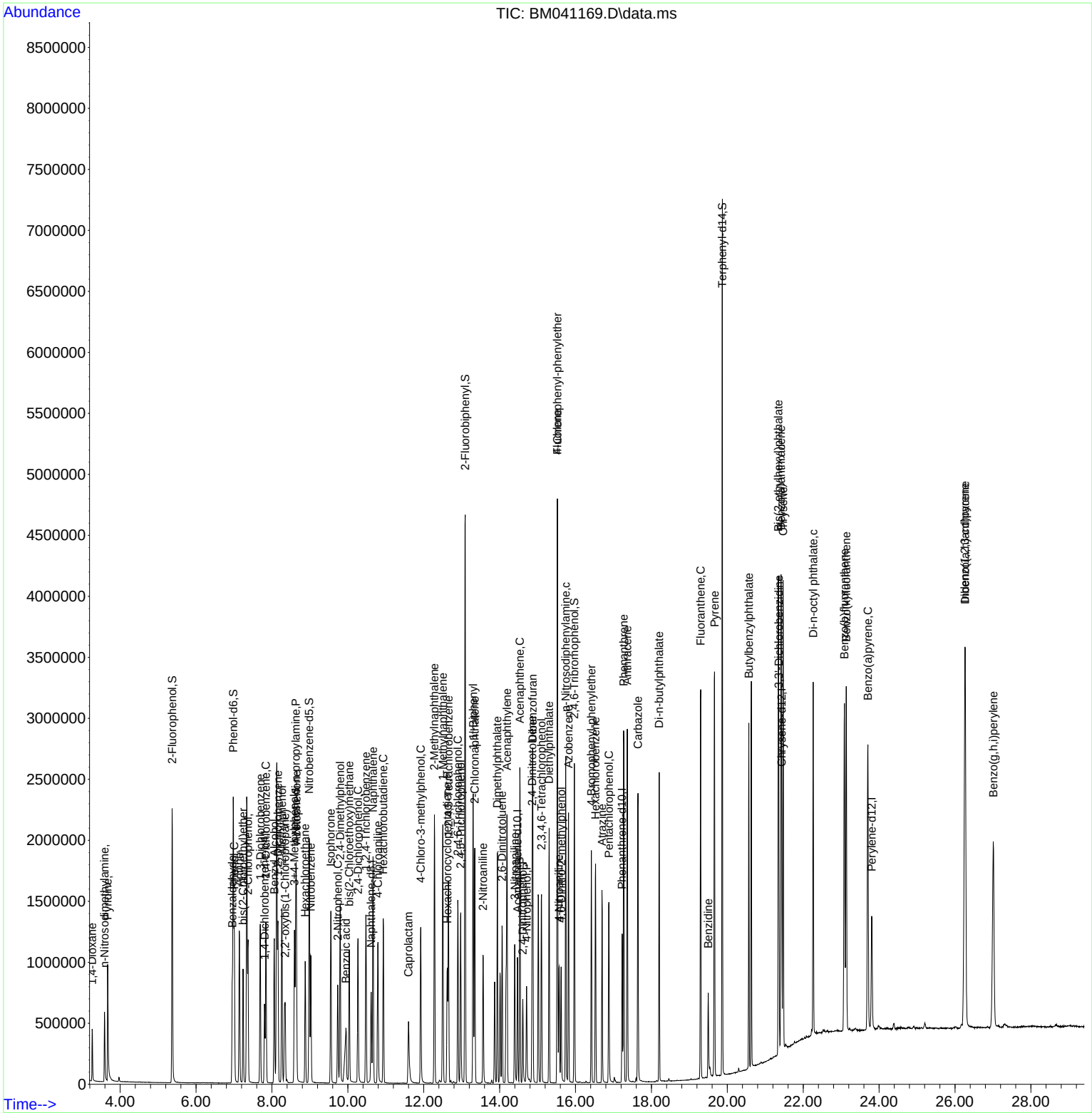
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM072823\
Data File : BM041169.D
Acq On : 28 Jul 2023 17:11
Operator : MA/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

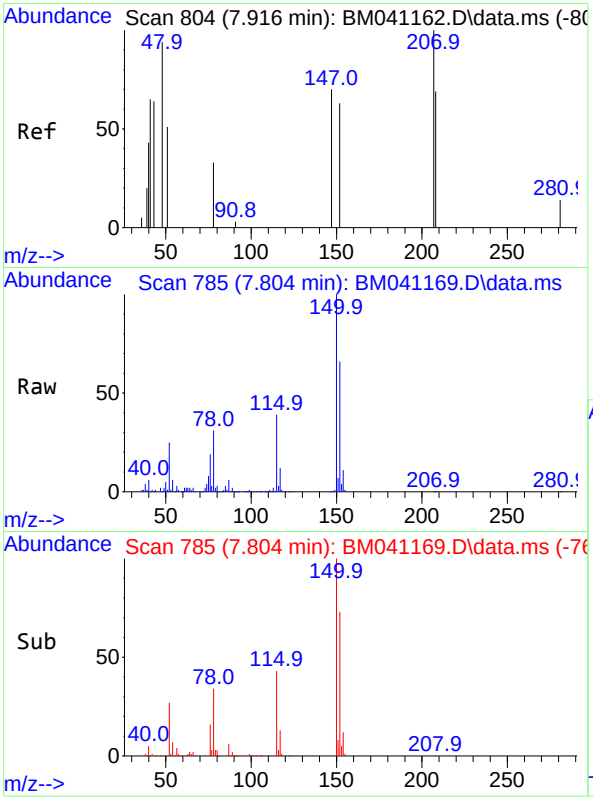
Quant Time: Jul 29 01:16:48 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Jul 29 00:19:24 2023
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

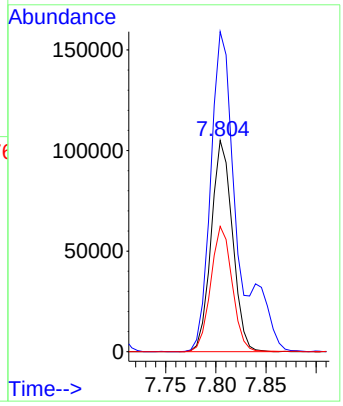




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.804 min Scan# 7
Delta R.T. 0.000 min
Lab File: BM041169.D
Acq: 28 Jul 2023 17:11

Tgt Ion:152 Resp: 15535

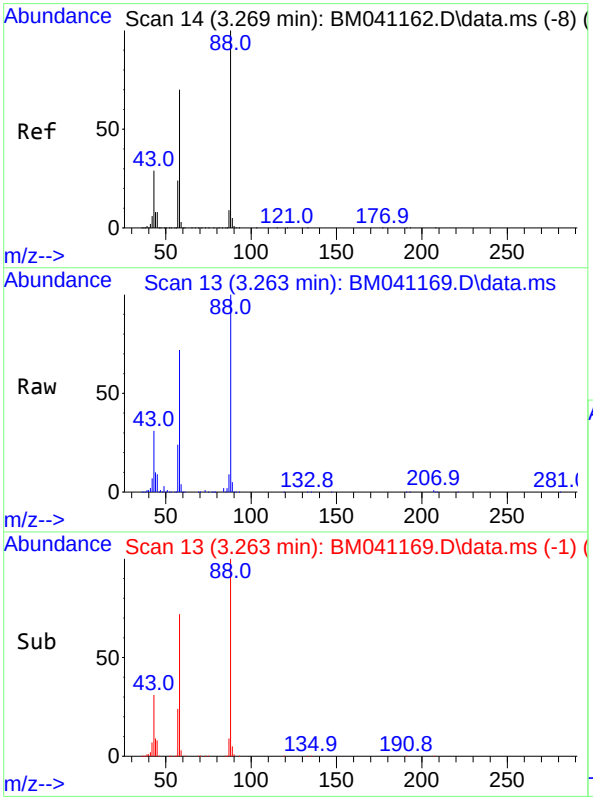
Ion	Ratio	Lower	Upper
152	100		
150	151.5	125.5	188.3
115	59.3	48.0	72.0



Instrument :
BNA_M
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

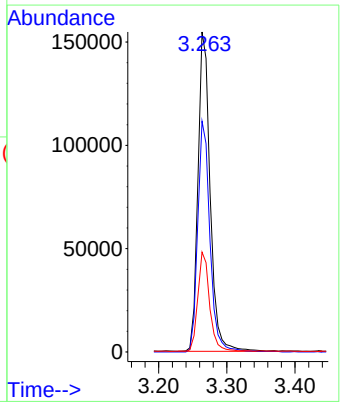
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

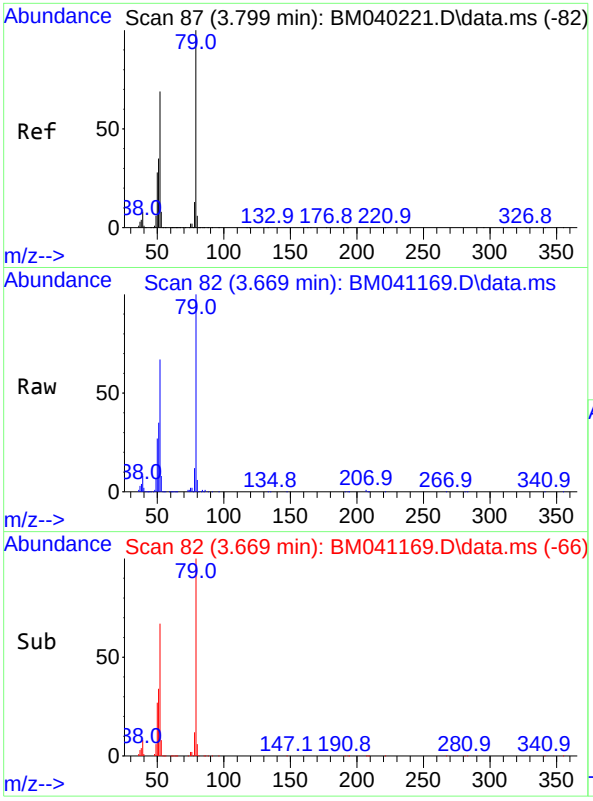


#2
1,4-Dioxane
Concen: 43.171 ng
RT: 3.263 min Scan# 13
Delta R.T. -0.006 min
Lab File: BM041169.D
Acq: 28 Jul 2023 17:11

Tgt Ion: 88 Resp: 191961

Ion	Ratio	Lower	Upper
88	100		
58	72.5	58.2	87.4
43	30.2	24.4	36.6

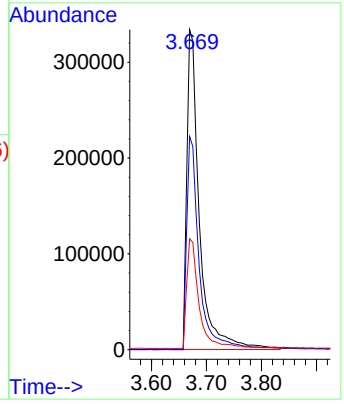




#3
Pyridine
Concen: 45.538 ng
RT: 3.669 min Scan# 8
Delta R.T. -0.006 min
Lab File: BM041169.D
Acq: 28 Jul 2023 17:11

Tgt Ion: 79 Resp: 53240

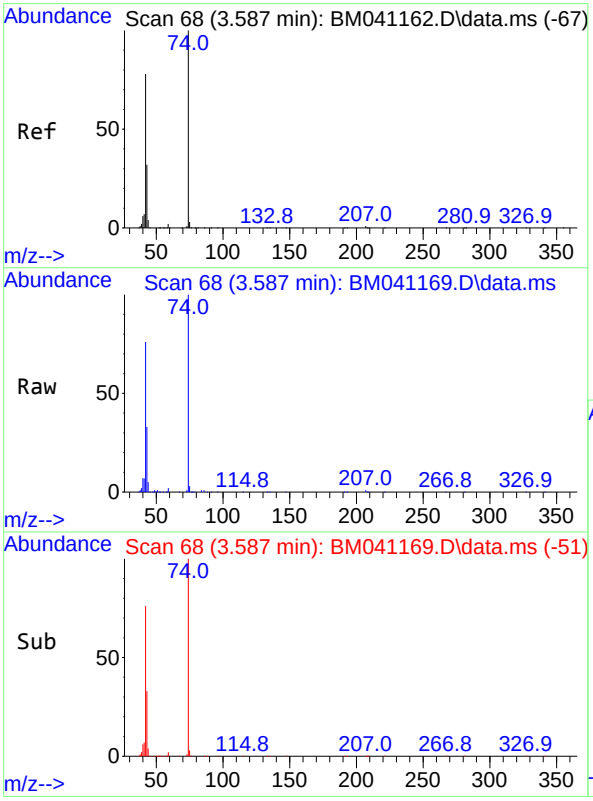
Ion	Ratio	Lower	Upper
79	100		
52	66.6	52.1	78.1
51	34.7	27.5	41.3



Instrument :
BNA_M
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

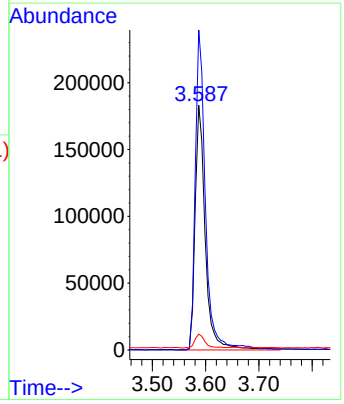
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

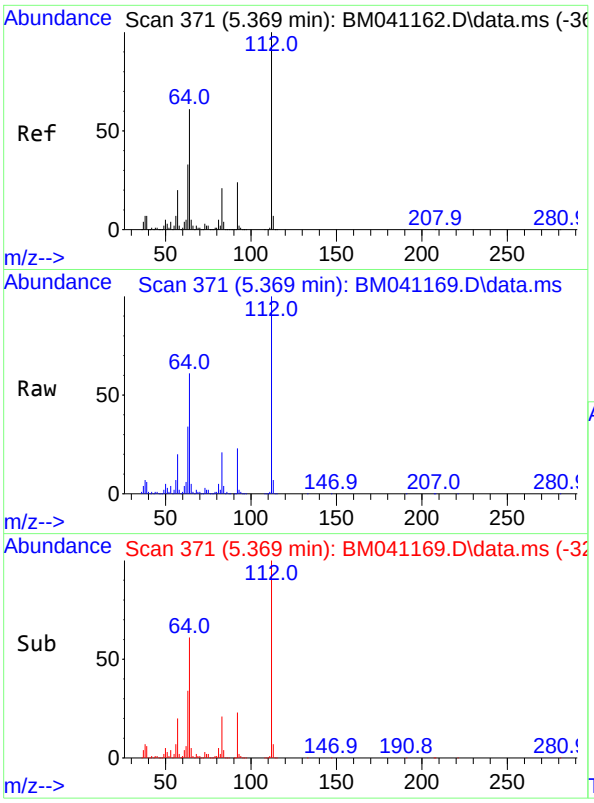


#4
n-Nitrosodimethylamine
Concen: 45.035 ng
RT: 3.587 min Scan# 68
Delta R.T. 0.000 min
Lab File: BM041169.D
Acq: 28 Jul 2023 17:11

Tgt Ion: 42 Resp: 243516

Ion	Ratio	Lower	Upper
42	100		
74	130.8	100.8	151.2
44	6.5	5.0	7.4

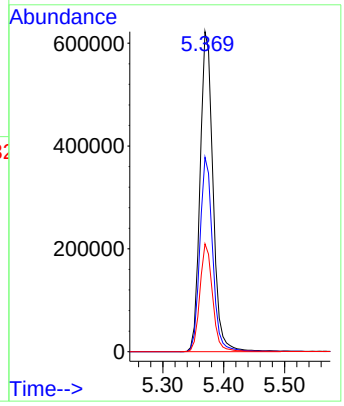




#5
2-Fluorophenol
Concen: 88.036 ng
RT: 5.369 min Scan# 3
Delta R.T. 0.000 min
Lab File: BM041169.D
Acq: 28 Jul 2023 17:11

Tgt Ion:112 Resp: 91506

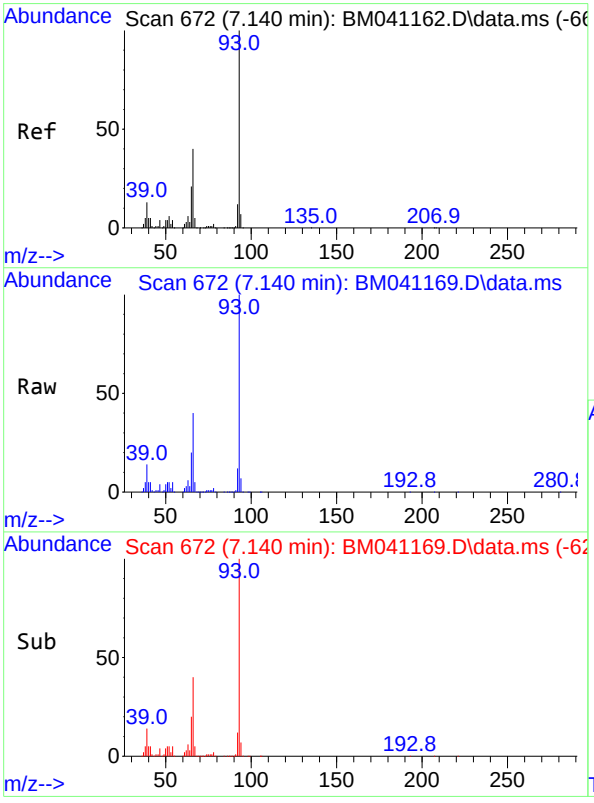
Ion	Ratio	Lower	Upper
112	100		
64	60.8	48.5	72.7
63	33.7	26.5	39.7



Instrument :
BNA_M
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

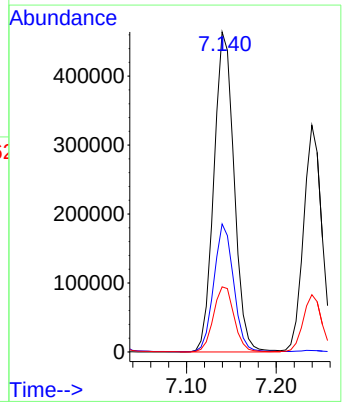
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

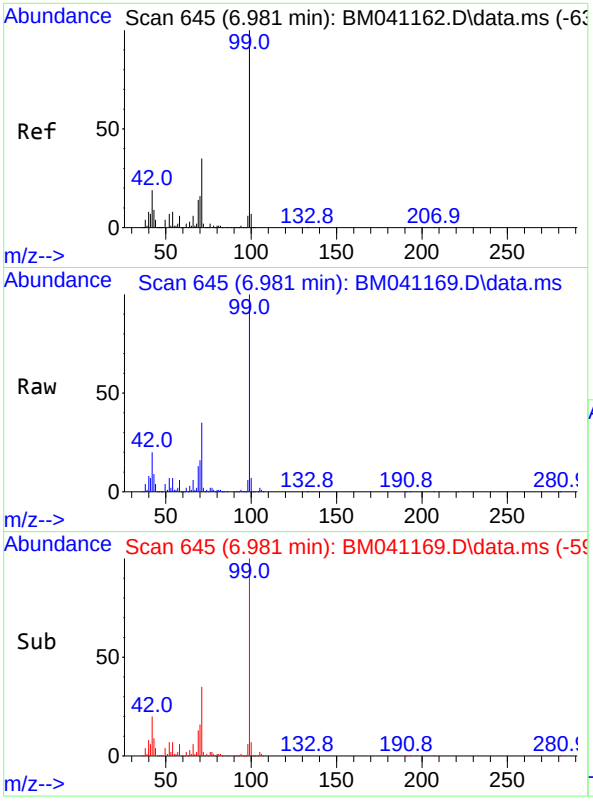


#6
Aniline
Concen: 45.991 ng
RT: 7.140 min Scan# 672
Delta R.T. 0.000 min
Lab File: BM041169.D
Acq: 28 Jul 2023 17:11

Tgt Ion: 93 Resp: 725186

Ion	Ratio	Lower	Upper
93	100		
66	40.0	32.0	48.0
65	20.4	16.6	24.8

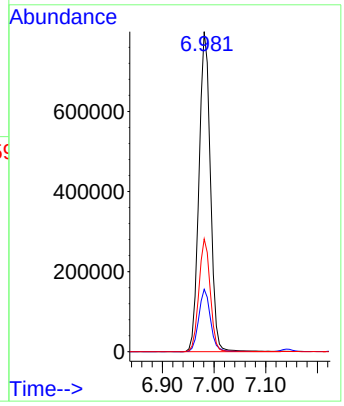




#7
Phenol-d6
Concen: 90.818 ng
RT: 6.981 min Scan# 64
Delta R.T. 0.000 min
Lab File: BM041169.D
Acq: 28 Jul 2023 17:11

Tgt Ion: 99 Resp: 122362

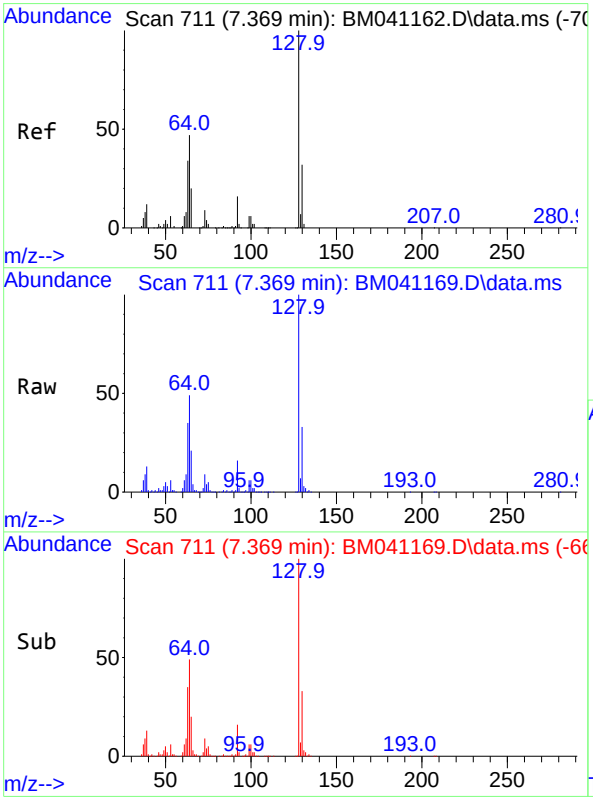
Ion	Ratio	Lower	Upper
99	100		
42	19.5	15.4	23.0
71	35.3	28.2	42.4



Instrument :
BNA_M
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

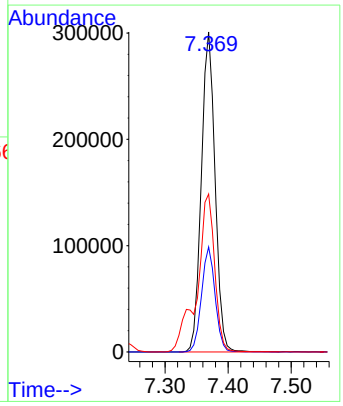
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

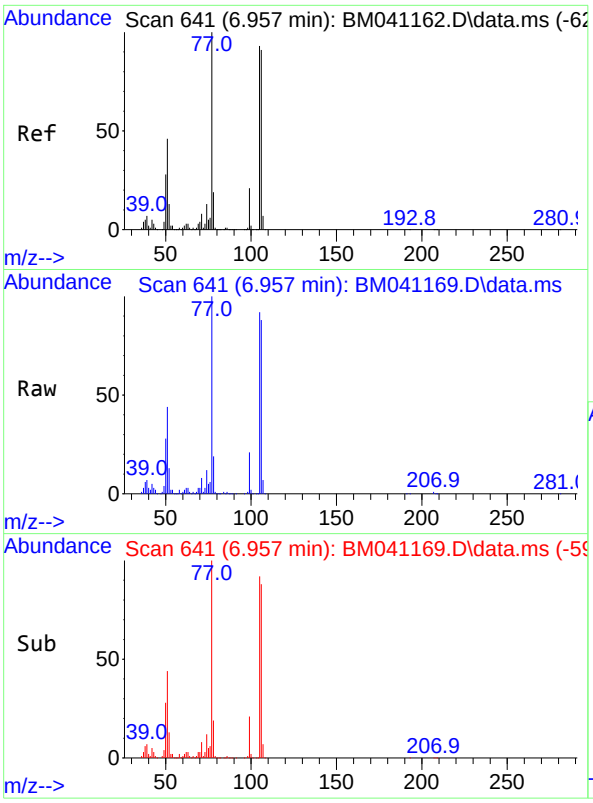


#8
2-Chlorophenol
Concen: 44.867 ng
RT: 7.369 min Scan# 711
Delta R.T. 0.000 min
Lab File: BM041169.D
Acq: 28 Jul 2023 17:11

Tgt Ion:128 Resp: 455275

Ion	Ratio	Lower	Upper
128	100		
130	32.8	12.3	52.3
64	49.4	29.3	69.3

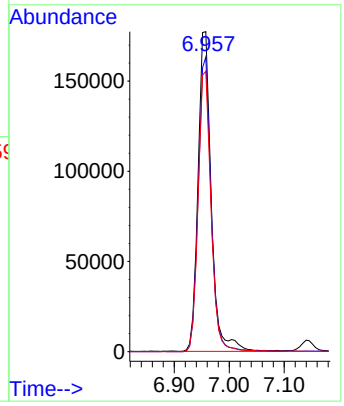




#9
Benzaldehyde
Concen: 41.791 ng
RT: 6.957 min Scan# 64
Delta R.T. 0.000 min
Lab File: BM041169.D
Acq: 28 Jul 2023 17:11

Tgt Ion: 77 Resp: 29710

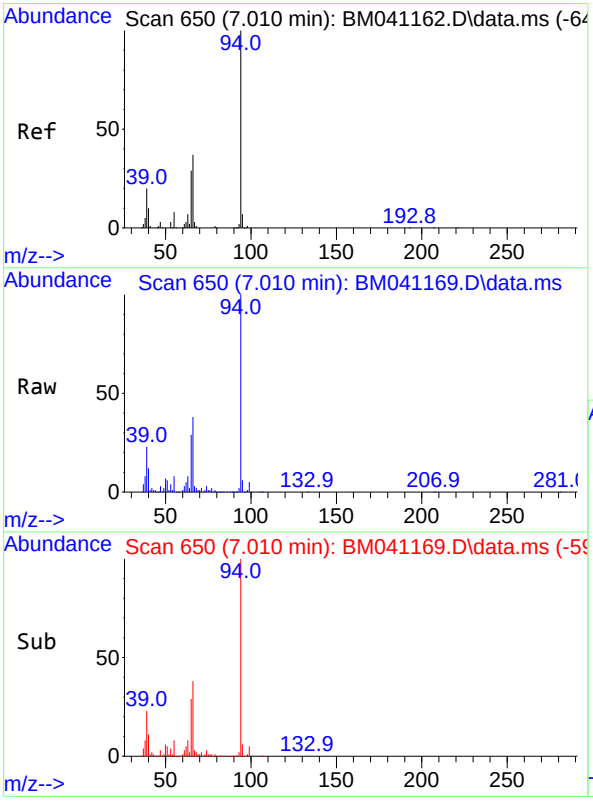
Ion	Ratio	Lower	Upper
77	100		
105	92.0	72.8	112.8
106	87.7	70.8	110.8



Instrument :
BNA_M
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

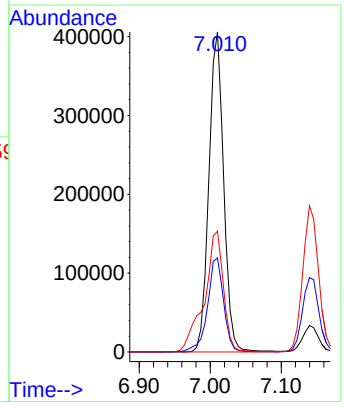
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

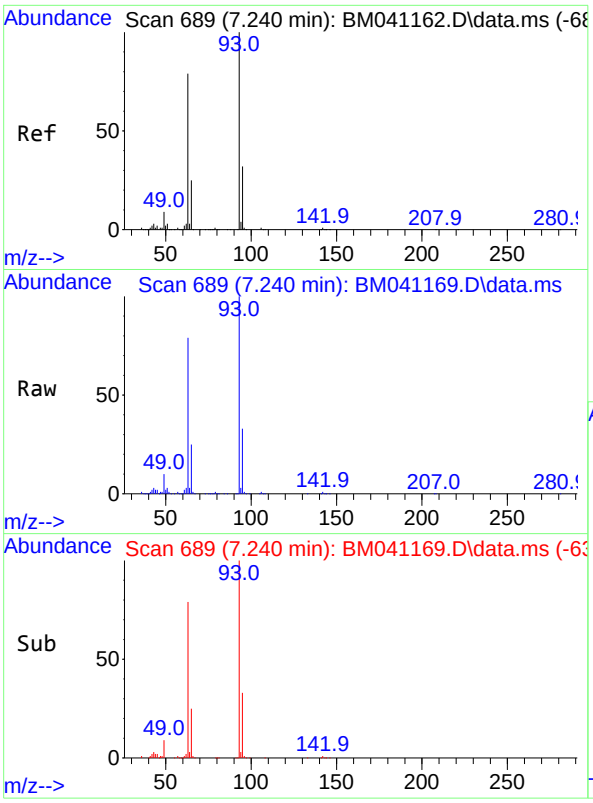


#10
Phenol
Concen: 45.197 ng
RT: 7.010 min Scan# 650
Delta R.T. 0.000 min
Lab File: BM041169.D
Acq: 28 Jul 2023 17:11

Tgt Ion: 94 Resp: 588147

Ion	Ratio	Lower	Upper
94	100		
65	29.4	9.5	49.5
66	37.8	18.0	58.0

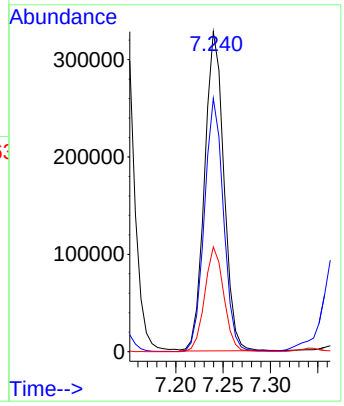




#11
bis(2-Chloroethyl)ether
Concen: 44.167 ng
RT: 7.240 min Scan# 6
Delta R.T. 0.000 min
Lab File: BM041169.D
Acq: 28 Jul 2023 17:11

Tgt Ion: 93 Resp: 46523

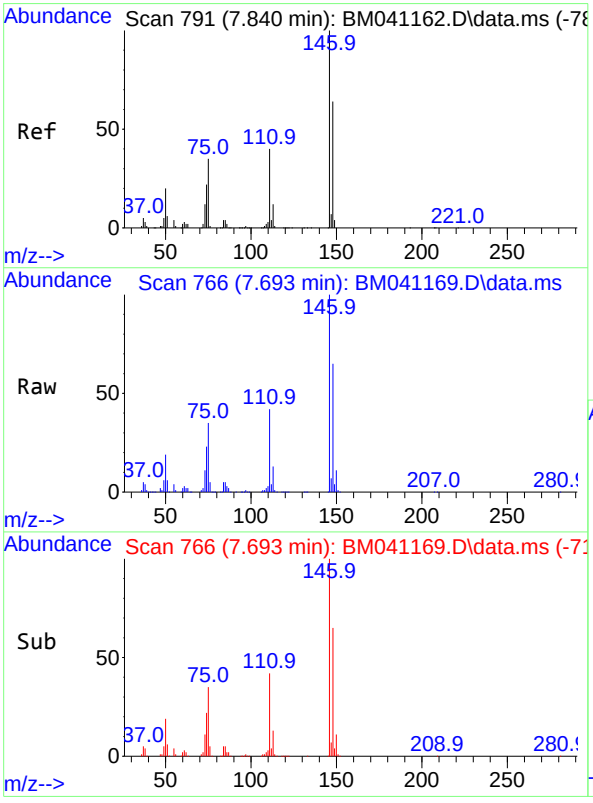
Ion	Ratio	Lower	Upper
93	100		
63	79.1	58.8	98.8
95	32.8	11.8	51.8



Instrument :
BNA_M
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

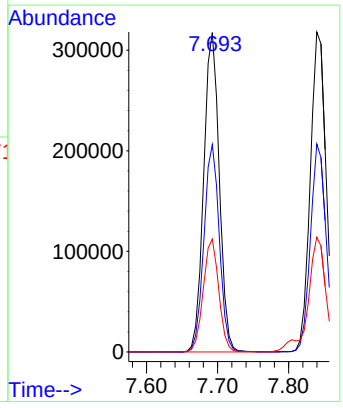
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

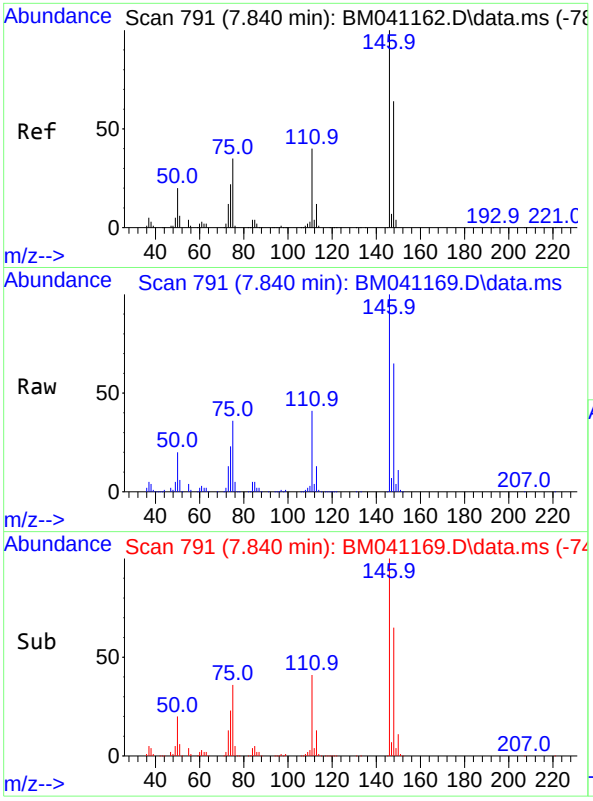


#12
1,3-Dichlorobenzene
Concen: 43.874 ng
RT: 7.693 min Scan# 766
Delta R.T. 0.000 min
Lab File: BM041169.D
Acq: 28 Jul 2023 17:11

Tgt Ion:146 Resp: 484616

Ion	Ratio	Lower	Upper
146	100		
148	65.0	51.9	77.9
75	35.4	28.3	42.5

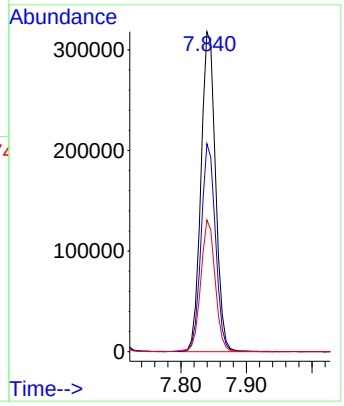




#13
1,4-Dichlorobenzene
Concen: 44.440 ng
RT: 7.840 min Scan# 7
Delta R.T. 0.000 min
Lab File: BM041169.D
Acq: 28 Jul 2023 17:11

Tgt Ion:146 Resp: 49337

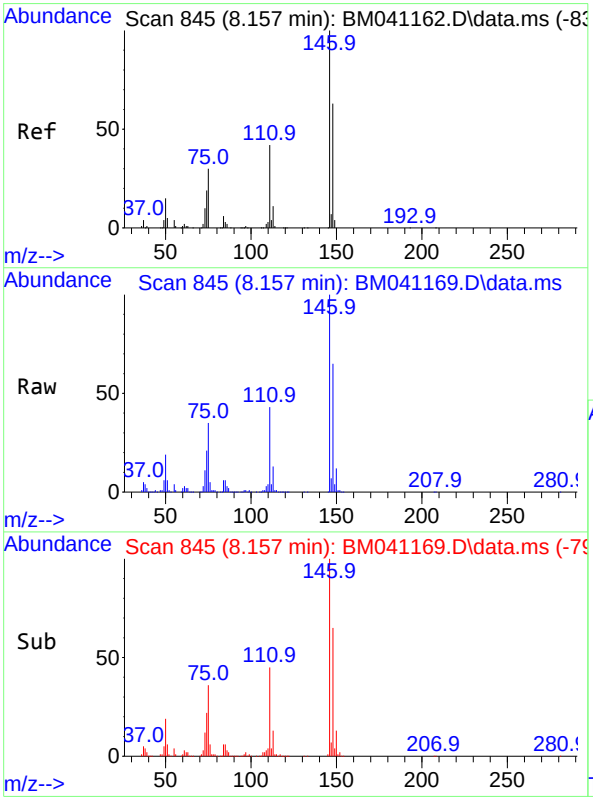
Ion	Ratio	Lower	Upper
146	100		
148	65.0	51.4	77.0
111	41.2	32.4	48.6



Instrument :
BNA_M
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

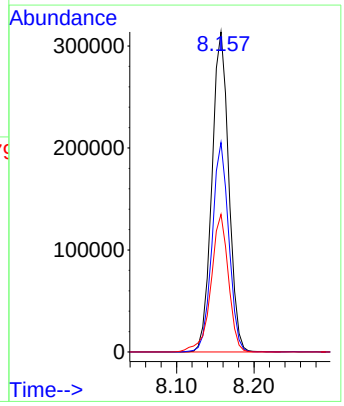
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

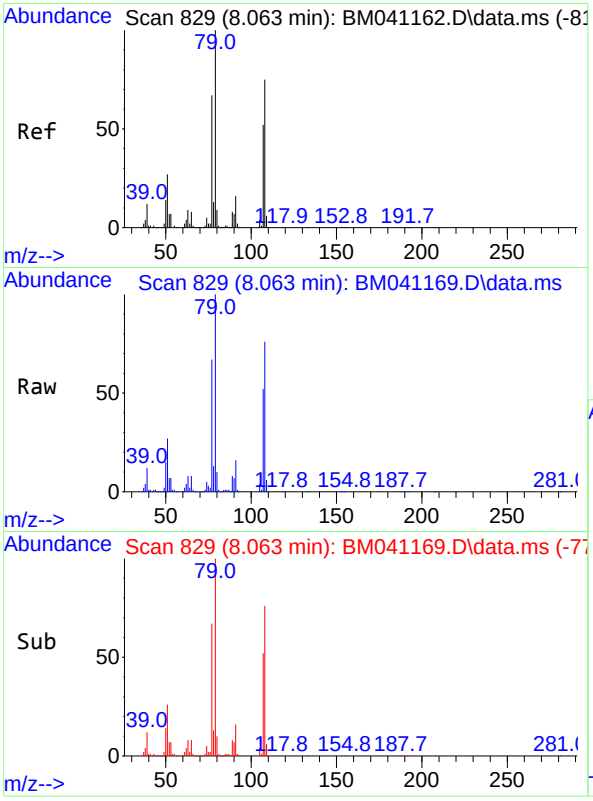


#14
1,2-Dichlorobenzene
Concen: 44.577 ng
RT: 8.157 min Scan# 845
Delta R.T. 0.000 min
Lab File: BM041169.D
Acq: 28 Jul 2023 17:11

Tgt Ion:146 Resp: 474514

Ion	Ratio	Lower	Upper
146	100		
148	65.4	50.9	76.3
111	43.0	33.8	50.6

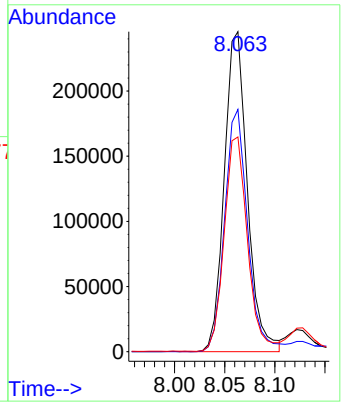




#15
Benzyl Alcohol
Concen: 46.124 ng
RT: 8.063 min Scan# 8
Delta R.T. 0.000 min
Lab File: BM041169.D
Acq: 28 Jul 2023 17:11

Tgt Ion: 79 Resp: 39245

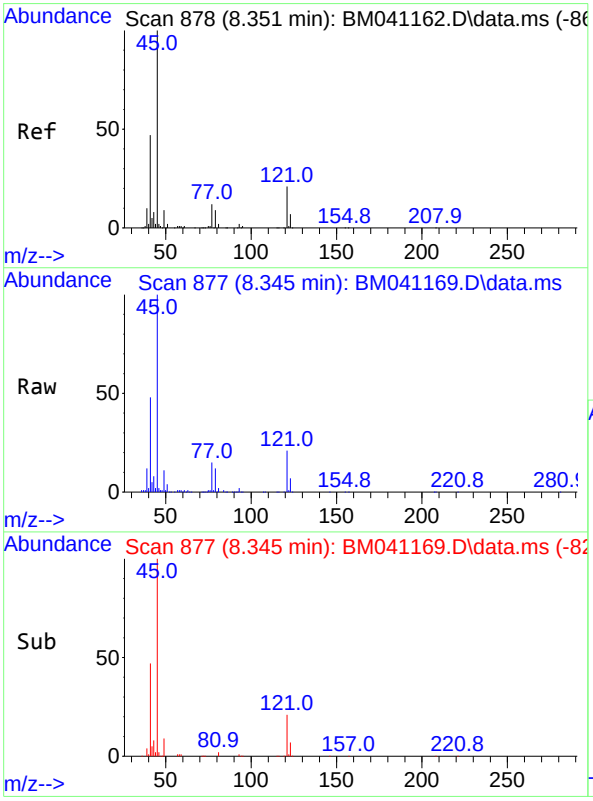
Ion	Ratio	Lower	Upper
79	100		
108	75.7	59.8	89.8
77	67.1	53.8	80.6



Instrument :
BNA_M
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

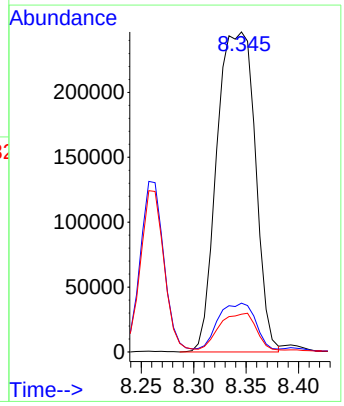
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

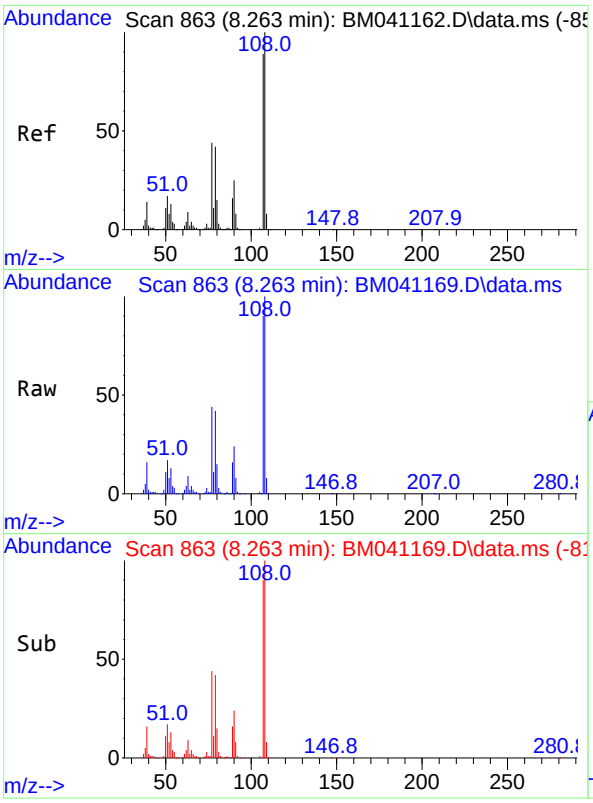


#16
2,2'-oxybis(1-Chloropropane)
Concen: 44.567 ng m
RT: 8.345 min Scan# 877
Delta R.T. -0.006 min
Lab File: BM041169.D
Acq: 28 Jul 2023 17:11

Tgt Ion: 45 Resp: 625487

Ion	Ratio	Lower	Upper
45	100		
77	15.3	0.0	34.5
79	11.8	0.0	32.1

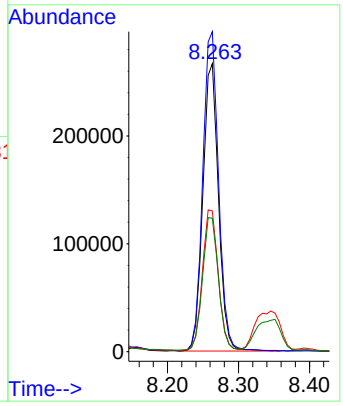




#17
2-Methylphenol
Concen: 45.860 ng
RT: 8.263 min Scan# 8
Delta R.T. 0.000 min
Lab File: BM041169.D
Acq: 28 Jul 2023 17:11

Tgt Ion:107 Resp: 40771

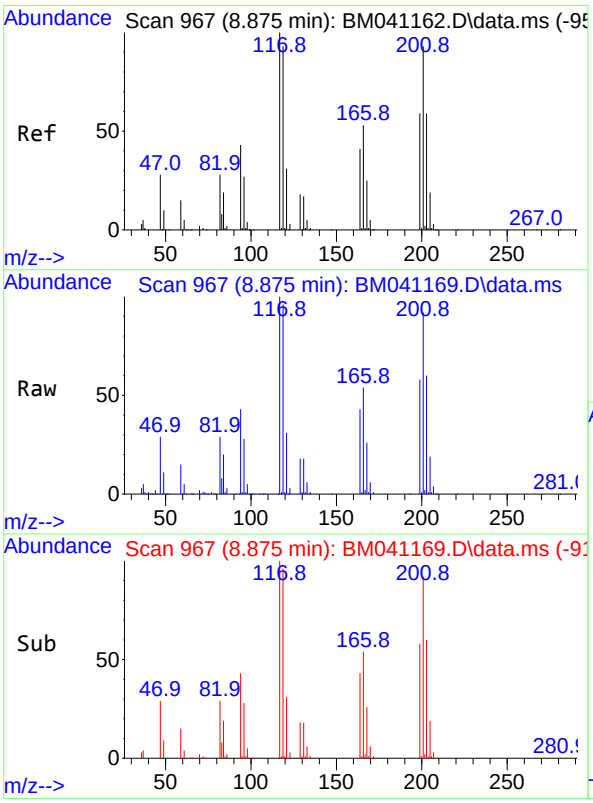
Ion	Ratio	Lower	Upper
107	100		
108	111.1	89.9	134.9
77	48.9	39.8	59.8
79	46.3	37.7	56.5



Instrument :
BNA_M
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

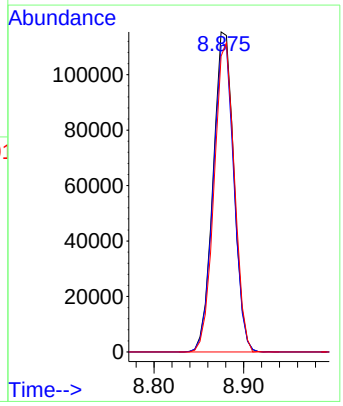
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

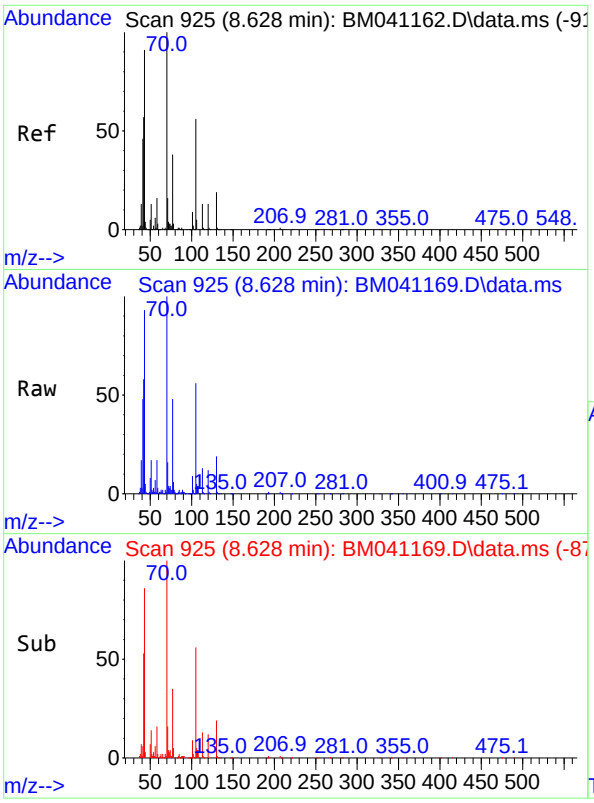


#18
Hexachloroethane
Concen: 44.870 ng
RT: 8.875 min Scan# 967
Delta R.T. 0.000 min
Lab File: BM041169.D
Acq: 28 Jul 2023 17:11

Tgt Ion:117 Resp: 185455

Ion	Ratio	Lower	Upper
117	100		
119	95.7	74.2	111.4
201	94.7	74.5	111.7

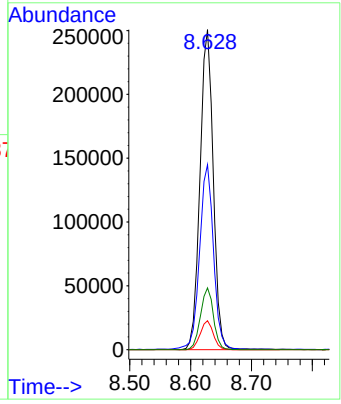




#19
n-Nitroso-di-n-propylamine
Concen: 46.376 ng
RT: 8.628 min Scan# 9
Delta R.T. 0.000 min
Lab File: BM041169.D
Acq: 28 Jul 2023 17:11

Tgt Ion: 70 Resp: 37952

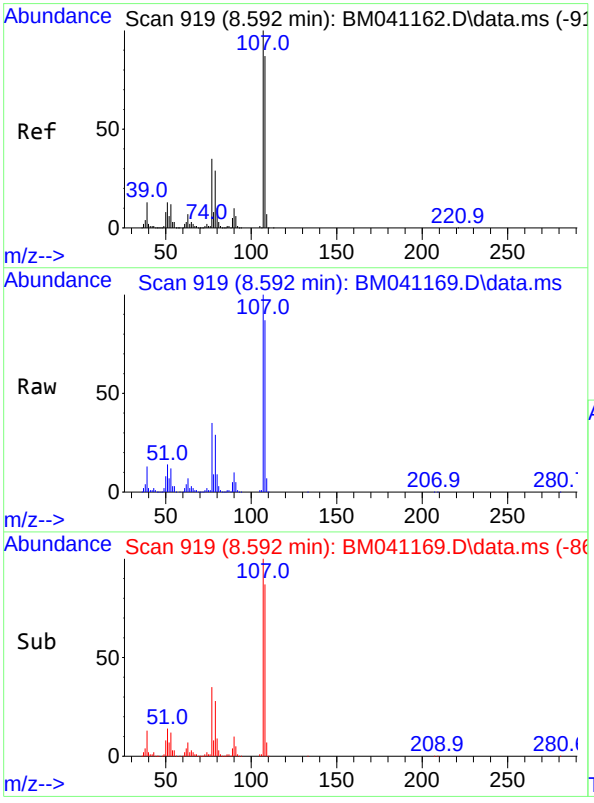
Ion	Ratio	Lower	Upper
70	100		
42	57.8	45.8	68.8
101	9.0	7.4	11.0
130	19.3	15.2	22.8



Instrument :
BNA_M
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

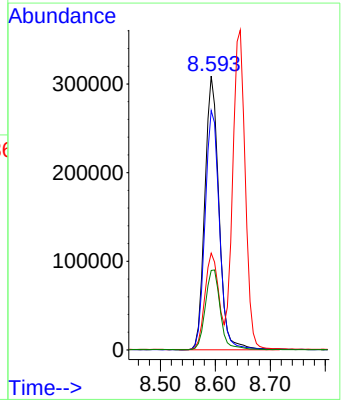
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

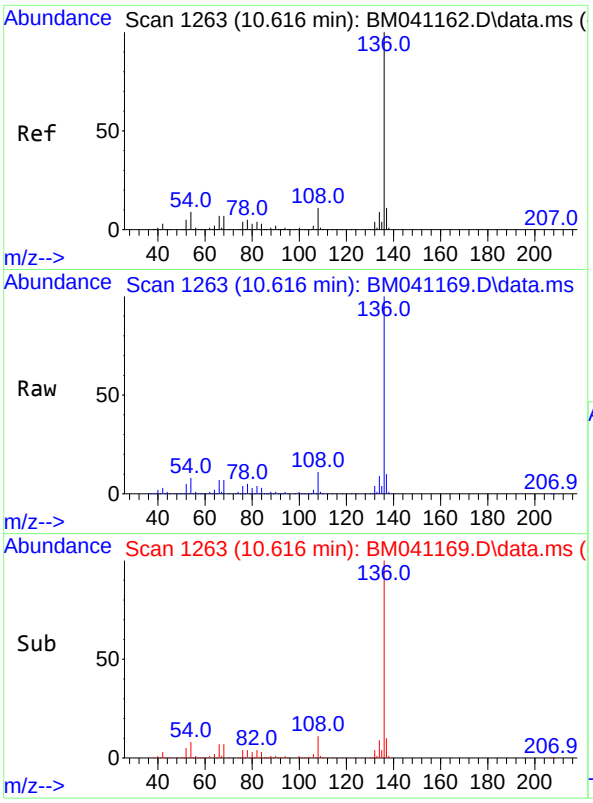


#20
3+4-Methylphenols
Concen: 46.391 ng
RT: 8.592 min Scan# 919
Delta R.T. 0.000 min
Lab File: BM041169.D
Acq: 28 Jul 2023 17:11

Tgt Ion:107 Resp: 551452

Ion	Ratio	Lower	Upper
107	100		
108	87.4	67.2	107.2
77	35.4	15.4	55.4
79	29.0	9.2	49.2

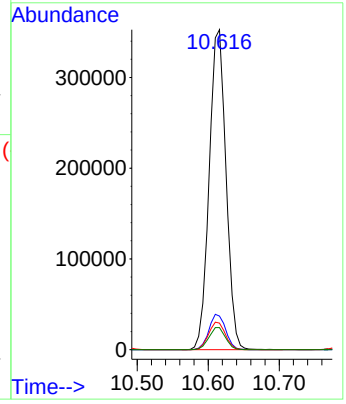




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.616 min Scan# 1
Delta R.T. -0.000 min
Lab File: BM041169.D
Acq: 28 Jul 2023 17:11

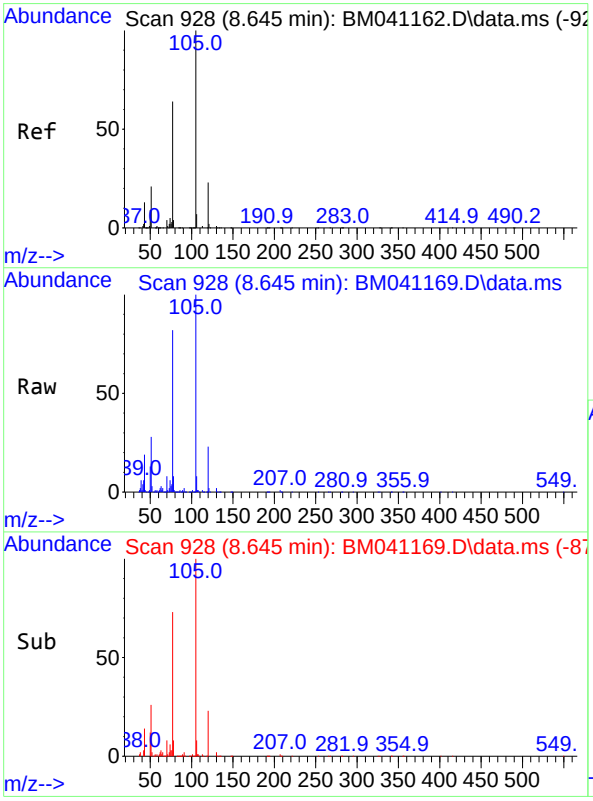
Tgt Ion:136 Resp: 58154

Ion	Ratio	Lower	Upper
136	100		
137	10.5	8.8	13.2
54	8.3	6.9	10.3
68	6.9	5.4	8.2



Instrument :
BNA_M
ClientSampleId :
SSTDCCC040

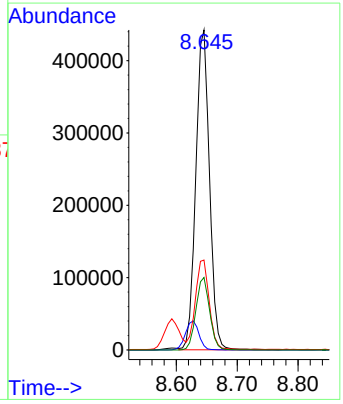
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

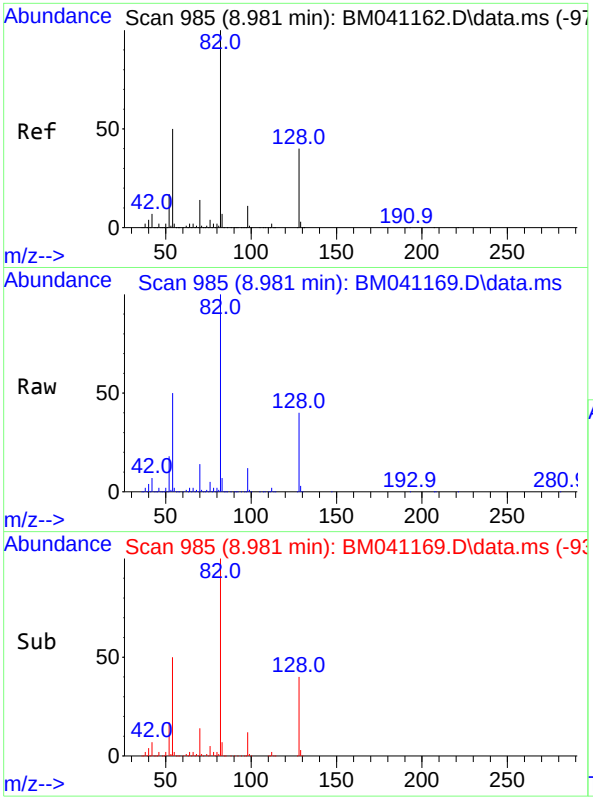


#22
Acetophenone
Concen: 44.740 ng
RT: 8.645 min Scan# 928
Delta R.T. 0.000 min
Lab File: BM041169.D
Acq: 28 Jul 2023 17:11

Tgt Ion:105 Resp: 689072

Ion	Ratio	Lower	Upper
105	100		
71	1.3	1.2	1.8
51	28.1	22.0	33.0
120	22.6	18.0	27.0

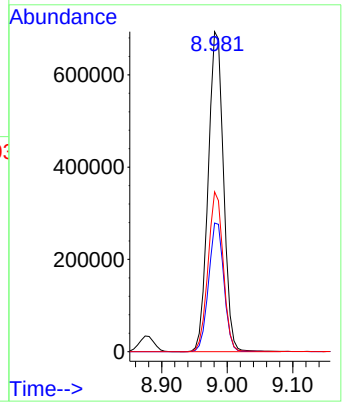




#23
Nitrobenzene-d5
Concen: 90.424 ng
RT: 8.981 min Scan# 9
Delta R.T. 0.000 min
Lab File: BM041169.D
Acq: 28 Jul 2023 17:11

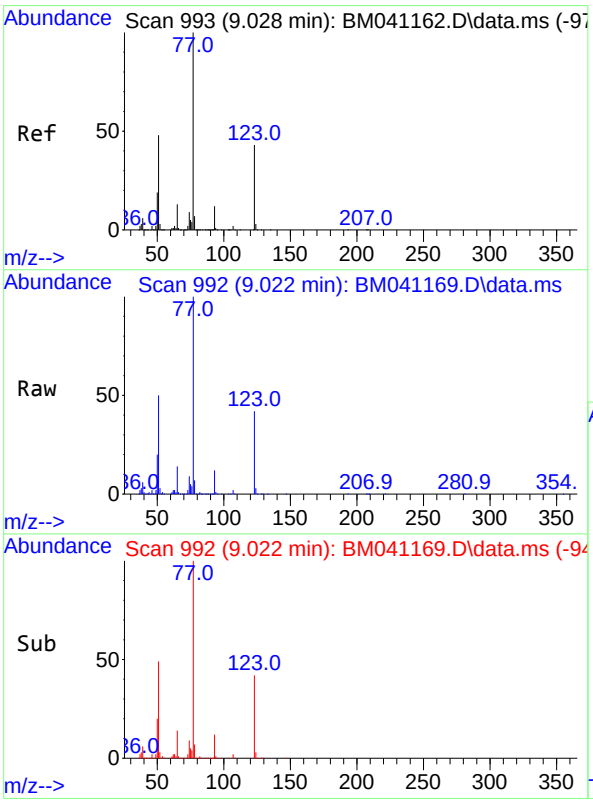
Tgt Ion: 82 Resp: 113075

Ion	Ratio	Lower	Upper
82	100		
128	40.2	31.8	47.6
54	50.0	40.1	60.1



Instrument :
BNA_M
ClientSampleId :
SSTDCCC040

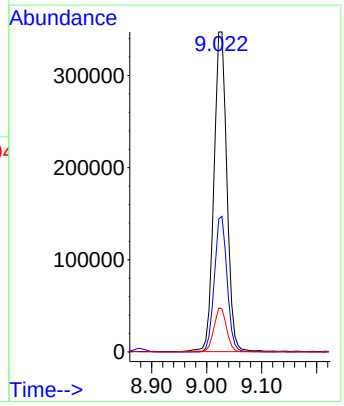
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

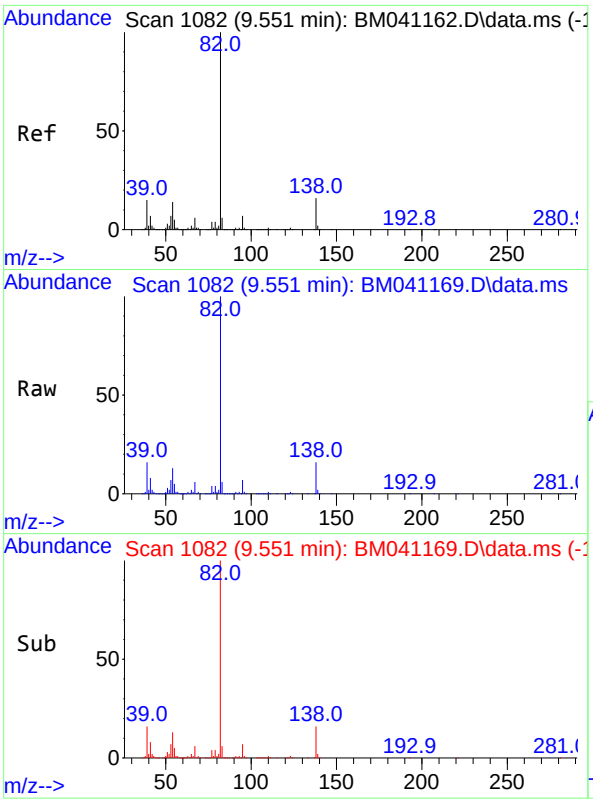


#24
Nitrobenzene
Concen: 45.000 ng
RT: 9.022 min Scan# 992
Delta R.T. -0.006 min
Lab File: BM041169.D
Acq: 28 Jul 2023 17:11

Tgt Ion: 77 Resp: 569070

Ion	Ratio	Lower	Upper
77	100		
123	41.5	34.2	51.2
65	13.8	10.7	16.1

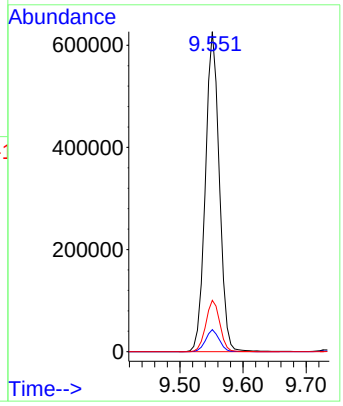




#25
Isophorone
Concen: 45.226 ng
RT: 9.551 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM041169.D
Acq: 28 Jul 2023 17:11

Tgt Ion: 82 Resp: 96004

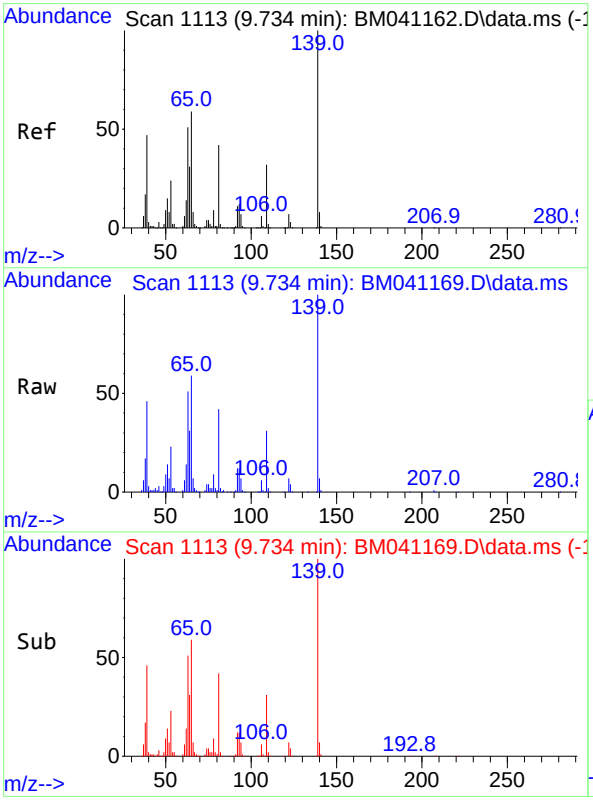
Ion	Ratio	Lower	Upper
82	100		
95	6.9	5.3	7.9
138	16.0	12.8	19.2



Instrument :
BNA_M
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

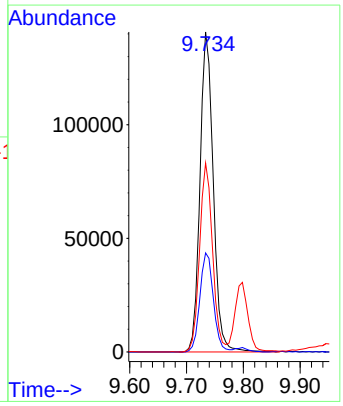
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

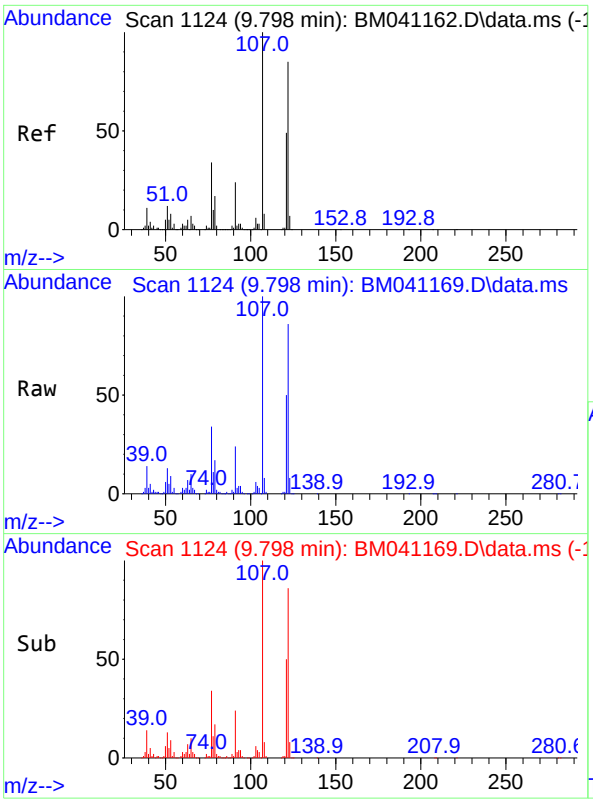


#26
2-Nitrophenol
Concen: 46.248 ng
RT: 9.734 min Scan# 1113
Delta R.T. 0.000 min
Lab File: BM041169.D
Acq: 28 Jul 2023 17:11

Tgt Ion:139 Resp: 228635

Ion	Ratio	Lower	Upper
139	100		
109	31.0	25.4	38.2
65	59.0	47.2	70.8

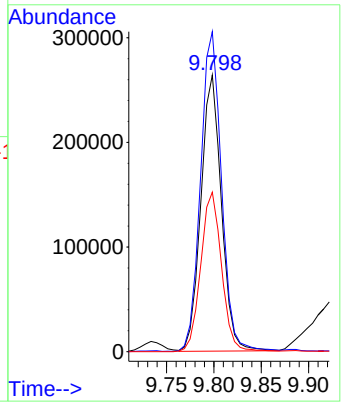




#27
2,4-Dimethylphenol
Concen: 45.683 ng
RT: 9.798 min Scan# 11
Delta R.T. 0.000 min
Lab File: BM041169.D
Acq: 28 Jul 2023 17:11

Tgt Ion:122 Resp: 39740

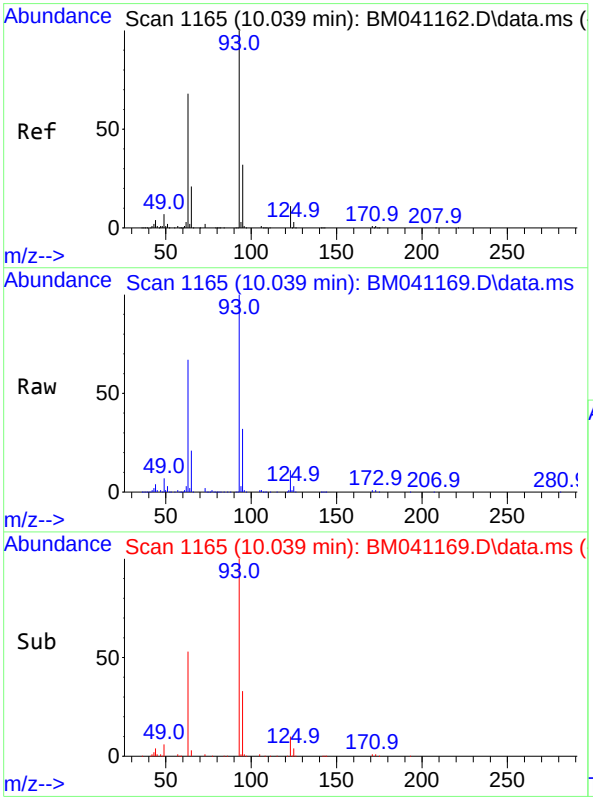
Ion	Ratio	Lower	Upper
122	100		
107	115.7	94.3	141.5
121	57.6	45.8	68.8



Instrument :
BNA_M
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

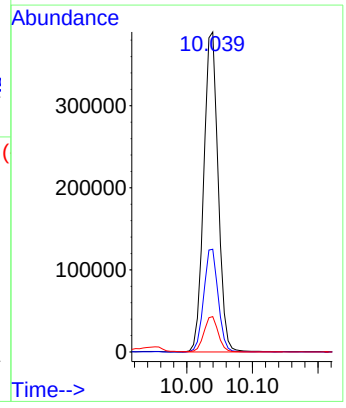
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

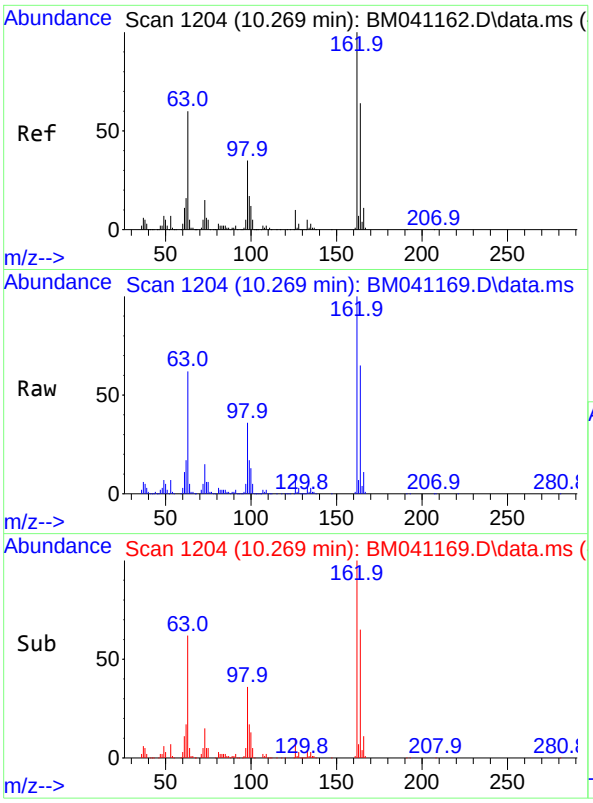


#28
bis(2-Chloroethoxy)methane
Concen: 44.856 ng
RT: 10.039 min Scan# 1165
Delta R.T. 0.000 min
Lab File: BM041169.D
Acq: 28 Jul 2023 17:11

Tgt Ion: 93 Resp: 596442

Ion	Ratio	Lower	Upper
93	100		
95	32.1	25.9	38.9
123	11.0	9.1	13.7

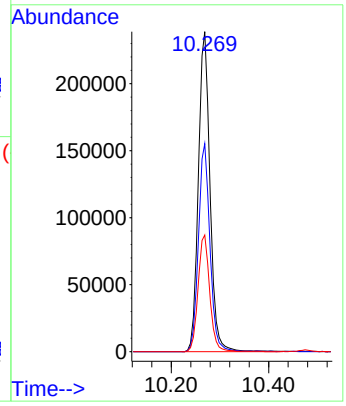




#29
2,4-Dichlorophenol
Concen: 45.363 ng
RT: 10.269 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM041169.D
Acq: 28 Jul 2023 17:11

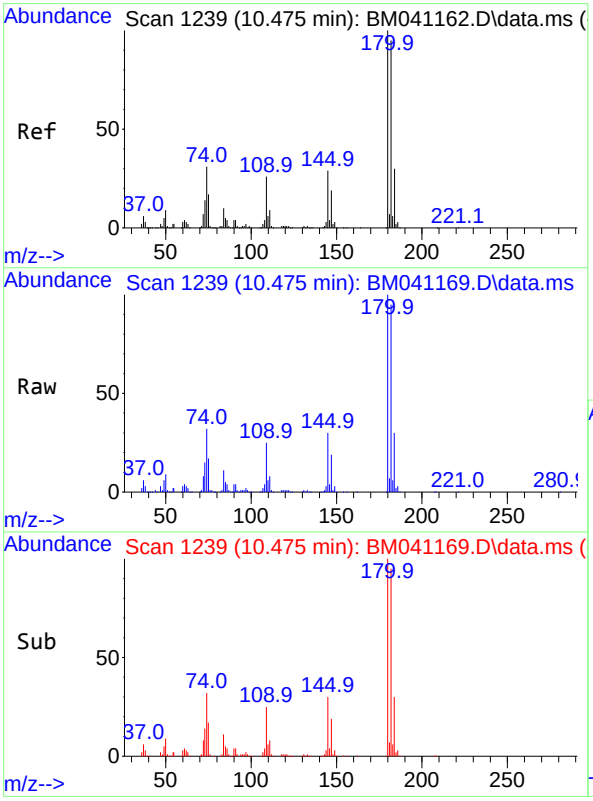
Tgt Ion:162 Resp: 39795

Ion	Ratio	Lower	Upper
162	100		
164	65.0	44.3	84.3
98	36.5	15.1	55.1



Instrument :
BNA_M
ClientSampleId :
SSTDCCC040

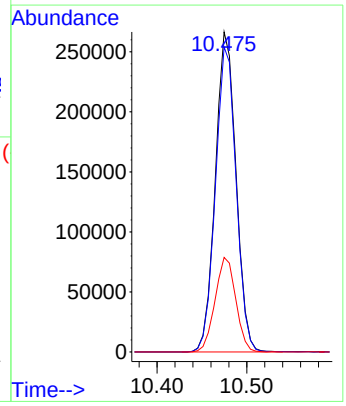
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

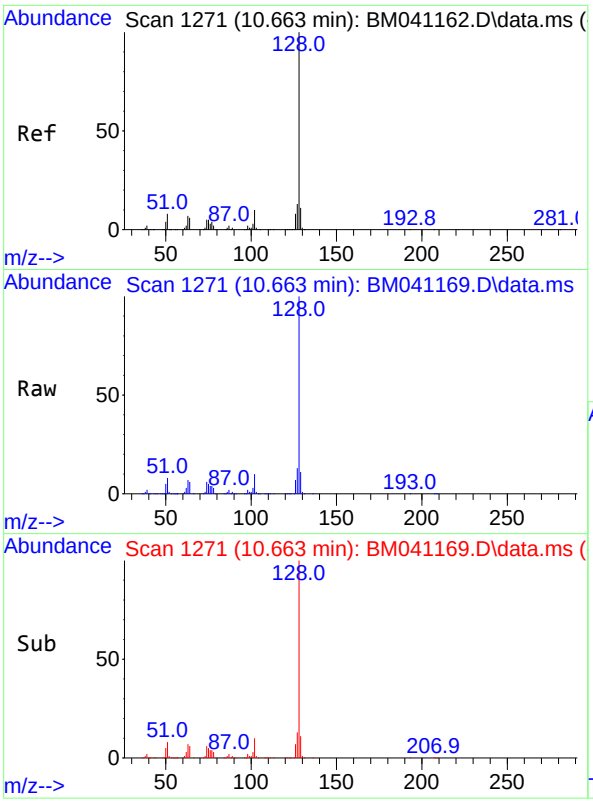


#30
1,2,4-Trichlorobenzene
Concen: 43.887 ng
RT: 10.475 min Scan# 1239
Delta R.T. 0.000 min
Lab File: BM041169.D
Acq: 28 Jul 2023 17:11

Tgt Ion:180 Resp: 425376

Ion	Ratio	Lower	Upper
180	100		
182	95.3	75.9	113.9
145	29.6	23.6	35.4

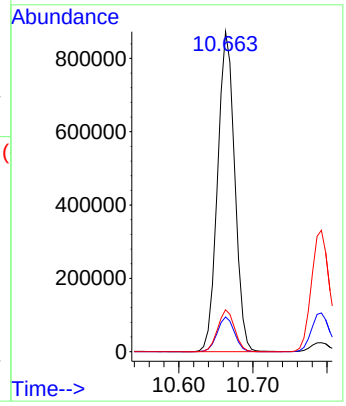




#31
Naphthalene
Concen: 44.314 ng
RT: 10.663 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM041169.D
Acq: 28 Jul 2023 17:11

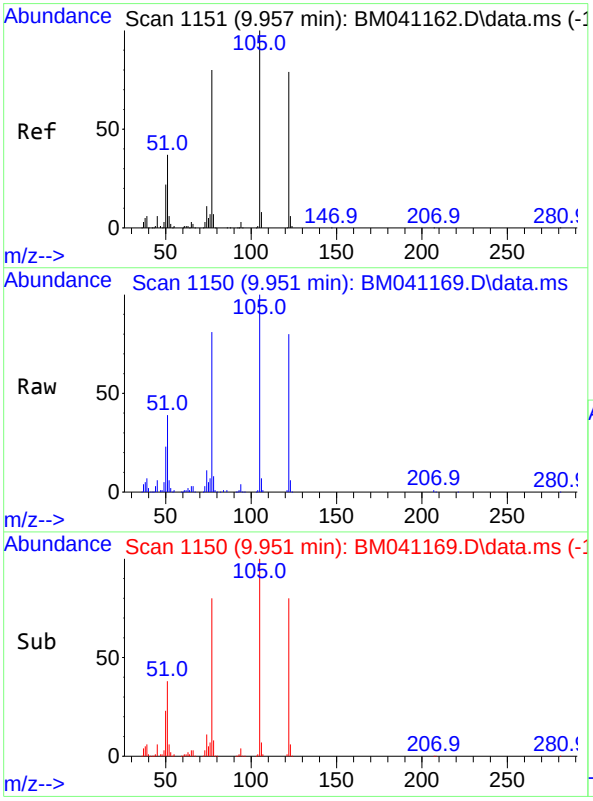
Tgt Ion:128 Resp: 139846

Ion	Ratio	Lower	Upper
128	100		
129	10.9	9.0	13.4
127	13.1	10.5	15.7



Instrument :
BNA_M
ClientSampleId :
SSTDCCC040

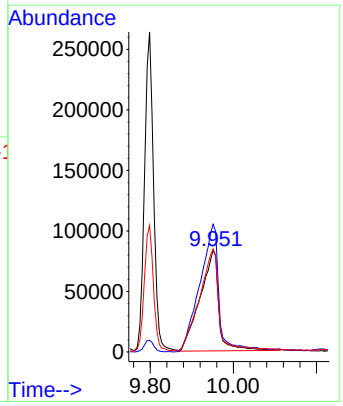
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

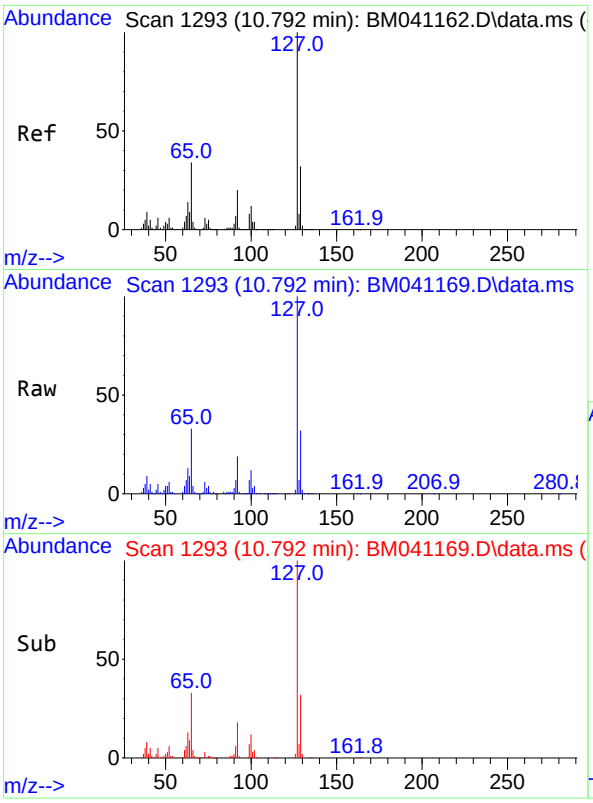


#32
Benzoic acid
Concen: 41.209 ng
RT: 9.951 min Scan# 1150
Delta R.T. -0.006 min
Lab File: BM041169.D
Acq: 28 Jul 2023 17:11

Tgt Ion:122 Resp: 261468

Ion	Ratio	Lower	Upper
122	100		
105	125.7	104.0	144.0
77	101.4	79.9	119.9

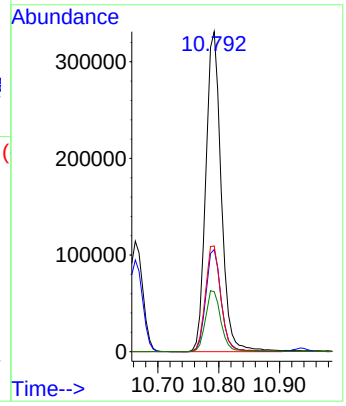




#33
4-Chloroaniline
Concen: 46.168 ng
RT: 10.792 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM041169.D
Acq: 28 Jul 2023 17:11

Tgt Ion:127 Resp: 58225

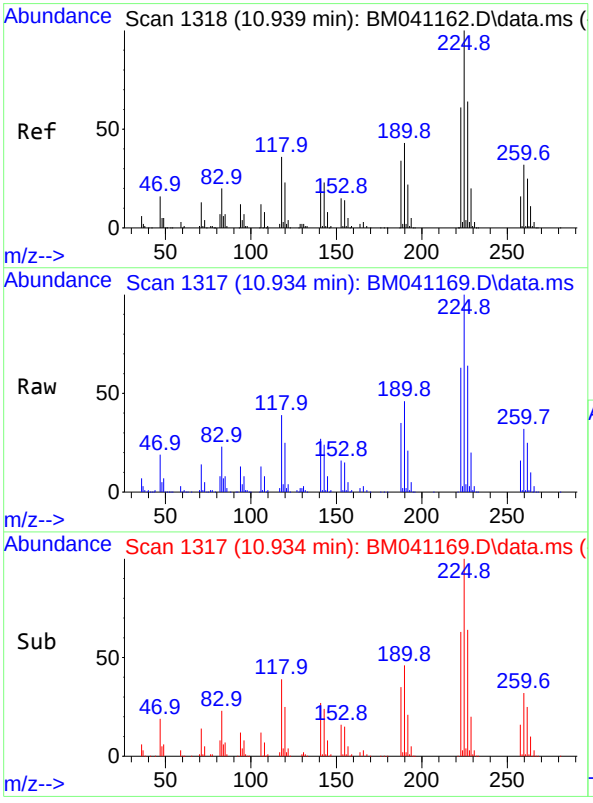
Ion	Ratio	Lower	Upper
127	100		
129	31.9	25.9	38.9
65	33.1	26.9	40.3
92	18.7	15.8	23.6



Instrument :
BNA_M
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

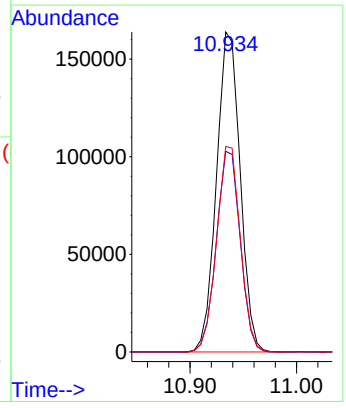
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

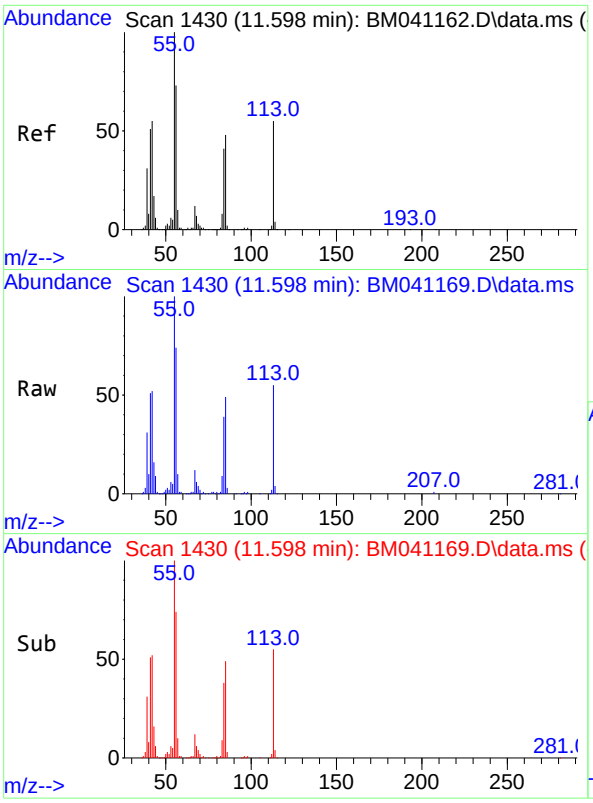


#34
Hexachlorobutadiene
Concen: 43.349 ng
RT: 10.934 min Scan# 1317
Delta R.T. -0.006 min
Lab File: BM041169.D
Acq: 28 Jul 2023 17:11

Tgt Ion:225 Resp: 252697

Ion	Ratio	Lower	Upper
225	100		
223	62.7	49.0	73.4
227	64.2	50.8	76.2

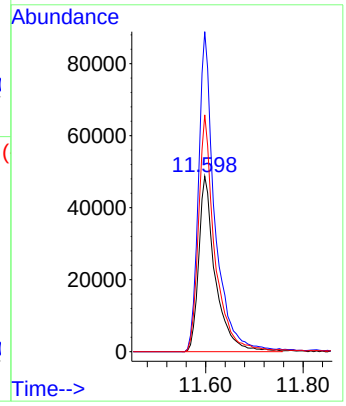




#35
Caprolactam
Concen: 45.606 ng
RT: 11.598 min Scan# 14
Delta R.T. 0.000 min
Lab File: BM041169.D
Acq: 28 Jul 2023 17:11

Tgt Ion:113 Resp: 11573

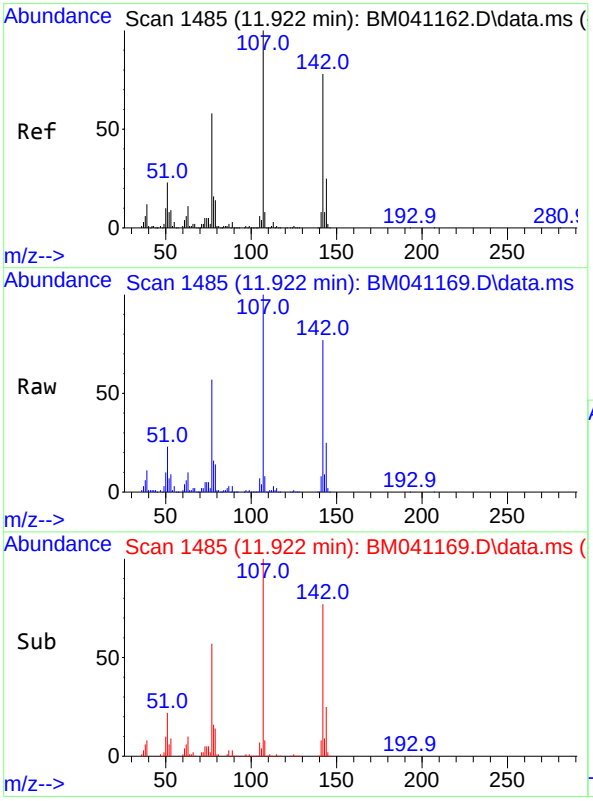
Ion	Ratio	Lower	Upper
113	100		
55	182.5	162.5	202.5
56	135.0	114.1	154.1



Instrument :
BNA_M
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

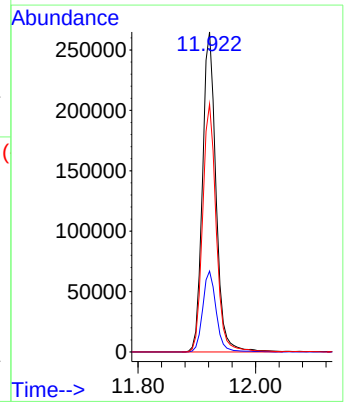
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

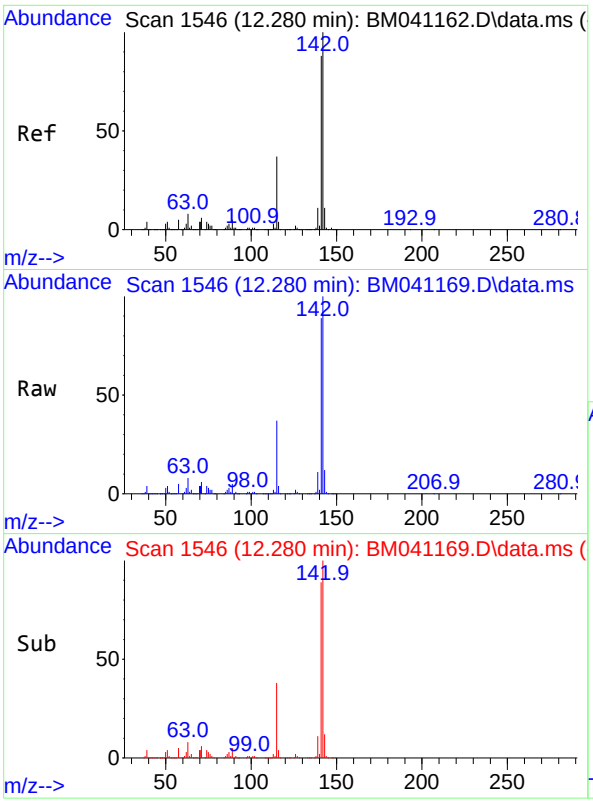


#36
4-Chloro-3-methylphenol
Concen: 45.697 ng
RT: 11.922 min Scan# 1485
Delta R.T. 0.000 min
Lab File: BM041169.D
Acq: 28 Jul 2023 17:11

Tgt Ion:107 Resp: 421945

Ion	Ratio	Lower	Upper
107	100		
144	25.2	20.1	30.1
142	77.5	62.2	93.4

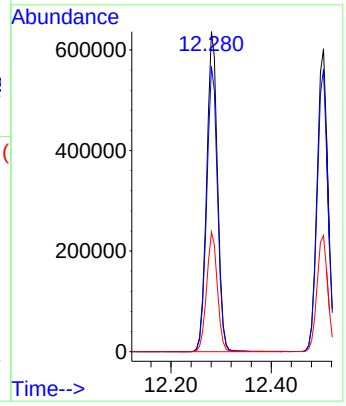




#37
2-Methylnaphthalene
Concen: 44.972 ng
RT: 12.280 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM041169.D
Acq: 28 Jul 2023 17:11

Tgt Ion:142 Resp: 95680

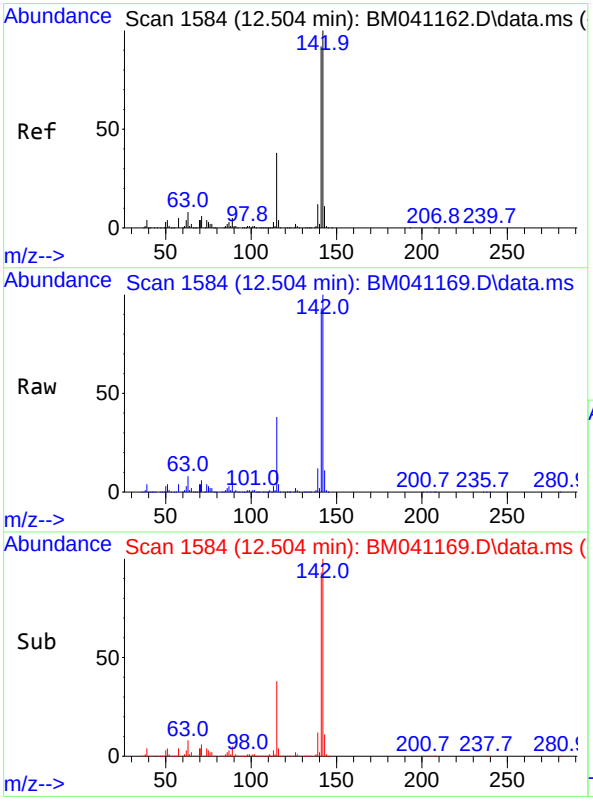
Ion	Ratio	Lower	Upper
142	100		
141	89.1	70.7	106.1
115	37.4	29.3	43.9



Instrument :
BNA_M
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

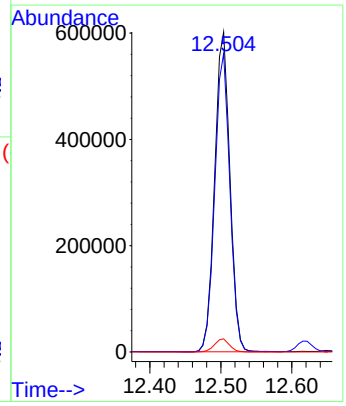
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

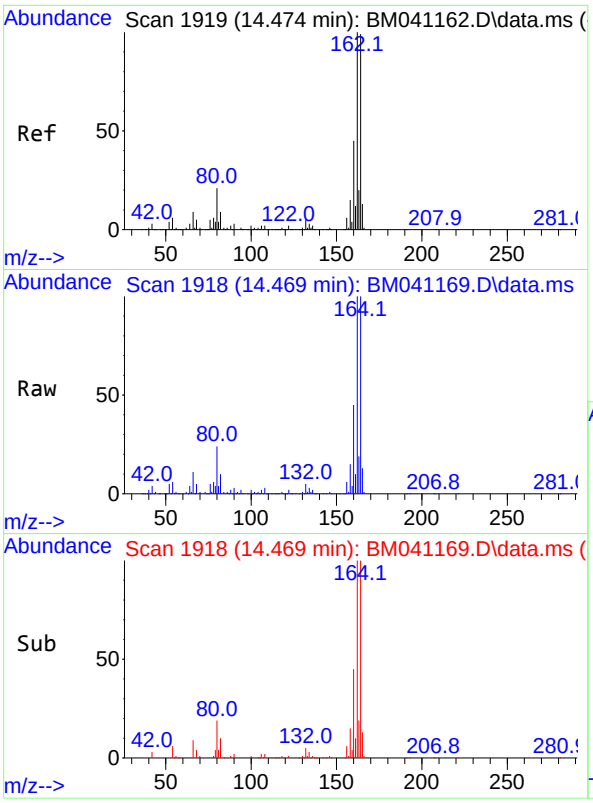


#38
1-Methylnaphthalene
Concen: 44.975 ng
RT: 12.504 min Scan# 1584
Delta R.T. 0.000 min
Lab File: BM041169.D
Acq: 28 Jul 2023 17:11

Tgt Ion:142 Resp: 895573

Ion	Ratio	Lower	Upper
142	100		
141	93.3	73.4	110.2
116	4.1	3.2	4.8

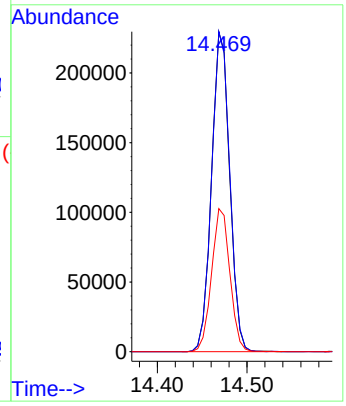




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.469 min Scan# 1
Delta R.T. -0.005 min
Lab File: BM041169.D
Acq: 28 Jul 2023 17:11

Tgt Ion:164 Resp: 32127

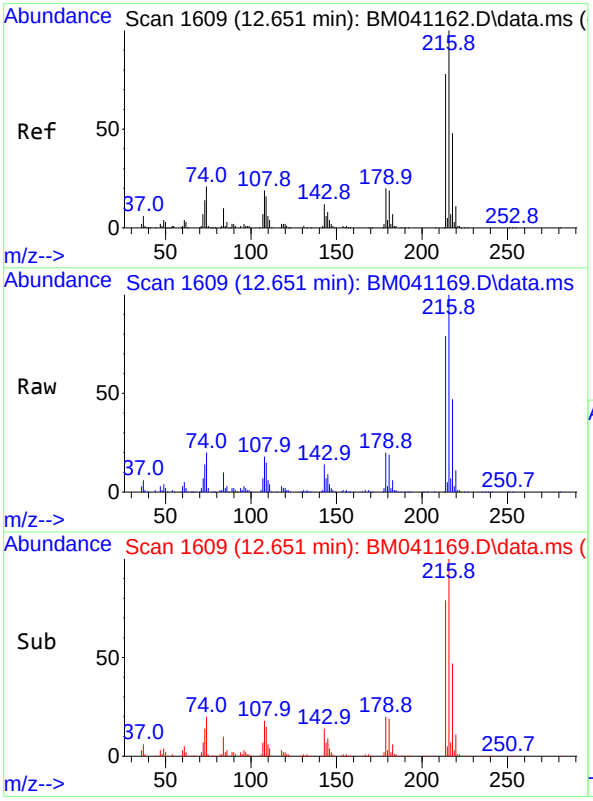
Ion	Ratio	Lower	Upper
164	100		
162	100.1	80.4	120.6
160	44.8	36.2	54.2



Instrument :
BNA_M
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

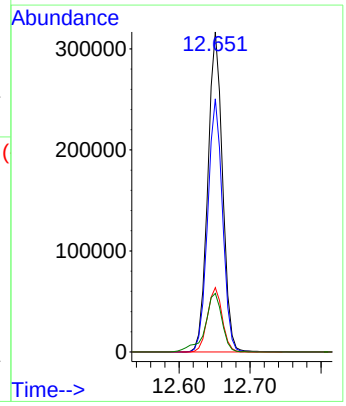
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

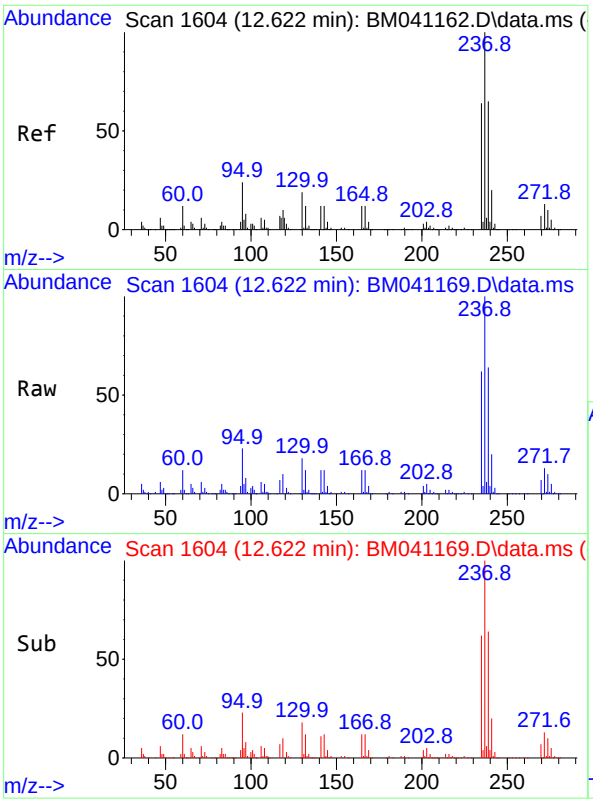


#40
1,2,4,5-Tetrachlorobenzene
Concen: 43.823 ng
RT: 12.651 min Scan# 1609
Delta R.T. 0.000 min
Lab File: BM041169.D
Acq: 28 Jul 2023 17:11

Tgt Ion:216 Resp: 457177

Ion	Ratio	Lower	Upper
216	100		
214	79.3	63.2	94.8
179	20.2	16.2	24.2
108	21.1	17.0	25.4

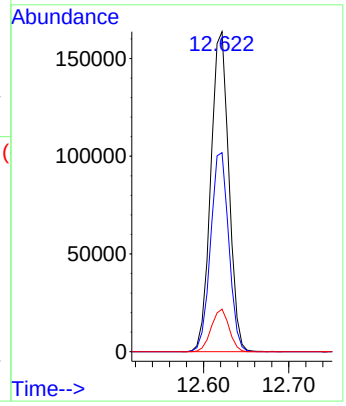




#41
Hexachlorocyclopentadiene
Concen: 43.705 ng
RT: 12.622 min Scan# 1
Delta R.T. -0.000 min
Lab File: BM041169.D
Acq: 28 Jul 2023 17:11

Tgt Ion:237 Resp: 24121

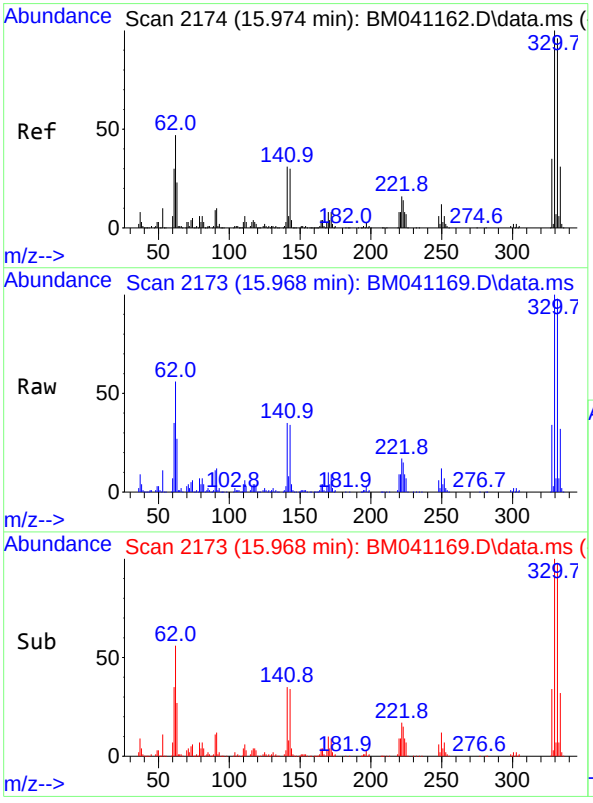
Ion	Ratio	Lower	Upper
237	100		
235	62.2	43.6	83.6
272	13.3	0.0	33.3



Instrument :
BNA_M
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

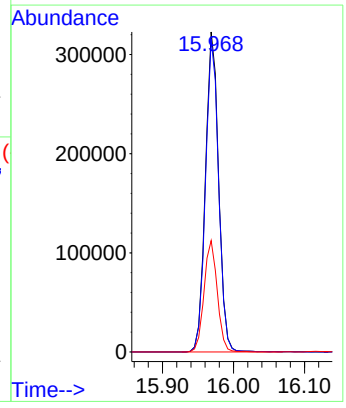
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

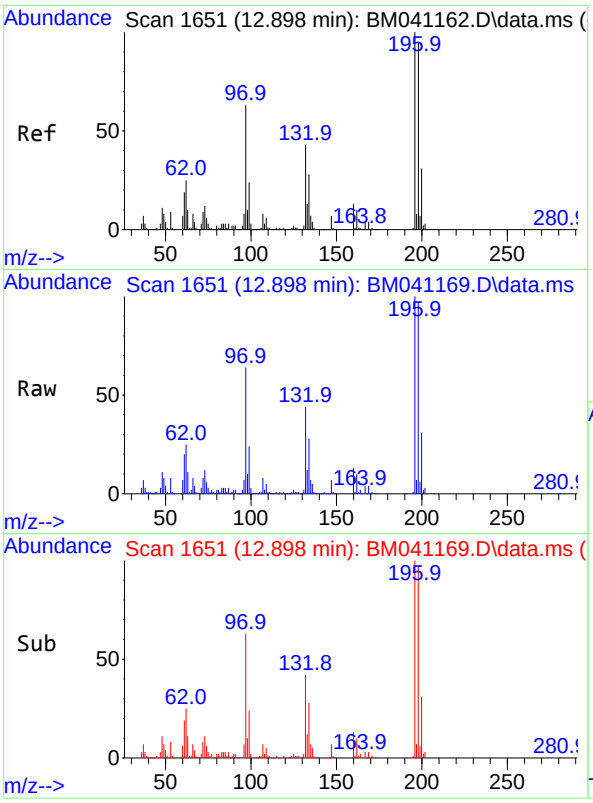


#42
2,4,6-Tribromophenol
Concen: 91.935 ng
RT: 15.968 min Scan# 2173
Delta R.T. -0.006 min
Lab File: BM041169.D
Acq: 28 Jul 2023 17:11

Tgt Ion:330 Resp: 417779

Ion	Ratio	Lower	Upper
330	100		
332	97.2	77.7	116.5
141	34.9	28.3	42.5

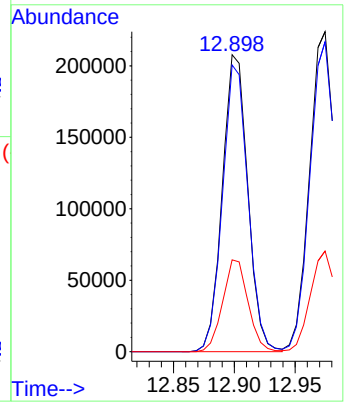




#43
2,4,6-Trichlorophenol
Concen: 45.262 ng
RT: 12.898 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM041169.D
Acq: 28 Jul 2023 17:11

Tgt Ion:196 Resp: 30264

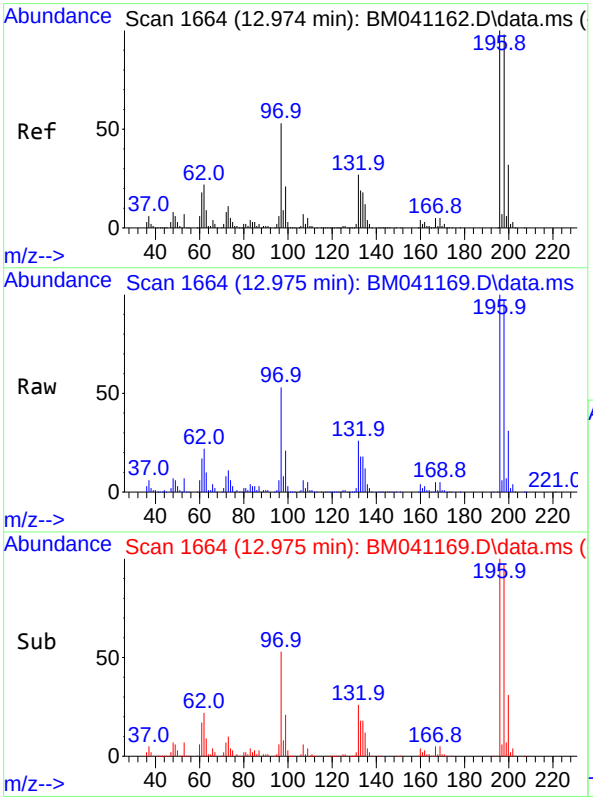
Ion	Ratio	Lower	Upper
196	100		
198	96.6	76.2	114.4
200	30.9	24.6	36.8



Instrument :
BNA_M
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

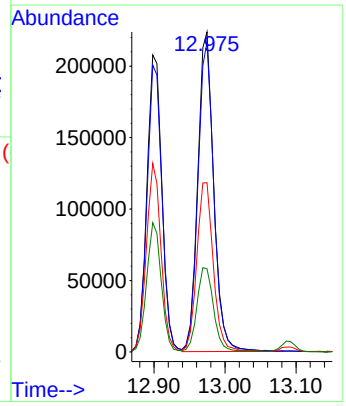
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

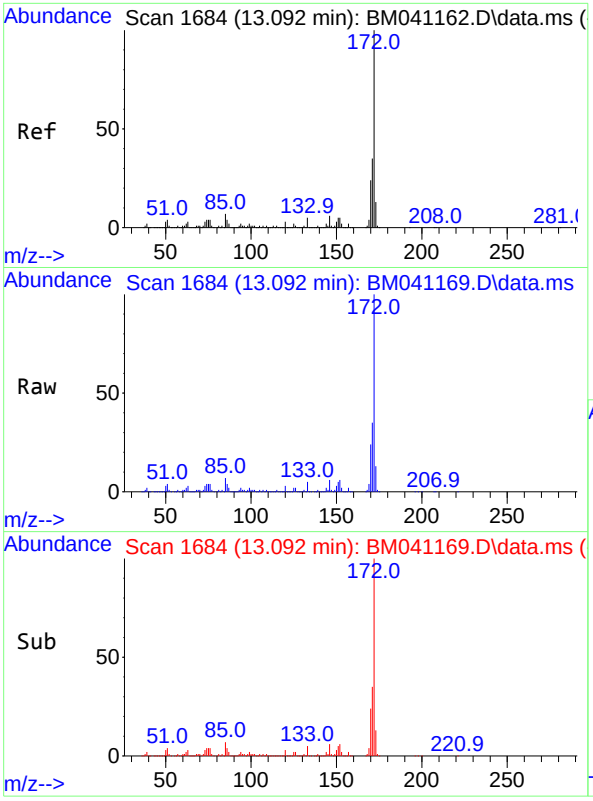


#44
2,4,5-Trichlorophenol
Concen: 45.276 ng
RT: 12.975 min Scan# 1664
Delta R.T. 0.001 min
Lab File: BM041169.D
Acq: 28 Jul 2023 17:11

Tgt Ion:196 Resp: 350392

Ion	Ratio	Lower	Upper
196	100		
198	96.9	78.2	117.4
97	52.9	42.7	64.1
132	26.0	21.6	32.4

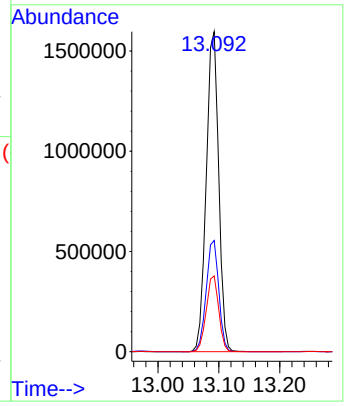




#45
2-Fluorobiphenyl
Concen: 88.936 ng
RT: 13.092 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BM041169.D
Acq: 28 Jul 2023 17:11

Tgt Ion:172 Resp: 226188(

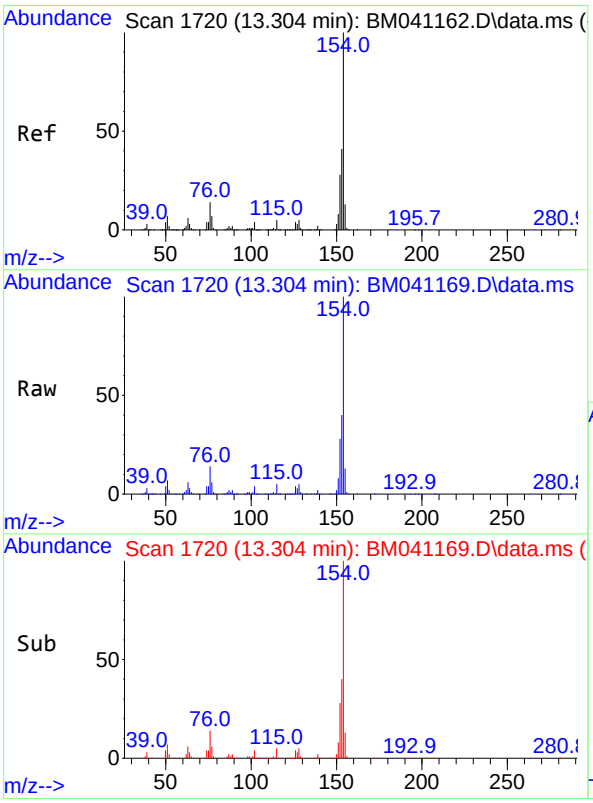
Ion	Ratio	Lower	Upper
172	100		
171	34.8	28.1	42.1
170	23.7	18.9	28.3



Instrument :
BNA_M
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

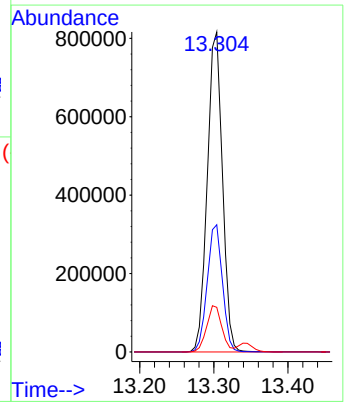
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

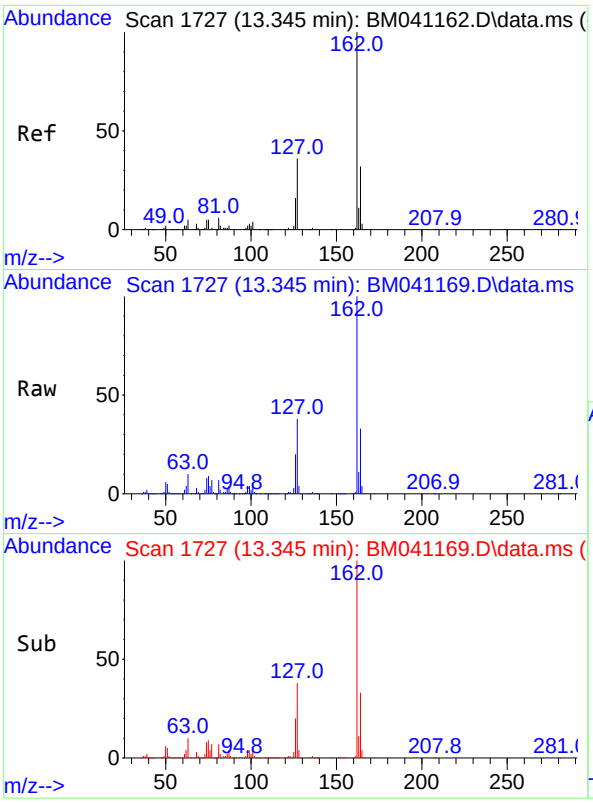


#46
1,1'-Biphenyl
Concen: 44.536 ng
RT: 13.304 min Scan# 1720
Delta R.T. 0.000 min
Lab File: BM041169.D
Acq: 28 Jul 2023 17:11

Tgt Ion:154 Resp: 1159963

Ion	Ratio	Lower	Upper
154	100		
153	39.8	20.5	60.5
76	13.9	0.0	34.1

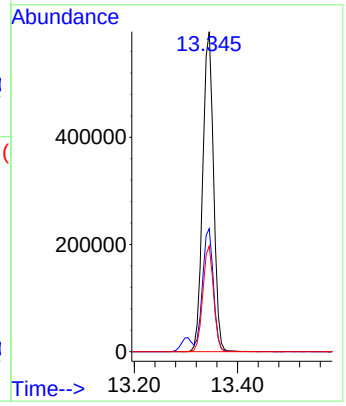




#47
2-Chloronaphthalene
Concen: 44.644 ng
RT: 13.345 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM041169.D
Acq: 28 Jul 2023 17:11

Tgt Ion:162 Resp: 86821

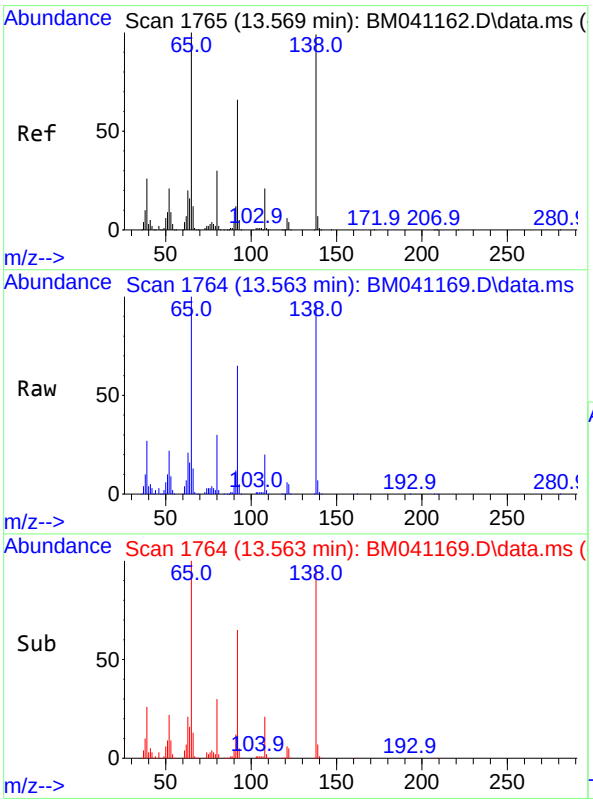
Ion	Ratio	Lower	Upper
162	100		
127	38.5	30.6	45.8
164	33.0	25.6	38.4



Instrument :
BNA_M
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

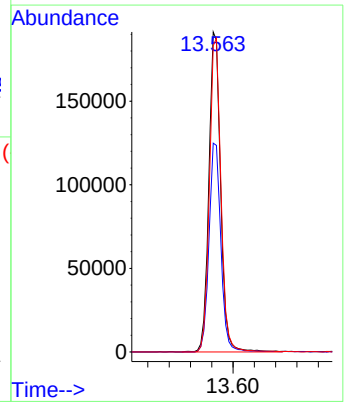
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

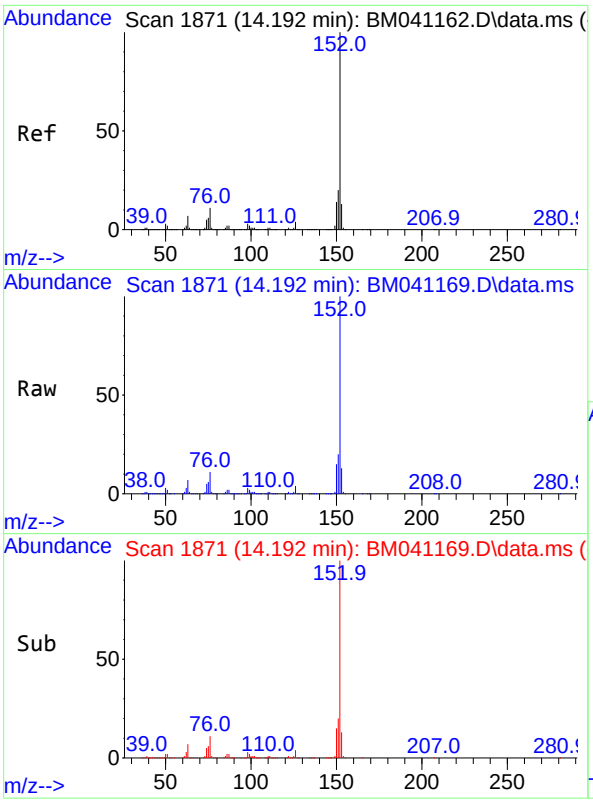


#48
2-Nitroaniline
Concen: 47.246 ng
RT: 13.563 min Scan# 1764
Delta R.T. -0.006 min
Lab File: BM041169.D
Acq: 28 Jul 2023 17:11

Tgt Ion: 65 Resp: 293286

Ion	Ratio	Lower	Upper
65	100		
92	65.3	53.0	79.4
138	95.7	79.1	118.7

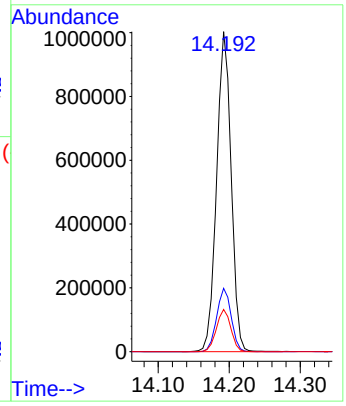




#49
Acenaphthylene
Concen: 45.244 ng
RT: 14.192 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM041169.D
Acq: 28 Jul 2023 17:11

Tgt Ion:152 Resp: 142018

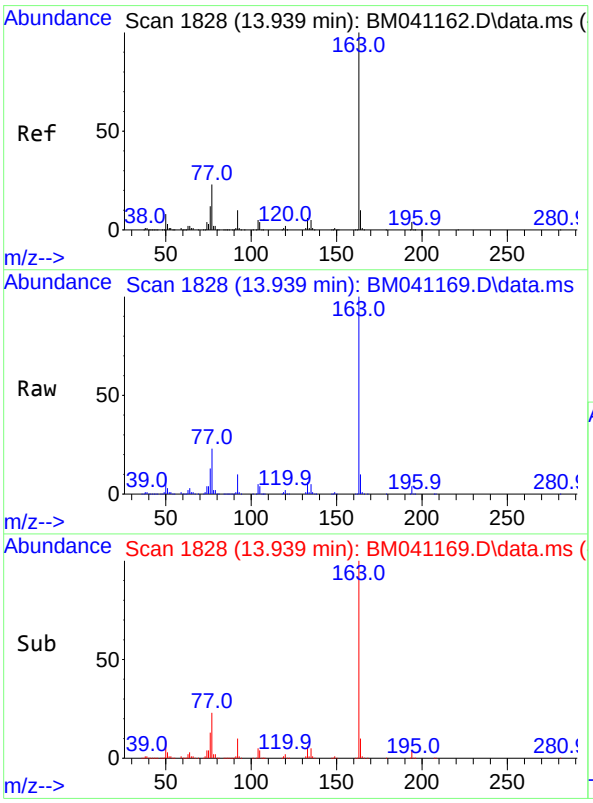
Ion	Ratio	Lower	Upper
152	100		
151	19.8	16.1	24.1
153	13.2	10.5	15.7



Instrument :
BNA_M
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

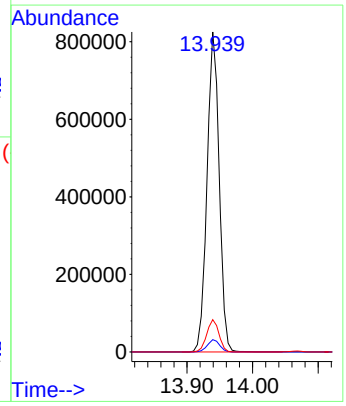
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

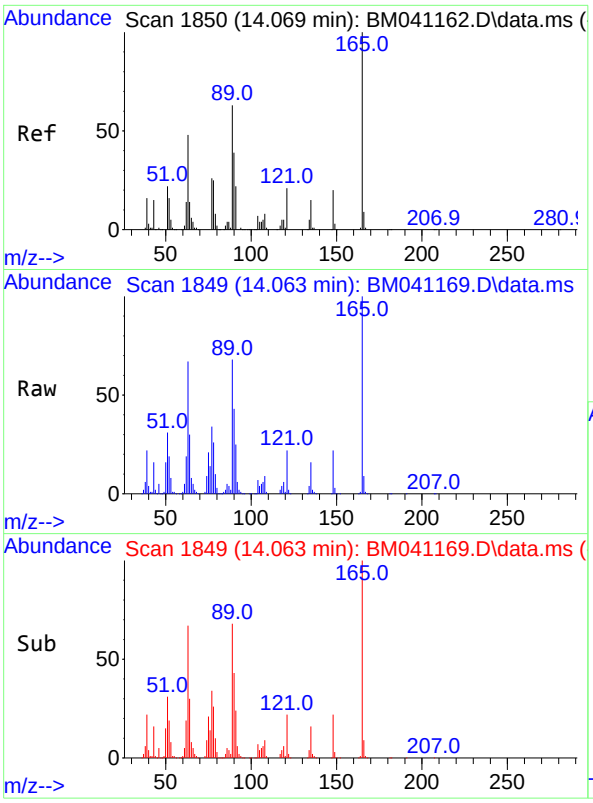


#50
Dimethylphthalate
Concen: 44.077 ng
RT: 13.939 min Scan# 1828
Delta R.T. 0.000 min
Lab File: BM041169.D
Acq: 28 Jul 2023 17:11

Tgt Ion:163 Resp: 1065209

Ion	Ratio	Lower	Upper
163	100		
194	3.9	3.3	4.9
164	10.1	8.3	12.5

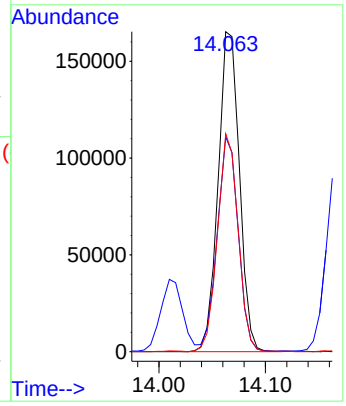




#51
2,6-Dinitrotoluene
Concen: 45.780 ng
RT: 14.063 min Scan# 1
Delta R.T. -0.006 min
Lab File: BM041169.D
Acq: 28 Jul 2023 17:11

Tgt Ion:165 Resp: 22923

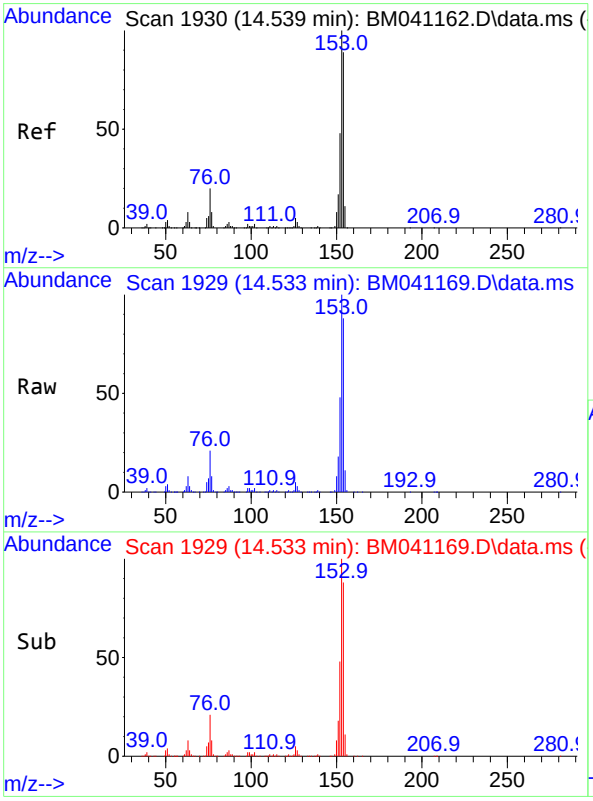
Ion	Ratio	Lower	Upper
165	100		
63	67.1	50.9	76.3
89	68.1	50.6	76.0



Instrument :
BNA_M
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

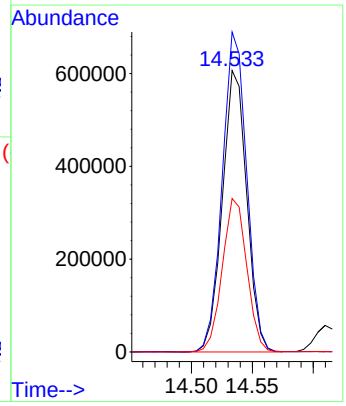
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

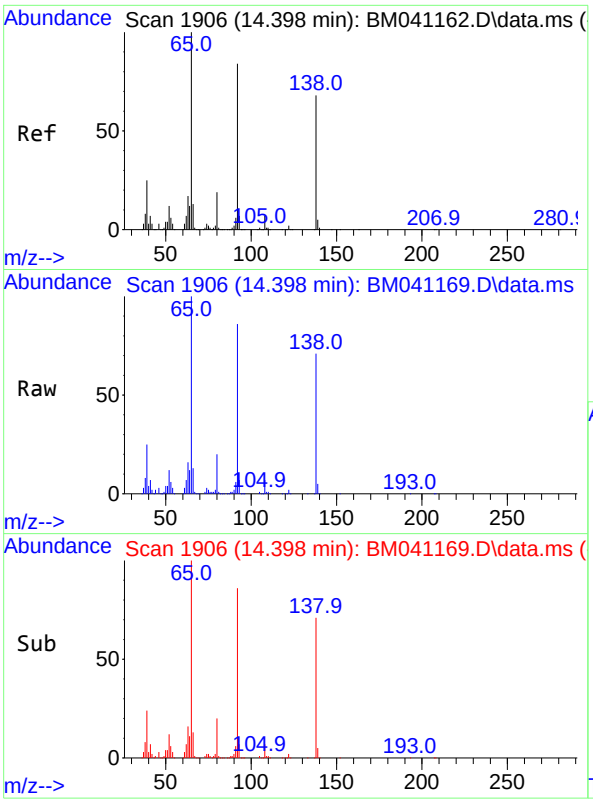


#52
Acenaphthene
Concen: 44.623 ng
RT: 14.533 min Scan# 1929
Delta R.T. -0.006 min
Lab File: BM041169.D
Acq: 28 Jul 2023 17:11

Tgt Ion:154 Resp: 843816

Ion	Ratio	Lower	Upper
154	100		
153	113.7	90.2	135.4
152	54.5	43.4	65.0





#53
3-Nitroaniline
Concen: 43.328 ng
RT: 14.398 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM041169.D
Acq: 28 Jul 2023 17:11

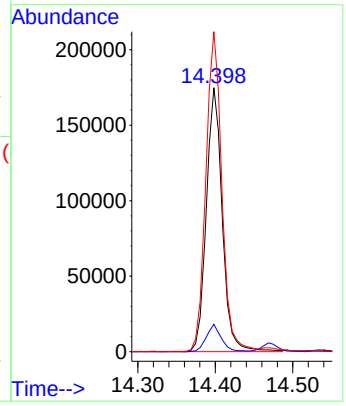
Tgt Ion:138 Resp: 24952

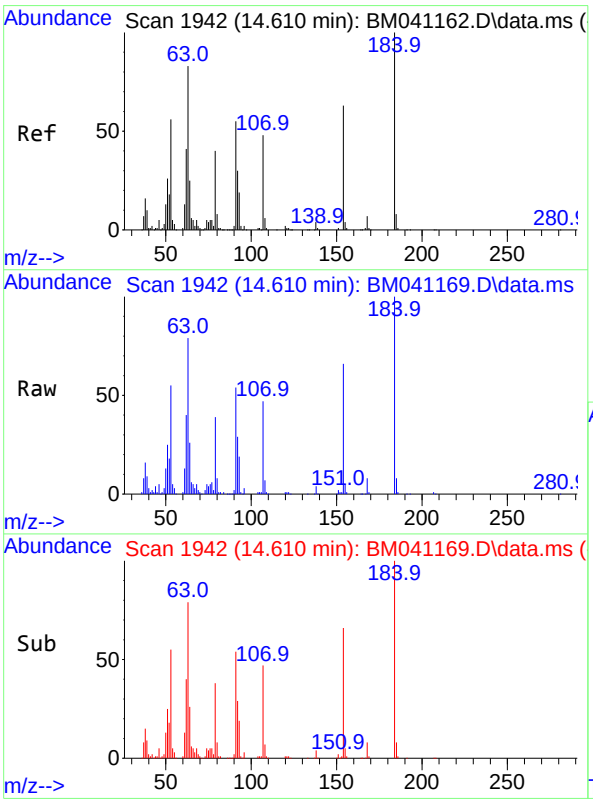
Ion	Ratio	Lower	Upper
138	100		
108	10.4	7.6	11.4
92	121.2	98.9	148.3

Instrument :
BNA_M
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

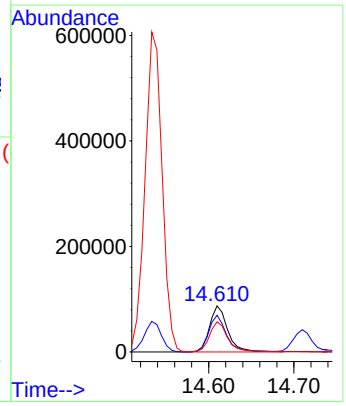


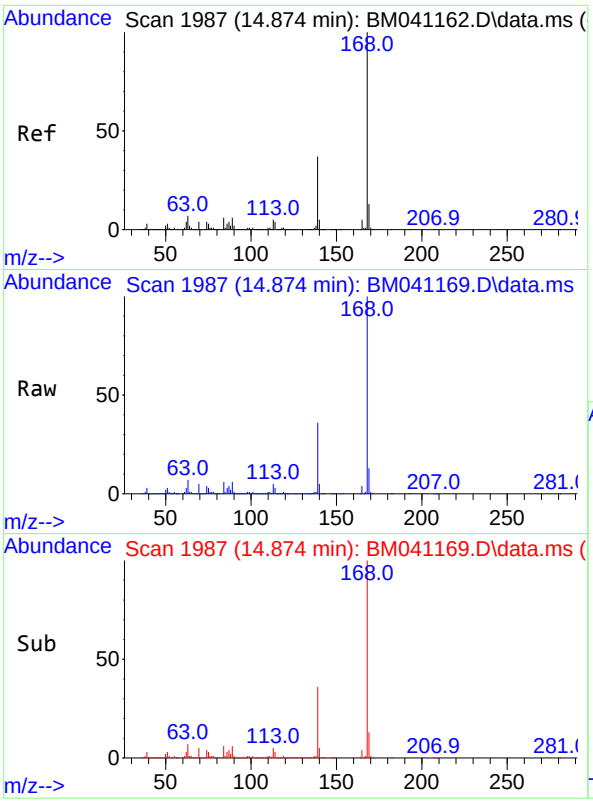


#54
2,4-Dinitrophenol
Concen: 41.047 ng
RT: 14.610 min Scan# 1942
Delta R.T. -0.000 min
Lab File: BM041169.D
Acq: 28 Jul 2023 17:11

Tgt Ion:184 Resp: 128440

Ion	Ratio	Lower	Upper
184	100		
63	79.5	66.5	99.7
154	65.7	52.8	79.2

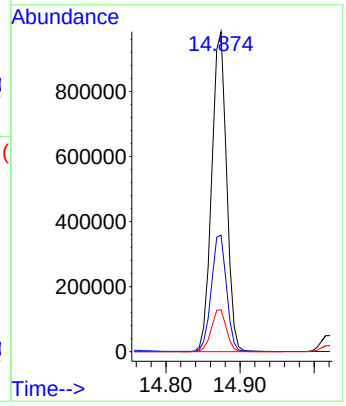




#55
Dibenzofuran
Concen: 44.387 ng
RT: 14.874 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM041169.D
Acq: 28 Jul 2023 17:11

Tgt Ion:168 Resp: 136946

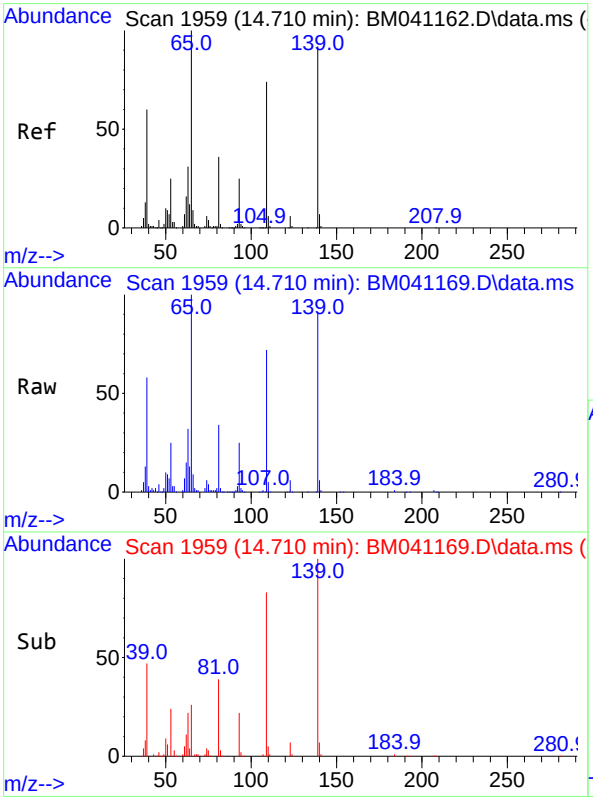
Ion	Ratio	Lower	Upper
168	100		
139	36.4	29.8	44.6
169	13.1	10.5	15.7



Instrument :
BNA_M
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

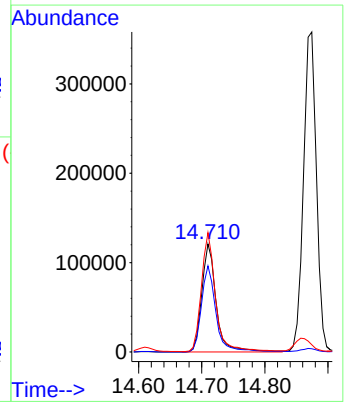
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

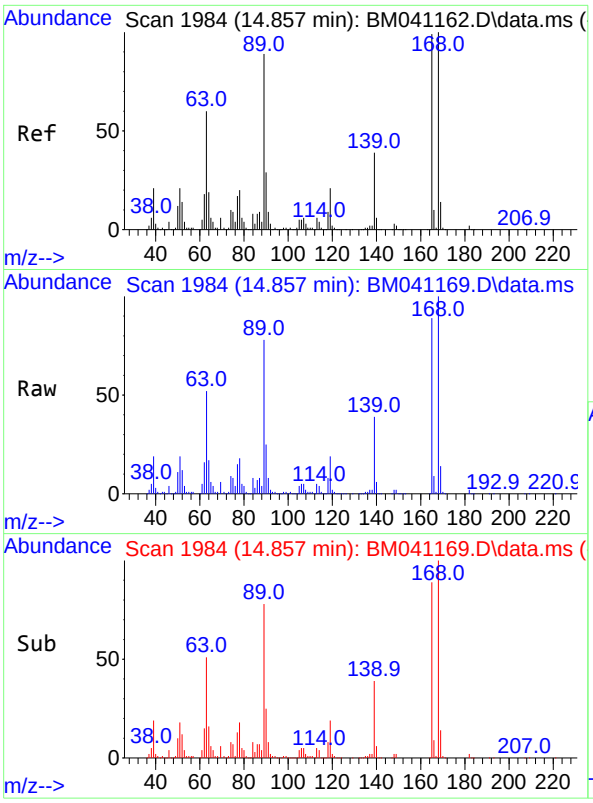


#56
4-Nitrophenol
Concen: 45.842 ng
RT: 14.710 min Scan# 1959
Delta R.T. -0.000 min
Lab File: BM041169.D
Acq: 28 Jul 2023 17:11

Tgt Ion:139 Resp: 191311

Ion	Ratio	Lower	Upper
139	100		
109	79.7	61.2	101.2
65	110.5	89.5	129.5

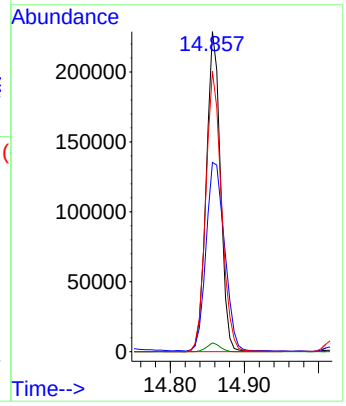




#57
2,4-Dinitrotoluene
Concen: 42.764 ng
RT: 14.857 min Scan# 1
Delta R.T. -0.000 min
Lab File: BM041169.D
Acq: 28 Jul 2023 17:11

Tgt Ion:165 Resp: 30359

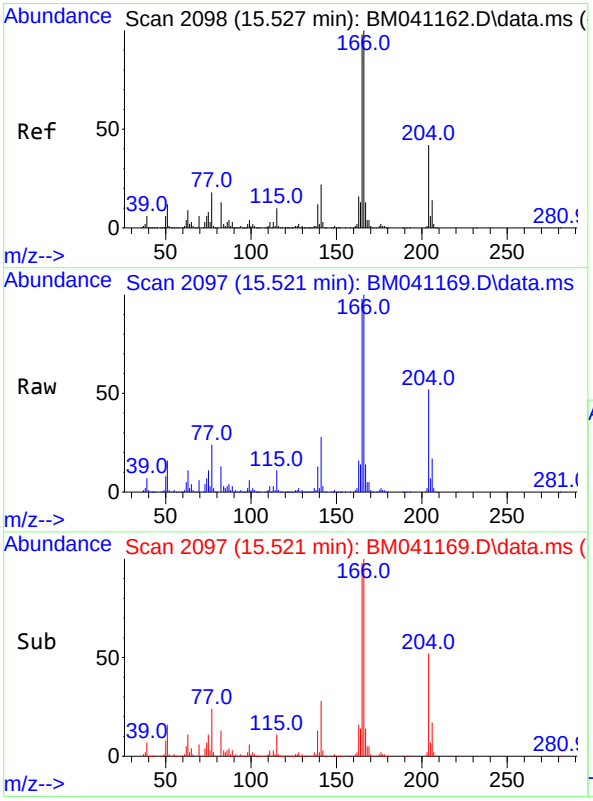
Ion	Ratio	Lower	Upper
165	100		
63	59.2	48.3	72.5
89	87.6	71.8	107.8
182	2.7	2.0	3.0



Instrument :
BNA_M
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

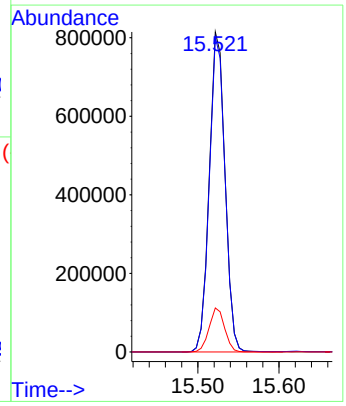
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

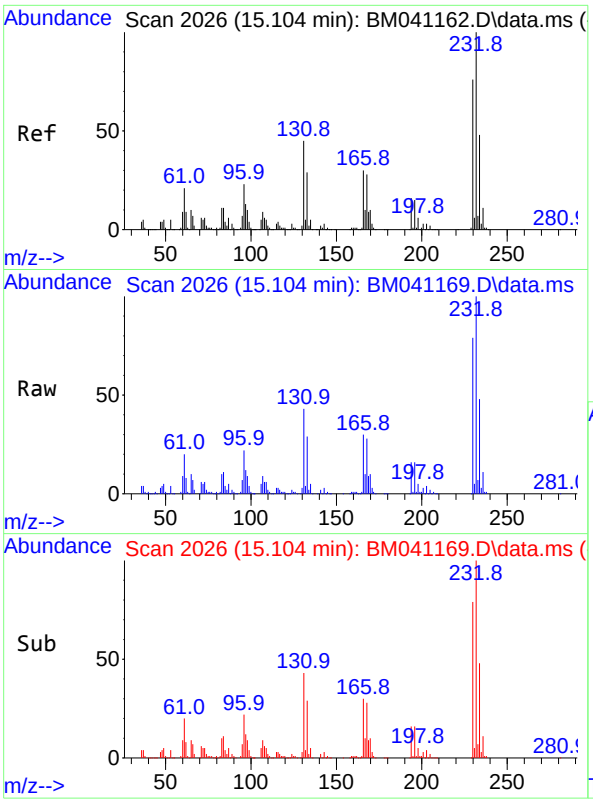


#58
Fluorene
Concen: 44.938 ng
RT: 15.521 min Scan# 2097
Delta R.T. -0.006 min
Lab File: BM041169.D
Acq: 28 Jul 2023 17:11

Tgt Ion:166 Resp: 1093751

Ion	Ratio	Lower	Upper
166	100		
165	98.5	78.2	117.4
167	13.8	10.6	16.0

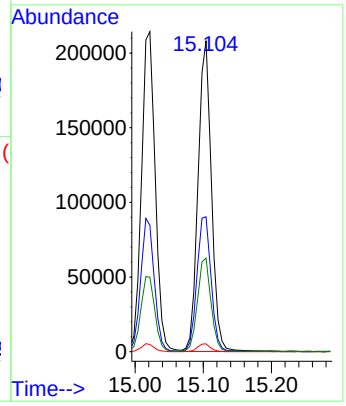




#59
2,3,4,6-Tetrachlorophenol
Concen: 44.977 ng
RT: 15.104 min Scan# 2
Delta R.T. -0.000 min
Lab File: BM041169.D
Acq: 28 Jul 2023 17:11

Tgt Ion:232 Resp: 28186

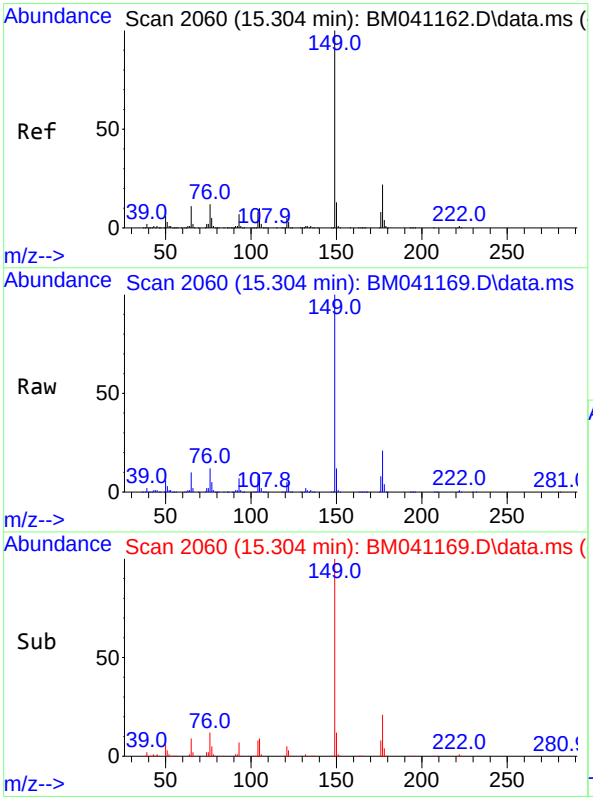
Ion	Ratio	Lower	Upper
232	100		
131	46.0	36.9	55.3
130	2.5	2.0	3.0
166	30.1	24.2	36.2



Instrument :
BNA_M
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

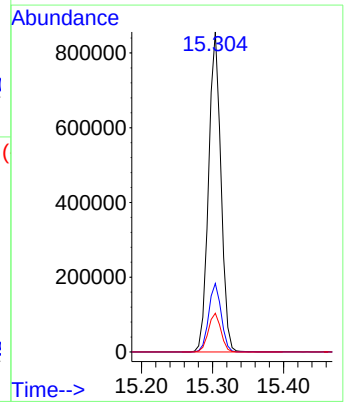
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

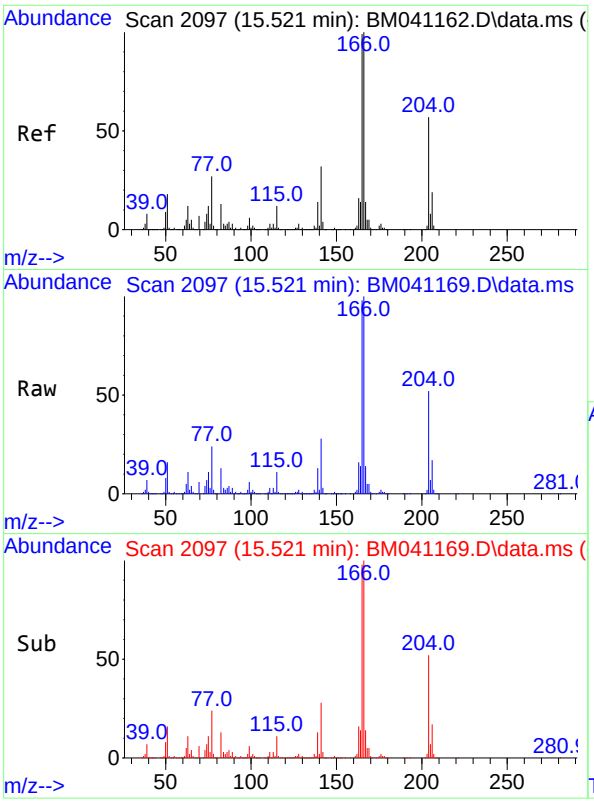


#60
Diethylphthalate
Concen: 44.329 ng
RT: 15.304 min Scan# 2060
Delta R.T. 0.000 min
Lab File: BM041169.D
Acq: 28 Jul 2023 17:11

Tgt Ion:149 Resp: 1035993

Ion	Ratio	Lower	Upper
149	100		
177	21.4	17.5	26.3
150	12.1	10.1	15.1

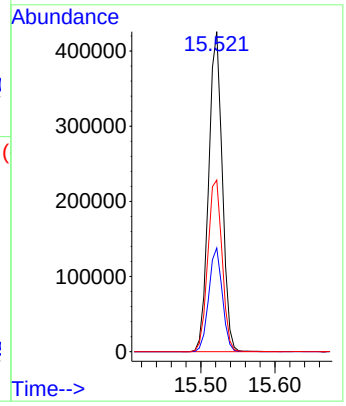




#61
4-Chlorophenyl-phenylether
Concen: 44.652 ng
RT: 15.521 min Scan# 2
Delta R.T. 0.000 min
Lab File: BM041169.D
Acq: 28 Jul 2023 17:11

Tgt Ion:204 Resp: 54459

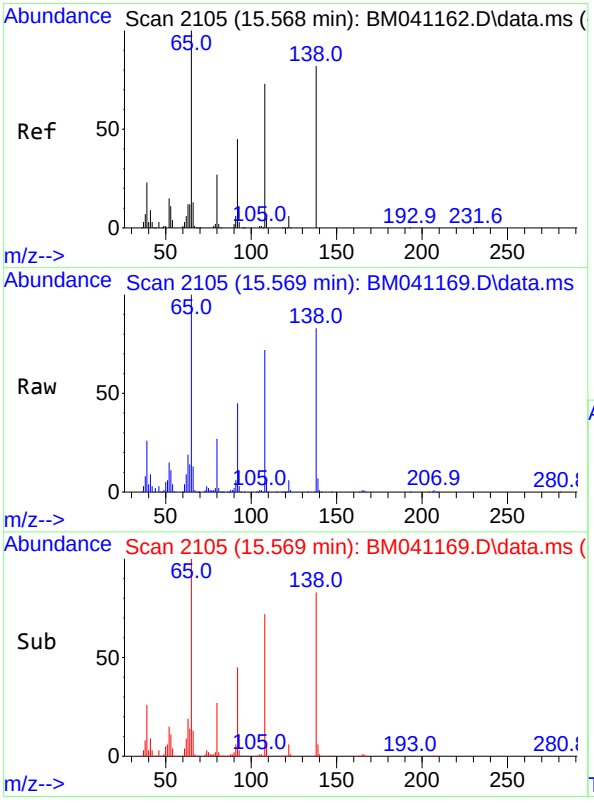
Ion	Ratio	Lower	Upper
204	100		
206	32.4	26.5	39.7
141	53.7	44.8	67.2



Instrument :
BNA_M
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

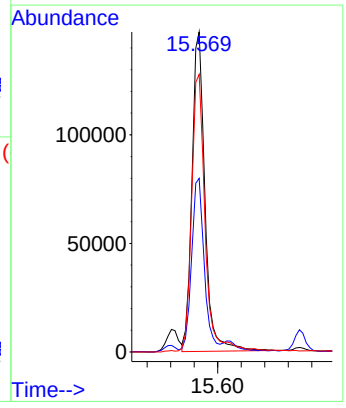
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

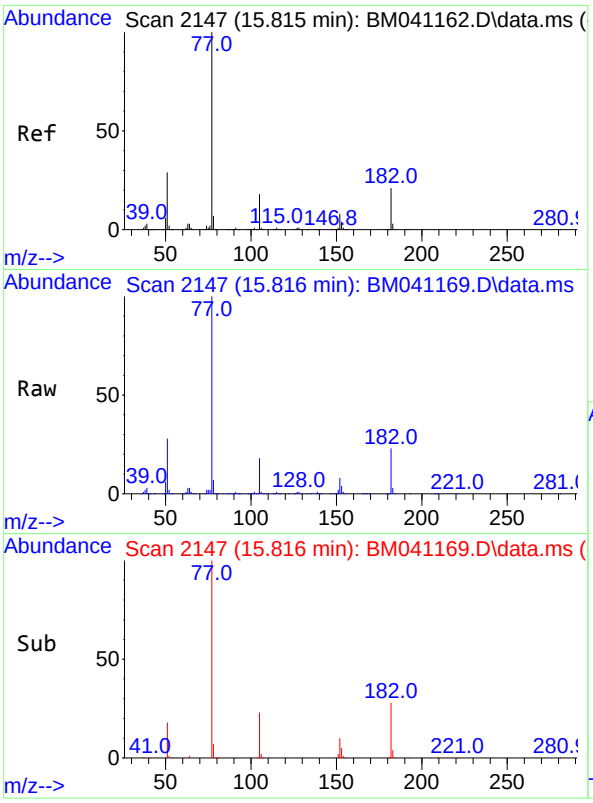


#62
4-Nitroaniline
Concen: 42.723 ng
RT: 15.569 min Scan# 2105
Delta R.T. 0.001 min
Lab File: BM041169.D
Acq: 28 Jul 2023 17:11

Tgt Ion:138 Resp: 225506

Ion	Ratio	Lower	Upper
138	100		
92	54.3	35.1	75.1
108	86.7	67.8	107.8

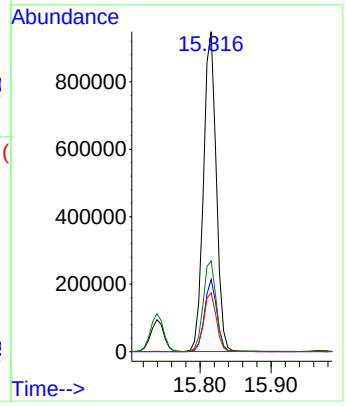




#63
Azobenzene
Concen: 46.262 ng
RT: 15.816 min Scan# 21
Delta R.T. 0.001 min
Lab File: BM041169.D
Acq: 28 Jul 2023 17:11

Tgt Ion: 77 Resp: 118431

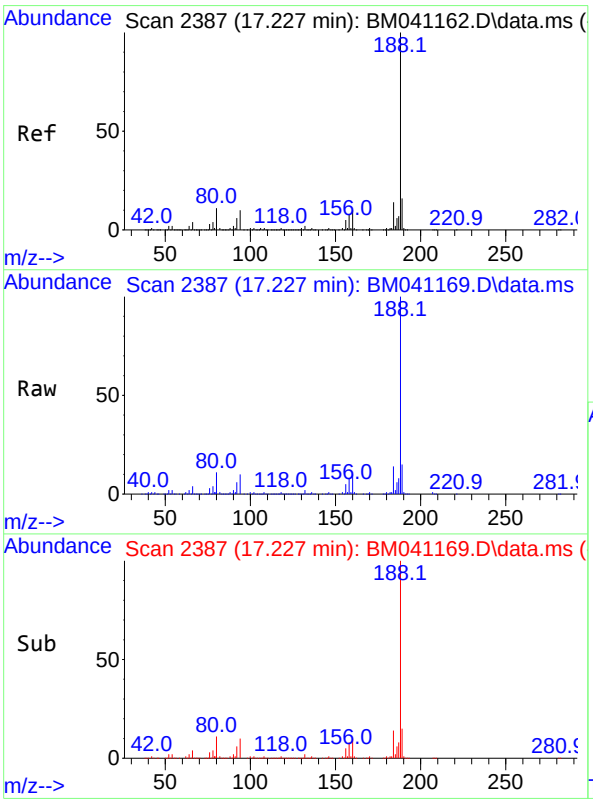
Ion	Ratio	Lower	Upper
77	100		
182	22.6	1.3	41.3
105	18.4	0.0	38.5
51	28.3	9.1	49.1



Instrument :
BNA_M
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

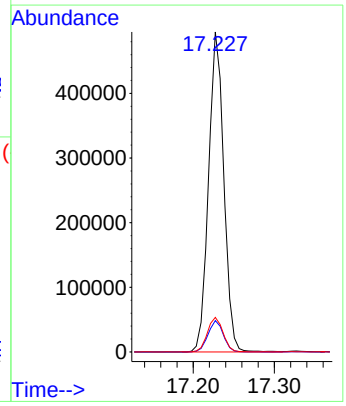
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

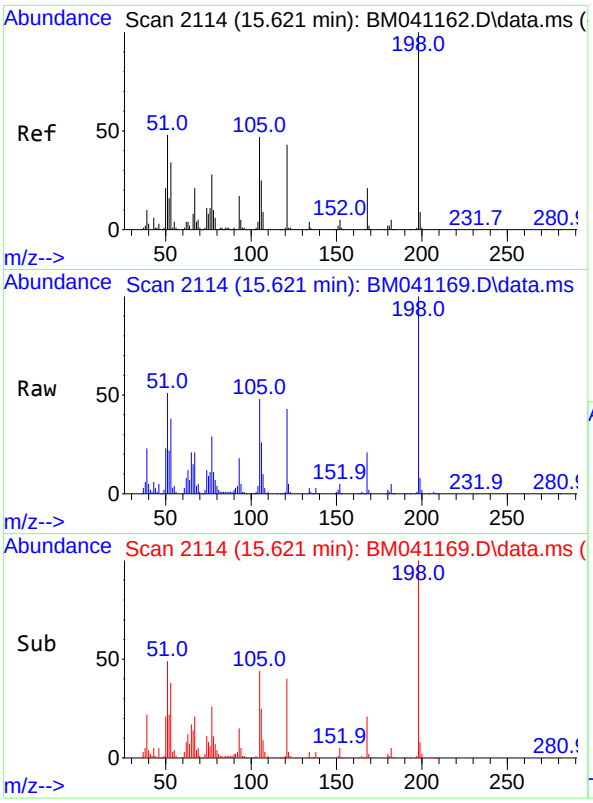


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.227 min Scan# 2387
Delta R.T. 0.000 min
Lab File: BM041169.D
Acq: 28 Jul 2023 17:11

Tgt Ion:188 Resp: 645331

Ion	Ratio	Lower	Upper
188	100		
94	9.8	8.2	12.2
80	10.8	8.6	13.0

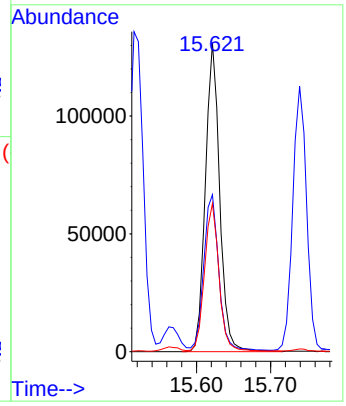




#65
4,6-Dinitro-2-methylphenol
Concen: 44.934 ng
RT: 15.621 min Scan# 2
Delta R.T. 0.000 min
Lab File: BM041169.D
Acq: 28 Jul 2023 17:11

Tgt Ion:198 Resp: 17566

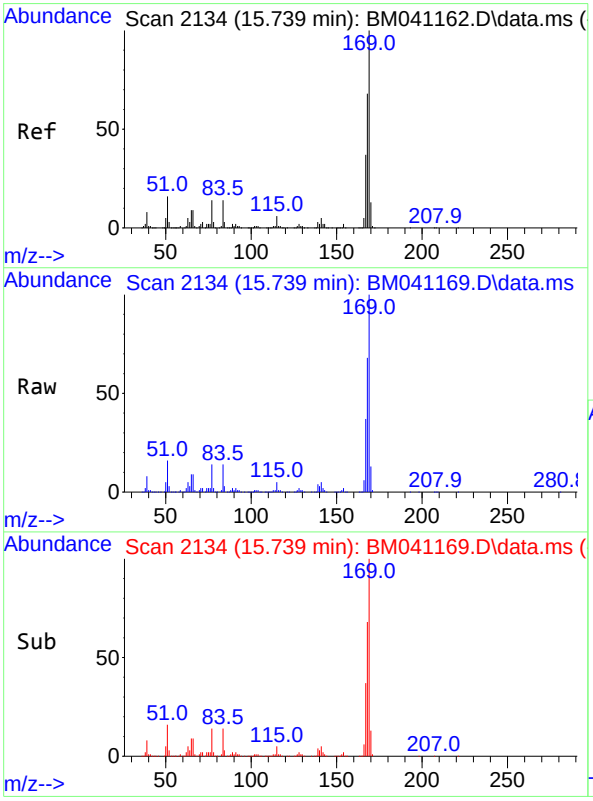
Ion	Ratio	Lower	Upper
198	100		
51	50.8	31.7	71.7
105	47.9	27.8	67.8



Instrument :
BNA_M
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

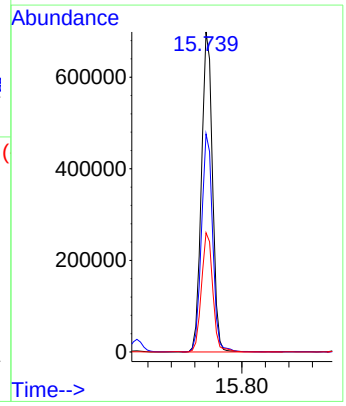
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

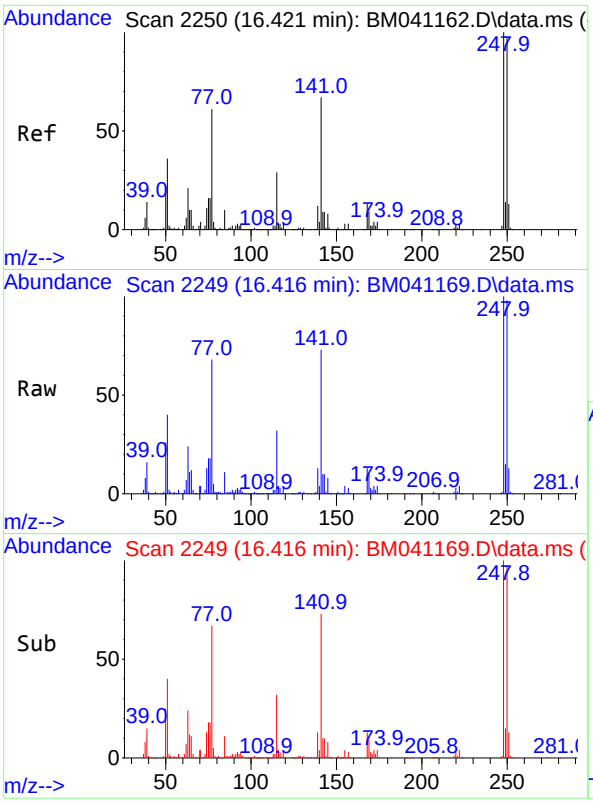


#66
n-Nitrosodiphenylamine
Concen: 45.326 ng
RT: 15.739 min Scan# 2134
Delta R.T. 0.000 min
Lab File: BM041169.D
Acq: 28 Jul 2023 17:11

Tgt Ion:169 Resp: 909713

Ion	Ratio	Lower	Upper
169	100		
168	68.1	54.6	81.8
167	37.2	29.9	44.9

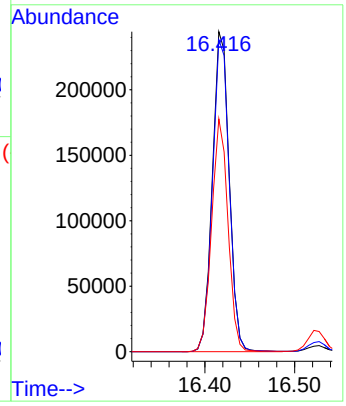




#67
4-Bromophenyl-phenylether
Concen: 44.932 ng
RT: 16.416 min Scan# 2
Delta R.T. -0.006 min
Lab File: BM041169.D
Acq: 28 Jul 2023 17:11

Tgt Ion:248 Resp: 31792

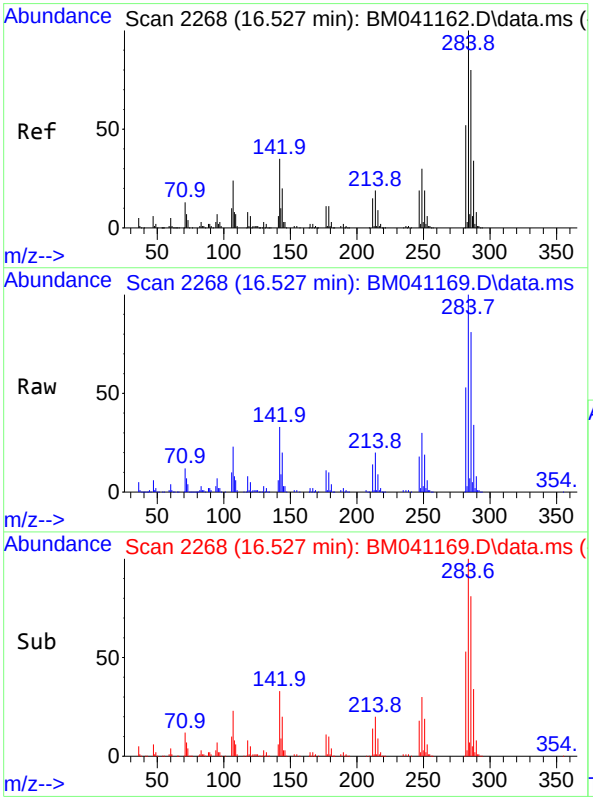
Ion	Ratio	Lower	Upper
248	100		
250	97.5	78.0	117.0
141	72.8	53.8	80.8



Instrument :
BNA_M
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

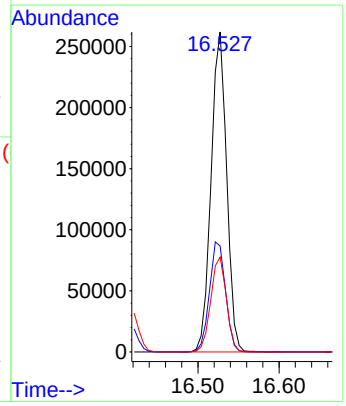
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

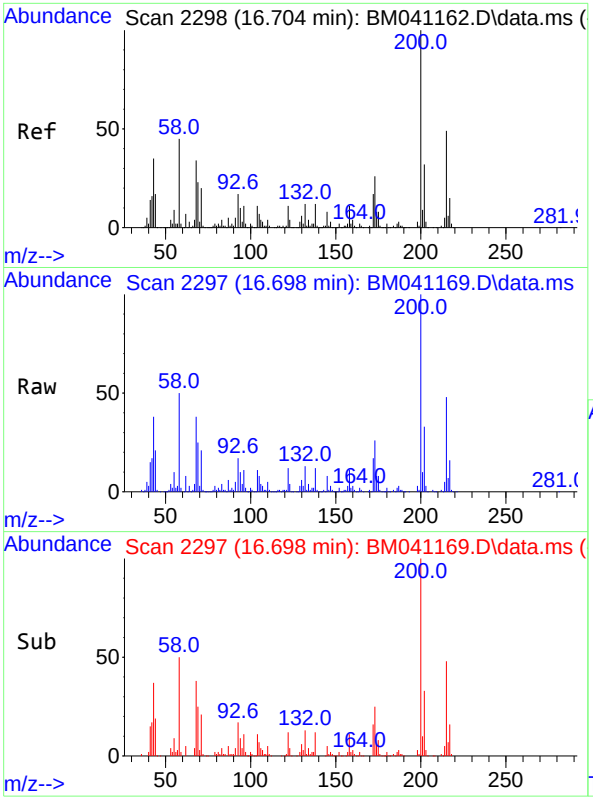


#68
Hexachlorobenzene
Concen: 44.230 ng
RT: 16.527 min Scan# 2268
Delta R.T. 0.000 min
Lab File: BM041169.D
Acq: 28 Jul 2023 17:11

Tgt Ion:284 Resp: 347988

Ion	Ratio	Lower	Upper
284	100		
142	33.1	28.0	42.0
249	29.6	23.7	35.5

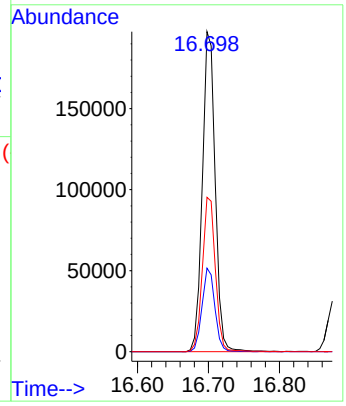




#69
Atrazine
Concen: 47.254 ng
RT: 16.698 min Scan# 2
Delta R.T. -0.006 min
Lab File: BM041169.D
Acq: 28 Jul 2023 17:11

Tgt Ion:200 Resp: 24906

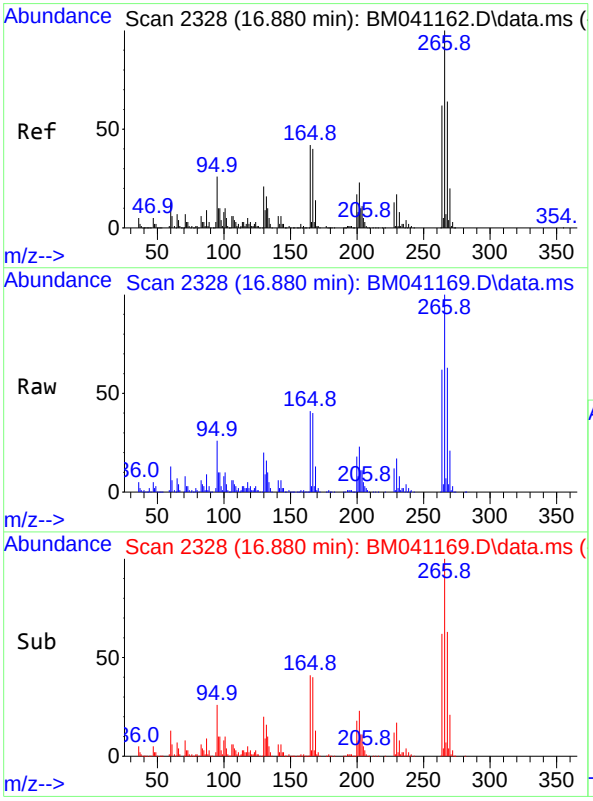
Ion	Ratio	Lower	Upper
200	100		
173	26.1	5.6	45.6
215	48.3	28.5	68.5



Instrument :
BNA_M
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

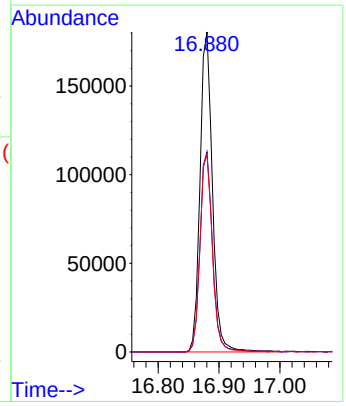
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

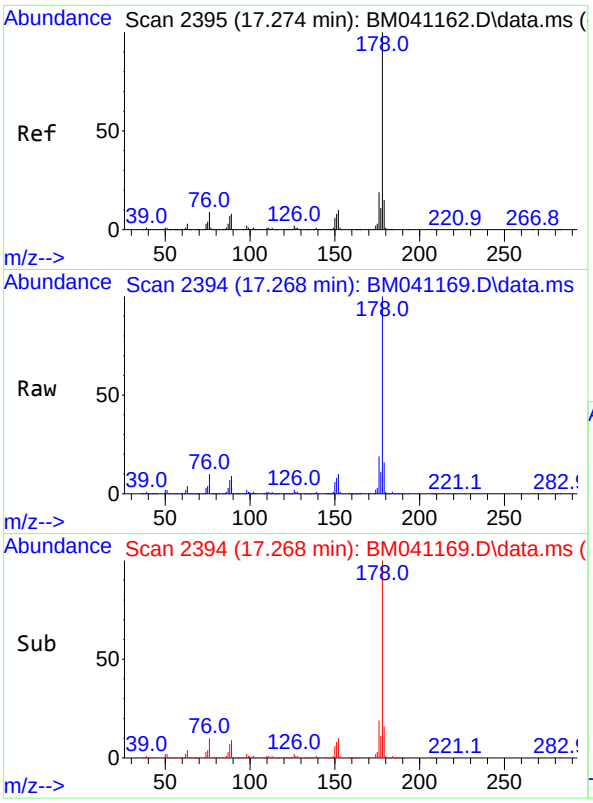


#70
Pentachlorophenol
Concen: 46.884 ng
RT: 16.880 min Scan# 2328
Delta R.T. 0.000 min
Lab File: BM041169.D
Acq: 28 Jul 2023 17:11

Tgt Ion:266 Resp: 255429

Ion	Ratio	Lower	Upper
266	100		
268	62.6	51.0	76.6
264	61.7	49.4	74.2

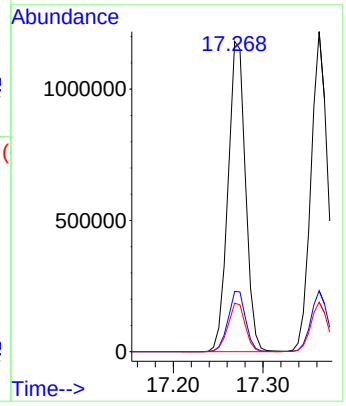




#71
Phenanthrene
Concen: 44.510 ng
RT: 17.268 min Scan# 2
Delta R.T. -0.006 min
Lab File: BM041169.D
Acq: 28 Jul 2023 17:11

Tgt Ion:178 Resp: 159589

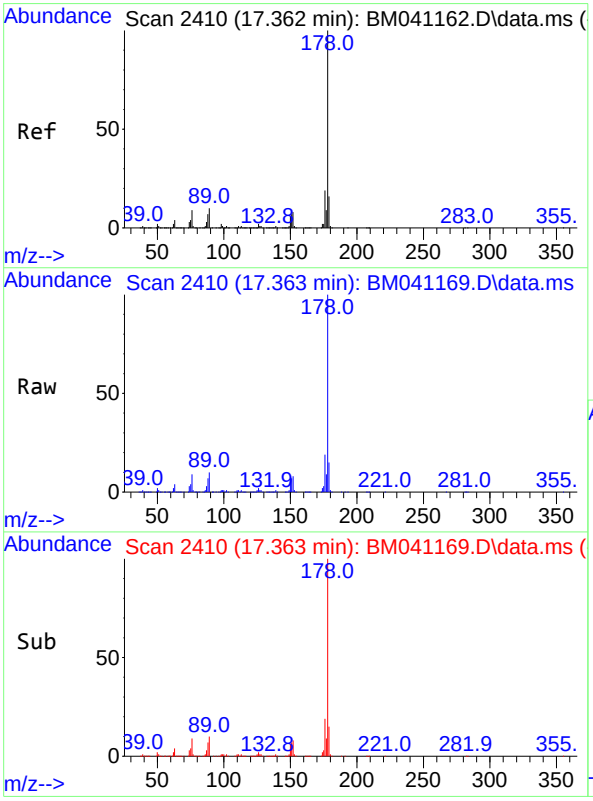
Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.6	23.4
179	15.6	12.1	18.1



Instrument :
BNA_M
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

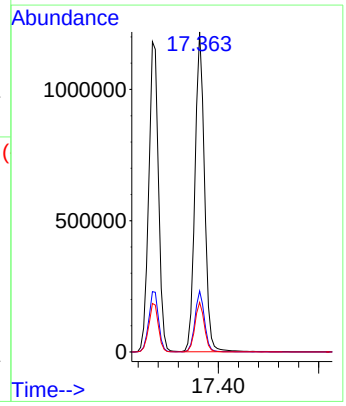
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

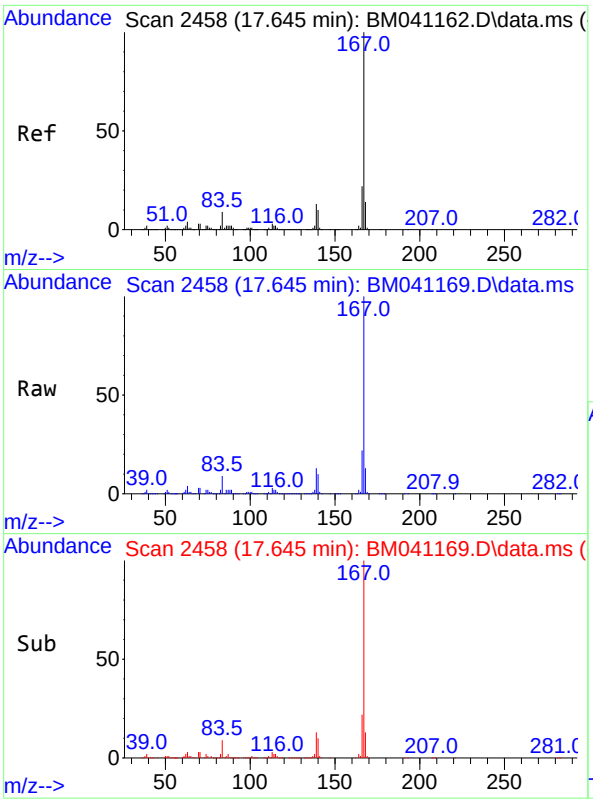


#72
Anthracene
Concen: 45.393 ng
RT: 17.363 min Scan# 2410
Delta R.T. 0.000 min
Lab File: BM041169.D
Acq: 28 Jul 2023 17:11

Tgt Ion:178 Resp: 1609687

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.2	22.8
179	15.5	12.4	18.6

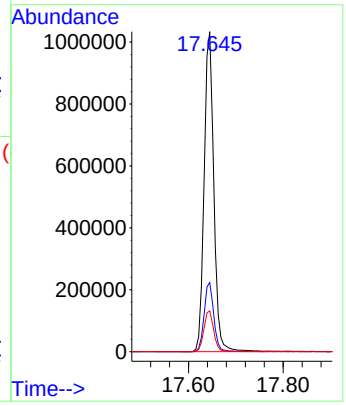




#73
Carbazole
Concen: 45.530 ng
RT: 17.645 min Scan# 24
Delta R.T. -0.000 min
Lab File: BM041169.D
Acq: 28 Jul 2023 17:11

Tgt Ion:167 Resp: 146134

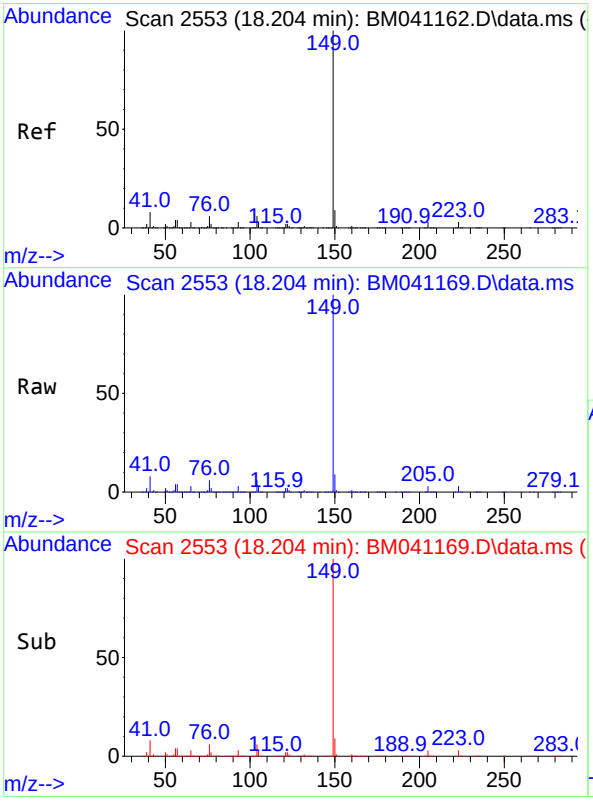
Ion	Ratio	Lower	Upper
167	100		
166	21.6	17.3	25.9
139	12.8	10.3	15.5



Instrument :
BNA_M
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

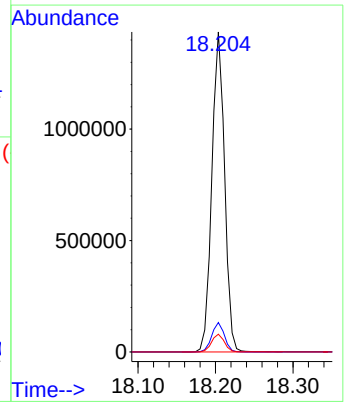
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

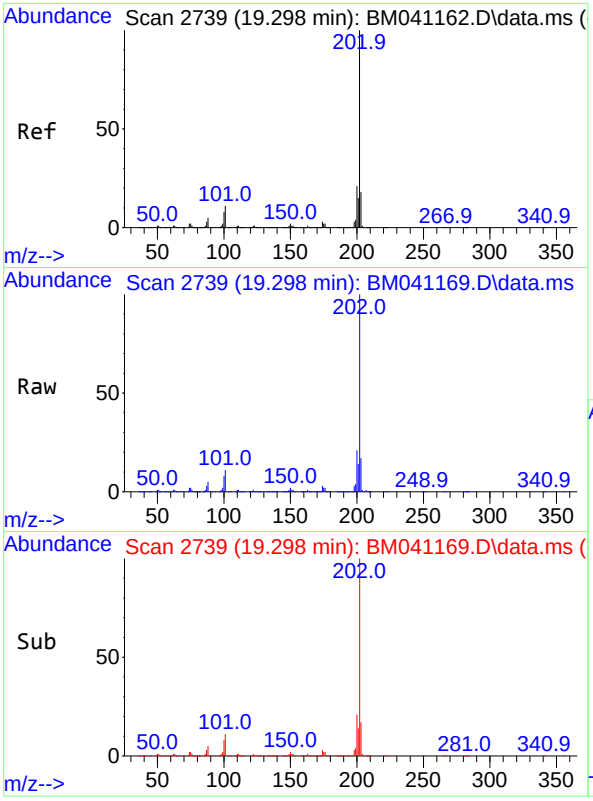


#74
Di-n-butylphthalate
Concen: 45.099 ng
RT: 18.204 min Scan# 2553
Delta R.T. 0.000 min
Lab File: BM041169.D
Acq: 28 Jul 2023 17:11

Tgt Ion:149 Resp: 1635689

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.3	10.9
104	5.5	4.5	6.7

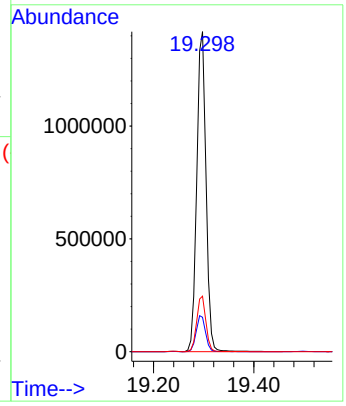




#75
Fluoranthene
Concen: 44.909 ng
RT: 19.298 min Scan# 2
Delta R.T. 0.000 min
Lab File: BM041169.D
Acq: 28 Jul 2023 17:11

Tgt Ion:202 Resp: 180903

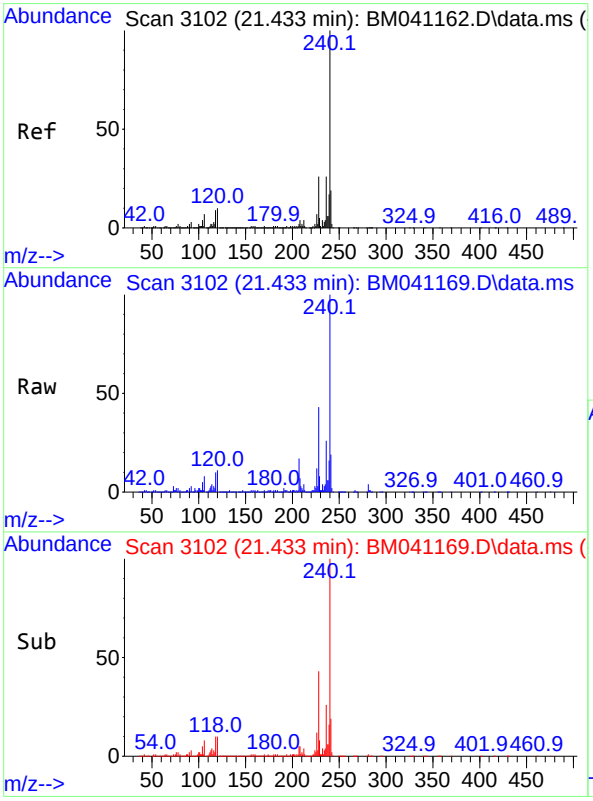
Ion	Ratio	Lower	Upper
202	100		
101	10.7	0.0	30.8
203	17.3	0.0	37.6



Instrument :
BNA_M
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

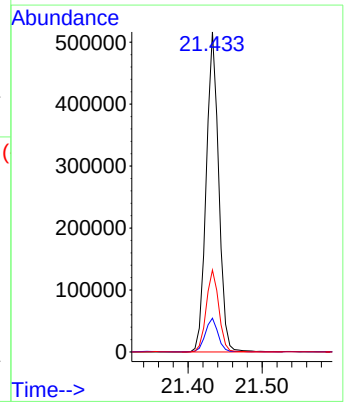
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

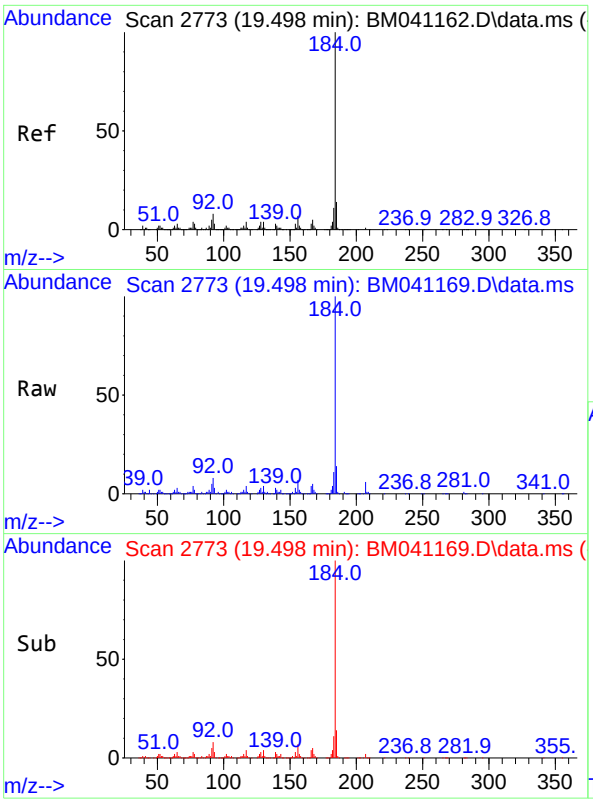


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.433 min Scan# 3102
Delta R.T. -0.000 min
Lab File: BM041169.D
Acq: 28 Jul 2023 17:11

Tgt Ion:240 Resp: 604742

Ion	Ratio	Lower	Upper
240	100		
120	10.5	8.3	12.5
236	25.6	20.6	30.8

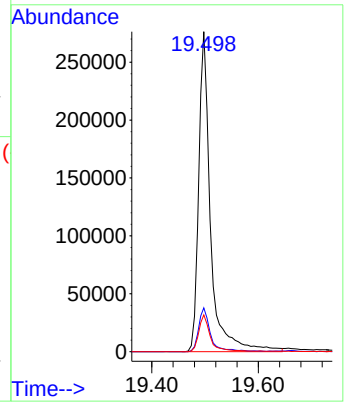




#77
Benzidine
Concen: 51.978 ng
RT: 19.498 min Scan# 2
Delta R.T. -0.000 min
Lab File: BM041169.D
Acq: 28 Jul 2023 17:11

Tgt Ion:184 Resp: 42843

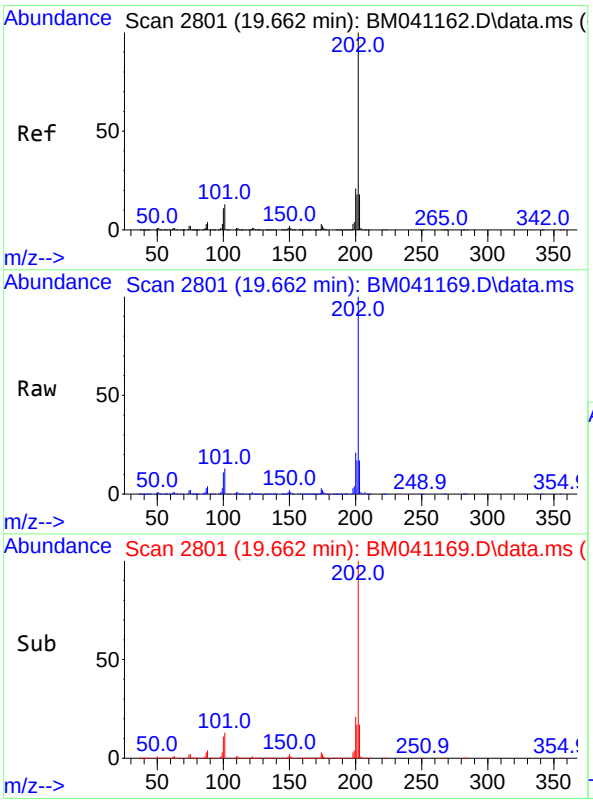
Ion	Ratio	Lower	Upper
184	100		
185	13.7	11.4	17.0
183	11.5	9.2	13.8



Instrument :
BNA_M
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

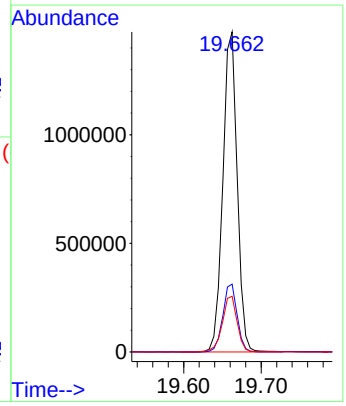
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

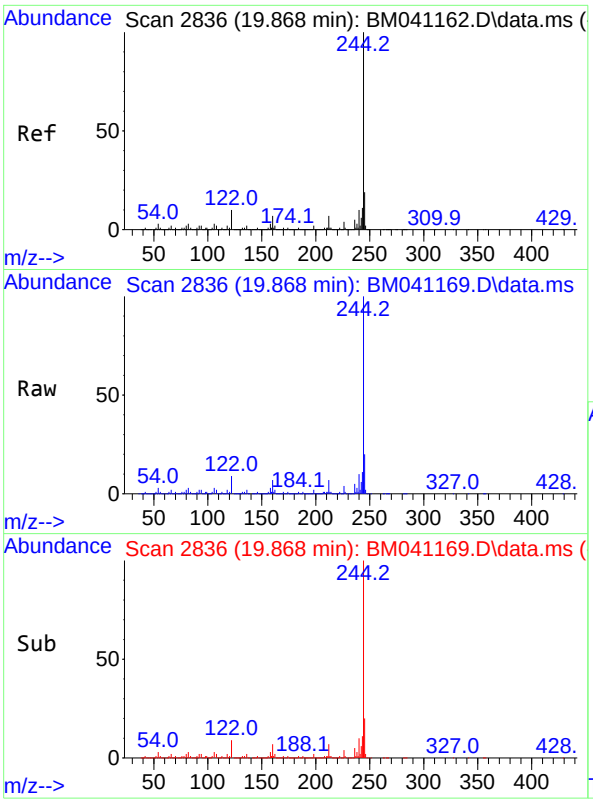


#78
Pyrene
Concen: 44.730 ng
RT: 19.662 min Scan# 2801
Delta R.T. 0.000 min
Lab File: BM041169.D
Acq: 28 Jul 2023 17:11

Tgt Ion:202 Resp: 1891670

Ion	Ratio	Lower	Upper
202	100		
200	21.2	16.9	25.3
203	17.4	14.1	21.1

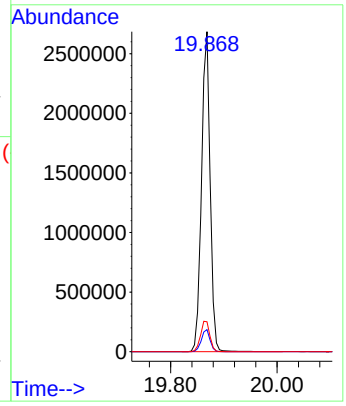




#79
Terphenyl-d14
Concen: 90.231 ng
RT: 19.868 min Scan# 2
Delta R.T. 0.000 min
Lab File: BM041169.D
Acq: 28 Jul 2023 17:11

Tgt Ion:244 Resp: 301795

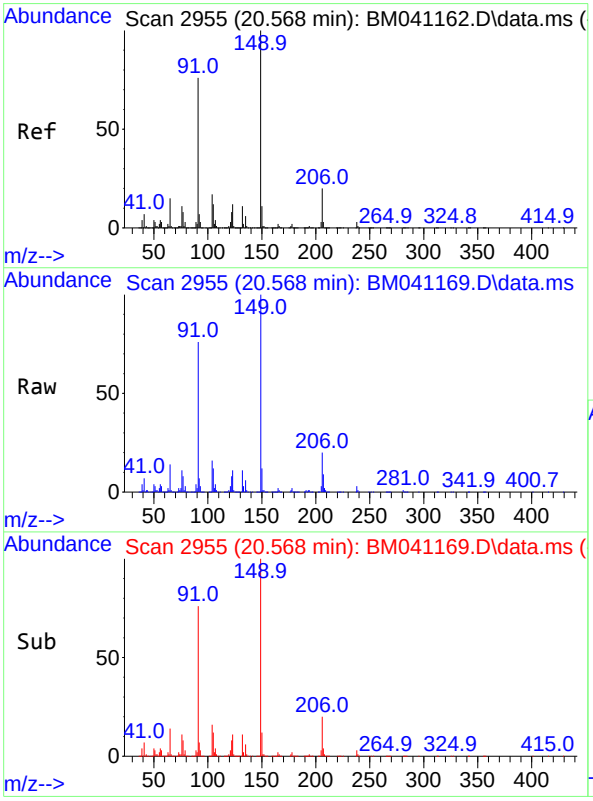
Ion	Ratio	Lower	Upper
244	100		
212	6.9	5.4	8.2
122	9.4	7.8	11.6



Instrument :
BNA_M
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

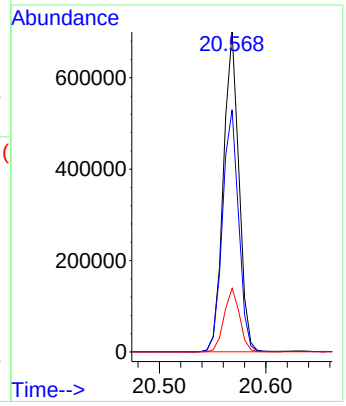
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

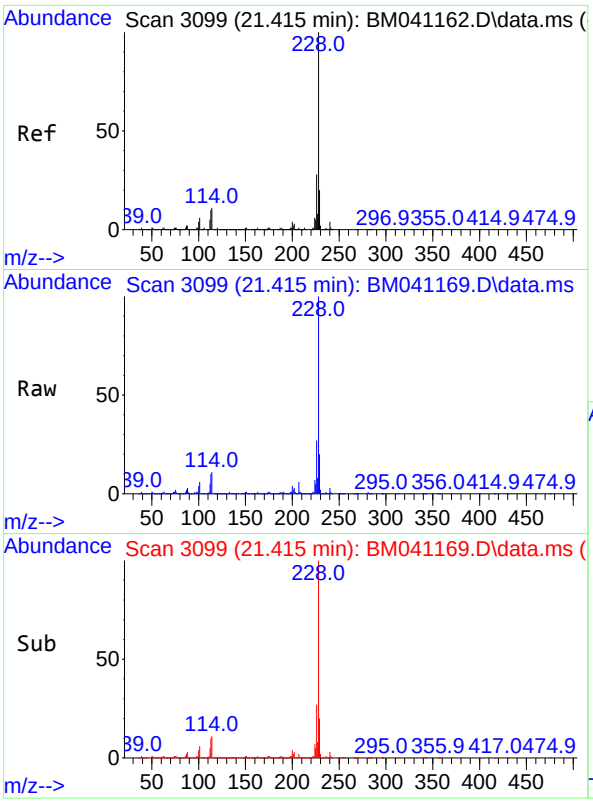


#80
Butylbenzylphthalate
Concen: 45.821 ng
RT: 20.568 min Scan# 2955
Delta R.T. 0.000 min
Lab File: BM041169.D
Acq: 28 Jul 2023 17:11

Tgt Ion:149 Resp: 707645

Ion	Ratio	Lower	Upper
149	100		
91	75.7	60.8	91.2
206	19.9	16.4	24.6

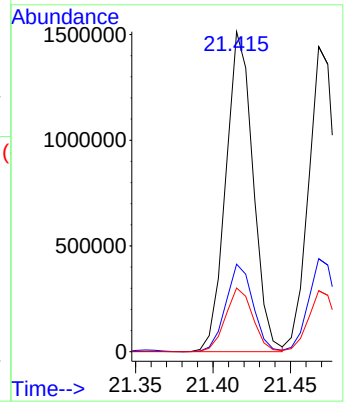




#81
Benzo(a)anthracene
Concen: 45.130 ng
RT: 21.415 min Scan# 3
Delta R.T. 0.000 min
Lab File: BM041169.D
Acq: 28 Jul 2023 17:11

Tgt Ion:228 Resp: 185017

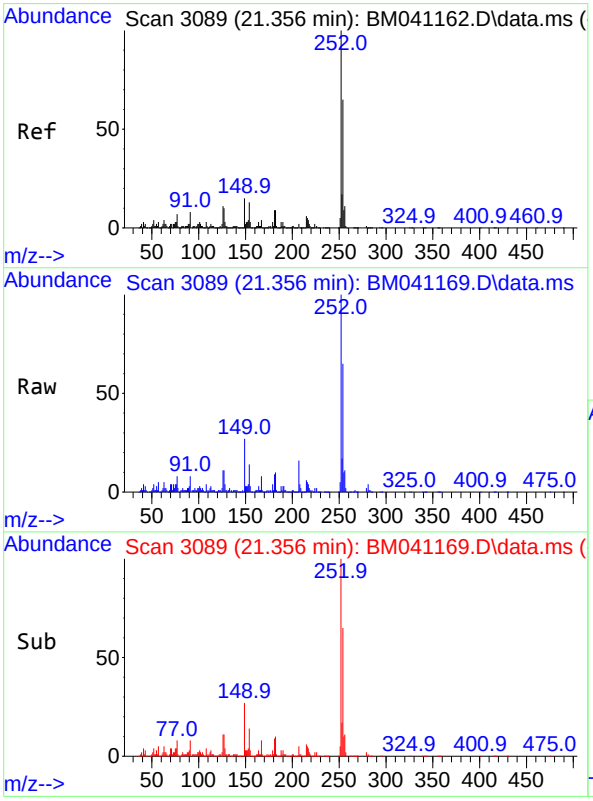
Ion	Ratio	Lower	Upper
228	100		
226	27.4	22.4	33.6
229	19.9	15.8	23.8



Instrument :
BNA_M
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

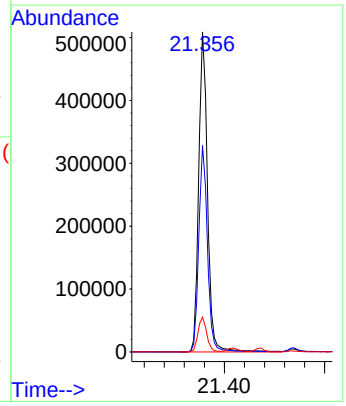
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

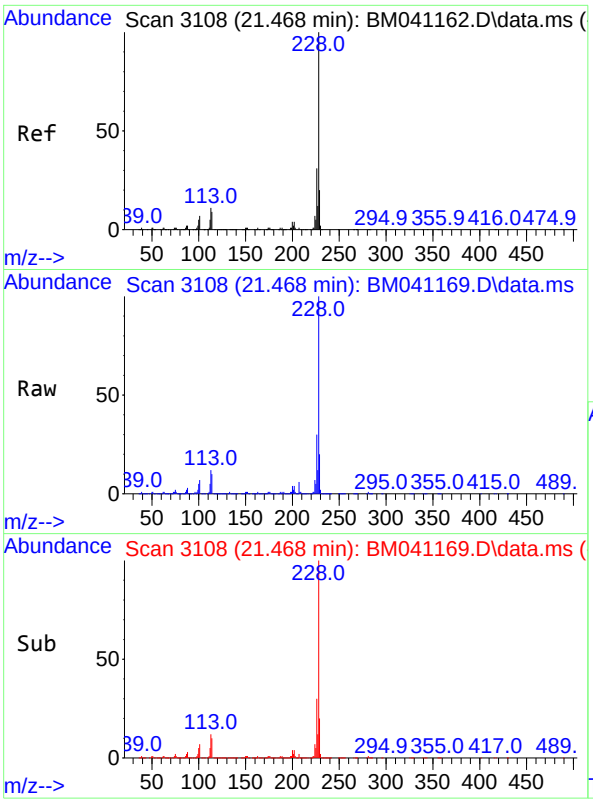


#82
3,3'-Dichlorobenzidine
Concen: 46.193 ng
RT: 21.356 min Scan# 3089
Delta R.T. 0.000 min
Lab File: BM041169.D
Acq: 28 Jul 2023 17:11

Tgt Ion:252 Resp: 617950

Ion	Ratio	Lower	Upper
252	100		
254	64.5	51.8	77.6
126	10.9	8.6	13.0

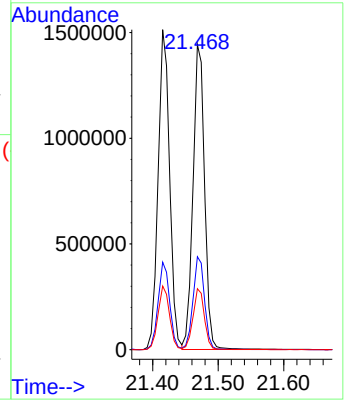




#83
Chrysene
Concen: 44.611 ng
RT: 21.468 min Scan# 3
Delta R.T. 0.000 min
Lab File: BM041169.D
Acq: 28 Jul 2023 17:11

Tgt Ion:228 Resp: 176900

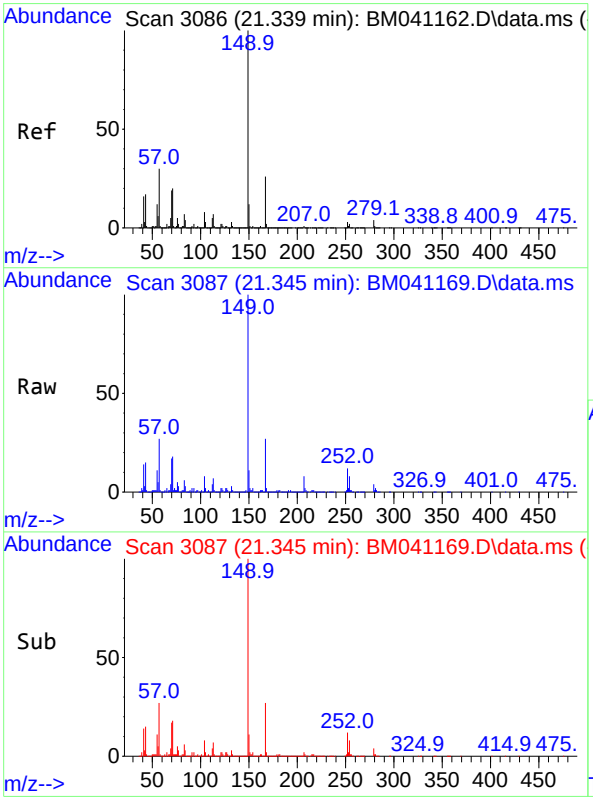
Ion	Ratio	Lower	Upper
228	100		
226	30.5	24.5	36.7
229	20.0	15.8	23.8



Instrument :
BNA_M
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

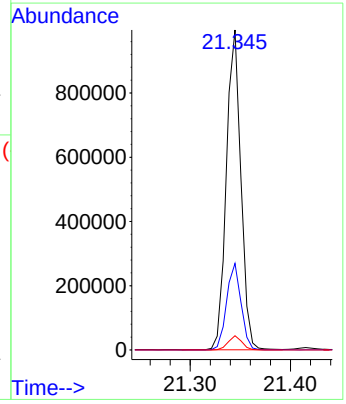
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

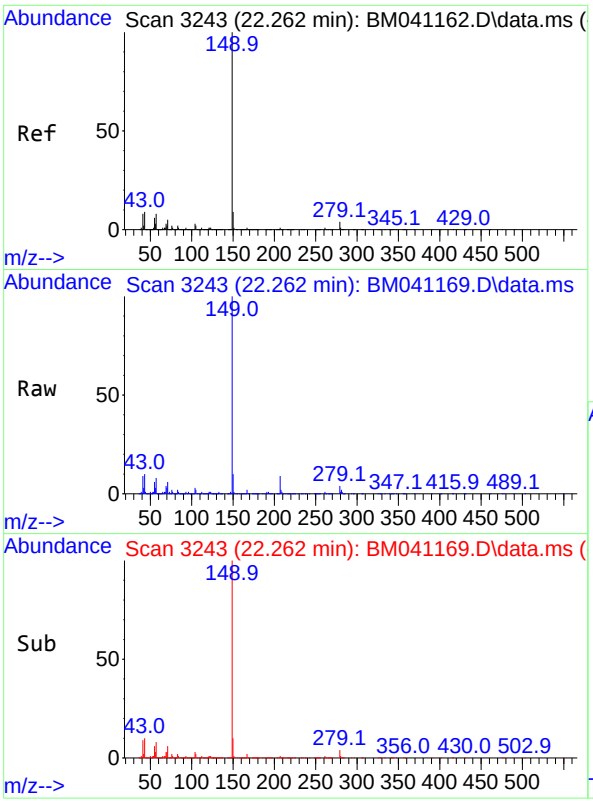


#84
Bis(2-ethylhexyl)phthalate
Concen: 41.072 ng
RT: 21.345 min Scan# 3087
Delta R.T. 0.006 min
Lab File: BM041169.D
Acq: 28 Jul 2023 17:11

Tgt Ion:149 Resp: 997820

Ion	Ratio	Lower	Upper
149	100		
167	27.1	21.0	31.6
279	4.5	3.1	4.7

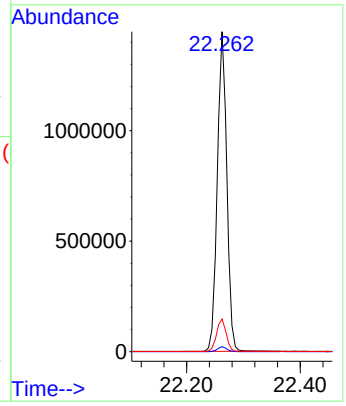




#85
Di-n-octyl phthalate
Concen: 42.872 ng
RT: 22.262 min Scan# 3
Delta R.T. 0.000 min
Lab File: BM041169.D
Acq: 28 Jul 2023 17:11

Tgt Ion:149 Resp: 167333

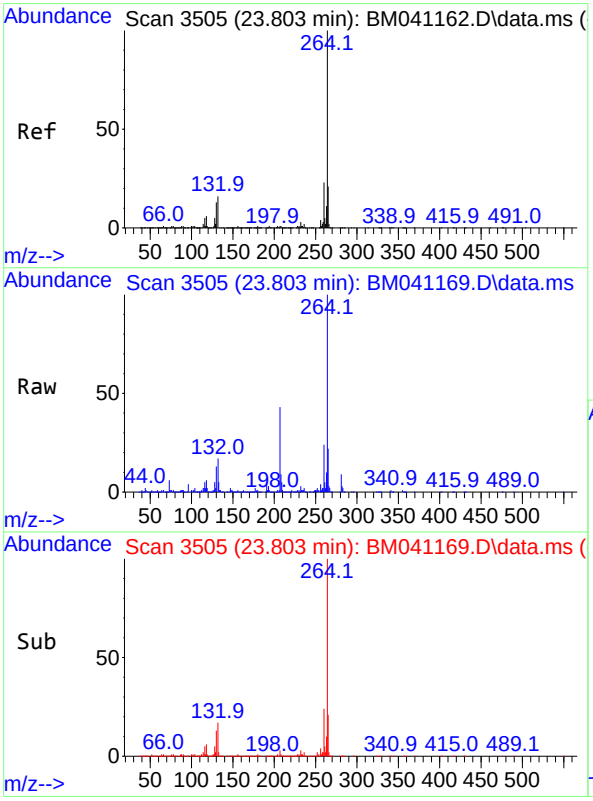
Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.2	1.8
43	10.4	8.3	12.5



Instrument :
BNA_M
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

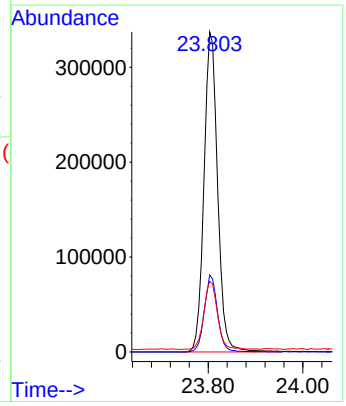
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

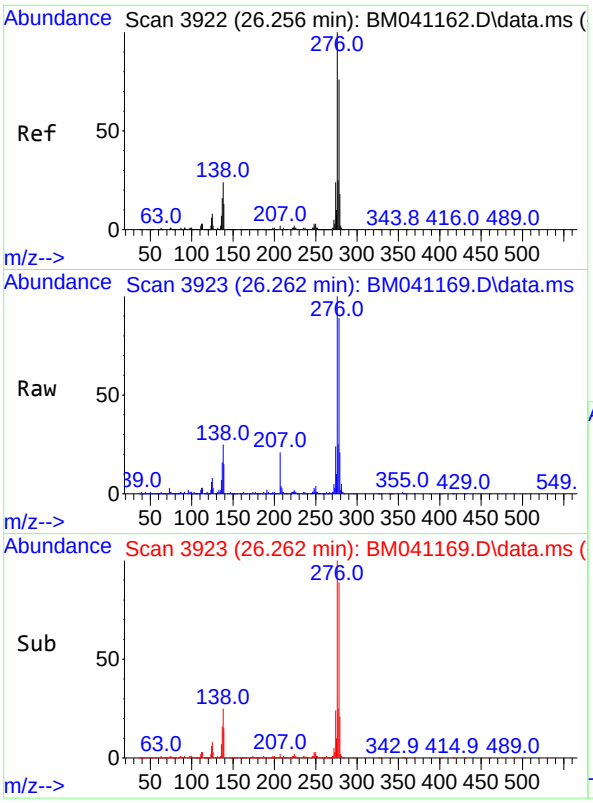


#86
Perylene-d12
Concen: 20.000 ng
RT: 23.803 min Scan# 3505
Delta R.T. 0.000 min
Lab File: BM041169.D
Acq: 28 Jul 2023 17:11

Tgt Ion:264 Resp: 674680

Ion	Ratio	Lower	Upper
264	100		
260	24.0	18.5	27.7
265	22.0	17.4	26.0

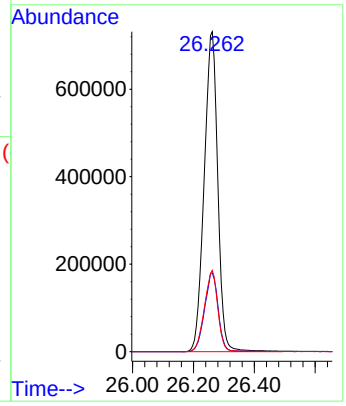




#87
Indeno(1,2,3-cd)pyrene
Concen: 45.579 ng
RT: 26.262 min Scan# 3
Delta R.T. 0.006 min
Lab File: BM041169.D
Acq: 28 Jul 2023 17:11

Tgt Ion:276 Resp: 226084

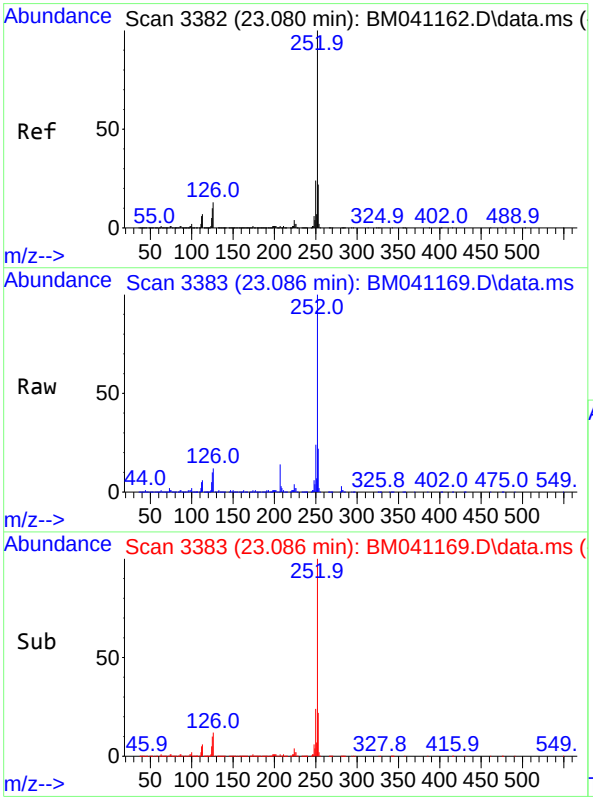
Ion	Ratio	Lower	Upper
276	100		
138	24.6	20.0	30.0
277	25.1	20.1	30.1



Instrument :
BNA_M
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

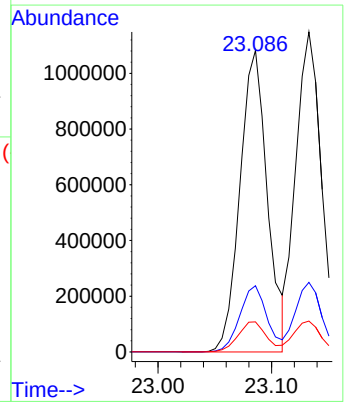
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

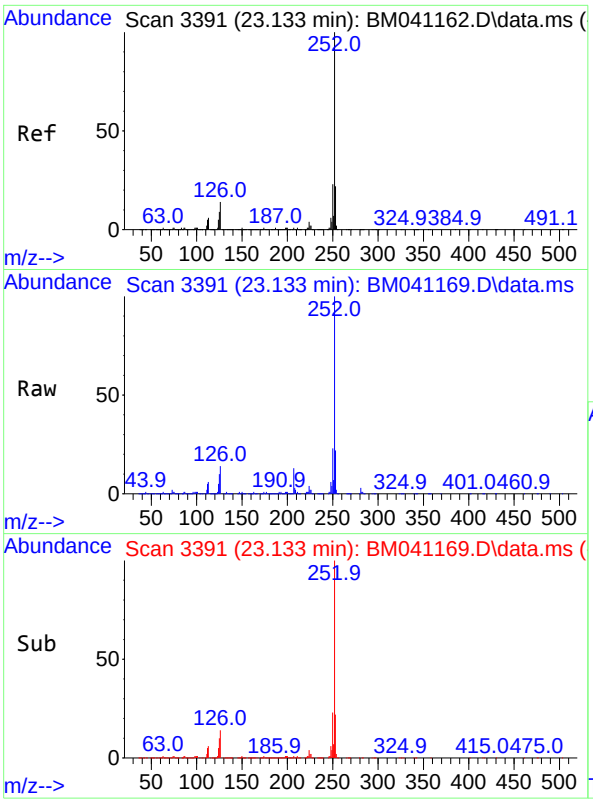


#88
Benzo(b)fluoranthene
Concen: 45.314 ng
RT: 23.086 min Scan# 3383
Delta R.T. 0.006 min
Lab File: BM041169.D
Acq: 28 Jul 2023 17:11

Tgt Ion:252 Resp: 1816172

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.7	26.5
125	10.0	8.2	12.4

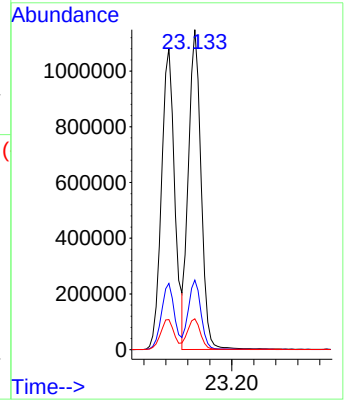




#89
Benzo(k)fluoranthene
Concen: 44.384 ng
RT: 23.133 min Scan# 3
Delta R.T. 0.000 min
Lab File: BM041169.D
Acq: 28 Jul 2023 17:11

Tgt Ion:252 Resp: 181967

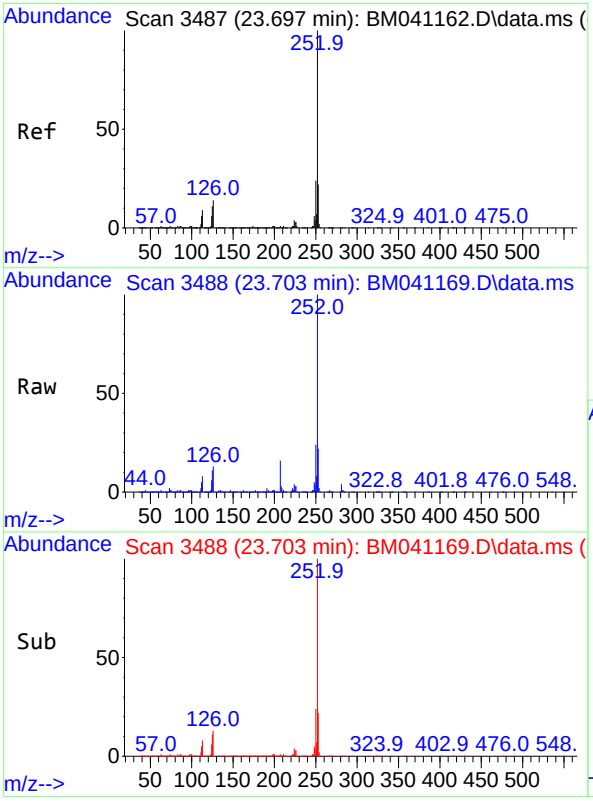
Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.4	26.0
125	9.6	7.6	11.4



Instrument :
BNA_M
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

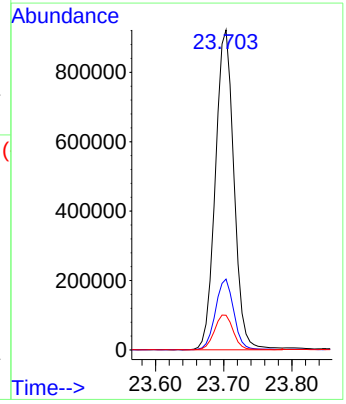
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

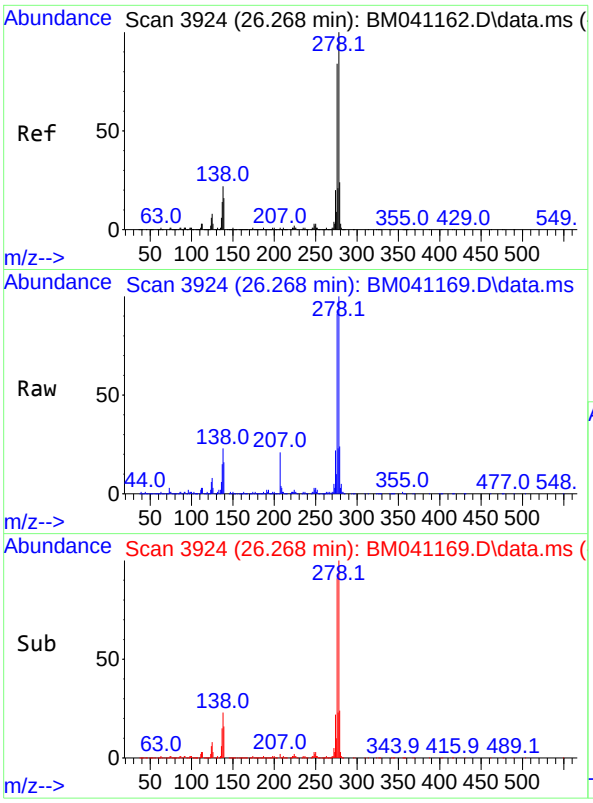


#90
Benzo(a)pyrene
Concen: 45.337 ng
RT: 23.703 min Scan# 3488
Delta R.T. 0.006 min
Lab File: BM041169.D
Acq: 28 Jul 2023 17:11

Tgt Ion:252 Resp: 1745994

Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.3	25.9
125	10.9	9.0	13.4

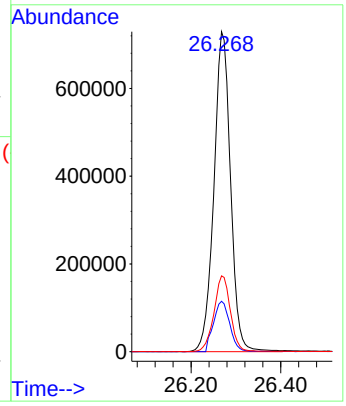




#91
Dibenzo(a,h)anthracene
Concen: 45.418 ng
RT: 26.268 min Scan# 3
Delta R.T. 0.000 min
Lab File: BM041169.D
Acq: 28 Jul 2023 17:11

Tgt Ion:278 Resp: 187909

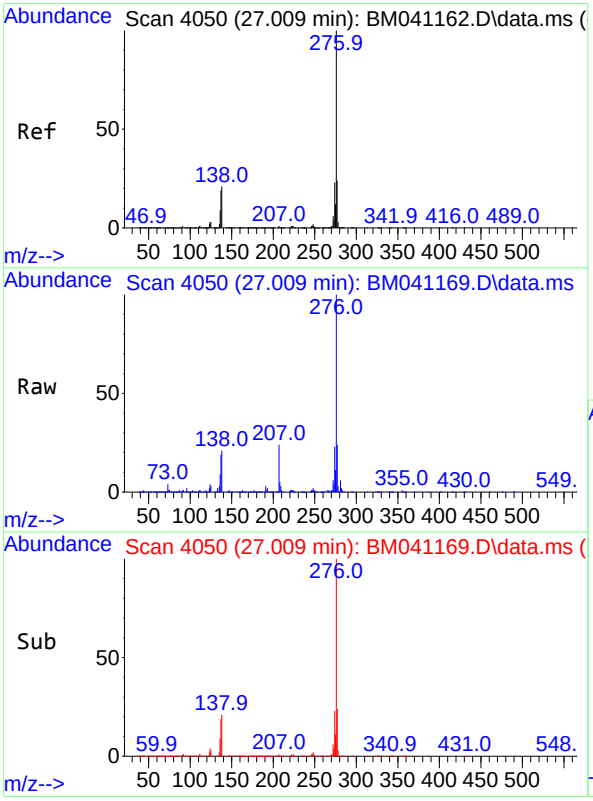
Ion	Ratio	Lower	Upper
278	100		
139	15.7	12.7	19.1
279	23.7	19.1	28.7



Instrument :
BNA_M
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

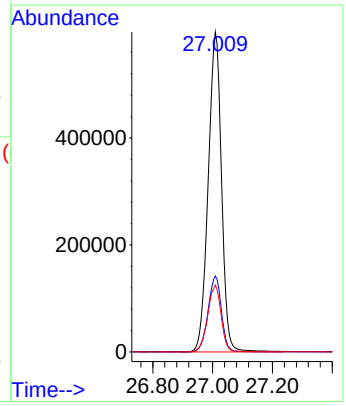
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023



#92
Benzo(g,h,i)perylene
Concen: 45.560 ng
RT: 27.009 min Scan# 4050
Delta R.T. 0.000 min
Lab File: BM041169.D
Acq: 28 Jul 2023 17:11

Tgt Ion:276 Resp: 1844440

Ion	Ratio	Lower	Upper
276	100		
277	23.7	19.1	28.7
138	20.9	17.1	25.7



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM072823\
Data File : BM041169.D
Acq On : 28 Jul 2023 17:11
Operator : MA/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_M
LabSampleId :
SSTDCCC040

Quant Time: Jul 29 01:16:48 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Jul 29 00:19:24 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	80	0.00
2		1,4-Dioxane	0.572	0.618	-8.0	86	0.00
3		Pyridine	1.505	1.714	-13.9	87	0.00
4		n-Nitrosodimethylamine	0.696	0.784	-12.6	89	0.00
5	S	2-Fluorophenol	1.338	1.473	-10.1	86	0.00
6		Aniline	2.030	2.334	-15.0	90	0.00
7	S	Phenol-d6	1.735	1.969	-13.5	89	0.00
8		2-Chlorophenol	1.306	1.465	-12.2	89	0.00
9		Benzaldehyde	0.915	0.956	-4.5	86	0.00
10	C	Phenol	1.675	1.893	-13.0	89	0.00
11		bis(2-Chloroethyl)ether	1.356	1.497	-10.4	87	0.00
12		1,3-Dichlorobenzene	1.422	1.560	-9.7	88	0.00
13	C	1,4-Dichlorobenzene	1.429	1.588	-11.1	89	0.00
14		1,2-Dichlorobenzene	1.370	1.527	-11.5	89	0.00
15		Benzyl Alcohol	1.095	1.263	-15.3	91	0.00
16		2,2'-oxybis(1-Chloropropane	1.807	2.013	-11.4	89	0.00
17		2-Methylphenol	1.145	1.312	-14.6	90	0.00
18		Hexachloroethane	0.532	0.597	-12.2	87	0.00
19	P	n-Nitroso-di-n-propylamine	1.054	1.222	-15.9	90	0.00
20		3+4-Methylphenols	1.530	1.775	-16.0	90	0.00
21	I	Naphthalene-d8	1.000	1.000	0.0	82	0.00
22		Acetophenone	0.530	0.592	-11.7	91	0.00
23	S	Nitrobenzene-d5	0.430	0.486	-13.0	91	0.00
24		Nitrobenzene	0.435	0.489	-12.4	90	0.00
25		Isophorone	0.730	0.825	-13.0	90	0.00
26	C	2-Nitrophenol	0.170	0.197	-15.9	90	0.00
27		2,4-Dimethylphenol	0.299	0.342	-14.4	91	0.00
28		bis(2-Chloroethoxy)methane	0.457	0.513	-12.3	90	0.00
29	C	2,4-Dichlorophenol	0.302	0.342	-13.2	90	0.00
30		1,2,4-Trichlorobenzene	0.333	0.366	-9.9	90	0.00
31		Naphthalene	1.085	1.202	-10.8	91	0.00
32		Benzoic acid	0.198	0.225	-13.6	90	0.00
33		4-Chloroaniline	0.434	0.501	-15.4	93	0.00
34	C	Hexachlorobutadiene	0.200	0.217	-8.5	88	0.00
35		Caprolactam	0.087	0.100	-14.9	92	0.00
36	C	4-Chloro-3-methylphenol	0.318	0.363	-14.2	92	0.00
37		2-Methylnaphthalene	0.732	0.823	-12.4	92	0.00
38		1-Methylnaphthalene	0.685	0.770	-12.4	92	0.00
39	I	Acenaphthene-d10	1.000	1.000	0.0	84	0.00
40		1,2,4,5-Tetrachlorobenzene	0.649	0.711	-9.6	91	0.00
41	P	Hexachlorocyclopentadiene	0.344	0.375	-9.0	88	0.00
42	S	2,4,6-Tribromophenol	0.283	0.325	-14.8	94	0.00
43	C	2,4,6-Trichlorophenol	0.416	0.471	-13.2	92	0.00
44		2,4,5-Trichlorophenol	0.482	0.545	-13.1	93	0.00
45	S	2-Fluorobiphenyl	1.583	1.760	-11.2	92	0.00
46		1,1'-Biphenyl	1.621	1.805	-11.4	93	0.00
47		2-Chloronaphthalene	1.211	1.351	-11.6	93	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM072823\
Data File : BM041169.D
Acq On : 28 Jul 2023 17:11
Operator : MA/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_M
LabSampleId :
SSTDCCC040

Quant Time: Jul 29 01:16:48 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Jul 29 00:19:24 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
48		2-Nitroaniline	0.386	0.456	-18.1	93	0.00
49		Acenaphthylene	1.954	2.210	-13.1	93	0.00
50		Dimethylphthalate	1.504	1.658	-10.2	92	0.00
51		2,6-Dinitrotoluene	0.312	0.357	-14.4	93	0.00
52	C	Acenaphthene	1.177	1.313	-11.6	93	0.00
53		3-Nitroaniline	0.326	0.388	-19.0	93	0.00
54	P	2,4-Dinitrophenol	0.180	0.200	-11.1	91	0.00
55		Dibenzofuran	1.921	2.131	-10.9	93	0.00
56	P	4-Nitrophenol	0.260	0.298	-14.6	93	0.00
57		2,4-Dinitrotoluene	0.402	0.472	-17.4	93	0.00
58		Fluorene	1.515	1.702	-12.3	94	0.00
59		2,3,4,6-Tetrachlorophenol	0.390	0.439	-12.6	93	0.00
60		Diethylphthalate	1.455	1.612	-10.8	92	0.00
61		4-Chlorophenyl-phenylether	0.759	0.848	-11.7	92	0.00
62		4-Nitroaniline	0.284	0.351	-23.6	95	0.00
63		Azobenzene	1.594	1.843	-15.6	93	0.00
64	I	Phenanthrene-d10	1.000	1.000	0.0	86	0.00
65		4,6-Dinitro-2-methylphenol	0.121	0.136	-12.4	91	0.00
66	c	n-Nitrosodiphenylamine	0.622	0.705	-13.3	94	0.00
67		4-Bromophenyl-phenylether	0.219	0.246	-12.3	94	0.00
68		Hexachlorobenzene	0.244	0.270	-10.7	94	0.00
69		Atrazine	0.163	0.193	-18.4	98	0.00
70	C	Pentachlorophenol	0.169	0.198	-17.2	94	0.00
71		Phenanthrene	1.111	1.236	-11.3	94	0.00
72		Anthracene	1.099	1.247	-13.5	93	0.00
73		Carbazole	0.995	1.132	-13.8	93	0.00
74		Di-n-butylphthalate	1.124	1.267	-12.7	91	0.00
75	C	Fluoranthene	1.248	1.402	-12.3	93	0.00
76	I	Chrysene-d12	1.000	1.000	0.0	85	0.00
77		Benzidine	0.273	0.354	-29.7#	91	0.00
78		Pyrene	1.399	1.564	-11.8	93	0.00
79	S	Terphenyl-d14	1.106	1.248	-12.8	93	0.00
80		Butylbenzylphthalate	0.511	0.585	-14.5	91	0.00
81		Benzo(a)anthracene	1.356	1.530	-12.8	94	0.00
82		3,3'-Dichlorobenzidine	0.442	0.511	-15.6	91	0.00
83		Chrysene	1.311	1.463	-11.6	94	0.00
84		Bis(2-ethylhexyl)phthalate	0.730	0.825	-13.0	88	0.00
85	c	Di-n-octyl phthalate	1.291	1.384	-7.2	88	0.00
86	I	Perylene-d12	1.000	1.000	0.0	88	0.00
87		Indeno(1,2,3-cd)pyrene	1.470	1.675	-13.9	97	0.00
88		Benzo(b)fluoranthene	1.188	1.346	-13.3	97	0.00
89		Benzo(k)fluoranthene	1.215	1.349	-11.0	92	0.00
90	C	Benzo(a)pyrene	1.142	1.294	-13.3	95	0.00
91		Dibenzo(a,h)anthracene	1.226	1.393	-13.6	96	0.00
92		Benzo(g,h,i)perylene	1.200	1.367	-13.9	97	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM072823\
Data File : BM041169.D
Acq On : 28 Jul 2023 17:11
Operator : MA/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_M
LabSampleId :
SSTDCCC040

Quant Time: Jul 29 01:16:48 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Jul 29 00:19:24 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM072823\
Data File : BM041169.D
Acq On : 28 Jul 2023 17:11
Operator : MA/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_M
LabSampleId :
SSTDCCC040

Quant Time: Jul 29 01:16:48 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Jul 29 00:19:24 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	20.000	20.000	0.0	80	0.00
2		1,4-Dioxane	40.000	43.171	-7.9	86	0.00
3		Pyridine	40.000	45.538	-13.8	87	0.00
4		n-Nitrosodimethylamine	40.000	45.035	-12.6	89	0.00
5	S	2-Fluorophenol	80.000	88.036	-10.0	86	0.00
6		Aniline	40.000	45.991	-15.0	90	0.00
7	S	Phenol-d6	80.000	90.818	-13.5	89	0.00
8		2-Chlorophenol	40.000	44.867	-12.2	89	0.00
9		Benzaldehyde	40.000	41.791	-4.5	86	0.00
10	C	Phenol	40.000	45.197	-13.0	89	0.00
11		bis(2-Chloroethyl)ether	40.000	44.167	-10.4	87	0.00
12		1,3-Dichlorobenzene	40.000	43.874	-9.7	88	0.00
13	C	1,4-Dichlorobenzene	40.000	44.440	-11.1	89	0.00
14		1,2-Dichlorobenzene	40.000	44.577	-11.4	89	0.00
15		Benzyl Alcohol	40.000	46.124	-15.3	91	0.00
16		2,2'-oxybis(1-Chloropropane	40.000	44.567	-11.4	89	0.00
17		2-Methylphenol	40.000	45.860	-14.6	90	0.00
18		Hexachloroethane	40.000	44.870	-12.2	87	0.00
19	P	n-Nitroso-di-n-propylamine	40.000	46.376	-15.9	90	0.00
20		3+4-Methylphenols	40.000	46.391	-16.0	90	0.00
21	I	Naphthalene-d8	20.000	20.000	0.0	82	0.00
22		Acetophenone	40.000	44.740	-11.9	91	0.00
23	S	Nitrobenzene-d5	80.000	90.424	-13.0	91	0.00
24		Nitrobenzene	40.000	45.000	-12.5	90	0.00
25		Isophorone	40.000	45.226	-13.1	90	0.00
26	C	2-Nitrophenol	40.000	46.248	-15.6	90	0.00
27		2,4-Dimethylphenol	40.000	45.683	-14.2	91	0.00
28		bis(2-Chloroethoxy)methane	40.000	44.856	-12.1	90	0.00
29	C	2,4-Dichlorophenol	40.000	45.363	-13.4	90	0.00
30		1,2,4-Trichlorobenzene	40.000	43.887	-9.7	90	0.00
31		Naphthalene	40.000	44.314	-10.8	91	0.00
32		Benzoic acid	40.000	41.209	-3.0	90	0.00
33		4-Chloroaniline	40.000	46.168	-15.4	93	0.00
34	C	Hexachlorobutadiene	40.000	43.349	-8.4	88	0.00
35		Caprolactam	40.000	45.606	-14.0	92	0.00
36	C	4-Chloro-3-methylphenol	40.000	45.697	-14.2	92	0.00
37		2-Methylnaphthalene	40.000	44.972	-12.4	92	0.00
38		1-Methylnaphthalene	40.000	44.975	-12.4	92	0.00
39	I	Acenaphthene-d10	20.000	20.000	0.0	84	0.00
40		1,2,4,5-Tetrachlorobenzene	40.000	43.823	-9.6	91	0.00
41	P	Hexachlorocyclopentadiene	40.000	43.705	-9.3	88	0.00
42	S	2,4,6-Tribromophenol	80.000	91.935	-14.9	94	0.00
43	C	2,4,6-Trichlorophenol	40.000	45.262	-13.2	92	0.00
44		2,4,5-Trichlorophenol	40.000	45.276	-13.2	93	0.00
45	S	2-Fluorobiphenyl	80.000	88.936	-11.2	92	0.00
46		1,1'-Biphenyl	40.000	44.536	-11.3	93	0.00
47		2-Chloronaphthalene	40.000	44.644	-11.6	93	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM072823\
Data File : BM041169.D
Acq On : 28 Jul 2023 17:11
Operator : MA/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_M
LabSampleId :
SSTDCCC040

Quant Time: Jul 29 01:16:48 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Jul 29 00:19:24 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
48		2-Nitroaniline	40.000	47.246	-18.1	93	0.00
49		Acenaphthylene	40.000	45.244	-13.1	93	0.00
50		Dimethylphthalate	40.000	44.077	-10.2	92	0.00
51		2,6-Dinitrotoluene	40.000	45.780	-14.5	93	0.00
52	C	Acenaphthene	40.000	44.623	-11.6	93	0.00
53		3-Nitroaniline	40.000	43.328	-8.3	93	0.00
54	P	2,4-Dinitrophenol	40.000	41.047	-2.6	91	0.00
55		Dibenzofuran	40.000	44.387	-11.0	93	0.00
56	P	4-Nitrophenol	40.000	45.842	-14.6	93	0.00
57		2,4-Dinitrotoluene	40.000	42.764	-6.9	93	0.00
58		Fluorene	40.000	44.938	-12.3	94	0.00
59		2,3,4,6-Tetrachlorophenol	40.000	44.977	-12.4	93	0.00
60		Diethylphthalate	40.000	44.329	-10.8	92	0.00
61		4-Chlorophenyl-phenylether	40.000	44.652	-11.6	92	0.00
62		4-Nitroaniline	40.000	42.723	-6.8	95	0.00
63		Azobenzene	40.000	46.262	-15.7	93	0.00
64	I	Phenanthrene-d10	20.000	20.000	0.0	86	0.00
65		4,6-Dinitro-2-methylphenol	40.000	44.934	-12.3	91	0.00
66	c	n-Nitrosodiphenylamine	40.000	45.326	-13.3	94	0.00
67		4-Bromophenyl-phenylether	40.000	44.932	-12.3	94	0.00
68		Hexachlorobenzene	40.000	44.230	-10.6	94	0.00
69		Atrazine	40.000	47.254	-18.1	98	0.00
70	C	Pentachlorophenol	40.000	46.884	-17.2	94	0.00
71		Phenanthrene	40.000	44.510	-11.3	94	0.00
72		Anthracene	40.000	45.393	-13.5	93	0.00
73		Carbazole	40.000	45.530	-13.8	93	0.00
74		Di-n-butylphthalate	40.000	45.099	-12.7	91	0.00
75	C	Fluoranthene	40.000	44.909	-12.3	93	0.00
76	I	Chrysene-d12	20.000	20.000	0.0	85	0.00
77		Benzidine	40.000	51.978	-29.9#	91	0.00
78		Pyrene	40.000	44.730	-11.8	93	0.00
79	S	Terphenyl-d14	80.000	90.231	-12.8	93	0.00
80		Butylbenzylphthalate	40.000	45.821	-14.6	91	0.00
81		Benzo(a)anthracene	40.000	45.130	-12.8	94	0.00
82		3,3'-Dichlorobenzidine	40.000	46.193	-15.5	91	0.00
83		Chrysene	40.000	44.611	-11.5	94	0.00
84		Bis(2-ethylhexyl)phthalate	40.000	41.072	-2.7	88	0.00
85	c	Di-n-octyl phthalate	40.000	42.872	-7.2	88	0.00
86	I	Perylene-d12	20.000	20.000	0.0	88	0.00
87		Indeno(1,2,3-cd)pyrene	40.000	45.579	-13.9	97	0.00
88		Benzo(b)fluoranthene	40.000	45.314	-13.3	97	0.00
89		Benzo(k)fluoranthene	40.000	44.384	-11.0	92	0.00
90	C	Benzo(a)pyrene	40.000	45.337	-13.3	95	0.00
91		Dibenzo(a,h)anthracene	40.000	45.418	-13.5	96	0.00
92		Benzo(g,h,i)perylene	40.000	45.560	-13.9	97	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM072823\
Data File : BM041169.D
Acq On : 28 Jul 2023 17:11
Operator : MA/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_M
LabSampleId :
SSTDCCC040

Quant Time: Jul 29 01:16:48 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Jul 29 00:19:24 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)

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

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM Case No.: O3645 SAS No.: O3645 SDG No.: O3645

Instrument ID: BNA_P Calibration Date/Time: 07/28/2023 08:03

Lab File ID: BP016411.D Init. Calib. Date(s): 07/27/2023 07/27/2023

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:03 15:03

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.226	1.299		6.0	
Benzaldehyde	0.866	0.889		2.7	
Phenol-d6	1.680	1.786		6.3	
Phenol	1.632	1.737		6.4	20.0
bis(2-Chloroethyl)ether	1.326	1.399		5.5	
2-Chlorophenol	1.285	1.350		5.1	
2-Methylphenol	1.176	1.244		5.8	
2,2-oxybis(1-Chloropropane)	1.504	1.643		9.2	
Acetophenone	0.505	0.518		2.6	
3+4-Methylphenols	1.597	1.691		5.9	
n-Nitroso-di-n-propylamine	1.053	1.118	0.050	6.2	
Nitrobenzene-d5	0.357	0.376		5.3	
Hexachloroethane	0.499	0.519		4.0	
Nitrobenzene	0.367	0.388		5.7	
Isophorone	0.721	0.750		4.0	
2-Nitrophenol	0.141	0.153		8.5	20.0
2,4-Dimethylphenol	0.323	0.330		2.2	
bis(2-Chloroethoxy)methane	0.442	0.460		4.1	
2,4-Dichlorophenol	0.302	0.308		2.0	20.0
Naphthalene	1.046	1.055		0.9	
4-Chloroaniline	0.472	0.480		1.7	
Hexachlorobutadiene	0.194	0.182		-6.2	20.0
Caprolactam	0.110	0.112		1.8	
4-Chloro-3-methylphenol	0.336	0.346		3.0	20.0
2-Methylnaphthalene	0.760	0.762		0.3	
Hexachlorocyclopentadiene	0.305	0.309	0.050	1.3	
2,4,6-Trichlorophenol	0.390	0.402		3.1	20.0
2-Fluorobiphenyl	1.395	1.387		-0.6	
2,4,5-Trichlorophenol	0.473	0.484		2.3	
1,1-Biphenyl	1.525	1.551		1.7	
2-Chloronaphthalene	1.150	1.171		1.8	
2-Nitroaniline	0.324	0.366		13.0	
Dimethylphthalate	1.559	1.562		0.2	
Acenaphthylene	1.908	1.958		2.6	
2,6-Dinitrotoluene	0.319	0.335		5.0	
3-Nitroaniline	0.361	0.387		7.2	
Acenaphthene	1.135	1.159		2.1	20.0
2,4-Dinitrophenol	0.121	0.124	0.050	2.5	
4-Nitrophenol	0.283	0.301	0.050	6.4	
Dibenzofuran	1.861	1.866		0.3	
2,4-Dinitrotoluene	0.416	0.449		7.9	

Form VII SV-1

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: LABE01

Lab Code: CHEM Case No.: O3645 SAS No.: O3645 SDG No.: O3645

Instrument ID: BNA_P Calibration Date/Time: 07/28/2023 08:03

Lab File ID: BP016411.D Init. Calib. Date(s): 07/27/2023 07/27/2023

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:03 15:03

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Diethylphthalate	1.549	1.566		1.1	
4-Chlorophenyl-phenylether	0.738	0.714		-3.3	
Fluorene	1.462	1.453		-0.6	
4-Nitroaniline	0.358	0.379		5.9	
4,6-Dinitro-2-methylphenol	0.084	0.092		9.5	
n-Nitrosodiphenylamine	0.589	0.616		4.6	20.0
2,4,6-Tribromophenol	0.294	0.259		-11.9	
4-Bromophenyl-phenylether	0.212	0.211		-0.5	
Hexachlorobenzene	0.236	0.226		-4.2	
Atrazine	0.175	0.179		2.3	
Pentachlorophenol	0.163	0.159		-2.5	20.0
Phenanthrene	1.062	1.076		1.3	
Anthracene	1.068	1.096		2.6	
Carbazole	1.001	1.026		2.5	
Di-n-butylphthalate	1.158	1.238		6.9	
Fluoranthene	1.245	1.231		-1.1	20.0
Pyrene	1.341	1.487		10.9	
Terphenyl-d14	0.947	1.013		7.0	
Butylbenzylphthalate	0.527	0.619		17.5	
3,3-Dichlorobenzidine	0.441	0.458		3.9	
Benzo(a)anthracene	1.342	1.394		3.9	
Chrysene	1.281	1.312		2.4	
Bis(2-ethylhexyl)phthalate	0.791	0.901		13.9	
Di-n-octyl phthalate	1.330	1.443		8.5	20.0
Benzo(b)fluoranthene	1.159	1.283		10.7	
Benzo(k)fluoranthene	1.179	1.279		8.5	
Benzo(a)pyrene	1.123	1.187		5.7	20.0
Indeno(1,2,3-cd)pyrene	1.348	1.237		-8.2	
Dibenzo(a,h)anthracene	1.124	1.048		-6.8	
Benzo(g,h,i)perylene	1.084	0.980		-9.6	
1,2,4,5-Tetrachlorobenzene	0.608	0.595		-2.1	
1,4-Dioxane	0.478	0.507		6.1	20.0
2,3,4,6-Tetrachlorophenol	0.389	0.380		-2.3	

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP072823\
Data File : BP016411.D
Acq On : 28 Jul 2023 08:03
Operator : MA/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 28 08:40:25 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP072723.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 28 01:48:25 2023
Response via : Initial Calibration

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	8.093	152	506538	20.000	ng		0.00
21) Naphthalene-d8	10.922	136	2090640	20.000	ng		0.00
39) Acenaphthene-d10	14.734	164	1248294	20.000	ng		0.00
64) Phenanthrene-d10	17.498	188	2658098	20.000	ng		0.00
76) Chrysene-d12	21.592	240	2292477	20.000	ng		0.00
86) Perylene-d12	24.186	264	2240141	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.599	112	2632237	84.777	ng		0.00
7) Phenol-d6	7.228	99	3617704	85.006	ng		0.00
23) Nitrobenzene-d5	9.287	82	3146763	84.257	ng		0.00
42) 2,4,6-Tribromophenol	16.228	330	1294191	70.473	ng		0.00
45) 2-Fluorobiphenyl	13.363	172	6924358	79.527	ng		0.00
79) Terphenyl-d14	20.039	244	9290404	85.607	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.464	88	513341	42.391	ng		98
3) Pyridine	3.875	79	1553052	42.905	ng		100
4) n-Nitrosodimethylamine	3.805	42	588662	43.132	ng		98
6) Aniline	7.422	93	2244354	42.695	ng		99
8) 2-Chlorophenol	7.640	128	1367509	42.006	ng		96
9) Benzaldehyde	7.240	77	900740	48.142	ng		97
10) Phenol	7.252	94	1759422	42.571	ng		99
11) bis(2-Chloroethyl)ether	7.522	93	1417072	42.180	ng		99
12) 1,3-Dichlorobenzene	7.969	146	1422986	40.717	ng		97
13) 1,4-Dichlorobenzene	8.128	146	1444496	40.746	ng		99
14) 1,2-Dichlorobenzene	8.440	146	1387953	40.663	ng		98
15) Benzyl Alcohol	8.340	79	1254606	43.150	ng		99
16) 2,2'-oxybis(1-Chloropr...	8.622	45	1664678	43.692	ng		98
17) 2-Methylphenol	8.522	107	1260437	42.317	ng		100
18) Hexachloroethane	9.169	117	526025	41.599	ng		95
19) n-Nitroso-di-n-propyla...	8.911	70	1133013	42.496	ng		97
20) 3+4-Methylphenols	8.858	107	1712938	42.344	ng		98
22) Acetophenone	8.934	105	2165858	41.032	ng	#	99
24) Nitrobenzene	9.328	77	1622303	42.292	ng		97
25) Isophorone	9.846	82	3136818	41.602	ng		98
26) 2-Nitrophenol	10.034	139	641121	39.379	ng		96
27) 2,4-Dimethylphenol	10.069	122	1378021	40.851	ng		99
28) bis(2-Chloroethoxy)met...	10.334	93	1925398	41.688	ng		98
29) 2,4-Dichlorophenol	10.552	162	1289140	40.835	ng		98
30) 1,2,4-Trichlorobenzene	10.769	180	1339468	39.173	ng		99
31) Naphthalene	10.975	128	4411834	40.344	ng		99
32) Benzoic acid	10.205	122	833575	39.018	ng		98
33) 4-Chloroaniline	11.099	127	2006080	40.668	ng		99
34) Hexachlorobutadiene	11.210	225	761881	37.634	ng		99
35) Caprolactam	11.916	113	466412	40.432	ng		98
36) 4-Chloro-3-methylphenol	12.187	107	1446146	41.211	ng		99
37) 2-Methylnaphthalene	12.569	142	3186512	40.110	ng		99
38) 1-Methylnaphthalene	12.787	142	2990085	40.146	ng		99
40) 1,2,4,5-Tetrachloroben...	12.916	216	1484241	39.126	ng		98
41) Hexachlorocyclopentadiene	12.875	237	771329	40.485	ng		99
43) 2,4,6-Trichlorophenol	13.163	196	1003392	41.224	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP072823\
Data File : BP016411.D
Acq On : 28 Jul 2023 08:03
Operator : MA/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 28 08:40:25 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP072723.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 28 01:48:25 2023
Response via : Initial Calibration

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	13.228	196	1209386	40.954	ng	96
46) 1,1'-Biphenyl	13.575	154	3871630	40.688	ng	99
47) 2-Chloronaphthalene	13.622	162	2923920	40.730	ng	99
48) 2-Nitroaniline	13.840	65	913891	45.162	ng	98
49) Acenaphthylene	14.463	152	4889002	41.045	ng	100
50) Dimethylphthalate	14.198	163	3900561	40.098	ng	100
51) 2,6-Dinitrotoluene	14.328	165	836083	41.955	ng	90
52) Acenaphthene	14.798	154	2893264	40.848	ng	99
53) 3-Nitroaniline	14.669	138	964970	42.831	ng	97
54) 2,4-Dinitrophenol	14.863	184	309545	37.884	ng	98
55) Dibenzofuran	15.134	168	4658237	40.100	ng	99
56) 4-Nitrophenol	14.940	139	752480	42.667	ng	96
57) 2,4-Dinitrotoluene	15.110	165	1119786	43.116	ng	96
58) Fluorene	15.787	166	3627101	39.743	ng	99
59) 2,3,4,6-Tetrachlorophenol	15.345	232	949609	39.091	ng	93
60) Diethylphthalate	15.551	149	3910112	40.448	ng	99
61) 4-Chlorophenyl-phenyle...	15.775	204	1783262	38.721	ng	98
62) 4-Nitroaniline	15.834	138	945609	42.293	ng	99
63) Azobenzene	16.075	77	3843573	42.108	ng	97
65) 4,6-Dinitro-2-methylph...	15.857	198	491569	40.612	ng	92
66) n-Nitrosodiphenylamine	15.998	169	3275240	41.810	ng	100
67) 4-Bromophenyl-phenylether	16.681	248	1123350	39.912	ng	96
68) Hexachlorobenzene	16.757	284	1202125	38.299	ng	94
69) Atrazine	16.951	200	950446	40.797	ng	100
70) Pentachlorophenol	17.116	266	844509	38.880	ng	96
71) Phenanthrene	17.539	178	5718591	40.516	ng	100
72) Anthracene	17.634	178	5824715	41.041	ng	100
73) Carbazole	17.910	167	5454639	40.993	ng	99
74) Di-n-butylphthalate	18.428	149	6582181	42.757	ng	99
75) Fluoranthene	19.498	202	6542947	39.550	ng	98
77) Benzidine	19.692	184	2134235	53.696	ng	99
78) Pyrene	19.851	202	6818096	44.366	ng	99
80) Butylbenzylphthalate	20.716	149	2836989	46.991	ng	97
81) Benzo(a)anthracene	21.575	228	6393226	41.564	ng	100
82) 3,3'-Dichlorobenzidine	21.510	252	2099266	41.576	ng	99
83) Chrysene	21.633	228	6016694	40.963	ng	100
84) Bis(2-ethylhexyl)phtha...	21.463	149	4131497	45.581	ng	99
85) Di-n-octyl phthalate	22.463	149	6614020	43.386	ng	98
87) Indeno(1,2,3-cd)pyrene	26.968	276	5543084	36.703	ng	96
88) Benzo(b)fluoranthene	23.380	252	5747274	44.260	ng	99
89) Benzo(k)fluoranthene	23.433	252	5731572m	43.400	ng	
90) Benzo(a)pyrene	24.074	252	5319663	42.294	ng	99
91) Dibenzo(a,h)anthracene	26.998	278	4696465	37.289	ng	98
92) Benzo(g,h,i)perylene	27.833	276	4391594	36.183	ng	98

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

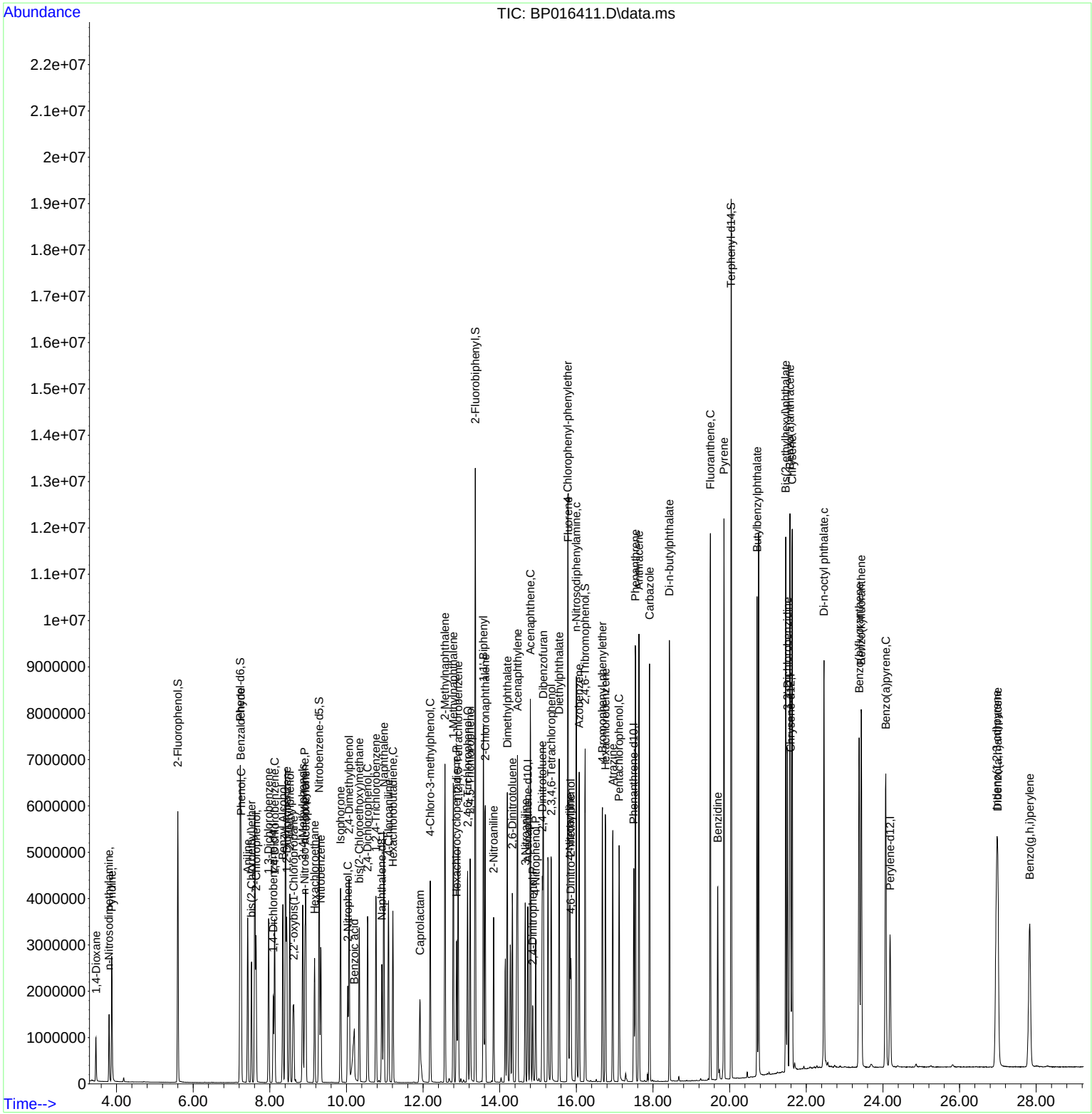
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP072823\
Data File : BP016411.D
Acq On : 28 Jul 2023 08:03
Operator : MA/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

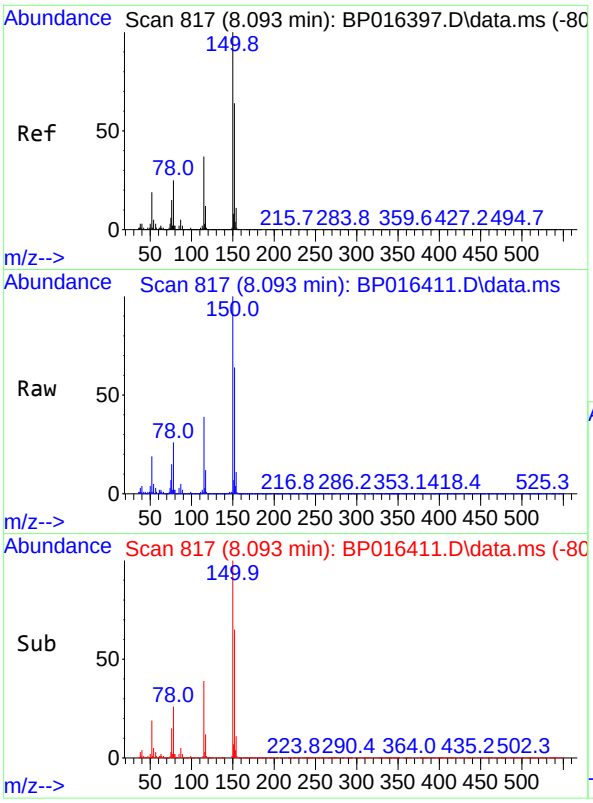
Quant Time: Jul 28 08:40:25 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP072723.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 28 01:48:25 2023
Response via : Initial Calibration

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

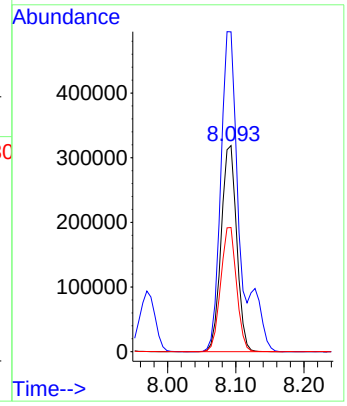




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.093 min Scan# 8
Delta R.T. -0.000 min
Lab File: BP016411.D
Acq: 28 Jul 2023 08:03

Tgt Ion:152 Resp: 50653

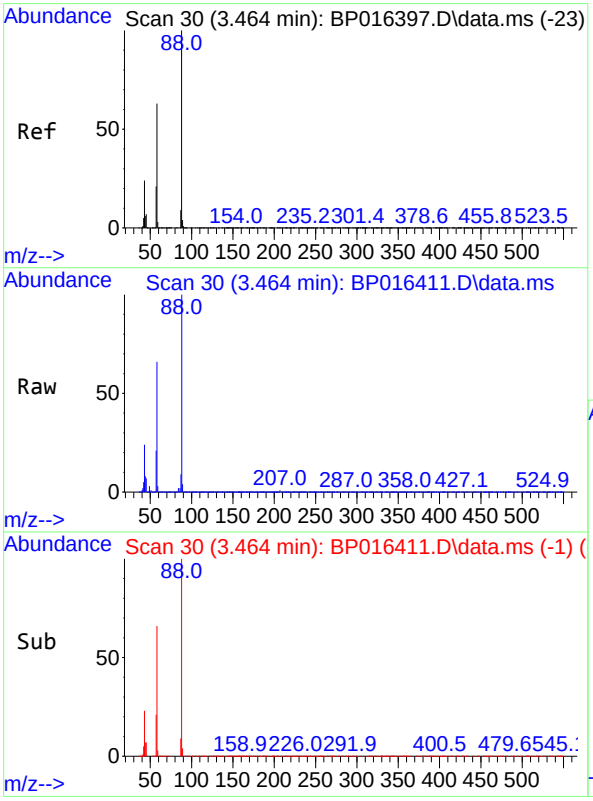
Ion	Ratio	Lower	Upper
152	100		
150	155.2	124.9	187.3
115	60.3	46.8	70.2



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

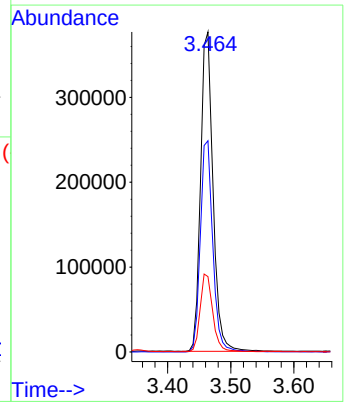
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

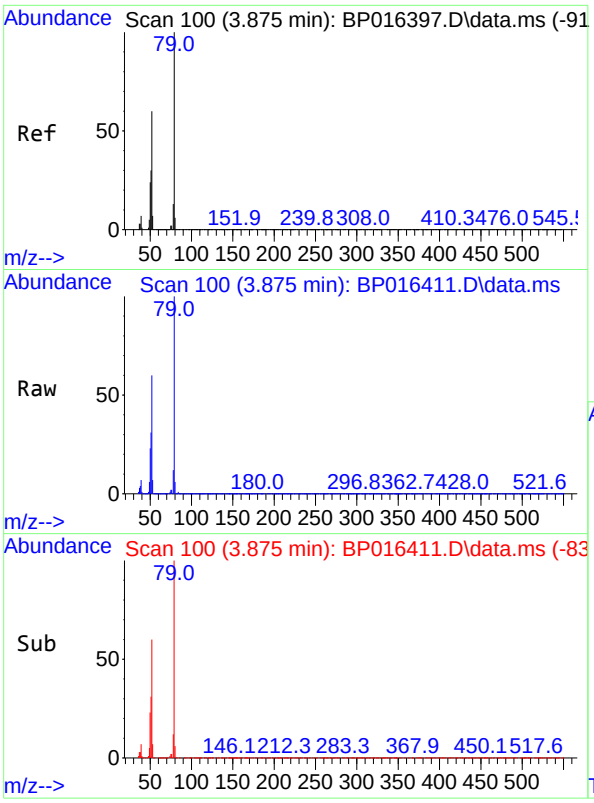


#2
1,4-Dioxane
Concen: 42.391 ng
RT: 3.464 min Scan# 30
Delta R.T. 0.000 min
Lab File: BP016411.D
Acq: 28 Jul 2023 08:03

Tgt Ion: 88 Resp: 513341

Ion	Ratio	Lower	Upper
88	100		
58	66.2	51.7	77.5
43	24.6	19.2	28.8

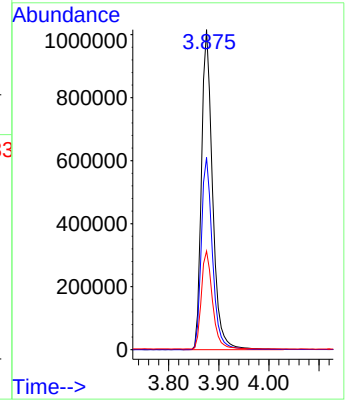




#3
Pyridine
Concen: 42.905 ng
RT: 3.875 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP016411.D
Acq: 28 Jul 2023 08:03

Tgt Ion: 79 Resp: 155305

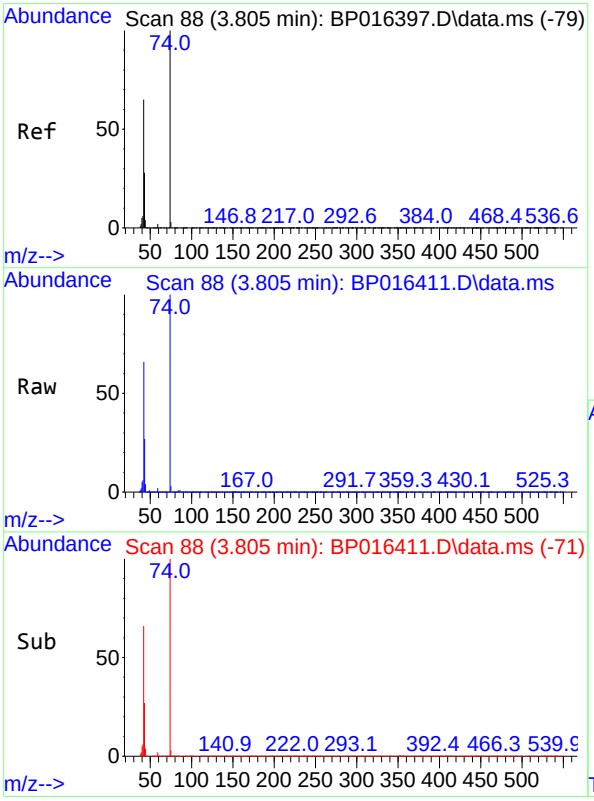
Ion	Ratio	Lower	Upper
79	100		
52	60.1	47.9	71.9
51	30.8	24.4	36.6



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

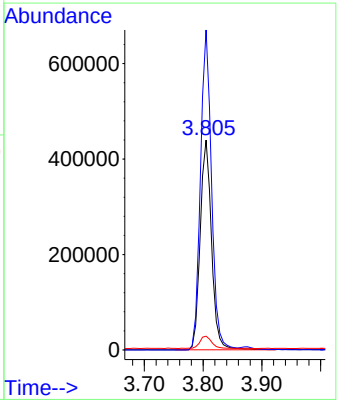
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

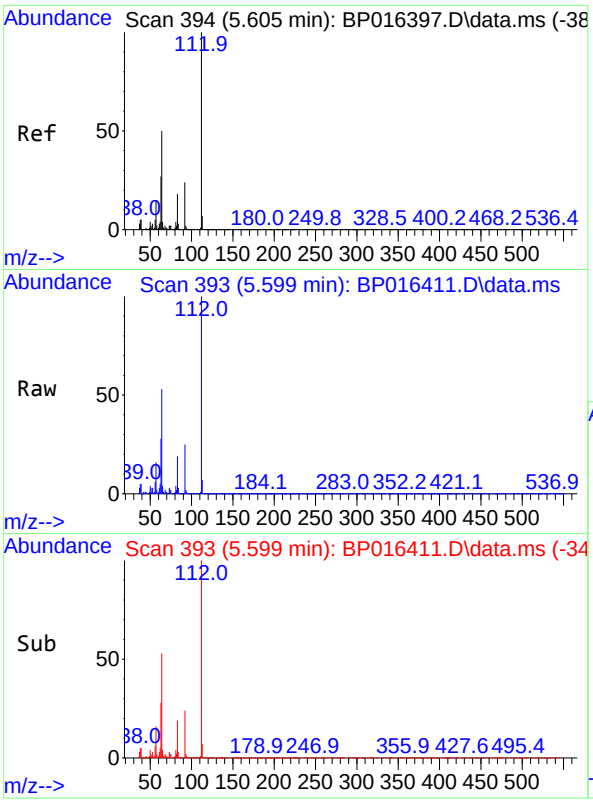


#4
n-Nitrosodimethylamine
Concen: 43.132 ng
RT: 3.805 min Scan# 88
Delta R.T. 0.000 min
Lab File: BP016411.D
Acq: 28 Jul 2023 08:03

Tgt Ion: 42 Resp: 588662

Ion	Ratio	Lower	Upper
42	100		
74	152.5	123.8	185.8
44	6.6	5.5	8.3

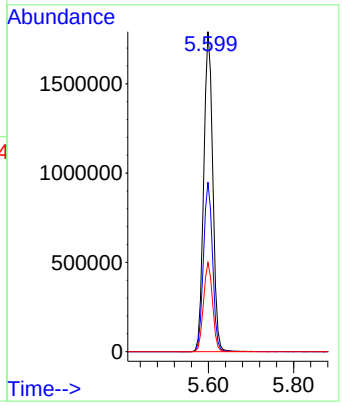




#5
2-Fluorophenol
Concen: 84.777 ng
RT: 5.599 min Scan# 3
Delta R.T. -0.006 min
Lab File: BP016411.D
Acq: 28 Jul 2023 08:03

Tgt Ion:112 Resp: 263223

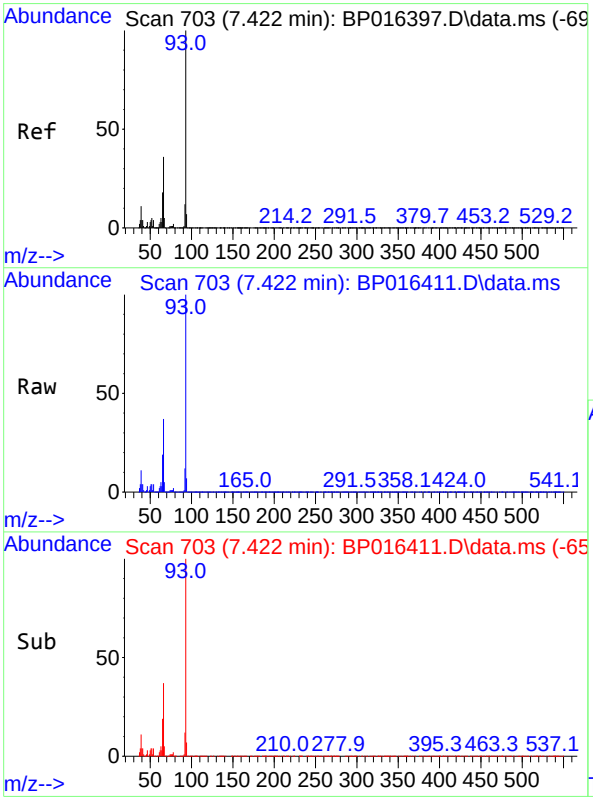
Ion	Ratio	Lower	Upper
112	100		
64	52.9	40.0	60.0
63	27.9	21.2	31.8



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

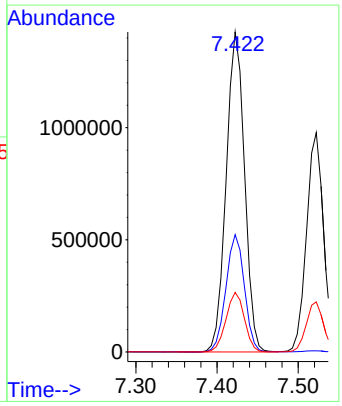
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

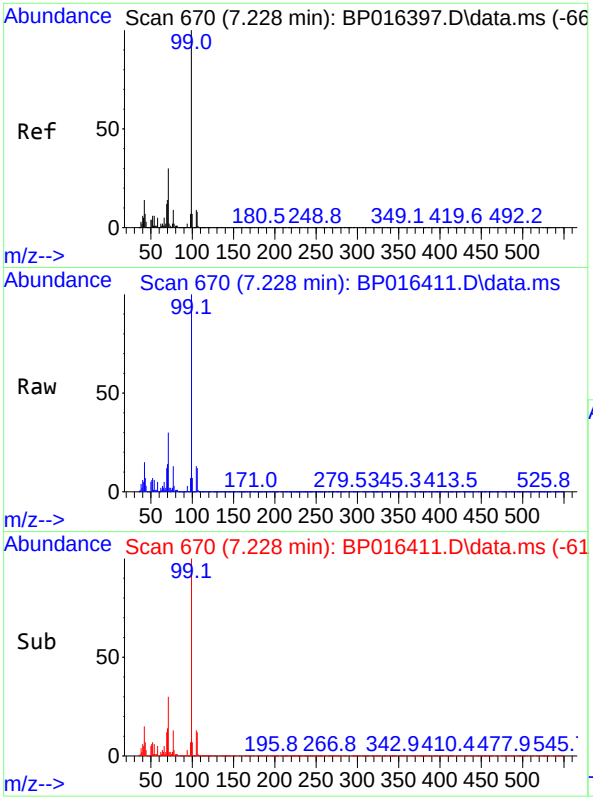


#6
Aniline
Concen: 42.695 ng
RT: 7.422 min Scan# 703
Delta R.T. 0.000 min
Lab File: BP016411.D
Acq: 28 Jul 2023 08:03

Tgt Ion: 93 Resp: 2244354

Ion	Ratio	Lower	Upper
93	100		
66	36.7	28.9	43.3
65	18.6	14.7	22.1

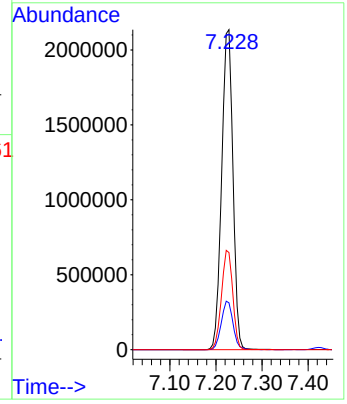




#7
Phenol-d6
Concen: 85.006 ng
RT: 7.228 min Scan# 6
Delta R.T. 0.000 min
Lab File: BP016411.D
Acq: 28 Jul 2023 08:03

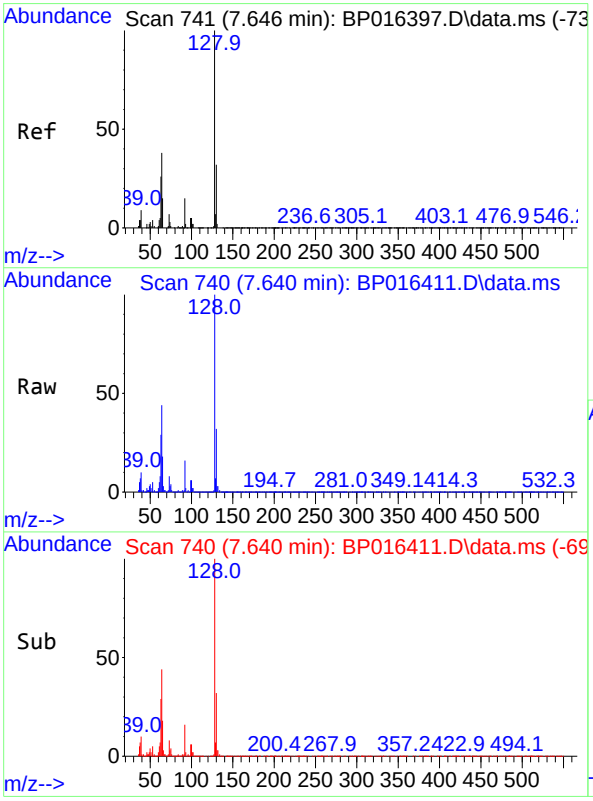
Tgt Ion: 99 Resp: 361770

Ion	Ratio	Lower	Upper
99	100		
42	14.7	11.6	17.4
71	30.4	24.3	36.5



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

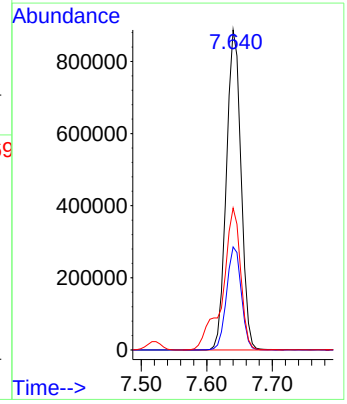
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

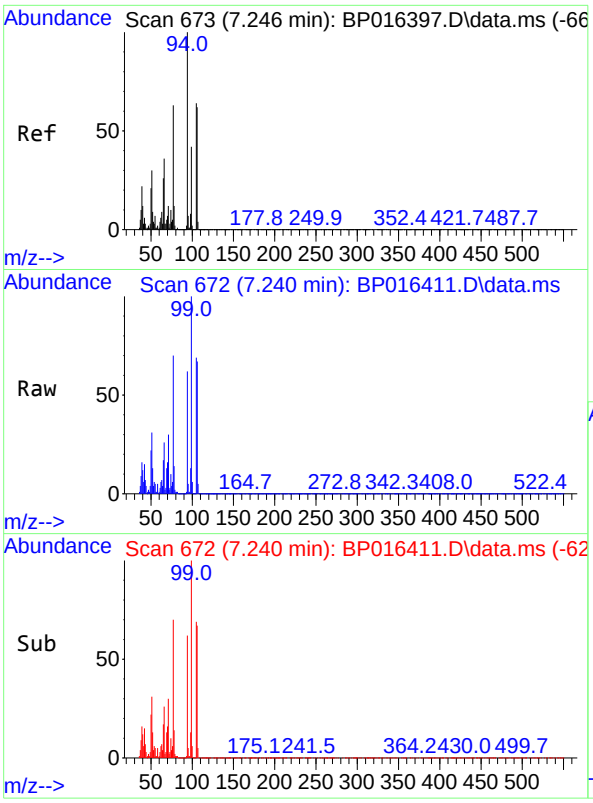


#8
2-Chlorophenol
Concen: 42.006 ng
RT: 7.640 min Scan# 740
Delta R.T. -0.006 min
Lab File: BP016411.D
Acq: 28 Jul 2023 08:03

Tgt Ion:128 Resp: 1367509

Ion	Ratio	Lower	Upper
128	100		
130	32.2	11.6	51.6
64	44.3	20.6	60.6

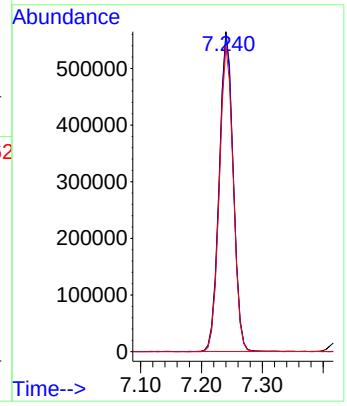




#9
Benzaldehyde
Concen: 48.142 ng
RT: 7.240 min Scan# 6
Delta R.T. -0.006 min
Lab File: BP016411.D
Acq: 28 Jul 2023 08:03

Tgt Ion: 77 Resp: 90074

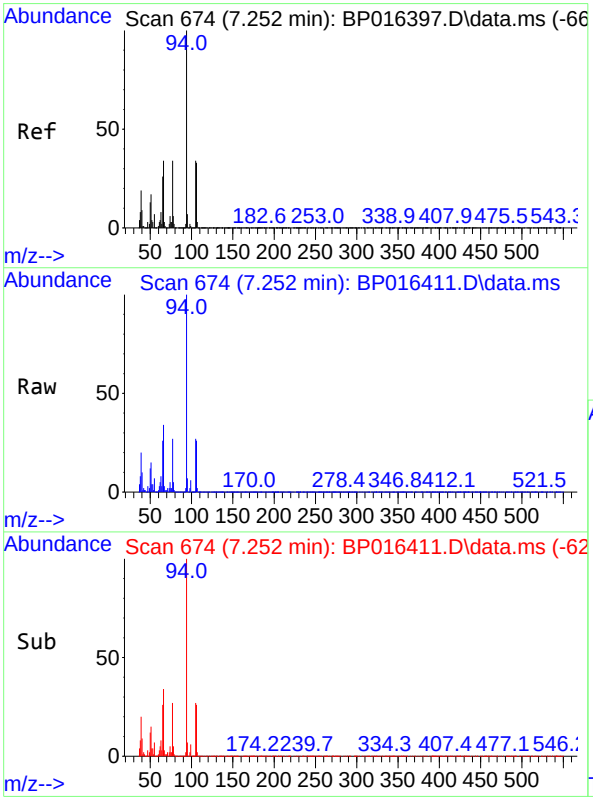
Ion	Ratio	Lower	Upper
77	100		
105	99.2	81.9	121.9
106	95.4	78.8	118.8



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

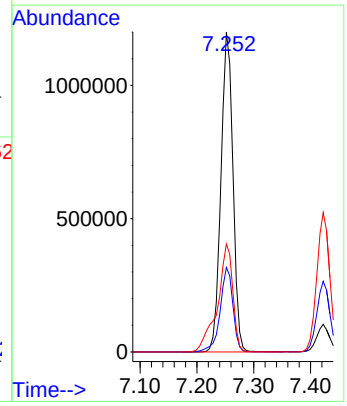
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

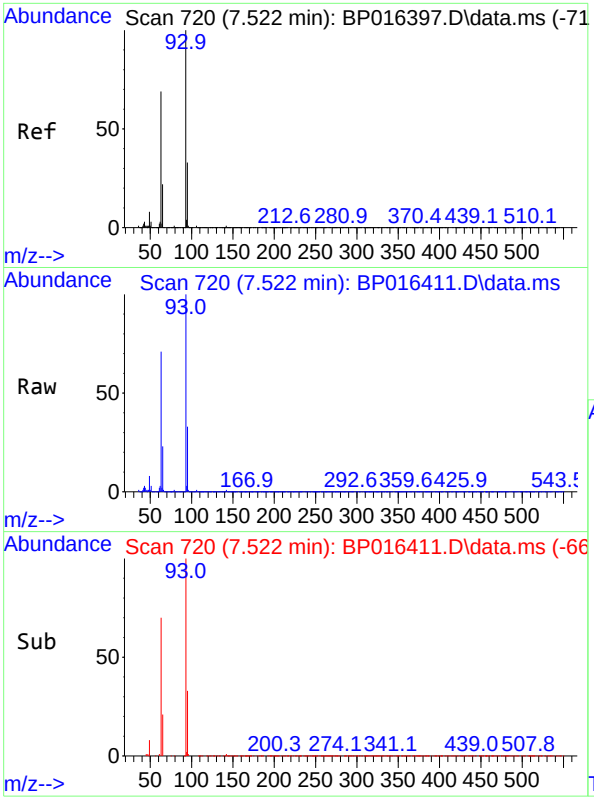


#10
Phenol
Concen: 42.571 ng
RT: 7.252 min Scan# 674
Delta R.T. 0.000 min
Lab File: BP016411.D
Acq: 28 Jul 2023 08:03

Tgt Ion: 94 Resp: 1759422

Ion	Ratio	Lower	Upper
94	100		
65	26.4	5.9	45.9
66	33.8	14.3	54.3

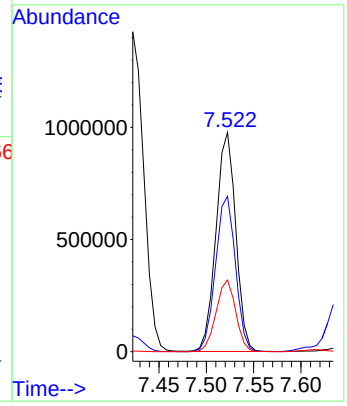




#11
bis(2-Chloroethyl)ether
Concen: 42.180 ng
RT: 7.522 min Scan# 7
Delta R.T. 0.000 min
Lab File: BP016411.D
Acq: 28 Jul 2023 08:03

Tgt Ion: 93 Resp: 141707

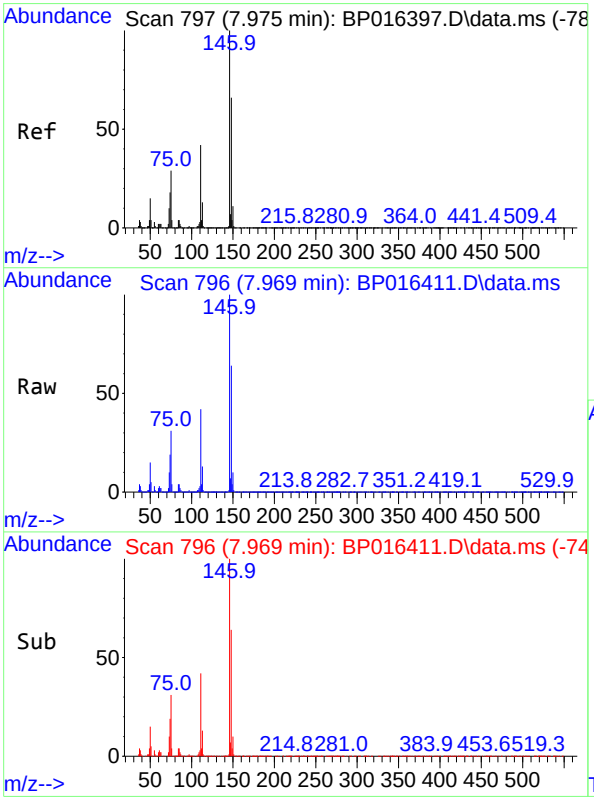
Ion	Ratio	Lower	Upper
93	100		
63	70.8	49.4	89.4
95	32.7	12.9	52.9



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

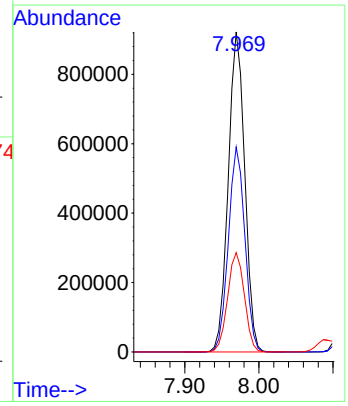
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

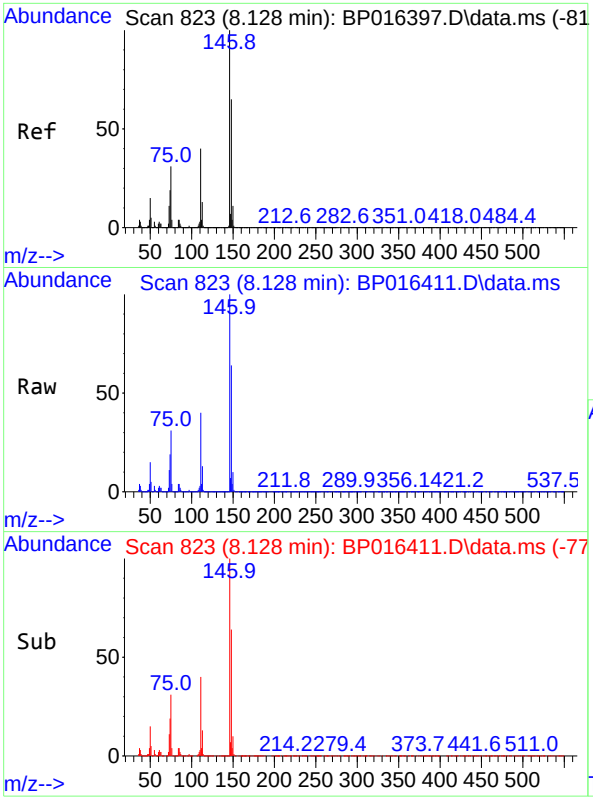


#12
1,3-Dichlorobenzene
Concen: 40.717 ng
RT: 7.969 min Scan# 796
Delta R.T. -0.006 min
Lab File: BP016411.D
Acq: 28 Jul 2023 08:03

Tgt Ion:146 Resp: 1422986

Ion	Ratio	Lower	Upper
146	100		
148	64.1	53.0	79.4
75	31.1	23.4	35.2

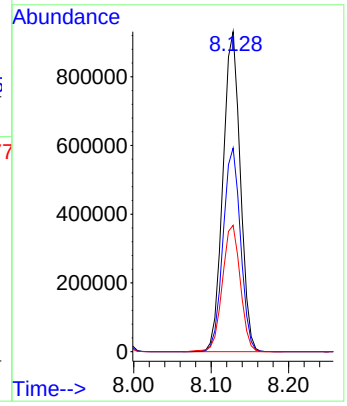




#13
1,4-Dichlorobenzene
Concen: 40.746 ng
RT: 8.128 min Scan# 8
Delta R.T. 0.000 min
Lab File: BP016411.D
Acq: 28 Jul 2023 08:03

Tgt Ion:146 Resp: 144449

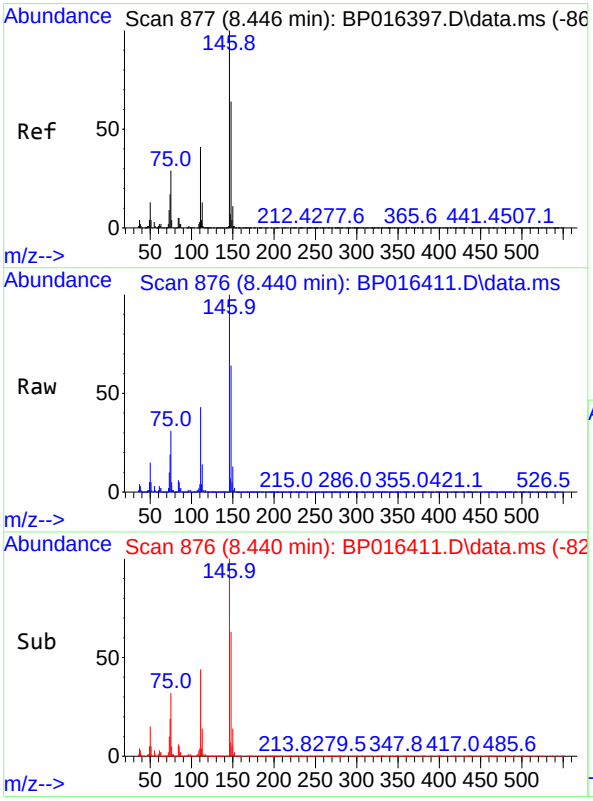
Ion	Ratio	Lower	Upper
146	100		
148	63.6	51.7	77.5
111	39.5	32.0	48.0



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

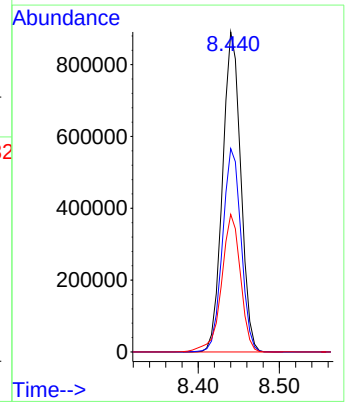
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

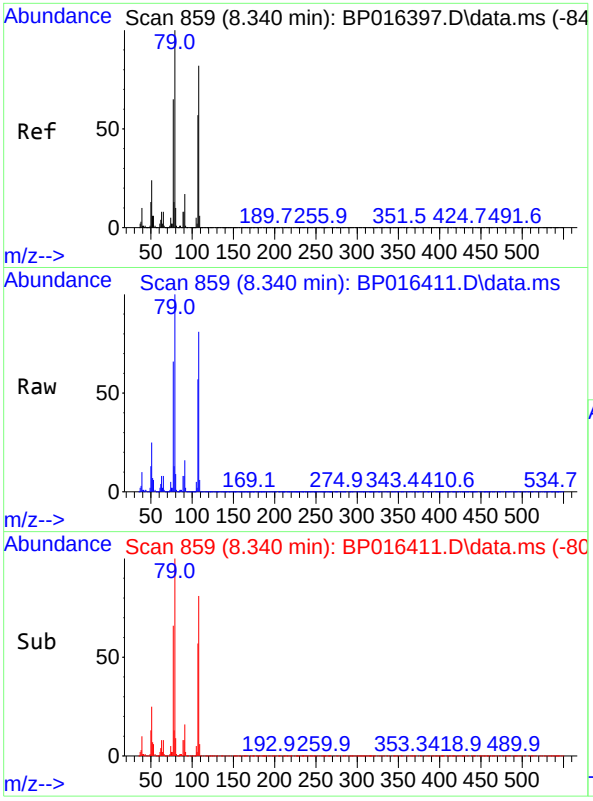


#14
1,2-Dichlorobenzene
Concen: 40.663 ng
RT: 8.440 min Scan# 876
Delta R.T. -0.006 min
Lab File: BP016411.D
Acq: 28 Jul 2023 08:03

Tgt Ion:146 Resp: 1387953

Ion	Ratio	Lower	Upper
146	100		
148	63.5	51.0	76.6
111	43.0	32.6	49.0

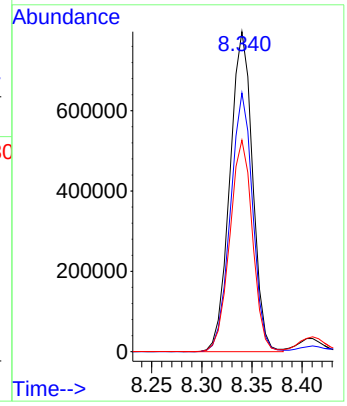




#15
Benzyl Alcohol
Concen: 43.150 ng
RT: 8.340 min Scan# 8
Delta R.T. 0.000 min
Lab File: BP016411.D
Acq: 28 Jul 2023 08:03

Tgt Ion: 79 Resp: 125460

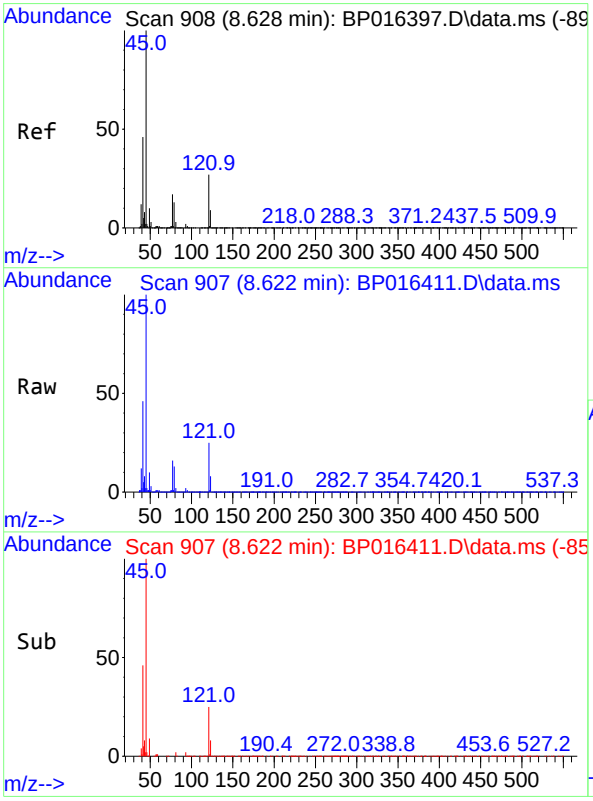
Ion	Ratio	Lower	Upper
79	100		
108	80.9	65.4	98.2
77	66.1	51.8	77.8



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

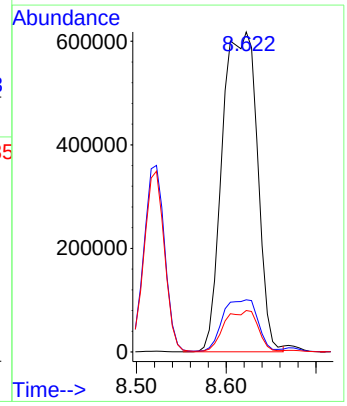
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

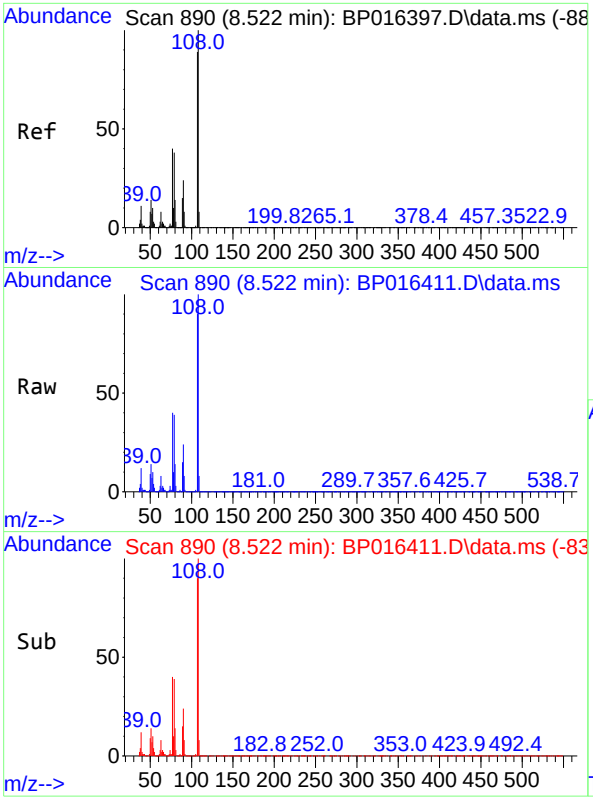


#16
2,2'-oxybis(1-Chloropropane)
Concen: 43.692 ng
RT: 8.622 min Scan# 907
Delta R.T. -0.006 min
Lab File: BP016411.D
Acq: 28 Jul 2023 08:03

Tgt Ion: 45 Resp: 1664678

Ion	Ratio	Lower	Upper
45	100		
77	16.3	0.0	37.3
79	13.0	0.0	33.3

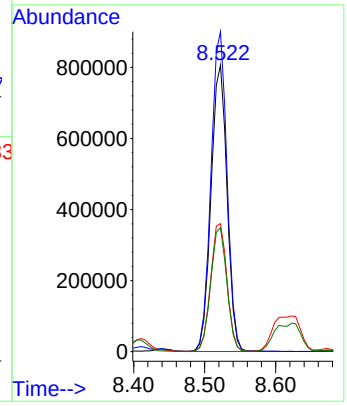




#17
2-Methylphenol
Concen: 42.317 ng
RT: 8.522 min Scan# 8
Delta R.T. 0.000 min
Lab File: BP016411.D
Acq: 28 Jul 2023 08:03

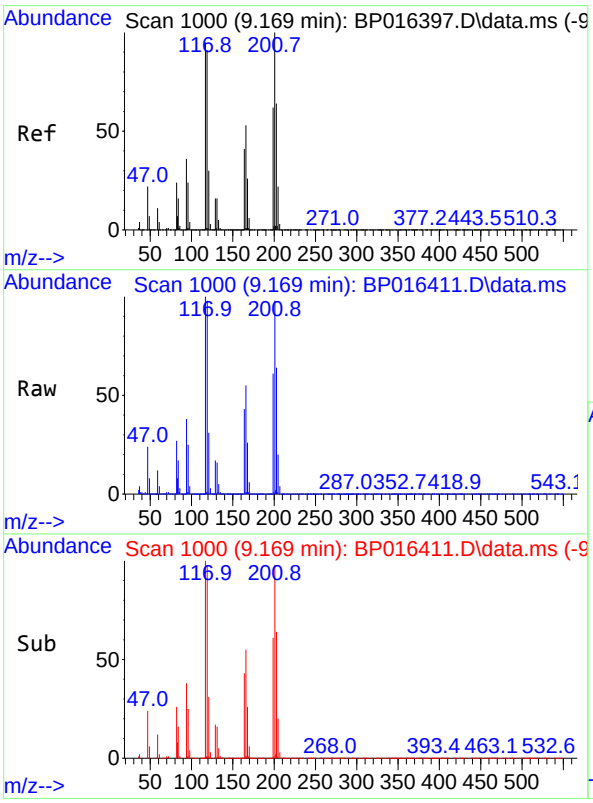
Tgt Ion:107 Resp: 126043

Ion	Ratio	Lower	Upper
107	100		
108	111.6	89.6	134.4
77	44.7	35.6	53.4
79	43.3	34.2	51.2



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

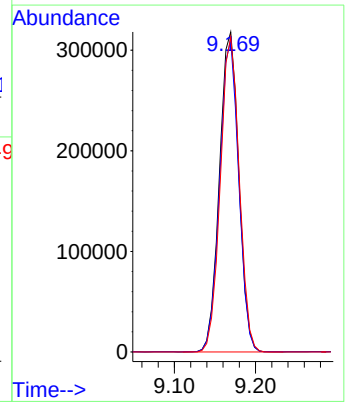
Manual Integrations APPROVED
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

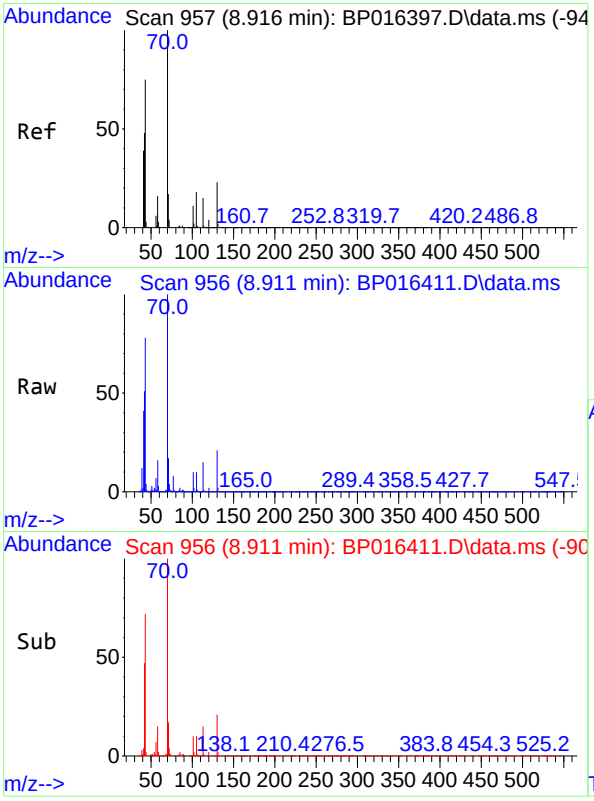


#18
Hexachloroethane
Concen: 41.599 ng
RT: 9.169 min Scan# 1000
Delta R.T. 0.000 min
Lab File: BP016411.D
Acq: 28 Jul 2023 08:03

Tgt Ion:117 Resp: 526025

Ion	Ratio	Lower	Upper
117	100		
119	97.5	76.9	115.3
201	98.4	86.2	129.4

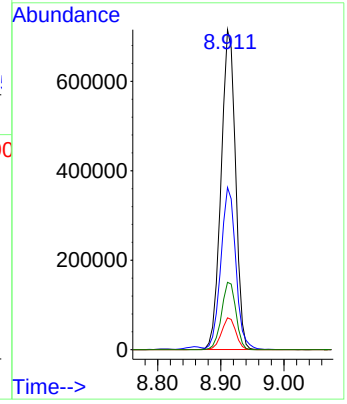




#19
n-Nitroso-di-n-propylamine
Concen: 42.496 ng
RT: 8.911 min Scan# 9
Delta R.T. -0.006 min
Lab File: BP016411.D
Acq: 28 Jul 2023 08:03

Tgt Ion: 70 Resp: 113301

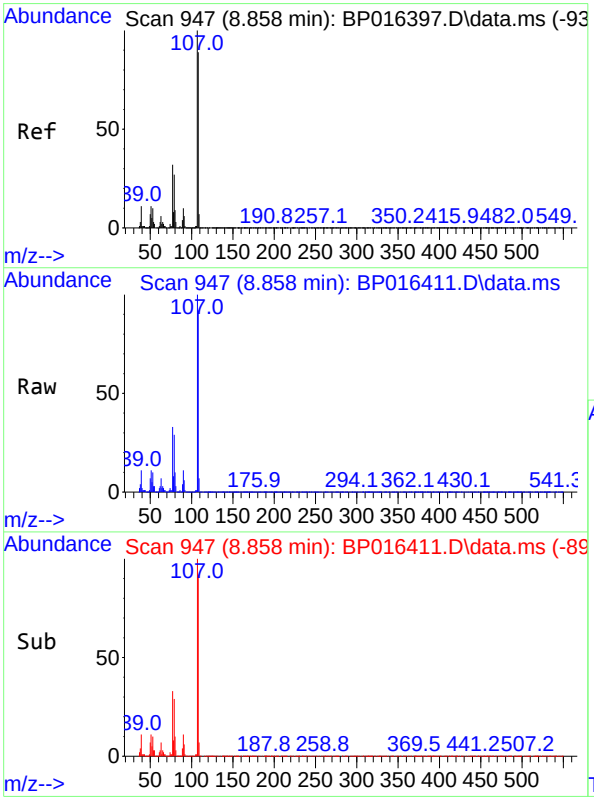
Ion	Ratio	Lower	Upper
70	100		
42	50.7	39.3	58.9
101	10.0	8.6	12.8
130	21.1	18.6	28.0



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

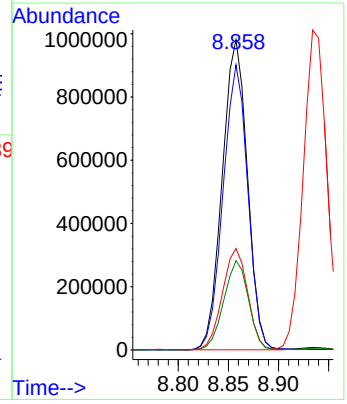
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

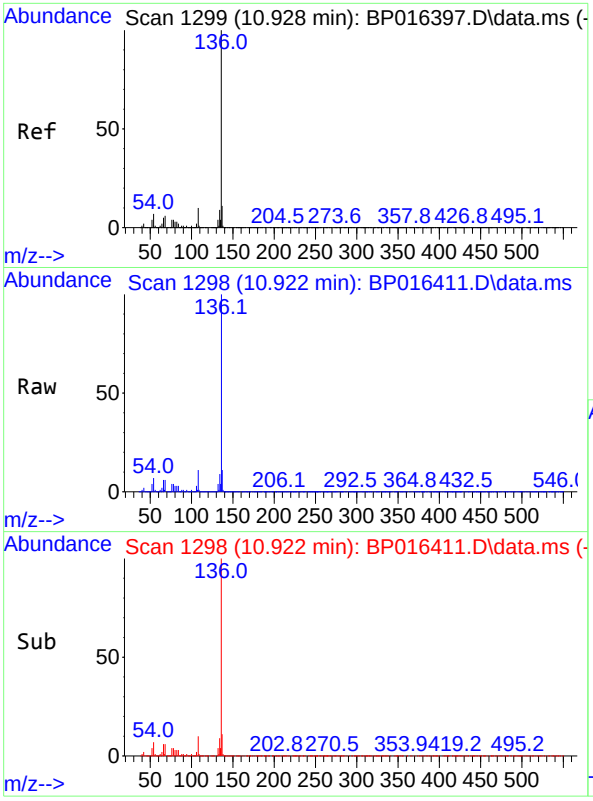


#20
3+4-Methylphenols
Concen: 42.344 ng
RT: 8.858 min Scan# 947
Delta R.T. 0.000 min
Lab File: BP016411.D
Acq: 28 Jul 2023 08:03

Tgt Ion:107 Resp: 1712938

Ion	Ratio	Lower	Upper
107	100		
108	91.9	69.1	109.1
77	32.7	12.0	52.0
79	28.8	7.5	47.5

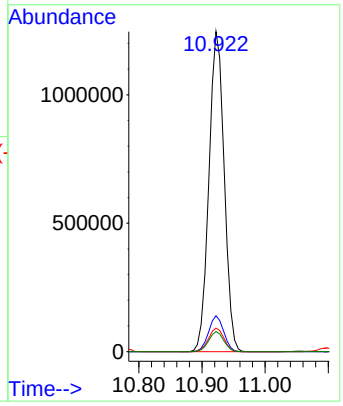




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.922 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP016411.D
Acq: 28 Jul 2023 08:03

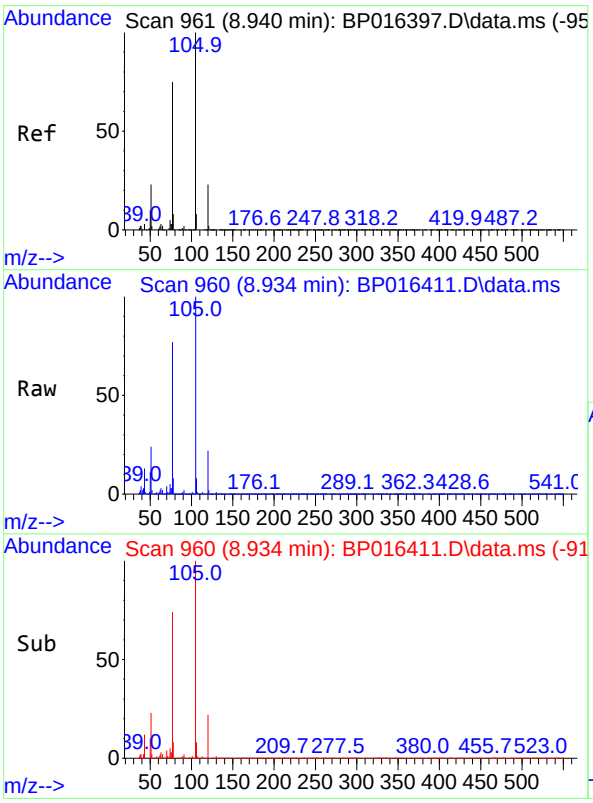
Tgt Ion:136 Resp: 209064

Ion	Ratio	Lower	Upper
136	100		
137	11.2	8.6	13.0
54	7.4	5.6	8.4
68	6.3	4.6	6.8



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

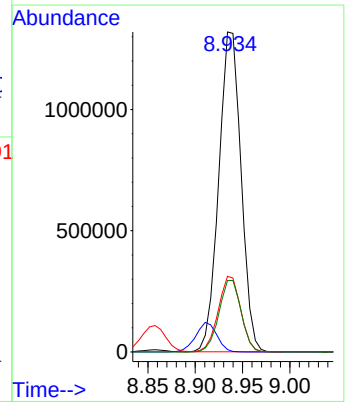
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

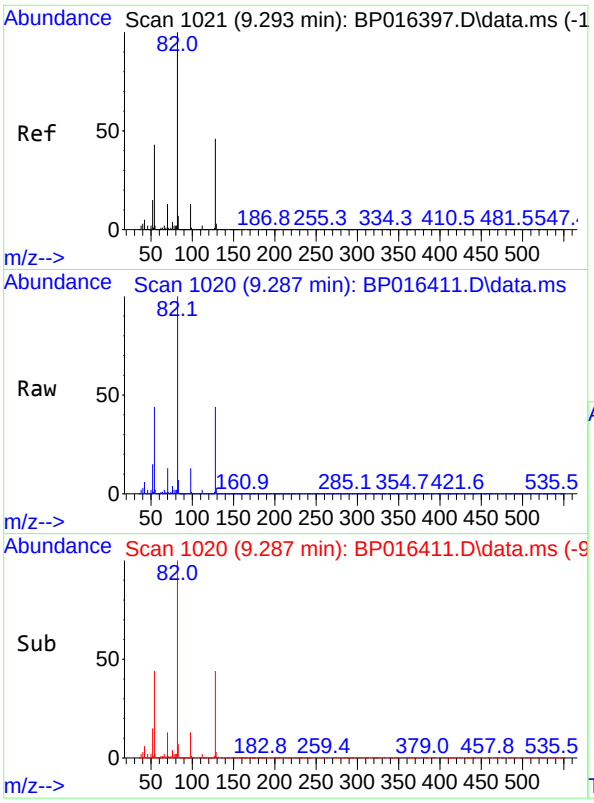


#22
Acetophenone
Concen: 41.032 ng
RT: 8.934 min Scan# 960
Delta R.T. -0.006 min
Lab File: BP016411.D
Acq: 28 Jul 2023 08:03

Tgt Ion:105 Resp: 2165858

Ion	Ratio	Lower	Upper
105	100		
71	0.8	0.2	0.2#
51	23.7	18.3	27.5
120	22.3	18.2	27.2

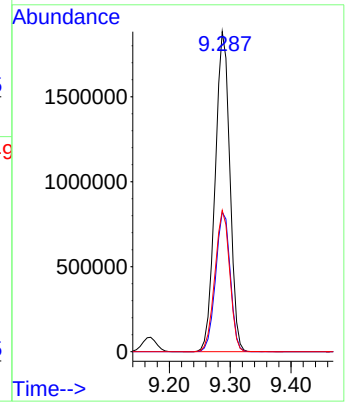




#23
Nitrobenzene-d5
Concen: 84.257 ng
RT: 9.287 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP016411.D
Acq: 28 Jul 2023 08:03

Tgt Ion: 82 Resp: 314676

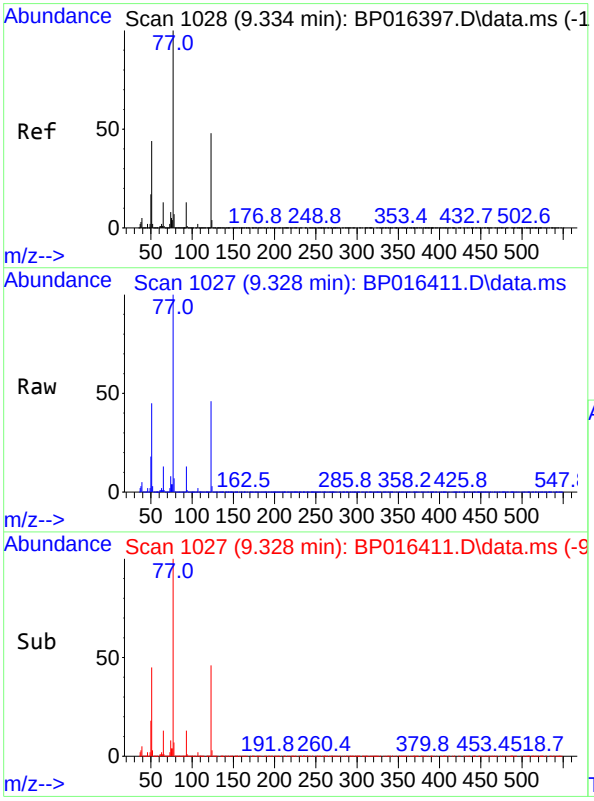
Ion	Ratio	Lower	Upper
82	100		
128	43.6	36.6	55.0
54	44.1	34.5	51.7



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

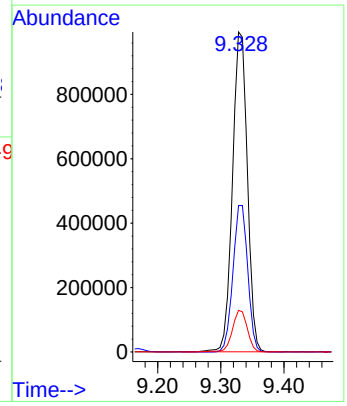
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

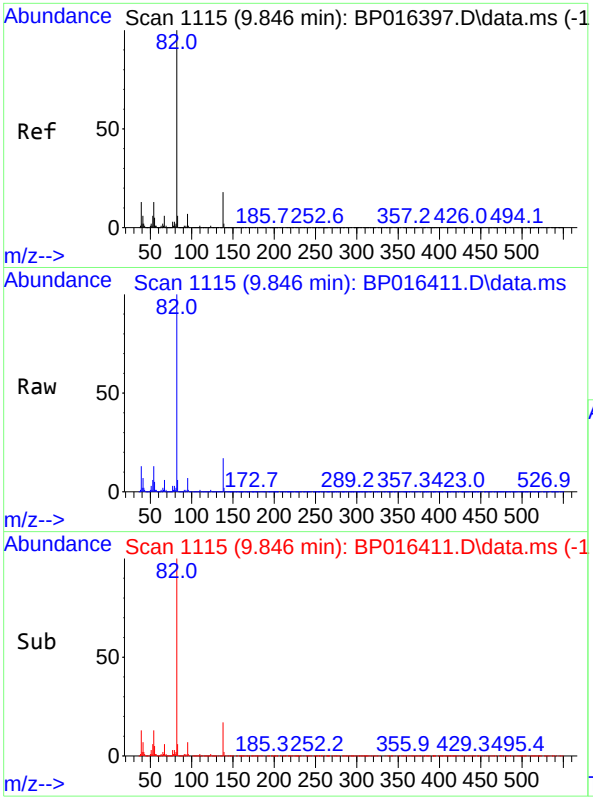


#24
Nitrobenzene
Concen: 42.292 ng
RT: 9.328 min Scan# 1027
Delta R.T. -0.006 min
Lab File: BP016411.D
Acq: 28 Jul 2023 08:03

Tgt Ion: 77 Resp: 1622303

Ion	Ratio	Lower	Upper
77	100		
123	45.8	38.6	58.0
65	13.0	10.5	15.7

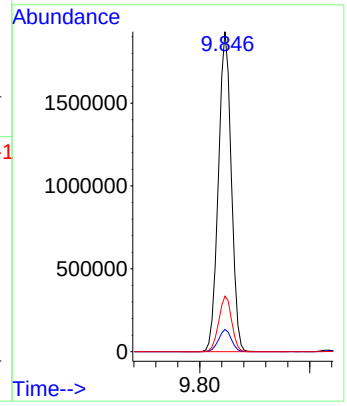




#25
Isophorone
Concen: 41.602 ng
RT: 9.846 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP016411.D
Acq: 28 Jul 2023 08:03

Tgt Ion: 82 Resp: 313681

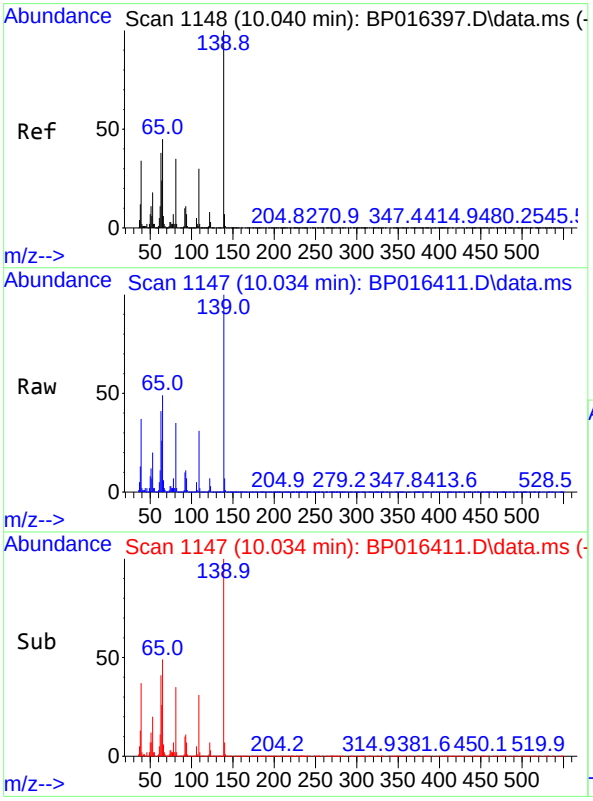
Ion	Ratio	Lower	Upper
82	100		
95	7.0	5.7	8.5
138	17.3	14.6	22.0



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

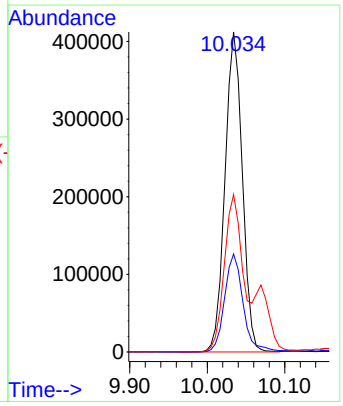
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

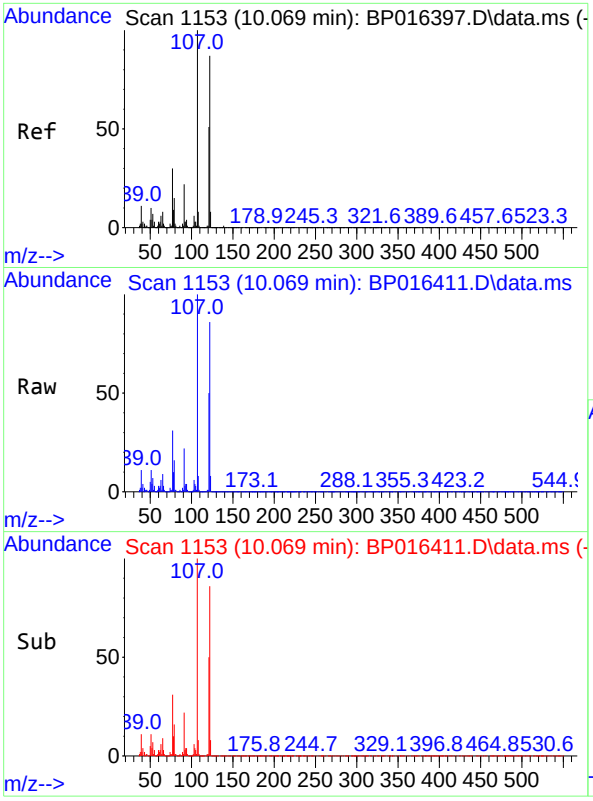


#26
2-Nitrophenol
Concen: 39.379 ng
RT: 10.034 min Scan# 1147
Delta R.T. -0.006 min
Lab File: BP016411.D
Acq: 28 Jul 2023 08:03

Tgt Ion:139 Resp: 641121

Ion	Ratio	Lower	Upper
139	100		
109	30.6	24.2	36.4
65	49.2	35.8	53.6

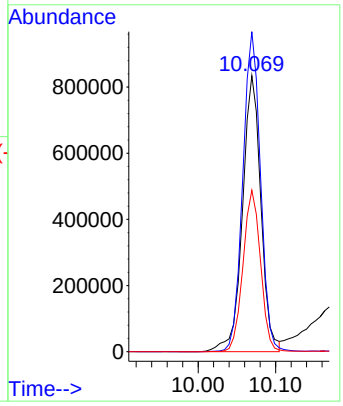




#27
2,4-Dimethylphenol
Concen: 40.851 ng
RT: 10.069 min Scan# 11
Delta R.T. 0.000 min
Lab File: BP016411.D
Acq: 28 Jul 2023 08:03

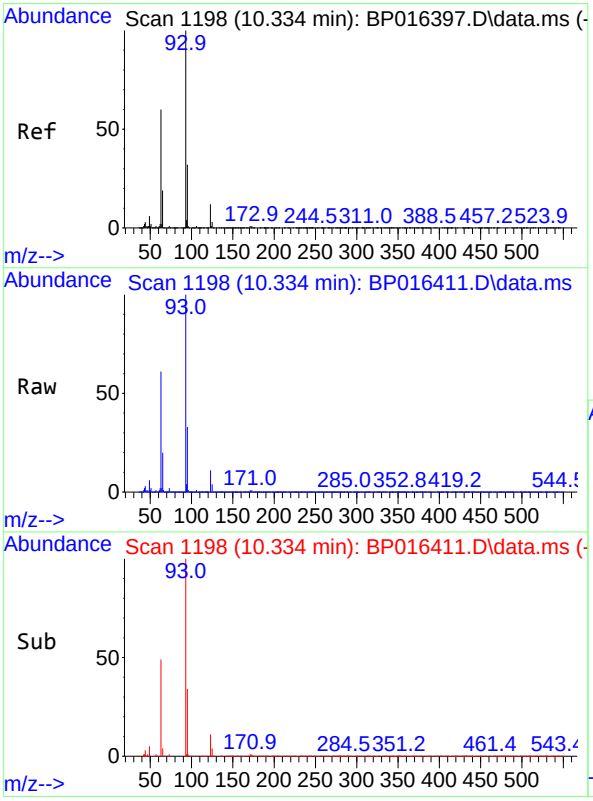
Tgt Ion:122 Resp: 137802

Ion	Ratio	Lower	Upper
122	100		
107	115.9	91.9	137.9
121	58.5	47.2	70.8



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

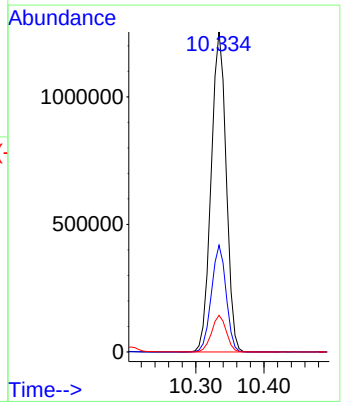
Manual Integrations APPROVED
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

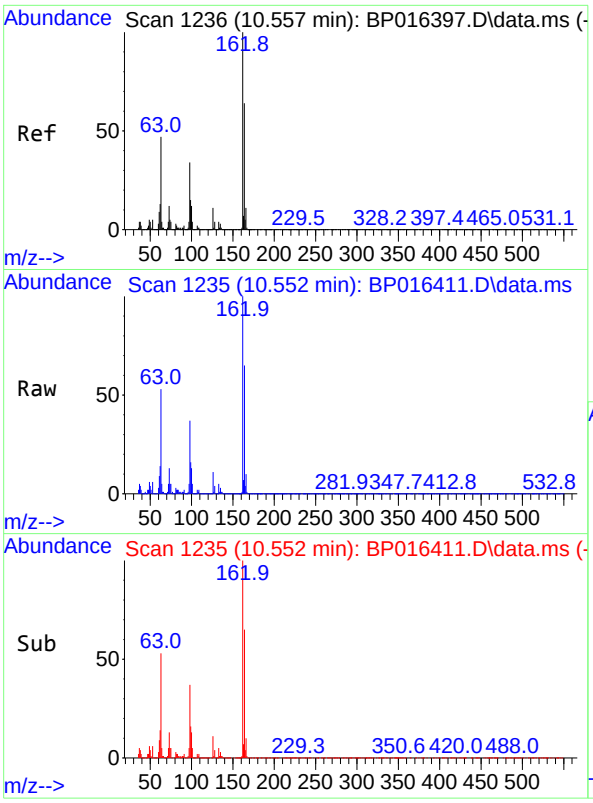


#28
bis(2-Chloroethoxy)methane
Concen: 41.688 ng
RT: 10.334 min Scan# 1198
Delta R.T. 0.000 min
Lab File: BP016411.D
Acq: 28 Jul 2023 08:03

Tgt Ion: 93 Resp: 1925398

Ion	Ratio	Lower	Upper
93	100		
95	33.3	25.8	38.8
123	11.4	9.4	14.0

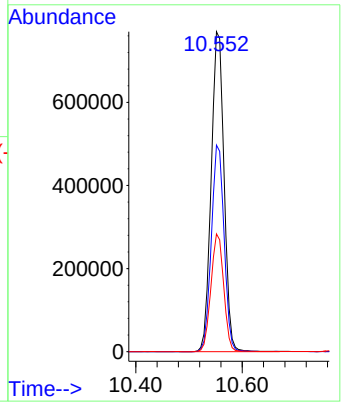




#29
2,4-Dichlorophenol
Concen: 40.835 ng
RT: 10.552 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP016411.D
Acq: 28 Jul 2023 08:03

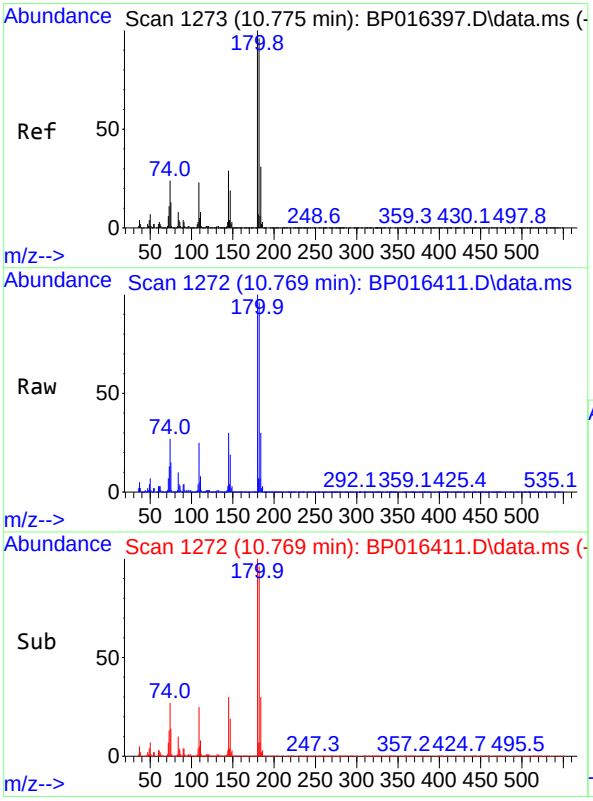
Tgt Ion:162 Resp: 128914

Ion	Ratio	Lower	Upper
162	100		
164	64.6	44.2	84.2
98	36.8	13.7	53.7



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

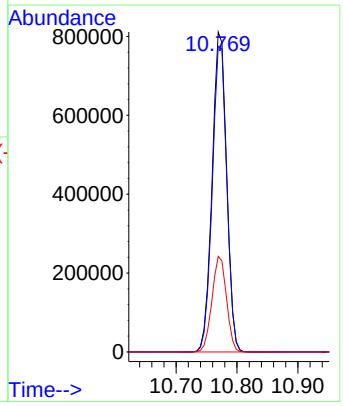
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

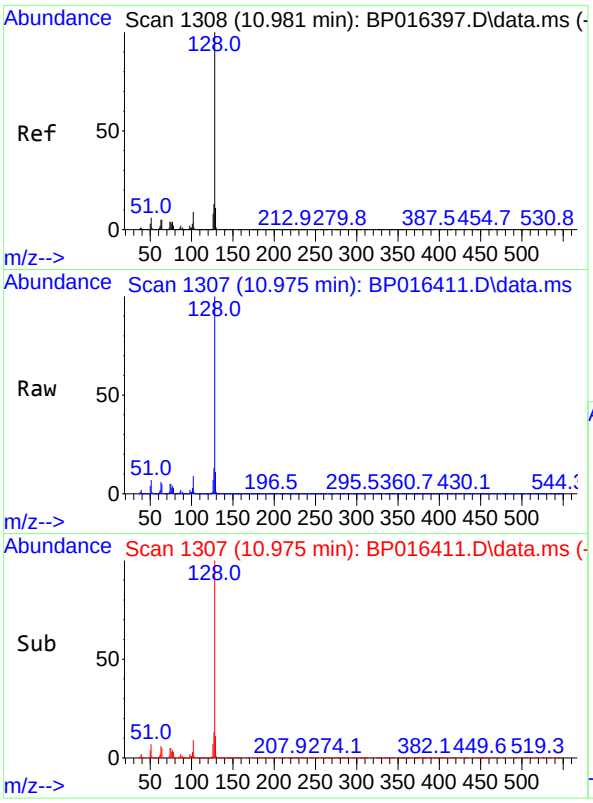


#30
1,2,4-Trichlorobenzene
Concen: 39.173 ng
RT: 10.769 min Scan# 1272
Delta R.T. -0.006 min
Lab File: BP016411.D
Acq: 28 Jul 2023 08:03

Tgt Ion:180 Resp: 1339468

Ion	Ratio	Lower	Upper
180	100		
182	95.5	77.1	115.7
145	29.9	22.9	34.3

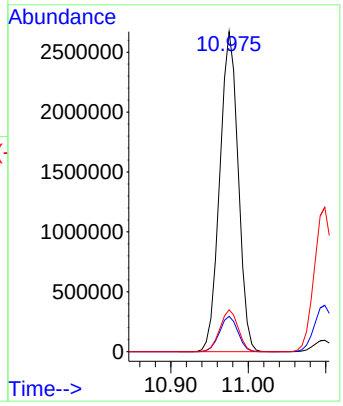




#31
Naphthalene
Concen: 40.344 ng
RT: 10.975 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP016411.D
Acq: 28 Jul 2023 08:03

Tgt Ion:128 Resp: 441183

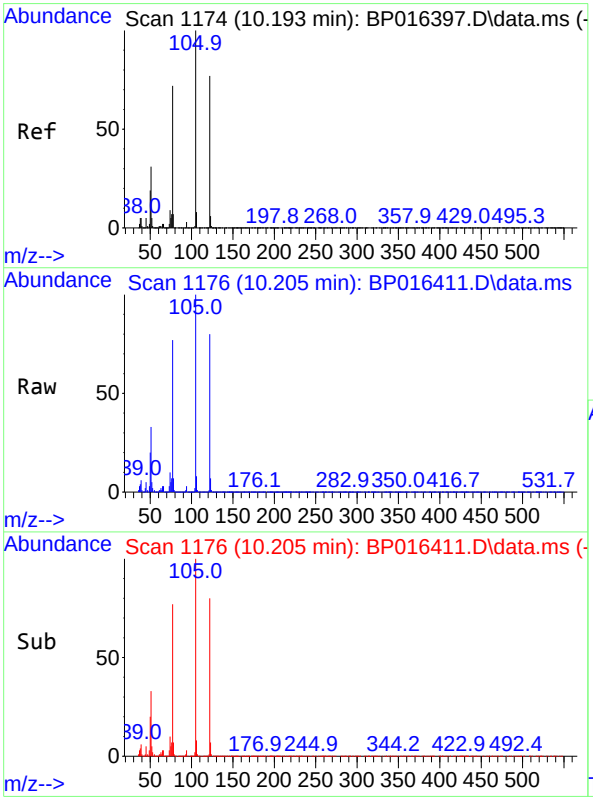
Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.6	12.8
127	13.1	10.4	15.6



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

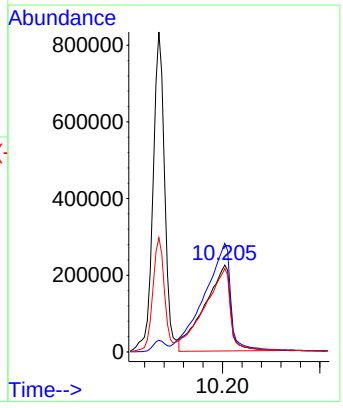
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

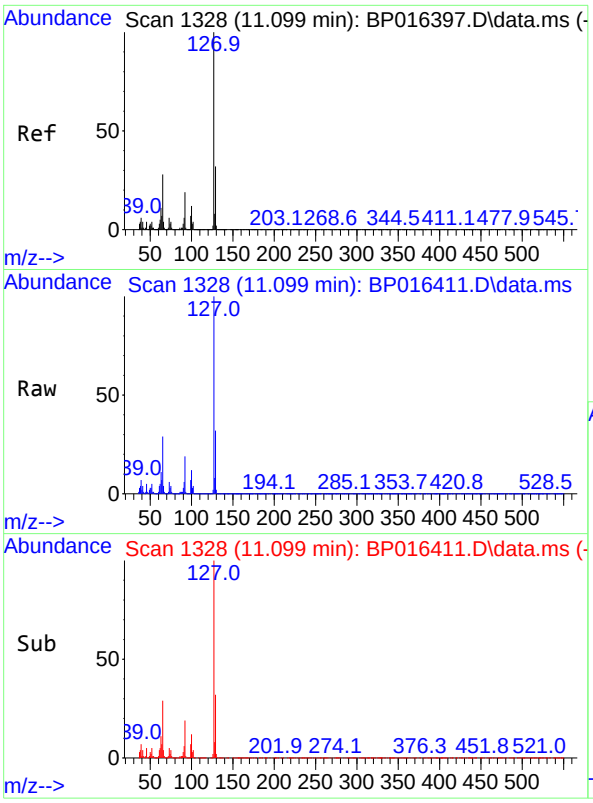


#32
Benzoic acid
Concen: 39.018 ng
RT: 10.205 min Scan# 1176
Delta R.T. 0.012 min
Lab File: BP016411.D
Acq: 28 Jul 2023 08:03

Tgt Ion:122 Resp: 833575

Ion	Ratio	Lower	Upper
122	100		
105	124.9	105.2	145.2
77	96.0	72.2	112.2

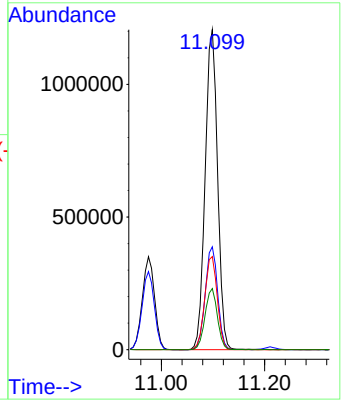




#33
4-Chloroaniline
Concen: 40.668 ng
RT: 11.099 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP016411.D
Acq: 28 Jul 2023 08:03

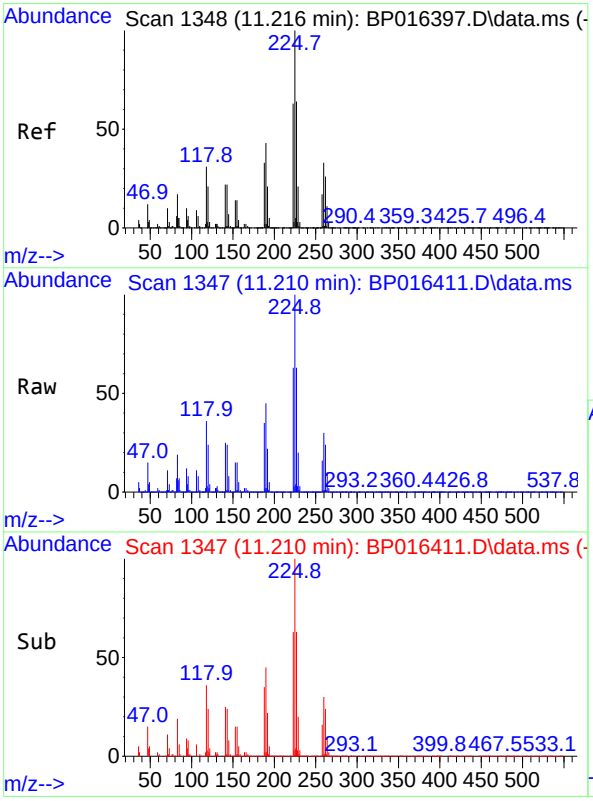
Tgt Ion:127 Resp: 200608

Ion	Ratio	Lower	Upper
127	100		
129	32.2	25.8	38.8
65	29.1	22.7	34.1
92	19.1	14.9	22.3



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

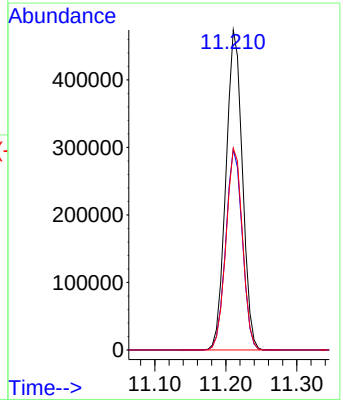
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

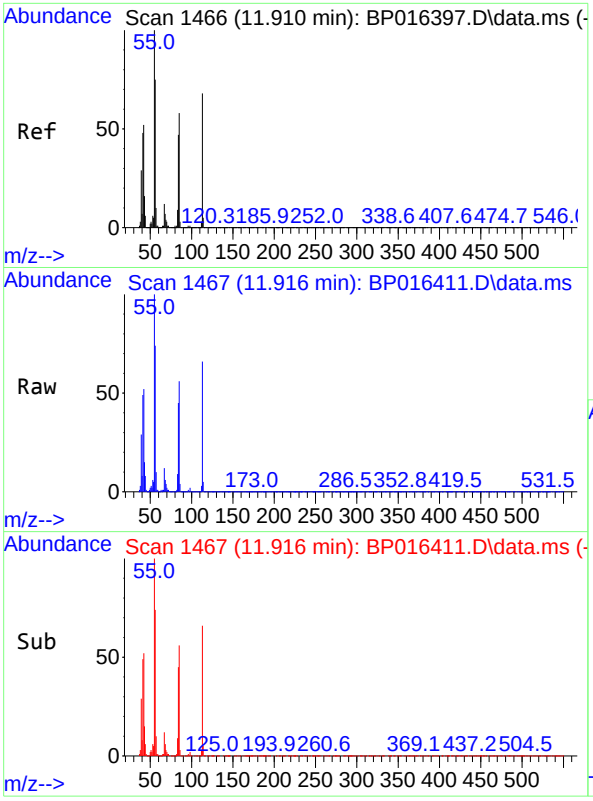


#34
Hexachlorobutadiene
Concen: 37.634 ng
RT: 11.210 min Scan# 1347
Delta R.T. -0.006 min
Lab File: BP016411.D
Acq: 28 Jul 2023 08:03

Tgt Ion:225 Resp: 761881

Ion	Ratio	Lower	Upper
225	100		
223	62.7	50.2	75.4
227	63.1	51.0	76.6

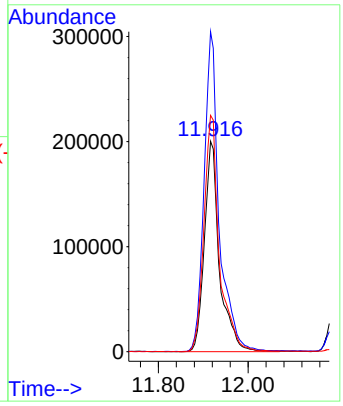




#35
Caprolactam
Concen: 40.432 ng
RT: 11.916 min Scan# 14
Delta R.T. 0.006 min
Lab File: BP016411.D
Acq: 28 Jul 2023 08:03

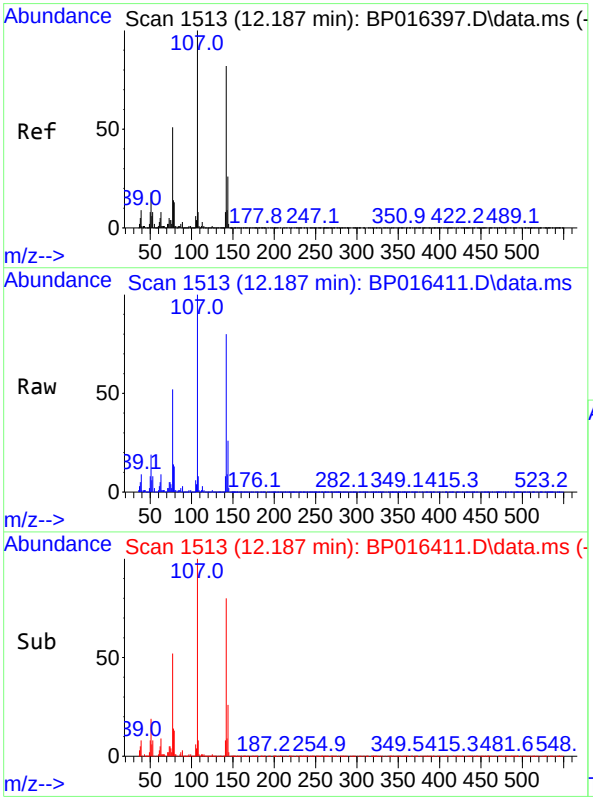
Tgt Ion:113 Resp: 46641

Ion	Ratio	Lower	Upper
113	100		
55	152.1	128.0	168.0
56	112.3	91.3	131.3



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

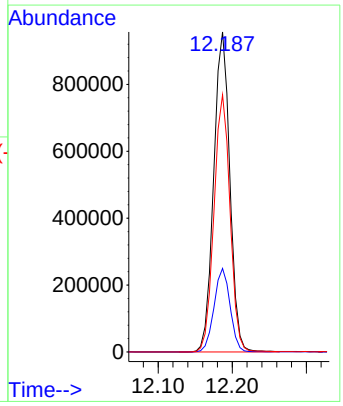
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

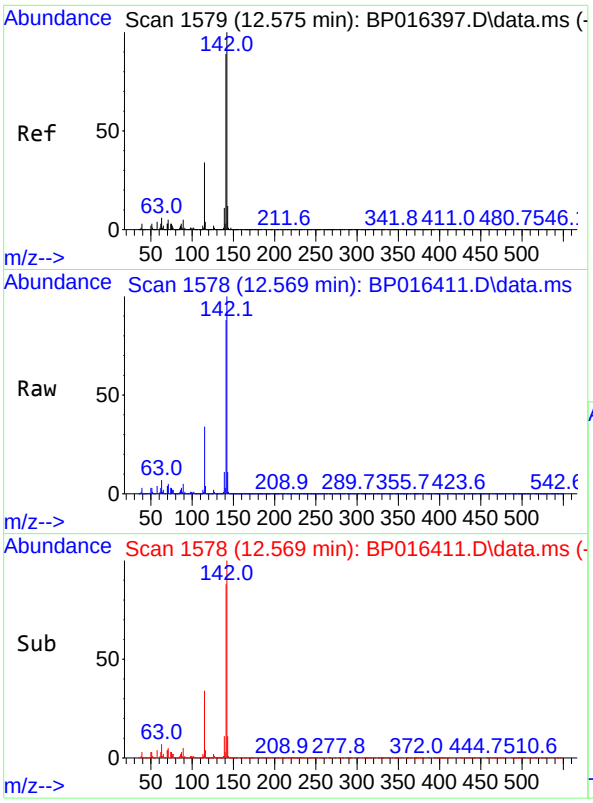


#36
4-Chloro-3-methylphenol
Concen: 41.211 ng
RT: 12.187 min Scan# 1513
Delta R.T. 0.000 min
Lab File: BP016411.D
Acq: 28 Jul 2023 08:03

Tgt Ion:107 Resp: 1446146

Ion	Ratio	Lower	Upper
107	100		
144	26.1	21.0	31.6
142	80.4	65.6	98.4

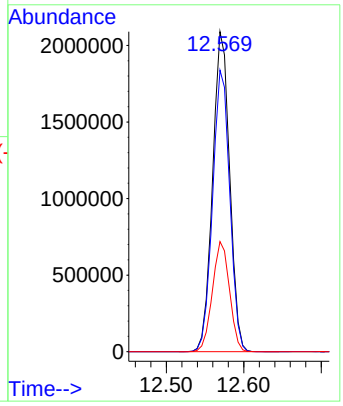




#37
2-Methylnaphthalene
Concen: 40.110 ng
RT: 12.569 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP016411.D
Acq: 28 Jul 2023 08:03

Tgt Ion:142 Resp: 318651

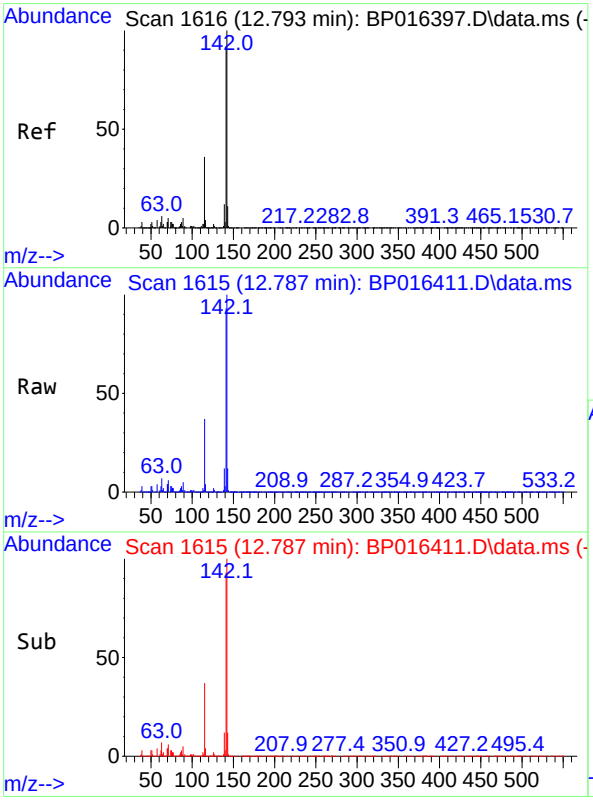
Ion	Ratio	Lower	Upper
142	100		
141	87.9	71.4	107.2
115	34.4	27.0	40.4



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

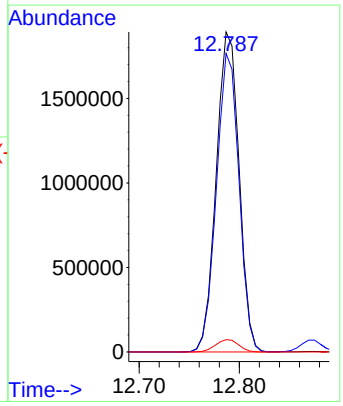
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

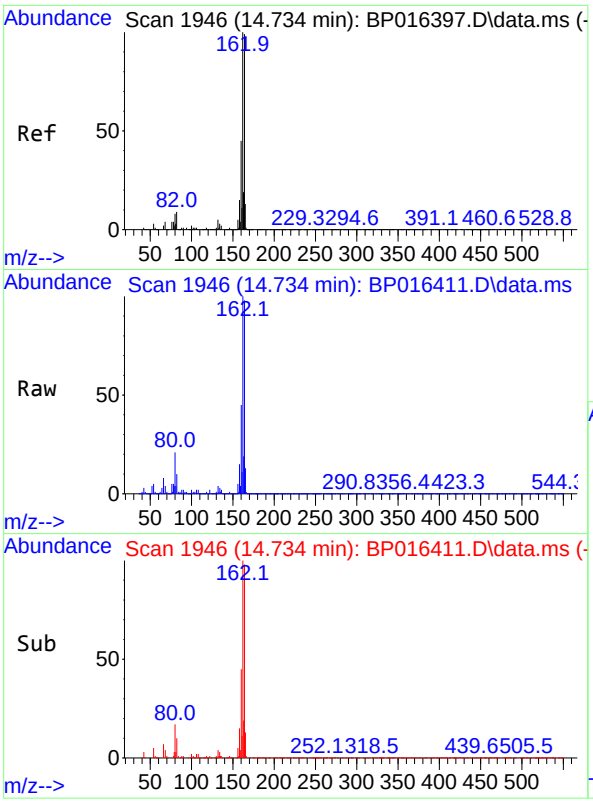


#38
1-Methylnaphthalene
Concen: 40.146 ng
RT: 12.787 min Scan# 1615
Delta R.T. -0.006 min
Lab File: BP016411.D
Acq: 28 Jul 2023 08:03

Tgt Ion:142 Resp: 2990085

Ion	Ratio	Lower	Upper
142	100		
141	93.3	73.8	110.6
116	3.8	2.9	4.3

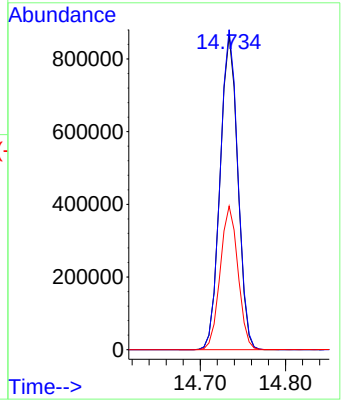




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.734 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP016411.D
Acq: 28 Jul 2023 08:03

Tgt Ion:164 Resp: 124829

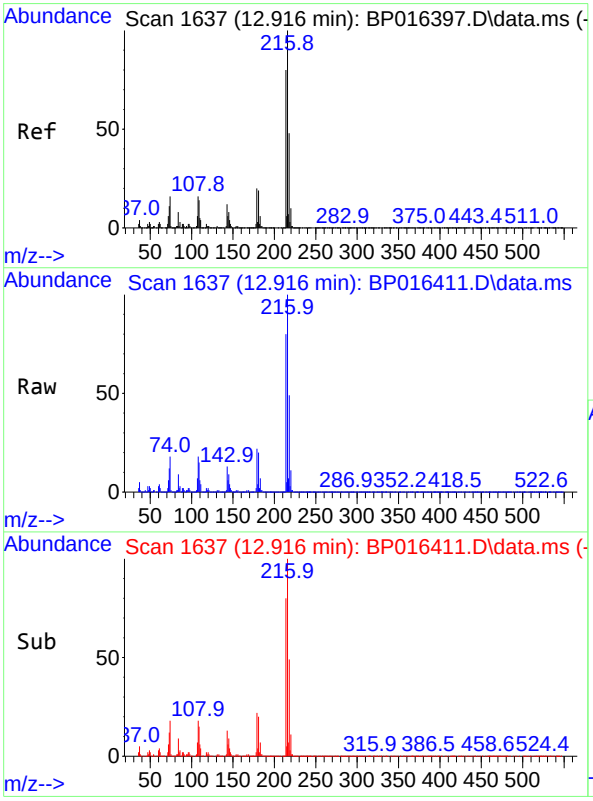
Ion	Ratio	Lower	Upper
164	100		
162	101.9	81.0	121.6
160	45.7	36.6	55.0



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

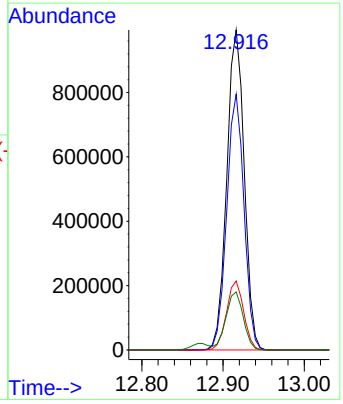
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

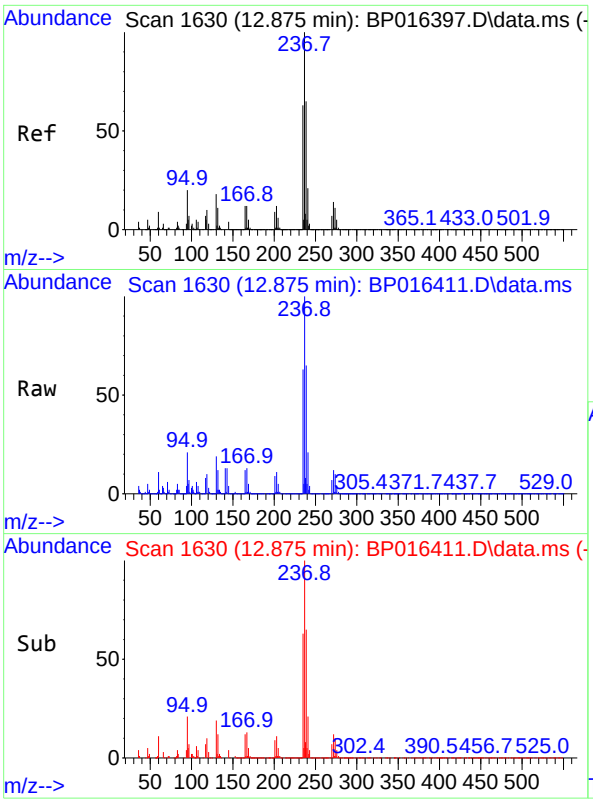


#40
1,2,4,5-Tetrachlorobenzene
Concen: 39.126 ng
RT: 12.916 min Scan# 1637
Delta R.T. 0.000 min
Lab File: BP016411.D
Acq: 28 Jul 2023 08:03

Tgt Ion:216 Resp: 1484241

Ion	Ratio	Lower	Upper
216	100		
214	79.0	62.8	94.2
179	21.2	16.0	24.0
108	18.1	12.6	19.0





#41
Hexachlorocyclopentadiene
Concen: 40.485 ng
RT: 12.875 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP016411.D
Acq: 28 Jul 2023 08:03

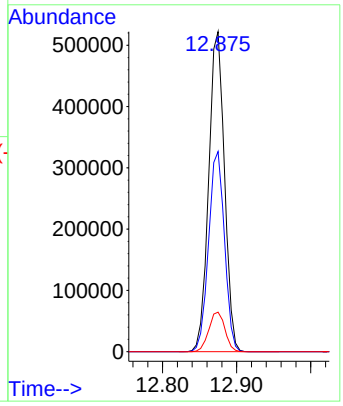
Tgt Ion:237 Resp: 77132

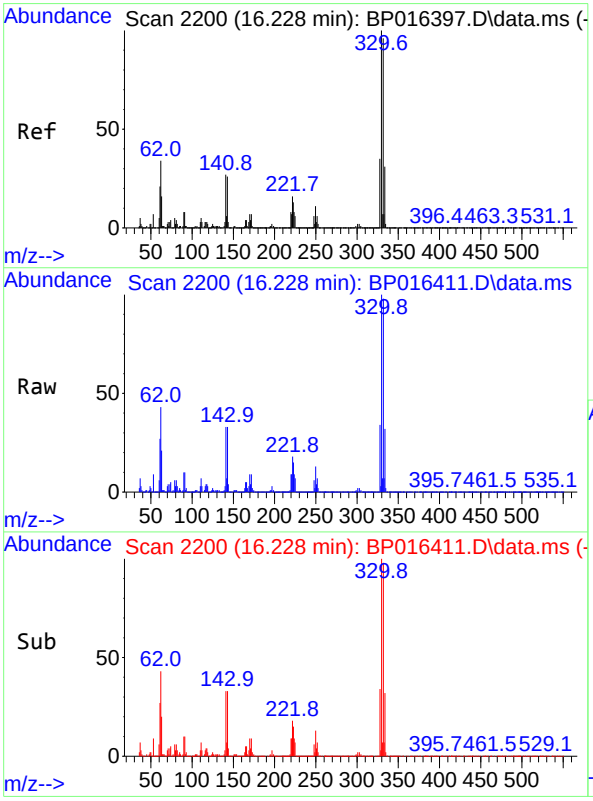
Ion	Ratio	Lower	Upper
237	100		
235	62.6	42.7	82.7
272	12.4	0.0	33.5

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

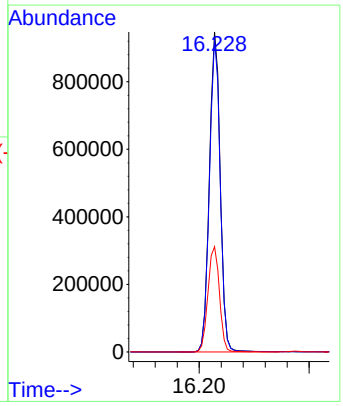


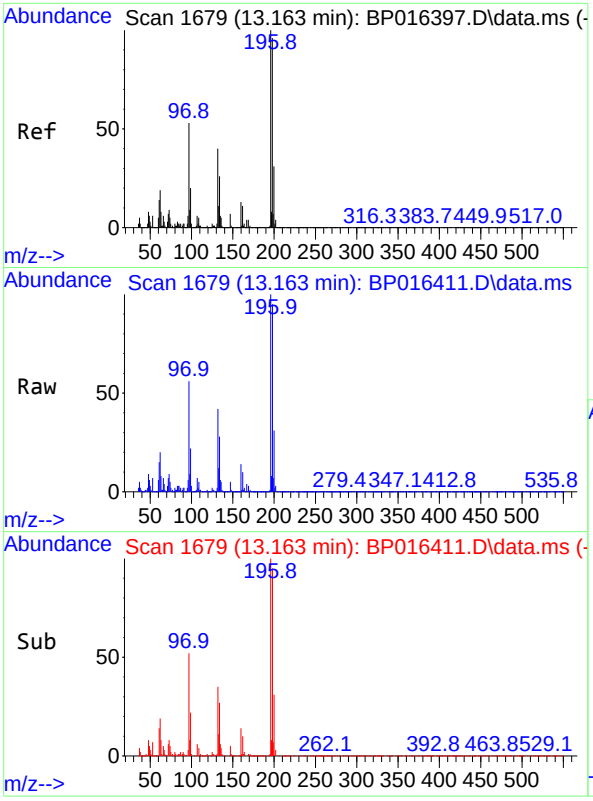


#42
2,4,6-Tribromophenol
Concen: 70.473 ng
RT: 16.228 min Scan# 2200
Delta R.T. -0.000 min
Lab File: BP016411.D
Acq: 28 Jul 2023 08:03

Tgt Ion:330 Resp: 1294191

Ion	Ratio	Lower	Upper
330	100		
332	97.4	77.8	116.8
141	35.1	22.6	34.0#

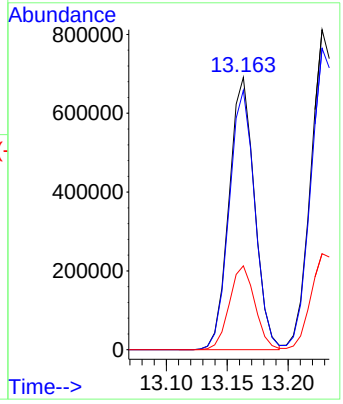




#43
2,4,6-Trichlorophenol
Concen: 41.224 ng
RT: 13.163 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP016411.D
Acq: 28 Jul 2023 08:03

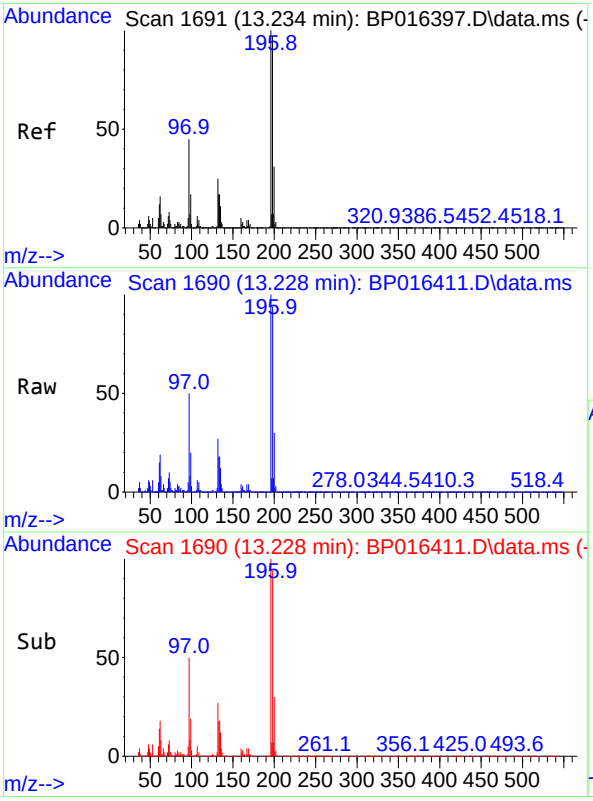
Tgt Ion:196 Resp: 100339

Ion	Ratio	Lower	Upper
196	100		
198	95.3	77.0	115.4
200	30.8	24.5	36.7



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

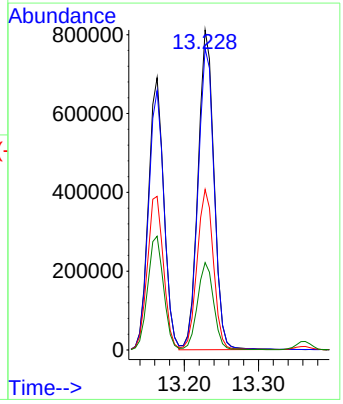
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

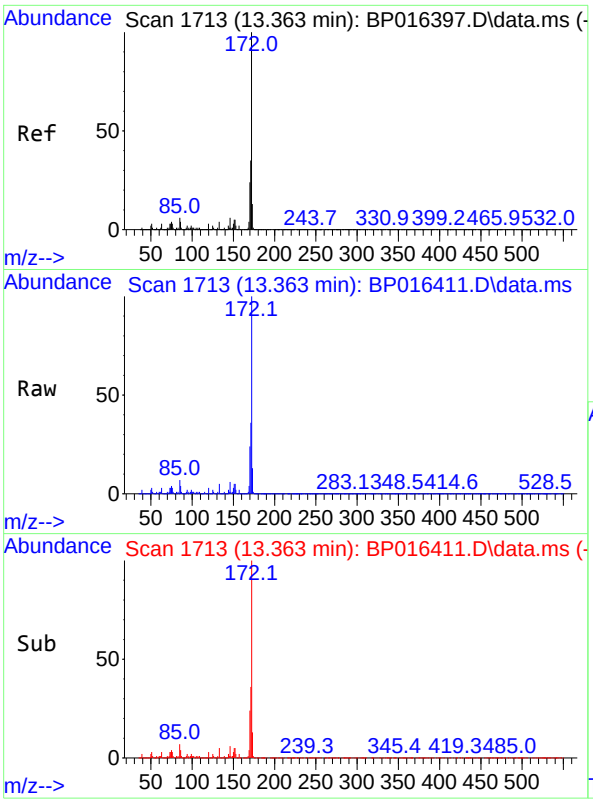


#44
2,4,5-Trichlorophenol
Concen: 40.954 ng
RT: 13.228 min Scan# 1690
Delta R.T. -0.006 min
Lab File: BP016411.D
Acq: 28 Jul 2023 08:03

Tgt Ion:196 Resp: 1209386

Ion	Ratio	Lower	Upper
196	100		
198	94.2	77.3	115.9
97	50.2	36.2	54.4
132	27.3	20.2	30.4

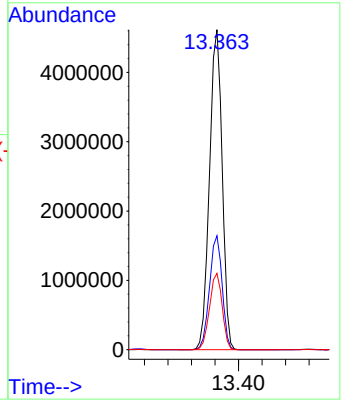




#45
2-Fluorobiphenyl
Concen: 79.527 ng
RT: 13.363 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP016411.D
Acq: 28 Jul 2023 08:03

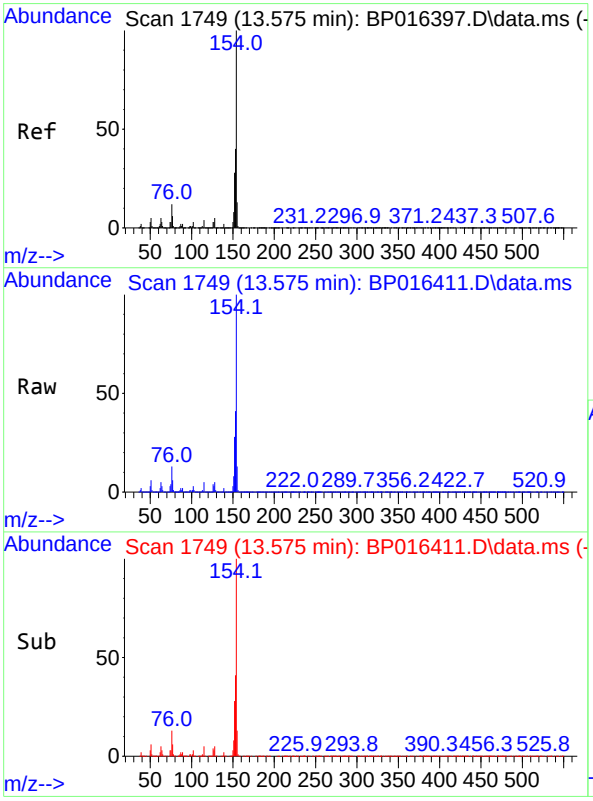
Tgt Ion:172 Resp: 692435

Ion	Ratio	Lower	Upper
172	100		
171	35.6	28.2	42.2
170	23.8	19.1	28.7



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

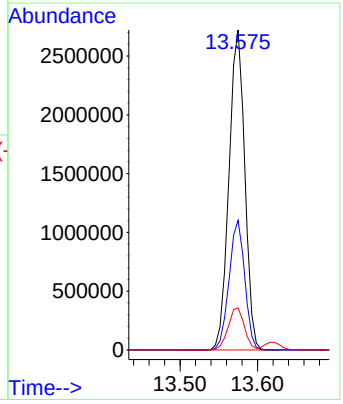
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

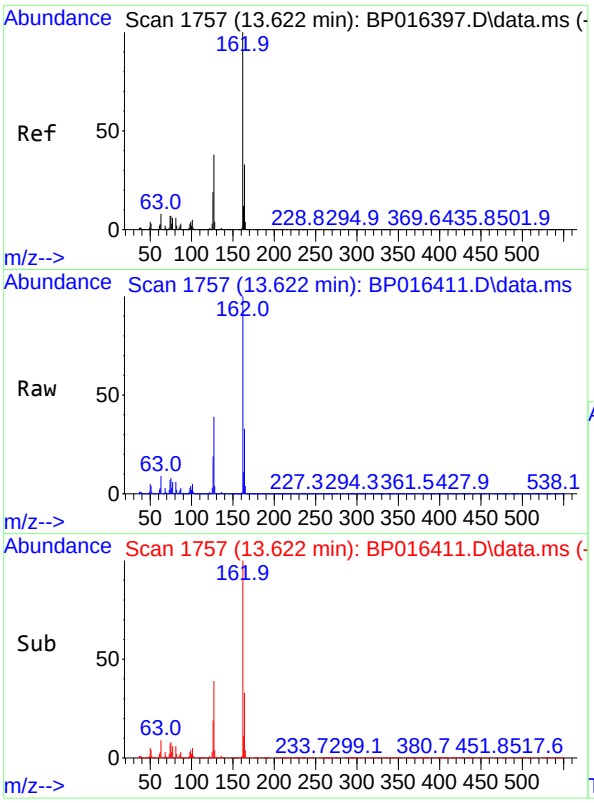


#46
1,1'-Biphenyl
Concen: 40.688 ng
RT: 13.575 min Scan# 1749
Delta R.T. 0.000 min
Lab File: BP016411.D
Acq: 28 Jul 2023 08:03

Tgt Ion:154 Resp: 3871630

Ion	Ratio	Lower	Upper
154	100		
153	40.5	20.1	60.1
76	13.2	0.0	32.5

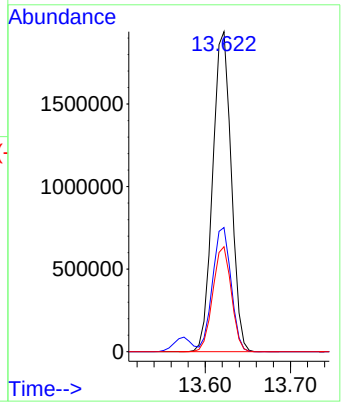




#47
2-Chloronaphthalene
Concen: 40.730 ng
RT: 13.622 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP016411.D
Acq: 28 Jul 2023 08:03

Tgt Ion:162 Resp: 292392

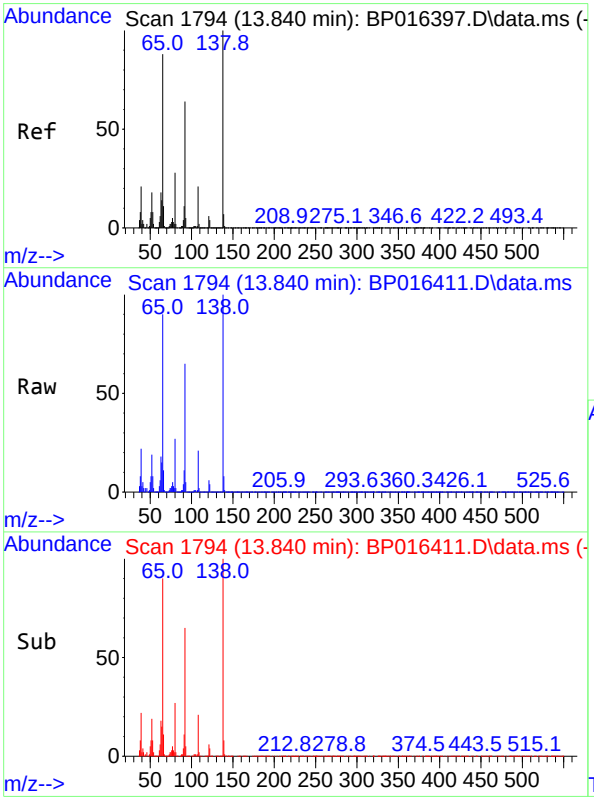
Ion	Ratio	Lower	Upper
162	100		
127	38.8	30.1	45.1
164	32.8	26.6	39.8



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

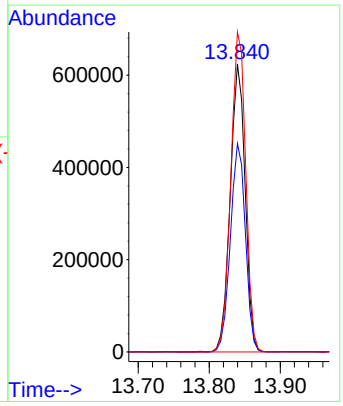
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

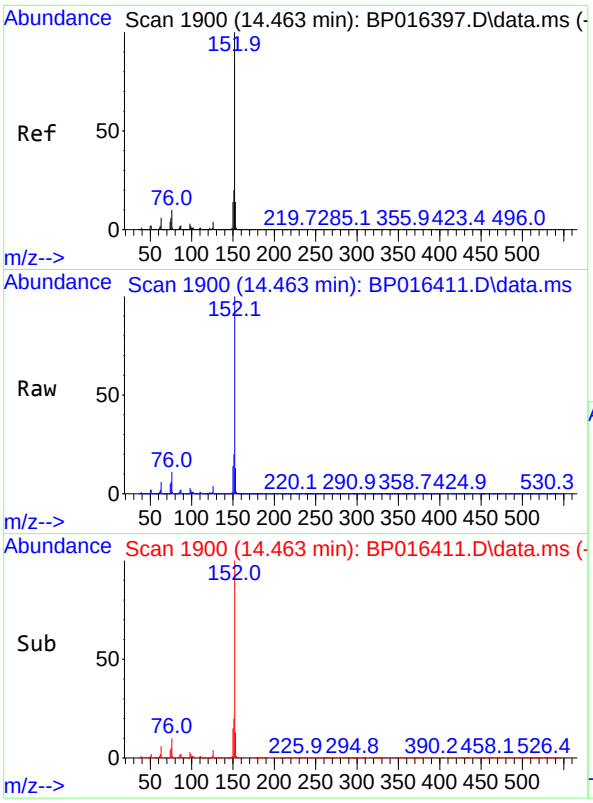


#48
2-Nitroaniline
Concen: 45.162 ng
RT: 13.840 min Scan# 1794
Delta R.T. 0.000 min
Lab File: BP016411.D
Acq: 28 Jul 2023 08:03

Tgt Ion: 65 Resp: 913891

Ion	Ratio	Lower	Upper
65	100		
92	72.5	58.2	87.4
138	111.2	91.3	136.9

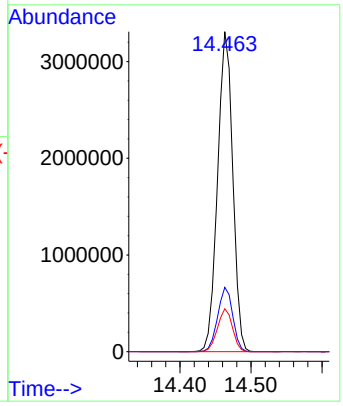




#49
Acenaphthylene
Concen: 41.045 ng
RT: 14.463 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP016411.D
Acq: 28 Jul 2023 08:03

Tgt Ion:152 Resp: 488900

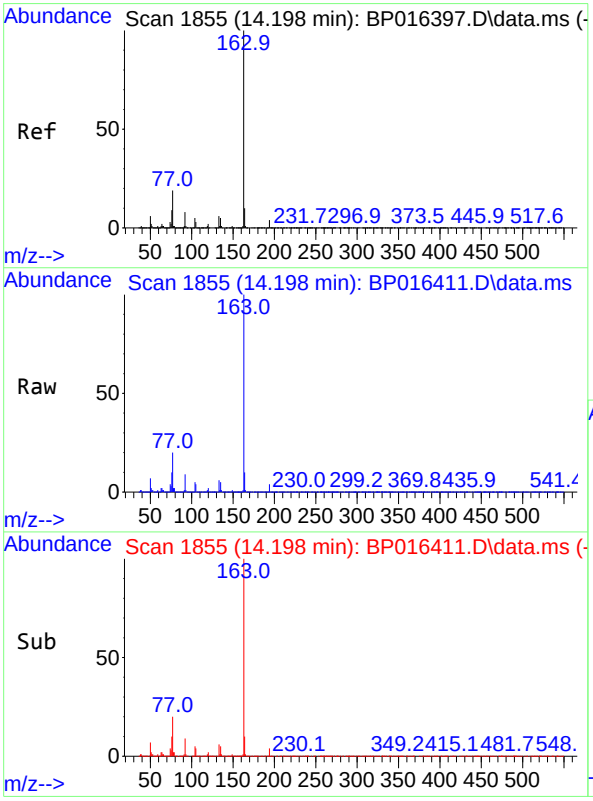
Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.2	24.4
153	13.4	10.8	16.2



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

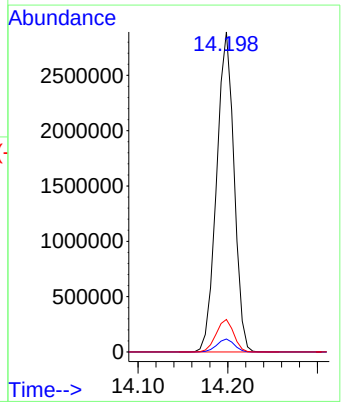
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

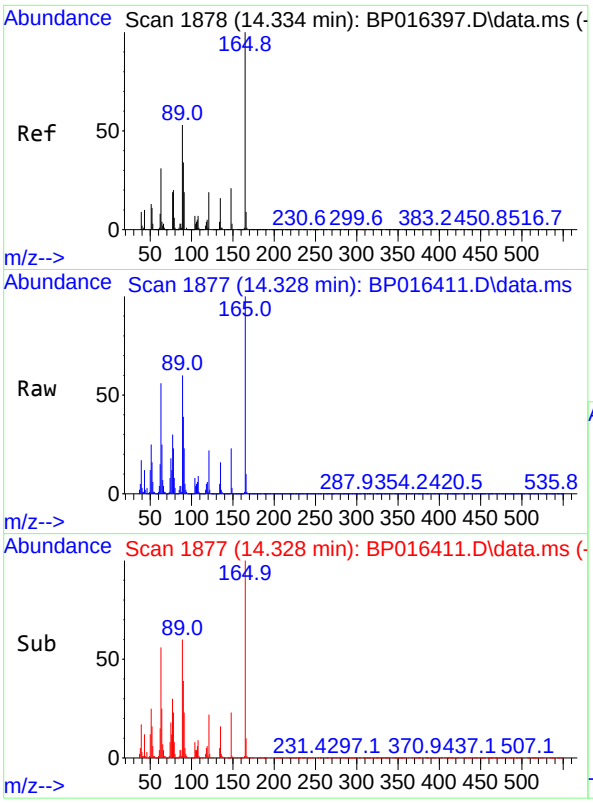


#50
Dimethylphthalate
Concen: 40.098 ng
RT: 14.198 min Scan# 1855
Delta R.T. 0.000 min
Lab File: BP016411.D
Acq: 28 Jul 2023 08:03

Tgt Ion:163 Resp: 3900561

Ion	Ratio	Lower	Upper
163	100		
194	4.0	3.4	5.2
164	10.2	8.2	12.2





#51
2,6-Dinitrotoluene
Concen: 41.955 ng
RT: 14.328 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP016411.D
Acq: 28 Jul 2023 08:03

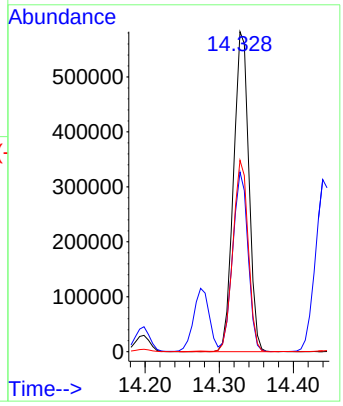
Tgt Ion:165 Resp: 83608

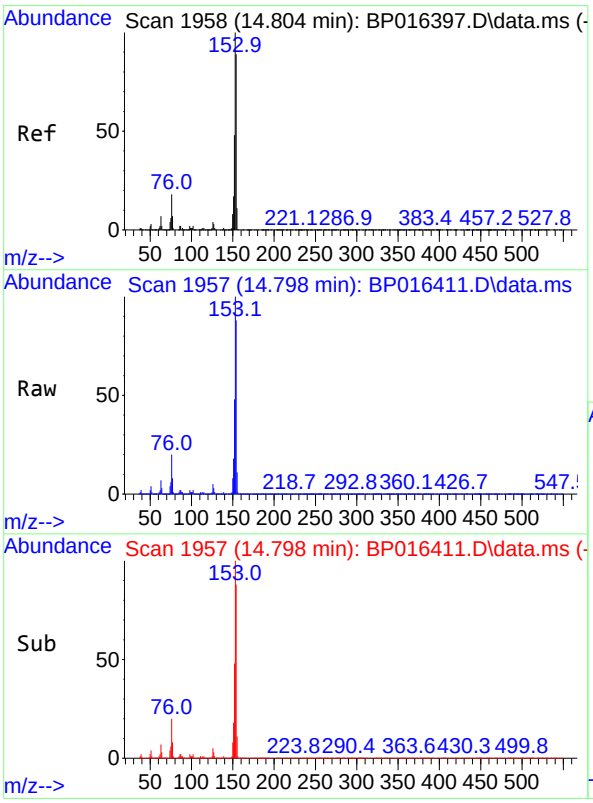
Ion	Ratio	Lower	Upper
165	100		
63	56.2	39.1	58.7
89	59.8	42.5	63.7

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

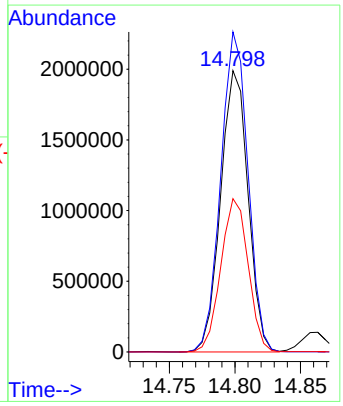


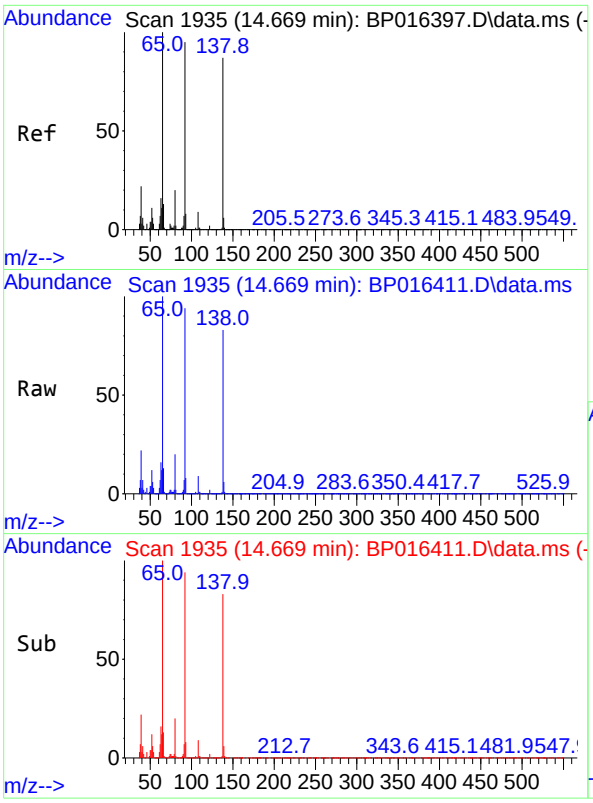


#52
Acenaphthene
Concen: 40.848 ng
RT: 14.798 min Scan# 1957
Delta R.T. -0.006 min
Lab File: BP016411.D
Acq: 28 Jul 2023 08:03

Tgt Ion:154 Resp: 2893264

Ion	Ratio	Lower	Upper
154	100		
153	113.8	90.4	135.6
152	54.5	43.4	65.0





#53
3-Nitroaniline
Concen: 42.831 ng
RT: 14.669 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP016411.D
Acq: 28 Jul 2023 08:03

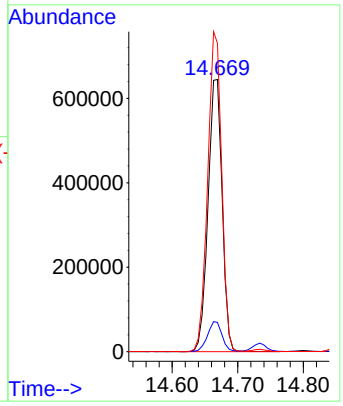
Tgt Ion:138 Resp: 96497

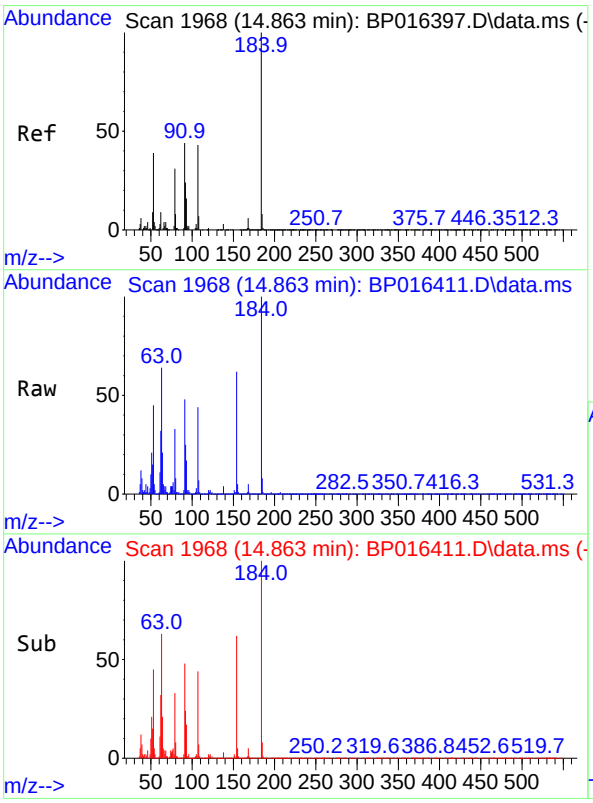
Ion	Ratio	Lower	Upper
138	100		
108	10.8	8.7	13.1
92	113.3	87.6	131.4

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

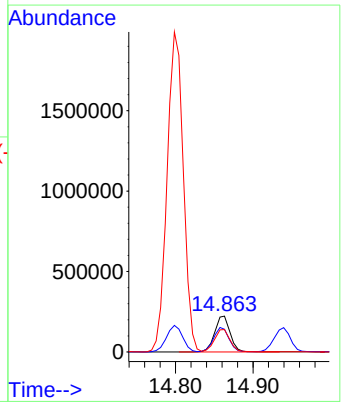


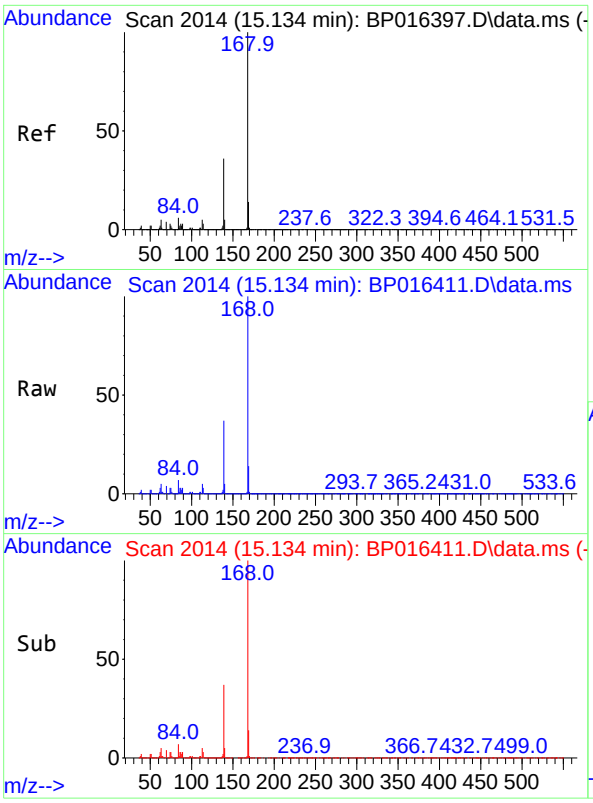


#54
2,4-Dinitrophenol
Concen: 37.884 ng
RT: 14.863 min Scan# 1968
Delta R.T. 0.000 min
Lab File: BP016411.D
Acq: 28 Jul 2023 08:03

Tgt Ion:184 Resp: 309545

Ion	Ratio	Lower	Upper
184	100		
63	63.6	48.2	72.4
154	62.4	49.6	74.4

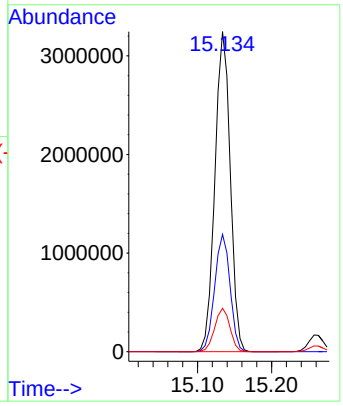




#55
Dibenzofuran
Concen: 40.100 ng
RT: 15.134 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP016411.D
Acq: 28 Jul 2023 08:03

Tgt Ion:168 Resp: 465823

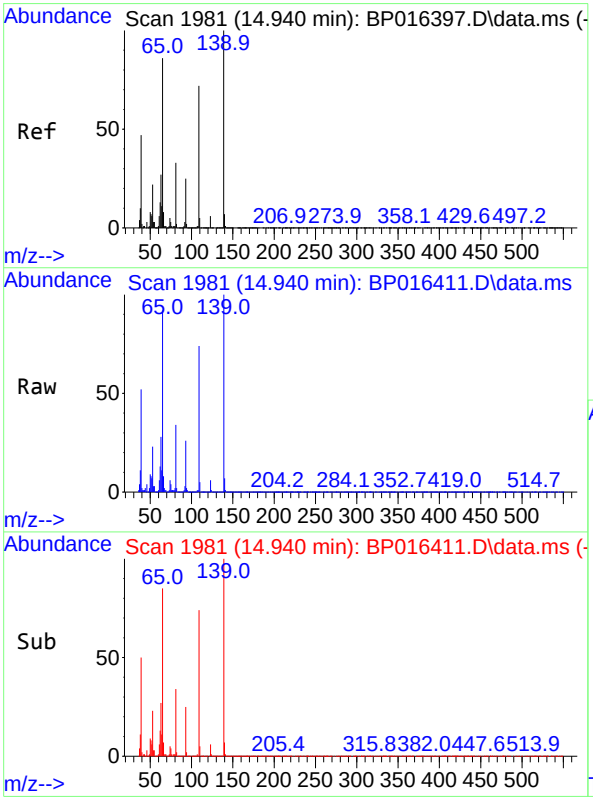
Ion	Ratio	Lower	Upper
168	100		
139	36.6	28.9	43.3
169	13.6	11.0	16.4



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

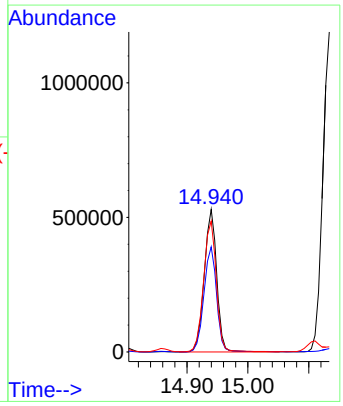
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

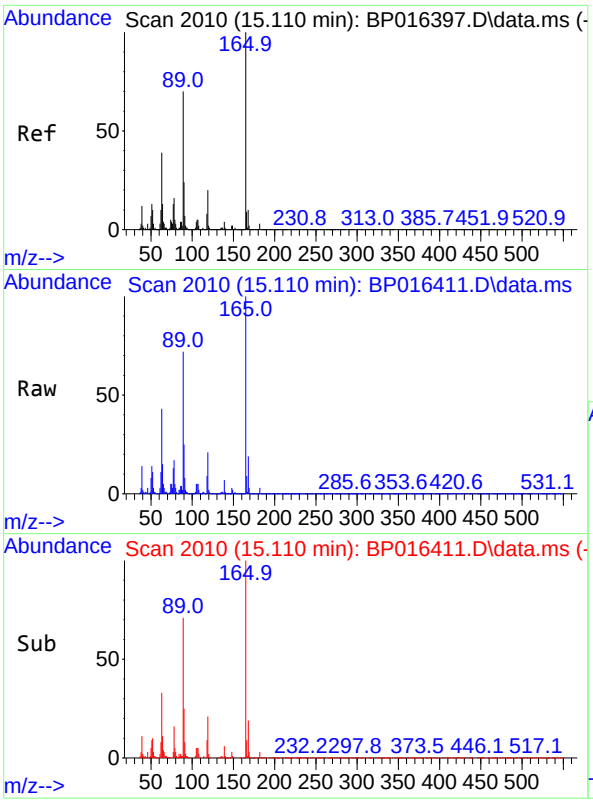


#56
4-Nitrophenol
Concen: 42.667 ng
RT: 14.940 min Scan# 1981
Delta R.T. 0.000 min
Lab File: BP016411.D
Acq: 28 Jul 2023 08:03

Tgt Ion:139 Resp: 752480

Ion	Ratio	Lower	Upper
139	100		
109	73.7	51.9	91.9
65	91.8	66.2	106.2

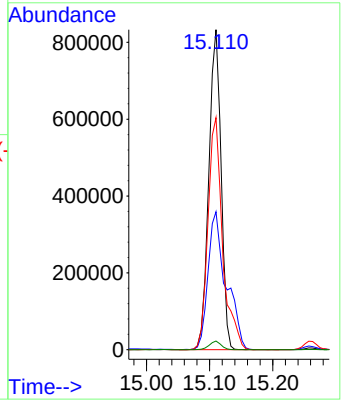




#57
2,4-Dinitrotoluene
Concen: 43.116 ng
RT: 15.110 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP016411.D
Acq: 28 Jul 2023 08:03

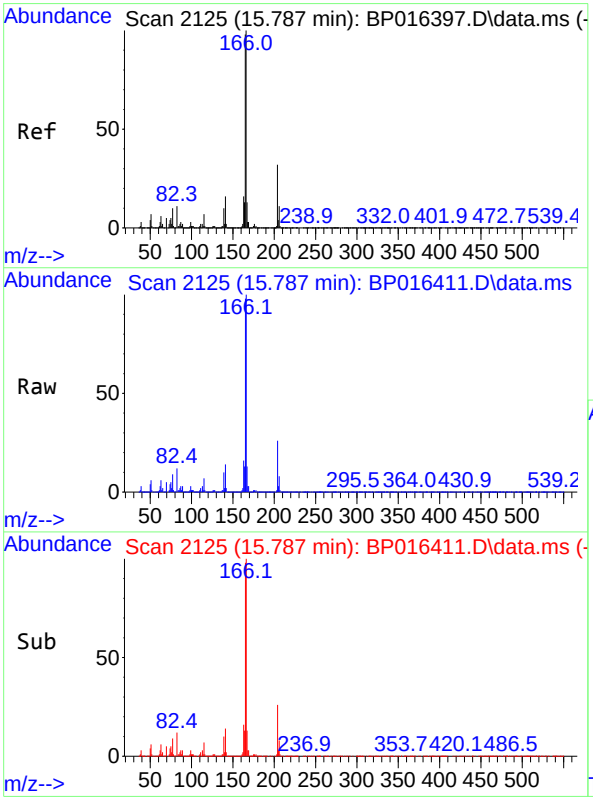
Tgt Ion:165 Resp: 111978

Ion	Ratio	Lower	Upper
165	100		
63	43.1	31.4	47.0
89	72.5	55.8	83.6
182	2.7	2.2	3.2



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

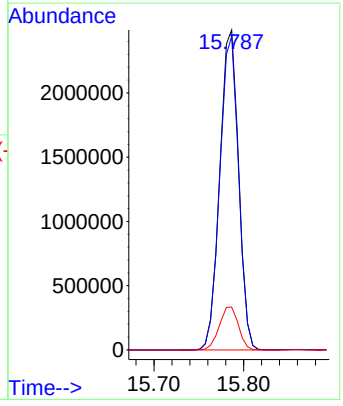
Manual Integrations APPROVED
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

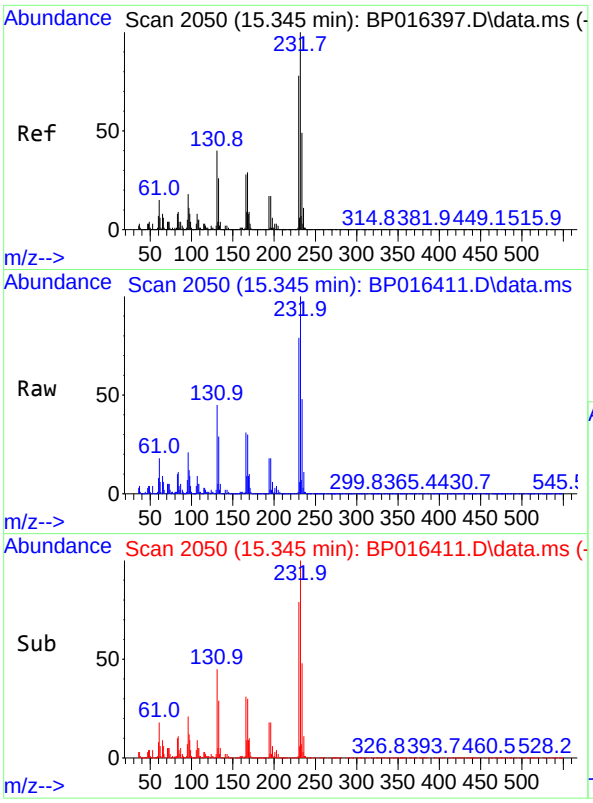


#58
Fluorene
Concen: 39.743 ng
RT: 15.787 min Scan# 2125
Delta R.T. 0.000 min
Lab File: BP016411.D
Acq: 28 Jul 2023 08:03

Tgt Ion:166 Resp: 3627101

Ion	Ratio	Lower	Upper
166	100		
165	98.0	78.0	117.0
167	13.4	10.6	16.0

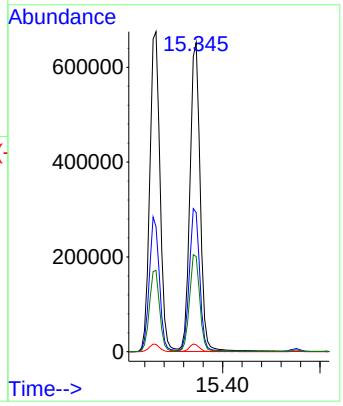




#59
2,3,4,6-Tetrachlorophenol
Concen: 39.091 ng
RT: 15.345 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP016411.D
Acq: 28 Jul 2023 08:03

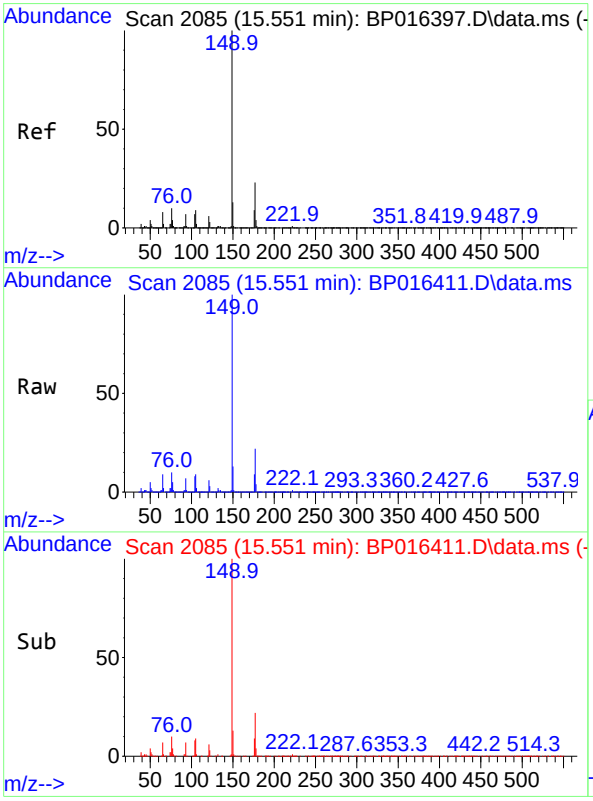
Tgt Ion:232 Resp: 94960

Ion	Ratio	Lower	Upper
232	100		
131	47.0	33.1	49.7
130	2.4	1.8	2.8
166	31.4	23.0	34.4



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

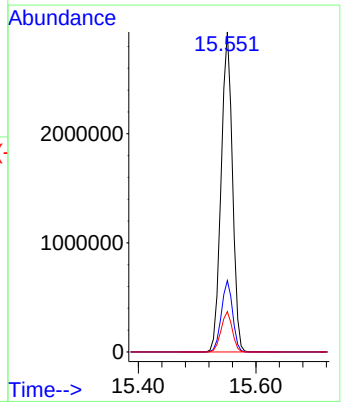
Manual Integrations APPROVED
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

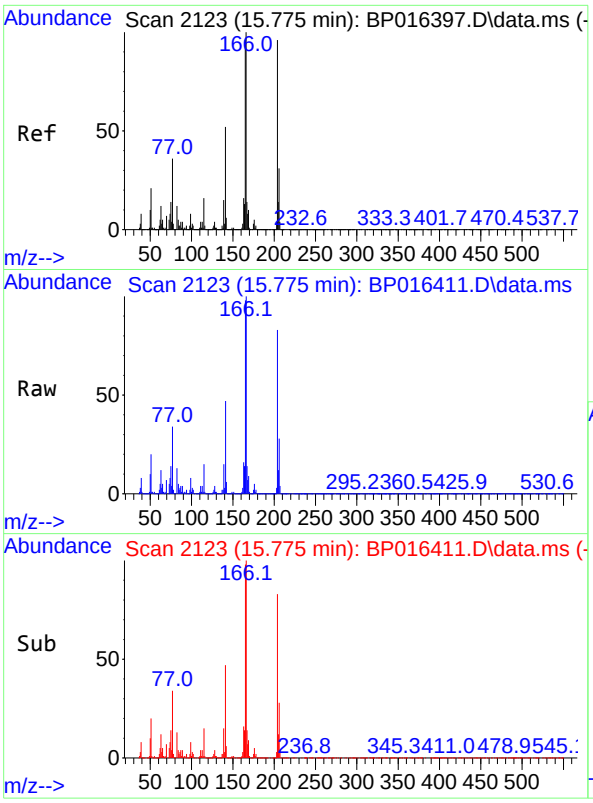


#60
Diethylphthalate
Concen: 40.448 ng
RT: 15.551 min Scan# 2085
Delta R.T. 0.000 min
Lab File: BP016411.D
Acq: 28 Jul 2023 08:03

Tgt Ion:149 Resp: 3910112

Ion	Ratio	Lower	Upper
149	100		
177	22.3	18.6	27.8
150	12.6	10.1	15.1

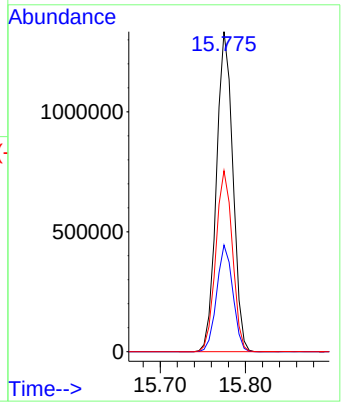




#61
4-Chlorophenyl-phenylether
Concen: 38.721 ng
RT: 15.775 min Scan# 21
Delta R.T. 0.000 min
Lab File: BP016411.D
Acq: 28 Jul 2023 08:03

Tgt Ion:204 Resp: 178326

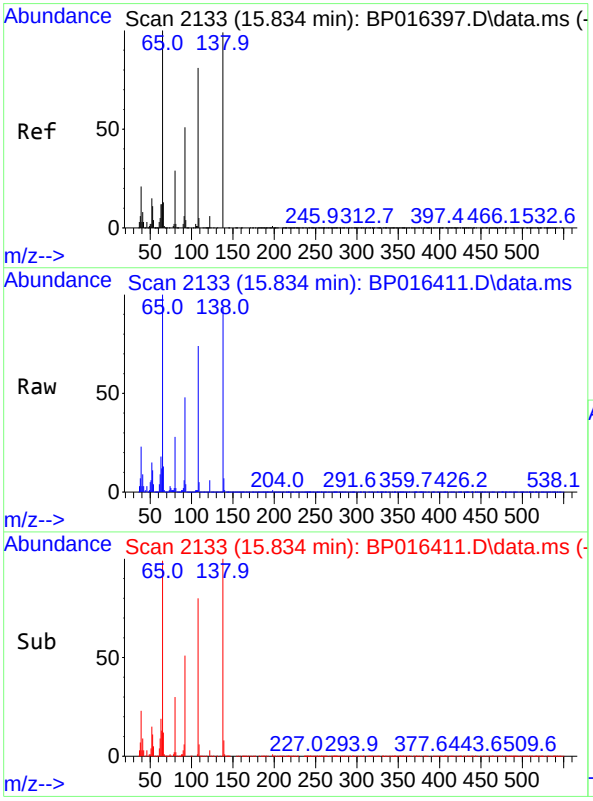
Ion	Ratio	Lower	Upper
204	100		
206	33.3	26.2	39.4
141	56.6	43.4	65.0



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

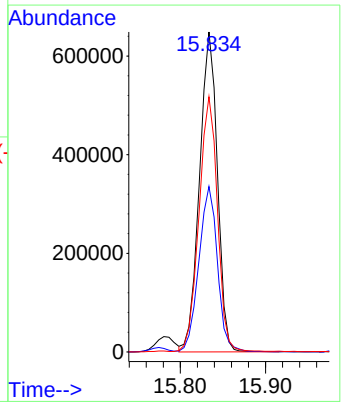
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

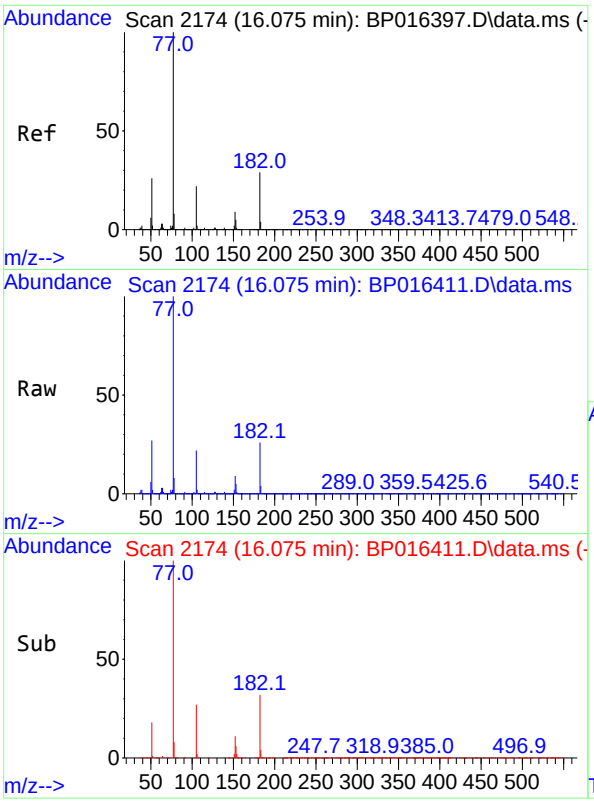


#62
4-Nitroaniline
Concen: 42.293 ng
RT: 15.834 min Scan# 2133
Delta R.T. 0.000 min
Lab File: BP016411.D
Acq: 28 Jul 2023 08:03

Tgt Ion:138 Resp: 945609

Ion	Ratio	Lower	Upper
138	100		
92	51.7	30.3	70.3
108	79.7	60.1	100.1

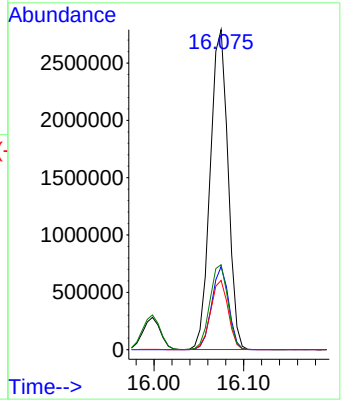




#63
Azobenzene
Concen: 42.108 ng
RT: 16.075 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP016411.D
Acq: 28 Jul 2023 08:03

Tgt Ion: 77 Resp: 384357

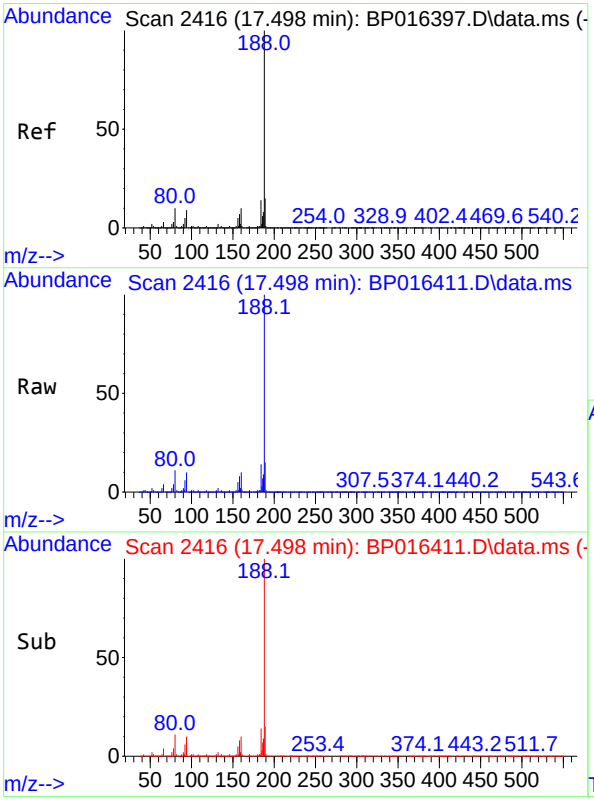
Ion	Ratio	Lower	Upper
77	100		
182	26.0	8.6	48.6
105	21.7	2.4	42.4
51	26.5	6.2	46.2



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

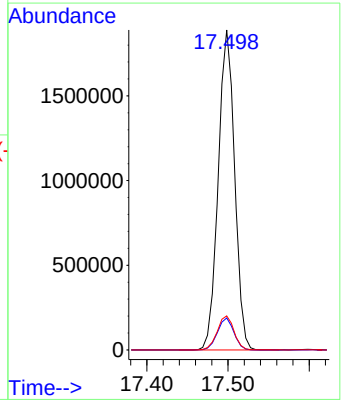
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

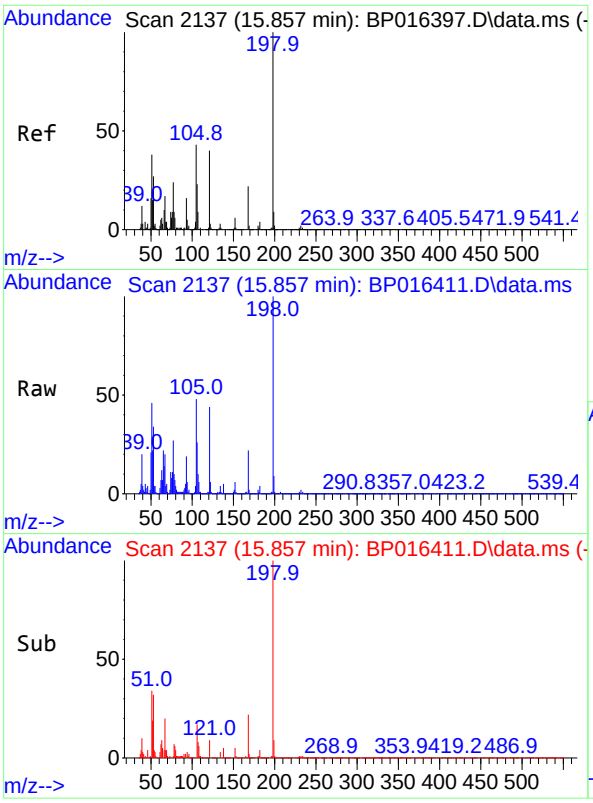


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.498 min Scan# 2416
Delta R.T. 0.000 min
Lab File: BP016411.D
Acq: 28 Jul 2023 08:03

Tgt Ion:188 Resp: 2658098

Ion	Ratio	Lower	Upper
188	100		
94	10.0	7.4	11.0
80	10.6	7.8	11.8

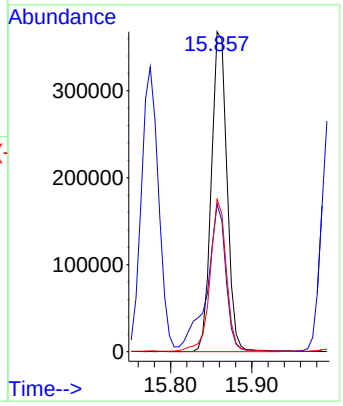




#65
4,6-Dinitro-2-methylphenol
Concen: 40.612 ng
RT: 15.857 min Scan# 21
Delta R.T. 0.000 min
Lab File: BP016411.D
Acq: 28 Jul 2023 08:03

Tgt Ion:198 Resp: 49156

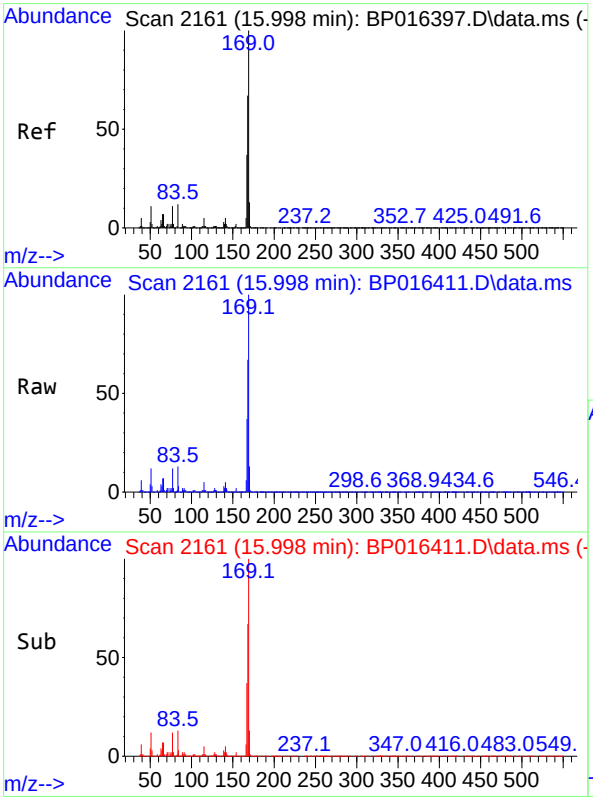
Ion	Ratio	Lower	Upper
198	100		
51	46.1	20.1	60.1
105	47.6	23.1	63.1



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

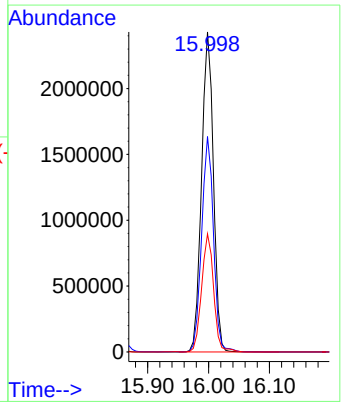
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

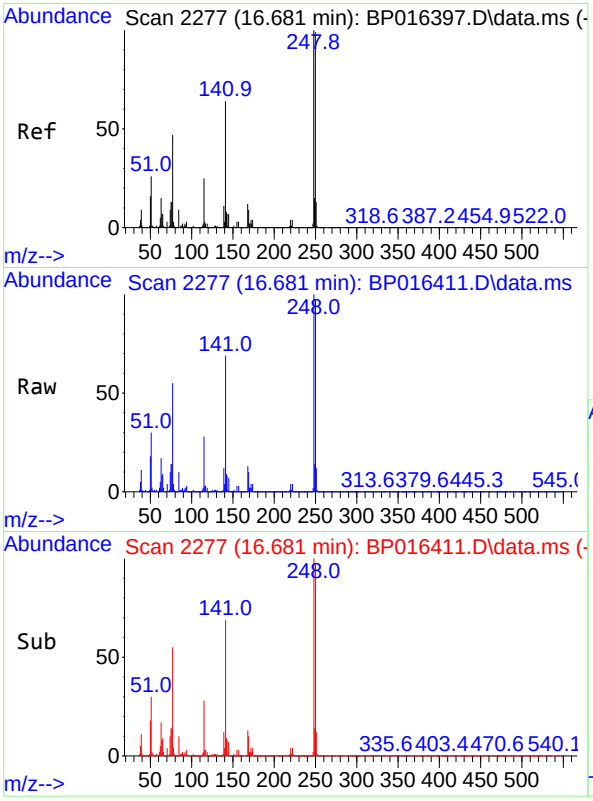


#66
n-Nitrosodiphenylamine
Concen: 41.810 ng
RT: 15.998 min Scan# 2161
Delta R.T. 0.000 min
Lab File: BP016411.D
Acq: 28 Jul 2023 08:03

Tgt Ion:169 Resp: 3275240

Ion	Ratio	Lower	Upper
169	100		
168	67.3	53.6	80.4
167	36.9	29.2	43.8

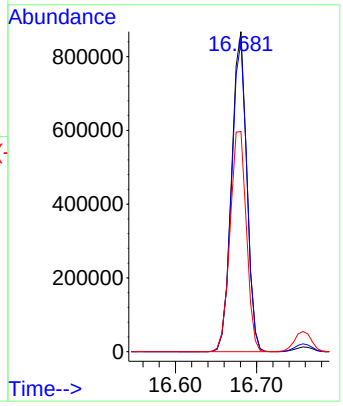




#67
4-Bromophenyl-phenylether
Concen: 39.912 ng
RT: 16.681 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP016411.D
Acq: 28 Jul 2023 08:03

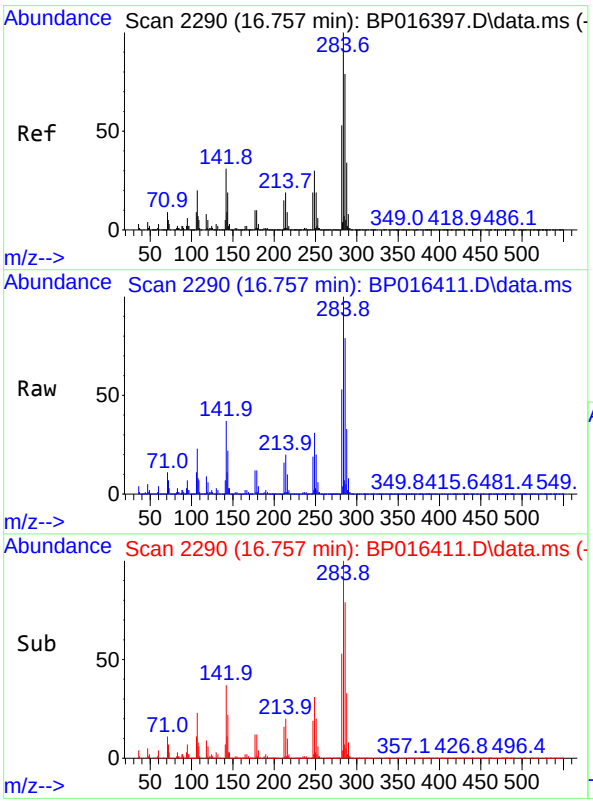
Tgt Ion:248 Resp: 112335

Ion	Ratio	Lower	Upper
248	100		
250	97.0	78.9	118.3
141	68.8	51.0	76.4



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

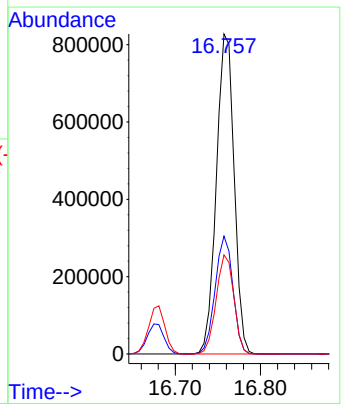
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

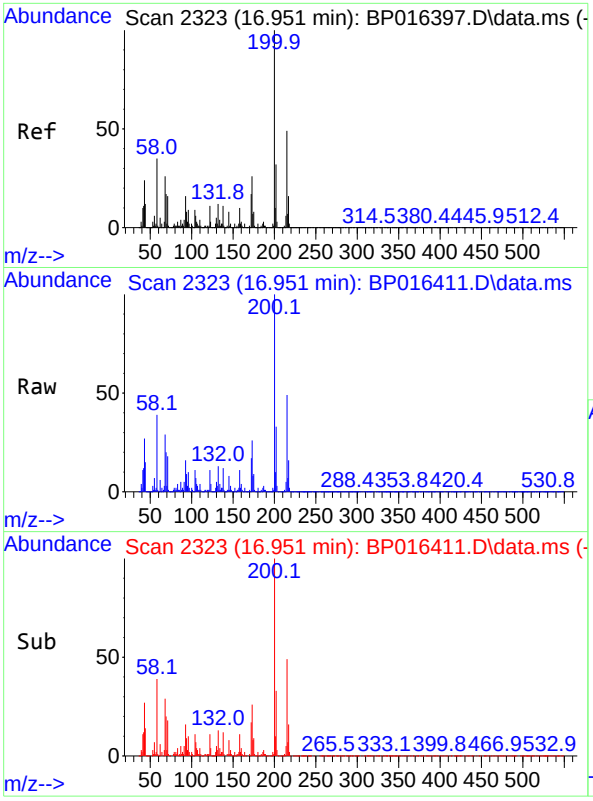


#68
Hexachlorobenzene
Concen: 38.299 ng
RT: 16.757 min Scan# 2290
Delta R.T. 0.000 min
Lab File: BP016411.D
Acq: 28 Jul 2023 08:03

Tgt Ion:284 Resp: 1202125

Ion	Ratio	Lower	Upper
284	100		
142	36.8	25.2	37.8
249	30.9	26.0	39.0

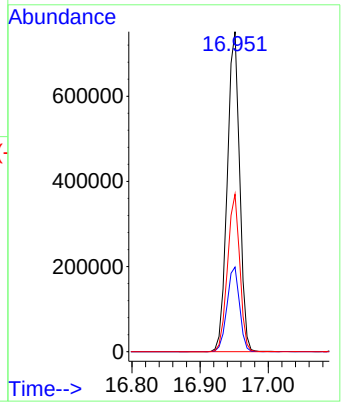




#69
Atrazine
Concen: 40.797 ng
RT: 16.951 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP016411.D
Acq: 28 Jul 2023 08:03

Tgt Ion:200 Resp: 95044

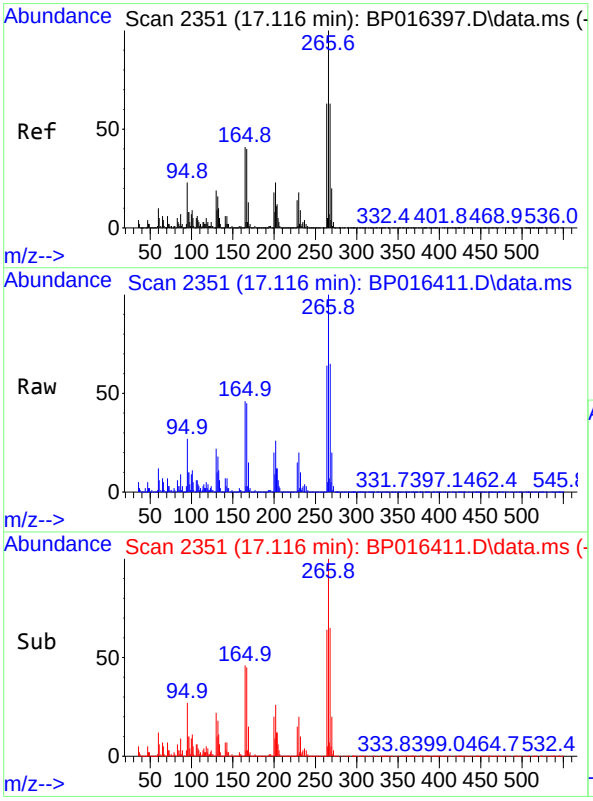
Ion	Ratio	Lower	Upper
200	100		
173	26.4	5.8	45.8
215	49.2	29.2	69.2



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

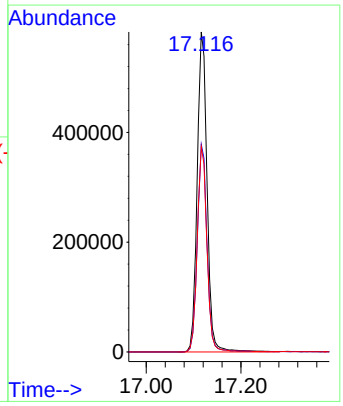
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

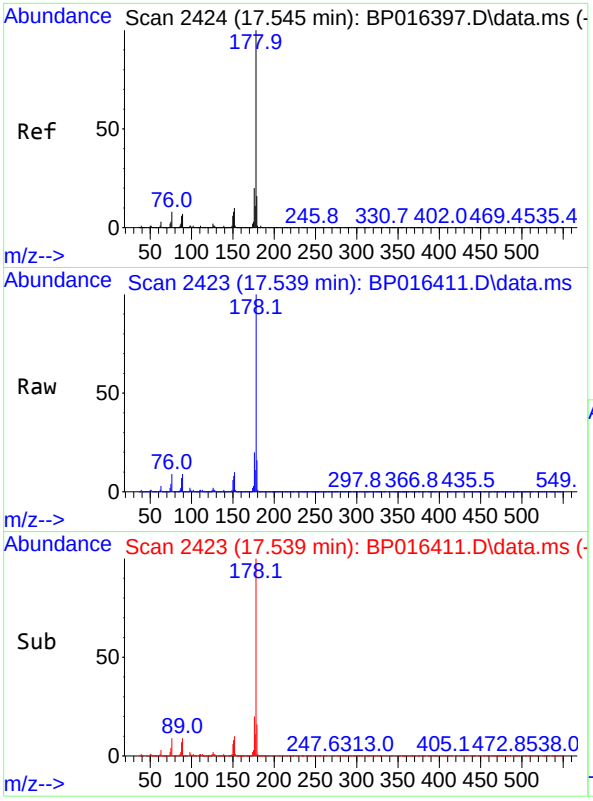


#70
Pentachlorophenol
Concen: 38.880 ng
RT: 17.116 min Scan# 2351
Delta R.T. -0.000 min
Lab File: BP016411.D
Acq: 28 Jul 2023 08:03

Tgt Ion:266 Resp: 844509

Ion	Ratio	Lower	Upper
266	100		
268	64.9	53.9	80.9
264	64.1	54.9	82.3

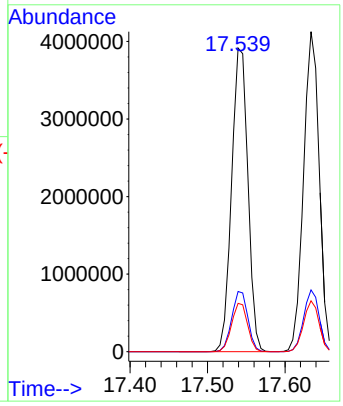




#71
Phenanthrene
Concen: 40.516 ng
RT: 17.539 min Scan# 24
Delta R.T. -0.006 min
Lab File: BP016411.D
Acq: 28 Jul 2023 08:03

Tgt Ion:178 Resp: 571859

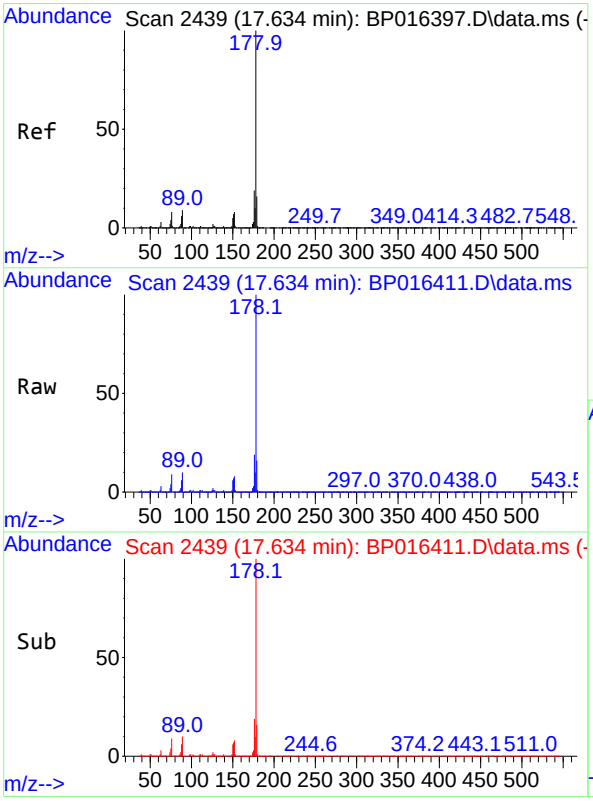
Ion	Ratio	Lower	Upper
178	100		
176	19.8	15.8	23.8
179	15.9	12.4	18.6



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

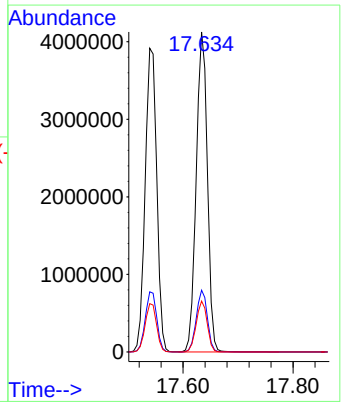
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

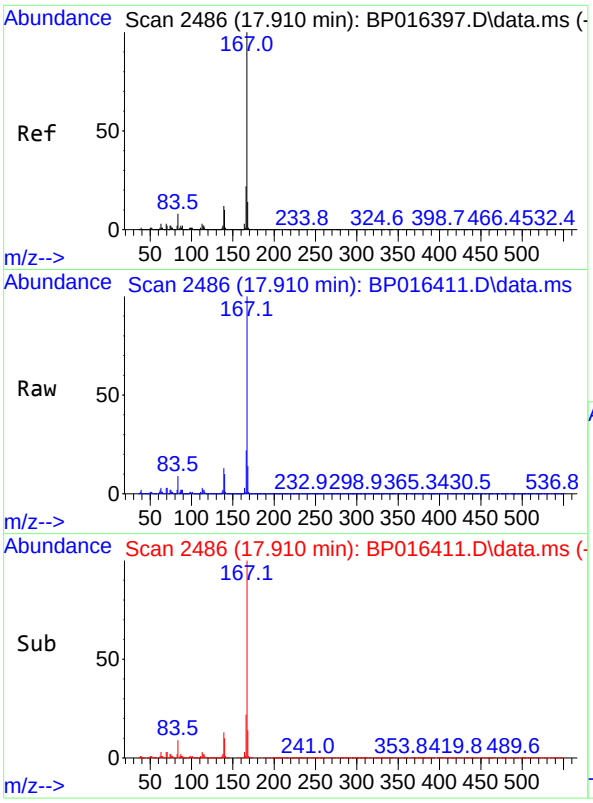


#72
Anthracene
Concen: 41.041 ng
RT: 17.634 min Scan# 2439
Delta R.T. 0.000 min
Lab File: BP016411.D
Acq: 28 Jul 2023 08:03

Tgt Ion:178 Resp: 5824715

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.2	22.8
179	15.9	12.6	19.0

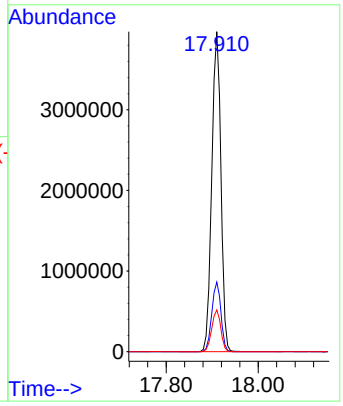




#73
Carbazole
Concen: 40.993 ng
RT: 17.910 min Scan# 24
Delta R.T. 0.000 min
Lab File: BP016411.D
Acq: 28 Jul 2023 08:03

Tgt Ion:167 Resp: 545463

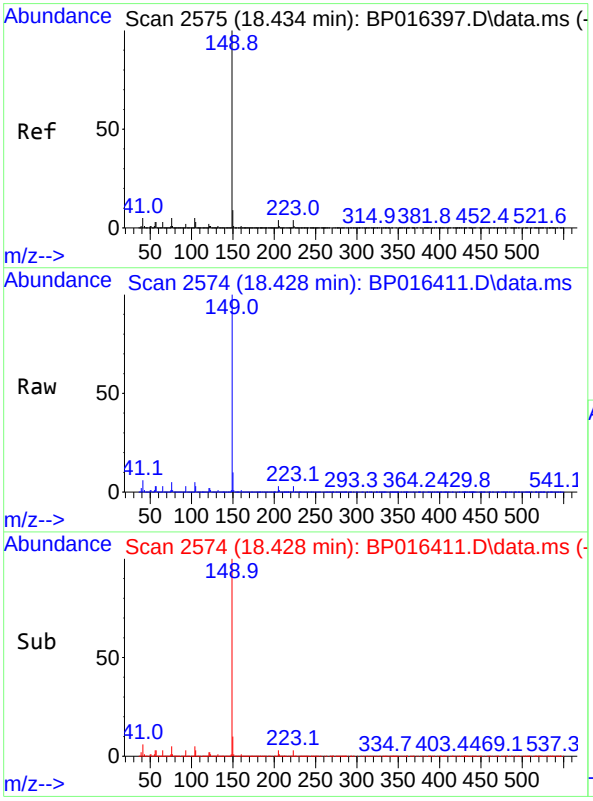
Ion	Ratio	Lower	Upper
167	100		
166	21.8	17.2	25.8
139	13.1	9.9	14.9



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

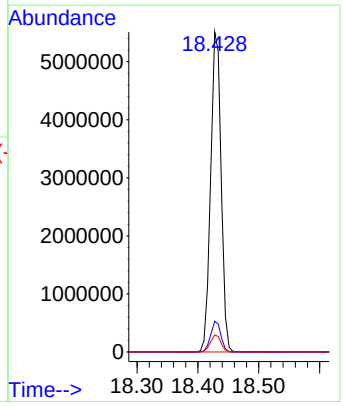
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

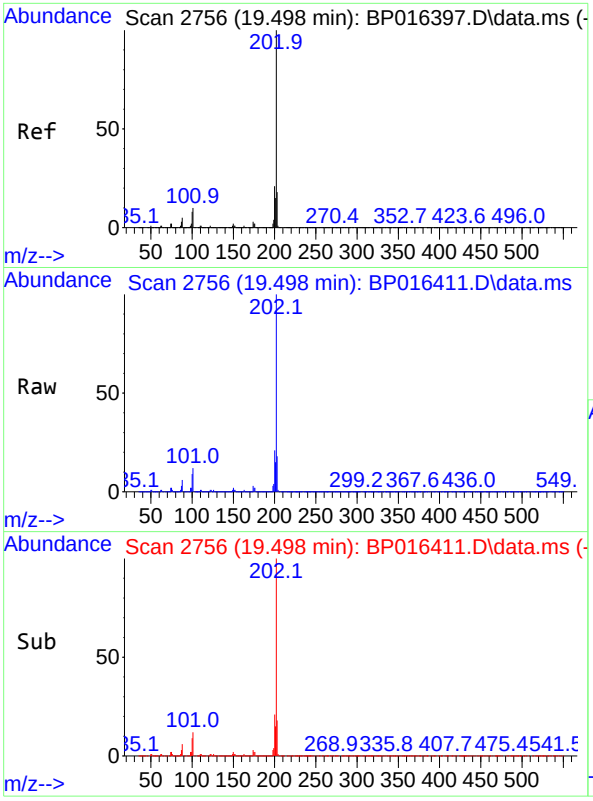


#74
Di-n-butylphthalate
Concen: 42.757 ng
RT: 18.428 min Scan# 2574
Delta R.T. -0.006 min
Lab File: BP016411.D
Acq: 28 Jul 2023 08:03

Tgt Ion:149 Resp: 6582181

Ion	Ratio	Lower	Upper
149	100		
150	9.6	7.4	11.2
104	5.3	3.8	5.8

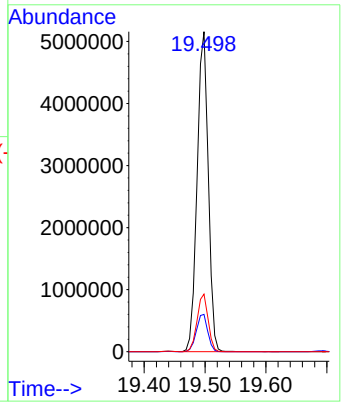




#75
Fluoranthene
Concen: 39.550 ng
RT: 19.498 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP016411.D
Acq: 28 Jul 2023 08:03

Tgt Ion:202 Resp: 654294

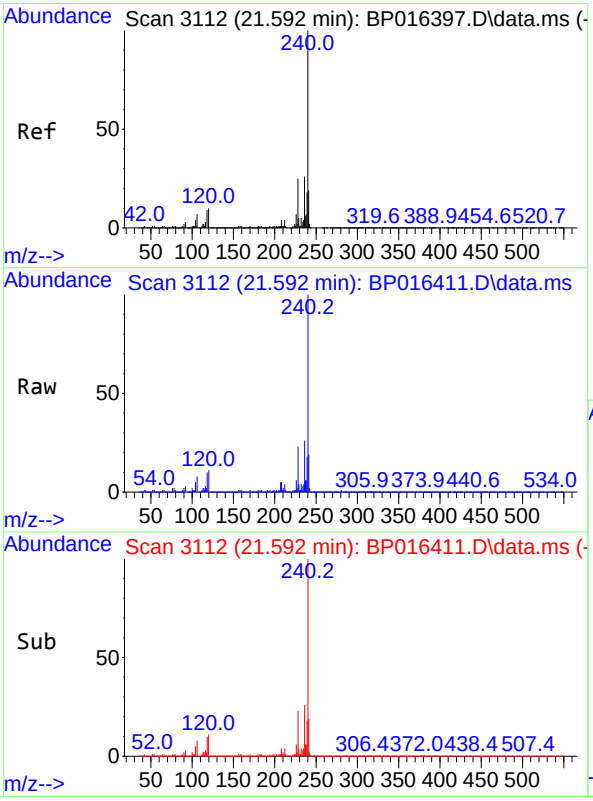
Ion	Ratio	Lower	Upper
202	100		
101	11.7	0.0	30.2
203	18.0	0.0	37.9



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

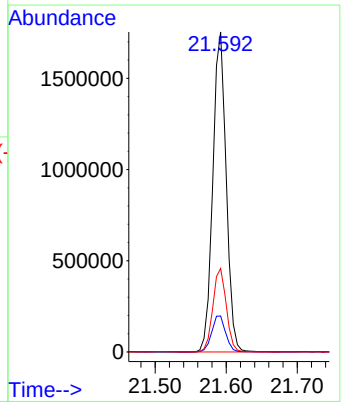
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

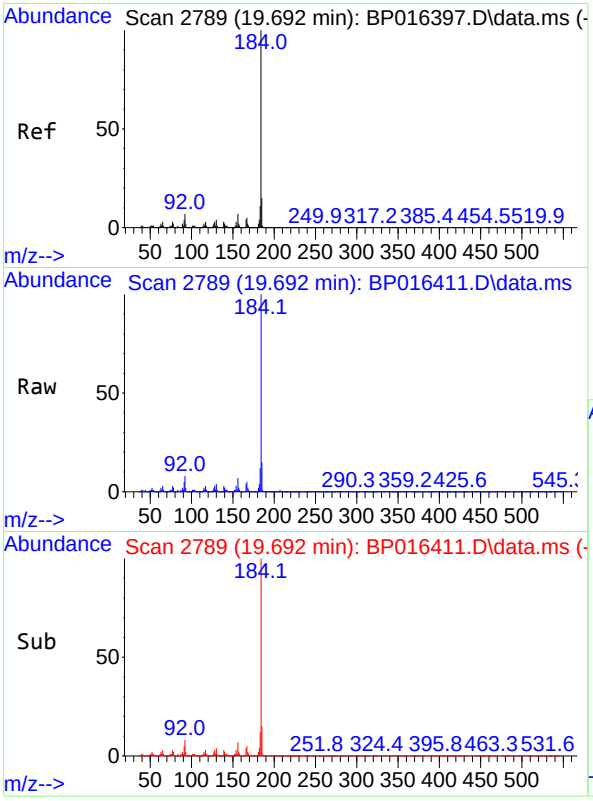


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.592 min Scan# 3112
Delta R.T. 0.000 min
Lab File: BP016411.D
Acq: 28 Jul 2023 08:03

Tgt Ion:240 Resp: 2292477

Ion	Ratio	Lower	Upper
240	100		
120	11.2	7.9	11.9
236	26.1	21.1	31.7

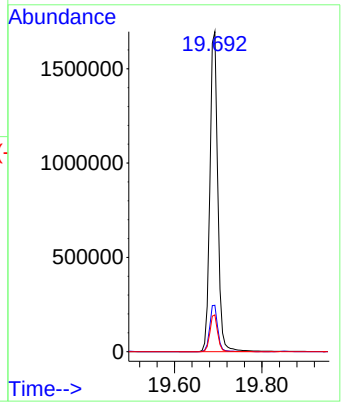




#77
Benzidine
Concen: 53.696 ng
RT: 19.692 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP016411.D
Acq: 28 Jul 2023 08:03

Tgt Ion:184 Resp: 213423

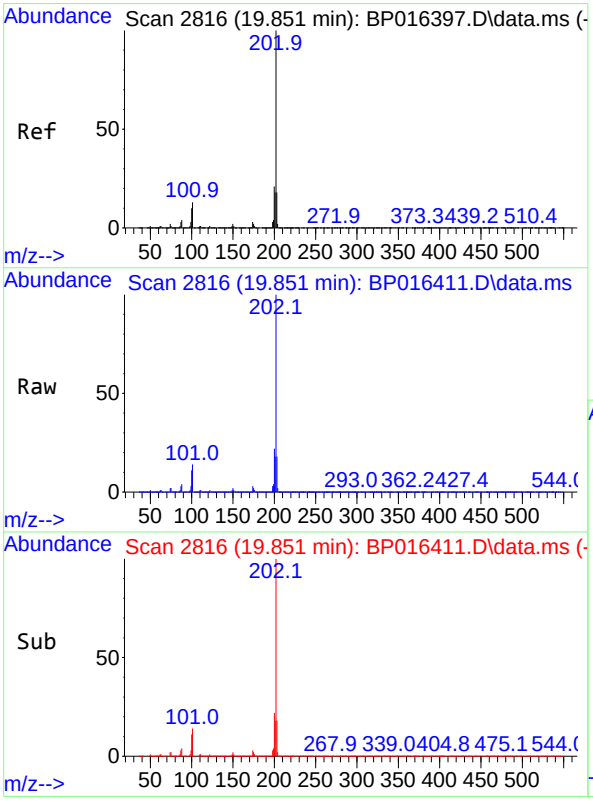
Ion	Ratio	Lower	Upper
184	100		
185	14.5	12.0	18.0
183	11.5	9.2	13.8



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

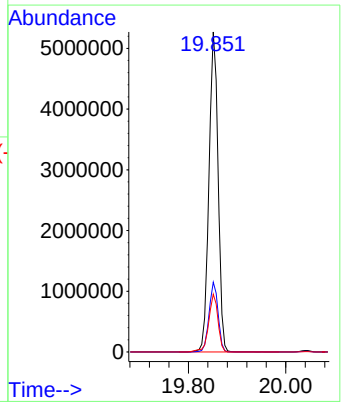
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

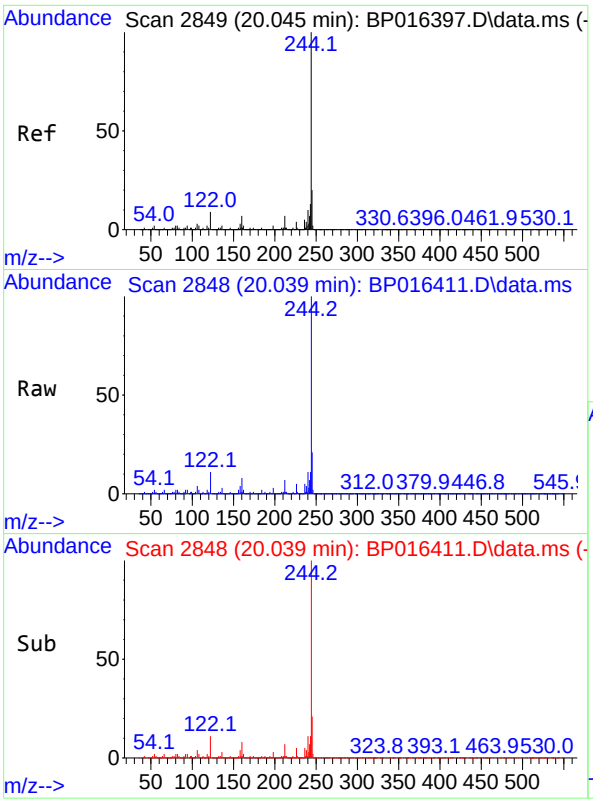


#78
Pyrene
Concen: 44.366 ng
RT: 19.851 min Scan# 2816
Delta R.T. 0.000 min
Lab File: BP016411.D
Acq: 28 Jul 2023 08:03

Tgt Ion:202 Resp: 6818096

Ion	Ratio	Lower	Upper
202	100		
200	21.8	17.1	25.7
203	18.1	14.4	21.6

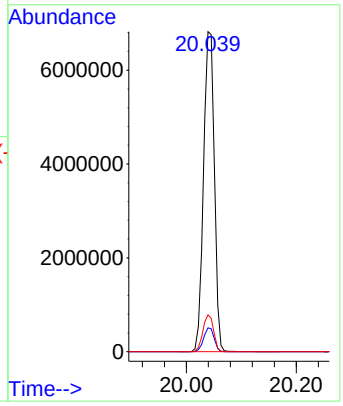




#79
Terphenyl-d14
Concen: 85.607 ng
RT: 20.039 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP016411.D
Acq: 28 Jul 2023 08:03

Tgt Ion:244 Resp: 929040

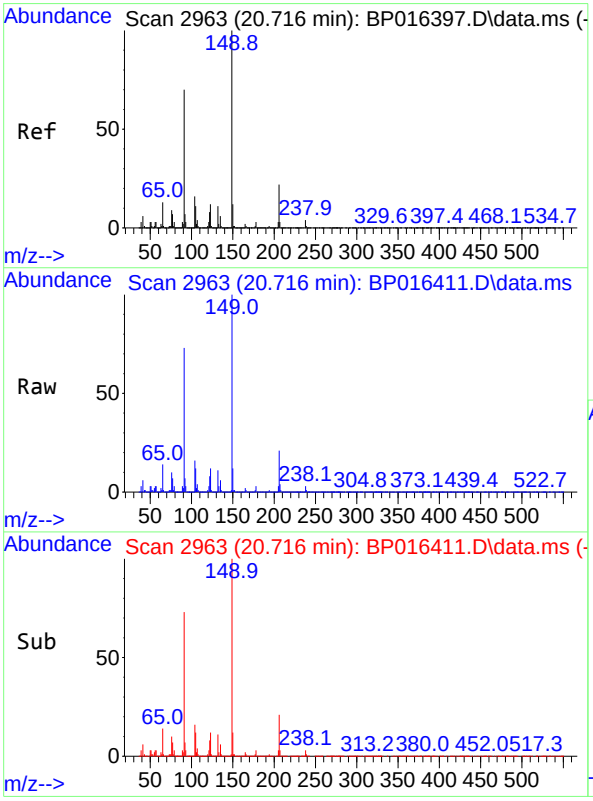
Ion	Ratio	Lower	Upper
244	100		
212	7.4	5.6	8.4
122	11.5	7.4	11.2



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

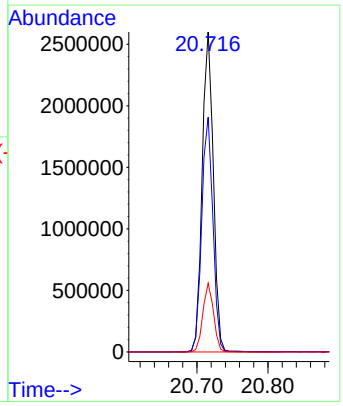
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

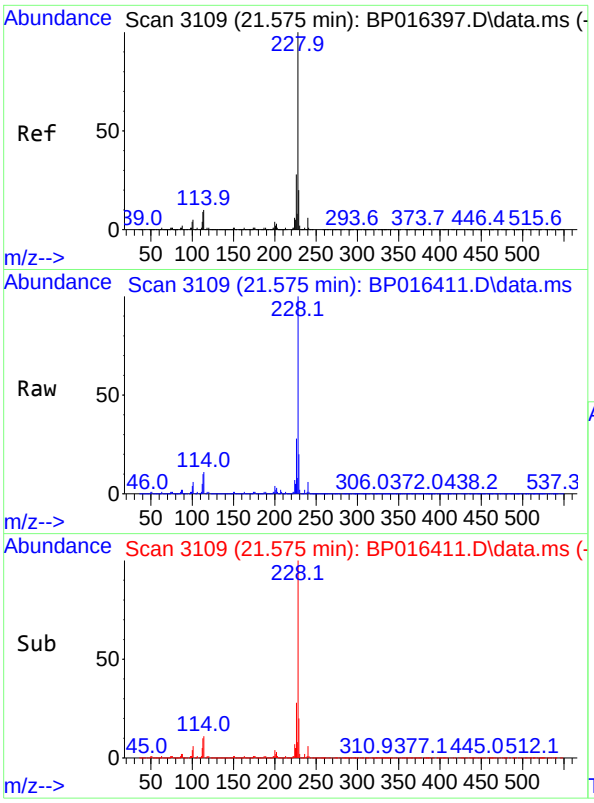


#80
Butylbenzylphthalate
Concen: 46.991 ng
RT: 20.716 min Scan# 2963
Delta R.T. 0.000 min
Lab File: BP016411.D
Acq: 28 Jul 2023 08:03

Tgt Ion:149 Resp: 2836989

Ion	Ratio	Lower	Upper
149	100		
91	73.4	56.1	84.1
206	21.5	17.8	26.6

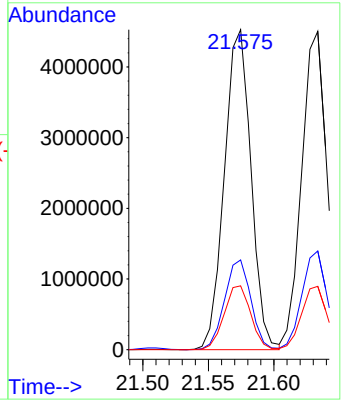




#81
Benzo(a)anthracene
Concen: 41.564 ng
RT: 21.575 min Scan# 3
Delta R.T. 0.000 min
Lab File: BP016411.D
Acq: 28 Jul 2023 08:03

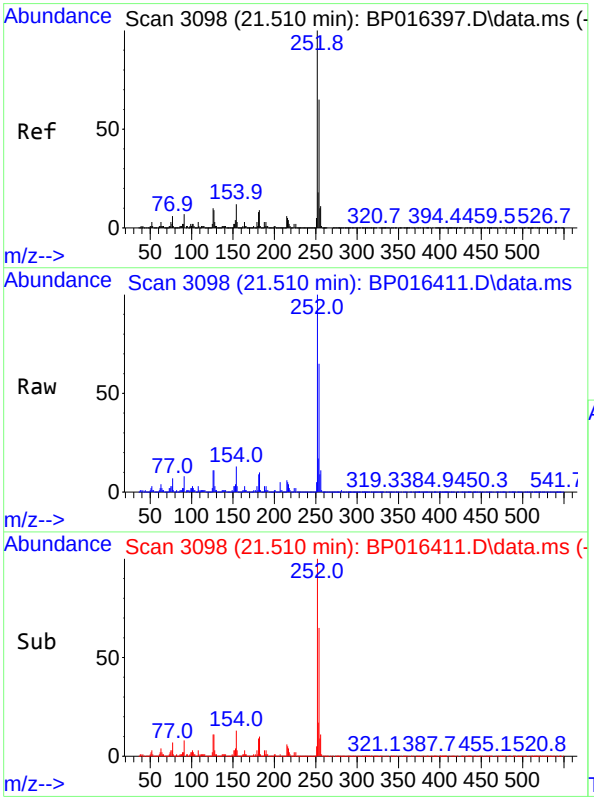
Tgt Ion:228 Resp: 639322

Ion	Ratio	Lower	Upper
228	100		
226	28.1	22.4	33.6
229	20.0	16.2	24.4



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

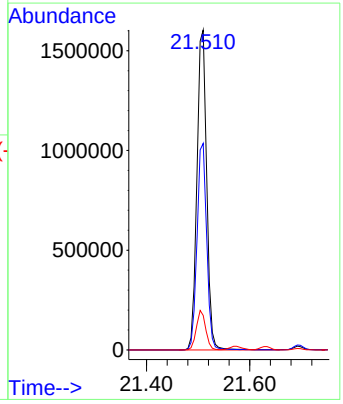
Manual Integrations APPROVED
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

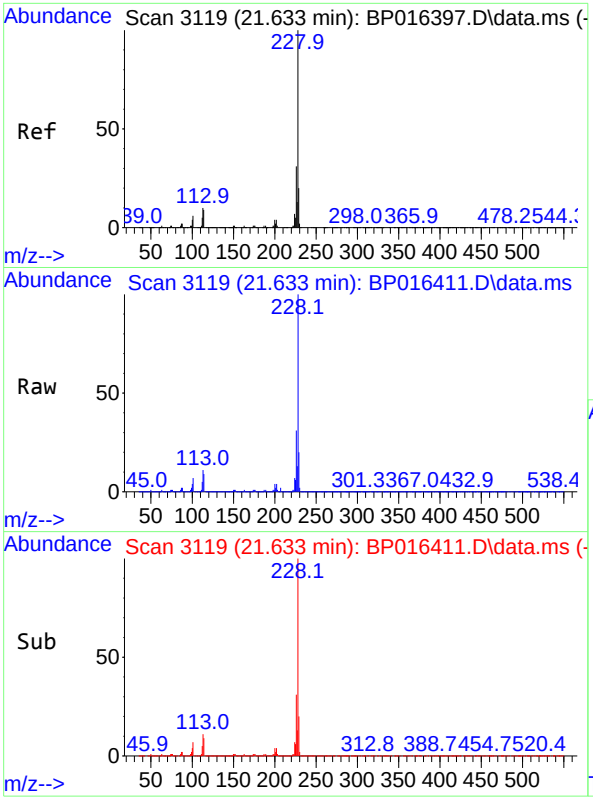


#82
3,3'-Dichlorobenzidine
Concen: 41.576 ng
RT: 21.510 min Scan# 3098
Delta R.T. 0.000 min
Lab File: BP016411.D
Acq: 28 Jul 2023 08:03

Tgt Ion:252 Resp: 2099266

Ion	Ratio	Lower	Upper
252	100		
254	64.6	52.2	78.2
126	10.8	7.8	11.6

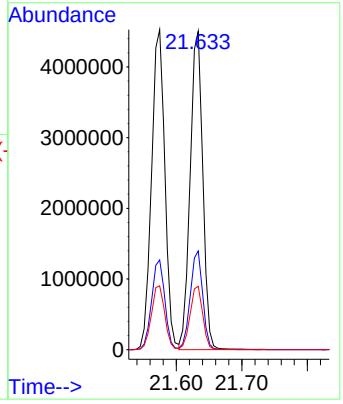




#83
Chrysene
Concen: 40.963 ng
RT: 21.633 min Scan# 3
Delta R.T. 0.000 min
Lab File: BP016411.D
Acq: 28 Jul 2023 08:03

Tgt Ion:228 Resp: 601669

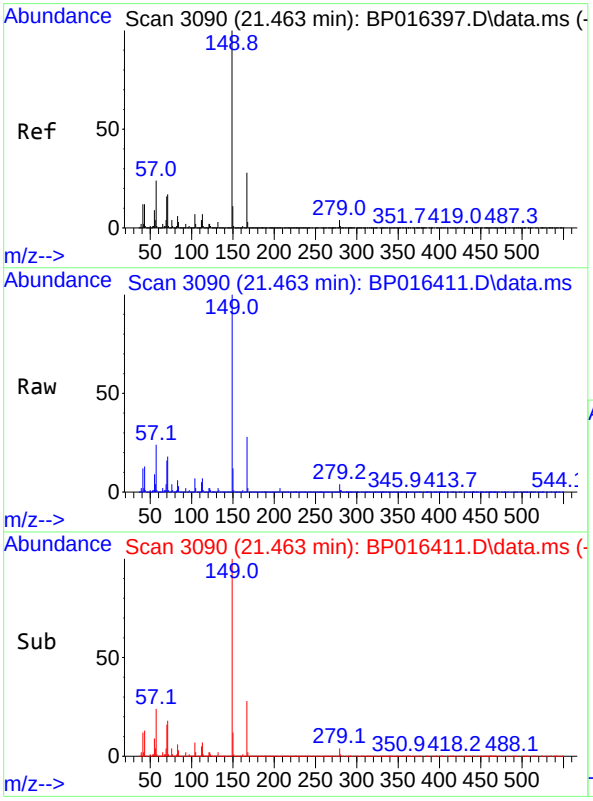
Ion	Ratio	Lower	Upper
228	100		
226	31.0	24.6	37.0
229	19.9	16.0	24.0



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

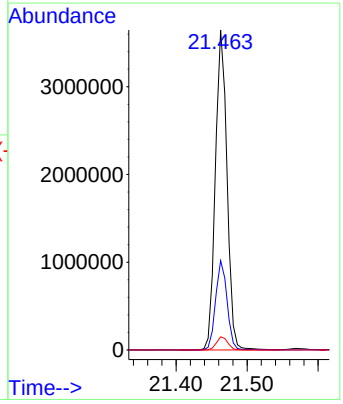
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

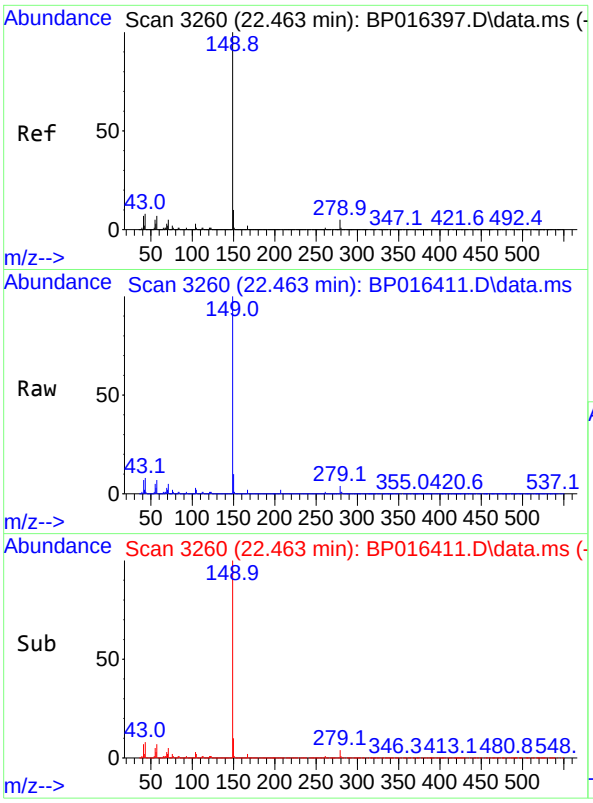


#84
Bis(2-ethylhexyl)phthalate
Concen: 45.581 ng
RT: 21.463 min Scan# 3090
Delta R.T. 0.000 min
Lab File: BP016411.D
Acq: 28 Jul 2023 08:03

Tgt Ion:149 Resp: 4131497

Ion	Ratio	Lower	Upper
149	100		
167	27.9	22.5	33.7
279	4.1	3.6	5.4





#85
Di-n-octyl phthalate
Concen: 43.386 ng
RT: 22.463 min Scan# 3
Delta R.T. 0.000 min
Lab File: BP016411.D
Acq: 28 Jul 2023 08:03

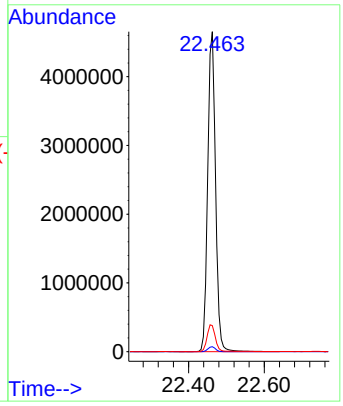
Tgt Ion:149 Resp: 661402

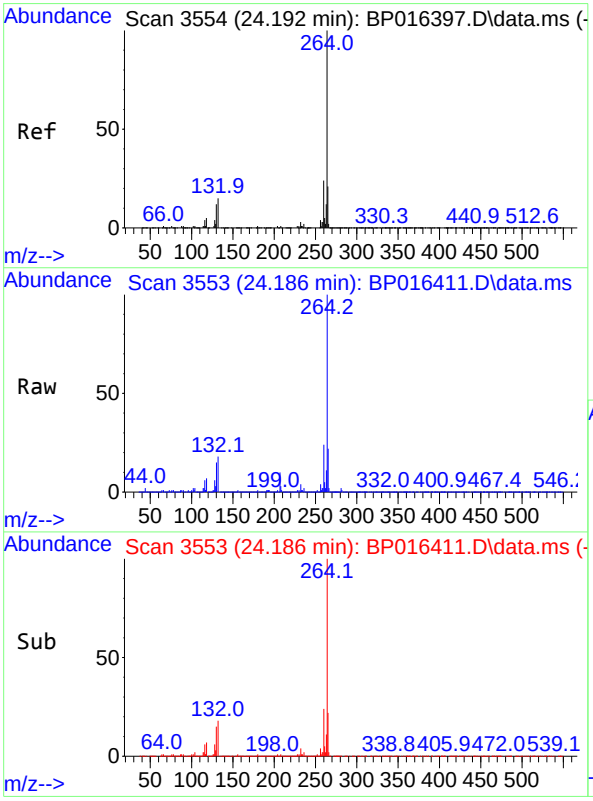
Ion	Ratio	Lower	Upper
149	100		
167	1.5	1.3	1.9
43	9.0	6.6	9.8

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

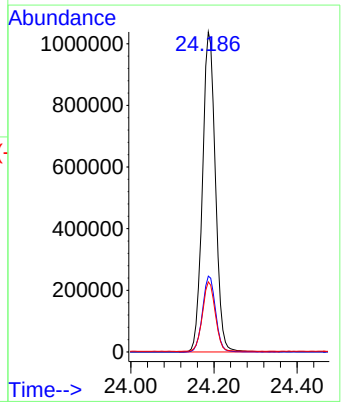


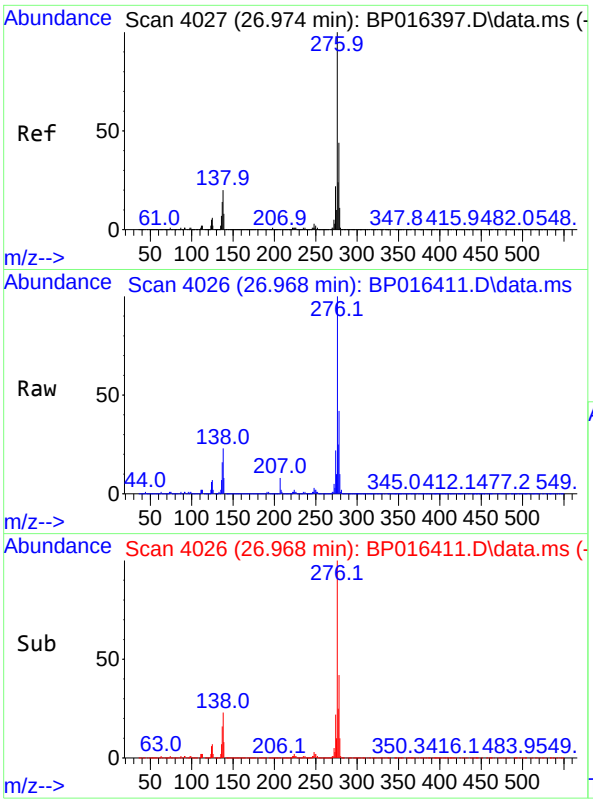


#86
Perylene-d12
Concen: 20.000 ng
RT: 24.186 min Scan# 3553
Delta R.T. -0.006 min
Lab File: BP016411.D
Acq: 28 Jul 2023 08:03

Tgt Ion:264 Resp: 2240141

Ion	Ratio	Lower	Upper
264	100		
260	23.7	19.3	28.9
265	21.9	17.4	26.0

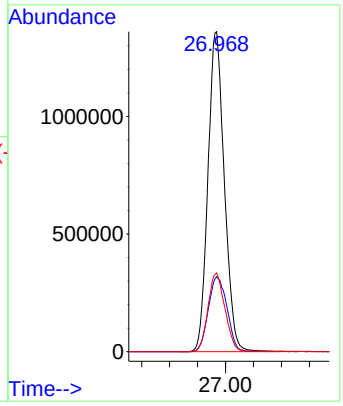




#87
Indeno(1,2,3-cd)pyrene
Concen: 36.703 ng
RT: 26.968 min Scan# 4
Delta R.T. -0.006 min
Lab File: BP016411.D
Acq: 28 Jul 2023 08:03

Tgt Ion:276 Resp: 554308

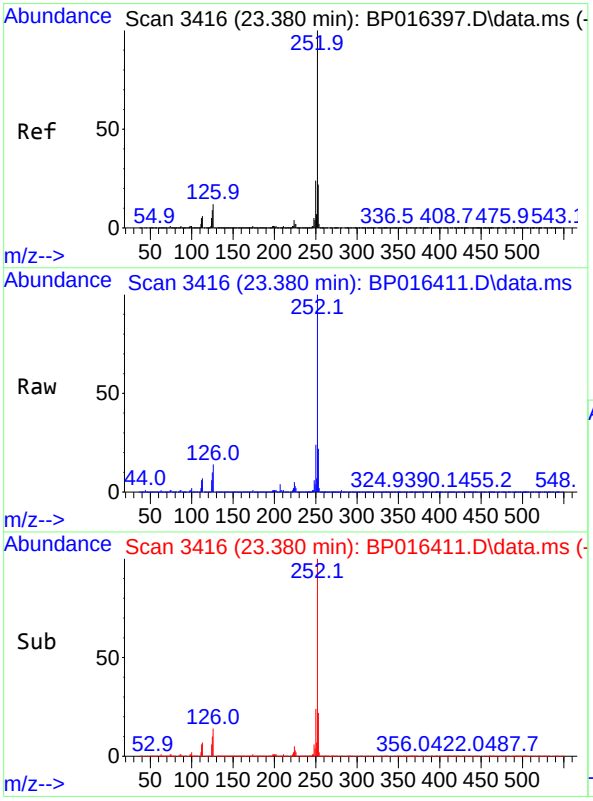
Ion	Ratio	Lower	Upper
276	100		
138	26.7	18.4	27.6
277	25.4	20.4	30.6



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

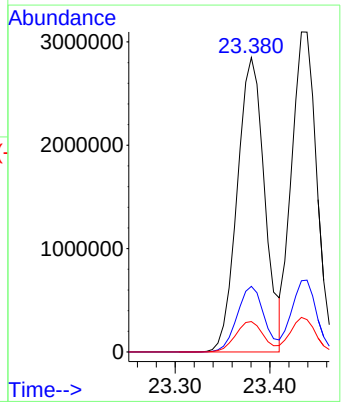
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

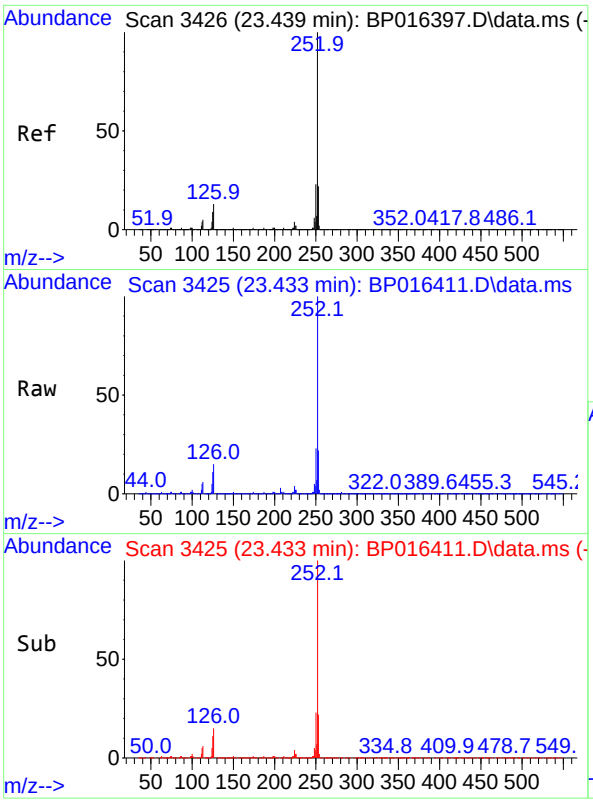


#88
Benzo(b)fluoranthene
Concen: 44.260 ng
RT: 23.380 min Scan# 3416
Delta R.T. 0.000 min
Lab File: BP016411.D
Acq: 28 Jul 2023 08:03

Tgt Ion:252 Resp: 5747274

Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.8	26.8
125	10.3	7.4	11.2

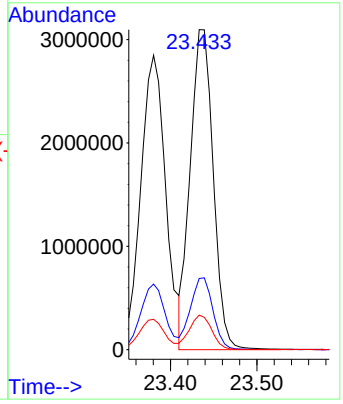




#89
Benzo(k)fluoranthene
Concen: 43.400 ng m
RT: 23.433 min Scan# 3
Delta R.T. -0.006 min
Lab File: BP016411.D
Acq: 28 Jul 2023 08:03

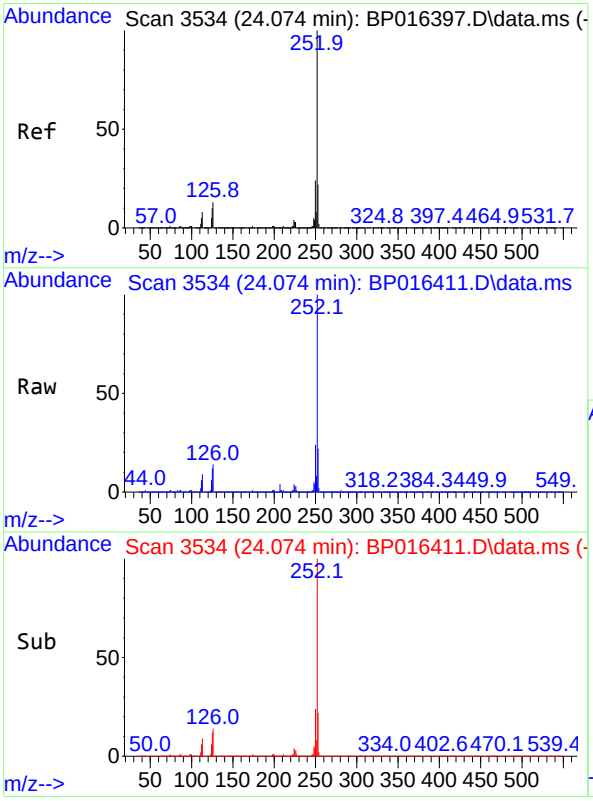
Tgt Ion:252 Resp: 573157

Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.8	26.8
125	10.8	7.1	10.7



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

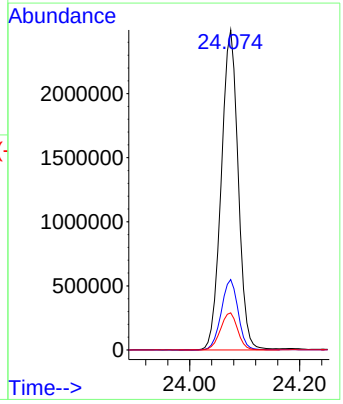
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

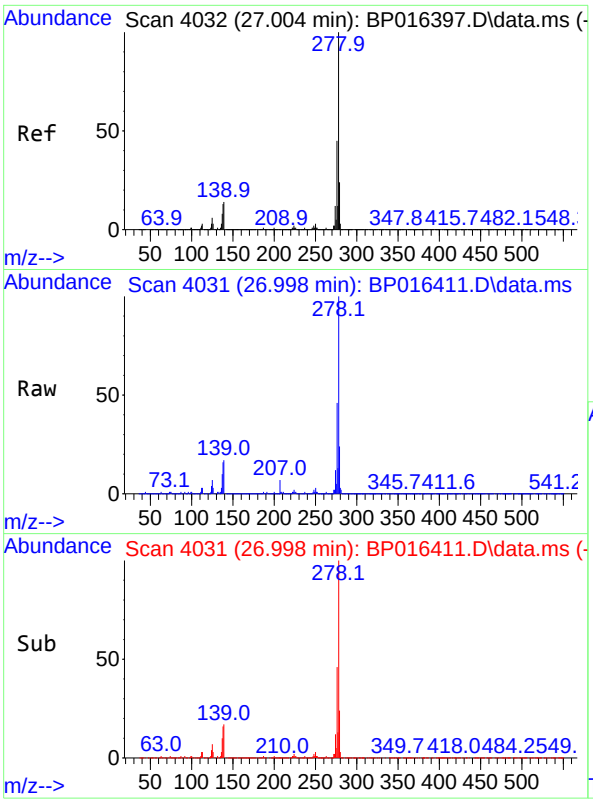


#90
Benzo(a)pyrene
Concen: 42.294 ng
RT: 24.074 min Scan# 3534
Delta R.T. 0.000 min
Lab File: BP016411.D
Acq: 28 Jul 2023 08:03

Tgt Ion:252 Resp: 5319663

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.8	26.6
125	11.6	8.3	12.5

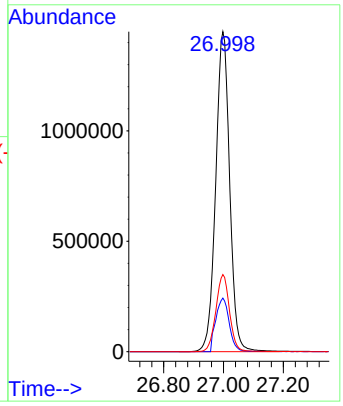




#91
Dibenzo(a,h)anthracene
Concen: 37.289 ng
RT: 26.998 min Scan# 4
Delta R.T. -0.006 min
Lab File: BP016411.D
Acq: 28 Jul 2023 08:03

Tgt Ion:278 Resp: 469646

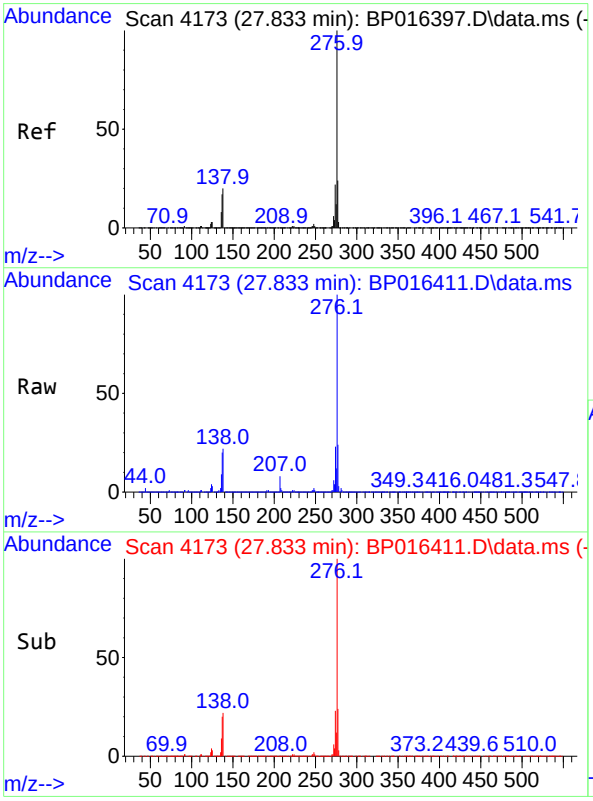
Ion	Ratio	Lower	Upper
278	100		
139	16.8	11.6	17.4
279	24.1	19.0	28.6



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

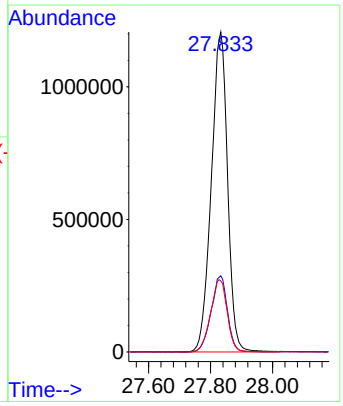
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023



#92
Benzo(g,h,i)perylene
Concen: 36.183 ng
RT: 27.833 min Scan# 4173
Delta R.T. 0.000 min
Lab File: BP016411.D
Acq: 28 Jul 2023 08:03

Tgt Ion:276 Resp: 4391594

Ion	Ratio	Lower	Upper
276	100		
277	23.8	19.2	28.8
138	22.2	16.1	24.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP072823\
Data File : BP016411.D
Acq On : 28 Jul 2023 08:03
Operator : MA/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_P
LabSampleId :
SSTDCCC040

Quant Time: Jul 28 08:40:25 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP072723.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 28 01:48:25 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	112	0.00
2		1,4-Dioxane	0.478	0.507	-6.1	124	0.00
3		Pyridine	1.429	1.533	-7.3	122	0.00
4		n-Nitrosodimethylamine	0.539	0.581	-7.8	125	0.00
5	S	2-Fluorophenol	1.226	1.299	-6.0	119	0.00
6		Aniline	2.076	2.215	-6.7	119	0.00
7	S	Phenol-d6	1.680	1.786	-6.3	119	0.00
8		2-Chlorophenol	1.285	1.350	-5.1	116	0.00
9		Benzaldehyde	0.866	0.889	-2.7	125	0.00
10	C	Phenol	1.632	1.737	-6.4	119	0.00
11		bis(2-Chloroethyl)ether	1.326	1.399	-5.5	119	0.00
12		1,3-Dichlorobenzene	1.380	1.405	-1.8	115	0.00
13	C	1,4-Dichlorobenzene	1.400	1.426	-1.9	115	0.00
14		1,2-Dichlorobenzene	1.348	1.370	-1.6	114	0.00
15		Benzyl Alcohol	1.148	1.238	-7.8	119	0.00
16		2,2'-oxybis(1-Chloropropane	1.504	1.643	-9.2	125	0.00
17		2-Methylphenol	1.176	1.244	-5.8	117	0.00
18		Hexachloroethane	0.499	0.519	-4.0	118	0.00
19	P	n-Nitroso-di-n-propylamine	1.053	1.118	-6.2	119	0.00
20		3+4-Methylphenols	1.597	1.691	-5.9	116	0.00
21	I	Naphthalene-d8	1.000	1.000	0.0	114	0.00
22		Acetophenone	0.505	0.518	-2.6	117	0.00
23	S	Nitrobenzene-d5	0.357	0.376	-5.3	119	0.00
24		Nitrobenzene	0.367	0.388	-5.7	120	0.00
25		Isophorone	0.721	0.750	-4.0	117	0.00
26	C	2-Nitrophenol	0.141	0.153	-8.5	115	0.00
27		2,4-Dimethylphenol	0.323	0.330	-2.2	115	0.00
28		bis(2-Chloroethoxy)methane	0.442	0.460	-4.1	118	0.00
29	C	2,4-Dichlorophenol	0.302	0.308	-2.0	111	0.00
30		1,2,4-Trichlorobenzene	0.327	0.320	2.1	108	0.00
31		Naphthalene	1.046	1.055	-0.9	114	0.00
32		Benzoic acid	0.191	0.199	-4.2	116	0.01
33		4-Chloroaniline	0.472	0.480	-1.7	114	0.00
34	C	Hexachlorobutadiene	0.194	0.182	6.2	102	0.00
35		Caprolactam	0.110	0.112	-1.8	112	0.00
36	C	4-Chloro-3-methylphenol	0.336	0.346	-3.0	114	0.00
37		2-Methylnaphthalene	0.760	0.762	-0.3	112	0.00
38		1-Methylnaphthalene	0.713	0.715	-0.3	112	0.00
39	I	Acenaphthene-d10	1.000	1.000	0.0	108	0.00
40		1,2,4,5-Tetrachlorobenzene	0.608	0.595	2.1	102	0.00
41	P	Hexachlorocyclopentadiene	0.305	0.309	-1.3	101	0.00
42	S	2,4,6-Tribromophenol	0.294	0.259	11.9	88	0.00
43	C	2,4,6-Trichlorophenol	0.390	0.402	-3.1	104	0.00
44		2,4,5-Trichlorophenol	0.473	0.484	-2.3	105	0.00
45	S	2-Fluorobiphenyl	1.395	1.387	0.6	106	0.00
46		1,1'-Biphenyl	1.525	1.551	-1.7	109	0.00
47		2-Chloronaphthalene	1.150	1.171	-1.8	109	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP072823\
Data File : BP016411.D
Acq On : 28 Jul 2023 08:03
Operator : MA/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_P
LabSampleId :
SSTDCCC040

Quant Time: Jul 28 08:40:25 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP072723.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 28 01:48:25 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
48		2-Nitroaniline	0.324	0.366	-13.0	118	0.00
49		Acenaphthylene	1.908	1.958	-2.6	110	0.00
50		Dimethylphthalate	1.559	1.562	-0.2	108	0.00
51		2,6-Dinitrotoluene	0.319	0.335	-5.0	108	0.00
52	C	Acenaphthene	1.135	1.159	-2.1	109	0.00
53		3-Nitroaniline	0.361	0.387	-7.2	112	0.00
54	P	2,4-Dinitrophenol	0.121	0.124	-2.5	110	0.00
55		Dibenzofuran	1.861	1.866	-0.3	108	0.00
56	P	4-Nitrophenol	0.283	0.301	-6.4	110	0.00
57		2,4-Dinitrotoluene	0.416	0.449	-7.9	108	0.00
58		Fluorene	1.462	1.453	0.6	105	0.00
59		2,3,4,6-Tetrachlorophenol	0.389	0.380	2.3	99	0.00
60		Diethylphthalate	1.549	1.566	-1.1	109	0.00
61		4-Chlorophenyl-phenylether	0.738	0.714	3.3	101	0.00
62		4-Nitroaniline	0.358	0.379	-5.9	109	0.00
63		Azobenzene	1.462	1.540	-5.3	116	0.00
64	I	Phenanthrene-d10	1.000	1.000	0.0	103	0.00
65		4,6-Dinitro-2-methylphenol	0.084	0.092	-9.5	110	0.00
66	c	n-Nitrosodiphenylamine	0.589	0.616	-4.6	107	0.00
67		4-Bromophenyl-phenylether	0.212	0.211	0.5	97	0.00
68		Hexachlorobenzene	0.236	0.226	4.2	93	0.00
69		Atrazine	0.175	0.179	-2.3	102	0.00
70	C	Pentachlorophenol	0.163	0.159	2.5	96	0.00
71		Phenanthrene	1.062	1.076	-1.3	104	0.00
72		Anthracene	1.068	1.096	-2.6	104	0.00
73		Carbazole	1.001	1.026	-2.5	105	0.00
74		Di-n-butylphthalate	1.158	1.238	-6.9	107	0.00
75	C	Fluoranthene	1.245	1.231	1.1	99	0.00
76	I	Chrysene-d12	1.000	1.000	0.0	91	0.00
77		Benzidine	0.347	0.465	-34.0#	111	0.00
78		Pyrene	1.341	1.487	-10.9	99	0.00
79	S	Terphenyl-d14	0.947	1.013	-7.0	93	0.00
80		Butylbenzylphthalate	0.527	0.619	-17.5	104	0.00
81		Benzo(a)anthracene	1.342	1.394	-3.9	93	0.00
82		3,3'-Dichlorobenzidine	0.441	0.458	-3.9	89	0.00
83		Chrysene	1.281	1.312	-2.4	92	0.00
84		Bis(2-ethylhexyl)phthalate	0.791	0.901	-13.9	101	0.00
85	c	Di-n-octyl phthalate	1.330	1.443	-8.5	97	0.00
86	I	Perylene-d12	1.000	1.000	0.0	79	0.00
87		Indeno(1,2,3-cd)pyrene	1.348	1.237	8.2	73	0.00
88		Benzo(b)fluoranthene	1.159	1.283	-10.7	84	0.00
89		Benzo(k)fluoranthene	1.179	1.279	-8.5	83	0.00
90	C	Benzo(a)pyrene	1.123	1.187	-5.7	81	0.00
91		Dibenzo(a,h)anthracene	1.124	1.048	6.8	73	0.00
92		Benzo(g,h,i)perylene	1.084	0.980	9.6	72	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP072823\
Data File : BP016411.D
Acq On : 28 Jul 2023 08:03
Operator : MA/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_P
LabSampleId :
SSTDCCC040

Quant Time: Jul 28 08:40:25 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP072723.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 28 01:48:25 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP072823\
Data File : BP016411.D
Acq On : 28 Jul 2023 08:03
Operator : MA/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_P
LabSampleId :
SSTDCCC040

Quant Time: Jul 28 08:40:25 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP072723.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 28 01:48:25 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	20.000	20.000	0.0	112	0.00
2		1,4-Dioxane	40.000	42.391	-6.0	124	0.00
3		Pyridine	40.000	42.905	-7.3	122	0.00
4		n-Nitrosodimethylamine	40.000	43.132	-7.8	125	0.00
5	S	2-Fluorophenol	80.000	84.777	-6.0	119	0.00
6		Aniline	40.000	42.695	-6.7	119	0.00
7	S	Phenol-d6	80.000	85.006	-6.3	119	0.00
8		2-Chlorophenol	40.000	42.006	-5.0	116	0.00
9		Benzaldehyde	40.000	48.142	-20.4	125	0.00
10	C	Phenol	40.000	42.571	-6.4	119	0.00
11		bis(2-Chloroethyl)ether	40.000	42.180	-5.4	119	0.00
12		1,3-Dichlorobenzene	40.000	40.717	-1.8	115	0.00
13	C	1,4-Dichlorobenzene	40.000	40.746	-1.9	115	0.00
14		1,2-Dichlorobenzene	40.000	40.663	-1.7	114	0.00
15		Benzyl Alcohol	40.000	43.150	-7.9	119	0.00
16		2,2'-oxybis(1-Chloropropane	40.000	43.692	-9.2	125	0.00
17		2-Methylphenol	40.000	42.317	-5.8	117	0.00
18		Hexachloroethane	40.000	41.599	-4.0	118	0.00
19	P	n-Nitroso-di-n-propylamine	40.000	42.496	-6.2	119	0.00
20		3+4-Methylphenols	40.000	42.344	-5.9	116	0.00
21	I	Naphthalene-d8	20.000	20.000	0.0	114	0.00
22		Acetophenone	40.000	41.032	-2.6	117	0.00
23	S	Nitrobenzene-d5	80.000	84.257	-5.3	119	0.00
24		Nitrobenzene	40.000	42.292	-5.7	120	0.00
25		Isophorone	40.000	41.602	-4.0	117	0.00
26	C	2-Nitrophenol	40.000	39.379	1.6	115	0.00
27		2,4-Dimethylphenol	40.000	40.851	-2.1	115	0.00
28		bis(2-Chloroethoxy)methane	40.000	41.688	-4.2	118	0.00
29	C	2,4-Dichlorophenol	40.000	40.835	-2.1	111	0.00
30		1,2,4-Trichlorobenzene	40.000	39.173	2.1	108	0.00
31		Naphthalene	40.000	40.344	-0.9	114	0.00
32		Benzoic acid	40.000	39.018	2.5	116	0.01
33		4-Chloroaniline	40.000	40.668	-1.7	114	0.00
34	C	Hexachlorobutadiene	40.000	37.634	5.9	102	0.00
35		Caprolactam	40.000	40.432	-1.1	112	0.00
36	C	4-Chloro-3-methylphenol	40.000	41.211	-3.0	114	0.00
37		2-Methylnaphthalene	40.000	40.110	-0.3	112	0.00
38		1-Methylnaphthalene	40.000	40.146	-0.4	112	0.00
39	I	Acenaphthene-d10	20.000	20.000	0.0	108	0.00
40		1,2,4,5-Tetrachlorobenzene	40.000	39.126	2.2	102	0.00
41	P	Hexachlorocyclopentadiene	40.000	40.485	-1.2	101	0.00
42	S	2,4,6-Tribromophenol	80.000	70.473	11.9	88	0.00
43	C	2,4,6-Trichlorophenol	40.000	41.224	-3.1	104	0.00
44		2,4,5-Trichlorophenol	40.000	40.954	-2.4	105	0.00
45	S	2-Fluorobiphenyl	80.000	79.527	0.6	106	0.00
46		1,1'-Biphenyl	40.000	40.688	-1.7	109	0.00
47		2-Chloronaphthalene	40.000	40.730	-1.8	109	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP072823\
Data File : BP016411.D
Acq On : 28 Jul 2023 08:03
Operator : MA/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_P
LabSampleId :
SSTDCCC040

Quant Time: Jul 28 08:40:25 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP072723.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 28 01:48:25 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
48		2-Nitroaniline	40.000	45.162	-12.9	118	0.00
49		Acenaphthylene	40.000	41.045	-2.6	110	0.00
50		Dimethylphthalate	40.000	40.098	-0.2	108	0.00
51		2,6-Dinitrotoluene	40.000	41.955	-4.9	108	0.00
52	C	Acenaphthene	40.000	40.848	-2.1	109	0.00
53		3-Nitroaniline	40.000	42.831	-7.1	112	0.00
54	P	2,4-Dinitrophenol	40.000	37.884	5.3	110	0.00
55		Dibenzofuran	40.000	40.100	-0.3	108	0.00
56	P	4-Nitrophenol	40.000	42.667	-6.7	110	0.00
57		2,4-Dinitrotoluene	40.000	43.116	-7.8	108	0.00
58		Fluorene	40.000	39.743	0.6	105	0.00
59		2,3,4,6-Tetrachlorophenol	40.000	39.091	2.3	99	0.00
60		Diethylphthalate	40.000	40.448	-1.1	109	0.00
61		4-Chlorophenyl-phenylether	40.000	38.721	3.2	101	0.00
62		4-Nitroaniline	40.000	42.293	-5.7	109	0.00
63		Azobenzene	40.000	42.108	-5.3	116	0.00
64	I	Phenanthrene-d10	20.000	20.000	0.0	103	0.00
65		4,6-Dinitro-2-methylphenol	40.000	40.612	-1.5	110	0.00
66	c	n-Nitrosodiphenylamine	40.000	41.810	-4.5	107	0.00
67		4-Bromophenyl-phenylether	40.000	39.912	0.2	97	0.00
68		Hexachlorobenzene	40.000	38.299	4.3	93	0.00
69		Atrazine	40.000	40.797	-2.0	102	0.00
70	C	Pentachlorophenol	40.000	38.880	2.8	96	0.00
71		Phenanthrene	40.000	40.516	-1.3	104	0.00
72		Anthracene	40.000	41.041	-2.6	104	0.00
73		Carbazole	40.000	40.993	-2.5	105	0.00
74		Di-n-butylphthalate	40.000	42.757	-6.9	107	0.00
75	C	Fluoranthene	40.000	39.550	1.1	99	0.00
76	I	Chrysene-d12	20.000	20.000	0.0	91	0.00
77		Benzidine	40.000	53.696	-34.2#	111	0.00
78		Pyrene	40.000	44.366	-10.9	99	0.00
79	S	Terphenyl-d14	80.000	85.607	-7.0	93	0.00
80		Butylbenzylphthalate	40.000	46.991	-17.5	104	0.00
81		Benzo(a)anthracene	40.000	41.564	-3.9	93	0.00
82		3,3'-Dichlorobenzidine	40.000	41.576	-3.9	89	0.00
83		Chrysene	40.000	40.963	-2.4	92	0.00
84		Bis(2-ethylhexyl)phthalate	40.000	45.581	-14.0	101	0.00
85	c	Di-n-octyl phthalate	40.000	43.386	-8.5	97	0.00
86	I	Perylene-d12	20.000	20.000	0.0	79	0.00
87		Indeno(1,2,3-cd)pyrene	40.000	36.703	8.2	73	0.00
88		Benzo(b)fluoranthene	40.000	44.260	-10.6	84	0.00
89		Benzo(k)fluoranthene	40.000	43.400	-8.5	83	0.00
90	C	Benzo(a)pyrene	40.000	42.294	-5.7	81	0.00
91		Dibenzo(a,h)anthracene	40.000	37.289	6.8	73	0.00
92		Benzo(g,h,i)perylene	40.000	36.183	9.5	72	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP072823\
Data File : BP016411.D
Acq On : 28 Jul 2023 08:03
Operator : MA/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_P
LabSampleId :
SSTDCCC040

Quant Time: Jul 28 08:40:25 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP072723.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 28 01:48:25 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)

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

CHEMTECH

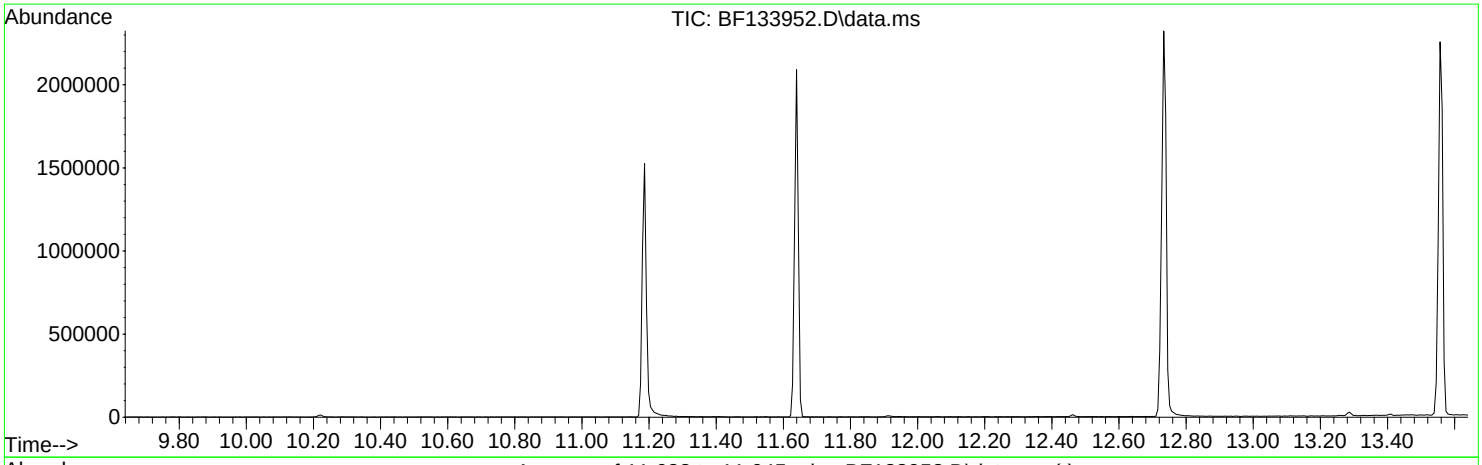
QC SAMPLE DATA

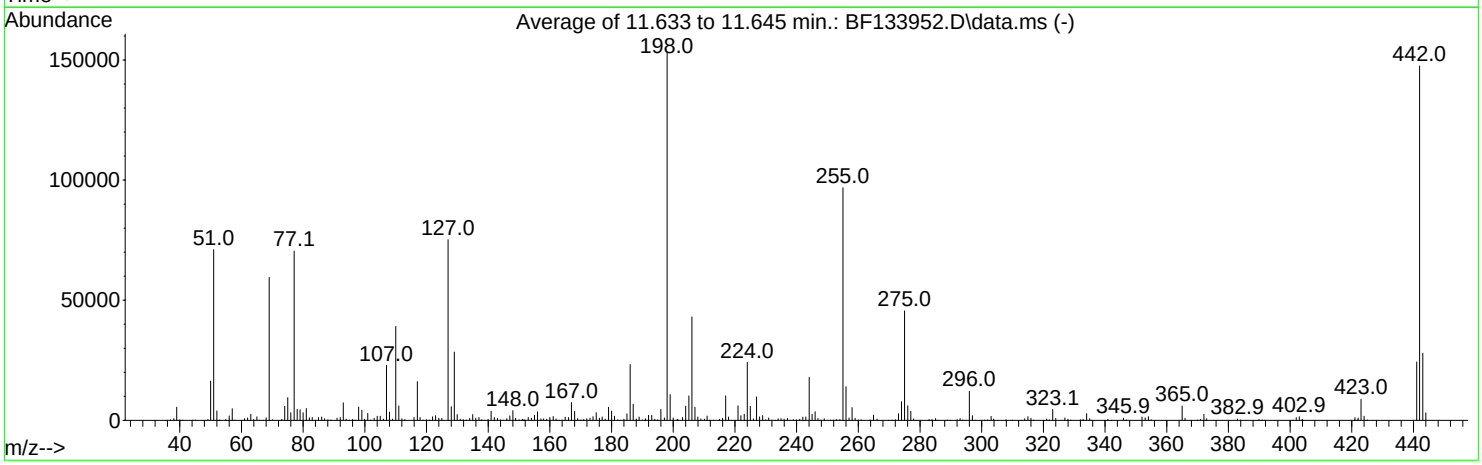
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF062623\
Data File : BF133952.D
Acq On : 26 Jun 2023 14:41
Operator : CG\JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF062623.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Mon Jun 26 23:12:04 2023





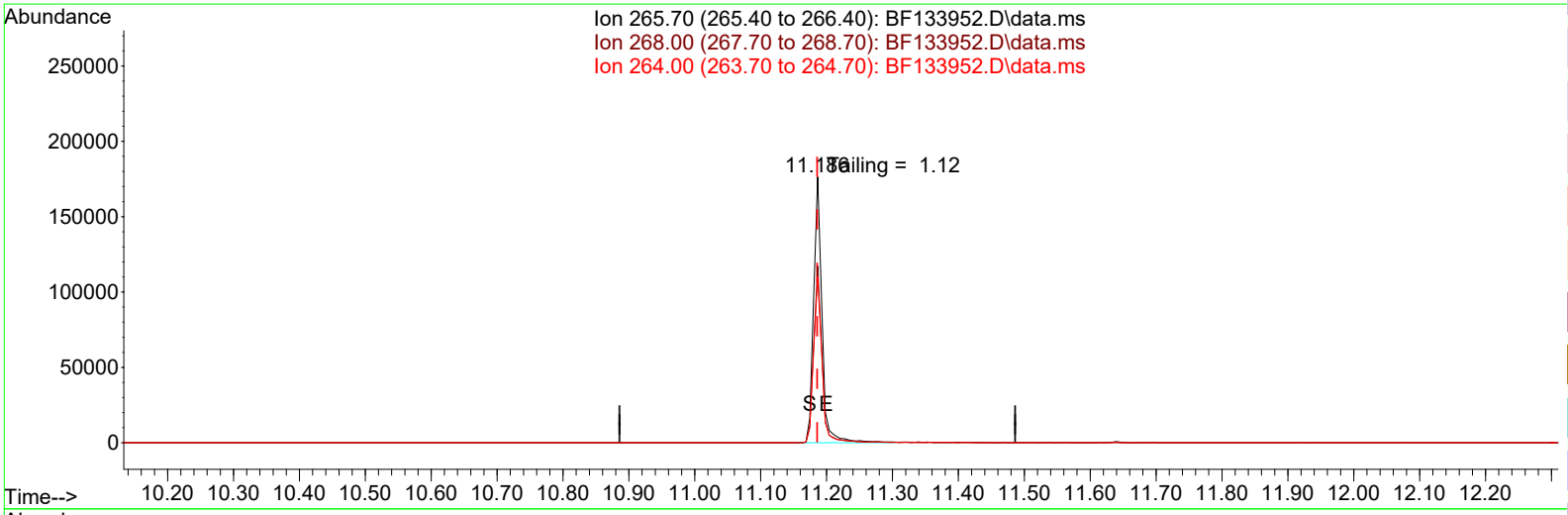
AutoFind: Scans 1623, 1624, 1625; Background Corrected with Scan 1618

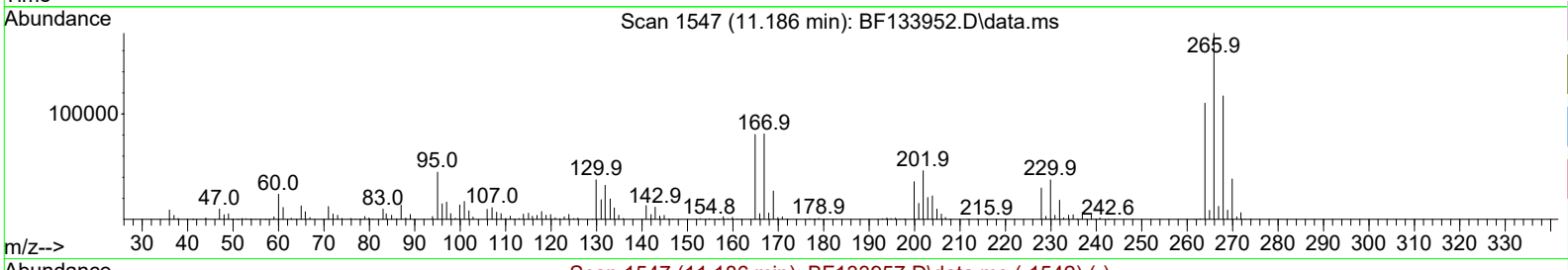
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	46.4	71069	PASS
68	69	0.00	2	1.8	1094	PASS
69	198	0.00	100	38.9	59539	PASS
70	69	0.00	2	0.5	270	PASS
127	198	10	80	49.1	75219	PASS
197	198	0.00	2	0.7	1006	PASS
198	198	100	100	100.0	153117	PASS
199	198	5	9	7.0	10739	PASS
275	198	10	60	29.7	45536	PASS
365	198	1	100	3.9	5946	PASS
441	198	0.01	100	15.9	24328	PASS
442	442	50	100	100.0	147541	PASS
443	442	15	24	19.0	27994	PASS

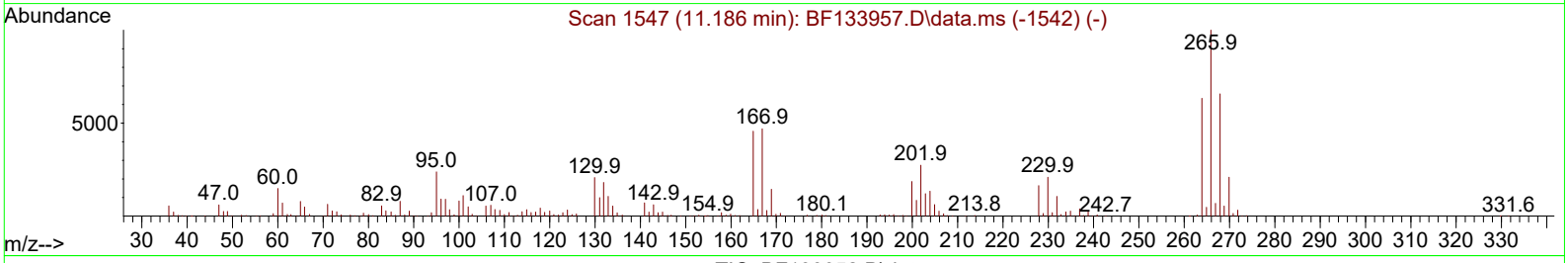
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF062623\
Data File : BF133952.D
Acq On : 26 Jun 2023 14:41
Operator : CG\JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Jun 27 07:40:18 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF062623.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Jun 26 23:12:04 2023
Response via : Initial Calibration







TIC: BF133952.D\data.ms

(70) Pentachlorophenol (C)

11.186min (+ 0.000) 35045.89 ng

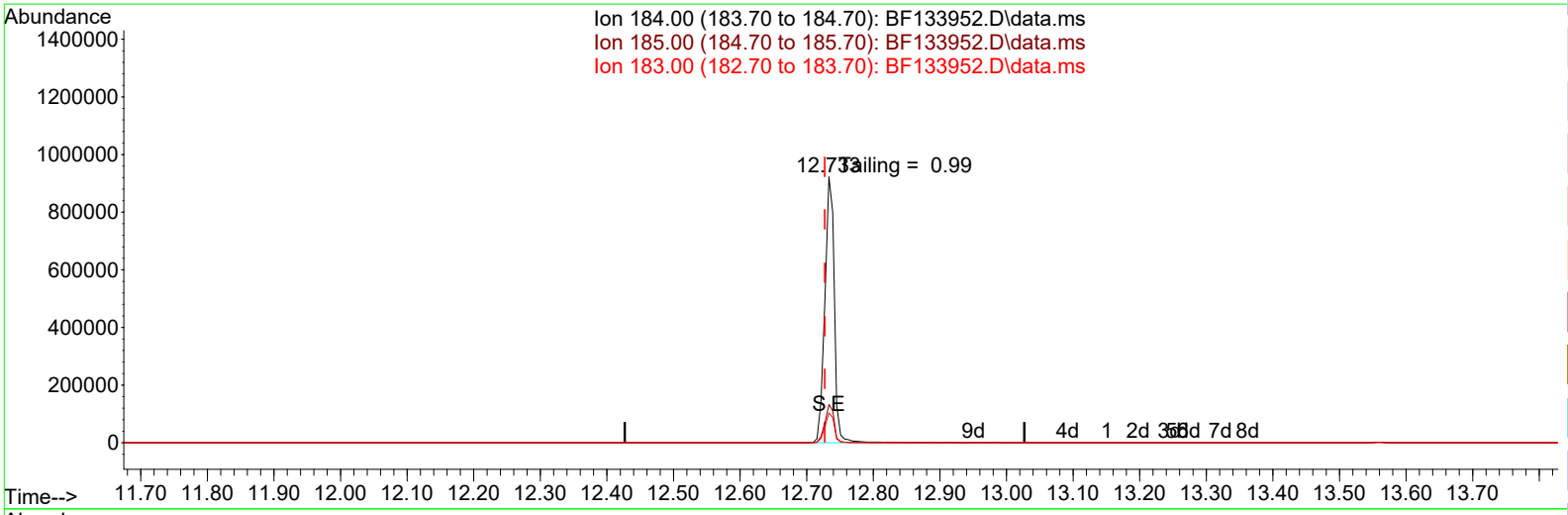
response 156312

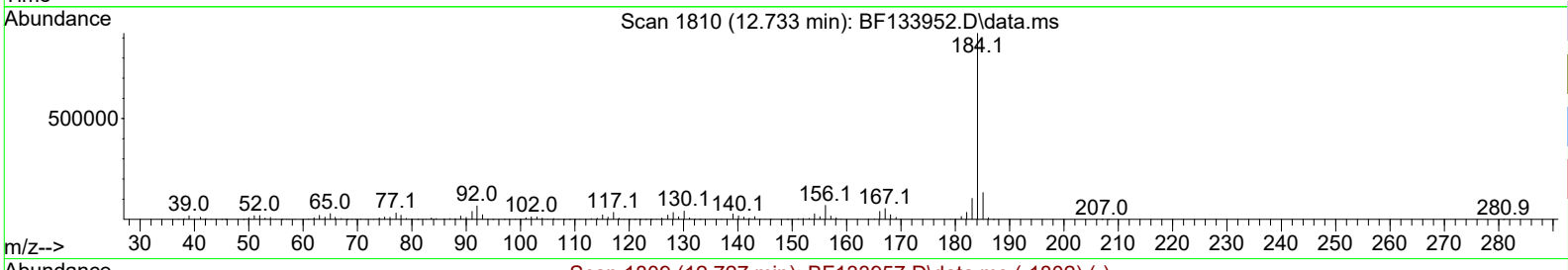
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	65.80	66.41
264.00	63.30	62.49
0.00	0.00	0.00

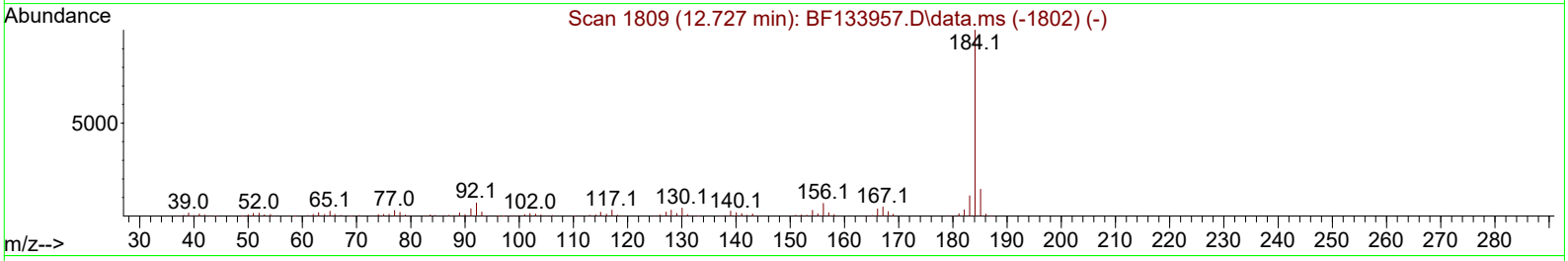
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF062623\
Data File : BF133952.D
Acq On : 26 Jun 2023 14:41
Operator : CG\JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Jun 27 07:40:18 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF062623.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Jun 26 23:12:04 2023
Response via : Initial Calibration







TIC: BF133952.D\data.ms

(77) Benzidine

12.733min (+ 0.006) 601006.30 ng m

response 915235

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	14.50	14.40
183.00	11.00	11.21
0.00	0.00	0.00

Instrument :
BNA_F
ClientSampleId :
DFTPP

DDT Breakdown

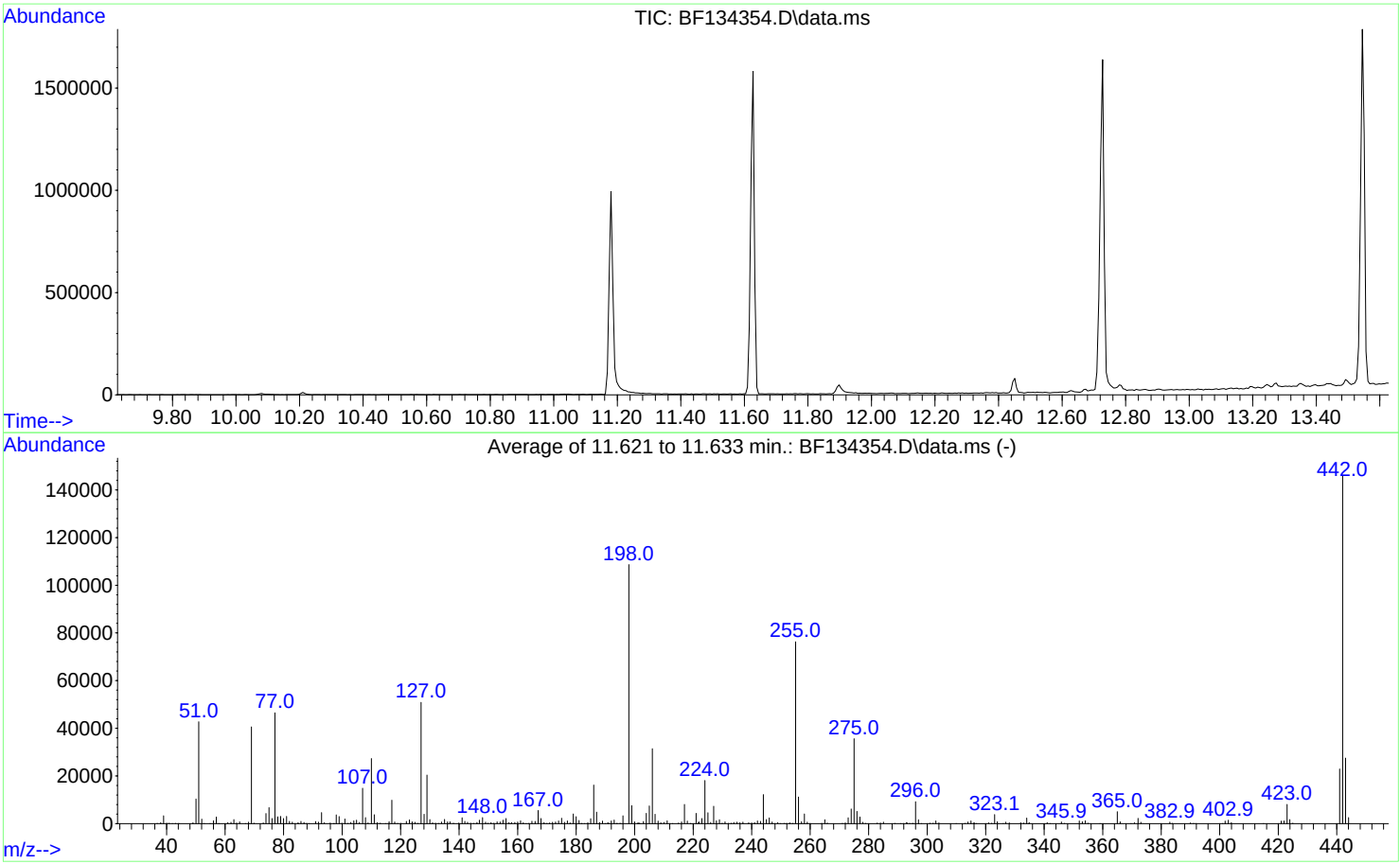
Date	Instrument Name	DFTPP Data File
6/26/2023	BNA_F	BF133952.D
Compound Name	**Response**	**Retention Time**
DDT	393321	13.557
DDD	5174	13.286
DDE	0	12.845
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
5174	398495	1.30

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF071923\
Data File : BF134354.D
Acq On : 19 Jul 2023 12:29
Operator : CG\JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF062623.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Jul 14 22:51:27 2023



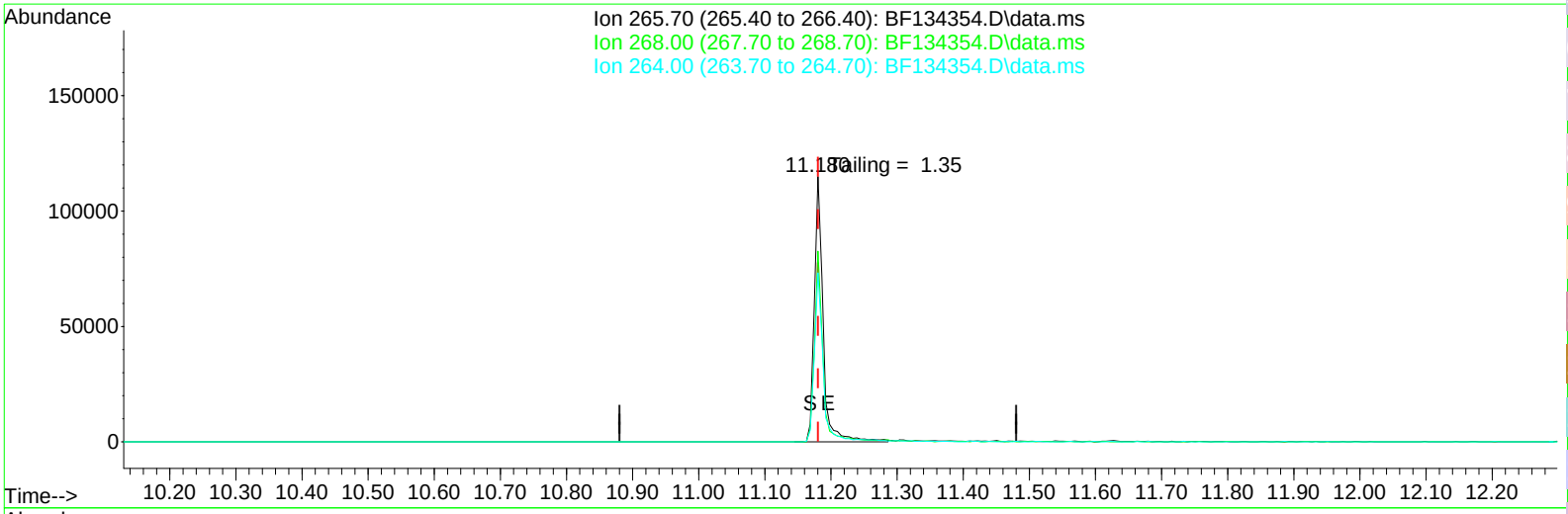
AutoFind: Scans 1621, 1622, 1623; Background Corrected with Scan 1615

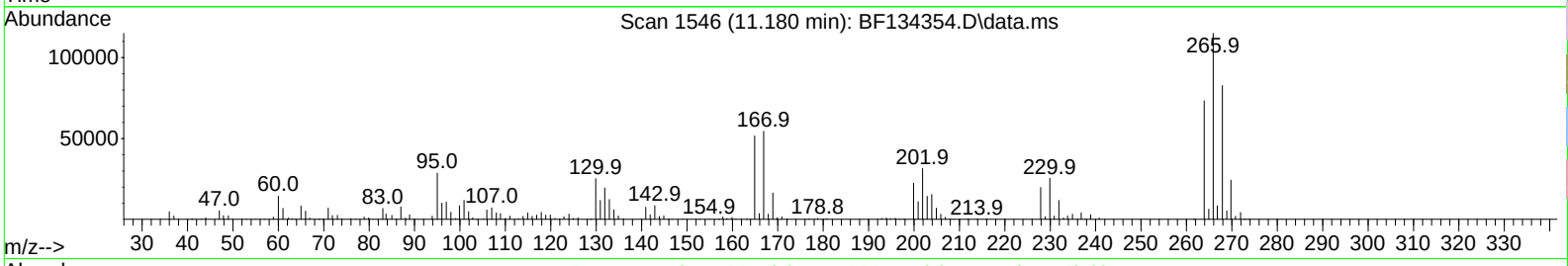
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	39.4	42770	PASS
68	69	0.00	2	1.5	612	PASS
69	198	0.00	100	37.4	40611	PASS
70	69	0.00	2	0.5	195	PASS
127	198	10	80	46.8	50886	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	108677	PASS
199	198	5	9	6.9	7548	PASS
275	198	10	60	32.8	35640	PASS
365	198	1	100	4.6	5018	PASS
441	198	0.01	100	21.1	22929	PASS
442	442	50	100	100.0	146019	PASS
443	442	15	24	18.8	27480	PASS

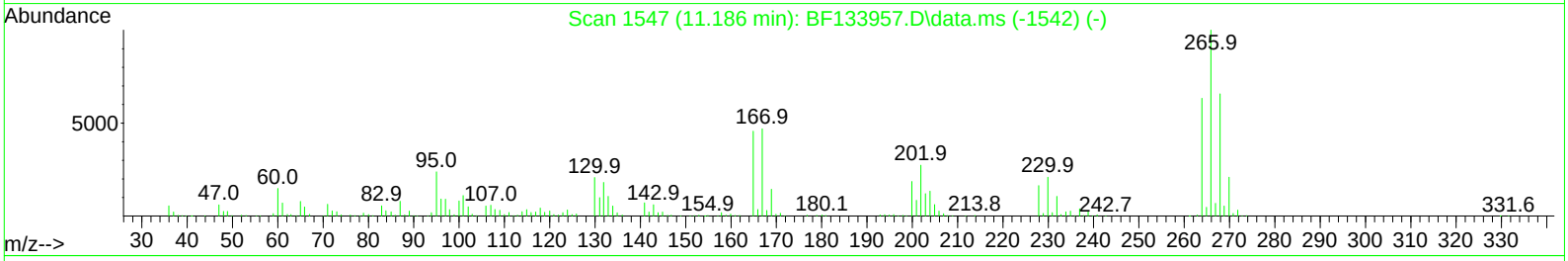
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF071923\
Data File : BF134354.D
Acq On : 19 Jul 2023 12:29
Operator : CG\JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Jul 19 14:08:20 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF062623.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 14 22:51:27 2023
Response via : Initial Calibration







TIC: BF134354.D\data.ms

(70) Pentachlorophenol (C)

11.180min (0.000) 24915.29 ng

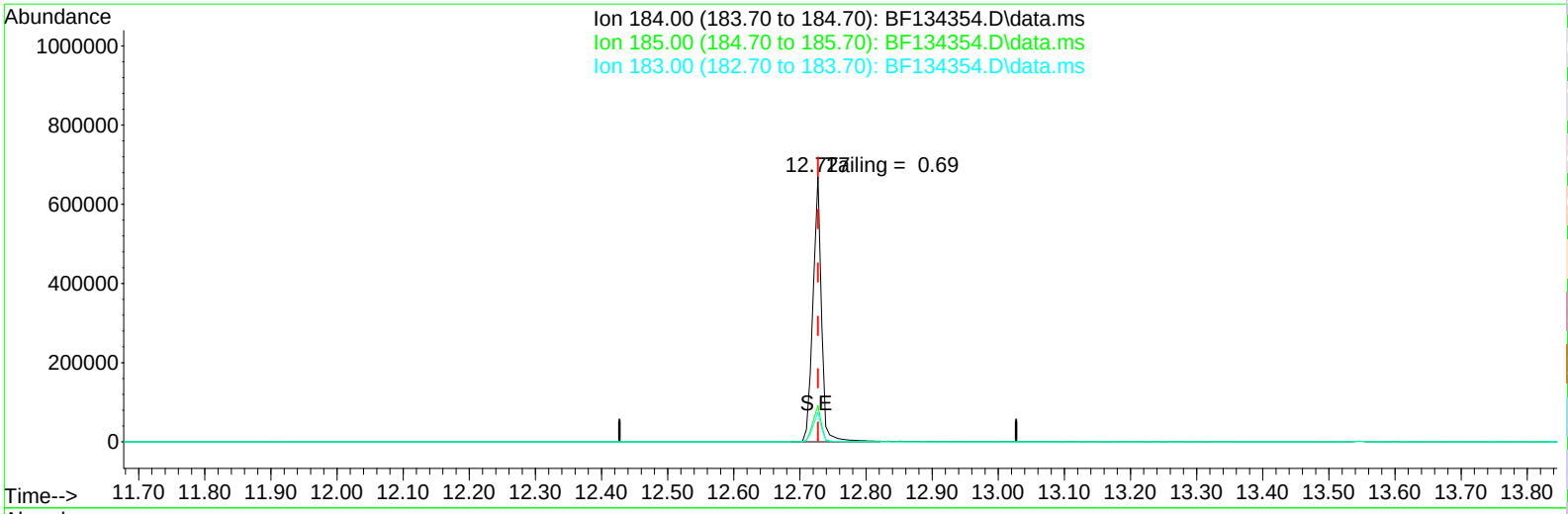
response 107765

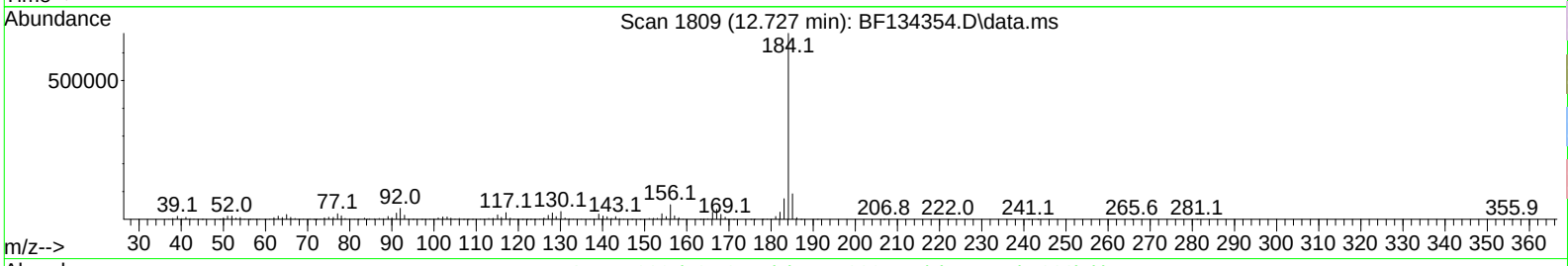
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	65.80	71.93
264.00	63.30	63.77
0.00	0.00	0.00

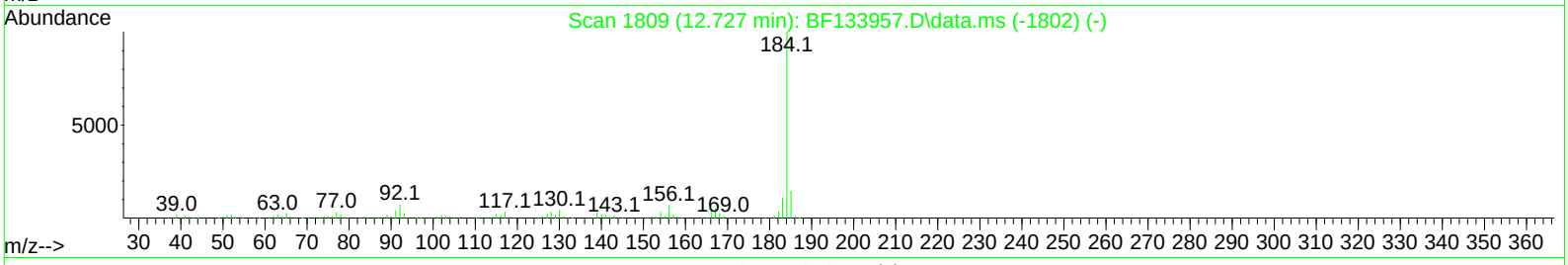
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF071923\
Data File : BF134354.D
Acq On : 19 Jul 2023 12:29
Operator : CG\JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Jul 19 14:08:20 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF062623.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 14 22:51:27 2023
Response via : Initial Calibration







TIC: BF134354.D\data.ms

(77) Benzidine

12.727min (0.000) 426374.76 ng

response 598573

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	14.50	13.69
183.00	11.00	11.08
0.00	0.00	0.00

Instrument :
BNA_F
ClientSampleId :
DFTPP

DDT Breakdown

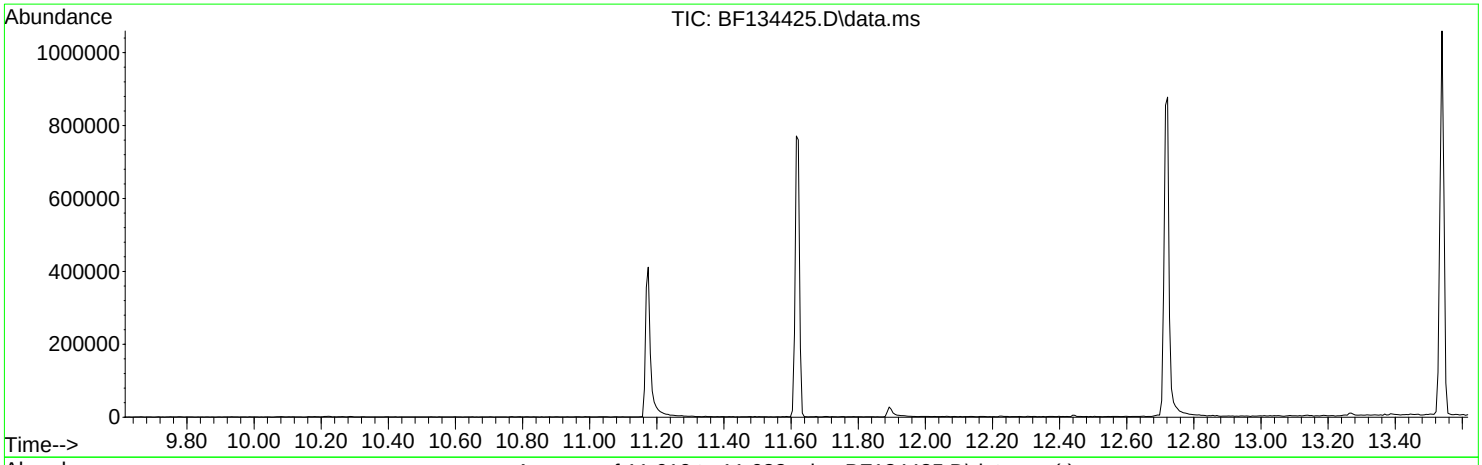
Date	Instrument Name	DFTPP Data File
7/19/2023	BNA_F	BF134354.D
Compound Name	**Response**	**Retention Time**
DDT	287822	13.545
DDD	7676	13.268
DDE	428	12.91
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
8104	295926	2.74

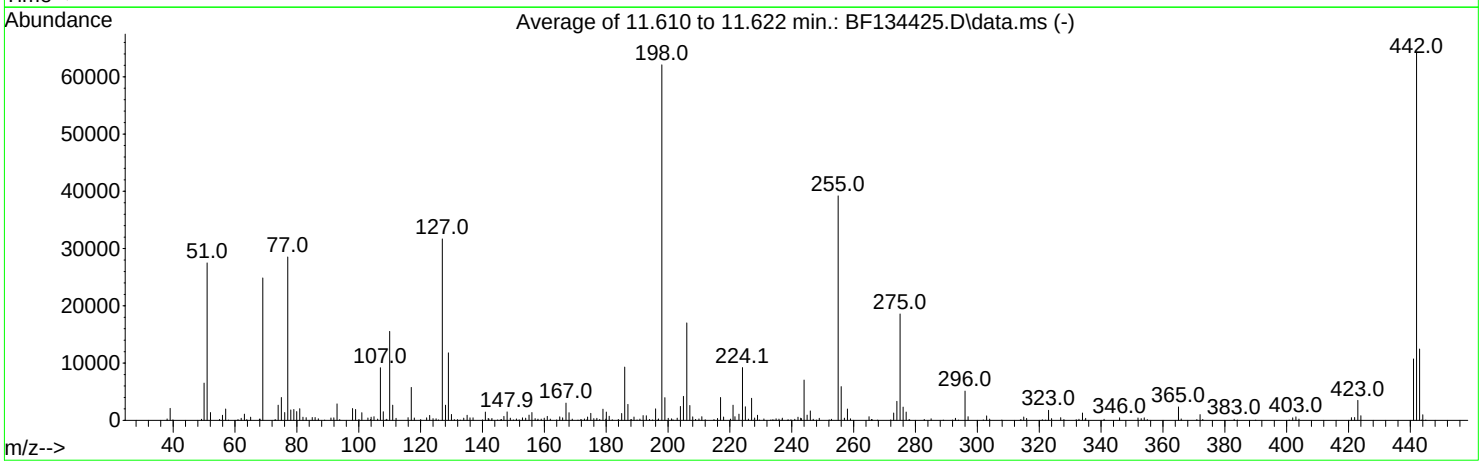
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF072423\
Data File : BF134425.D
Acq On : 24 Jul 2023 12:41
Operator : CG\JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF072423.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Tue Jul 25 01:46:04 2023





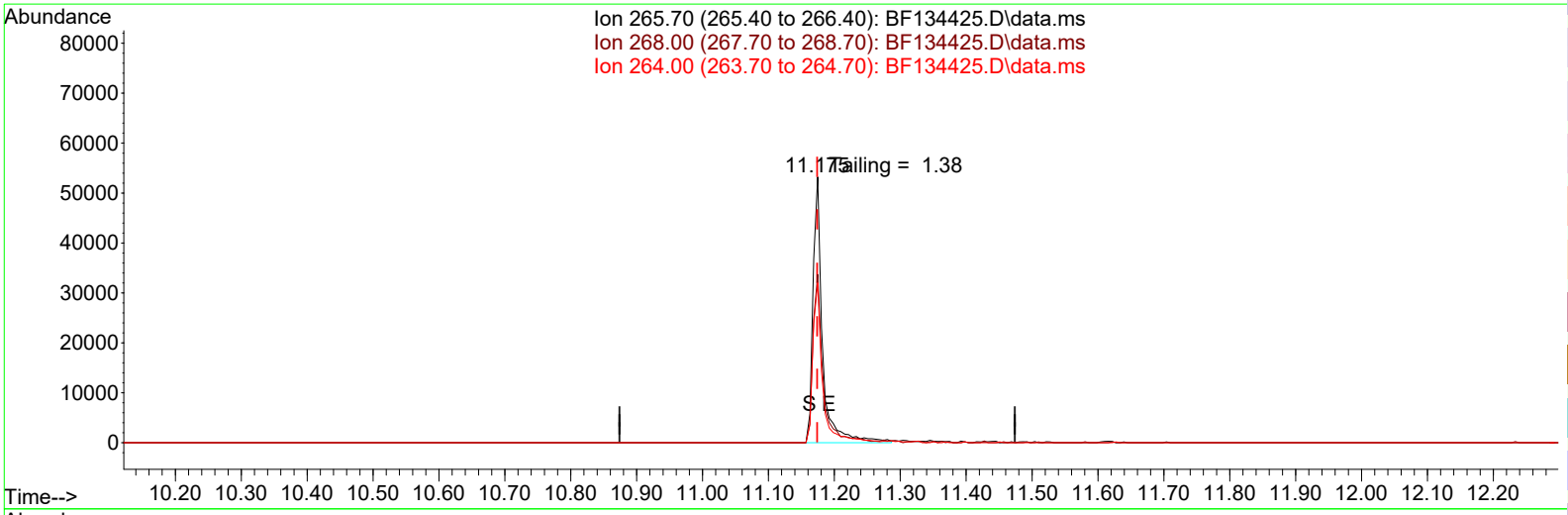
AutoFind: Scans 1619, 1620, 1621; Background Corrected with Scan 1615

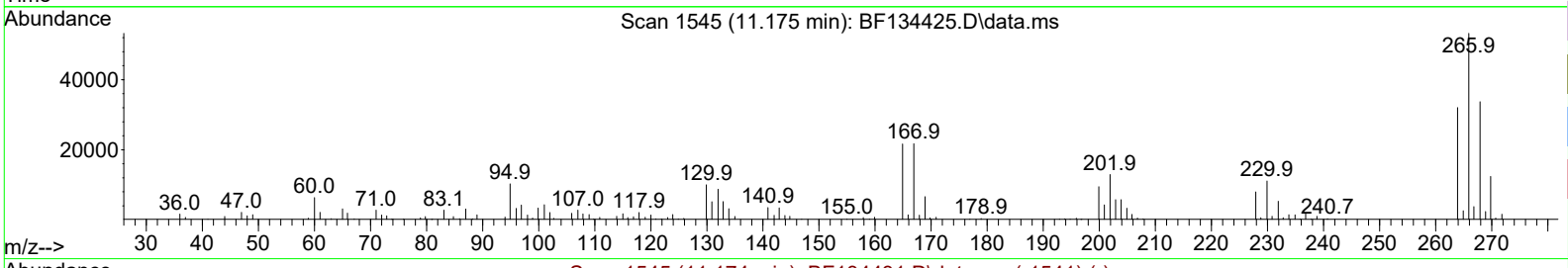
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	44.3	27503	PASS
68	69	0.00	2	0.9	228	PASS
69	198	0.00	100	40.1	24871	PASS
70	69	0.00	2	0.0	0	PASS
127	198	10	80	51.0	31683	PASS
197	198	0.00	2	0.4	245	PASS
198	198	100	100	100.0	62093	PASS
199	198	5	9	6.4	3981	PASS
275	198	10	60	29.9	18581	PASS
365	198	1	100	3.8	2356	PASS
441	198	0.01	100	17.3	10730	PASS
442	442	50	100	100.0	64243	PASS
443	442	15	24	19.4	12462	PASS

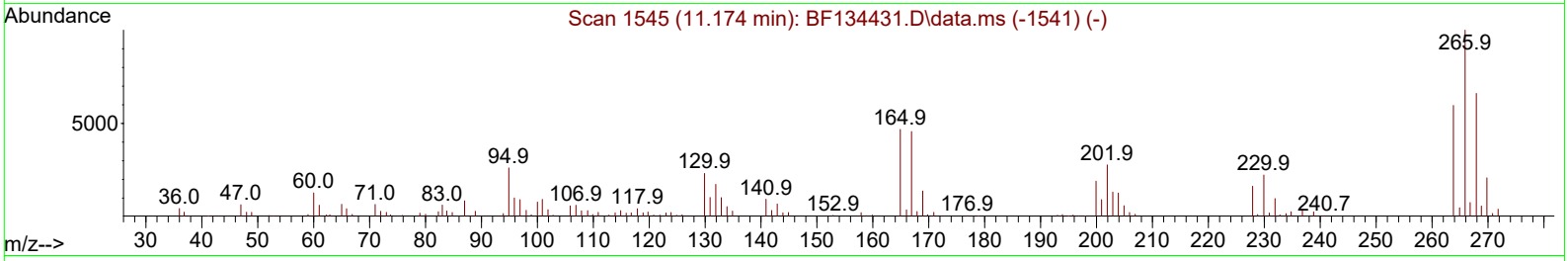
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF072423\
Data File : BF134425.D
Acq On : 24 Jul 2023 12:41
Operator : CG\JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Jul 25 04:25:44 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF072423.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 25 01:46:04 2023
Response via : Initial Calibration







TIC: BF134425.D\data.ms

(70) Pentachlorophenol (C)

11.175min (+ 0.001) 37497.50 ng

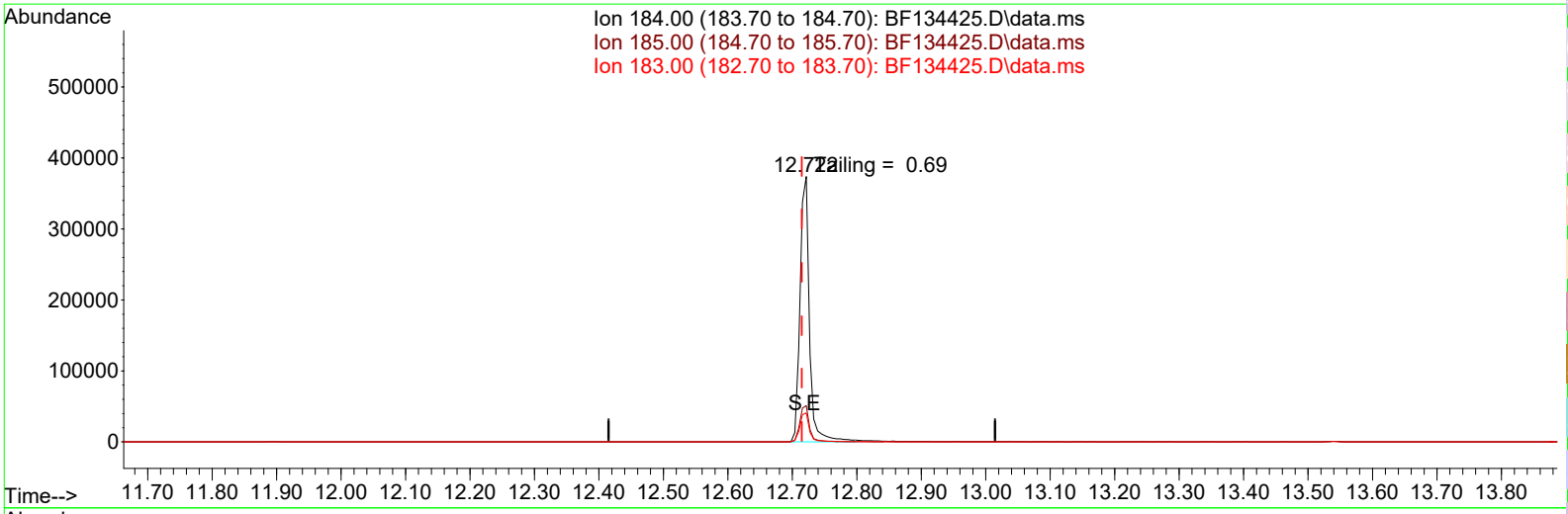
response 54169

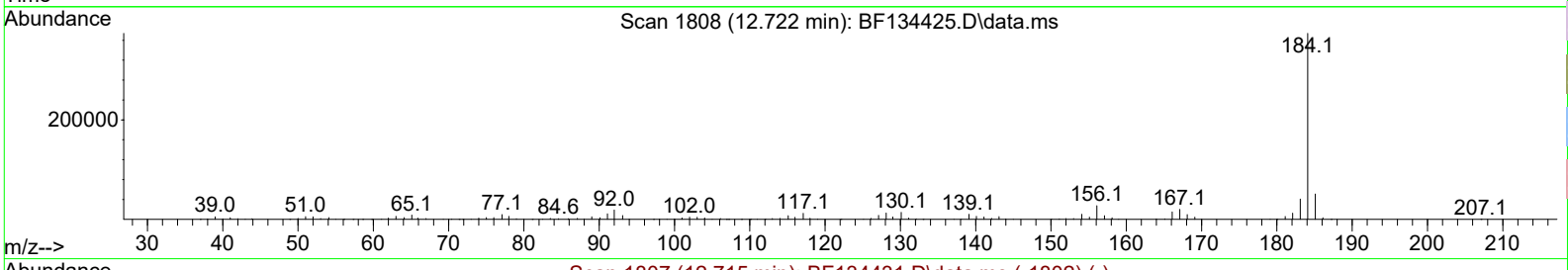
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	66.10	63.30
264.00	59.70	60.17
0.00	0.00	0.00

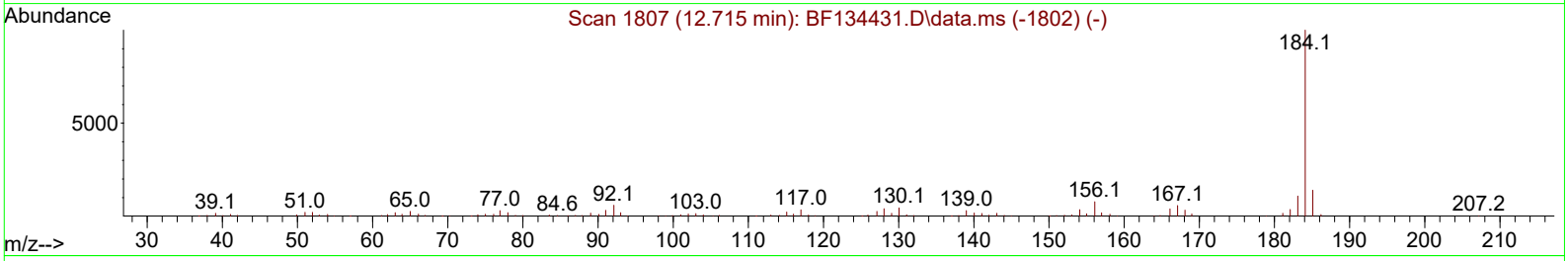
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF072423\
Data File : BF134425.D
Acq On : 24 Jul 2023 12:41
Operator : CG\JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Jul 25 04:25:44 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF072423.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 25 01:46:04 2023
Response via : Initial Calibration







TIC: BF134425.D\data.ms

(77) Benzidine

12.722min (+ 0.007) 340931.88 ng

response 385818

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	14.00	13.66
183.00	10.80	10.94
0.00	0.00	0.00

Instrument :
BNA_F
ClientSampleId :
DFTPP

DDT Breakdown

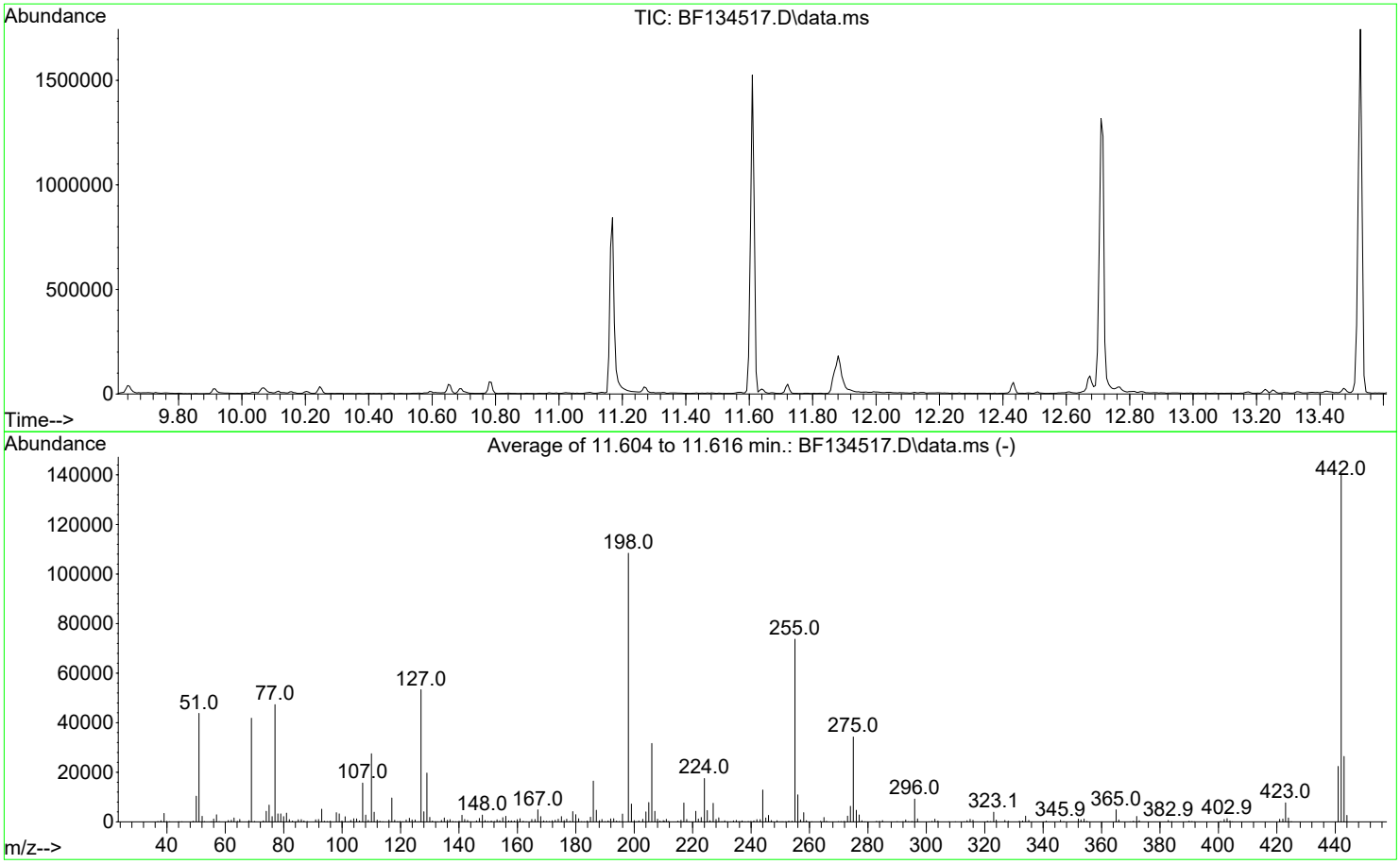
Date	Instrument Name	DFTPP Data File
7/24/2023	BNA_F	BF134425.D
Compound Name	**Response**	**Retention Time**
DDT	169209	13.539
DDD	2179	13.269
DDE	0	12.91
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
2179	171388	1.27

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF072823\
Data File : BF134517.D
Acq On : 28 Jul 2023 15:21
Operator : CG\JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF072423.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Jul 27 12:16:03 2023



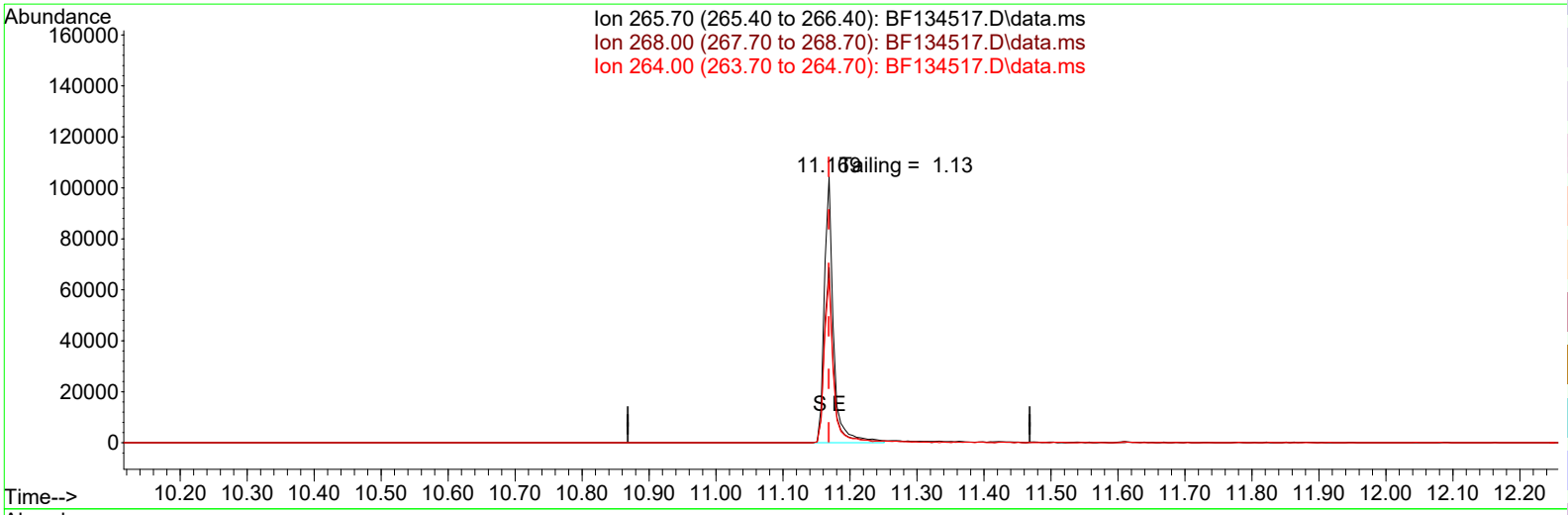
AutoFind: Scans 1618, 1619, 1620; Background Corrected with Scan 1613

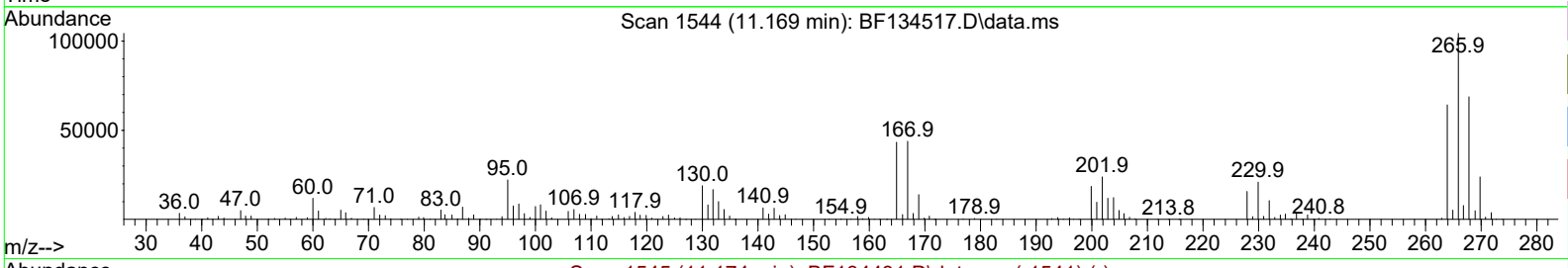
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	40.4	43795	PASS
68	69	0.00	2	1.1	472	PASS
69	198	0.00	100	38.6	41834	PASS
70	69	0.00	2	0.5	193	PASS
127	198	10	80	49.2	53339	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	108419	PASS
199	198	5	9	6.6	7185	PASS
275	198	10	60	31.6	34291	PASS
365	198	1	100	4.5	4895	PASS
441	198	0.01	100	20.7	22396	PASS
442	442	50	100	100.0	140157	PASS
443	442	15	24	18.8	26379	PASS

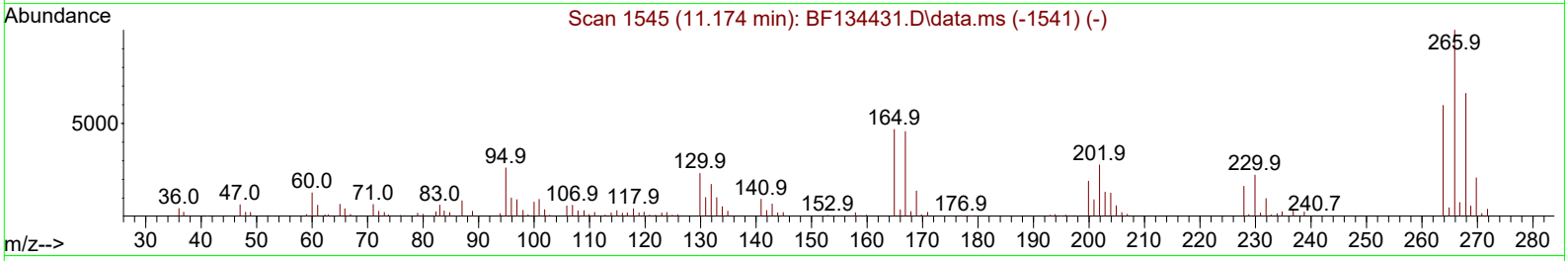
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF072823\
Data File : BF134517.D
Acq On : 28 Jul 2023 15:21
Operator : CG\JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Jul 29 05:29:18 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF072423.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jul 27 12:16:03 2023
Response via : Initial Calibration







TIC: BF134517.D\data.ms

(70) Pentachlorophenol (C)

11.169min (+ 0.000) 38107.55 ng

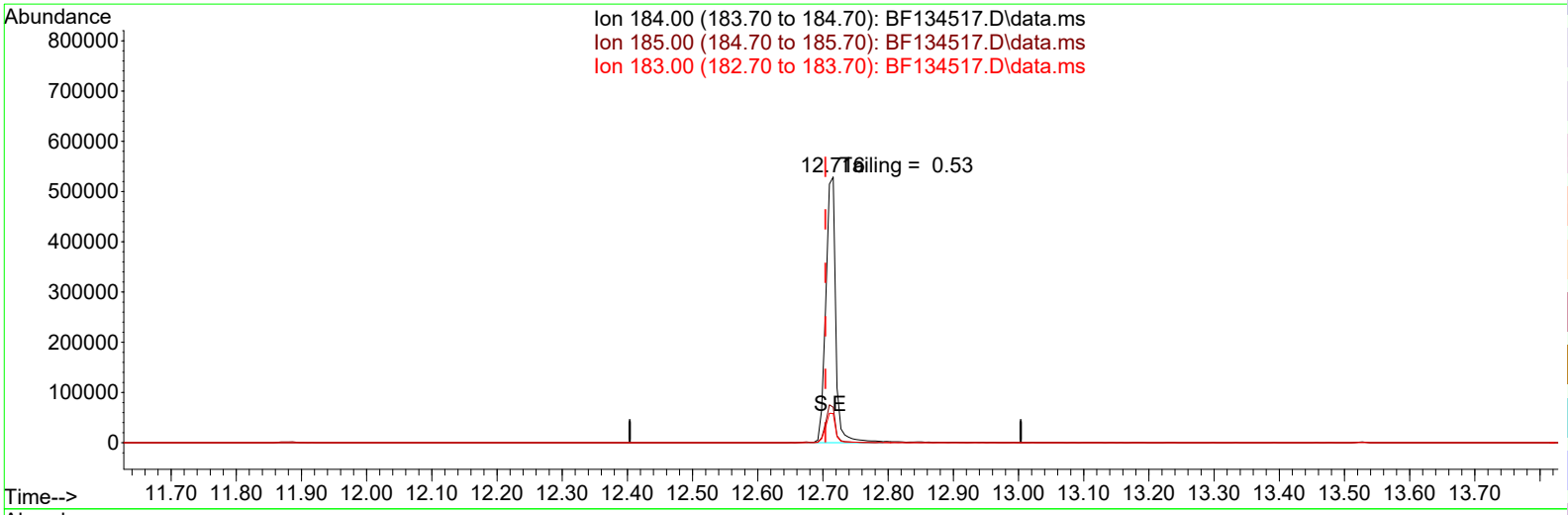
response 99643

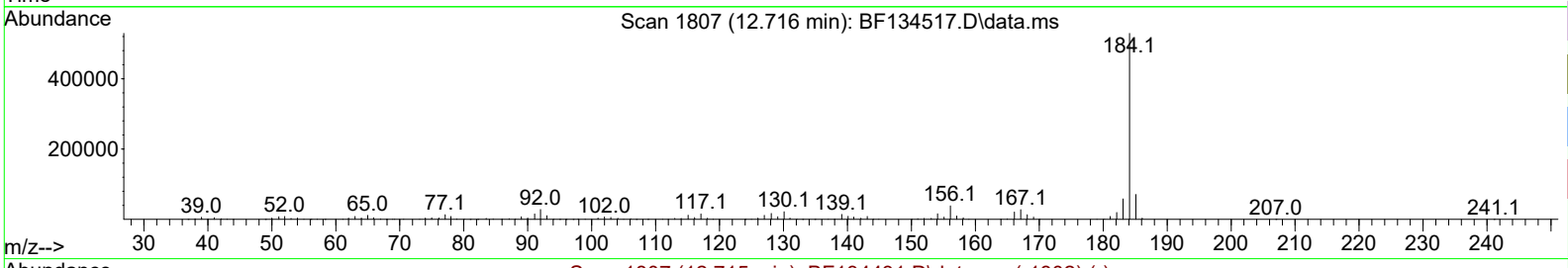
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	66.10	65.97
264.00	59.70	61.59
0.00	0.00	0.00

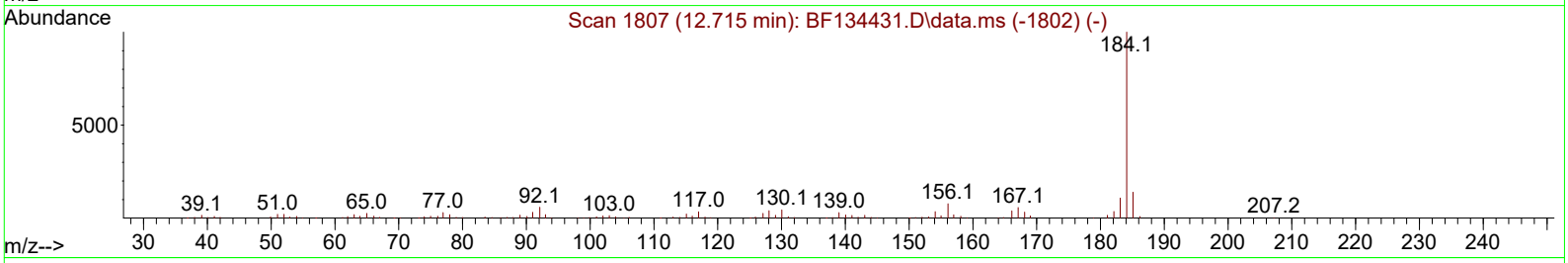
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF072823\
Data File : BF134517.D
Acq On : 28 Jul 2023 15:21
Operator : CG\JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Jul 29 05:29:18 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF072423.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jul 27 12:16:03 2023
Response via : Initial Calibration







TIC: BF134517.D\data.ms

(77) Benzidine

12.716min (+ 0.012) 0.00 ng

response 563543

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	14.00	13.39
183.00	10.80	10.98
0.00	0.00	0.00

Instrument :
BNA_F
ClientSampleId :
DFTPP

DDT Breakdown

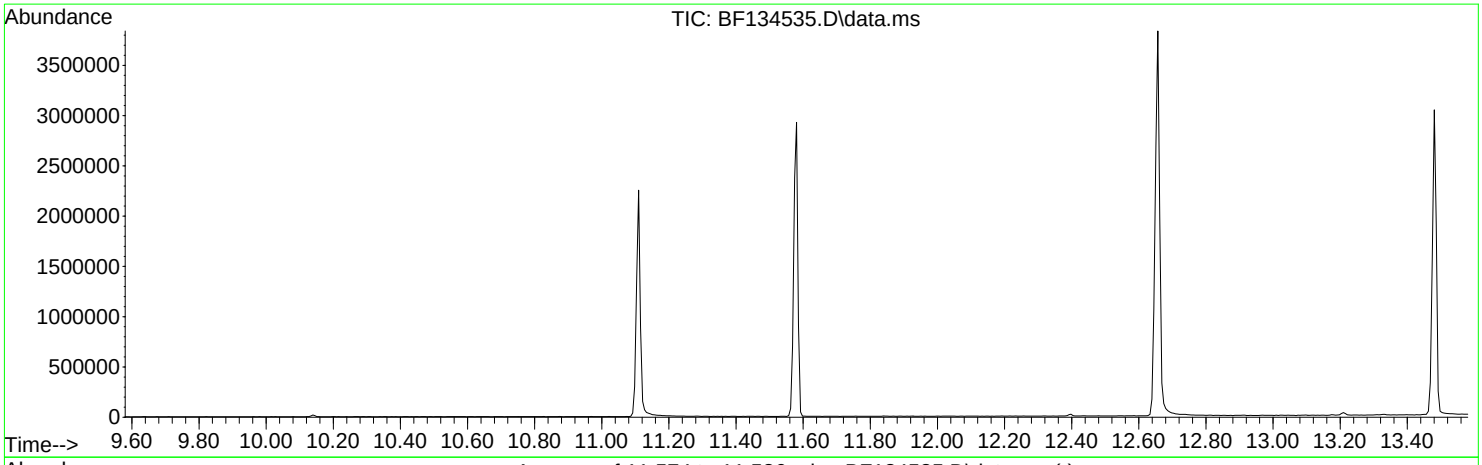
Date	Instrument Name	DFTPP Data File
7/28/2023	BNA_F	BF134517.D
Compound Name	**Response**	**Retention Time**
DDT	286144	13.527
DDD	6395	13.227
DDE	53	12.886
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
6448	292592	2.20

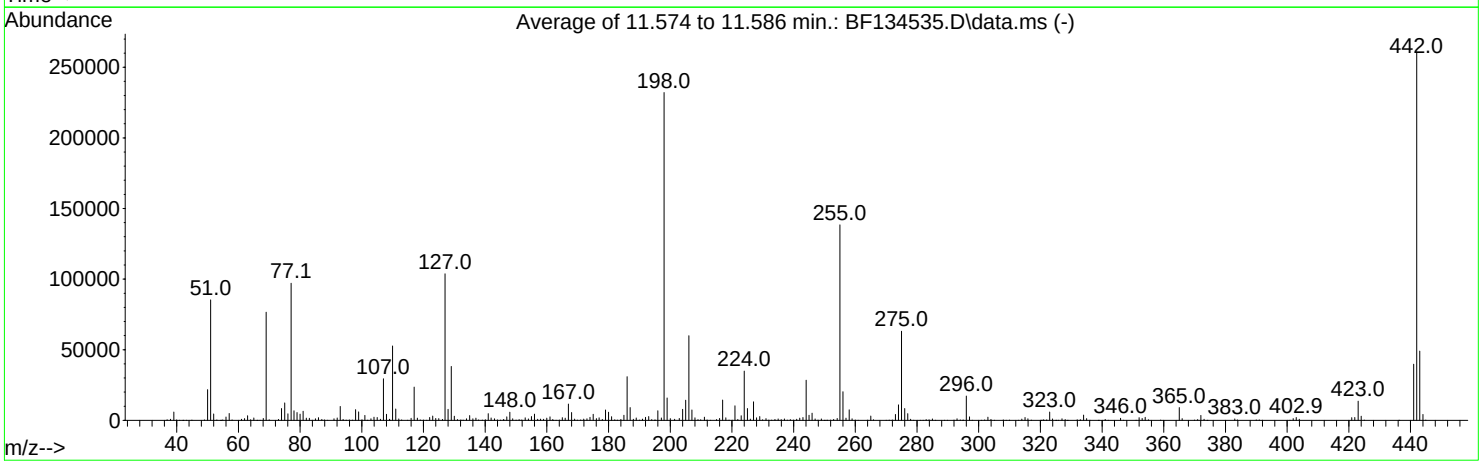
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080123\
Data File : BF134535.D
Acq On : 01 Aug 2023 07:20
Operator : CG\JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Aug 02 02:20:34 2023





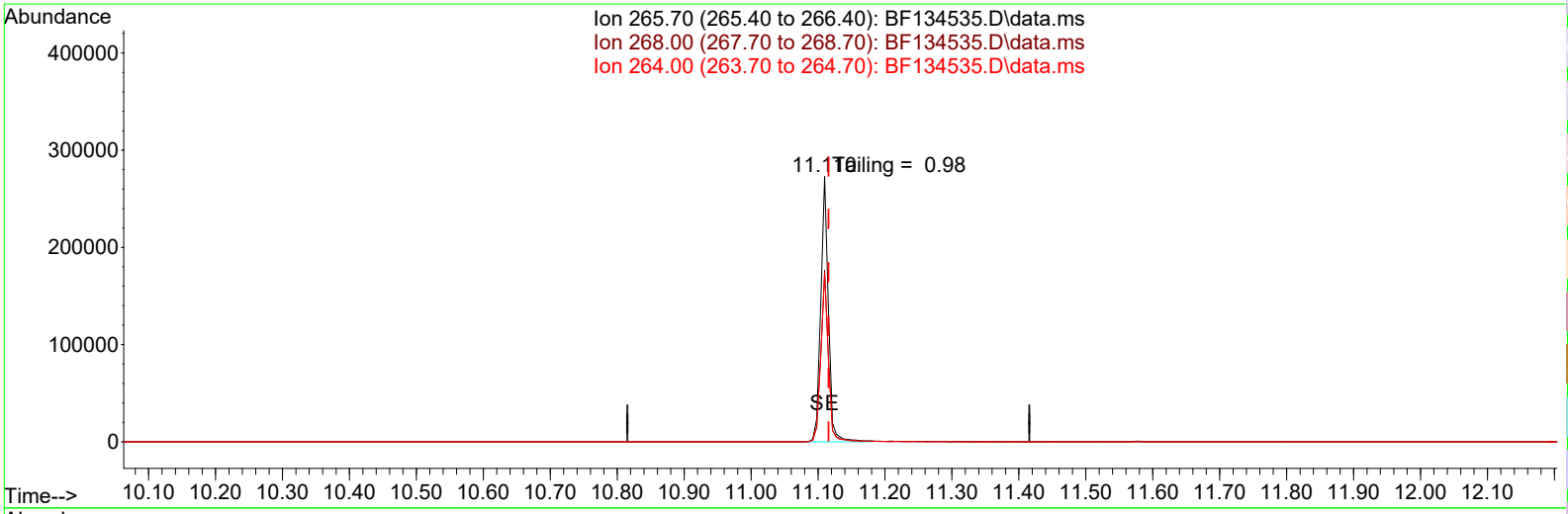
AutoFind: Scans 1613, 1614, 1615; Background Corrected with Scan 1607

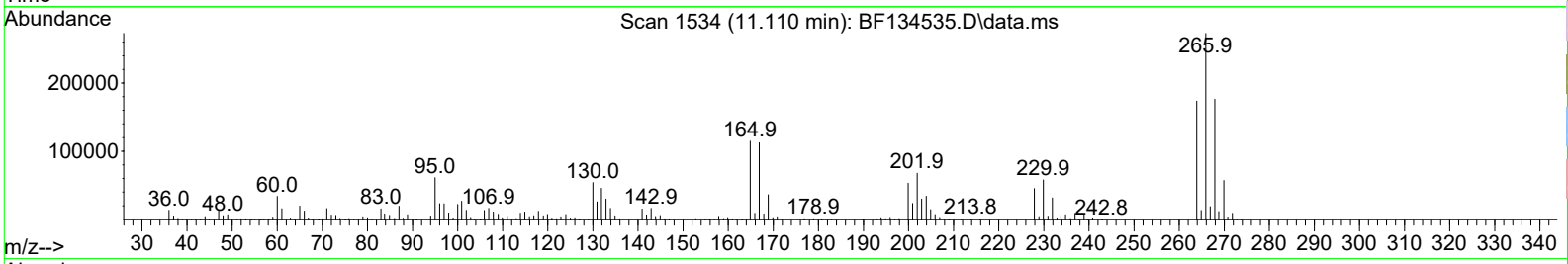
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	36.8	85351	PASS
68	69	0.00	2	1.8	1385	PASS
69	198	0.00	100	33.0	76597	PASS
70	69	0.00	2	0.7	501	PASS
127	198	10	80	44.7	103757	PASS
197	198	0.00	2	0.8	1744	PASS
198	198	100	100	100.0	232184	PASS
199	198	5	9	6.8	15885	PASS
275	198	10	60	27.2	63099	PASS
365	198	1	100	3.9	9066	PASS
441	198	0.01	100	17.1	39813	PASS
442	442	50	100	100.0	260459	PASS
443	442	15	24	18.8	49024	PASS

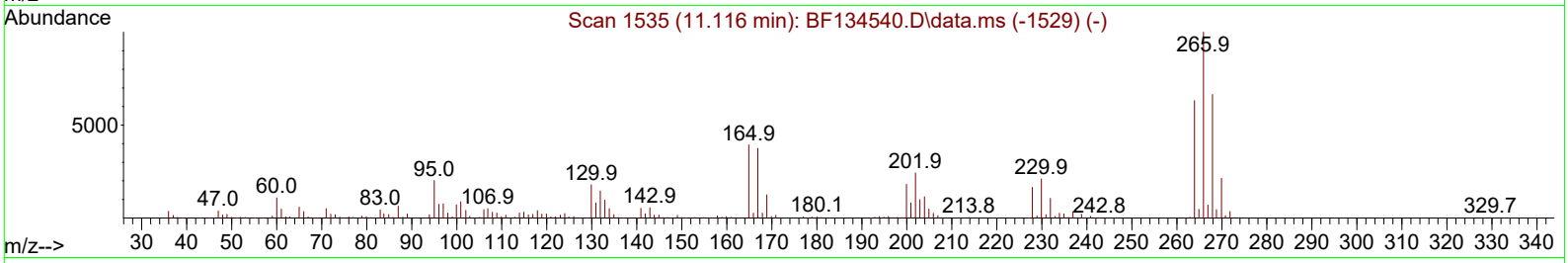
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080123\
Data File : BF134535.D
Acq On : 01 Aug 2023 07:20
Operator : CG\JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Aug 02 02:26:34 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 02 02:20:34 2023
Response via : Initial Calibration







TIC: BF134535.D\data.ms

(70) Pentachlorophenol (C)

11.110min (-0.006) 31442.83 ng

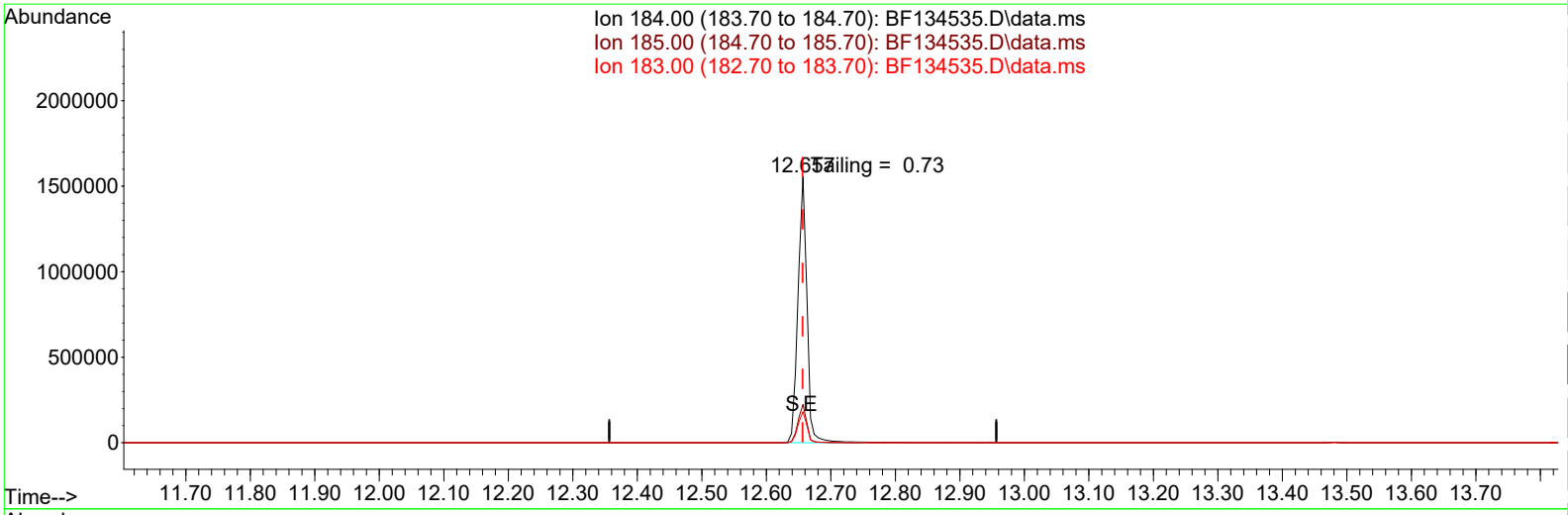
response 218296

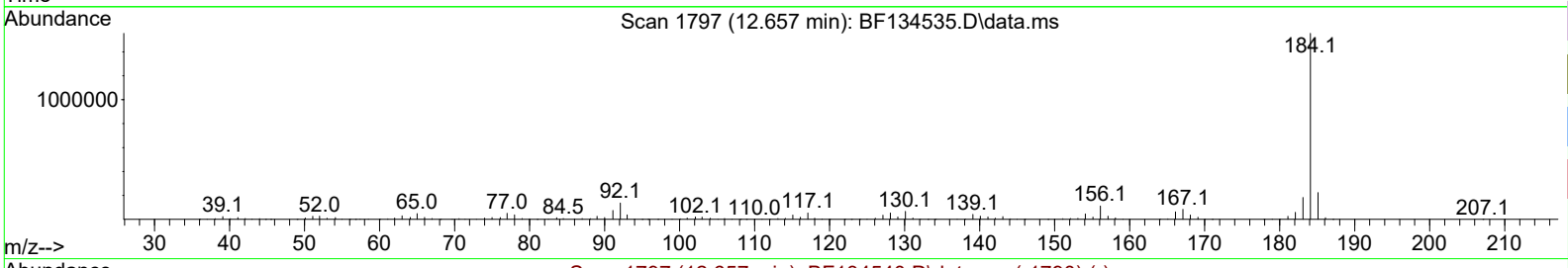
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	66.10	64.63
264.00	59.70	63.59
0.00	0.00	0.00

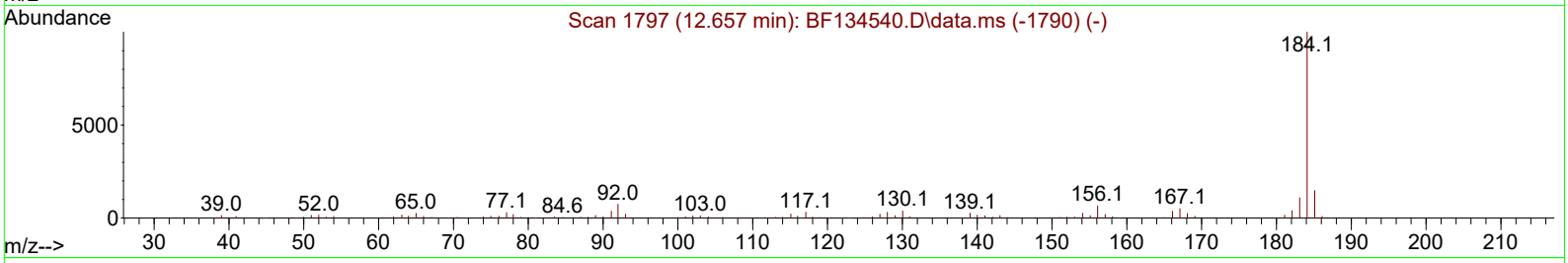
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080123\
Data File : BF134535.D
Acq On : 01 Aug 2023 07:20
Operator : CG\JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Aug 02 02:26:34 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 02 02:20:34 2023
Response via : Initial Calibration







TIC: BF134535.D\data.ms

(77) Benzidine

12.657min (+ 0.000) 0.00 ng

response 1518267

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	14.00	14.40
183.00	10.80	11.72
0.00	0.00	0.00

Instrument :
BNA_F
ClientSampleId :
DFTPP

DDT Breakdown

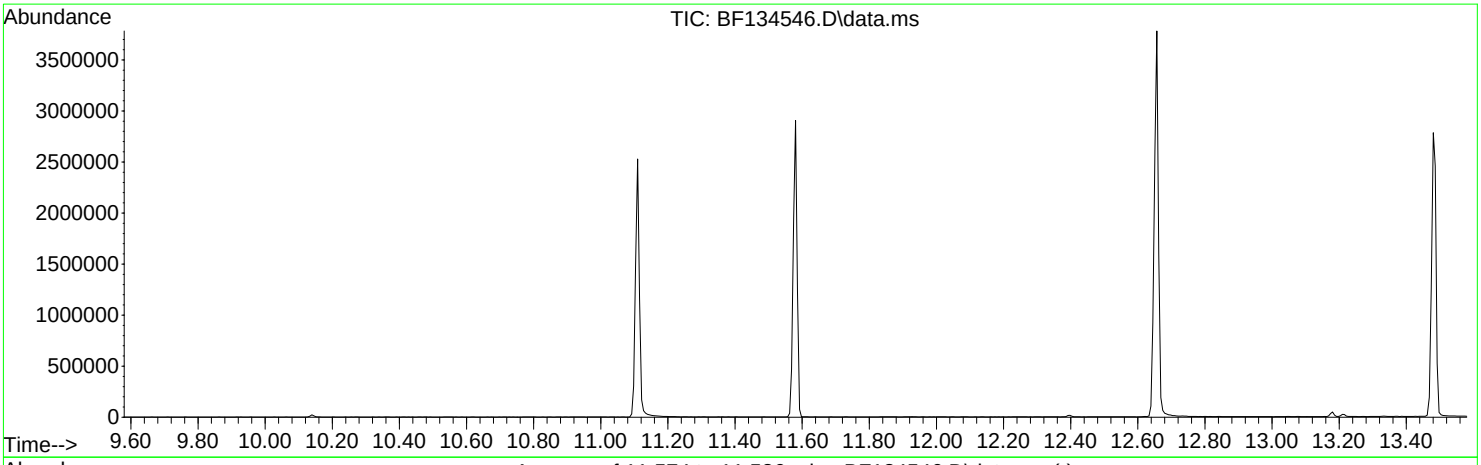
Date	Instrument Name	DFTPP Data File
8/1/2023	BNA_F	BF134535.D
Compound Name	**Response**	**Retention Time**
DDT	422953	13.48
DDD	3615	13.21
DDE		12.845
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
3615	426568	0.85

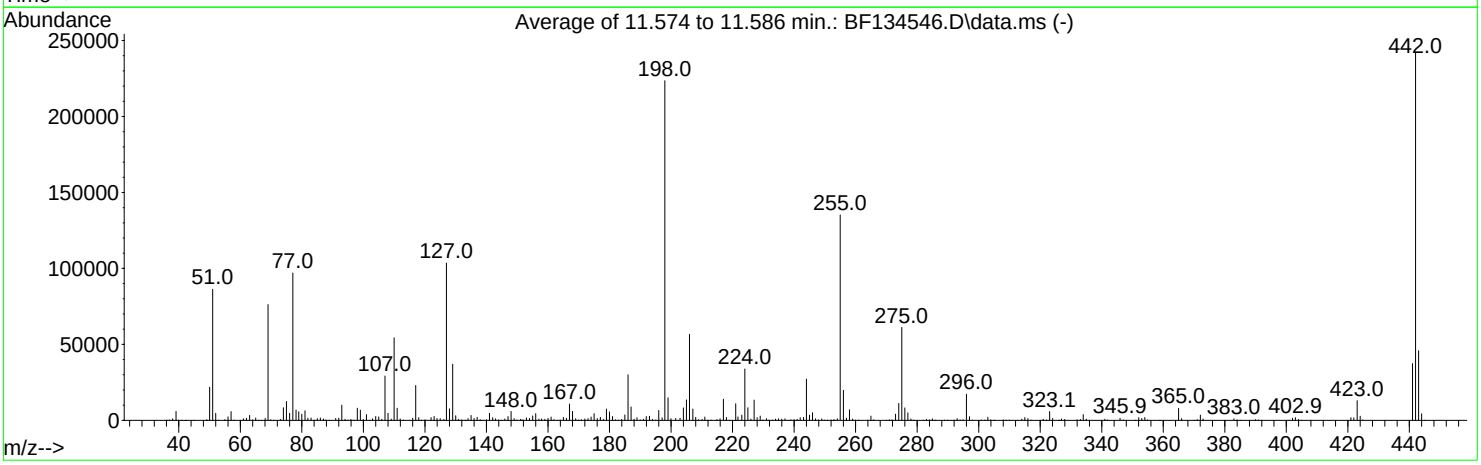
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080123\
Data File : BF134546.D
Acq On : 01 Aug 2023 13:54
Operator : CG\JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Aug 02 02:20:34 2023





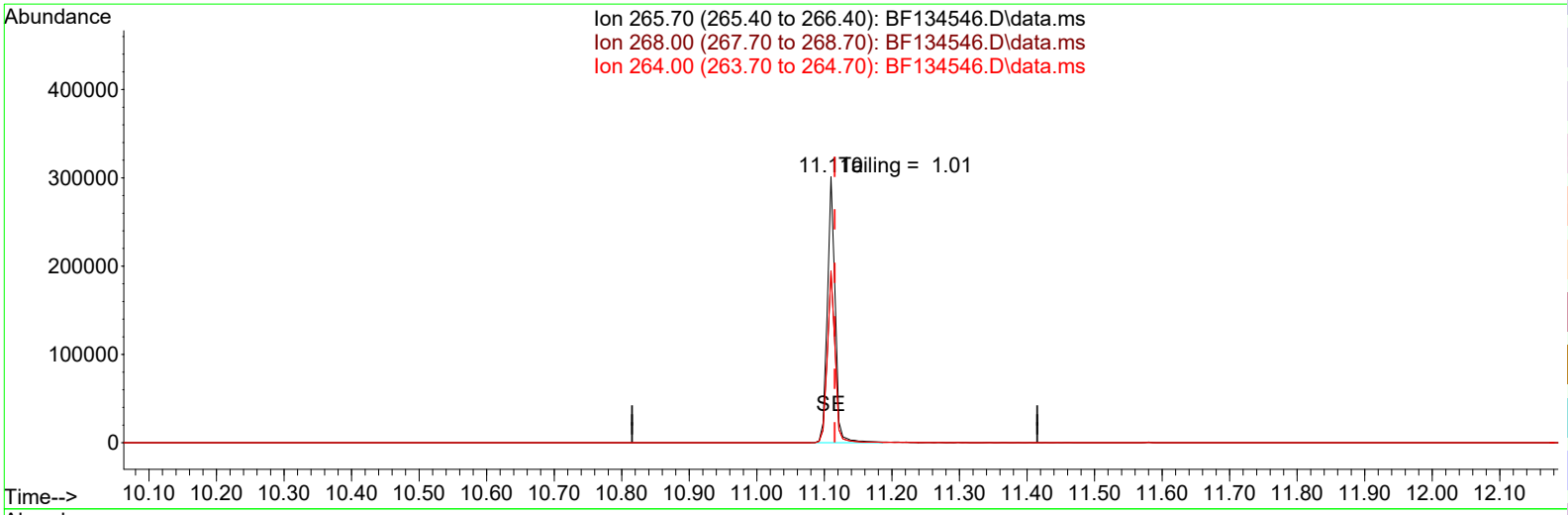
AutoFind: Scans 1613, 1614, 1615; Background Corrected with Scan 1607

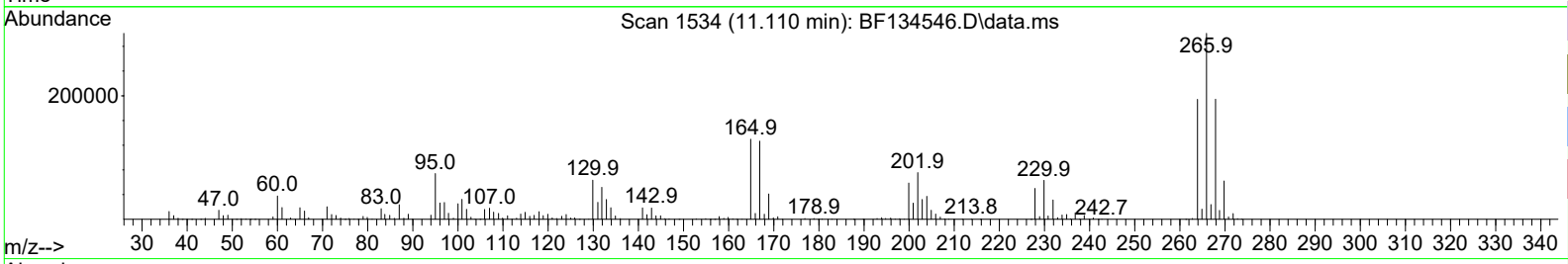
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	38.6	86294	PASS
68	69	0.00	2	1.7	1319	PASS
69	198	0.00	100	34.1	76248	PASS
70	69	0.00	2	0.5	416	PASS
127	198	10	80	46.3	103560	PASS
197	198	0.00	2	0.8	1718	PASS
198	198	100	100	100.0	223547	PASS
199	198	5	9	6.6	14851	PASS
275	198	10	60	27.4	61155	PASS
365	198	1	100	3.5	7916	PASS
441	198	0.01	100	16.7	37376	PASS
442	442	50	100	100.0	242109	PASS
443	442	15	24	18.9	45819	PASS

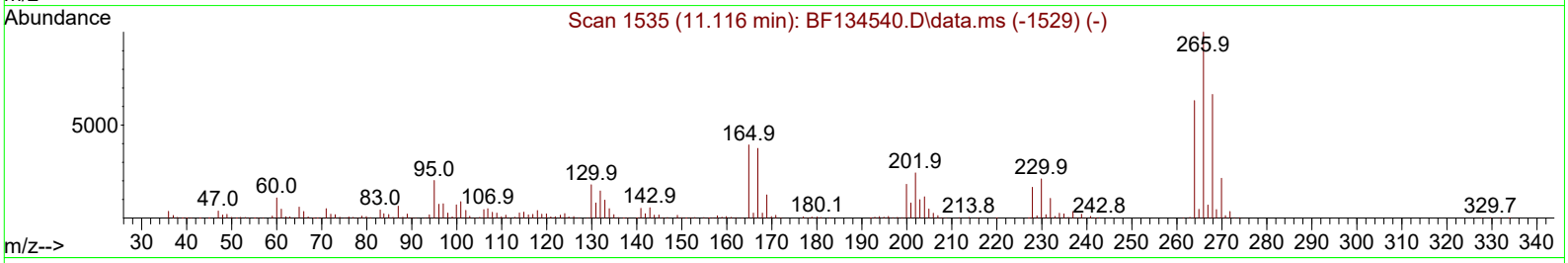
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080123\
Data File : BF134546.D
Acq On : 01 Aug 2023 13:54
Operator : CG\JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Aug 02 04:17:26 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 02 02:20:34 2023
Response via : Initial Calibration







TIC: BF134546.D\data.ms

(70) Pentachlorophenol (C)

11.110min (-0.006) 576934.29 ng

response 243630

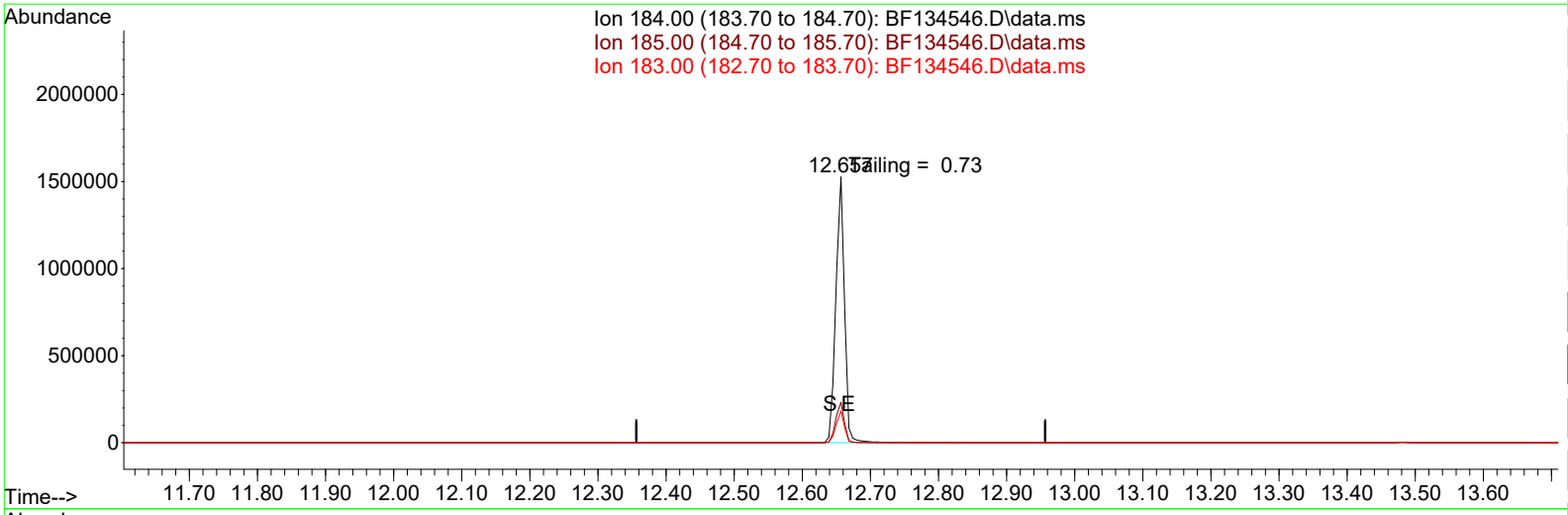
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	66.10	64.58
264.00	59.70	64.50
0.00	0.00	0.00

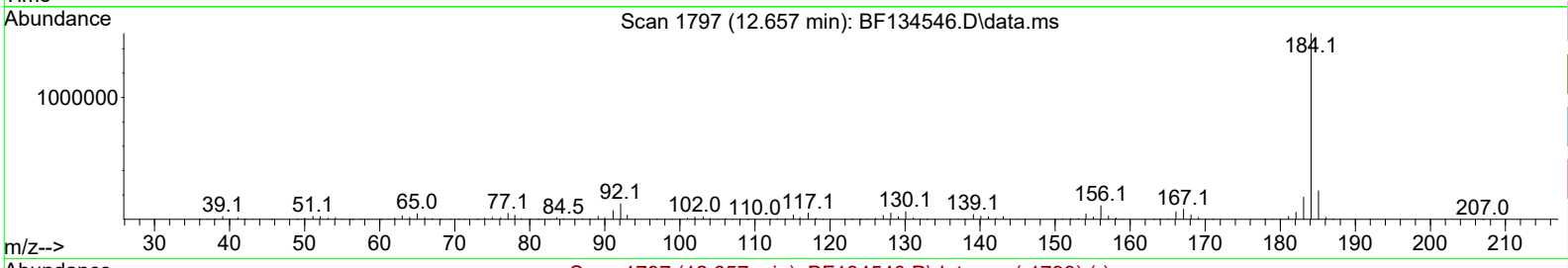
Sample Results: **BF134546.D**

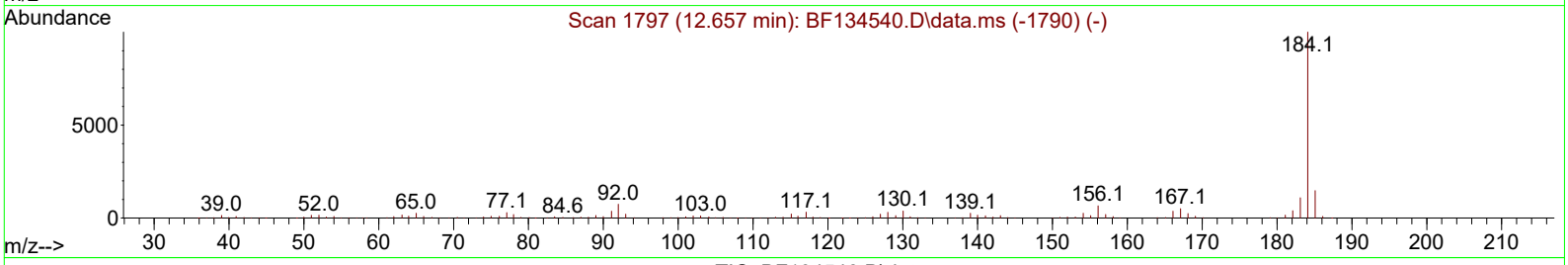
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080123\
Data File : BF134546.D
Acq On : 01 Aug 2023 13:54
Operator : CG\JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Aug 02 04:17:26 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 02 02:20:34 2023
Response via : Initial Calibration







TIC: BF134546.D\data.ms

(77) Benzidine

12.657min (-12.657) 0.00 ng

response 0

Ion	Exp%	Act%
184.00	100.00	0.00
185.00	14.00	0.00#
183.00	10.80	0.00#
0.00	0.00	0.00

Instrument :
BNA_F
ClientSampleId :
DFTPP

DDT Breakdown

Date	Instrument Name	DFTPP Data File
8/1/2023	BNA_F	BF134546.D
Compound Name	**Response**	**Retention Time**
DDT	482479	13.48
DDD	10648	13.18
DDE	80	12.845
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
10728	493207	2.18

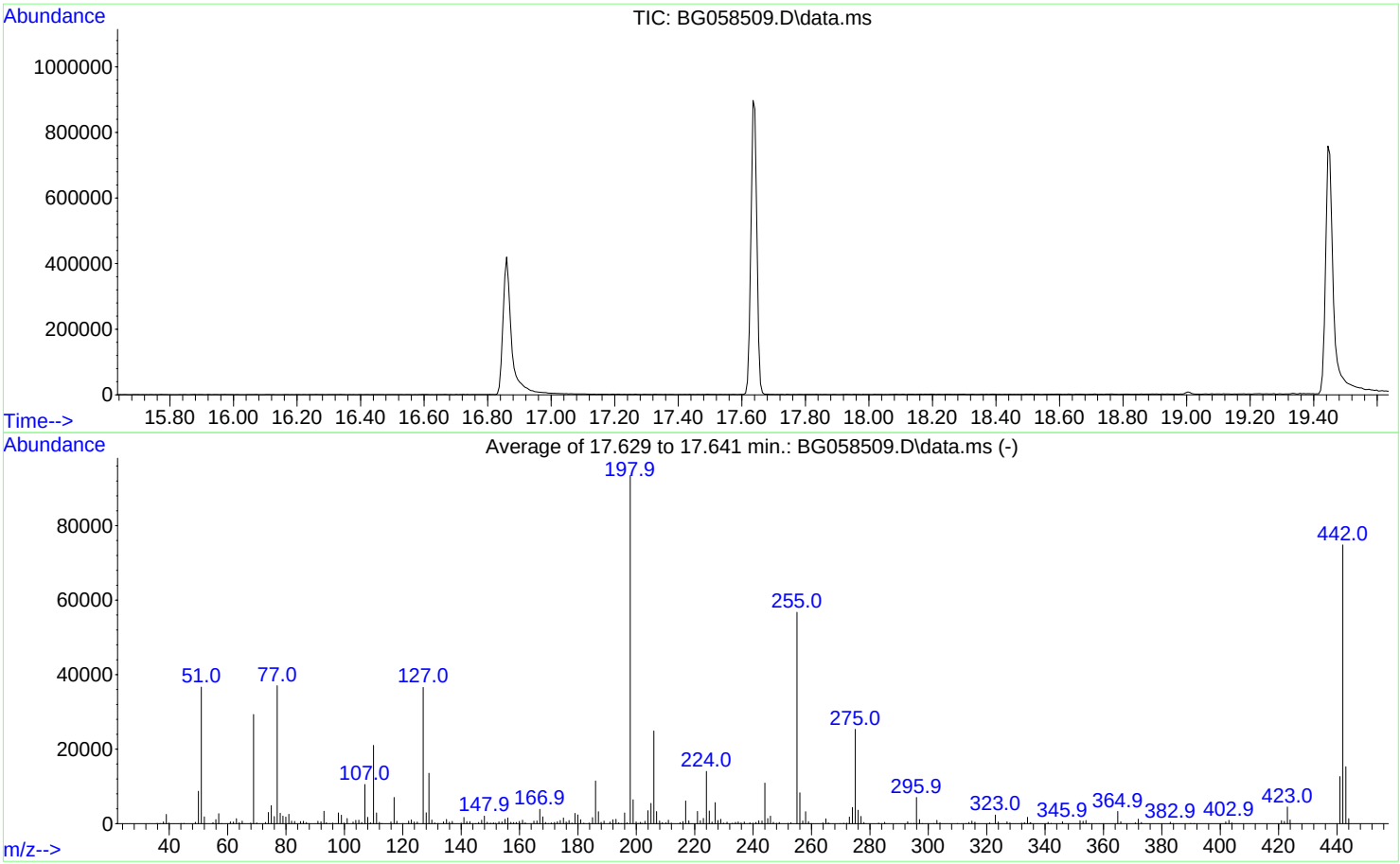
Sample Results: **BG058509.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG072823\
Data File : BG058509.D
Acq On : 28 Jul 2023 8:40
Operator : MA/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG072823.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Jul 28 22:29:07 2023



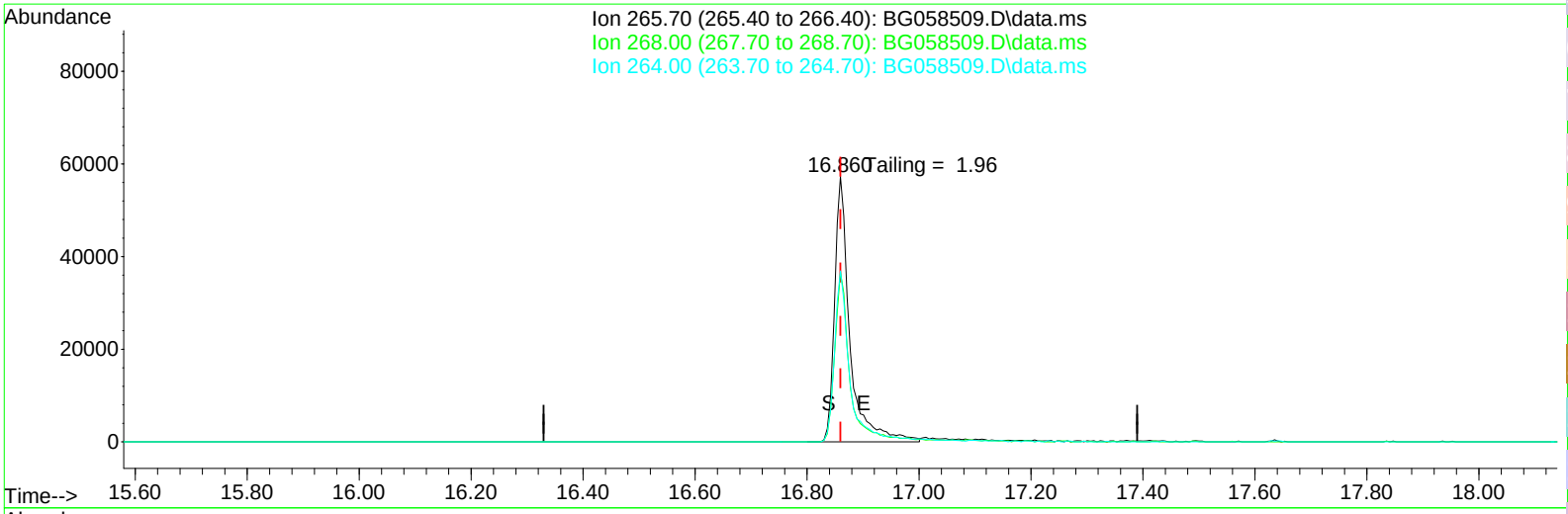
AutoFind: Scans 2475, 2476, 2477; Background Corrected with Scan 2469

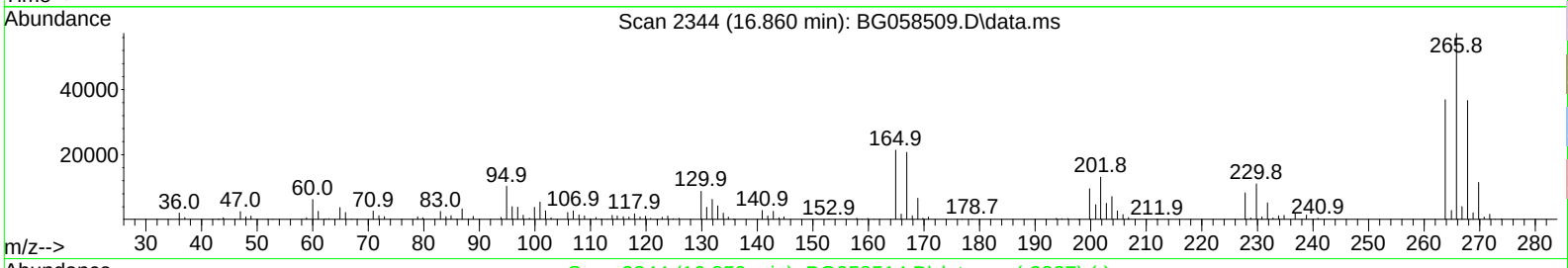
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	39.2	36656	PASS
68	69	0.00	2	0.5	145	PASS
69	198	0.00	100	31.4	29331	PASS
70	69	0.00	2	0.7	212	PASS
127	198	10	80	39.1	36589	PASS
197	198	0.00	2	0.2	230	PASS
198	198	100	100	100.0	93461	PASS
199	198	5	9	6.9	6446	PASS
275	198	10	60	27.1	25331	PASS
365	198	1	100	3.5	3287	PASS
441	198	0.01	100	13.5	12629	PASS
442	442	50	100	100.0	74859	PASS
443	442	15	24	20.4	15277	PASS

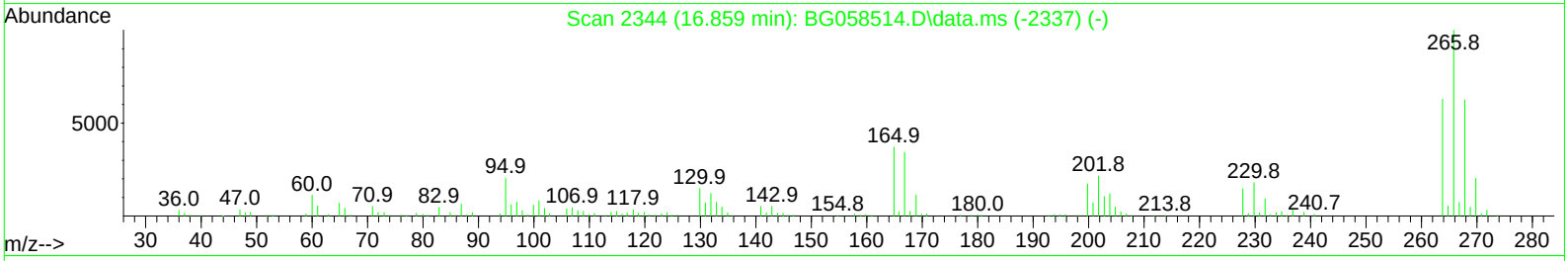
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG072823\
Data File : BG058509.D
Acq On : 28 Jul 2023 8:40
Operator : MA/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
DFTPP

Quant Time: Jul 28 15:27:08 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 28 14:44:42 2023
Response via : Initial Calibration







TIC: BG058509.D\data.ms

(70) Pentachlorophenol (C)

16.860min (+ 0.000) 26830.98 ng

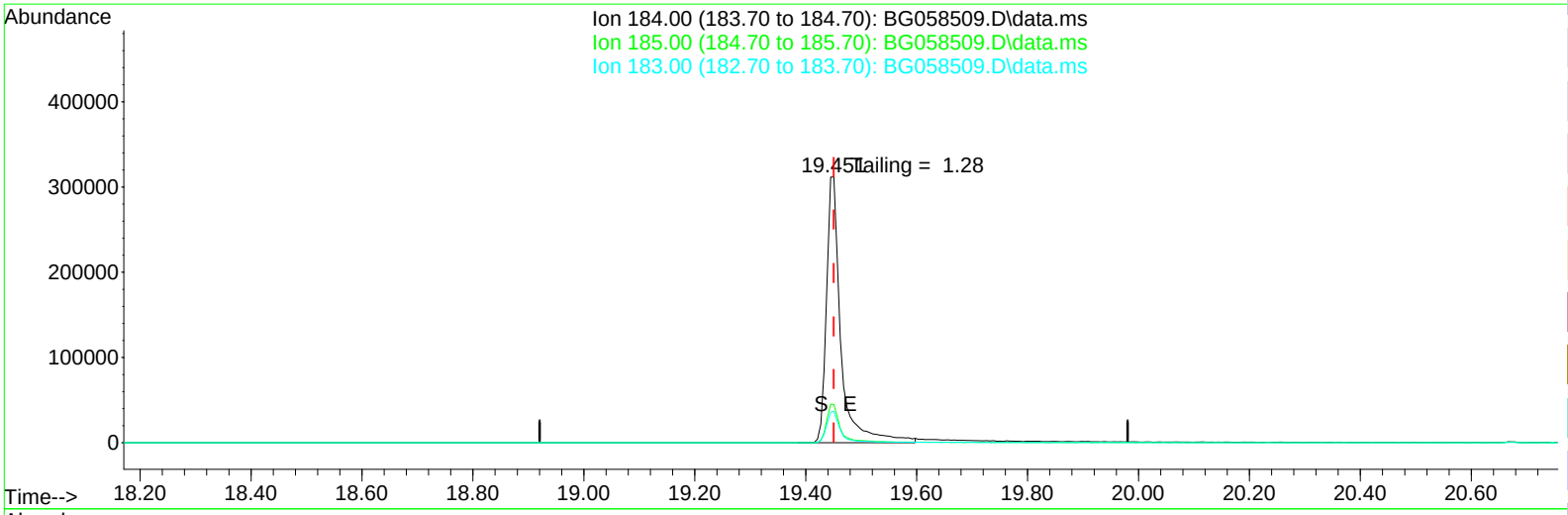
response 109111

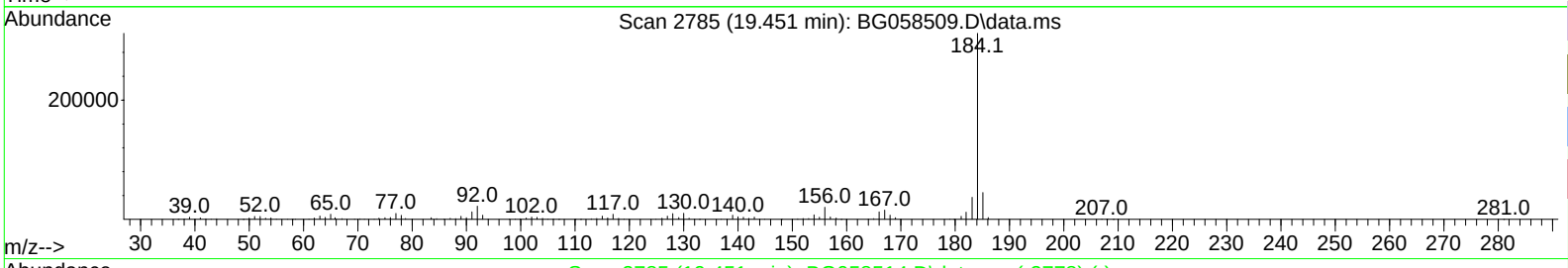
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	65.20	63.99
264.00	63.60	64.48
0.00	0.00	0.00

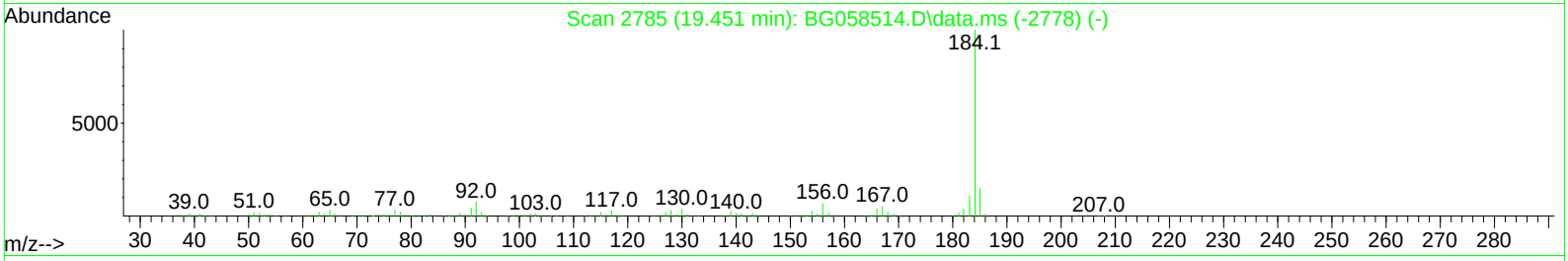
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG072823\
Data File : BG058509.D
Acq On : 28 Jul 2023 8:40
Operator : MA/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
DFTPP

Quant Time: Jul 28 15:27:08 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 28 14:44:42 2023
Response via : Initial Calibration







TIC: BG058509.D\data.ms

(77) Benzidine

19.451min (+ 0.000) 689236.40 ng

response 595742

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	14.60	14.46
183.00	11.20	11.87
0.00	0.00	0.00

Instrument :
BNA_G
ClientSampleId :
DFTPP

DDT Breakdown

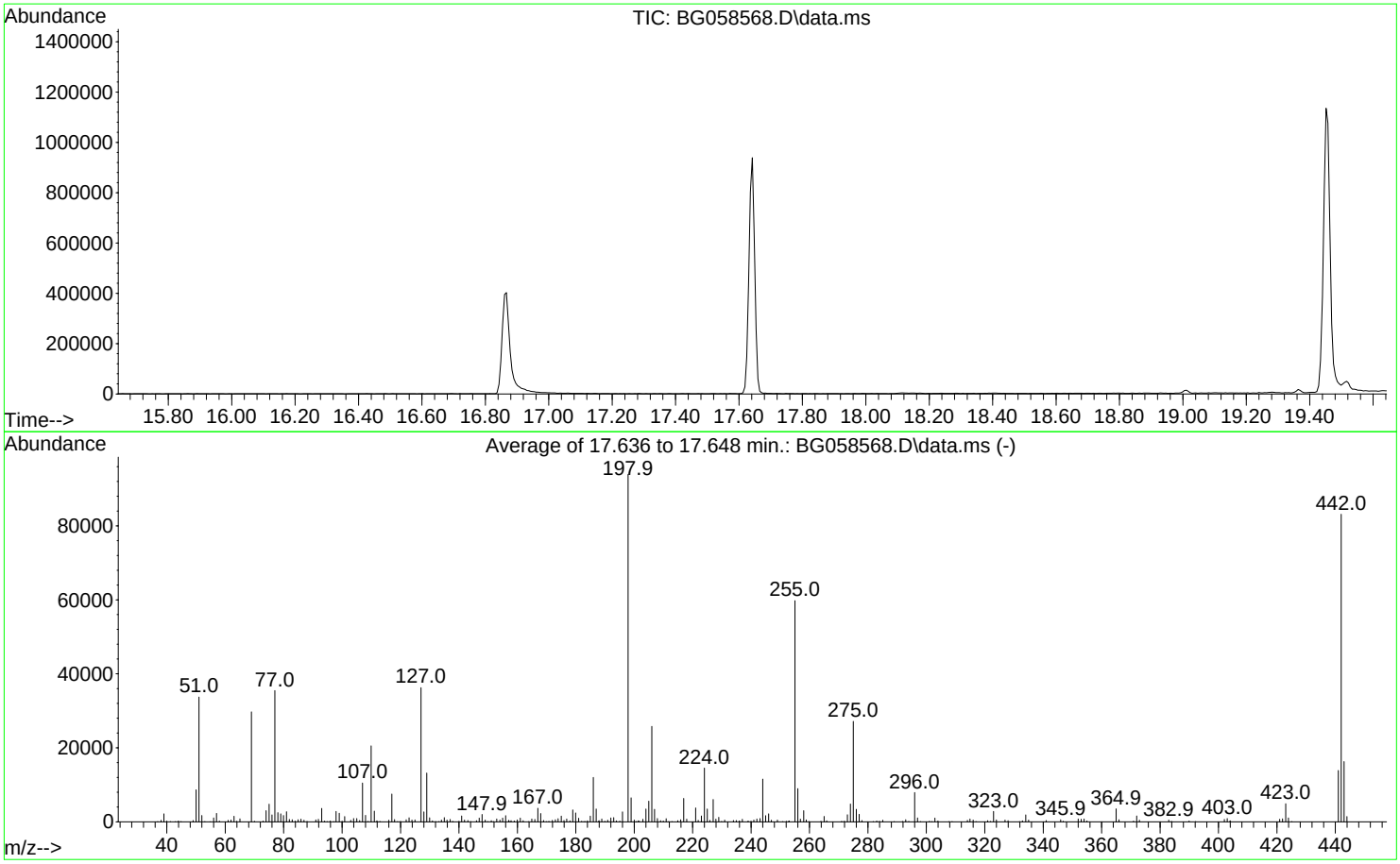
Date	Instrument Name	DFTPP Data File
7/28/2023	BNA_G	BG058509.D
Compound Name	**Response**	**Retention Time**
DDT	278134	20.673
DDD	36075	20.238
DDE	422	19.733
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
36497	314631	11.60

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG080223\
Data File : BG058568.D
Acq On : 2 Aug 2023 7:54
Operator : MA/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG072823.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Jul 28 22:29:07 2023



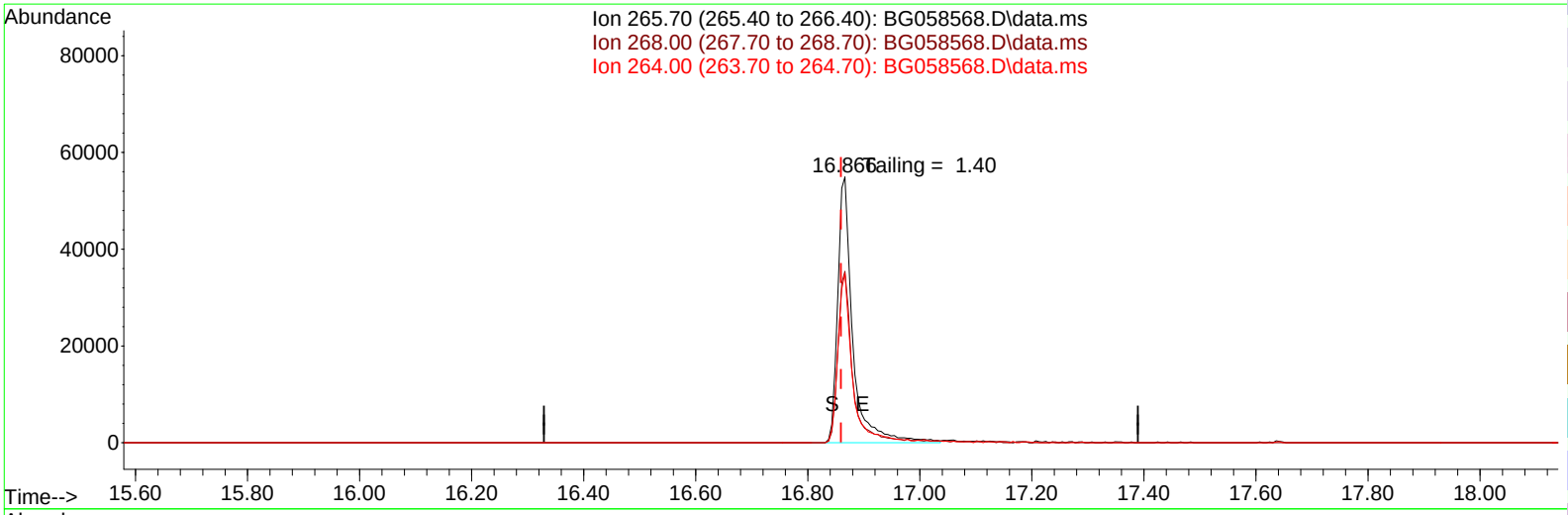
AutoFind: Scans 2476, 2477, 2478; Background Corrected with Scan 2469

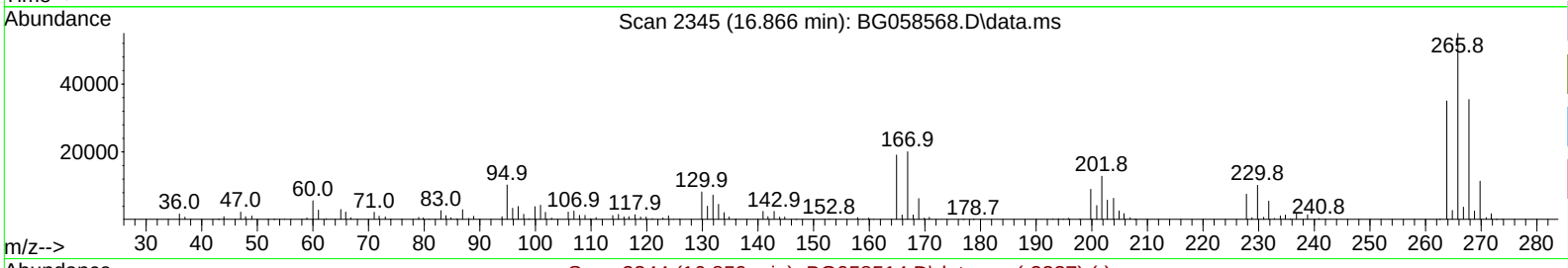
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	35.9	33704	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	31.6	29699	PASS
70	69	0.00	2	0.5	163	PASS
127	198	10	80	38.6	36264	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	93907	PASS
199	198	5	9	6.9	6476	PASS
275	198	10	60	28.9	27157	PASS
365	198	1	100	3.7	3477	PASS
441	198	0.01	100	14.8	13869	PASS
442	442	50	100	100.0	83157	PASS
443	442	15	24	19.6	16271	PASS

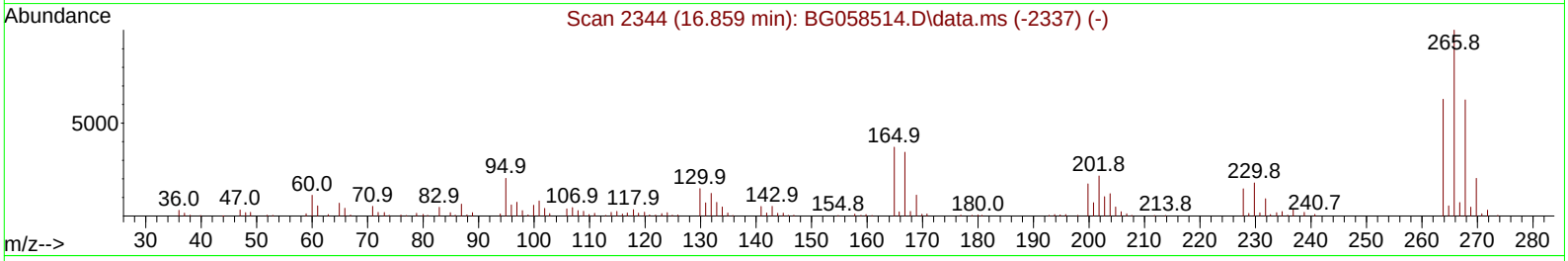
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG080223\
Data File : BG058568.D
Acq On : 2 Aug 2023 7:54
Operator : MA/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
DFTPP

Quant Time: Aug 02 13:12:58 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 28 22:29:07 2023
Response via : Initial Calibration







TIC: BG058568.D\data.ms

(70) Pentachlorophenol (C)

16.866min (+ 0.007) 24371.16 ng

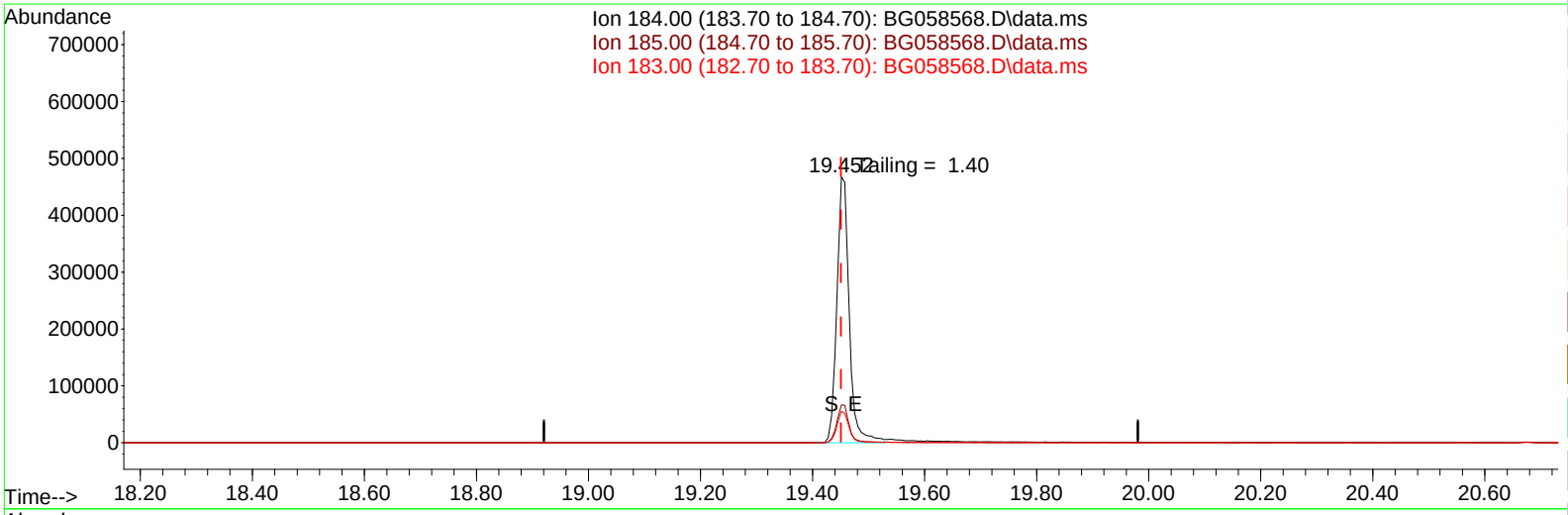
response 103007

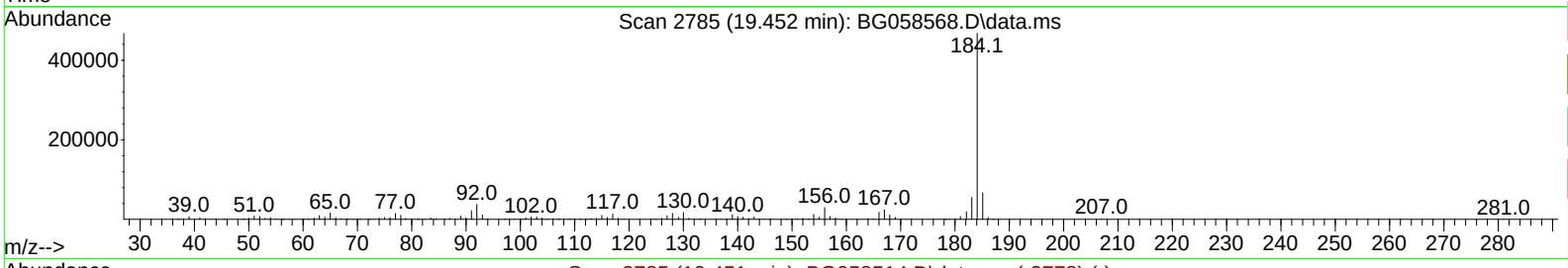
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.40	64.55
264.00	62.80	63.77
0.00	0.00	0.00

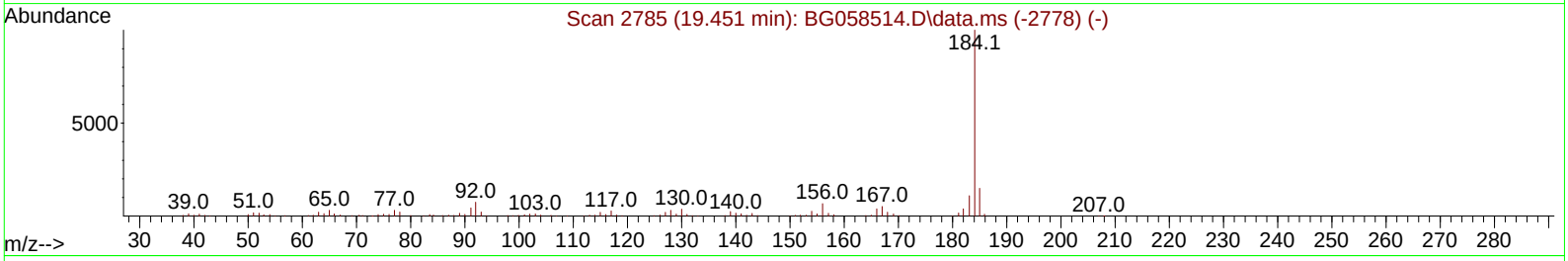
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG080223\
Data File : BG058568.D
Acq On : 2 Aug 2023 7:54
Operator : MA/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
DFTPP

Quant Time: Aug 02 13:12:58 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 28 22:29:07 2023
Response via : Initial Calibration







TIC: BG058568.D\data.ms

(77) Benzidine

19.452min (+ 0.001) 0.00 ng

response 736507

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	14.90	14.27
183.00	10.90	11.80
0.00	0.00	0.00

Instrument :
BNA_G
ClientSampleId :
DFTPP

DDT Breakdown

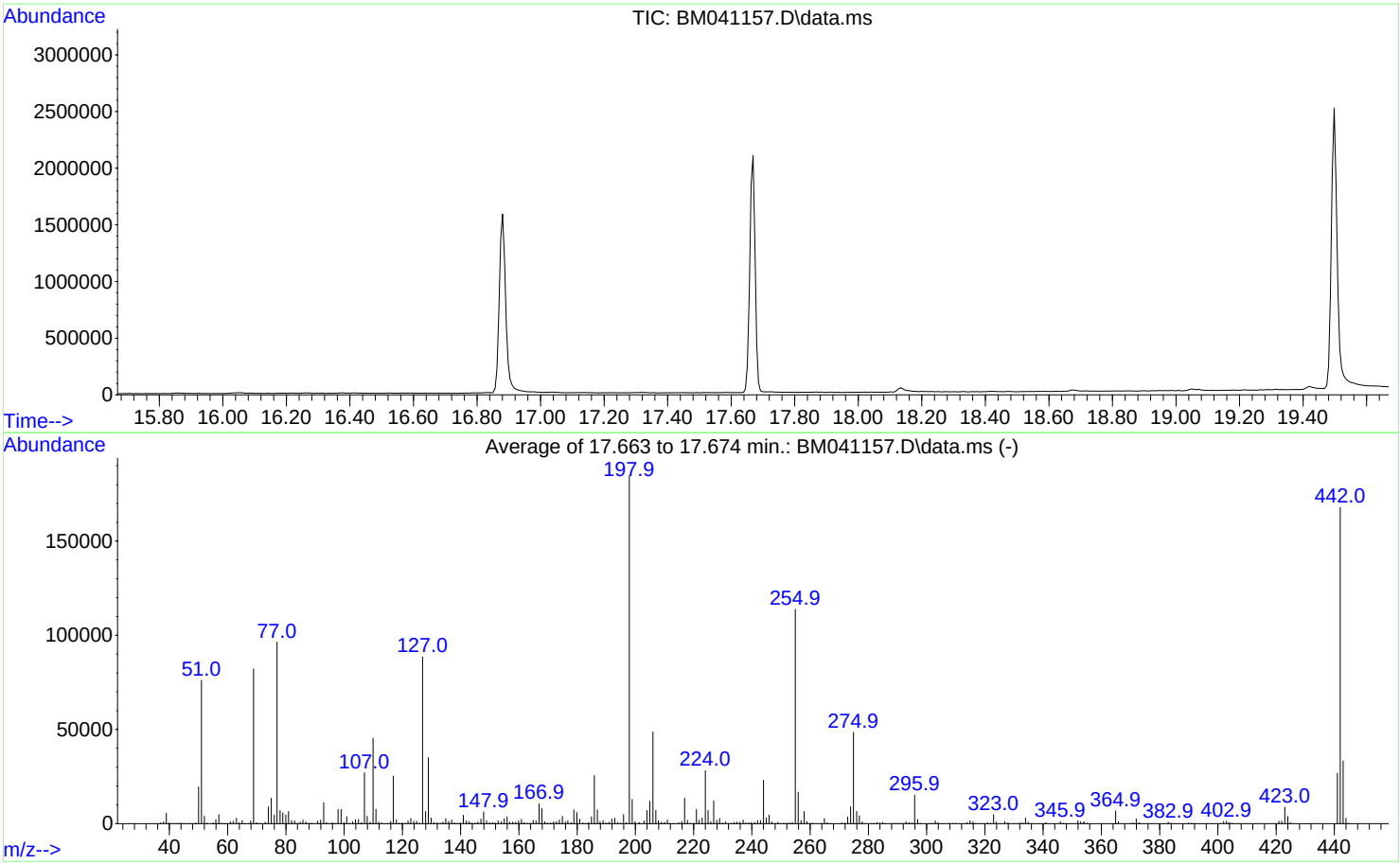
Date	Instrument Name	DFTPP Data File
8/2/2023	BNA_G	BG058568.D
Compound Name	**Response**	**Retention Time**
DDT	358023	20.674
DDD	5744	20.286
DDE	67	19.74
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
5811	363834	1.60

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM072823\
Data File : BM041157.D
Acq On : 28 Jul 2023 09:37
Operator : MA/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM072823.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Sat Jul 29 00:19:24 2023



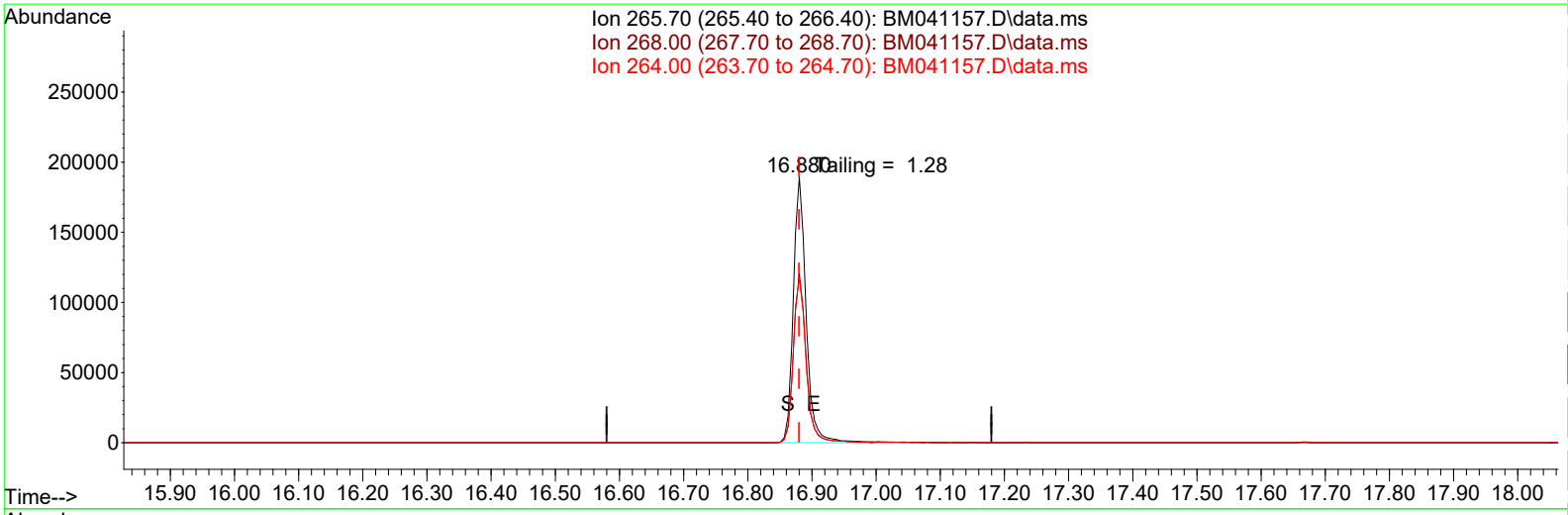
AutoFind: Scans 2461, 2462, 2463; Background Corrected with Scan 2454

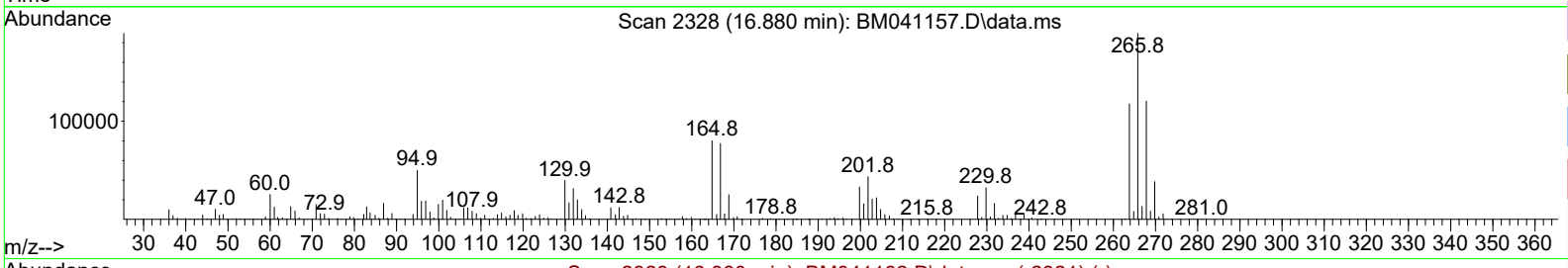
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	41.2	76123	PASS
68	69	0.00	2	1.8	1464	PASS
69	198	0.00	100	44.5	82170	PASS
70	69	0.00	2	0.7	539	PASS
127	198	10	80	47.9	88523	PASS
197	198	0.00	2	0.3	581	PASS
198	198	100	100	100.0	184811	PASS
199	198	5	9	6.9	12841	PASS
275	198	10	60	26.2	48491	PASS
365	198	1	100	3.6	6722	PASS
441	198	0.01	100	14.5	26797	PASS
442	442	50	100	100.0	167851	PASS
443	442	15	24	19.9	33379	PASS

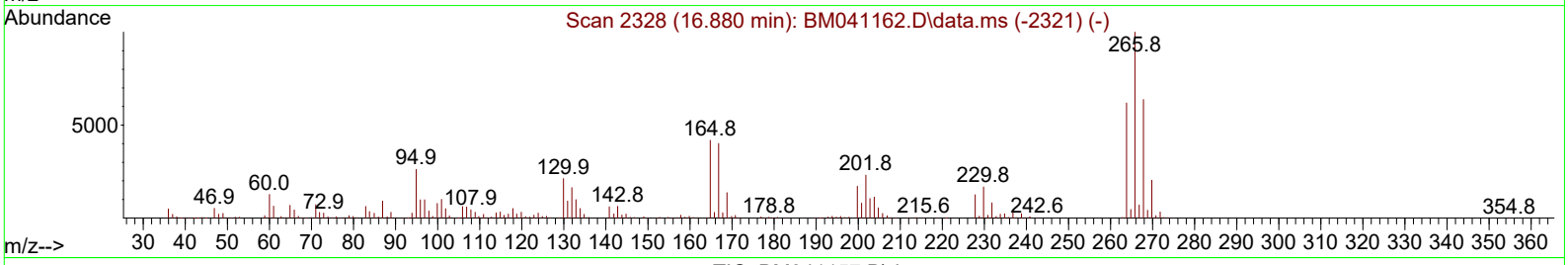
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM072823\
Data File : BM041157.D
Acq On : 28 Jul 2023 09:37
Operator : MA/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
DFTPP

Quant Time: Jul 29 04:31:06 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Jul 29 00:19:24 2023
Response via : Initial Calibration







TIC: BM041157.D\data.ms

(70) Pentachlorophenol (C)

16.880min (+ 0.000) 0.00 ng

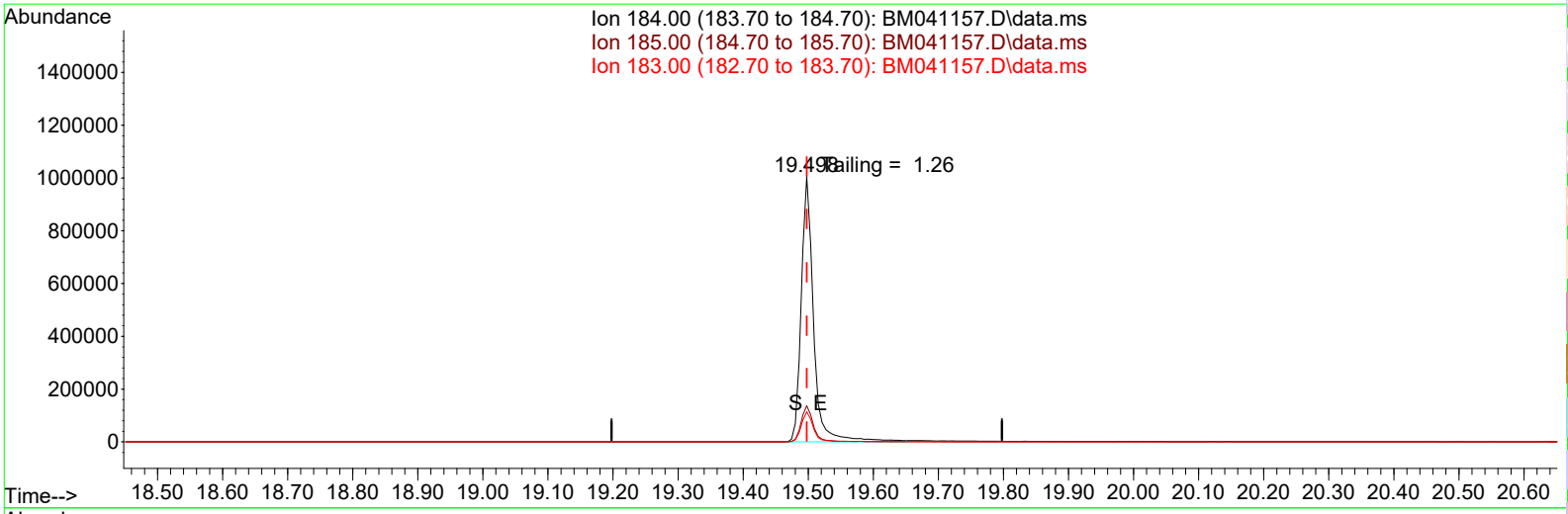
response 264374

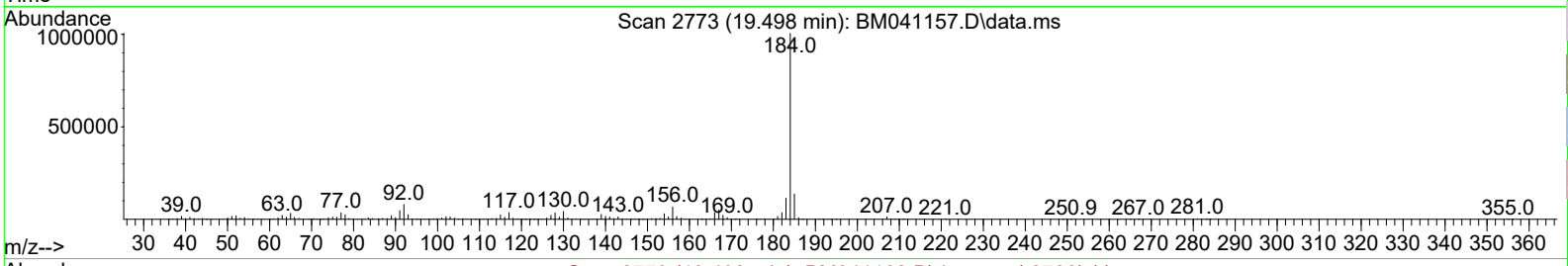
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	63.80	63.49
264.00	61.80	62.04
0.00	0.00	0.00

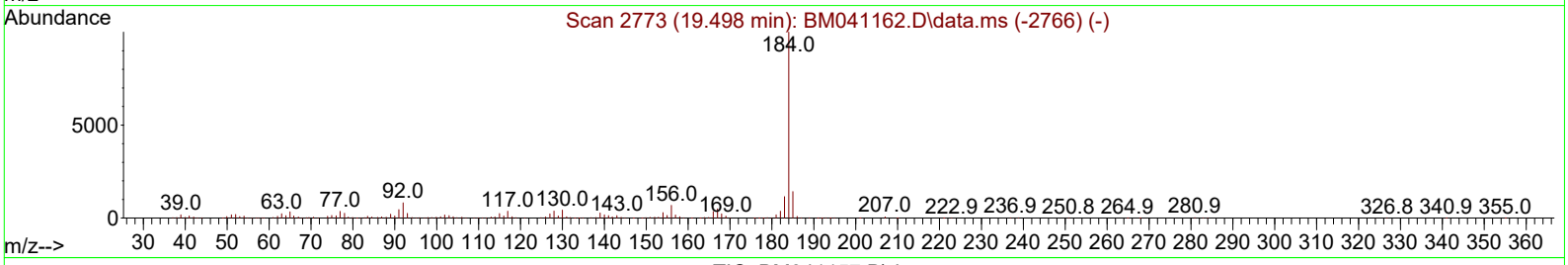
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM072823\
Data File : BM041157.D
Acq On : 28 Jul 2023 09:37
Operator : MA/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
DFTPP

Quant Time: Jul 29 04:31:06 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Jul 29 00:19:24 2023
Response via : Initial Calibration







TIC: BM041157.D\data.ms

(77) Benzidine

19.498min (-0.000) 0.00 ng

response 1327248

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	14.20	13.60
183.00	11.50	11.35
0.00	0.00	0.00

Instrument :
BNA_M
ClientSampleId :
DFTPP

DDT Breakdown

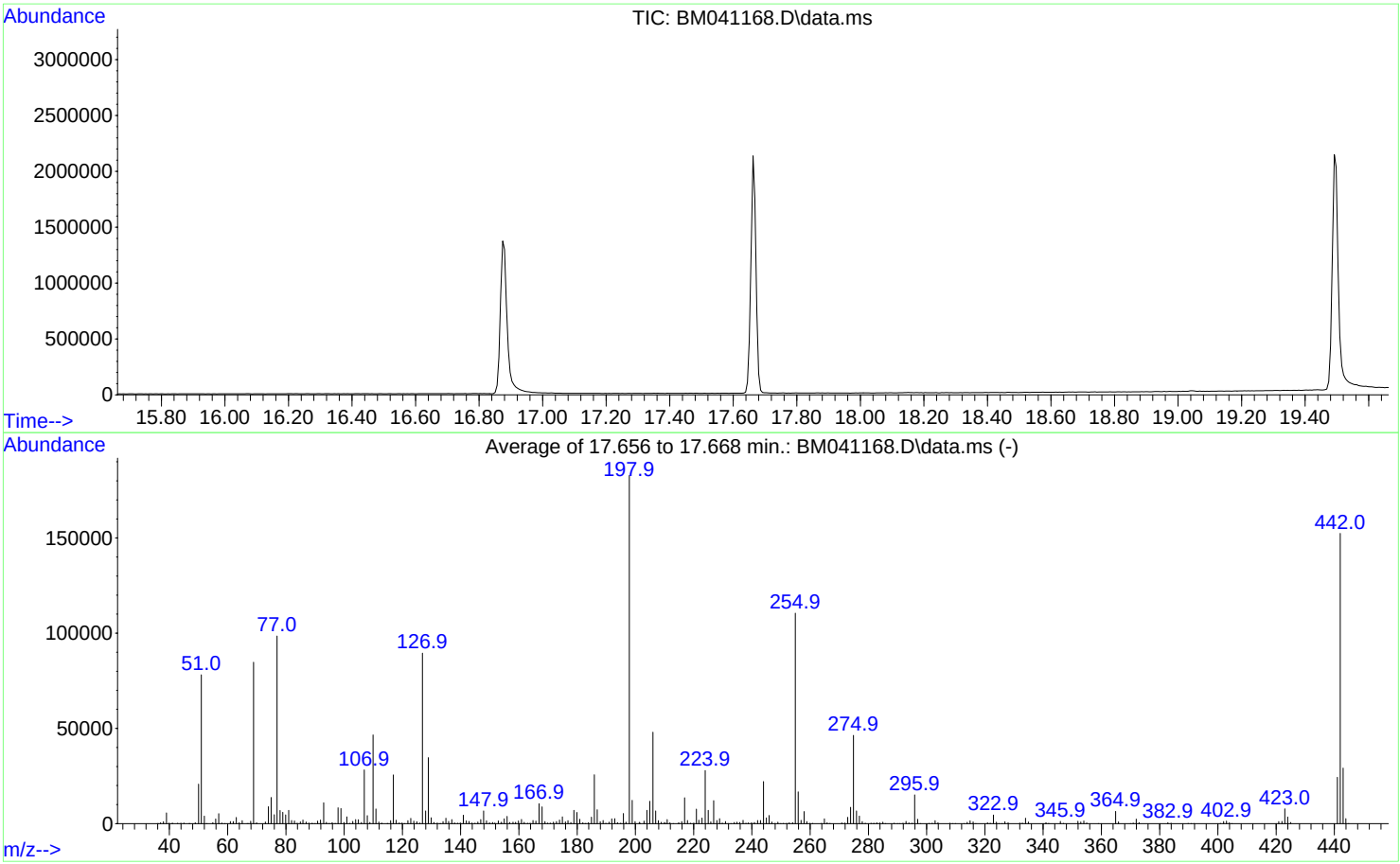
Date	Instrument Name	DFTPP Data File
7/28/2023	BNA_M	BM041157.D
Compound Name	**Response**	**Retention Time**
DDT	634693	20.721
DDD	5028	20.333
DDE	0	19.892
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
5028	639721	0.79

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM072823\
Data File : BM041168.D
Acq On : 28 Jul 2023 16:33
Operator : MA/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM072823.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Sat Jul 29 00:19:24 2023



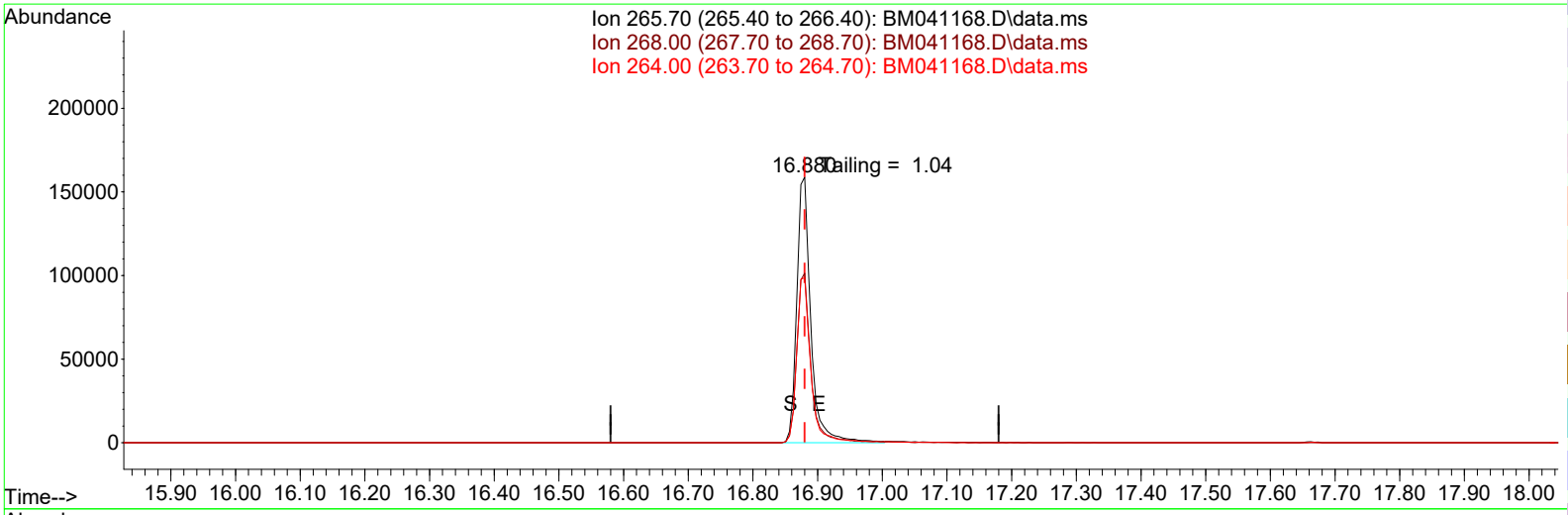
AutoFind: Scans 2460, 2461, 2462; Background Corrected with Scan 2454

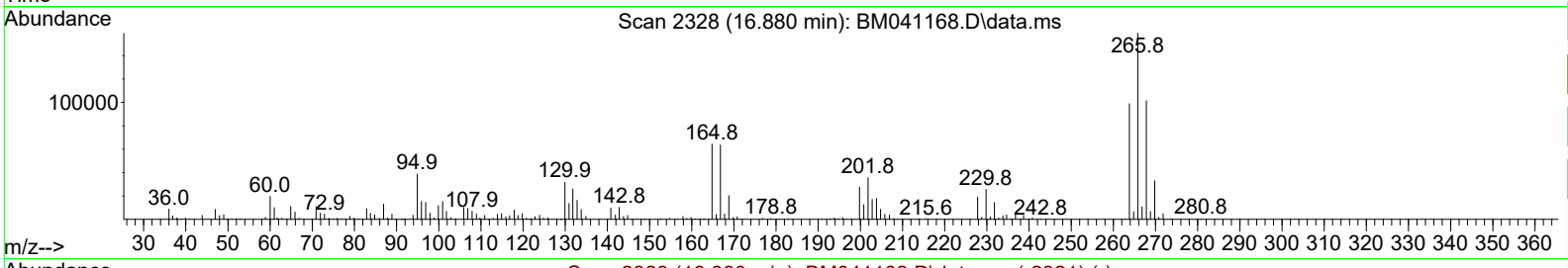
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	42.8	78187	PASS
68	69	0.00	2	1.5	1241	PASS
69	198	0.00	100	46.4	84789	PASS
70	69	0.00	2	0.6	514	PASS
127	198	10	80	49.0	89536	PASS
197	198	0.00	2	0.4	815	PASS
198	198	100	100	100.0	182784	PASS
199	198	5	9	6.7	12214	PASS
275	198	10	60	25.3	46328	PASS
365	198	1	100	3.5	6473	PASS
441	198	0.01	100	13.3	24323	PASS
442	442	50	100	100.0	152400	PASS
443	442	15	24	19.1	29177	PASS

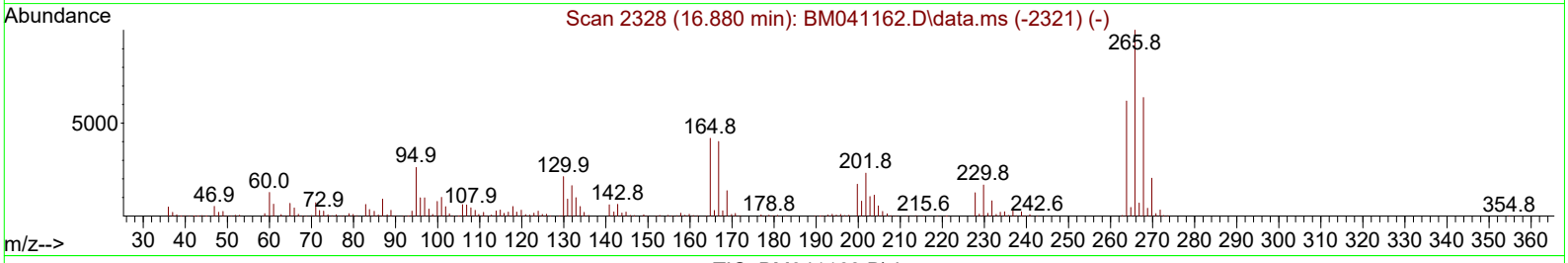
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM072823\
Data File : BM041168.D
Acq On : 28 Jul 2023 16:33
Operator : MA/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
DFTPP

Quant Time: Jul 29 04:32:11 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Jul 29 00:19:24 2023
Response via : Initial Calibration







TIC: BM041168.D\data.ms

(70) Pentachlorophenol (C)

16.880min (-0.000) 0.00 ng

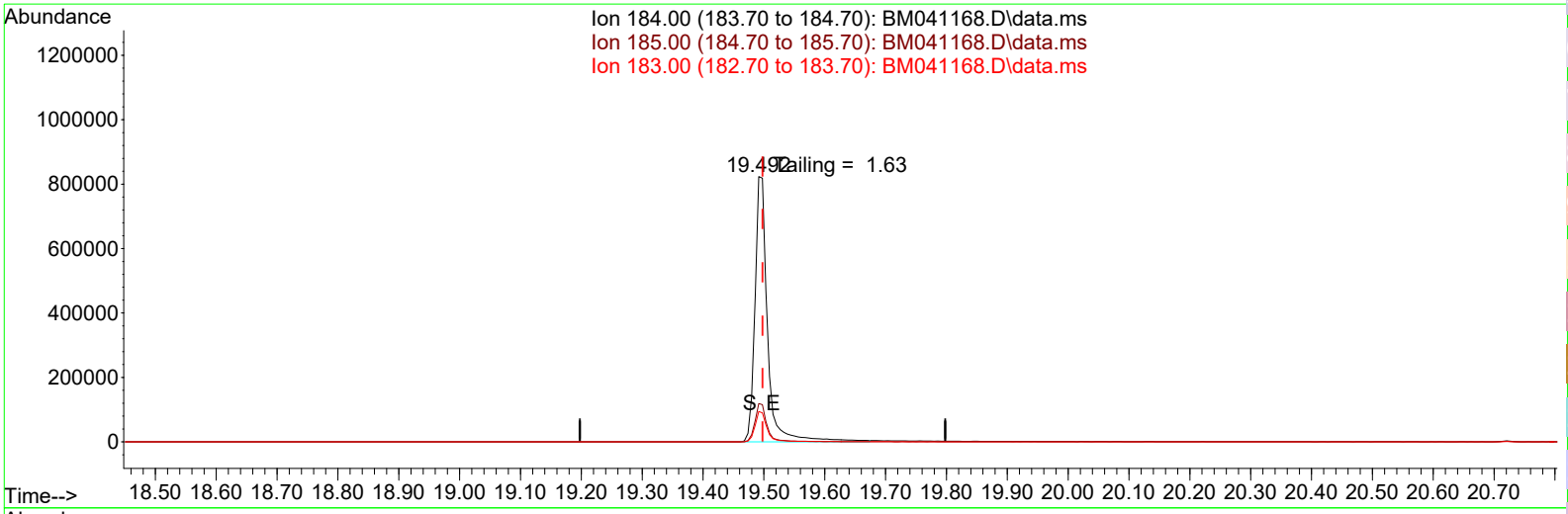
response 242566

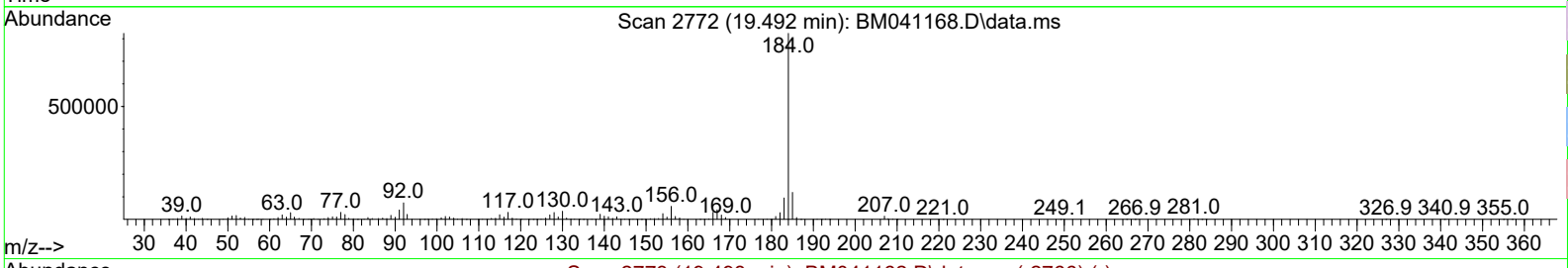
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	63.80	63.83
264.00	61.80	62.15
0.00	0.00	0.00

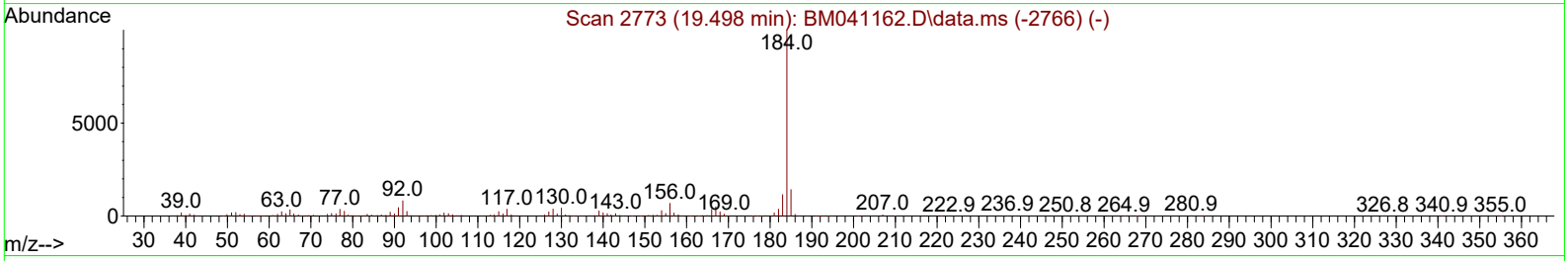
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM072823\
Data File : BM041168.D
Acq On : 28 Jul 2023 16:33
Operator : MA/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
DFTPP

Quant Time: Jul 29 04:32:11 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Jul 29 00:19:24 2023
Response via : Initial Calibration







TIC: BM041168.D\data.ms

(77) Benzidine

19.492min (-0.006) 1371060.88 ng

response 1214682

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	14.20	14.46
183.00	11.50	11.47
0.00	0.00	0.00

Instrument :
BNA_M
ClientSampleId :
DFTPP

DDT Breakdown

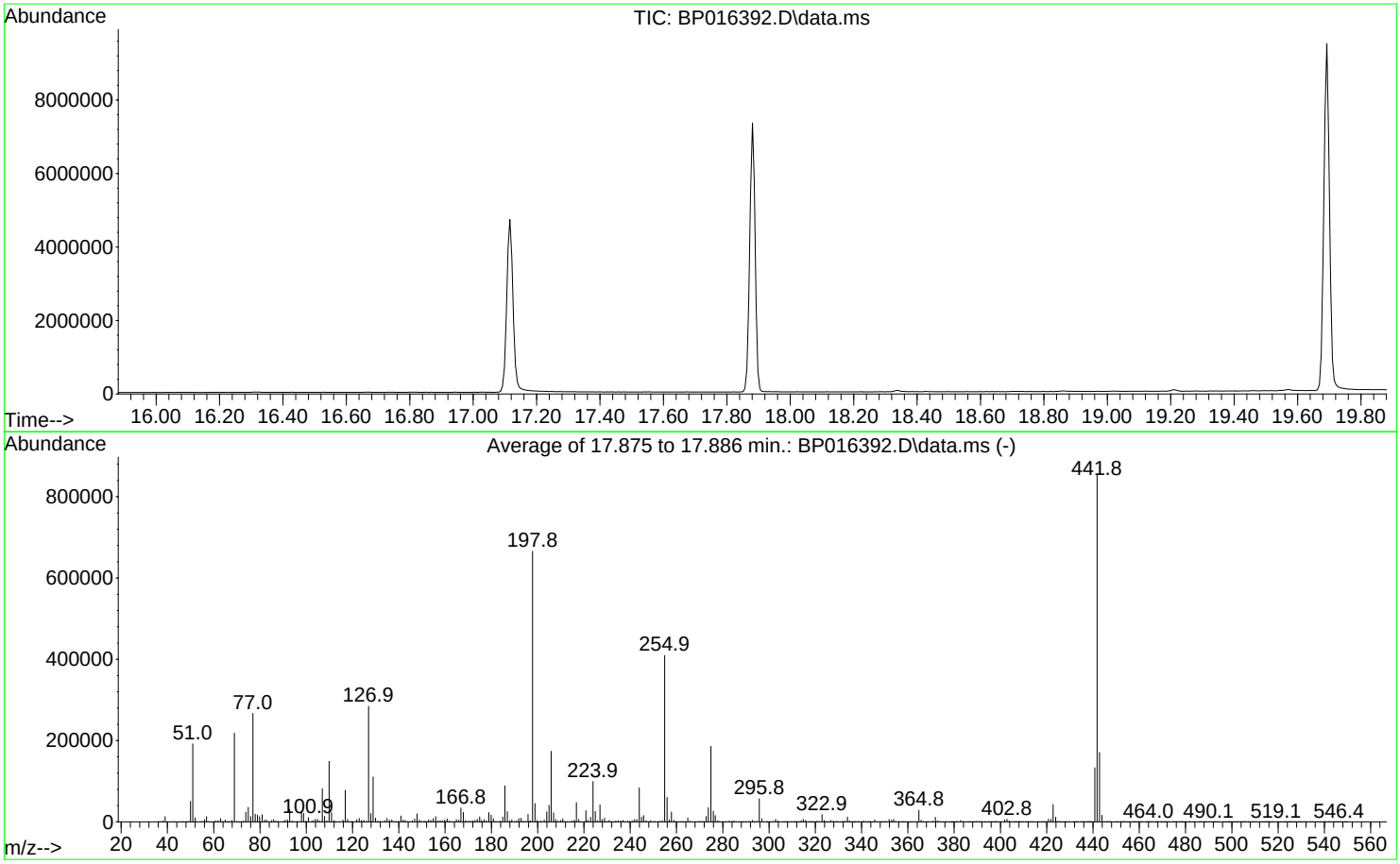
Date	Instrument Name	DFTPP Data File
7/28/2023	BNA_M	BM041168.D
Compound Name	**Response**	**Retention Time**
DDT	699038	20.721
DDD	6846	20.327
DDE	0	19.892
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
6846	705884	0.97

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP072723\
Data File : BP016392.D
Acq On : 27 Jul 2023 09:55
Operator : MA/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP072723.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Jul 28 01:48:25 2023



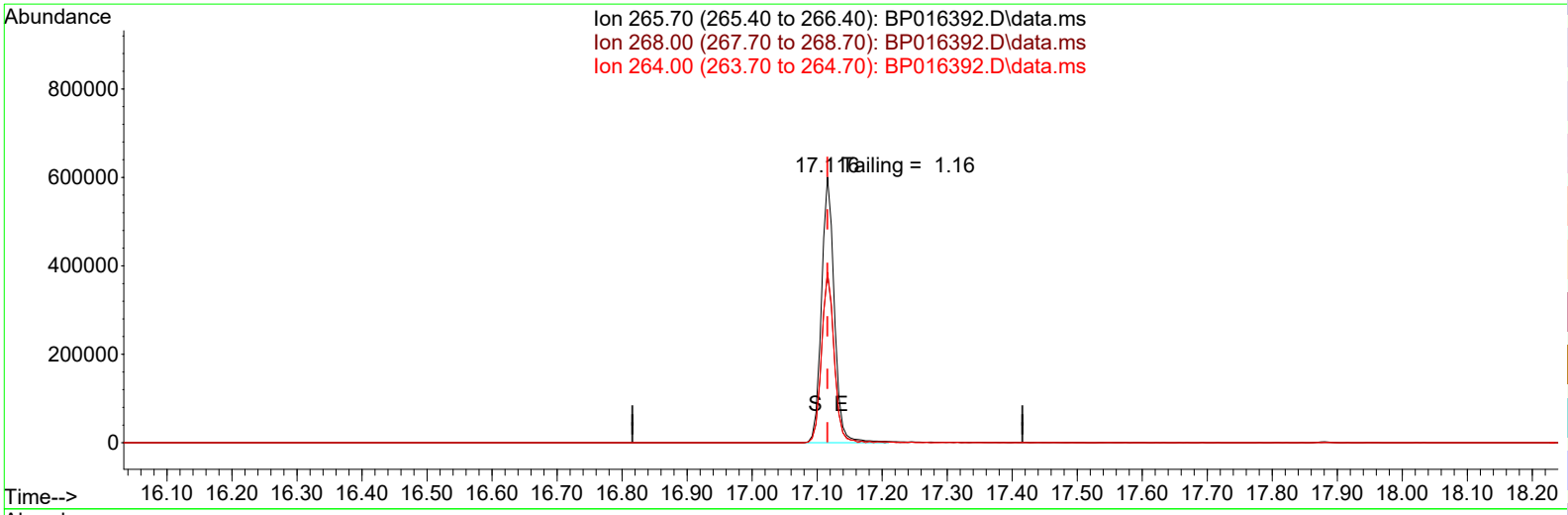
AutoFind: Scans 2480, 2481, 2482; Background Corrected with Scan 2472

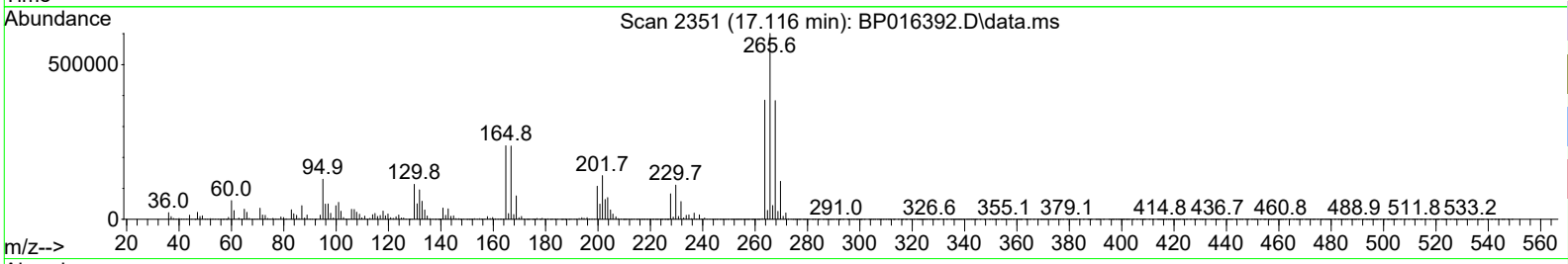
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	28.8	191899	PASS
68	69	0.00	2	1.6	3500	PASS
69	198	0.00	100	32.8	218170	PASS
70	69	0.00	2	0.5	1122	PASS
127	198	10	80	42.7	284544	PASS
197	198	0.00	2	0.4	2682	PASS
198	198	100	100	100.0	665877	PASS
199	198	5	9	6.8	45040	PASS
275	198	10	60	27.9	185892	PASS
365	198	1	100	4.2	28203	PASS
441	198	0.01	100	20.0	133110	PASS
442	442	100	100	100.0	854821	PASS
443	442	15	24	20.0	170739	PASS

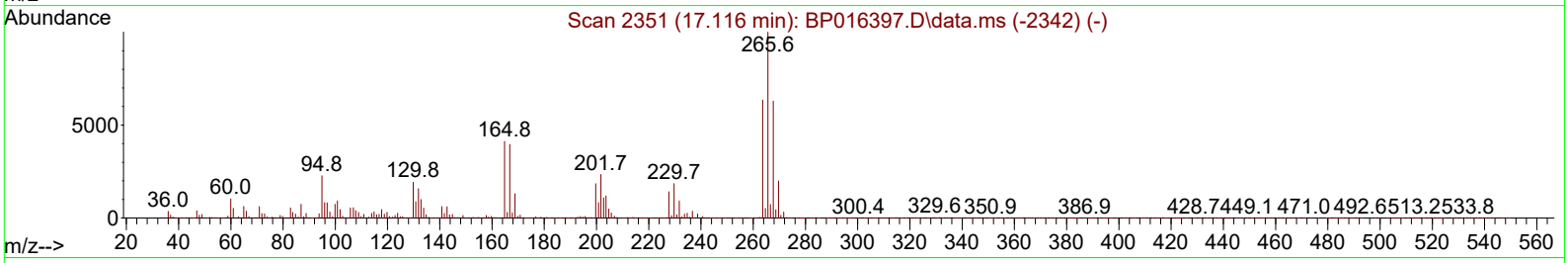
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP072723\
Data File : BP016392.D
Acq On : 27 Jul 2023 09:55
Operator : MA/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
DFTPP

Quant Time: Jul 28 04:44:53 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP072723.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 28 01:48:25 2023
Response via : Initial Calibration







TIC: BP016392.D\data.ms

(70) Pentachlorophenol (C)

17.116min (-0.000) 104614.76 ng

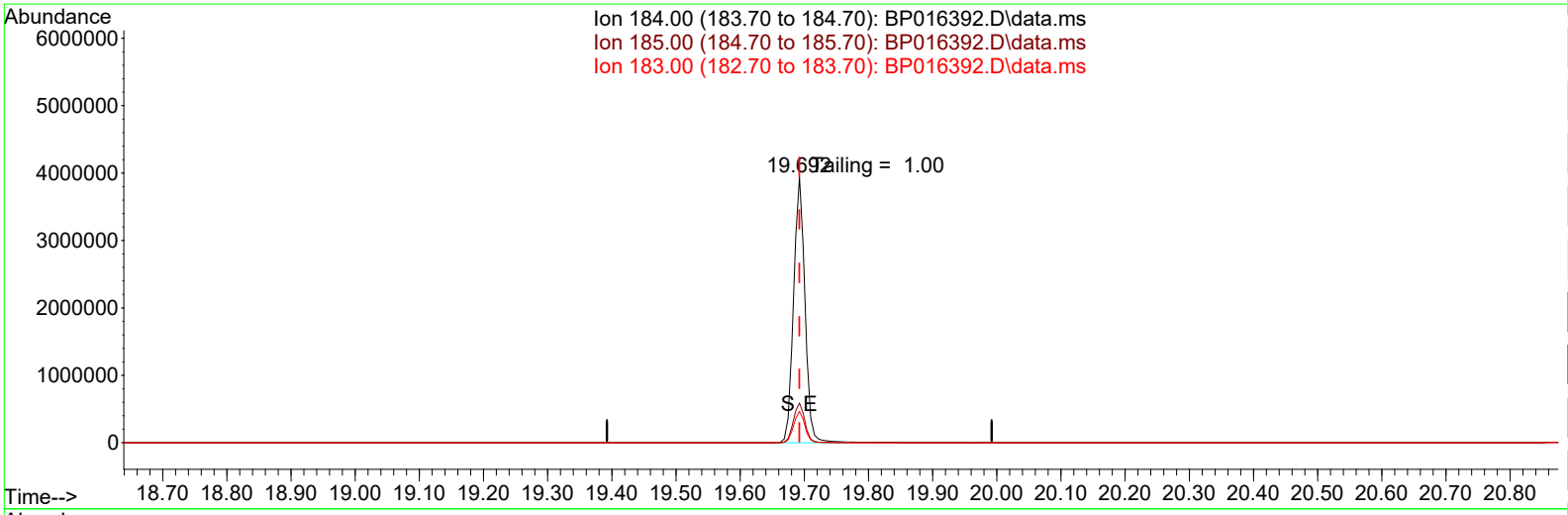
response 830934

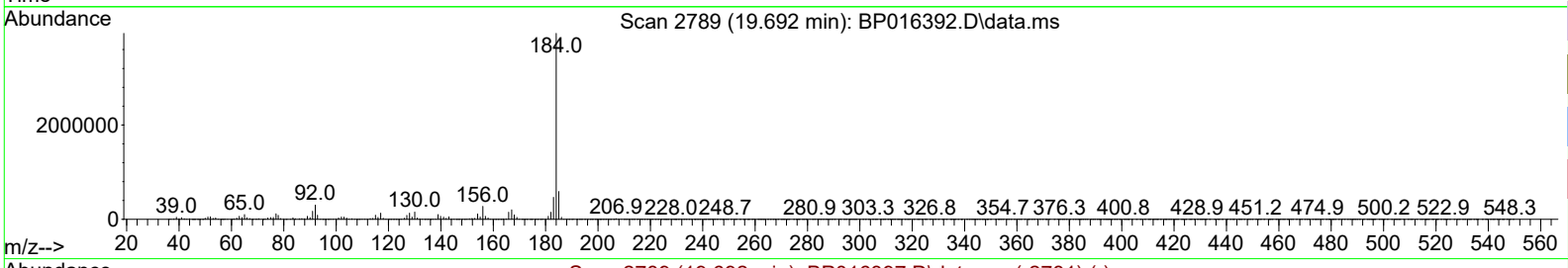
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	67.40	68.10
264.00	68.60	68.84
0.00	0.00	0.00

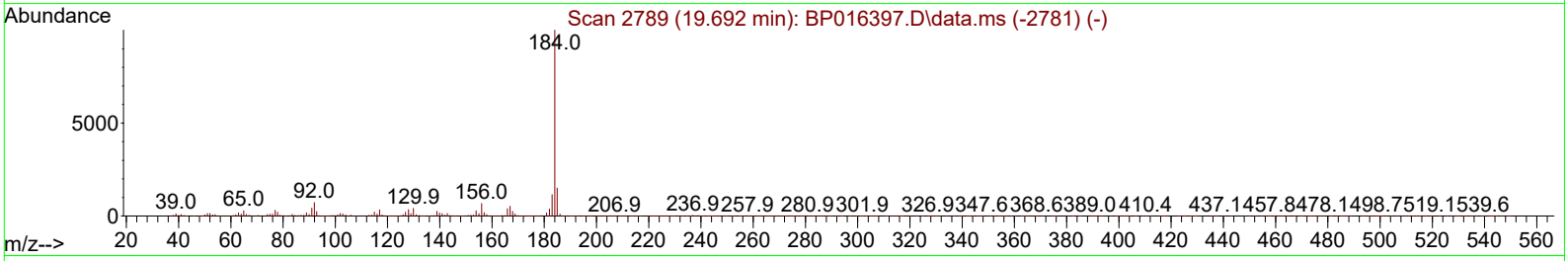
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP072723\
Data File : BP016392.D
Acq On : 27 Jul 2023 09:55
Operator : MA/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
DFTPP

Quant Time: Jul 28 04:44:53 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP072723.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 28 01:48:25 2023
Response via : Initial Calibration







TIC: BP016392.D\data.ms

(77) Benzidine

19.692min (-0.000) 180967.88 ng

response 4885195

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.00	14.97
183.00	11.50	11.81
0.00	0.00	0.00

Instrument :
BNA_P
ClientSampleId :
DFTPP

DDT Breakdown

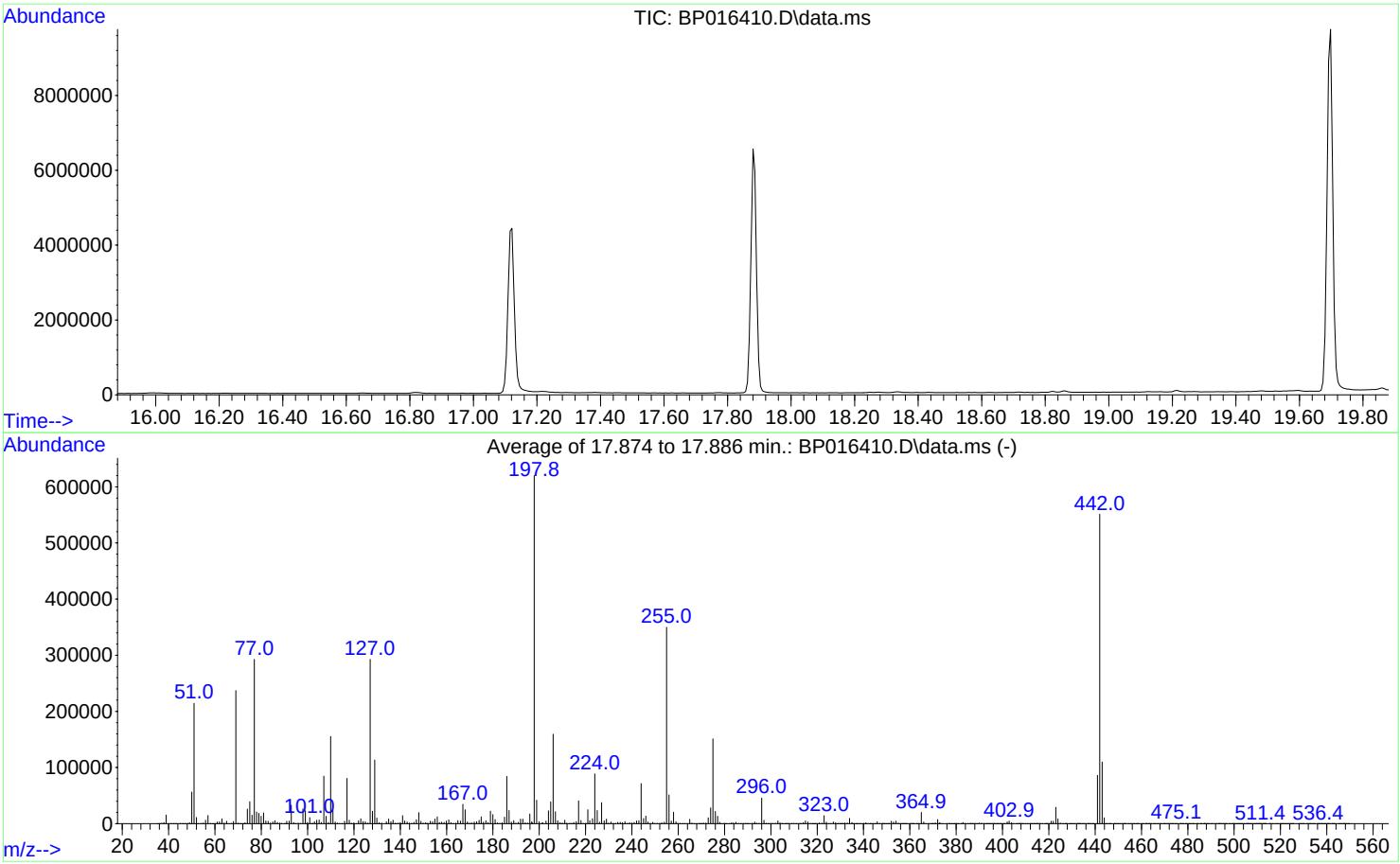
Date	Instrument Name	DFTPP Data File
7/27/2023	BNA_P	BP016392.D
Compound Name	**Response**	**Retention Time**
DDT	2215988	20.869
DDD	25289	20.486
DDE	486	19.939
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
25775	2241763	1.15

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP072823\
Data File : BP016410.D
Acq On : 28 Jul 2023 07:30
Operator : MA/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP072723.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Jul 28 01:48:25 2023



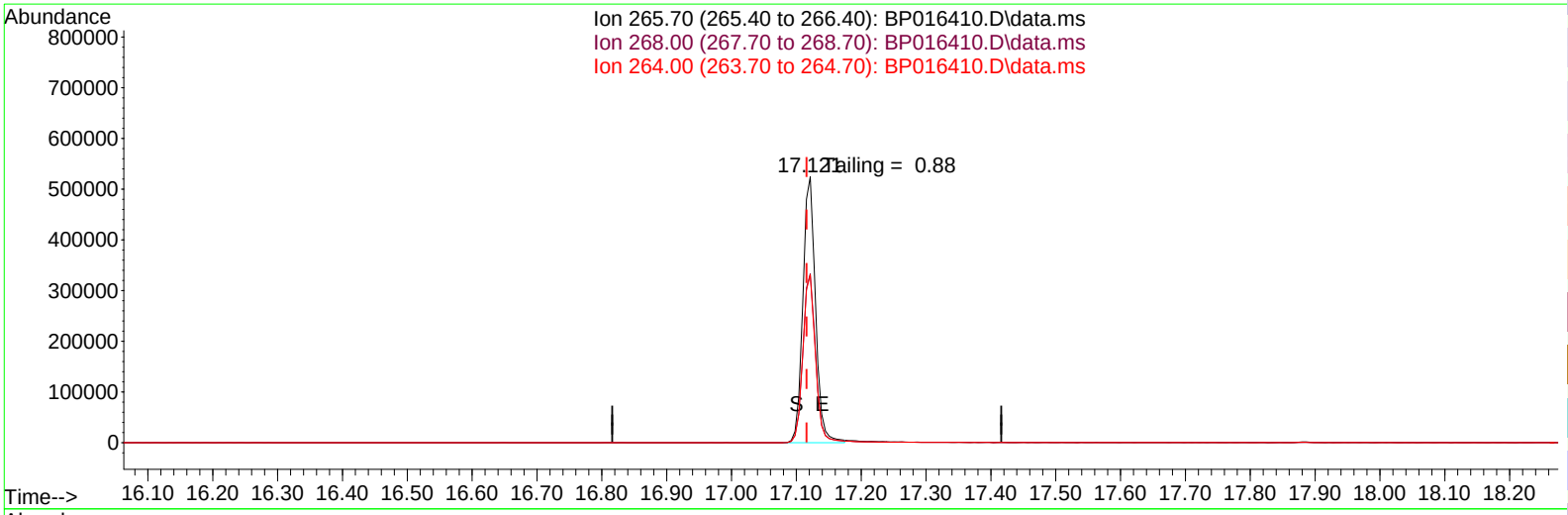
AutoFind: Scans 2480, 2481, 2482; Background Corrected with Scan 2467

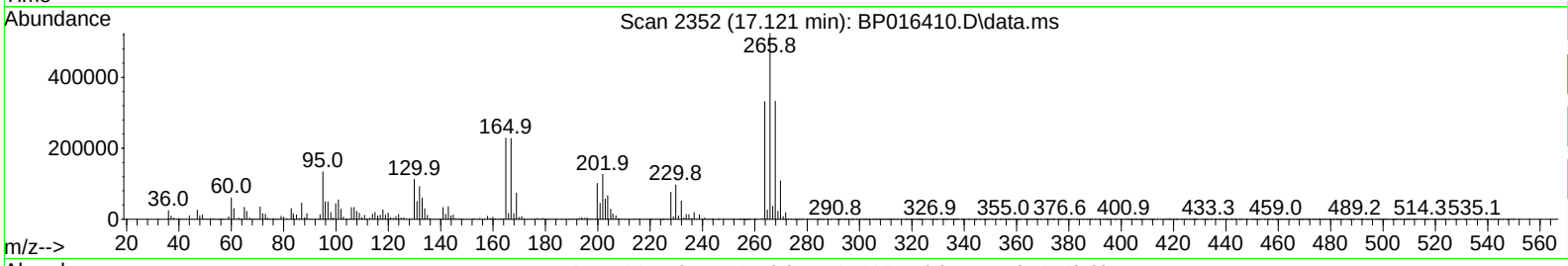
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	34.6	214512	PASS
68	69	0.00	2	1.6	3909	PASS
69	198	0.00	100	38.2	237067	PASS
70	69	0.00	2	0.5	1179	PASS
127	198	10	80	47.2	292596	PASS
197	198	0.00	2	0.6	3496	PASS
198	198	100	100	100.0	620143	PASS
199	198	5	9	6.7	41813	PASS
275	198	10	60	24.4	151165	PASS
365	198	1	100	3.2	19862	PASS
441	198	0.01	100	13.9	85952	PASS
442	442	100	100	100.0	551251	PASS
443	442	15	24	19.9	109755	PASS

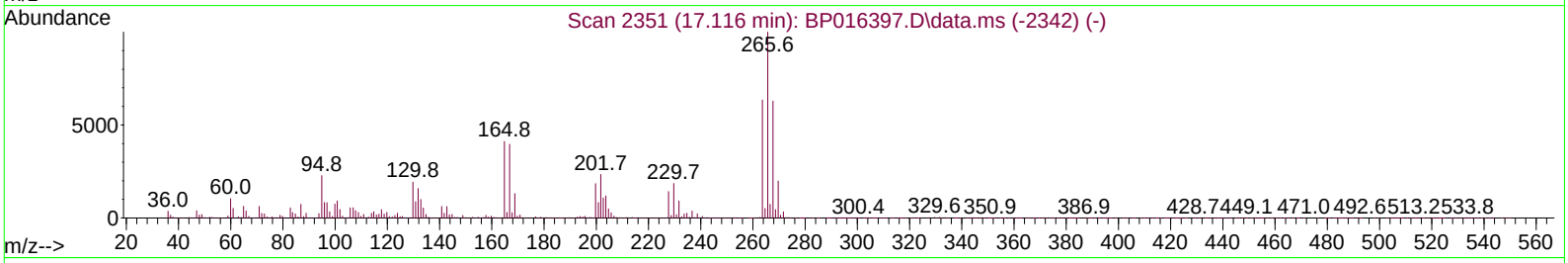
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP072823\
Data File : BP016410.D
Acq On : 28 Jul 2023 07:30
Operator : MA/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
DFTPP

Quant Time: Jul 29 05:07:41 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP072723.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 28 01:48:25 2023
Response via : Initial Calibration







TIC: BP016410.D\data.ms

(70) Pentachlorophenol (C)

17.121min (+ 0.005) 229486.64 ng

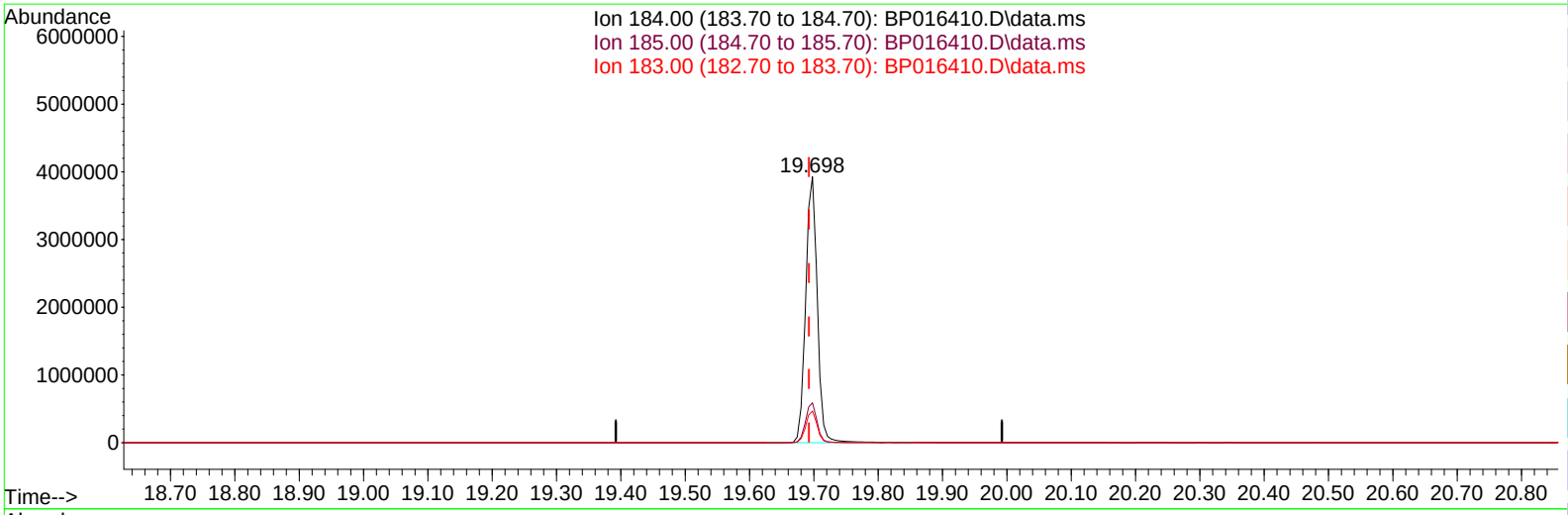
response 725731

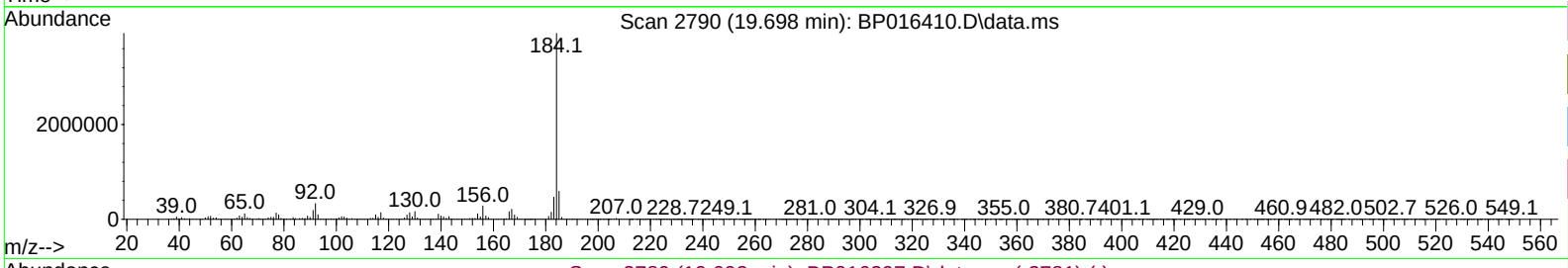
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	67.40	63.56
264.00	68.60	63.25
0.00	0.00	0.00

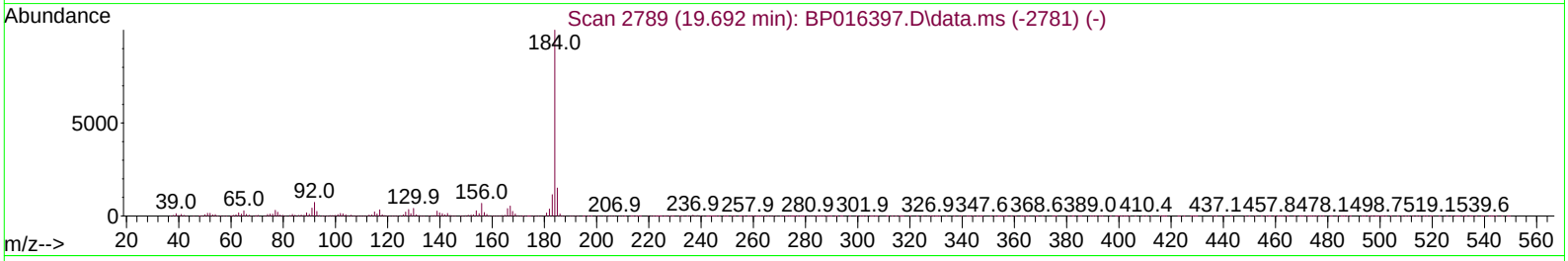
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP072823\
Data File : BP016410.D
Acq On : 28 Jul 2023 07:30
Operator : MA/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
DFTPP

Quant Time: Jul 29 05:07:41 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP072723.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 28 01:48:25 2023
Response via : Initial Calibration







TIC: BP016410.D\data.ms

(77) Benzidine

19.698min (+ 0.005) 35107.37 ng

response 4943102

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.00	15.00
183.00	11.50	11.89
0.00	0.00	0.00

Instrument :
BNA_P
ClientSampleId :
DFTPP

DDT Breakdown

Date	Instrument Name	DFTPP Data File
7/28/2023	BNA_P	BP016410.D
Compound Name	**Response**	**Retention Time**
DDT	1955000	20.874
DDD	41977	20.439
DDE	3142	19.939
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
45119	2000119	2.26

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	
Project:	Mackenna Parcels	Date Received:	
Client Sample ID:	PB154218BL	SDG No.:	O3645
Lab Sample ID:	PB154218BL	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP016412.D	1	07/17/23 08:30	07/28/23 08:37	PB154218

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	10.0	U	3.30	10.0	ug/L
108-95-2	Phenol	5.00	U	1.50	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	5.00	U	1.70	5.00	ug/L
95-57-8	2-Chlorophenol	5.00	U	1.40	5.00	ug/L
95-48-7	2-Methylphenol	5.00	U	2.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	5.00	U	2.30	5.00	ug/L
98-86-2	Acetophenone	5.00	U	1.80	5.00	ug/L
65794-96-9	3+4-Methylphenols	10.0	U	2.20	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	2.50	U	2.00	2.50	ug/L
67-72-1	Hexachloroethane	5.00	U	1.60	5.00	ug/L
98-95-3	Nitrobenzene	5.00	U	1.70	5.00	ug/L
78-59-1	Isophorone	5.00	U	1.70	5.00	ug/L
88-75-5	2-Nitrophenol	5.00	U	2.40	5.00	ug/L
105-67-9	2,4-Dimethylphenol	5.00	U	3.00	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	5.00	U	2.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	5.00	U	1.70	5.00	ug/L
91-20-3	Naphthalene	5.00	U	1.70	5.00	ug/L
106-47-8	4-Chloroaniline	5.00	U	2.50	5.00	ug/L
87-68-3	Hexachlorobutadiene	5.00	U	1.90	5.00	ug/L
105-60-2	Caprolactam	10.0	U	3.40	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	5.00	U	1.80	5.00	ug/L
91-57-6	2-Methylnaphthalene	5.00	U	2.20	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	10.0	U	5.70	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	5.00	U	1.50	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	5.00	U	1.60	5.00	ug/L
92-52-4	1,1-Biphenyl	5.00	U	1.80	5.00	ug/L
91-58-7	2-Chloronaphthalene	5.00	U	1.60	5.00	ug/L
88-74-4	2-Nitroaniline	5.00	U	2.40	5.00	ug/L
131-11-3	Dimethylphthalate	5.00	U	1.90	5.00	ug/L
208-96-8	Acenaphthylene	5.00	U	2.10	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	5.00	U	2.10	5.00	ug/L

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	
Project:	Mackenna Parcels	Date Received:	
Client Sample ID:	PB154218BL	SDG No.:	O3645
Lab Sample ID:	PB154218BL	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP016412.D	1	07/17/23 08:30	07/28/23 08:37	PB154218

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	5.00	U	2.40	5.00	ug/L
83-32-9	Acenaphthene	5.00	U	1.70	5.00	ug/L
51-28-5	2,4-Dinitrophenol	10.0	U	5.50	10.0	ug/L
100-02-7	4-Nitrophenol	10.0	U	2.80	10.0	ug/L
132-64-9	Dibenzofuran	5.00	U	1.60	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	5.00	U	2.50	5.00	ug/L
84-66-2	Diethylphthalate	5.00	U	2.10	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	5.00	U	2.20	5.00	ug/L
86-73-7	Fluorene	5.00	U	2.00	5.00	ug/L
100-01-6	4-Nitroaniline	5.00	U	2.30	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	10.0	U	1.80	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	5.00	U	2.00	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	5.00	U	2.00	5.00	ug/L
118-74-1	Hexachlorobenzene	5.00	U	1.90	5.00	ug/L
1912-24-9	Atrazine	5.00	U	3.50	5.00	ug/L
87-86-5	Pentachlorophenol	10.0	U	2.60	10.0	ug/L
85-01-8	Phenanthrene	5.00	U	2.00	5.00	ug/L
120-12-7	Anthracene	5.00	U	2.30	5.00	ug/L
86-74-8	Carbazole	5.00	U	1.70	5.00	ug/L
84-74-2	Di-n-butylphthalate	5.00	U	2.40	5.00	ug/L
206-44-0	Fluoranthene	5.00	U	2.10	5.00	ug/L
129-00-0	Pyrene	5.00	U	1.90	5.00	ug/L
85-68-7	Butylbenzylphthalate	5.00	U	2.80	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	10.0	U	5.40	10.0	ug/L
56-55-3	Benzo(a)anthracene	5.00	U	1.50	5.00	ug/L
218-01-9	Chrysene	5.00	U	1.60	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	5.00	U	2.90	5.00	ug/L
117-84-0	Di-n-octyl phthalate	10.0	U	3.10	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	5.00	U	1.50	5.00	ug/L
207-08-9	Benzo(k)fluoranthene	5.00	U	1.90	5.00	ug/L
50-32-8	Benzo(a)pyrene	5.00	U	2.70	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	5.00	U	2.10	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	5.00	U	2.00	5.00	ug/L

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	
Project:	Mackenna Parcels	Date Received:	
Client Sample ID:	PB154218BL	SDG No.:	O3645
Lab Sample ID:	PB154218BL	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP016412.D	1	07/17/23 08:30	07/28/23 08:37	PB154218

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
191-24-2	Benzo(g,h,i)perylene	5.00	U	1.90	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	5.00	U	2.10	5.00	ug/L
123-91-1	1,4-Dioxane	5.00	U	2.40	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	5.00	U	1.30	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	143		10 - 139	96%	SPK: 150
13127-88-3	Phenol-d6	135		10 - 134	90%	SPK: 150
4165-60-0	Nitrobenzene-d5	92.0		49 - 133	92%	SPK: 100
321-60-8	2-Fluorobiphenyl	89.5		52 - 132	89%	SPK: 100
118-79-6	2,4,6-Tribromophenol	110		45 - 141	74%	SPK: 150
1718-51-0	Terphenyl-d14	102		45 - 142	102%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	432000	8.087			
1146-65-2	Naphthalene-d8	1750000	10.922			
15067-26-2	Acenaphthene-d10	1050000	14.734			
1517-22-2	Phenanthrene-d10	2340000	17.492			
1719-03-5	Chrysene-d12	2050000	21.586			
1520-96-3	Perylene-d12	2200000	24.18			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	2.10	A		5.15	ug/L

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP072823\
Data File : BP016412.D
Acq On : 28 Jul 2023 08:37
Operator : MA/JU
Sample : PB154218BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
PB154218BL

Quant Time: Jul 28 09:09:22 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP072723.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 28 01:48:25 2023
Response via : Initial Calibration

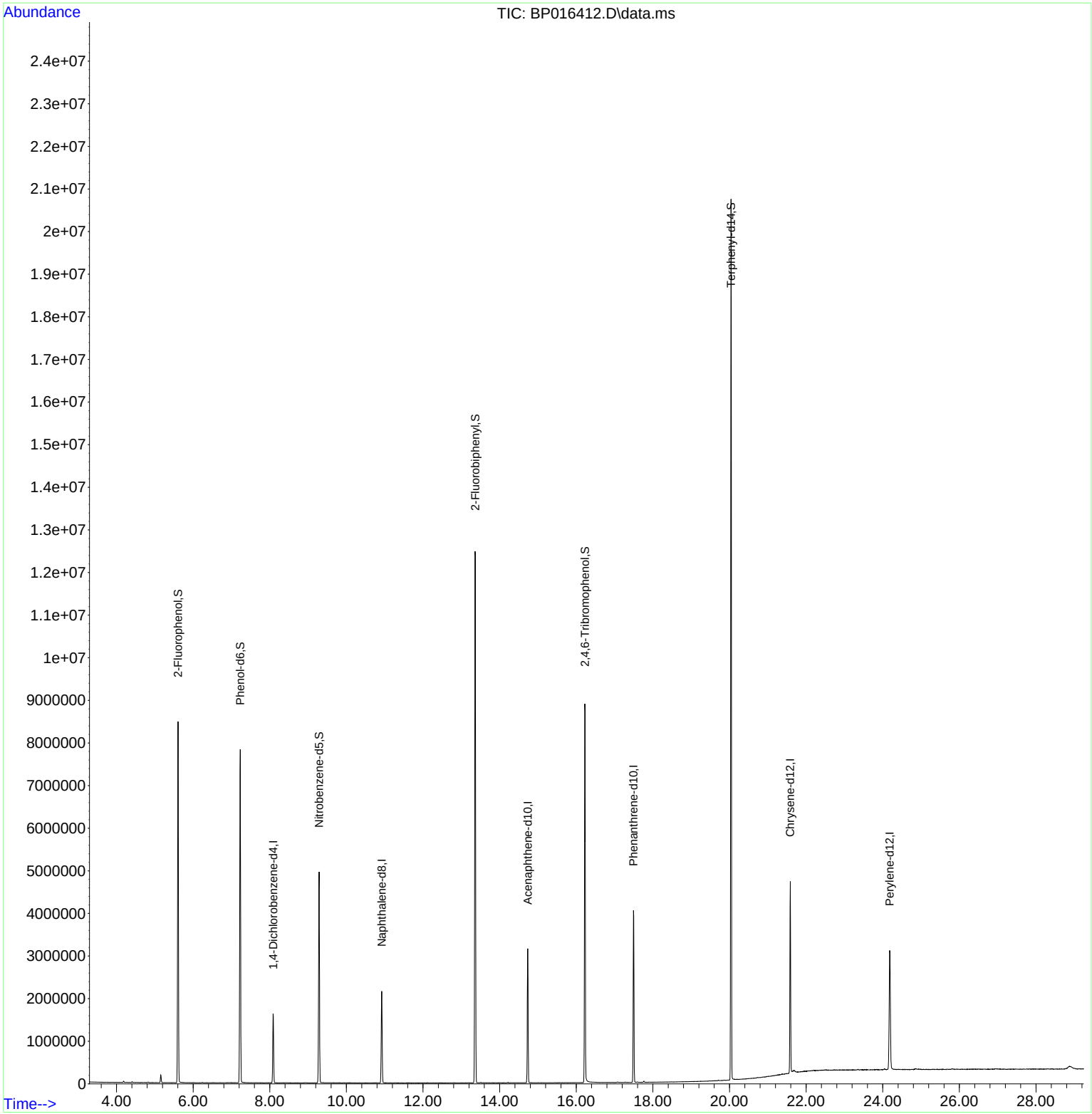
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.087	152	431547	20.000	ng	0.00
21) Naphthalene-d8	10.922	136	1746469	20.000	ng	0.00
39) Acenaphthene-d10	14.734	164	1045573	20.000	ng	0.00
64) Phenanthrene-d10	17.492	188	2341398	20.000	ng	0.00
76) Chrysene-d12	21.586	240	2050873	20.000	ng	0.00
86) Perylene-d12	24.180	264	2195263	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.605	112	3795497	143.484	ng	0.00
7) Phenol-d6	7.228	99	4901897	135.197	ng	0.00
23) Nitrobenzene-d5	9.287	82	2869600	91.978	ng	0.00
42) 2,4,6-Tribromophenol	16.228	330	1698053	110.393	ng	0.00
45) 2-Fluorobiphenyl	13.363	172	6525268	89.473	ng	0.00
79) Terphenyl-d14	20.039	244	9941344	102.397	ng	0.00
Target Compounds						Qvalue

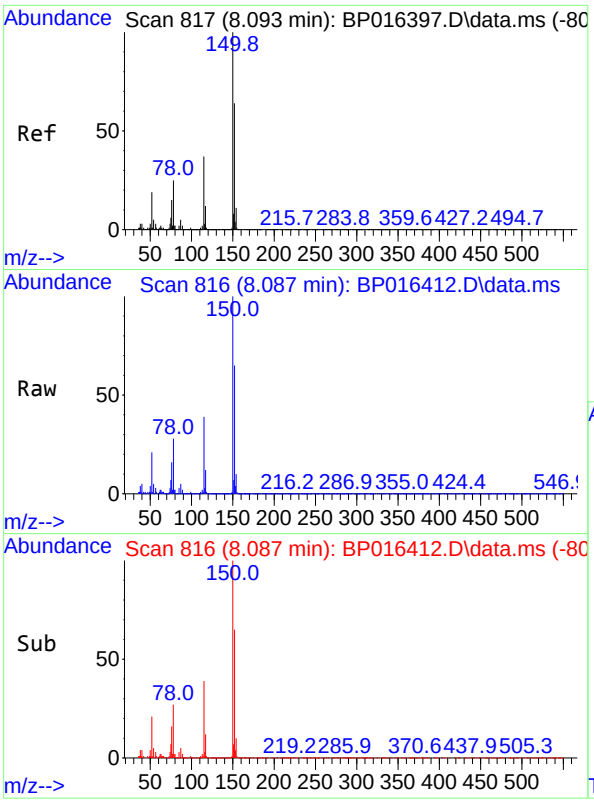
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP072823\
Data File : BP016412.D
Acq On : 28 Jul 2023 08:37
Operator : MA/JU
Sample : PB154218BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
PB154218BL

Quant Time: Jul 28 09:09:22 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP072723.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 28 01:48:25 2023
Response via : Initial Calibration



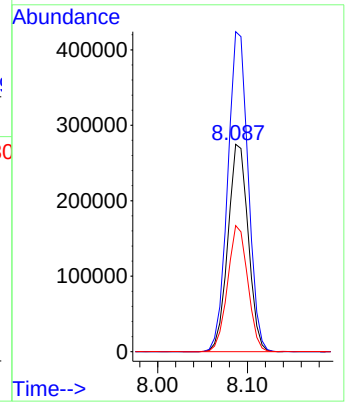


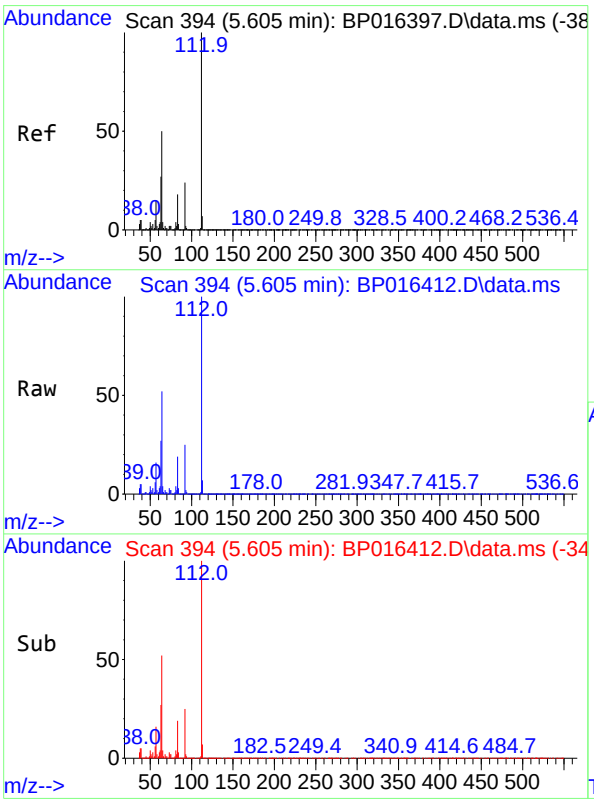
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.087 min Scan# 8
Delta R.T. -0.006 min
Lab File: BP016412.D
Acq: 28 Jul 2023 08:37

Instrument :
BNA_P
ClientSampleId :
PB154218BL

Tgt Ion:152 Resp: 431547

Ion	Ratio	Lower	Upper
152	100		
150	154.3	124.9	187.3
115	60.8	46.8	70.2

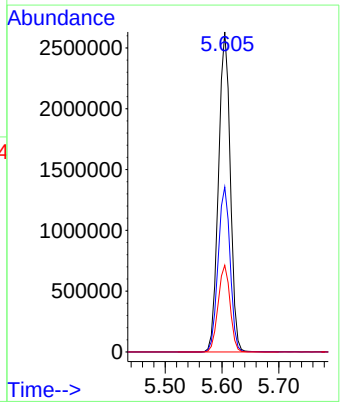


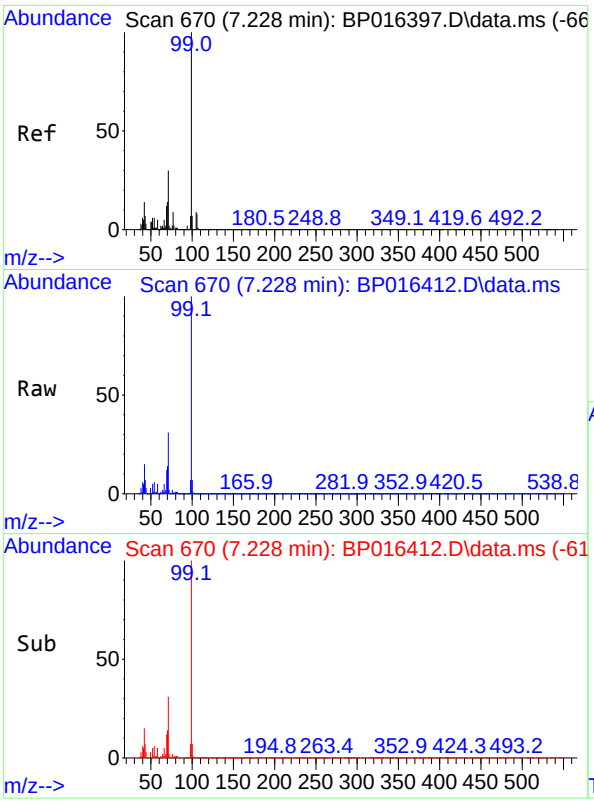


#5
2-Fluorophenol
Concen: 143.484 ng
RT: 5.605 min Scan# 394
Delta R.T. -0.000 min
Lab File: BP016412.D
Acq: 28 Jul 2023 08:37

Tgt Ion:112 Resp: 3795497

Ion	Ratio	Lower	Upper
112	100		
64	51.5	40.0	60.0
63	27.1	21.2	31.8



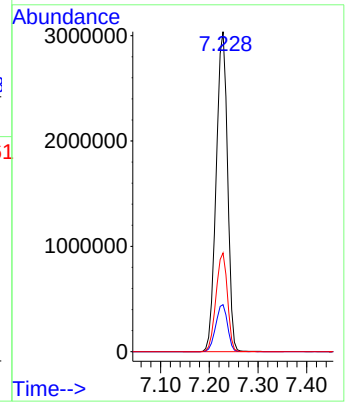


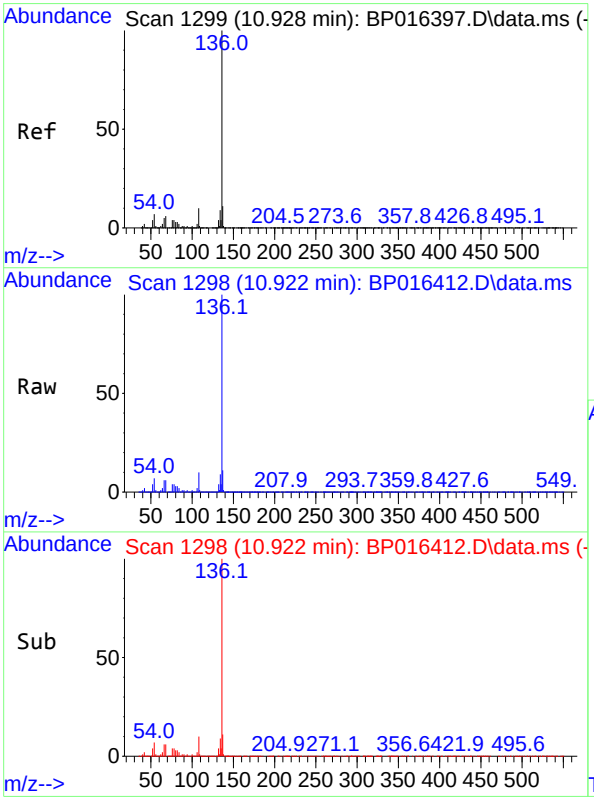
#7
Phenol-d6
Concen: 135.197 ng
RT: 7.228 min Scan# 6
Delta R.T. -0.000 min
Lab File: BP016412.D
Acq: 28 Jul 2023 08:37

Instrument :
BNA_P
ClientSampleId :
PB154218BL

Tgt Ion: 99 Resp: 4901897

Ion	Ratio	Lower	Upper
99	100		
42	14.7	11.6	17.4
71	30.8	24.3	36.5

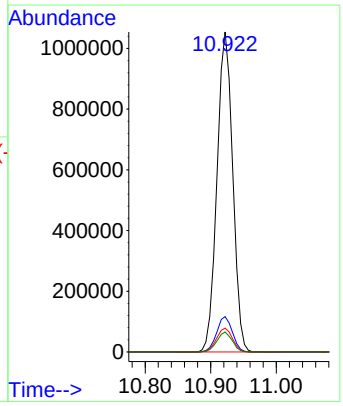


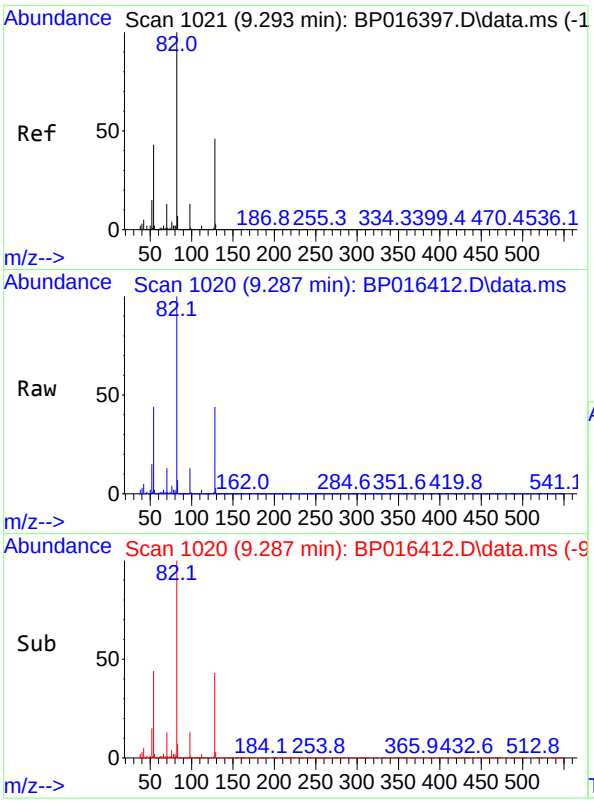


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.922 min Scan# 1298
Delta R.T. -0.006 min
Lab File: BP016412.D
Acq: 28 Jul 2023 08:37

Tgt Ion:136 Resp: 1746469

Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.6	13.0
54	7.4	5.6	8.4
68	6.3	4.6	6.8



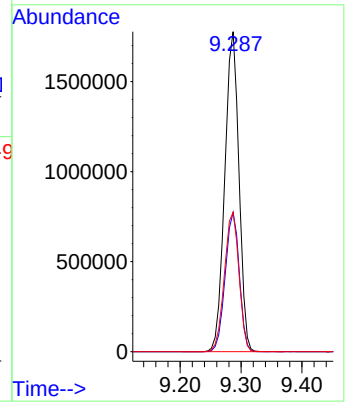


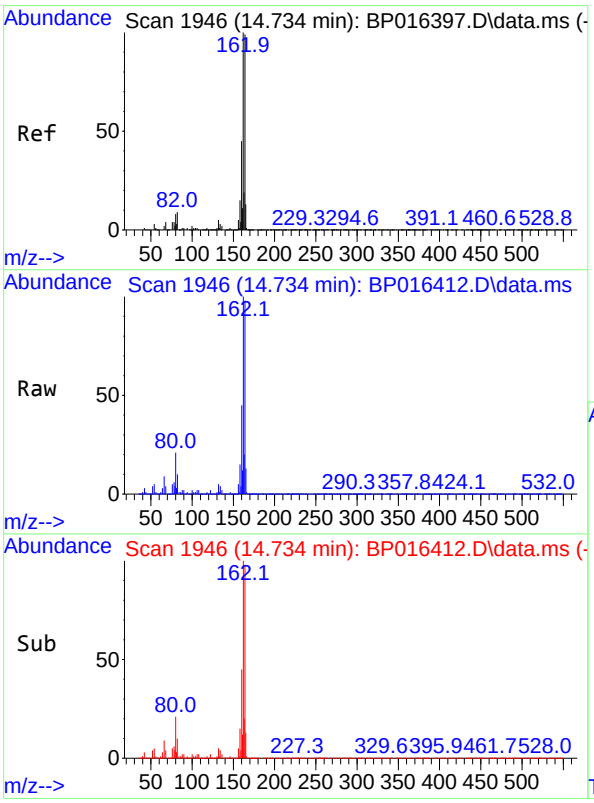
#23
Nitrobenzene-d5
Concen: 91.978 ng
RT: 9.287 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP016412.D
Acq: 28 Jul 2023 08:37

Instrument :
BNA_P
ClientSampleId :
PB154218BL

Tgt Ion: 82 Resp: 2869600

Ion	Ratio	Lower	Upper
82	100		
128	43.5	36.6	55.0
54	43.6	34.5	51.7

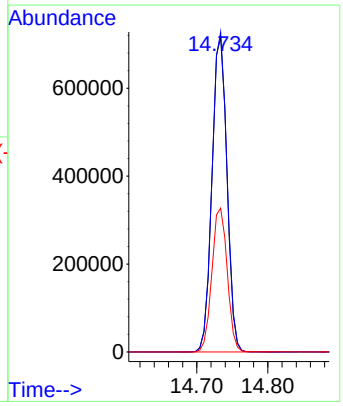


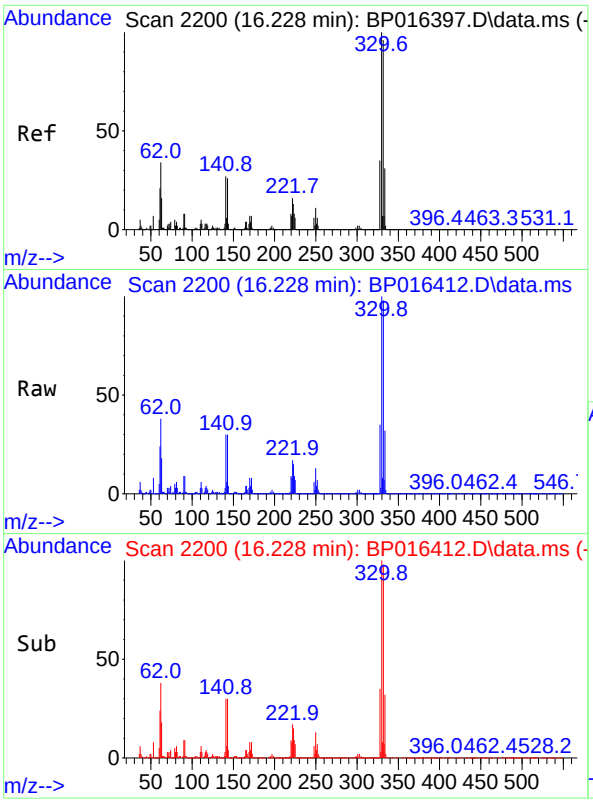


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.734 min Scan# 1946
Delta R.T. -0.000 min
Lab File: BP016412.D
Acq: 28 Jul 2023 08:37

Tgt Ion:164 Resp: 1045573

Ion	Ratio	Lower	Upper
164	100		
162	101.8	81.0	121.6
160	45.8	36.6	55.0



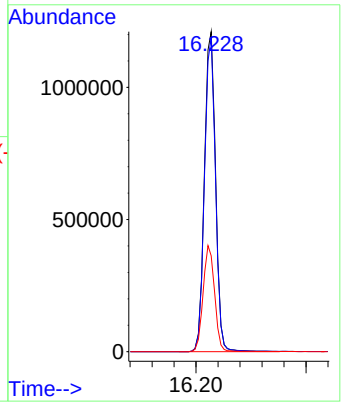


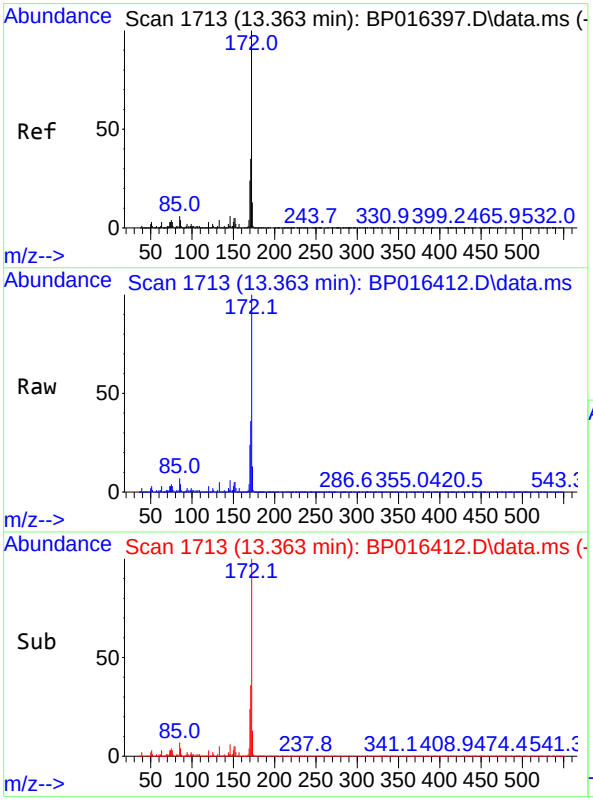
#42
2,4,6-Tribromophenol
Concen: 110.393 ng
RT: 16.228 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP016412.D
Acq: 28 Jul 2023 08:37

Instrument :
BNA_P
ClientSampleId :
PB154218BL

Tgt Ion:330 Resp: 1698053

Ion	Ratio	Lower	Upper
330	100		
332	97.1	77.8	116.8
141	34.3	22.6	34.0#

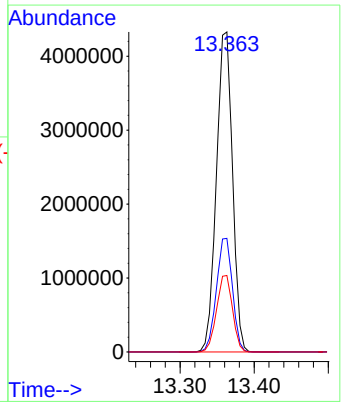


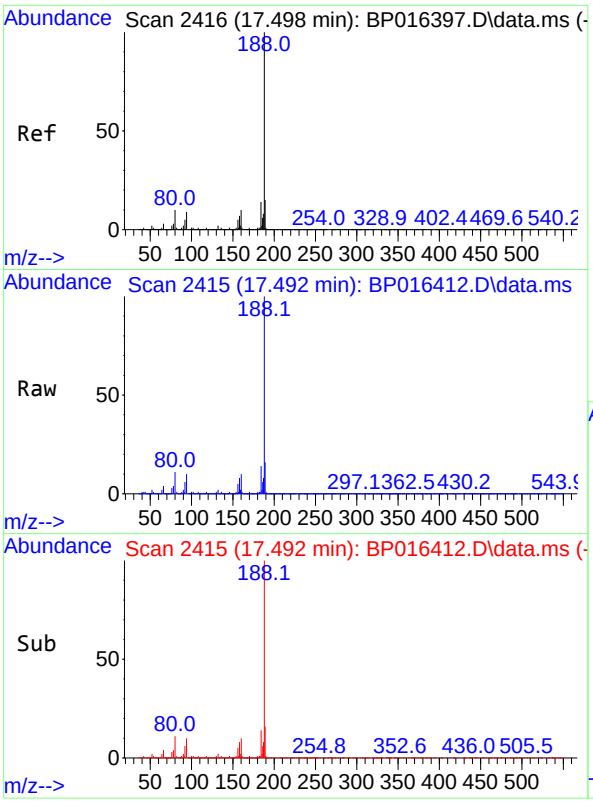


#45
2-Fluorobiphenyl
Concen: 89.473 ng
RT: 13.363 min Scan# 1713
Delta R.T. -0.000 min
Lab File: BP016412.D
Acq: 28 Jul 2023 08:37

Tgt Ion:172 Resp: 6525268

Ion	Ratio	Lower	Upper
172	100		
171	35.5	28.2	42.2
170	23.9	19.1	28.7



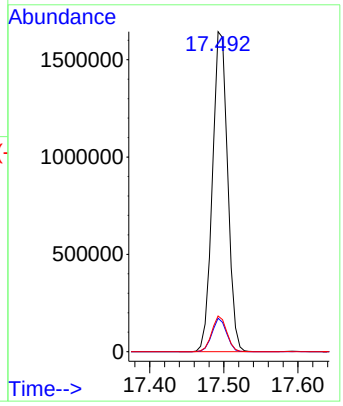


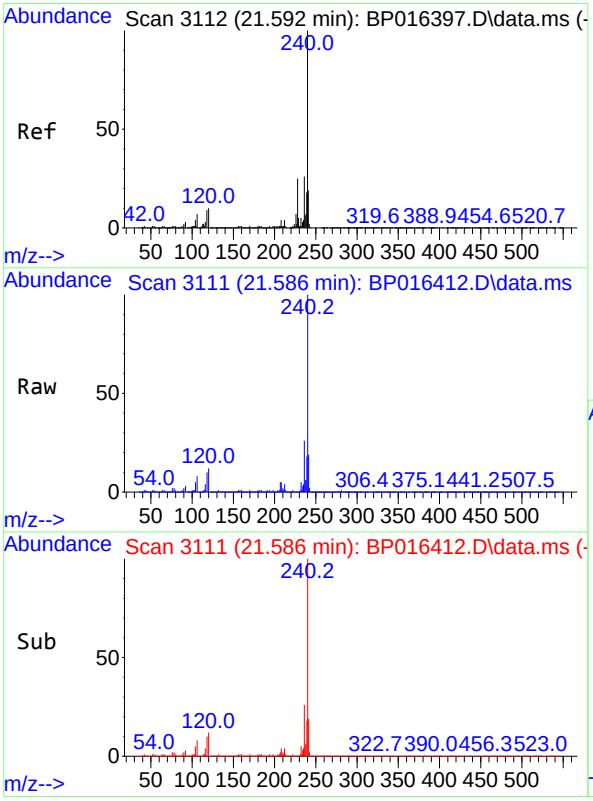
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.492 min Scan# 24
Delta R.T. -0.006 min
Lab File: BP016412.D
Acq: 28 Jul 2023 08:37

Instrument :
BNA_P
ClientSampleId :
PB154218BL

Tgt Ion:188 Resp: 2341398

Ion	Ratio	Lower	Upper
188	100		
94	10.4	7.4	11.0
80	11.1	7.8	11.8

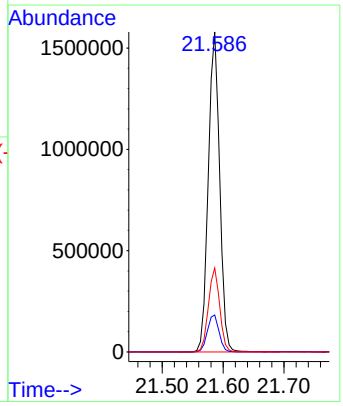


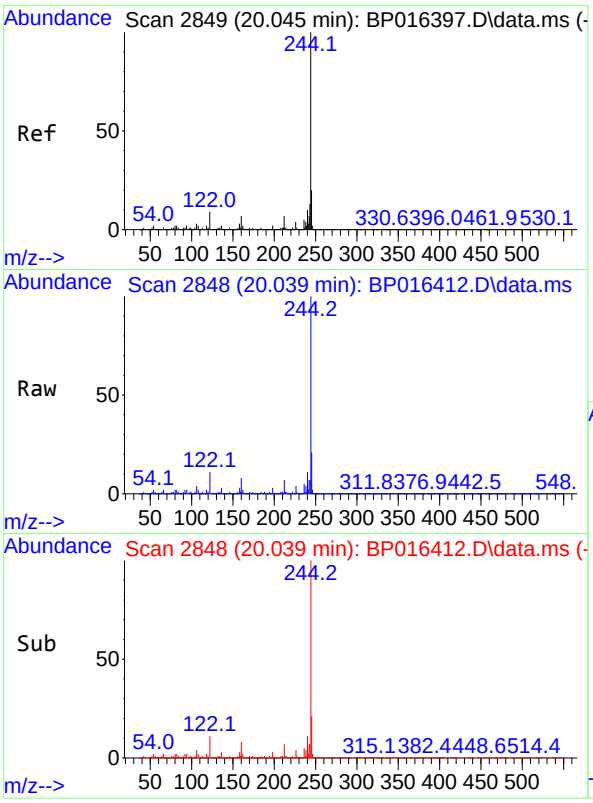


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.586 min Scan# 3111
Delta R.T. -0.006 min
Lab File: BP016412.D
Acq: 28 Jul 2023 08:37

Tgt Ion:240 Resp: 2050873

Ion	Ratio	Lower	Upper
240	100		
120	11.5	7.9	11.9
236	26.2	21.1	31.7



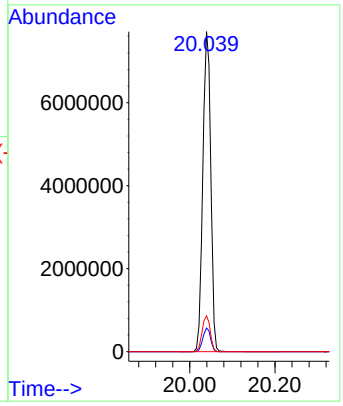


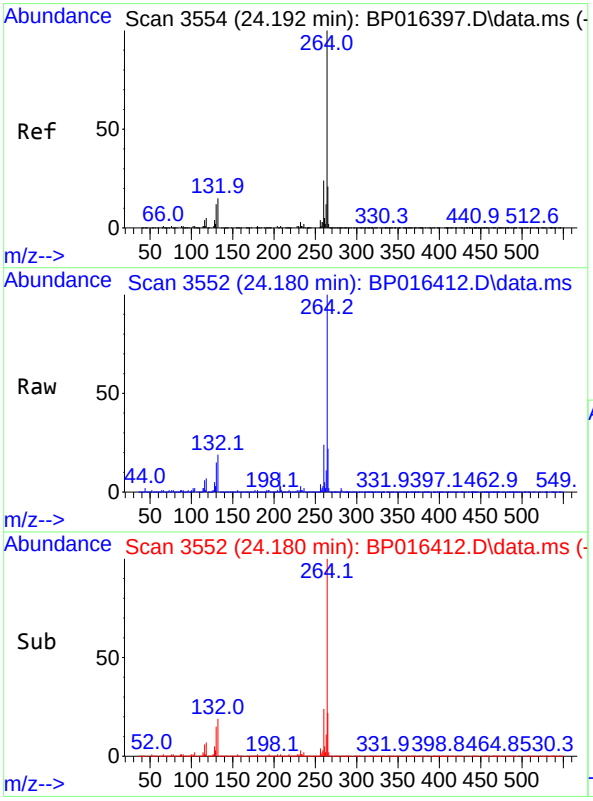
#79
Terphenyl-d14
Concen: 102.397 ng
RT: 20.039 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP016412.D
Acq: 28 Jul 2023 08:37

Instrument :
BNA_P
ClientSampleId :
PB154218BL

Tgt Ion:244 Resp: 9941344

Ion	Ratio	Lower	Upper
244	100		
212	7.4	5.6	8.4
122	11.2	7.4	11.2#

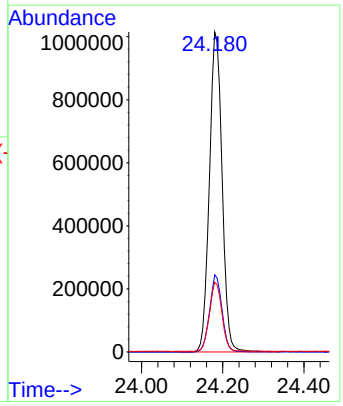




#86
Perylene-d12
Concen: 20.000 ng
RT: 24.180 min Scan# 3552
Delta R.T. -0.012 min
Lab File: BP016412.D
Acq: 28 Jul 2023 08:37

Tgt Ion:264 Resp: 2195263

Ion	Ratio	Lower	Upper
264	100		
260	24.1	19.3	28.9
265	21.8	17.4	26.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP072823\
Data File : BP016412.D
Acq On : 28 Jul 2023 08:37
Operator : MA/JU
Sample : PB154218BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
PB154218BL

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP072723.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BP016412.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.152	310	317	324	rBV	179462	267613	1.00%	0.221%
2	5.605	384	394	407	rBV	8472919	12343321	46.20%	10.192%
3	7.228	660	670	682	rBV	7824435	12876700	48.19%	10.632%
4	8.087	809	816	824	rBV	1617108	2538053	9.50%	2.096%
5	9.287	1012	1020	1029	rBV	4952870	8147650	30.49%	6.727%
6	10.922	1290	1298	1306	rBV	2150040	3580481	13.40%	2.956%
7	13.357	1704	1712	1723	rBV	12471717	18889382	70.70%	15.597%
8	14.734	1938	1946	1956	rBV	3149354	4680138	17.52%	3.864%
9	16.222	2192	2199	2226	rBV	8887569	13297633	49.77%	10.980%
10	17.492	2408	2415	2424	rBV	4033436	5782903	21.64%	4.775%
11	20.039	2842	2848	2853	rBV	20670119	26718113	100.00%	22.061%
12	21.586	3105	3111	3117	rBV	4496471	5953187	22.28%	4.916%
13	24.180	3545	3552	3569	rVB2	2789935	6035003	22.59%	4.983%

Sum of corrected areas: 121110177

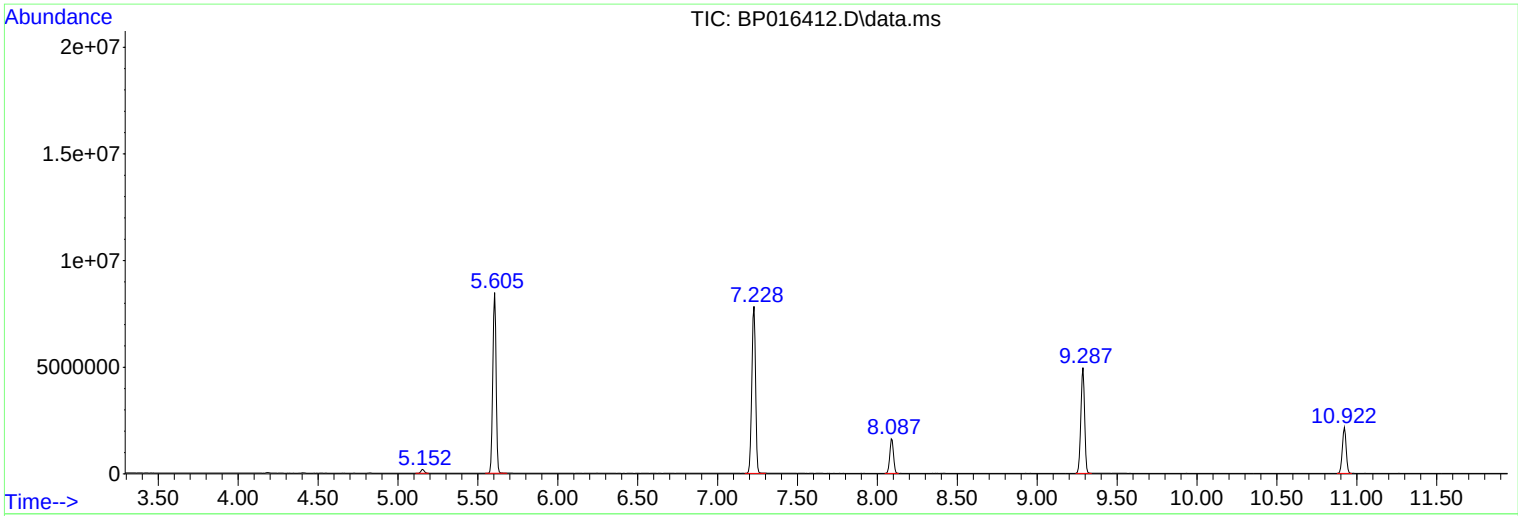
Sample Results: **BP016412.D**

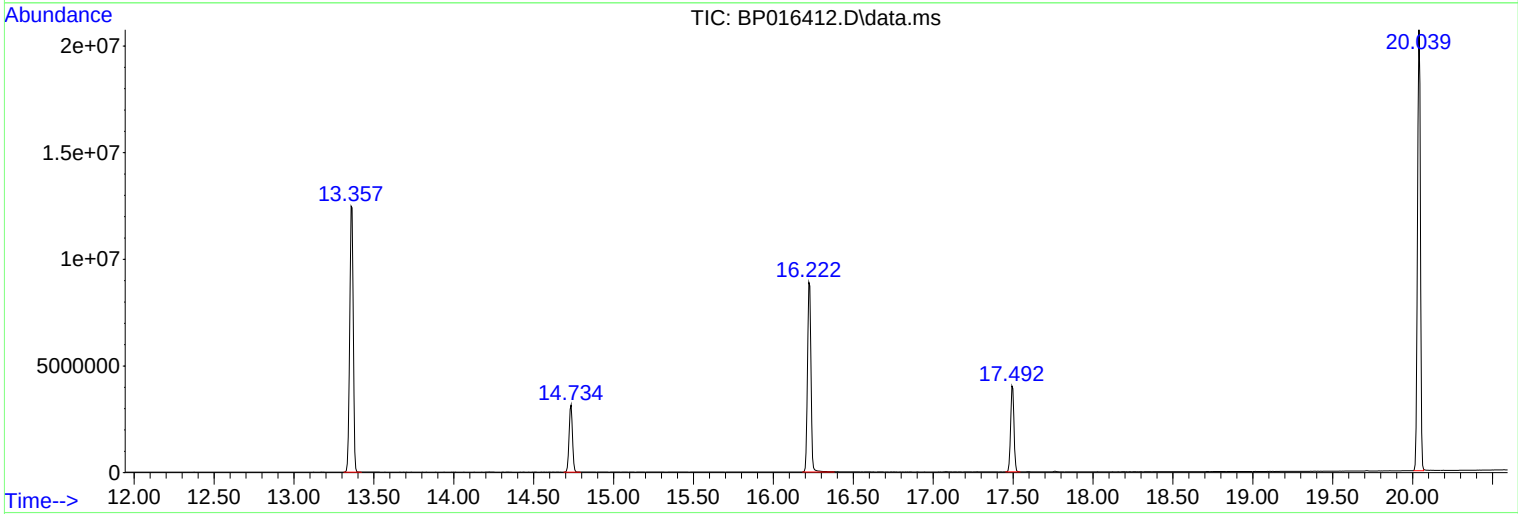
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP072823\
Data File : BP016412.D
Acq On : 28 Jul 2023 08:37
Operator : MA/JU
Sample : PB154218BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

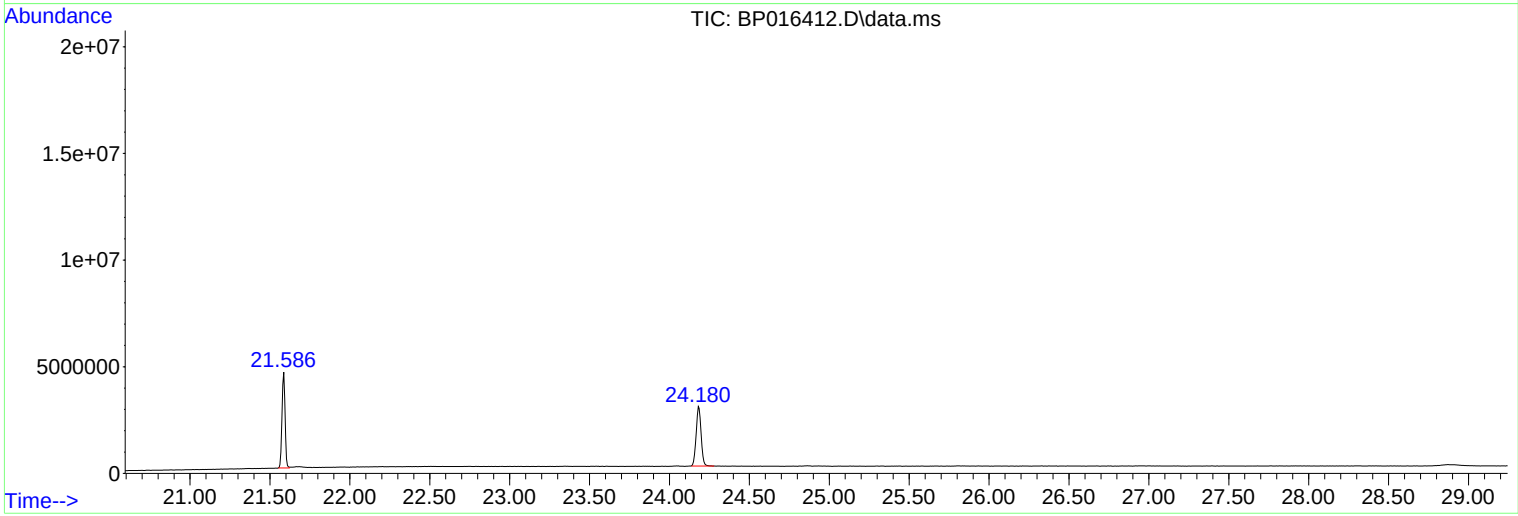
Instrument :
BNA_P
ClientSampleId :
PB154218BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP072723.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP072823\
Data File : BP016412.D
Acq On : 28 Jul 2023 08:37
Operator : MA/JU
Sample : PB154218BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
PB154218BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP072723.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

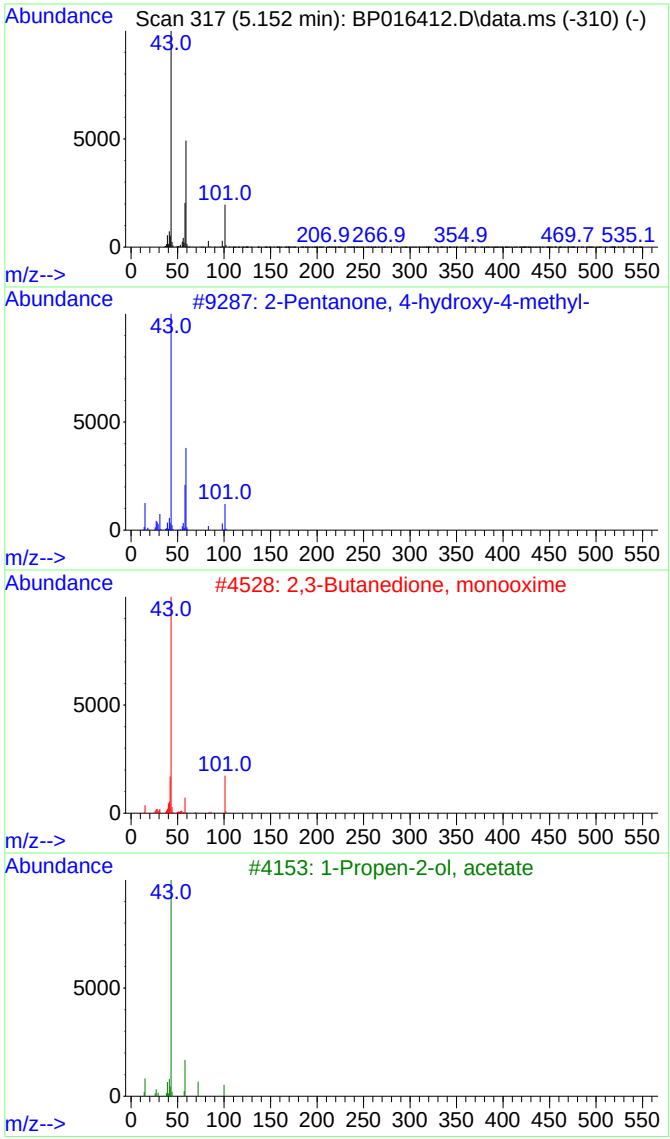
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

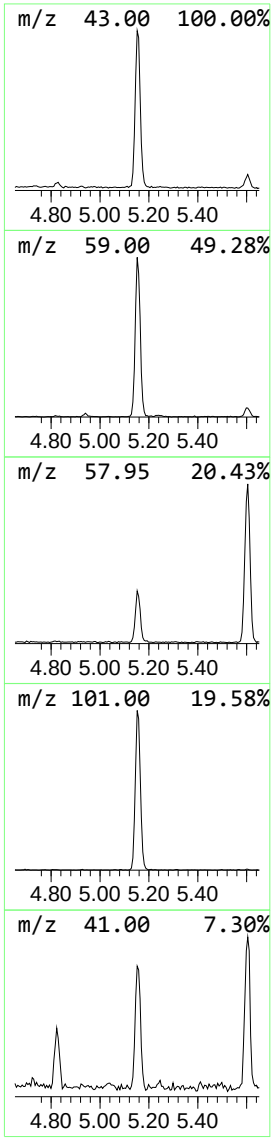
****

Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.152	2.11 ng	267613	1,4-Dichlorobenzene-d4	8.087

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	72
2	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	16
3	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	12
4	Acetone	58	C3H6O	000067-64-1	9
5	Propanenitrile, 3-ethoxy-	99	C5H9NO	002141-62-0	9





Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP072823\
Data File : BP016412.D
Acq On : 28 Jul 2023 08:37
Operator : MA/JU
Sample : PB154218BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
PB154218BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP072723.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
2-Pentanone, 4-...	5.152	2.1	ng	267613	1	8.087	2538050	20.0

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	
Project:	Mackenna Parcels	Date Received:	
Client Sample ID:	PB154258BL	SDG No.:	O3645
Lab Sample ID:	PB154258BL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF134356.D	1	07/18/23 09:45	07/19/23 13:34	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	330	U	150	330	ug/Kg
108-95-2	Phenol	170	U	74.4	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	170	U	89.8	170	ug/Kg
95-57-8	2-Chlorophenol	170	U	72.0	170	ug/Kg
95-48-7	2-Methylphenol	170	U	110	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	170	U	110	170	ug/Kg
98-86-2	Acetophenone	170	U	86.7	170	ug/Kg
65794-96-9	3+4-Methylphenols	330	U	110	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	80.0	U	59.0	80.0	ug/Kg
67-72-1	Hexachloroethane	170	U	73.6	170	ug/Kg
98-95-3	Nitrobenzene	170	U	75.2	170	ug/Kg
78-59-1	Isophorone	170	U	68.1	170	ug/Kg
88-75-5	2-Nitrophenol	170	U	95.1	170	ug/Kg
105-67-9	2,4-Dimethylphenol	170	U	99.6	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	170	U	110	170	ug/Kg
120-83-2	2,4-Dichlorophenol	170	U	78.1	170	ug/Kg
91-20-3	Naphthalene	170	U	81.4	170	ug/Kg
106-47-8	4-Chloroaniline	170	U	110	170	ug/Kg
87-68-3	Hexachlorobutadiene	170	U	84.0	170	ug/Kg
105-60-2	Caprolactam	330	U	120	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	170	U	82.5	170	ug/Kg
91-57-6	2-Methylnaphthalene	170	U	94.9	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	330	U	210	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	170	U	77.1	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	170	U	87.9	170	ug/Kg
92-52-4	1,1-Biphenyl	170	U	91.3	170	ug/Kg
91-58-7	2-Chloronaphthalene	170	U	84.6	170	ug/Kg
88-74-4	2-Nitroaniline	170	U	99.3	170	ug/Kg
131-11-3	Dimethylphthalate	170	U	88.9	170	ug/Kg
208-96-8	Acenaphthylene	170	U	88.4	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	170	U	90.0	170	ug/Kg

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	
Project:	Mackenna Parcels	Date Received:	
Client Sample ID:	PB154258BL	SDG No.:	O3645
Lab Sample ID:	PB154258BL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF134356.D	1	07/18/23 09:45	07/19/23 13:34	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
99-09-2	3-Nitroaniline	170	U	93.4	170	ug/Kg
83-32-9	Acenaphthene	170	U	80.3	170	ug/Kg
51-28-5	2,4-Dinitrophenol	330	U	180	330	ug/Kg
100-02-7	4-Nitrophenol	330	U	110	330	ug/Kg
132-64-9	Dibenzofuran	170	U	76.9	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	170	U	99.9	170	ug/Kg
84-66-2	Diethylphthalate	170	U	85.9	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	170	U	90.4	170	ug/Kg
86-73-7	Fluorene	170	U	84.8	170	ug/Kg
100-01-6	4-Nitroaniline	170	U	100	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	330	U	87.8	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	170	U	93.3	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	170	U	97.4	170	ug/Kg
118-74-1	Hexachlorobenzene	170	U	98.8	170	ug/Kg
1912-24-9	Atrazine	170	U	95.4	170	ug/Kg
87-86-5	Pentachlorophenol	330	U	110	330	ug/Kg
85-01-8	Phenanthrene	170	U	92.7	170	ug/Kg
120-12-7	Anthracene	170	U	100	170	ug/Kg
86-74-8	Carbazole	170	U	84.9	170	ug/Kg
84-74-2	Di-n-butylphthalate	170	U	100	170	ug/Kg
206-44-0	Fluoranthene	170	U	94.4	170	ug/Kg
129-00-0	Pyrene	170	U	83.7	170	ug/Kg
85-68-7	Butylbenzylphthalate	170	U	100	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	330	U	160	330	ug/Kg
56-55-3	Benzo(a)anthracene	170	U	83.9	170	ug/Kg
218-01-9	Chrysene	170	U	86.8	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	170	U	120	170	ug/Kg
117-84-0	Di-n-octyl phthalate	330	U	120	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	170	U	80.3	170	ug/Kg
207-08-9	Benzo(k)fluoranthene	170	U	88.1	170	ug/Kg
50-32-8	Benzo(a)pyrene	170	U	94.3	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	170	U	110	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	170	U	96.5	170	ug/Kg

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LaBella Associates P.C.			Date Collected:	
Project:	Mackenna Parcels			Date Received:	
Client Sample ID:	PB154258BL			SDG No.:	O3645
Lab Sample ID:	PB154258BL			Matrix:	SOIL
Analytical Method:	SW8270			% Solid:	100
Sample Wt/Vol:	30	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOCMS Group1
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF134356.D	1	07/18/23 09:45	07/19/23 13:34	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
191-24-2	Benzo(g,h,i)perylene	170	U	92.5	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	170	U	89.4	170	ug/Kg
123-91-1	1,4-Dioxane	170	U	120	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	170	U	82.9	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	163		18 - 112	109%	SPK: 150
13127-88-3	Phenol-d6	128		21 - 104	85%	SPK: 150
4165-60-0	Nitrobenzene-d5	92.1		27 - 109	92%	SPK: 100
321-60-8	2-Fluorobiphenyl	89.6		30 - 103	90%	SPK: 100
118-79-6	2,4,6-Tribromophenol	149		10 - 121	100%	SPK: 150
1718-51-0	Terphenyl-d14	84.1		21 - 107	84%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	76900	6.84			
1146-65-2	Naphthalene-d8	293000	8.116			
15067-26-2	Acenaphthene-d10	157000	9.875			
1517-22-2	Phenanthrene-d10	314000	11.369			
1719-03-5	Chrysene-d12	231000	14.033			
1520-96-3	Perylene-d12	205000	15.539			
TENTATIVE IDENTIFIED COMPOUNDS						
000763-93-9	3-Hexen-2-one	2300	J		4.49	ug/Kg
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	3500	A		5.10	ug/Kg
000107-70-0	2-Pentanone, 4-methoxy-4-methyl-	78.7	J		5.86	ug/Kg
000791-28-6	Triphenylphosphine oxide	74.0	J		14.1	ug/Kg

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

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF071923\
Data File : BF134356.D
Acq On : 19 Jul 2023 13:34
Operator : CG\JU
Sample : PB154258BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB154258BL

Quant Time: Jul 19 13:57:31 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF062623.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 14 22:51:27 2023
Response via : Initial Calibration

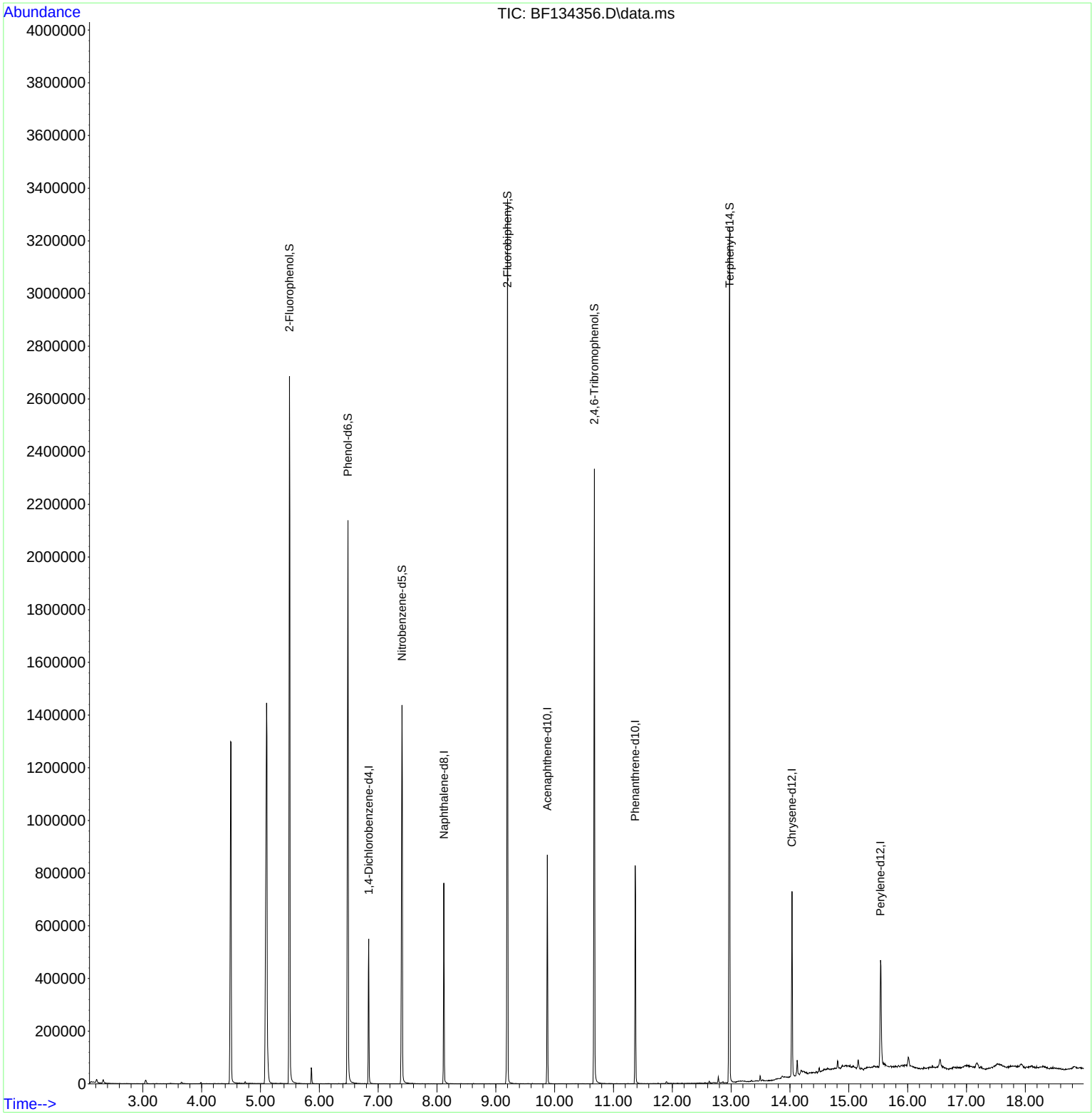
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.840	152	76908	20.000	ng	0.00
21) Naphthalene-d8	8.116	136	293261	20.000	ng	0.00
39) Acenaphthene-d10	9.875	164	157065	20.000	ng	0.00
64) Phenanthrene-d10	11.369	188	314062	20.000	ng	0.00
76) Chrysene-d12	14.033	240	230557	20.000	ng	0.00
86) Perylene-d12	15.539	264	204908	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.493	112	749938	163.113	ng	0.02
7) Phenol-d6	6.487	99	724333	128.105	ng	0.00
23) Nitrobenzene-d5	7.404	82	501068	92.103	ng	0.00
42) 2,4,6-Tribromophenol	10.675	330	294034	149.310	ng	0.00
45) 2-Fluorobiphenyl	9.198	172	968305	89.632	ng	0.00
79) Terphenyl-d14	12.975	244	1204242	84.063	ng	0.00
Target Compounds						Qvalue

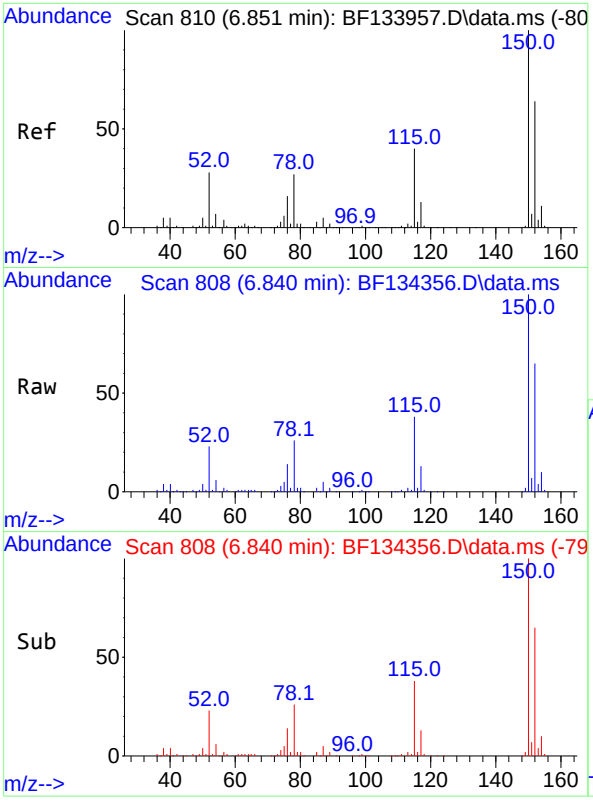
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF071923\
Data File : BF134356.D
Acq On : 19 Jul 2023 13:34
Operator : CG\JU
Sample : PB154258BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB154258BL

Quant Time: Jul 19 13:57:31 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF062623.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 14 22:51:27 2023
Response via : Initial Calibration



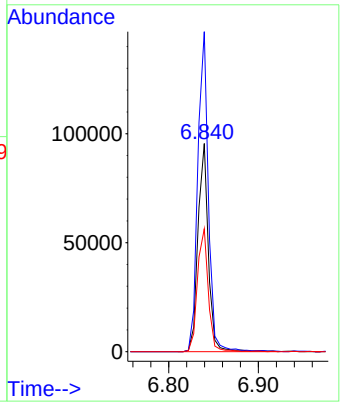


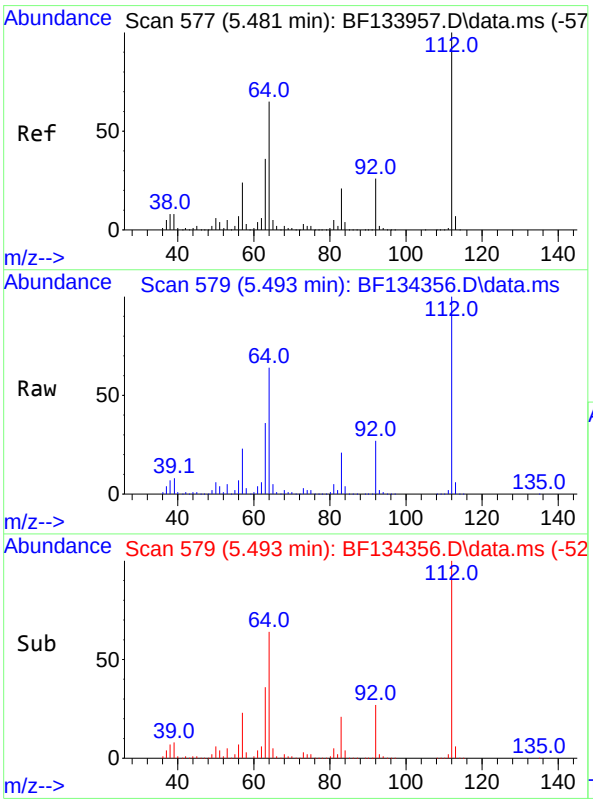
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.840 min Scan# 8
Delta R.T. -0.005 min
Lab File: BF134356.D
Acq: 19 Jul 2023 13:34

Instrument :
BNA_F
ClientSampleId :
PB154258BL

Tgt Ion:152 Resp: 76908

Ion	Ratio	Lower	Upper
152	100		
150	153.7	124.5	186.7
115	59.0	50.2	75.2

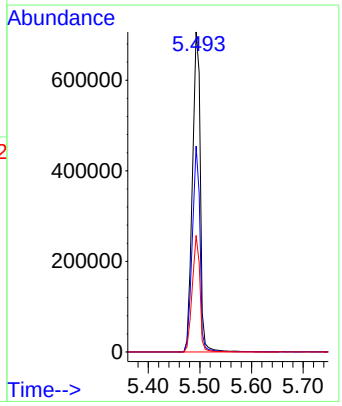


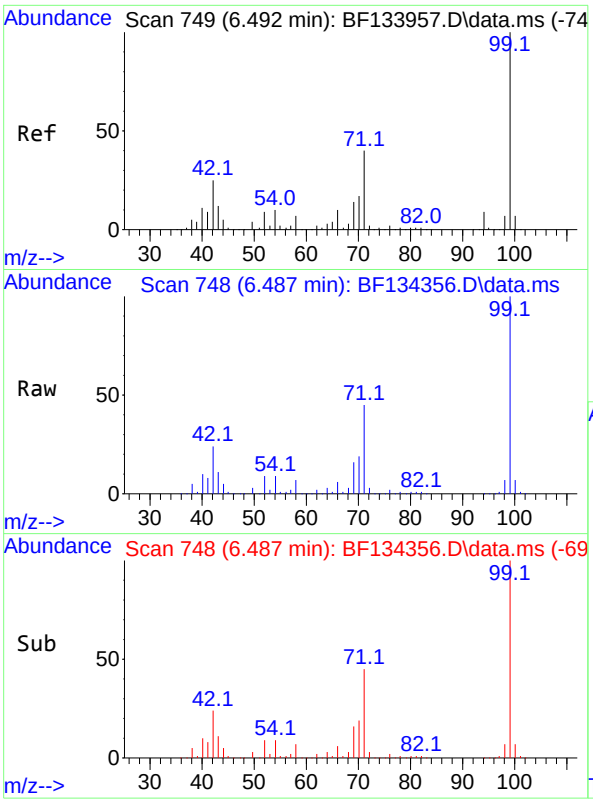


#5
2-Fluorophenol
Concen: 163.113 ng
RT: 5.493 min Scan# 579
Delta R.T. 0.024 min
Lab File: BF134356.D
Acq: 19 Jul 2023 13:34

Tgt Ion:112 Resp: 749938

Ion	Ratio	Lower	Upper
112	100		
64	64.3	52.1	78.1
63	36.4	28.6	42.8



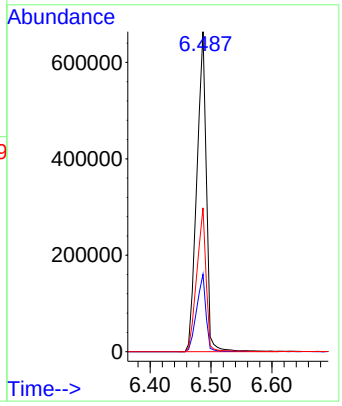


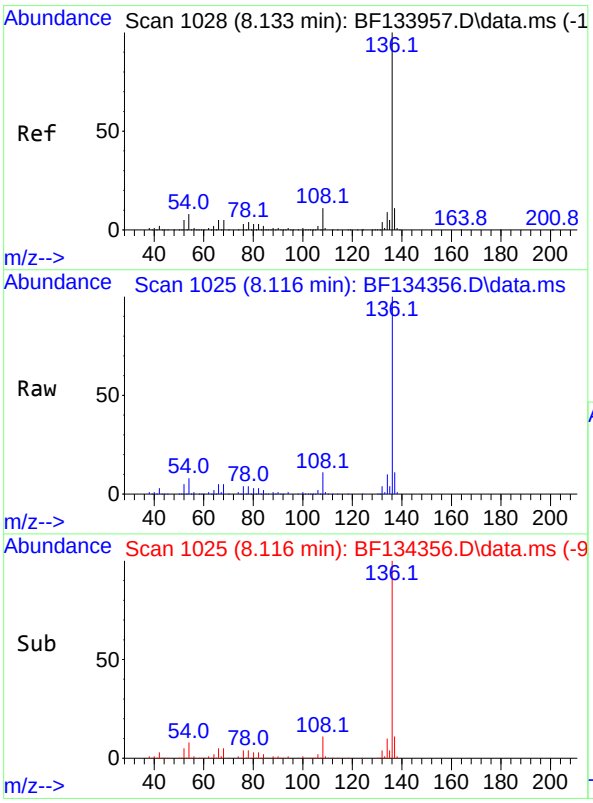
#7
Phenol-d6
Concen: 128.105 ng
RT: 6.487 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF134356.D
Acq: 19 Jul 2023 13:34

Instrument :
BNA_F
ClientSampleId :
PB154258BL

Tgt Ion: 99 Resp: 724333

Ion	Ratio	Lower	Upper
99	100		
42	24.2	19.8	29.6
71	44.9	31.9	47.9

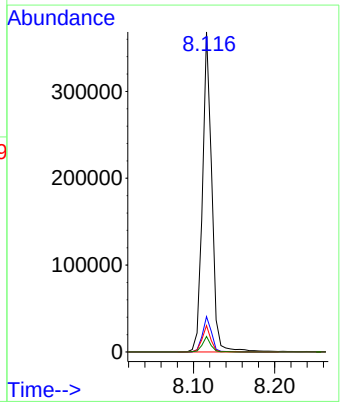


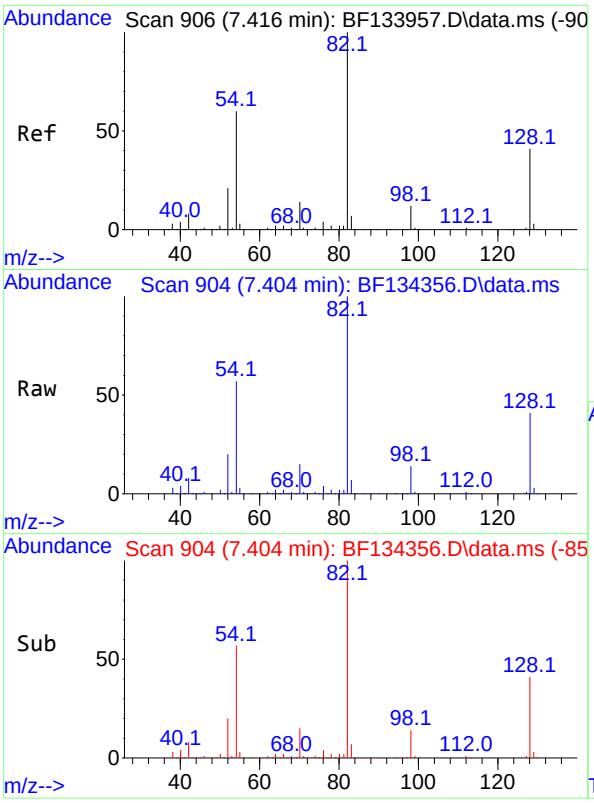


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.116 min Scan# 1025
Delta R.T. -0.006 min
Lab File: BF134356.D
Acq: 19 Jul 2023 13:34

Tgt Ion:136 Resp: 293261

Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.6	12.8
54	8.3	6.5	9.7
68	4.8	4.2	6.2



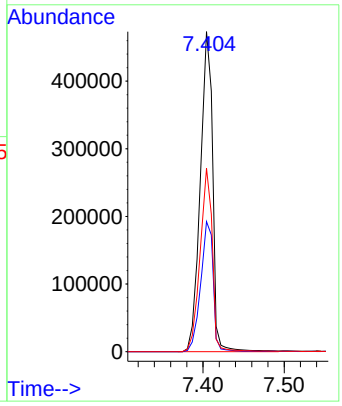


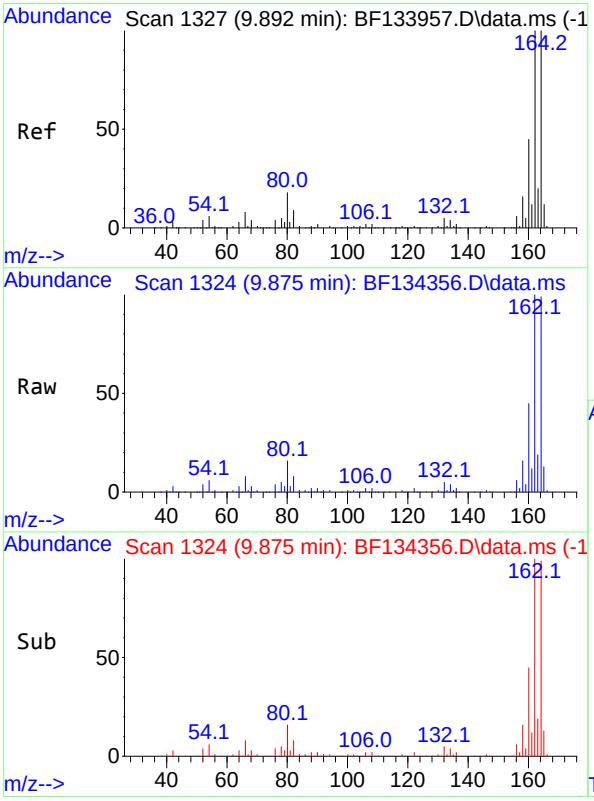
#23
Nitrobenzene-d5
Concen: 92.103 ng
RT: 7.404 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF134356.D
Acq: 19 Jul 2023 13:34

Instrument :
BNA_F
ClientSampleId :
PB154258BL

Tgt Ion: 82 Resp: 501068

Ion	Ratio	Lower	Upper
82	100		
128	40.6	32.5	48.7
54	57.3	48.2	72.2

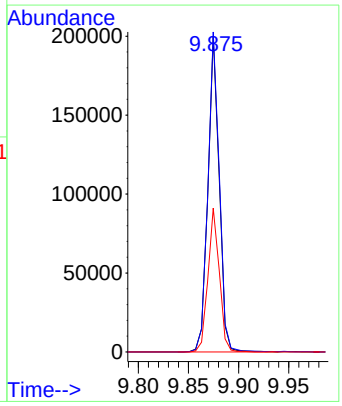


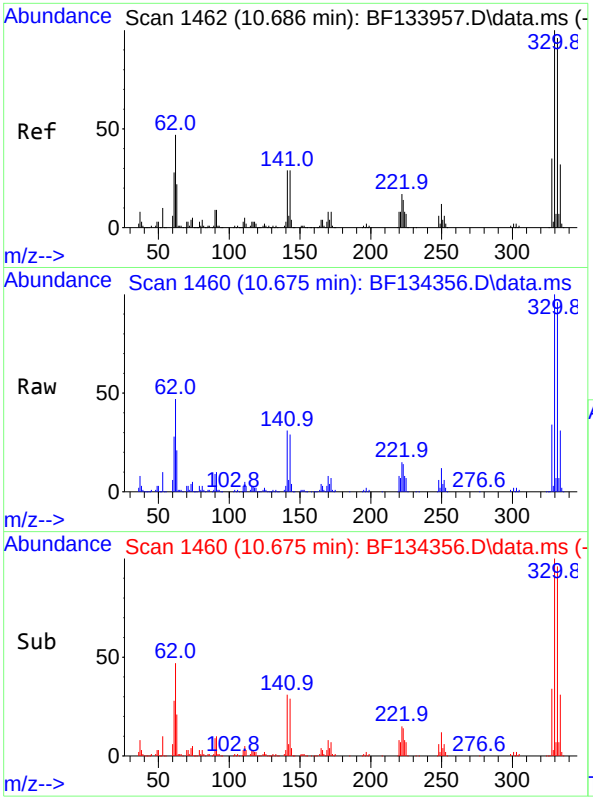


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.875 min Scan# 1324
Delta R.T. -0.006 min
Lab File: BF134356.D
Acq: 19 Jul 2023 13:34

Tgt Ion:164 Resp: 157065

Ion	Ratio	Lower	Upper
164	100		
162	101.2	80.0	120.0
160	45.5	35.9	53.9



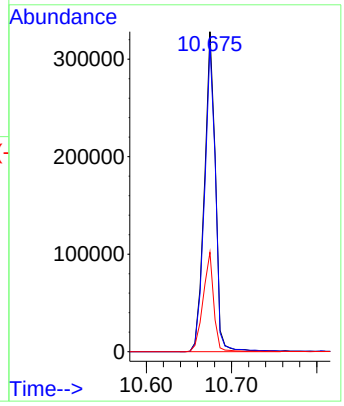


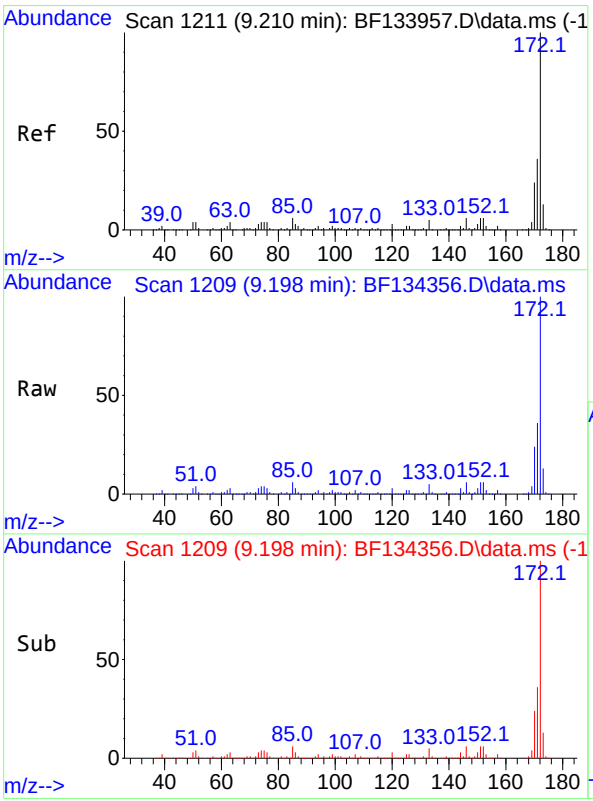
#42
2,4,6-Tribromophenol
Concen: 149.310 ng
RT: 10.675 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF134356.D
Acq: 19 Jul 2023 13:34

Instrument :
BNA_F
ClientSampleId :
PB154258BL

Tgt Ion:330 Resp: 294034

Ion	Ratio	Lower	Upper
330	100		
332	96.1	77.0	115.6
141	30.1	26.3	39.5

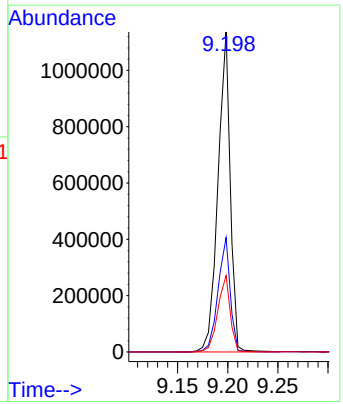


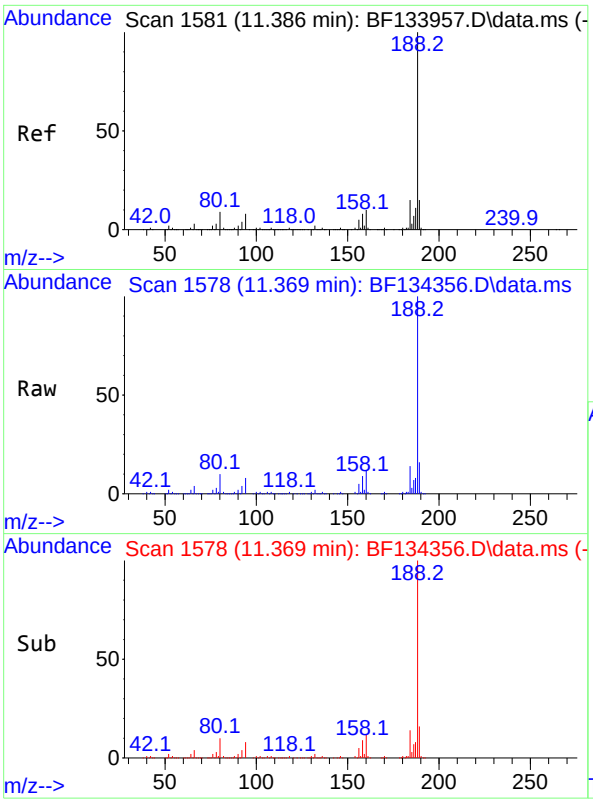


#45
2-Fluorobiphenyl
Concen: 89.632 ng
RT: 9.198 min Scan# 1209
Delta R.T. -0.006 min
Lab File: BF134356.D
Acq: 19 Jul 2023 13:34

Tgt Ion:172 Resp: 968305

Ion	Ratio	Lower	Upper
172	100		
171	35.8	28.6	43.0
170	23.9	19.4	29.0



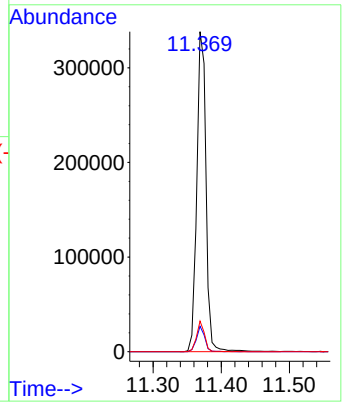


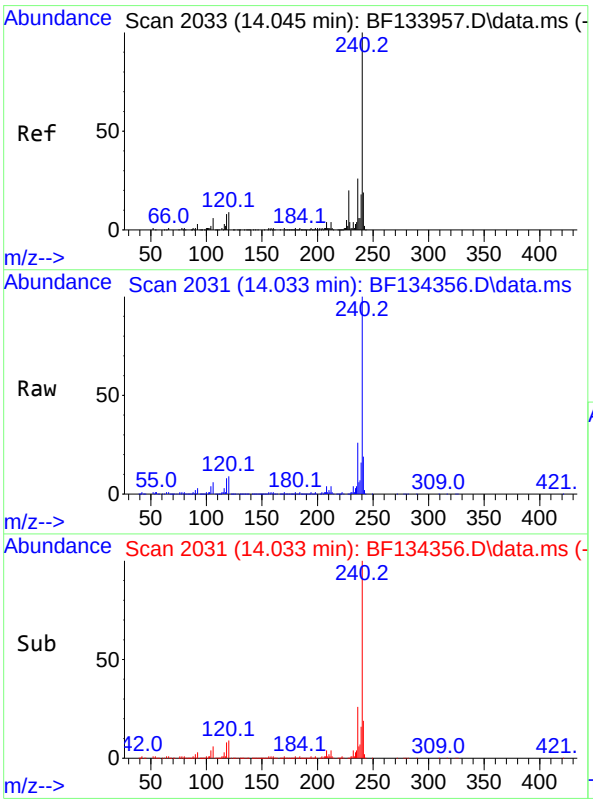
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.369 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF134356.D
Acq: 19 Jul 2023 13:34

Instrument :
BNA_F
ClientSampleId :
PB154258BL

Tgt Ion:188 Resp: 314062

Ion	Ratio	Lower	Upper
188	100		
94	7.9	6.4	9.6
80	9.5	7.3	10.9

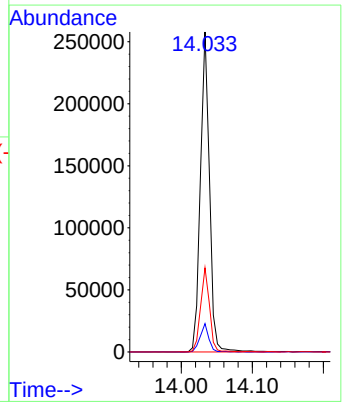


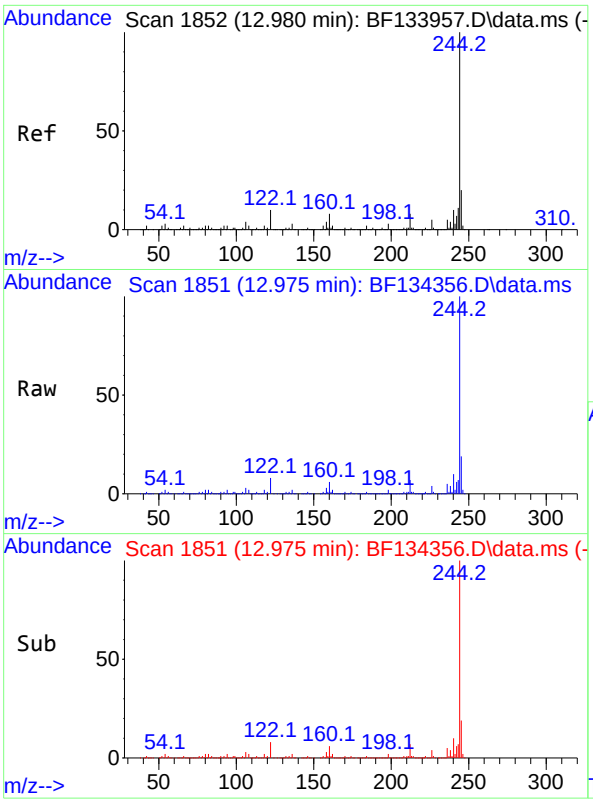


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.033 min Scan# 2031
Delta R.T. -0.006 min
Lab File: BF134356.D
Acq: 19 Jul 2023 13:34

Tgt Ion:240 Resp: 230557

Ion	Ratio	Lower	Upper
240	100		
120	8.8	7.4	11.0
236	26.3	21.0	31.6



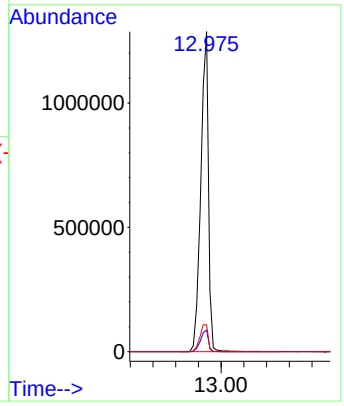


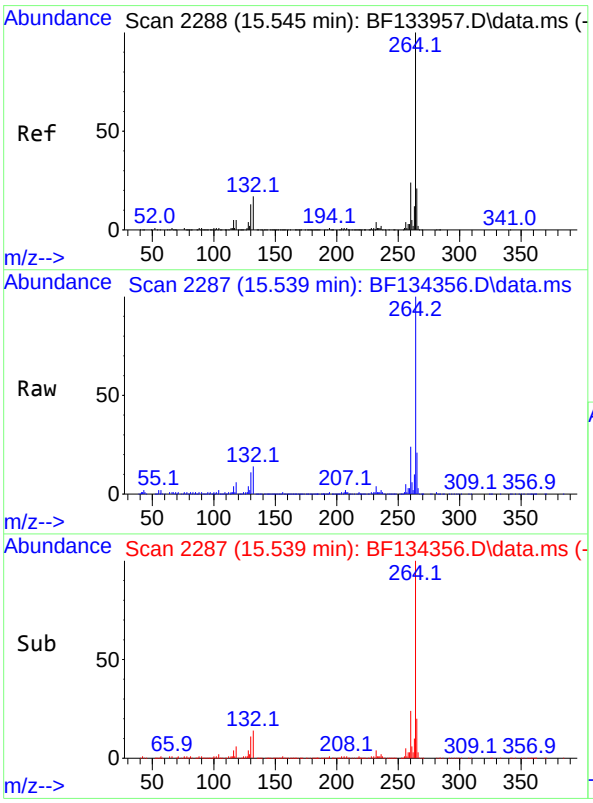
#79
Terphenyl-d14
Concen: 84.063 ng
RT: 12.975 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134356.D
Acq: 19 Jul 2023 13:34

Instrument :
BNA_F
ClientSampleId :
PB154258BL

Tgt Ion:244 Resp: 1204242

Ion	Ratio	Lower	Upper
244	100		
212	6.8	6.0	9.0
122	8.4	8.3	12.5

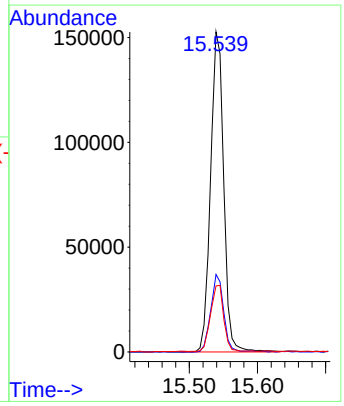




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.539 min Scan# 2287
Delta R.T. -0.006 min
Lab File: BF134356.D
Acq: 19 Jul 2023 13:34

Tgt Ion:264 Resp: 204908

Ion	Ratio	Lower	Upper
264	100		
260	24.2	19.5	29.3
265	20.7	16.6	25.0



Sample Results: **BF134356.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF071923\
Data File : BF134356.D
Acq On : 19 Jul 2023 13:34
Operator : CG\JU
Sample : PB154258BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB154258BL

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF062623.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF134356.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.493	404	409	413	rBV	1298212	1606678	51.32%	7.139%
2	5.104	505	513	530	rBV	1444484	2387987	76.27%	10.610%
3	5.493	574	579	582	rBV	2683908	2742327	87.59%	12.185%
4	5.863	639	642	647	rBV	61368	54217	1.73%	0.241%
5	6.487	743	748	751	rBV	2136118	2255399	72.04%	10.021%
6	6.840	804	808	823	rVB	550156	460015	14.69%	2.044%
7	7.404	899	904	907	rBV	1437259	1484957	47.43%	6.598%
8	8.116	1021	1025	1029	rBV	761474	588646	18.80%	2.616%
9	9.198	1202	1209	1212	rBV	3358077	2857643	91.27%	12.697%
10	9.875	1320	1324	1328	rBV	868000	684429	21.86%	3.041%
11	10.675	1455	1460	1463	rBV	2334198	2056371	65.68%	9.137%
12	11.369	1574	1578	1582	rBV	827818	744539	23.78%	3.308%
13	12.975	1845	1851	1854	rBV	3247524	3130852	100.00%	13.911%
14	14.033	2027	2031	2039	rBV	702215	628523	20.08%	2.793%
15	14.122	2041	2046	2050	rBV	59541	69699	2.23%	0.310%
16	15.163	2219	2223	2229	rVB	35601	50682	1.62%	0.225%
17	15.539	2282	2287	2294	rBV2	407370	607028	19.39%	2.697%
18	16.010	2364	2367	2372	rVB	34124	51541	1.65%	0.229%
19	16.551	2455	2459	2464	rVB2	27109	44377	1.42%	0.197%

Sum of corrected areas: 22505910

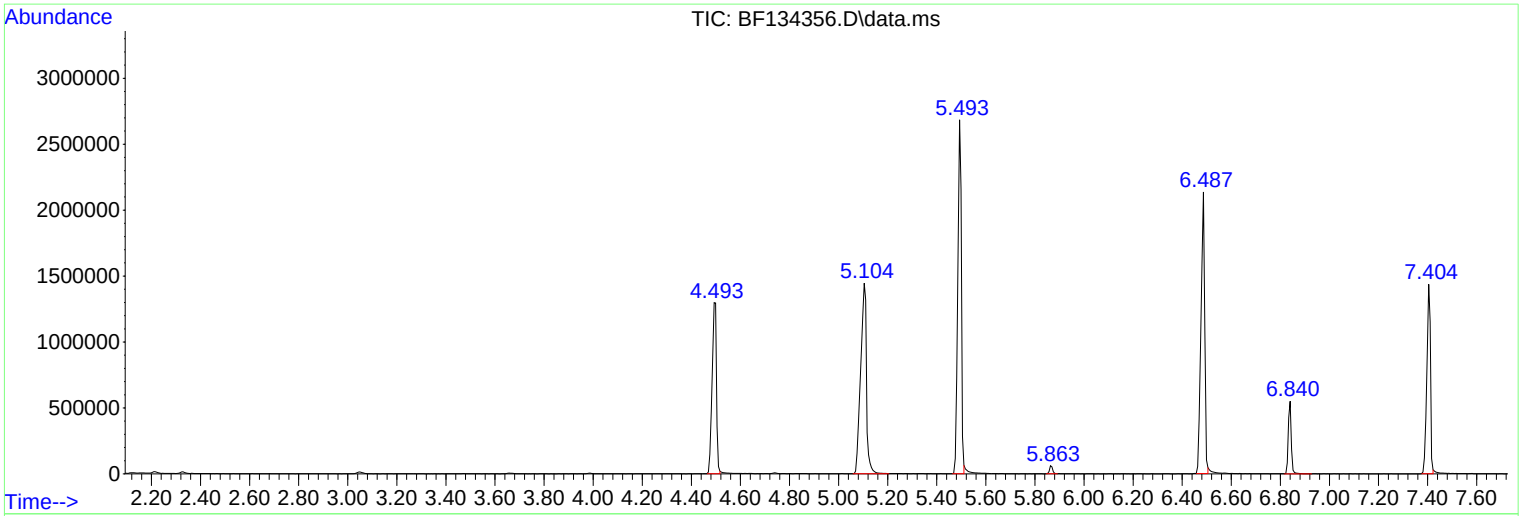
Sample Results: **BF134356.D**

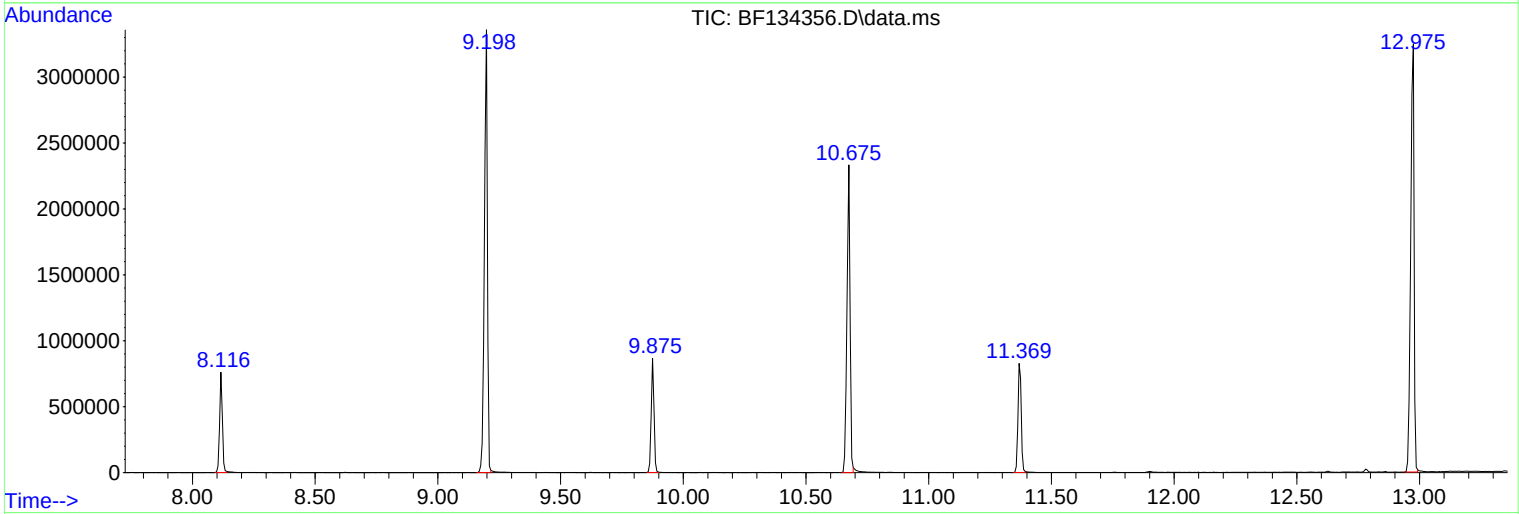
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF071923\
Data File : BF134356.D
Acq On : 19 Jul 2023 13:34
Operator : CG\JU
Sample : PB154258BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

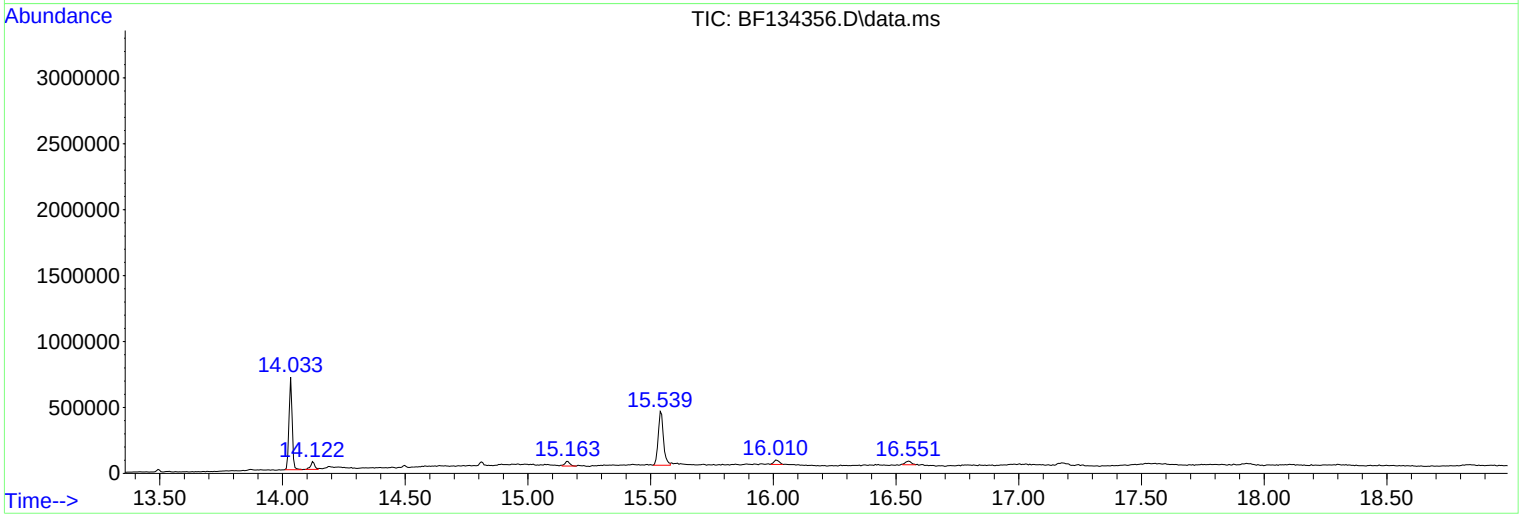
Instrument :
BNA_F
ClientSampleId :
PB154258BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF062623.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF071923\
Data File : BF134356.D
Acq On : 19 Jul 2023 13:34
Operator : CG\JU
Sample : PB154258BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB154258BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF062623.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

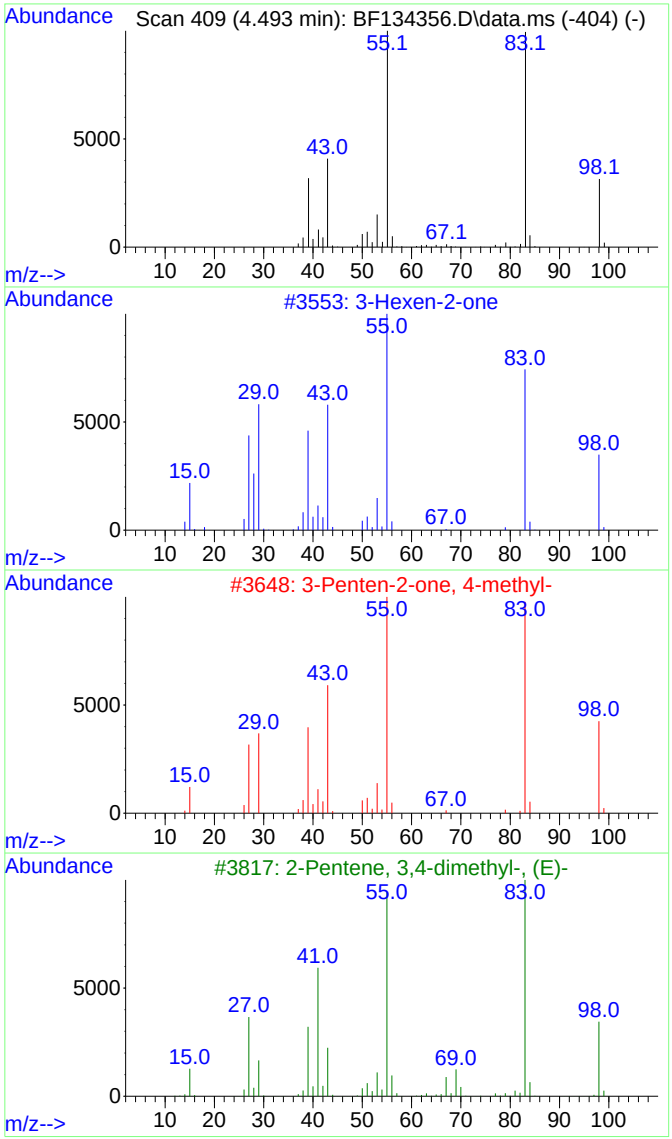
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

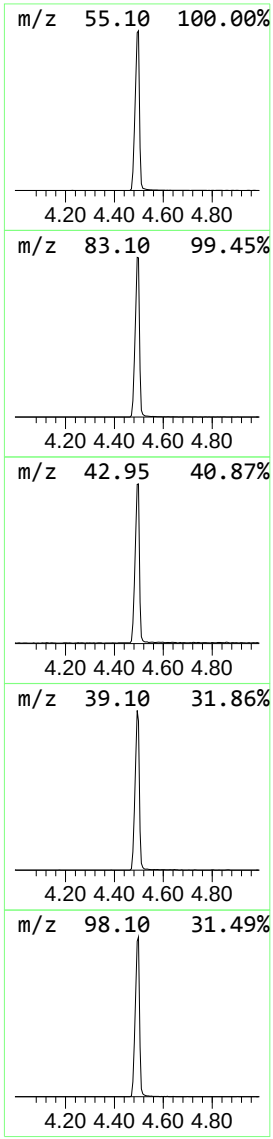
****

Peak Number 1 3-Hexen-2-one Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.493	69.85 ng	1606680	1,4-Dichlorobenzene-d4	6.840

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Hexen-2-one	98	C6H10O	000763-93-9	91
2	3-Penten-2-one, 4-methyl-	98	C6H10O	000141-79-7	91
3	2-Pentene, 3,4-dimethyl-, (E)-	98	C7H14	004914-92-5	90
4	2-Pentene, 4,4-dimethyl-, (E)-	98	C7H14	000690-08-4	86
5	2-Pentene, 3,4-dimethyl-, (Z)-	98	C7H14	004914-91-4	86





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF071923\
Data File : BF134356.D
Acq On : 19 Jul 2023 13:34
Operator : CG\JU
Sample : PB154258BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB154258BL

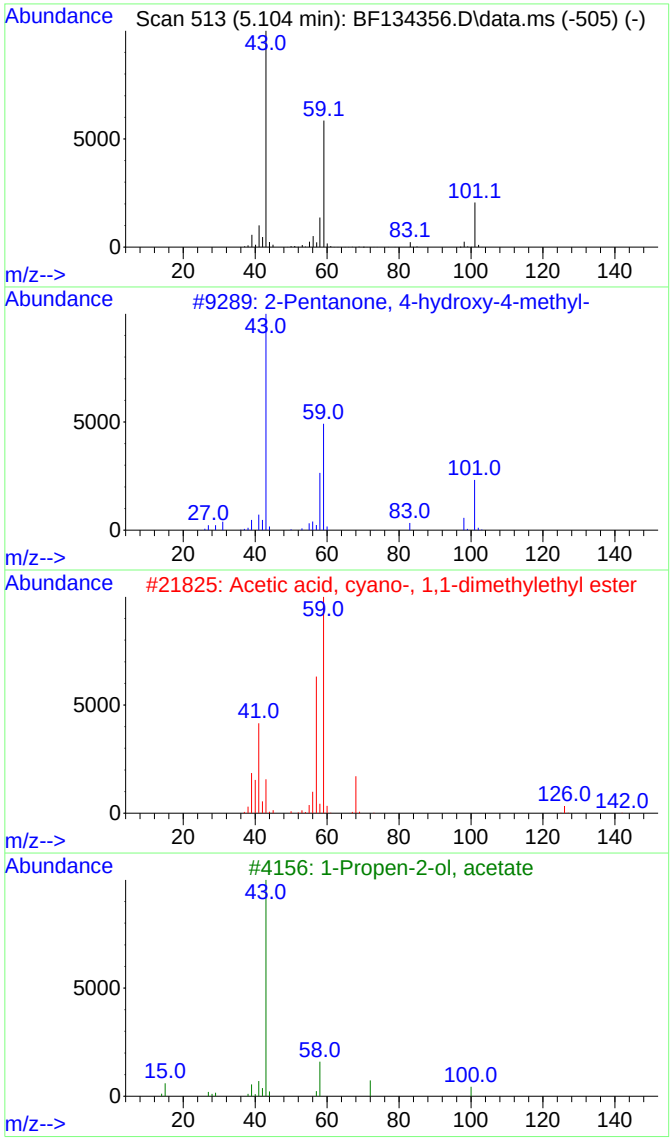
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF062623.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

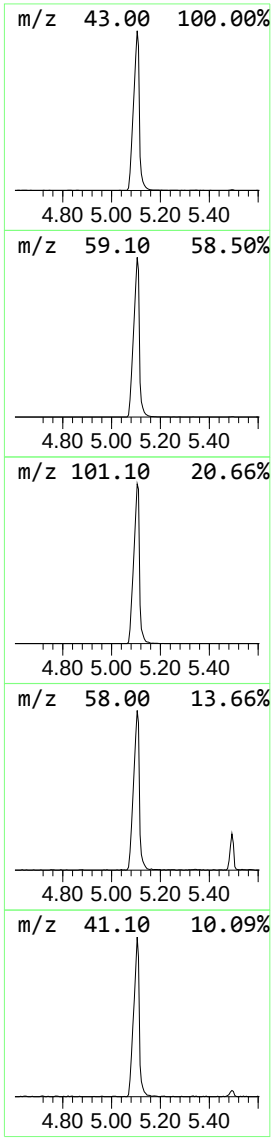
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 2 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.104	103.82 ng	2387990	1,4-Dichlorobenzene-d4	6.840

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	72
2	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	23
3	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	10
4	Morpholine, 4-methyl-	101	C5H11NO	000109-02-4	9
5	Acetic acid, 1,1-dimethylethyl e...	116	C6H12O2	000540-88-5	9





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF071923\
Data File : BF134356.D
Acq On : 19 Jul 2023 13:34
Operator : CG\JU
Sample : PB154258BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB154258BL

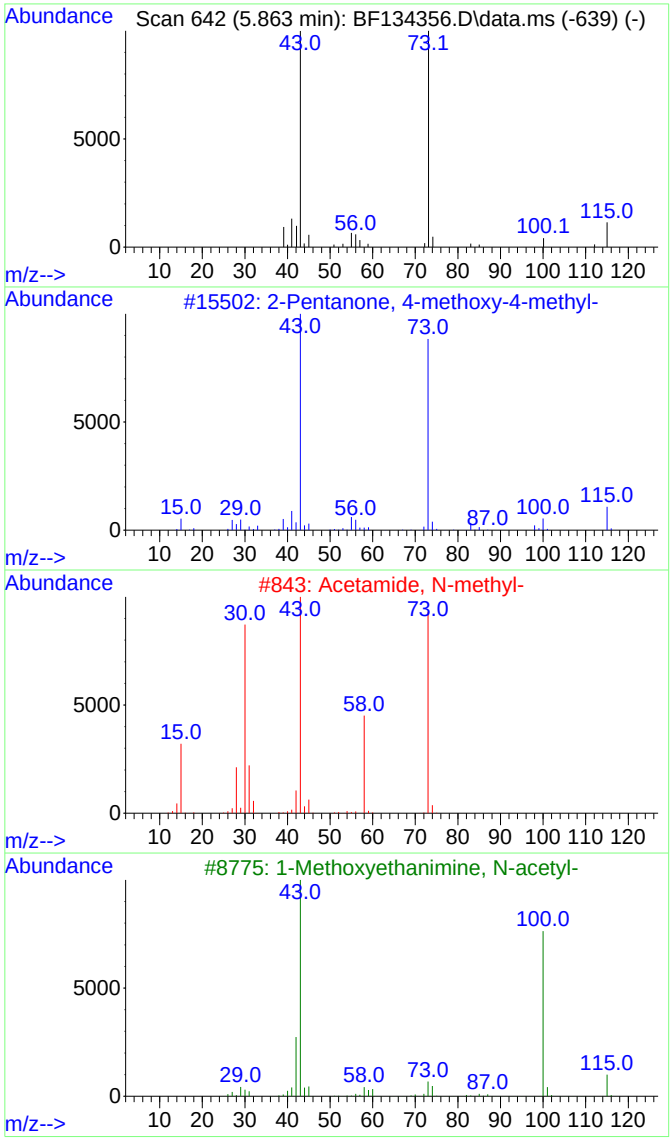
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF062623.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

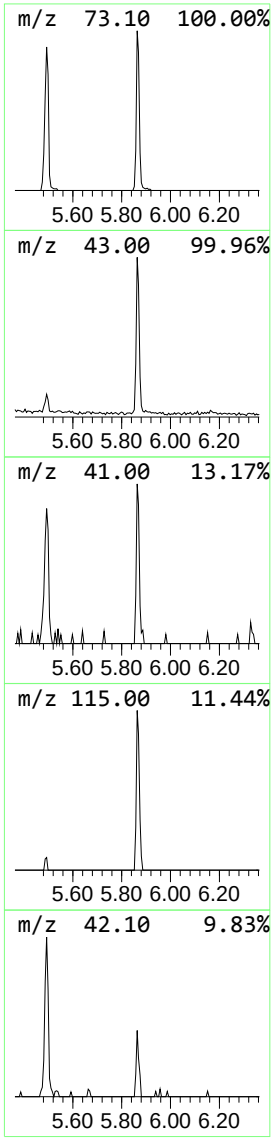
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 3 2-Pentanone, 4-methoxy-4-me... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.863	2.36 ng	54217	1,4-Dichlorobenzene-d4	6.840

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-methoxy-4-methyl-	130	C7H14O2	000107-70-0	72
2	Acetamide, N-methyl-	73	C3H7NO	000079-16-3	53
3	1-Methoxyethanimine, N-acetyl-	115	C5H9NO2	099028-43-0	37
4	3-Pentanol, 2,4-dimethyl-	116	C7H16O	000600-36-2	10
5	N-Ethylformamide	73	C3H7NO	000627-45-2	9





```
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF071923\
Data File : BF134356.D
Acq On    : 19 Jul 2023  13:34
Operator  : CG\JU
Sample    : PB154258BL
Misc      :
ALS Vial  : 3   Sample Multiplier: 1

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF062623.M
Quant Title  : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library   : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P
```

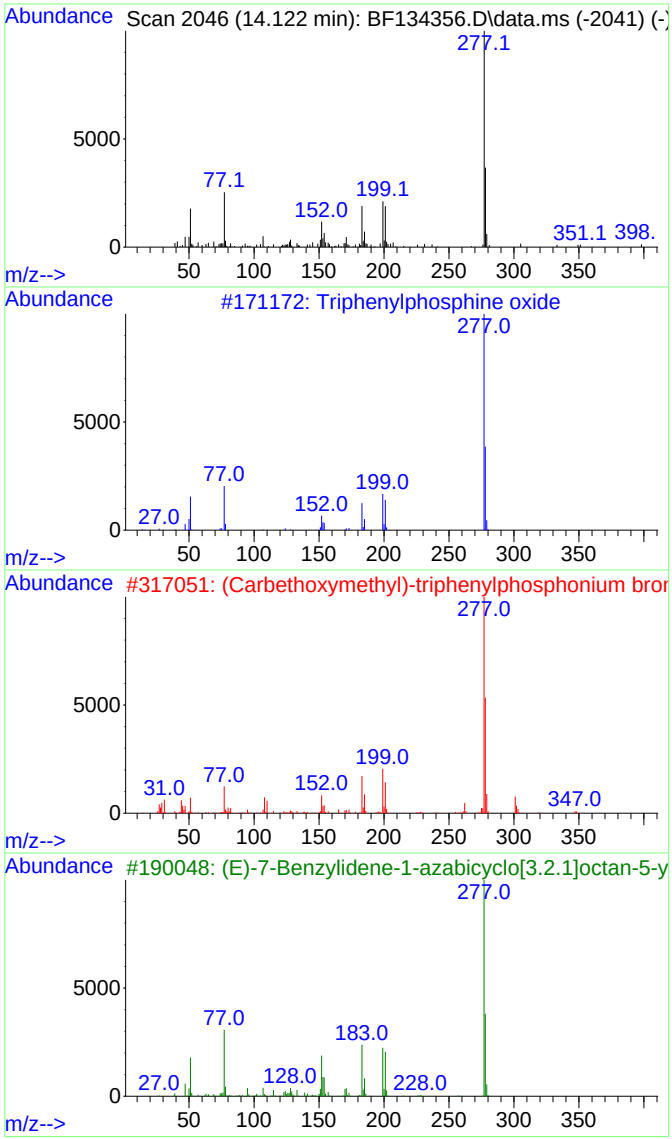
Instrument :
BNA_F
ClientSampleId :
PB154258BL

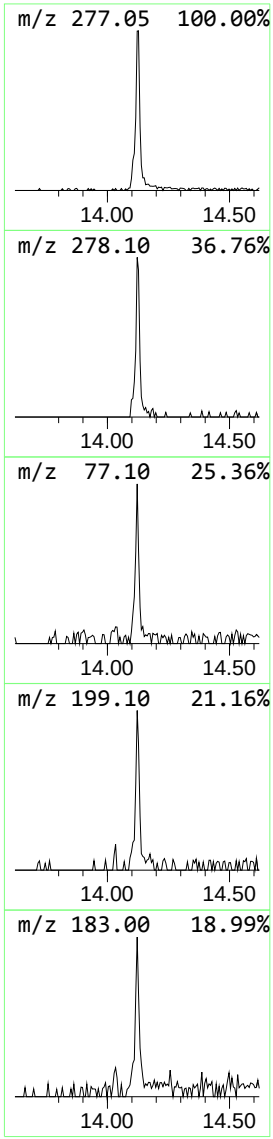
****

Peak Number 4 Triphenylphosphine oxide Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.121	2.22 ng	69699	Chrysene-d12	14.033

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Triphenylphosphine oxide	278	C18H15OP	000791-28-6	98
2	(Carbethoxymethyl)-triphenylphos...	428	C22H22BrO2P	001530-45-6	64
3	(E)-7-Benzylidene-1-azabicyclo[3...	293	C15H19NO3S	1000483-83-4	50
4	Formaldehyde, (triphenylphosphor...	304	C19H17N2P	015990-54-2	45
5	Cobalt,(.eta.<5>-2,4-cyclopentad...	277	C16H15BCo	036682-12-9	43





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF071923\
Data File : BF134356.D
Acq On : 19 Jul 2023 13:34
Operator : CG\JU
Sample : PB154258BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB154258BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF062623.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
3-Hexen-2-one	4.493	69.8	ng	1606680	1	6.840	460015	20.0
2-Pentanone, 4-...	5.104	103.8	ng	2387990	1	6.840	460015	20.0
2-Pentanone, 4-...	5.863	2.4	ng	54217	1	6.840	460015	20.0
Triphenylphosph...	14.121	2.2	ng	69699	5	14.033	628523	20.0

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	
Project:	Mackenna Parcels	Date Received:	
Client Sample ID:	PB154218BS	SDG No.:	O3645
Lab Sample ID:	PB154218BS	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP016413.D	1	07/17/23 08:30	07/28/23 09:12	PB154218

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	59.7		3.30	10.0	ug/L
108-95-2	Phenol	56.9		1.50	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	50.5		1.70	5.00	ug/L
95-57-8	2-Chlorophenol	54.9		1.40	5.00	ug/L
95-48-7	2-Methylphenol	52.0		2.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	52.9		2.30	5.00	ug/L
98-86-2	Acetophenone	48.6		1.80	5.00	ug/L
65794-96-9	3+4-Methylphenols	52.1		2.20	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	49.9		2.00	2.50	ug/L
67-72-1	Hexachloroethane	53.2		1.60	5.00	ug/L
98-95-3	Nitrobenzene	49.5		1.70	5.00	ug/L
78-59-1	Isophorone	47.8		1.70	5.00	ug/L
88-75-5	2-Nitrophenol	45.3		2.40	5.00	ug/L
105-67-9	2,4-Dimethylphenol	52.7		3.00	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	48.8		2.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	51.7		1.70	5.00	ug/L
91-20-3	Naphthalene	47.5		1.70	5.00	ug/L
106-47-8	4-Chloroaniline	31.3		2.50	5.00	ug/L
87-68-3	Hexachlorobutadiene	44.3		1.90	5.00	ug/L
105-60-2	Caprolactam	50.3		3.40	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	51.6		1.80	5.00	ug/L
91-57-6	2-Methylnaphthalene	45.5		2.20	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	120	E	5.70	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	50.3		1.50	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	46.4		1.60	5.00	ug/L
92-52-4	1,1-Biphenyl	47.6		1.80	5.00	ug/L
91-58-7	2-Chloronaphthalene	49.1		1.60	5.00	ug/L
88-74-4	2-Nitroaniline	52.6		2.40	5.00	ug/L
131-11-3	Dimethylphthalate	47.3		1.90	5.00	ug/L
208-96-8	Acenaphthylene	48.1		2.10	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	49.4		2.10	5.00	ug/L

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	
Project:	Mackenna Parcels	Date Received:	
Client Sample ID:	PB154218BS	SDG No.:	O3645
Lab Sample ID:	PB154218BS	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP016413.D	1	07/17/23 08:30	07/28/23 09:12	PB154218

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	40.2		2.40	5.00	ug/L
83-32-9	Acenaphthene	48.1		1.70	5.00	ug/L
51-28-5	2,4-Dinitrophenol	93.2	E	5.50	10.0	ug/L
100-02-7	4-Nitrophenol	120	E	2.80	10.0	ug/L
132-64-9	Dibenzofuran	46.8		1.60	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	52.3		2.50	5.00	ug/L
84-66-2	Diethylphthalate	48.0		2.10	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	45.5		2.20	5.00	ug/L
86-73-7	Fluorene	47.6		2.00	5.00	ug/L
100-01-6	4-Nitroaniline	49.0		2.30	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	48.5		1.80	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	49.8		2.00	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	46.5		2.00	5.00	ug/L
118-74-1	Hexachlorobenzene	47.2		1.90	5.00	ug/L
1912-24-9	Atrazine	60.9		3.50	5.00	ug/L
87-86-5	Pentachlorophenol	90.7	E	2.60	10.0	ug/L
85-01-8	Phenanthrene	49.8		2.00	5.00	ug/L
120-12-7	Anthracene	50.0		2.30	5.00	ug/L
86-74-8	Carbazole	51.7		1.70	5.00	ug/L
84-74-2	Di-n-butylphthalate	51.7		2.40	5.00	ug/L
206-44-0	Fluoranthene	48.9		2.10	5.00	ug/L
129-00-0	Pyrene	50.6		1.90	5.00	ug/L
85-68-7	Butylbenzylphthalate	54.1		2.80	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	42.2		5.40	10.0	ug/L
56-55-3	Benzo(a)anthracene	49.4		1.50	5.00	ug/L
218-01-9	Chrysene	48.3		1.60	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	53.5		2.90	5.00	ug/L
117-84-0	Di-n-octyl phthalate	54.7		3.10	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	54.0		1.50	5.00	ug/L
207-08-9	Benzo(k)fluoranthene	53.9		1.90	5.00	ug/L
50-32-8	Benzo(a)pyrene	48.7		2.70	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	49.3		2.10	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	49.8		2.00	5.00	ug/L

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	
Project:	Mackenna Parcels	Date Received:	
Client Sample ID:	PB154218BS	SDG No.:	O3645
Lab Sample ID:	PB154218BS	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP016413.D	1	07/17/23 08:30	07/28/23 09:12	PB154218

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
191-24-2	Benzo(g,h,i)perylene	48.3		1.90	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	45.3		2.10	5.00	ug/L
123-91-1	1,4-Dioxane	40.6		2.40	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	48.7		1.30	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	175		10 - 139	116%	SPK: 150
13127-88-3	Phenol-d6	166		10 - 134	111%	SPK: 150
4165-60-0	Nitrobenzene-d5	107		49 - 133	107%	SPK: 100
321-60-8	2-Fluorobiphenyl	101		52 - 132	101%	SPK: 100
118-79-6	2,4,6-Tribromophenol	135		45 - 141	90%	SPK: 150
1718-51-0	Terphenyl-d14	113		45 - 142	113%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	349000	8.093			
1146-65-2	Naphthalene-d8	1480000	10.922			
15067-26-2	Acenaphthene-d10	906000	14.734			
1517-22-2	Phenanthrene-d10	1940000	17.498			
1719-03-5	Chrysene-d12	1800000	21.586			
1520-96-3	Perylene-d12	1920000	24.186			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP072823\
Data File : BP016413.D
Acq On : 28 Jul 2023 09:12
Operator : MA/JU
Sample : PB154218BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 28 09:42:23 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP072723.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 28 01:48:25 2023
Response via : Initial Calibration

Instrument :
BNA_P
ClientSampleId :
PB154218BS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	8.093	152	349249	20.000	ng		0.00
21) Naphthalene-d8	10.922	136	1482472	20.000	ng		0.00
39) Acenaphthene-d10	14.734	164	905687	20.000	ng		0.00
64) Phenanthrene-d10	17.498	188	1936048	20.000	ng		0.00
76) Chrysene-d12	21.586	240	1800693	20.000	ng	#	0.00
86) Perylene-d12	24.186	264	1921990	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.605	112	3740829	174.742	ng		0.00
7) Phenol-d6	7.228	99	4876401	166.186	ng		0.00
23) Nitrobenzene-d5	9.287	82	2835785	107.080	ng		0.00
42) 2,4,6-Tribromophenol	16.228	330	1794162	134.657	ng		0.00
45) 2-Fluorobiphenyl	13.363	172	6363208	100.727	ng		0.00
79) Terphenyl-d14	20.039	244	9627065	112.937	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.458	88	339114	40.616	ng		97
3) Pyridine	3.870	79	973075	38.989	ng		98
4) n-Nitrosodimethylamine	3.799	42	469006	49.842	ng		95
6) Aniline	7.422	93	1705082	47.045	ng		98
8) 2-Chlorophenol	7.646	128	1231360	54.859	ng		97
9) Benzaldehyde	7.240	77	705420	59.679	ng		98
10) Phenol	7.258	94	1620333	56.863	ng		99
11) bis(2-Chloroethyl)ether	7.522	93	1168885	50.462	ng		99
12) 1,3-Dichlorobenzene	7.969	146	1246107	51.714	ng		97
13) 1,4-Dichlorobenzene	8.128	146	1275704	52.191	ng		99
14) 1,2-Dichlorobenzene	8.440	146	1229593	52.247	ng		98
15) Benzyl Alcohol	8.340	79	1076772	53.713	ng		98
16) 2,2'-oxybis(1-Chloropr...	8.622	45	1390651	52.938	ng		98
17) 2-Methylphenol	8.522	107	1068331	52.021	ng		98
18) Hexachloroethane	9.169	117	463513	53.163	ng		93
19) n-Nitroso-di-n-propyla...	8.910	70	917247	49.897	ng		97
20) 3+4-Methylphenols	8.858	107	1454320	52.142	ng		100
22) Acetophenone	8.940	105	1820744	48.644	ng	#	99
24) Nitrobenzene	9.334	77	1345300	49.458	ng		98
25) Isophorone	9.846	82	2553093	47.751	ng		99
26) 2-Nitrophenol	10.034	139	528732	45.289	ng		95
27) 2,4-Dimethylphenol	10.069	122	1259426	52.652	ng		100
28) bis(2-Chloroethoxy)met...	10.334	93	1598585	48.811	ng		99
29) 2,4-Dichlorophenol	10.557	162	1156555	51.665	ng		98
30) 1,2,4-Trichlorobenzene	10.769	180	1153341	47.567	ng		98
31) Naphthalene	10.975	128	3686346	47.539	ng		99
32) Benzoic acid	10.199	122	694339	44.735	ng		96
33) 4-Chloroaniline	11.099	127	1093818	31.271	ng		98
34) Hexachlorobutadiene	11.210	225	636180	44.317	ng		99
35) Caprolactam	11.910	113	411165m	50.265	ng		
36) 4-Chloro-3-methylphenol	12.187	107	1284659	51.627	ng		98
37) 2-Methylnaphthalene	12.569	142	2561642	45.473	ng		99
38) 1-Methylnaphthalene	12.793	142	2410662	45.645	ng		100
40) 1,2,4,5-Tetrachloroben...	12.916	216	1245495	45.253	ng		99
41) Hexachlorocyclopentadiene	12.875	237	1617975	117.048	ng		99
43) 2,4,6-Trichlorophenol	13.163	196	888023	50.285	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP072823\
Data File : BP016413.D
Acq On : 28 Jul 2023 09:12
Operator : MA/JU
Sample : PB154218BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 28 09:42:23 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP072723.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 28 01:48:25 2023
Response via : Initial Calibration

Instrument :
BNA_P
ClientSampleId :
PB154218BS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	13.228	196	994065	46.397	ng		96
46) 1,1'-Biphenyl	13.575	154	3285804	47.594	ng		99
47) 2-Chloronaphthalene	13.622	162	2558166	49.115	ng		99
48) 2-Nitroaniline	13.840	65	772319	52.604	ng		97
49) Acenaphthylene	14.463	152	4156482	48.096	ng		99
50) Dimethylphthalate	14.198	163	3340748	47.335	ng		100
51) 2,6-Dinitrotoluene	14.328	165	713909	49.376	ng		90
52) Acenaphthene	14.798	154	2469468	48.053	ng		100
53) 3-Nitroaniline	14.663	138	657374	40.216	ng		93
54) 2,4-Dinitrophenol	14.863	184	640485	93.221	ng		97
55) Dibenzofuran	15.134	168	3942045	46.771	ng		99
56) 4-Nitrophenol	14.945	139	1486507	116.172	ng		97
57) 2,4-Dinitrotoluene	15.110	165	986415	52.348	ng		95
58) Fluorene	15.787	166	3149698	47.567	ng		100
59) 2,3,4,6-Tetrachlorophenol	15.345	232	858146	48.690	ng		93
60) Diethylphthalate	15.551	149	3364953	47.976	ng		99
61) 4-Chlorophenyl-phenyle...	15.775	204	1520032	45.491	ng		97
62) 4-Nitroaniline	15.834	138	795278	49.024	ng		98
63) Azobenzene	16.075	77	3281647	49.552	ng		97
65) 4,6-Dinitro-2-methylph...	15.857	198	440199	48.485	ng		91
66) n-Nitrosodiphenylamine	15.998	169	2842176	49.813	ng		99
67) 4-Bromophenyl-phenylether	16.681	248	952234	46.450	ng		97
68) Hexachlorobenzene	16.757	284	1078520	47.176	ng		95
69) Atrazine	16.951	200	1032546	60.850	ng		99
70) Pentachlorophenol	17.122	266	1435150	90.714	ng		93
71) Phenanthrene	17.539	178	5116543	49.770	ng		99
72) Anthracene	17.634	178	5172465	50.037	ng		100
73) Carbazole	17.910	167	5010557	51.700	ng		99
74) Di-n-butylphthalate	18.428	149	5800118	51.729	ng		99
75) Fluoranthene	19.498	202	5895759	48.930	ng		98
77) Benzidine	19.692	184	3634689	116.422	ng		100
78) Pyrene	19.851	202	6106780	50.591	ng		100
80) Butylbenzylphthalate	20.716	149	2565593	54.102	ng		98
81) Benzo(a)anthracene	21.569	228	5963984	49.363	ng		100
82) 3,3'-Dichlorobenzidine	21.504	252	1675491	42.246	ng	#	99
83) Chrysene	21.627	228	5568410	48.265	ng		100
84) Bis(2-ethylhexyl)phtha...	21.463	149	3812490	53.548	ng		100
85) Di-n-octyl phthalate	22.457	149	6545317	54.662	ng		99
87) Indeno(1,2,3-cd)pyrene	26.968	276	6391410	49.325	ng		96
88) Benzo(b)fluoranthene	23.380	252	6021553	54.048	ng		98
89) Benzo(k)fluoranthene	23.433	252	6103087	53.863	ng		98
90) Benzo(a)pyrene	24.074	252	5259975	48.742	ng		99
91) Dibenzo(a,h)anthracene	26.998	278	5385970	49.842	ng		98
92) Benzo(g,h,i)perylene	27.827	276	5027325	48.277	ng		97

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

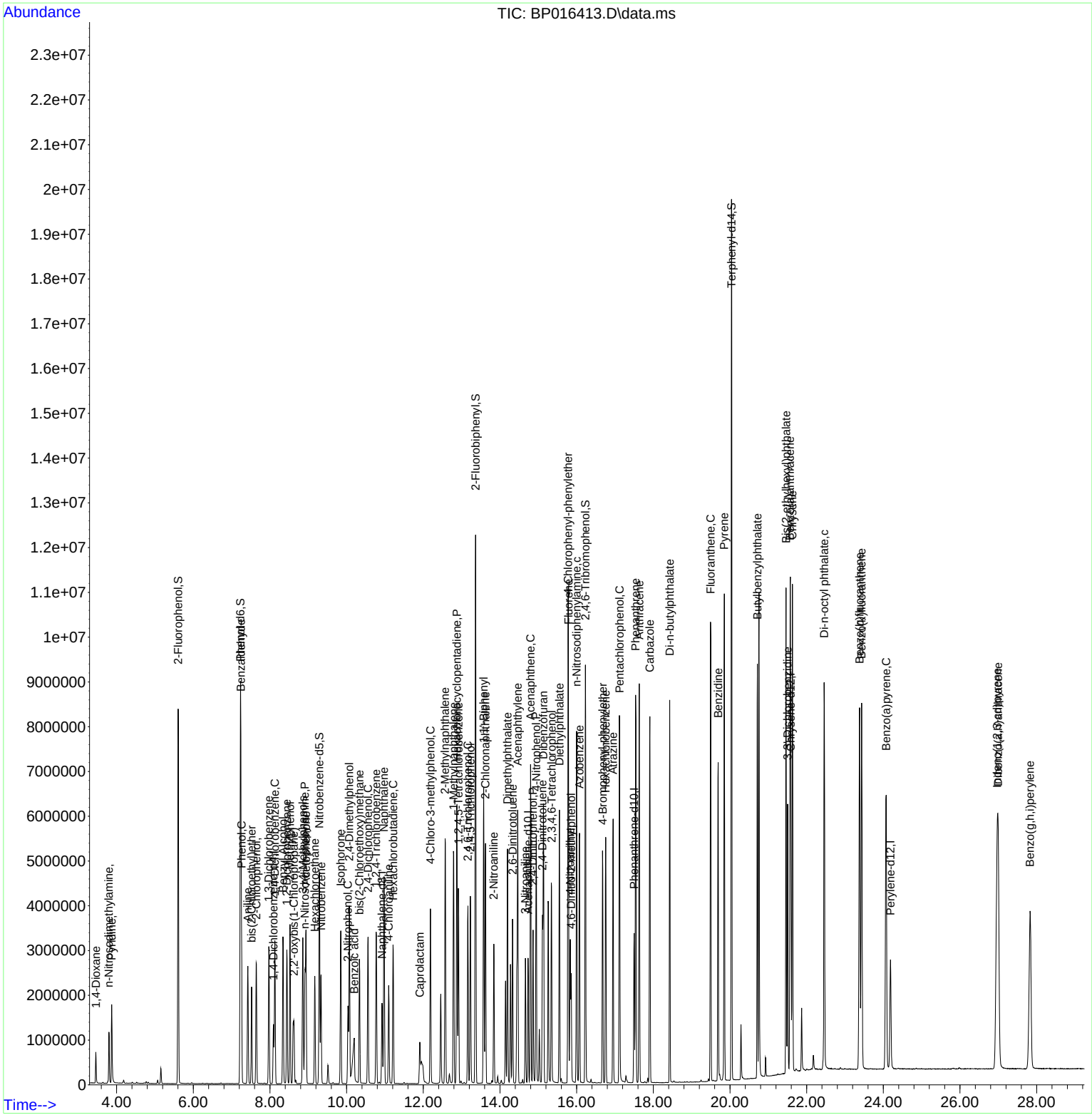
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP072823\
Data File : BP016413.D
Acq On : 28 Jul 2023 09:12
Operator : MA/JU
Sample : PB154218BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

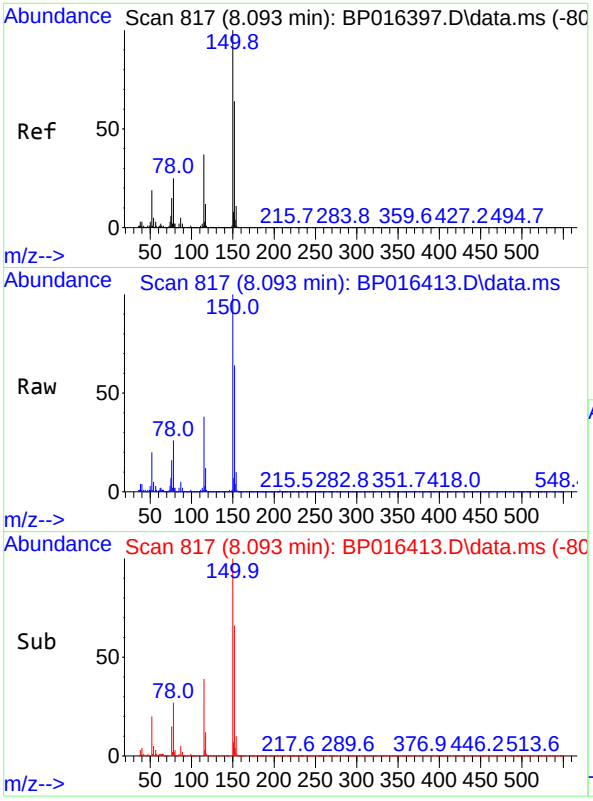
Quant Time: Jul 28 09:42:23 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP072723.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 28 01:48:25 2023
Response via : Initial Calibration

Instrument :
BNA_P
ClientSampleId :
PB154218BS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

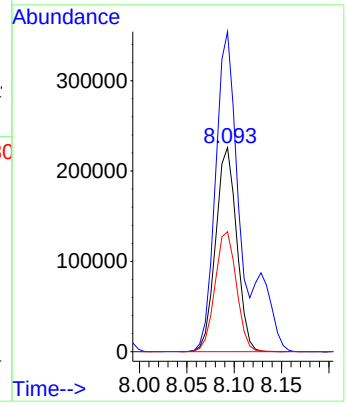




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.093 min Scan# 8
Delta R.T. -0.000 min
Lab File: BP016413.D
Acq: 28 Jul 2023 09:12

Tgt Ion:152 Resp: 34924

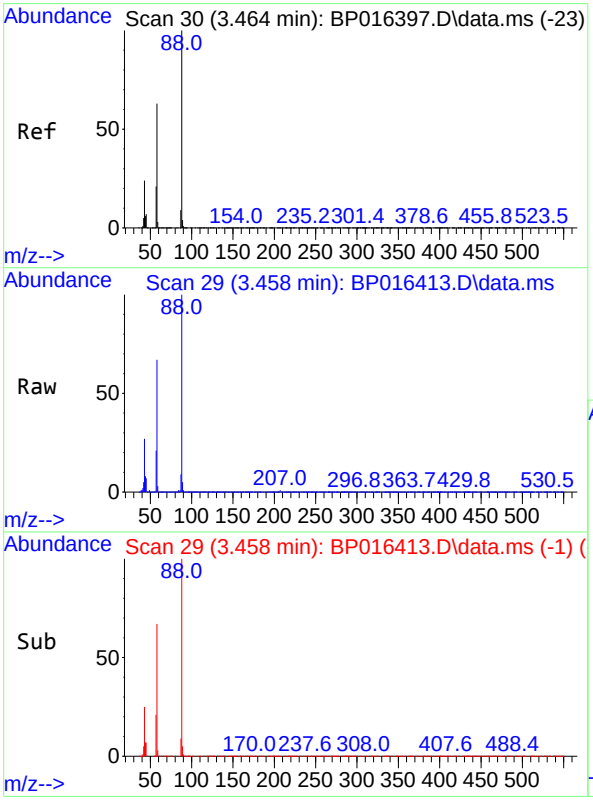
Ion	Ratio	Lower	Upper
152	100		
150	156.8	124.9	187.3
115	58.8	46.8	70.2



Instrument :
BNA_P
ClientSampleId :
PB154218BS

Manual Integrations
APPROVED

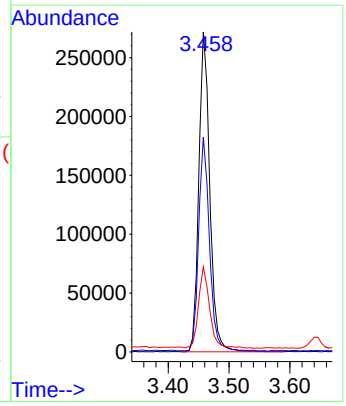
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

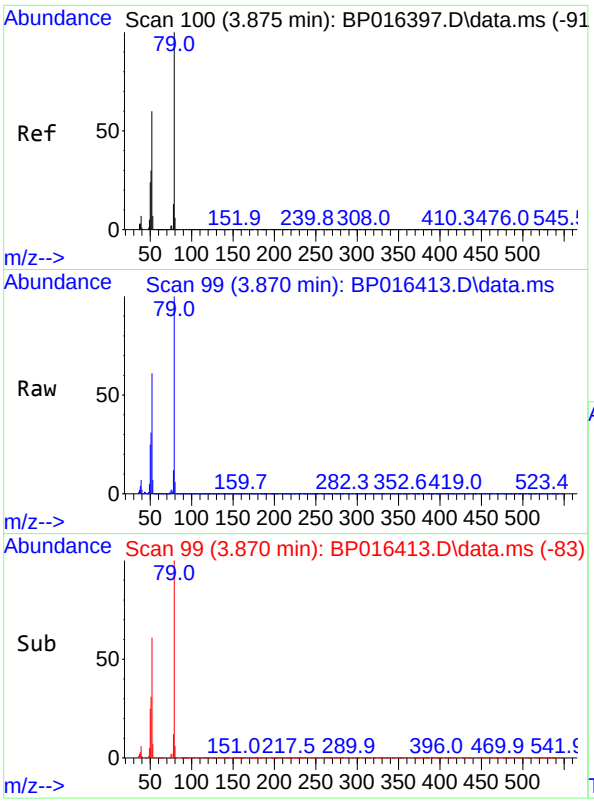


#2
1,4-Dioxane
Concen: 40.616 ng
RT: 3.458 min Scan# 29
Delta R.T. -0.006 min
Lab File: BP016413.D
Acq: 28 Jul 2023 09:12

Tgt Ion: 88 Resp: 339114

Ion	Ratio	Lower	Upper
88	100		
58	66.3	51.7	77.5
43	25.9	19.2	28.8

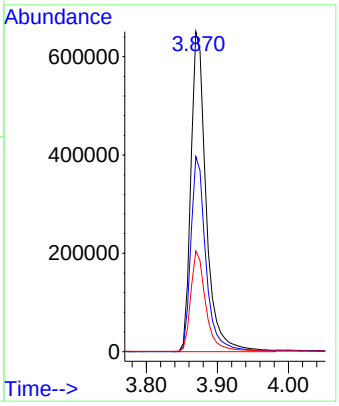




#3
Pyridine
Concen: 38.989 ng
RT: 3.870 min Scan# 9
Delta R.T. -0.006 min
Lab File: BP016413.D
Acq: 28 Jul 2023 09:12

Tgt Ion: 79 Resp: 97307

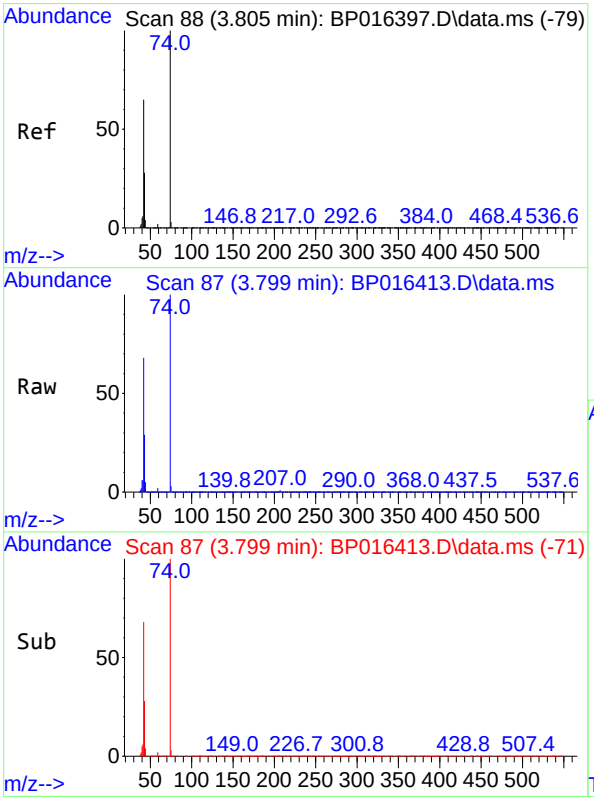
Ion	Ratio	Lower	Upper
79	100		
52	61.0	47.9	71.9
51	31.5	24.4	36.6



Instrument :
BNA_P
ClientSampleId :
PB154218BS

Manual Integrations APPROVED

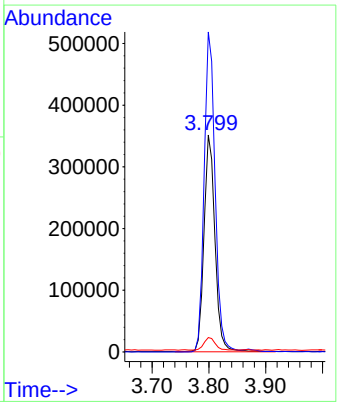
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

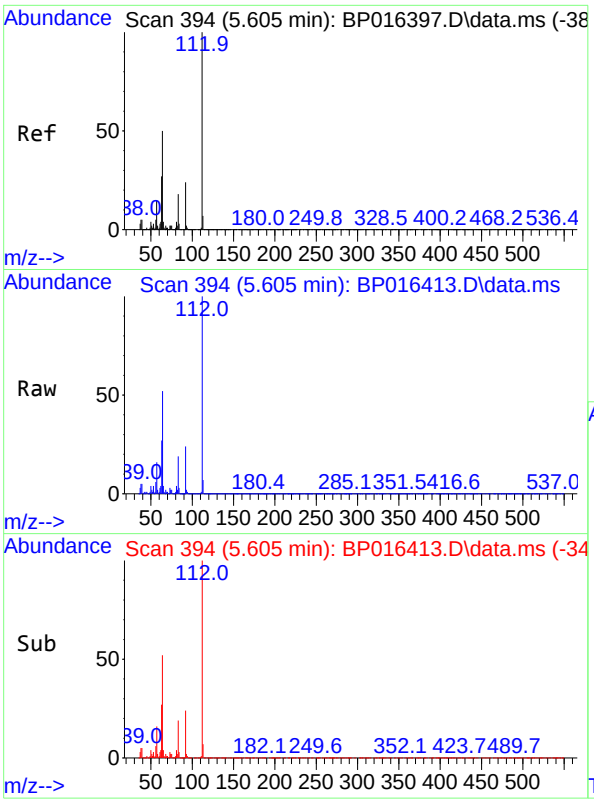


#4
n-Nitrosodimethylamine
Concen: 49.842 ng
RT: 3.799 min Scan# 87
Delta R.T. -0.006 min
Lab File: BP016413.D
Acq: 28 Jul 2023 09:12

Tgt Ion: 42 Resp: 469006

Ion	Ratio	Lower	Upper
42	100		
74	147.4	123.8	185.8
44	6.7	5.5	8.3

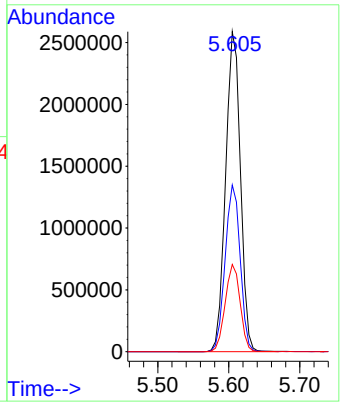




#5
2-Fluorophenol
Concen: 174.742 ng
RT: 5.605 min Scan# 3
Delta R.T. -0.000 min
Lab File: BP016413.D
Acq: 28 Jul 2023 09:12

Tgt Ion:112 Resp: 374082

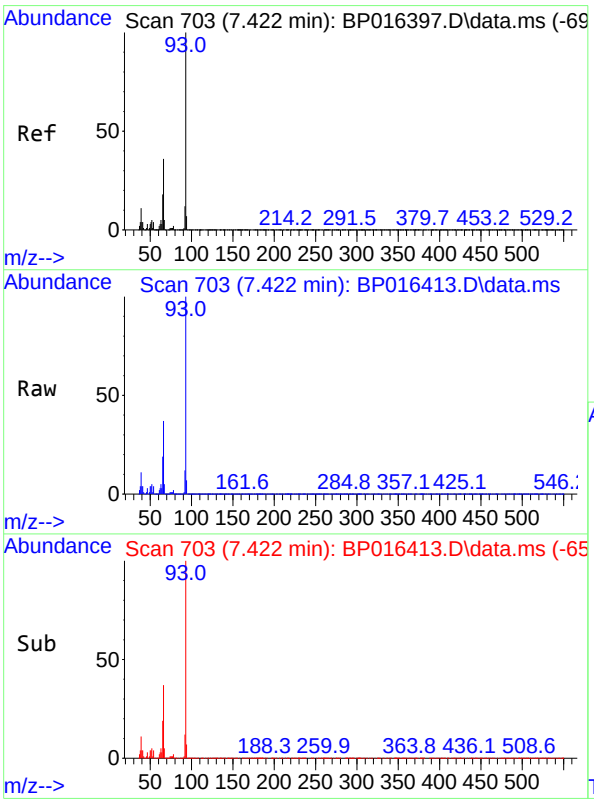
Ion	Ratio	Lower	Upper
112	100		
64	52.1	40.0	60.0
63	27.3	21.2	31.8



Instrument :
BNA_P
ClientSampleId :
PB154218BS

Manual Integrations APPROVED

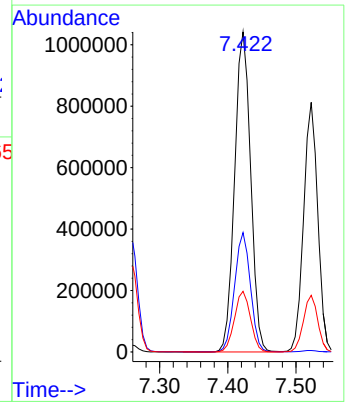
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

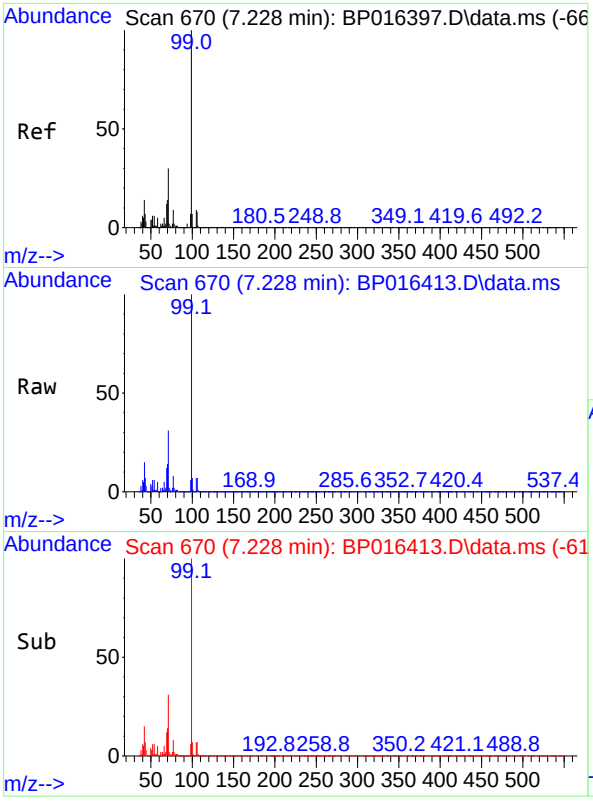


#6
Aniline
Concen: 47.045 ng
RT: 7.422 min Scan# 703
Delta R.T. -0.000 min
Lab File: BP016413.D
Acq: 28 Jul 2023 09:12

Tgt Ion: 93 Resp: 1705082

Ion	Ratio	Lower	Upper
93	100		
66	37.3	28.9	43.3
65	18.9	14.7	22.1

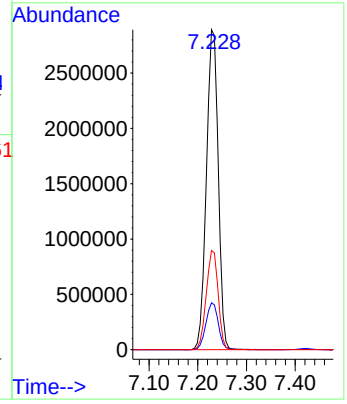




#7
Phenol-d6
Concen: 166.186 ng
RT: 7.228 min Scan# 6
Delta R.T. -0.000 min
Lab File: BP016413.D
Acq: 28 Jul 2023 09:12

Tgt Ion: 99 Resp: 487640

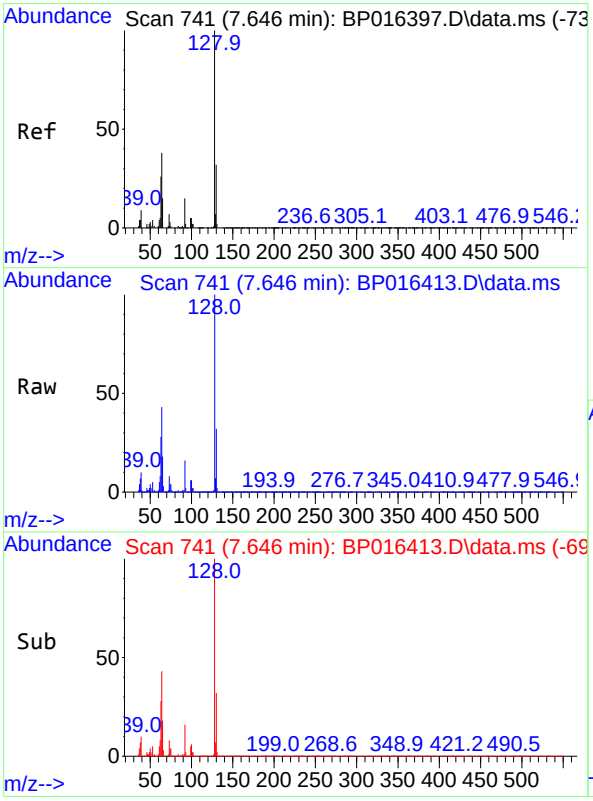
Ion	Ratio	Lower	Upper
99	100		
42	14.7	11.6	17.4
71	31.0	24.3	36.5



Instrument :
BNA_P
ClientSampleId :
PB154218BS

Manual Integrations
APPROVED

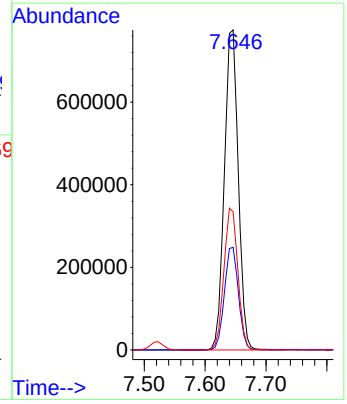
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

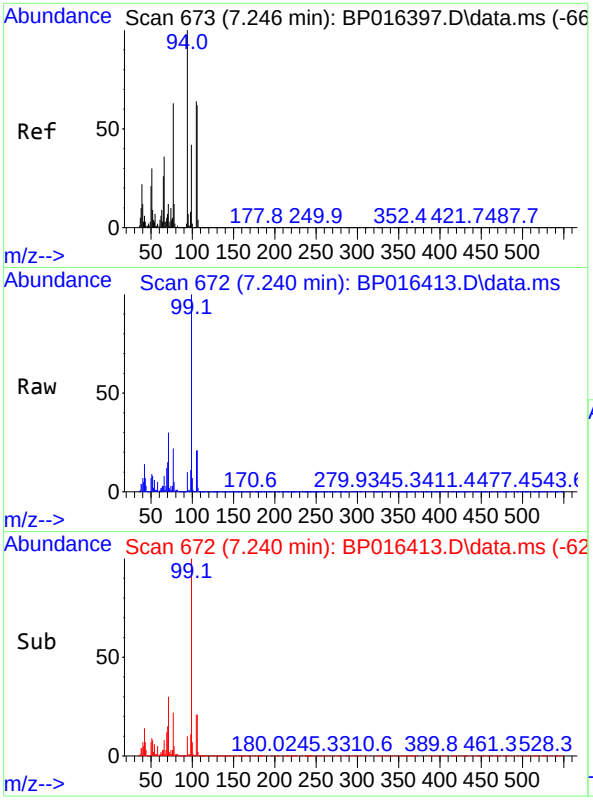


#8
2-Chlorophenol
Concen: 54.859 ng
RT: 7.646 min Scan# 741
Delta R.T. -0.000 min
Lab File: BP016413.D
Acq: 28 Jul 2023 09:12

Tgt Ion:128 Resp: 1231360

Ion	Ratio	Lower	Upper
128	100		
130	32.1	11.6	51.6
64	43.1	20.6	60.6

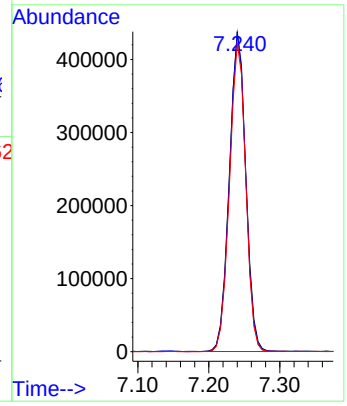




#9
Benzaldehyde
Concen: 59.679 ng
RT: 7.240 min Scan# 6
Delta R.T. -0.006 min
Lab File: BP016413.D
Acq: 28 Jul 2023 09:12

Tgt Ion: 77 Resp: 70542

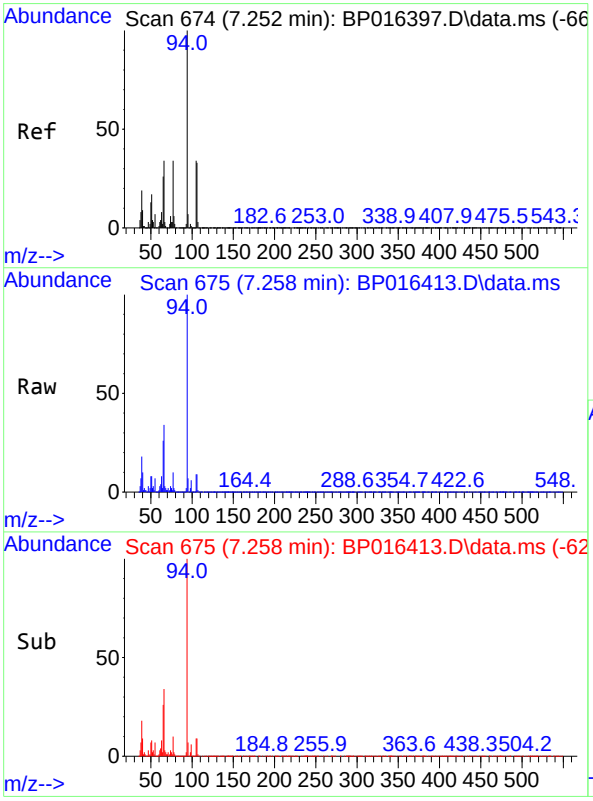
Ion	Ratio	Lower	Upper
77	100		
105	99.6	81.9	121.9
106	96.3	78.8	118.8



Instrument :
BNA_P
ClientSampleId :
PB154218BS

Manual Integrations
APPROVED

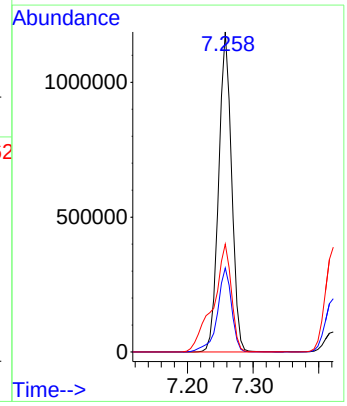
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

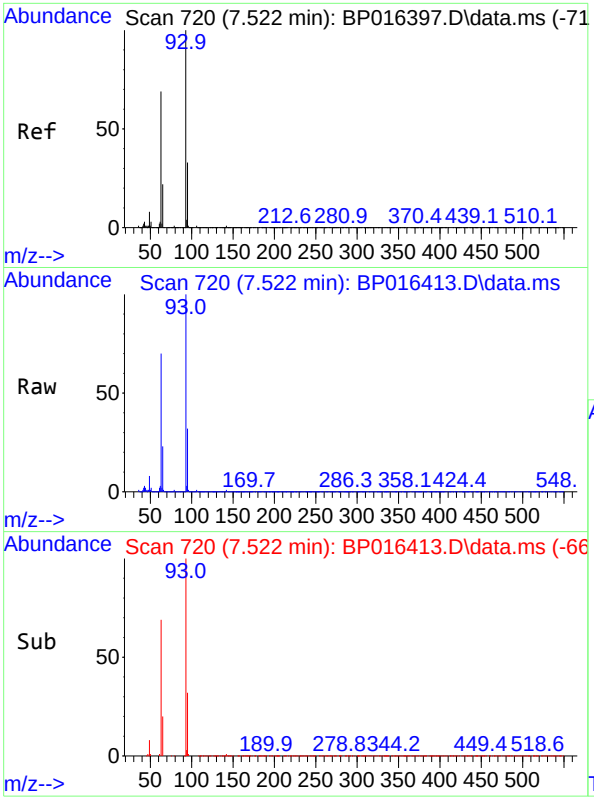


#10
Phenol
Concen: 56.863 ng
RT: 7.258 min Scan# 675
Delta R.T. 0.006 min
Lab File: BP016413.D
Acq: 28 Jul 2023 09:12

Tgt Ion: 94 Resp: 1620333

Ion	Ratio	Lower	Upper
94	100		
65	26.2	5.9	45.9
66	33.7	14.3	54.3

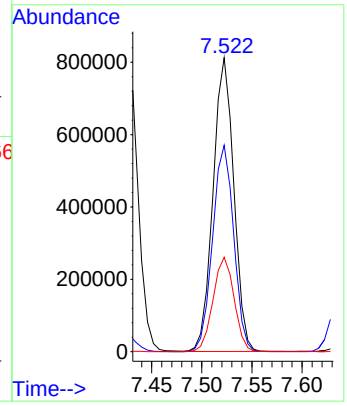




#11
bis(2-Chloroethyl)ether
Concen: 50.462 ng
RT: 7.522 min Scan# 7
Delta R.T. -0.000 min
Lab File: BP016413.D
Acq: 28 Jul 2023 09:12

Tgt Ion: 93 Resp: 116888

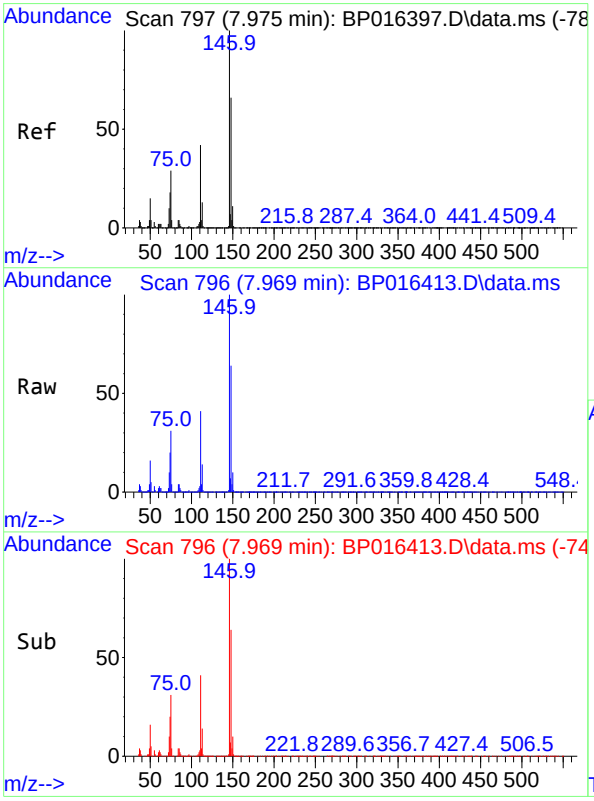
Ion	Ratio	Lower	Upper
93	100		
63	70.2	49.4	89.4
95	32.1	12.9	52.9



Instrument :
BNA_P
ClientSampleId :
PB154218BS

Manual Integrations APPROVED

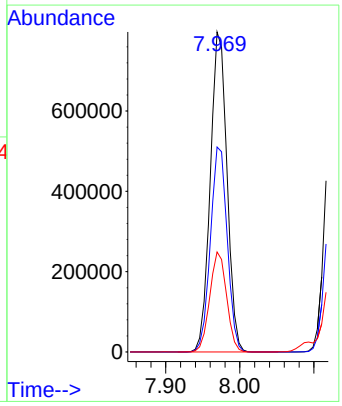
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

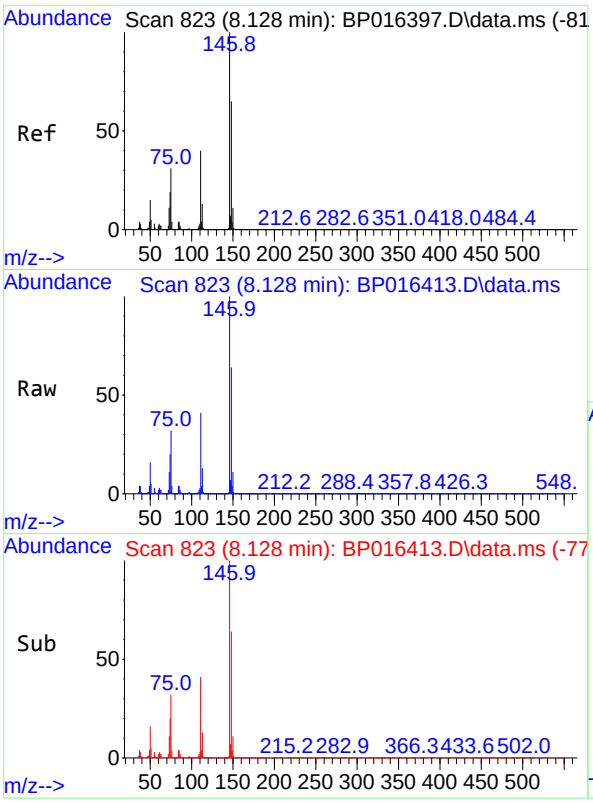


#12
1,3-Dichlorobenzene
Concen: 51.714 ng
RT: 7.969 min Scan# 796
Delta R.T. -0.006 min
Lab File: BP016413.D
Acq: 28 Jul 2023 09:12

Tgt Ion:146 Resp: 1246107

Ion	Ratio	Lower	Upper
146	100		
148	64.0	53.0	79.4
75	31.2	23.4	35.2

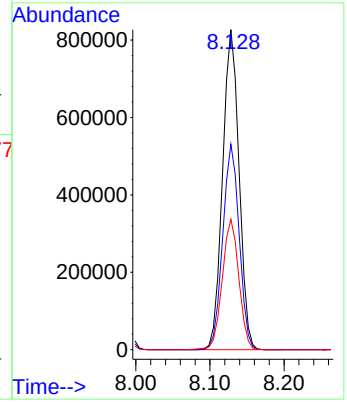




#13
1,4-Dichlorobenzene
Concen: 52.191 ng
RT: 8.128 min Scan# 8
Delta R.T. -0.000 min
Lab File: BP016413.D
Acq: 28 Jul 2023 09:12

Tgt Ion:146 Resp: 127570

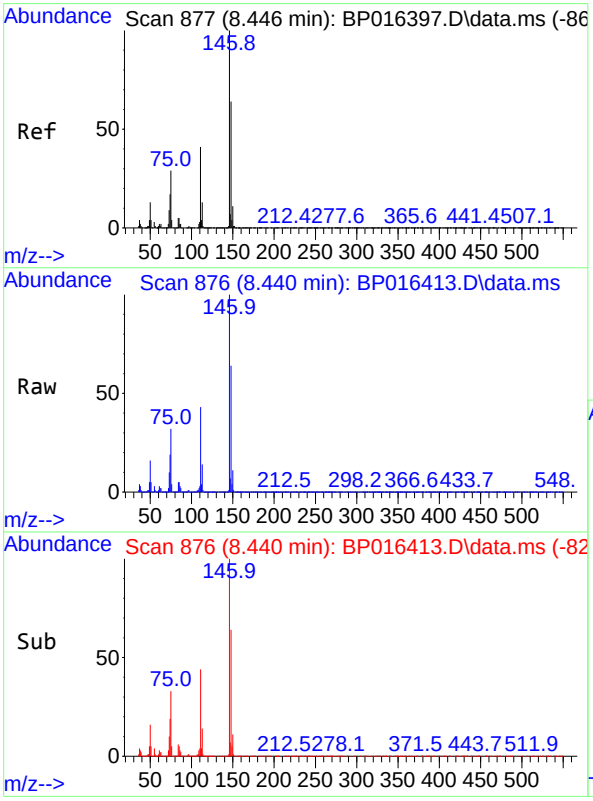
Ion	Ratio	Lower	Upper
146	100		
148	64.2	51.7	77.5
111	40.8	32.0	48.0



Instrument :
BNA_P
ClientSampleId :
PB154218BS

Manual Integrations
APPROVED

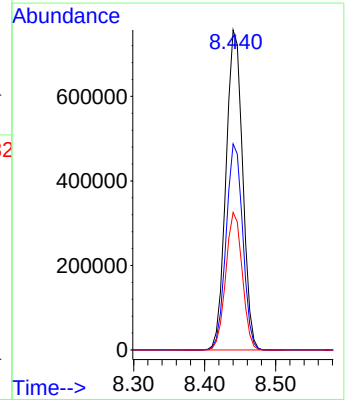
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

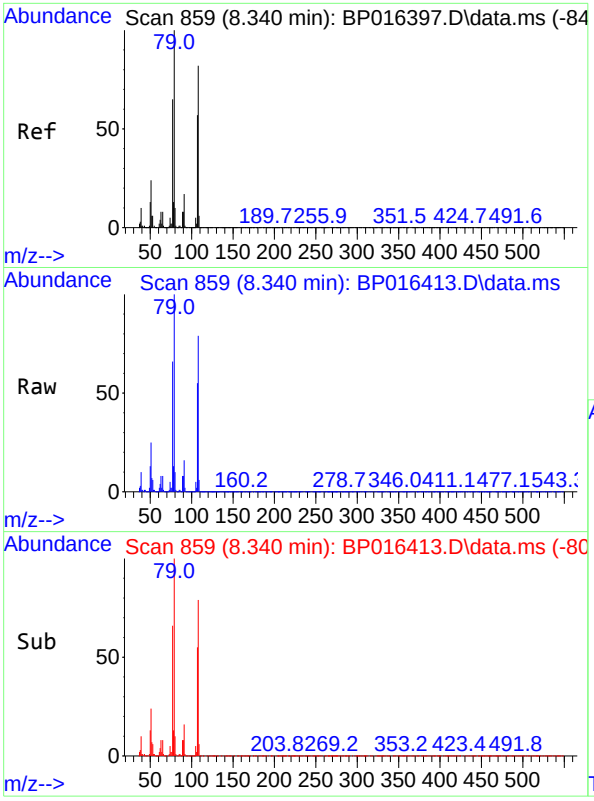


#14
1,2-Dichlorobenzene
Concen: 52.247 ng
RT: 8.440 min Scan# 876
Delta R.T. -0.006 min
Lab File: BP016413.D
Acq: 28 Jul 2023 09:12

Tgt Ion:146 Resp: 1229593

Ion	Ratio	Lower	Upper
146	100		
148	64.4	51.0	76.6
111	42.9	32.6	49.0

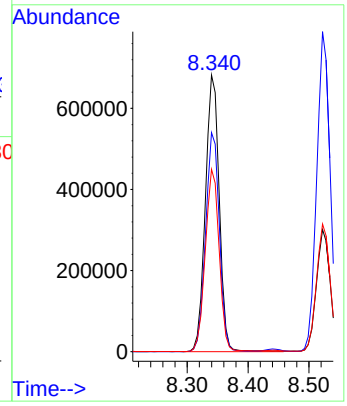




#15
Benzyl Alcohol
Concen: 53.713 ng
RT: 8.340 min Scan# 8
Delta R.T. -0.000 min
Lab File: BP016413.D
Acq: 28 Jul 2023 09:12

Tgt Ion: 79 Resp: 107677

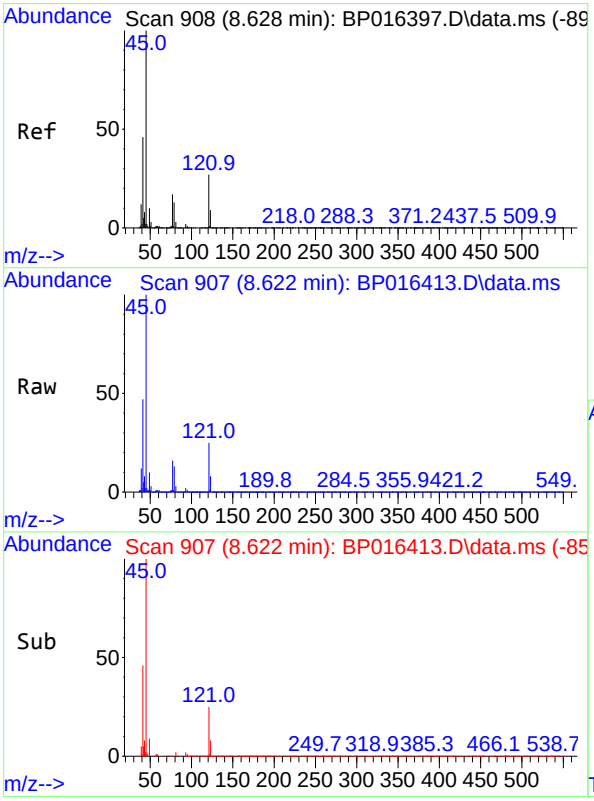
Ion	Ratio	Lower	Upper
79	100		
108	79.2	65.4	98.2
77	65.9	51.8	77.8



Instrument :
BNA_P
ClientSampleId :
PB154218BS

Manual Integrations
APPROVED

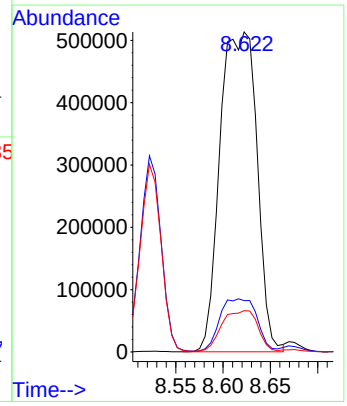
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

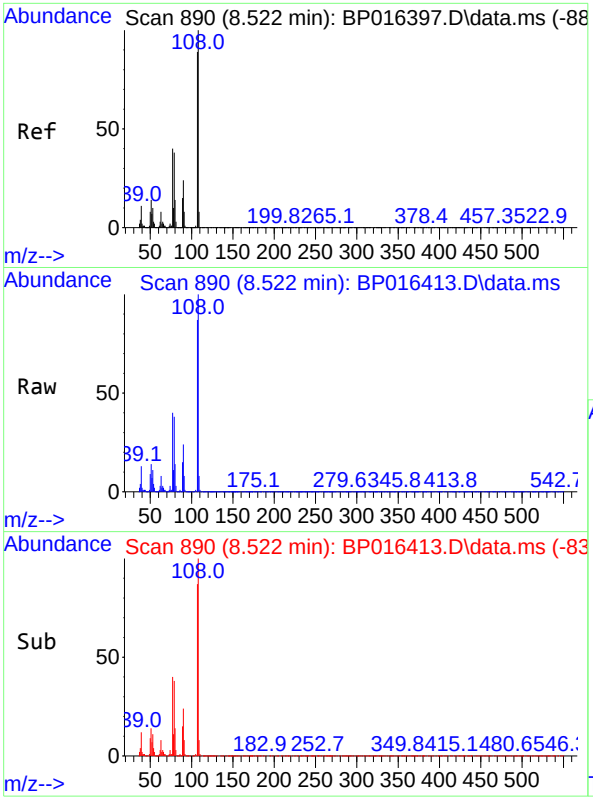


#16
2,2'-oxybis(1-Chloropropane)
Concen: 52.938 ng
RT: 8.622 min Scan# 907
Delta R.T. -0.006 min
Lab File: BP016413.D
Acq: 28 Jul 2023 09:12

Tgt Ion: 45 Resp: 1390651

Ion	Ratio	Lower	Upper
45	100		
77	16.1	0.0	37.3
79	12.9	0.0	33.3

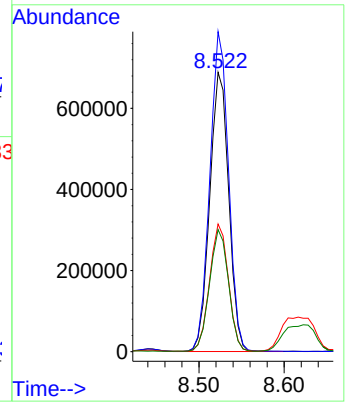




#17
2-Methylphenol
Concen: 52.021 ng
RT: 8.522 min Scan# 8
Delta R.T. -0.000 min
Lab File: BP016413.D
Acq: 28 Jul 2023 09:12

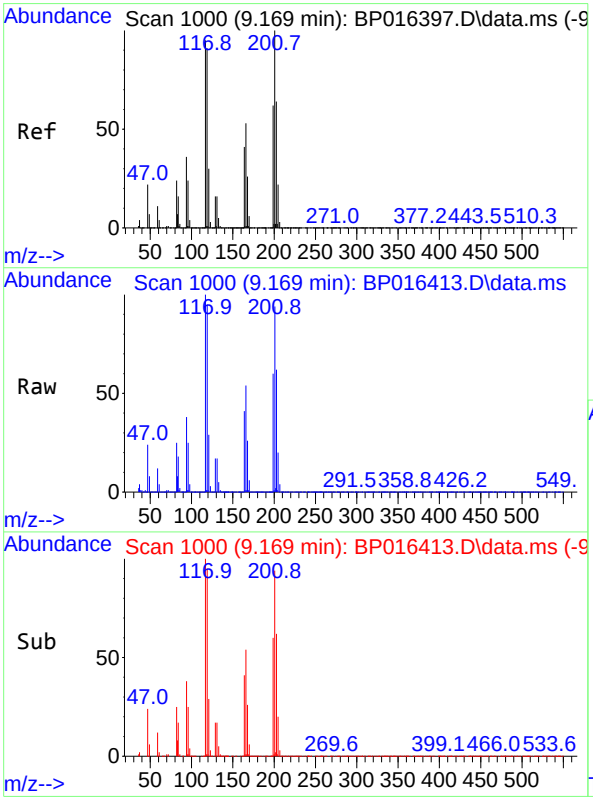
Tgt Ion:107 Resp: 106833

Ion	Ratio	Lower	Upper
107	100		
108	114.5	89.6	134.4
77	45.7	35.6	53.4
79	43.7	34.2	51.2



Instrument :
BNA_P
ClientSampleId :
PB154218BS

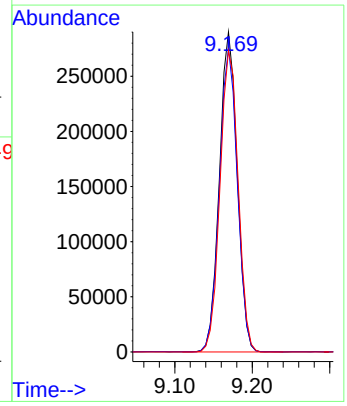
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

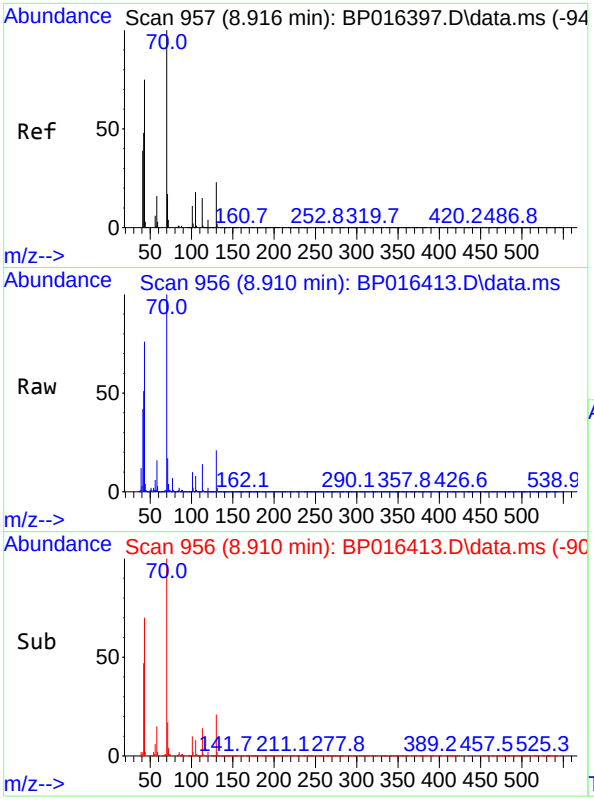


#18
Hexachloroethane
Concen: 53.163 ng
RT: 9.169 min Scan# 1000
Delta R.T. -0.000 min
Lab File: BP016413.D
Acq: 28 Jul 2023 09:12

Tgt Ion:117 Resp: 463513

Ion	Ratio	Lower	Upper
117	100		
119	94.9	76.9	115.3
201	94.1	86.2	129.4

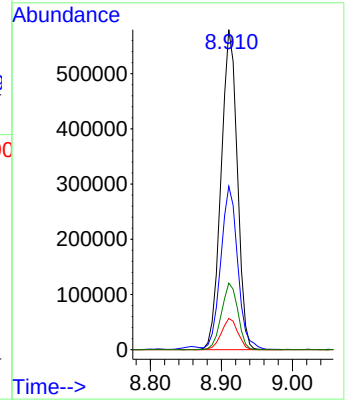




#19
n-Nitroso-di-n-propylamine
Concen: 49.897 ng
RT: 8.910 min Scan# 9
Delta R.T. -0.006 min
Lab File: BP016413.D
Acq: 28 Jul 2023 09:12

Tgt Ion: 70 Resp: 91724

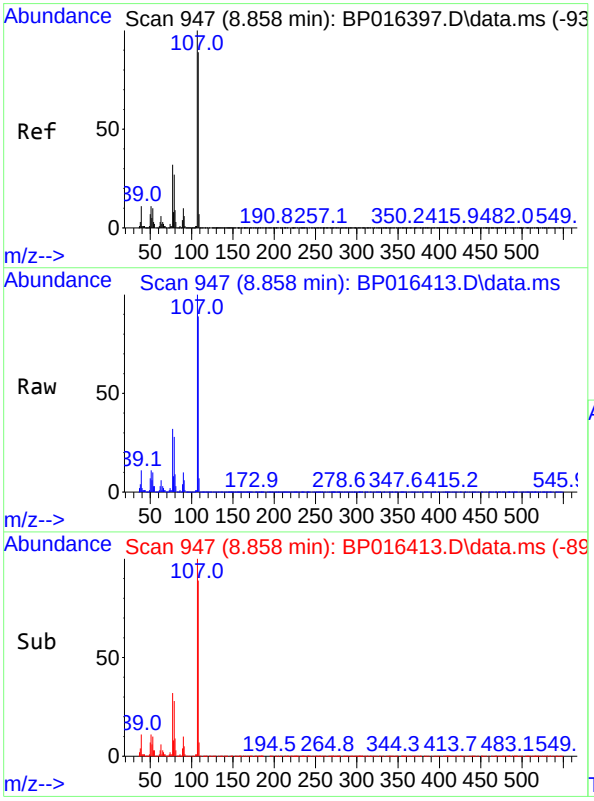
Ion	Ratio	Lower	Upper
70	100		
42	51.1	39.3	58.9
101	9.7	8.6	12.8
130	20.8	18.6	28.0



Instrument :
BNA_P
ClientSampleId :
PB154218BS

Manual Integrations
APPROVED

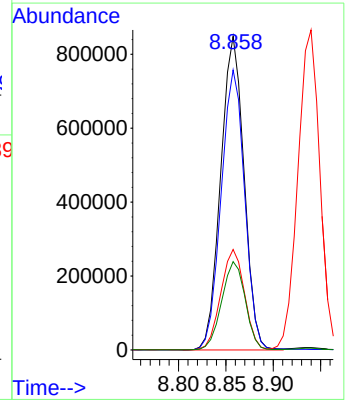
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

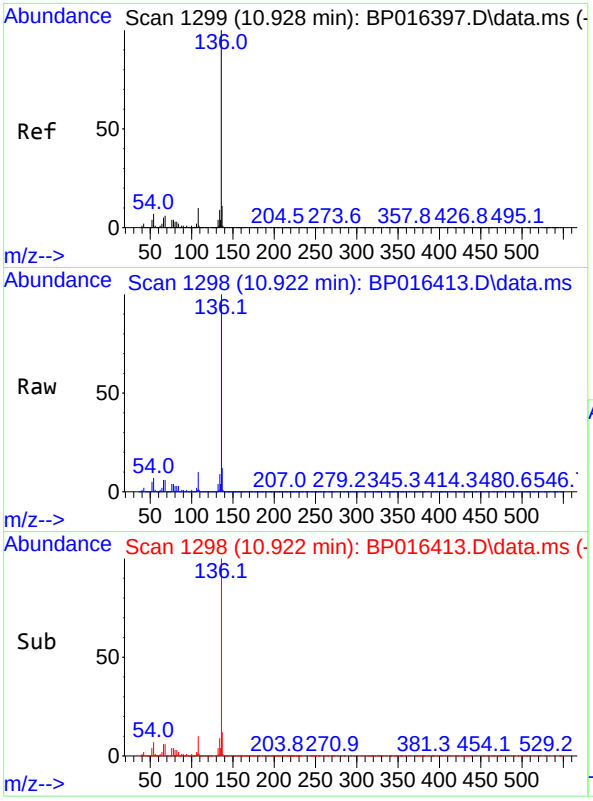


#20
3+4-Methylphenols
Concen: 52.142 ng
RT: 8.858 min Scan# 947
Delta R.T. -0.000 min
Lab File: BP016413.D
Acq: 28 Jul 2023 09:12

Tgt Ion:107 Resp: 1454320

Ion	Ratio	Lower	Upper
107	100		
108	89.3	69.1	109.1
77	32.1	12.0	52.0
79	28.2	7.5	47.5

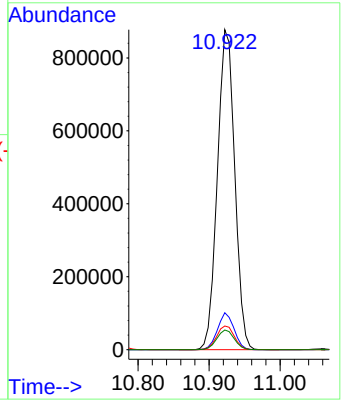




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.922 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP016413.D
Acq: 28 Jul 2023 09:12

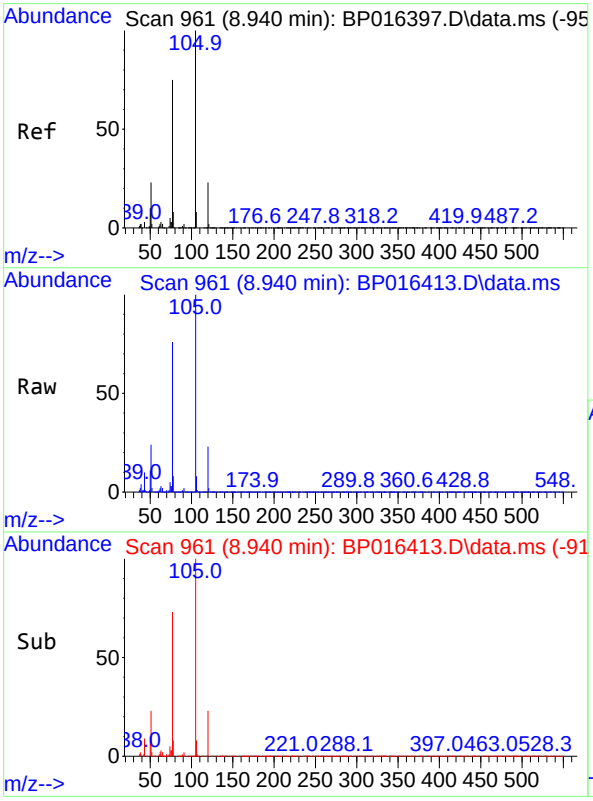
Tgt Ion:136 Resp: 148247

Ion	Ratio	Lower	Upper
136	100		
137	11.6	8.6	13.0
54	7.4	5.6	8.4
68	6.2	4.6	6.8



Instrument :
BNA_P
ClientSampleId :
PB154218BS

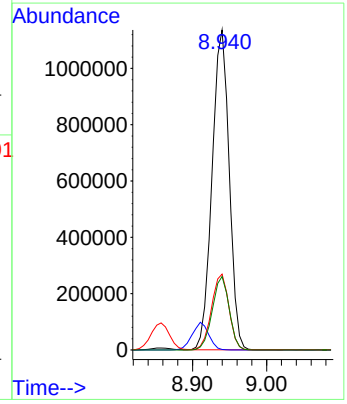
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

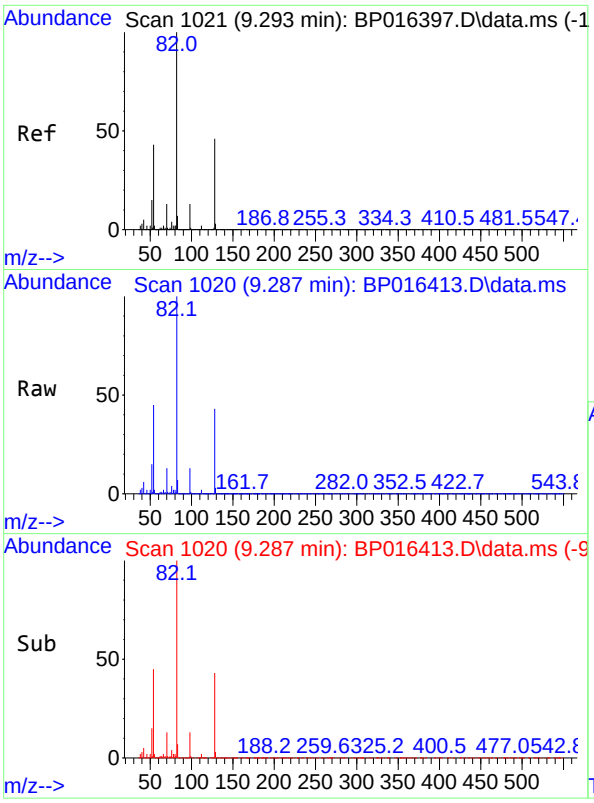


#22
Acetophenone
Concen: 48.644 ng
RT: 8.940 min Scan# 961
Delta R.T. -0.000 min
Lab File: BP016413.D
Acq: 28 Jul 2023 09:12

Tgt Ion:105 Resp: 1820744

Ion	Ratio	Lower	Upper
105	100		
71	0.1	0.2	0.2#
51	23.7	18.3	27.5
120	23.0	18.2	27.2

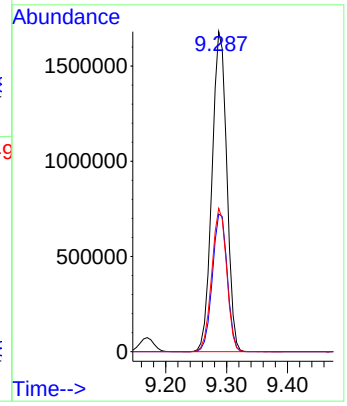




#23
Nitrobenzene-d5
Concen: 107.080 ng
RT: 9.287 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP016413.D
Acq: 28 Jul 2023 09:12

Tgt Ion: 82 Resp: 283578

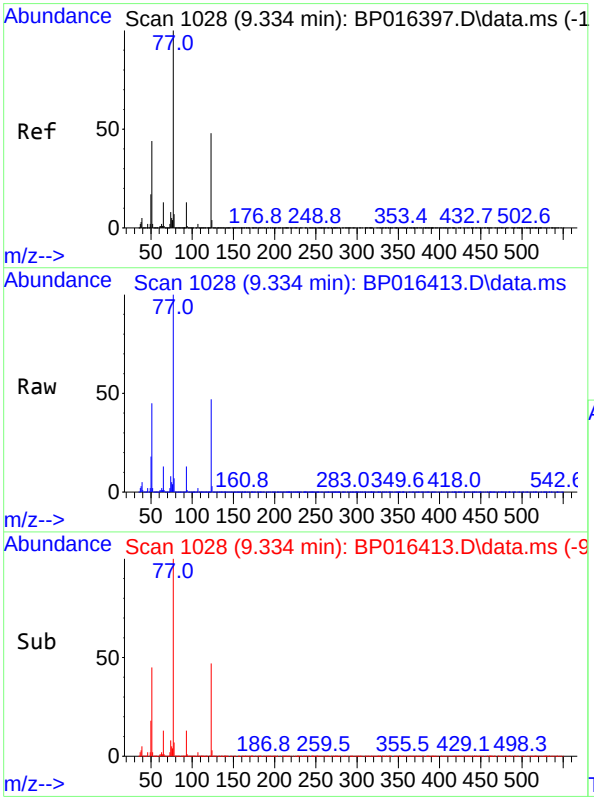
Ion	Ratio	Lower	Upper
82	100		
128	43.0	36.6	55.0
54	44.8	34.5	51.7



Instrument :
BNA_P
ClientSampleId :
PB154218BS

Manual Integrations
APPROVED

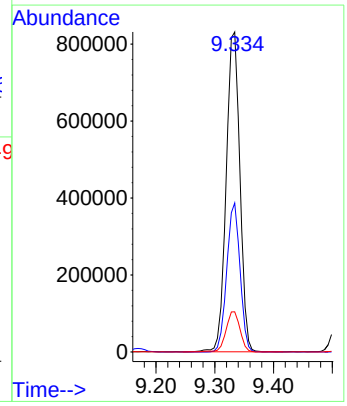
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

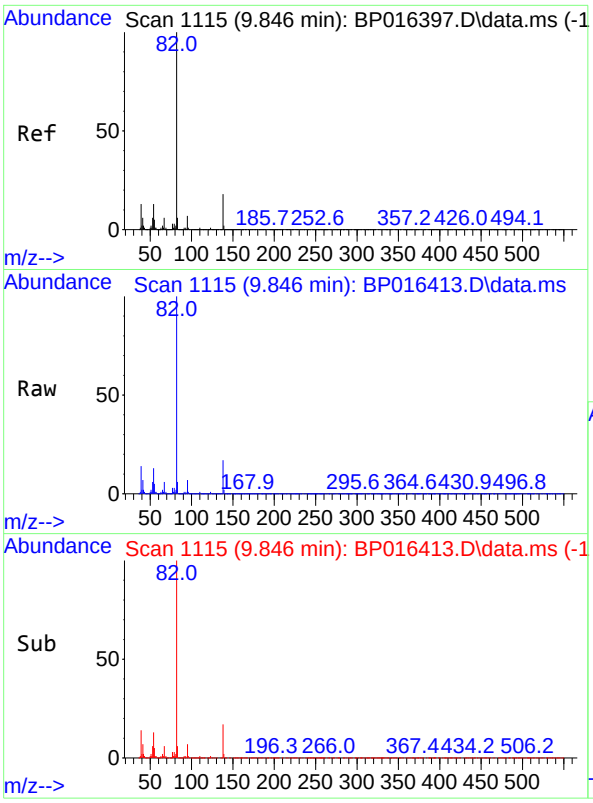


#24
Nitrobenzene
Concen: 49.458 ng
RT: 9.334 min Scan# 1028
Delta R.T. -0.000 min
Lab File: BP016413.D
Acq: 28 Jul 2023 09:12

Tgt Ion: 77 Resp: 1345300

Ion	Ratio	Lower	Upper
77	100		
123	46.5	38.6	58.0
65	12.5	10.5	15.7

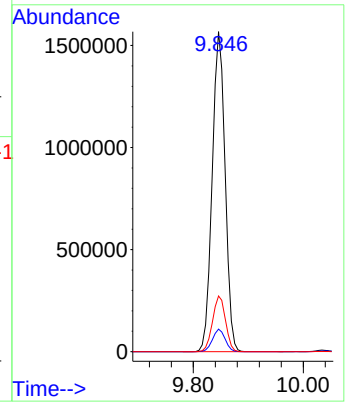




#25
Isophorone
Concen: 47.751 ng
RT: 9.846 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP016413.D
Acq: 28 Jul 2023 09:12

Tgt Ion: 82 Resp: 255309

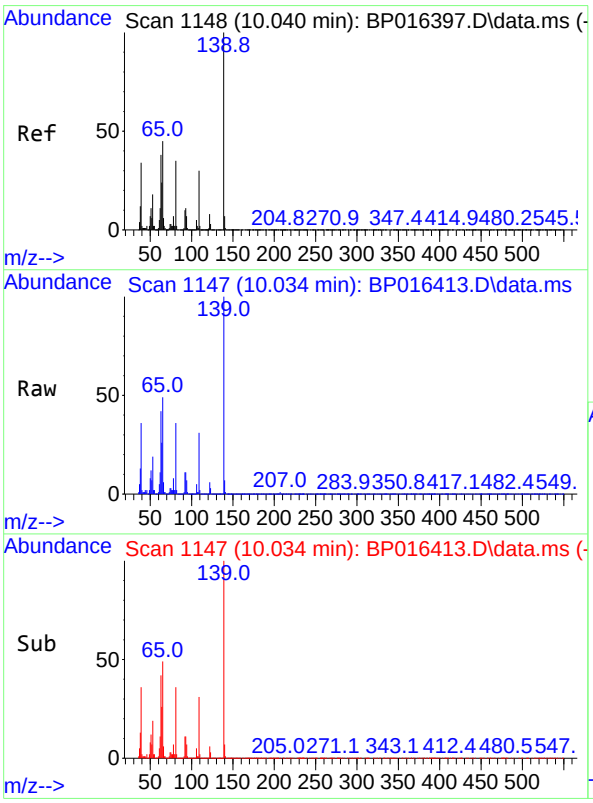
Ion	Ratio	Lower	Upper
82	100		
95	7.0	5.7	8.5
138	17.4	14.6	22.0



Instrument :
BNA_P
ClientSampleId :
PB154218BS

Manual Integrations APPROVED

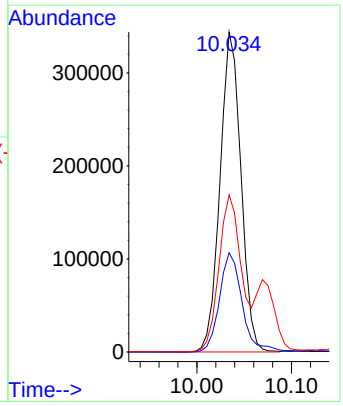
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

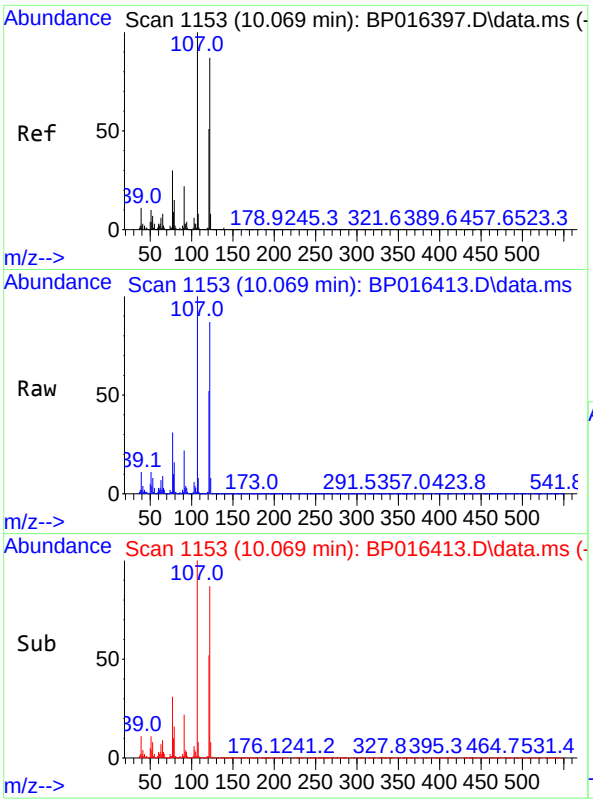


#26
2-Nitrophenol
Concen: 45.289 ng
RT: 10.034 min Scan# 1147
Delta R.T. -0.006 min
Lab File: BP016413.D
Acq: 28 Jul 2023 09:12

Tgt Ion:139 Resp: 528732

Ion	Ratio	Lower	Upper
139	100		
109	31.0	24.2	36.4
65	49.1	35.8	53.6

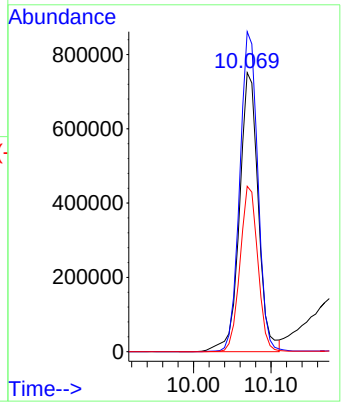




#27
2,4-Dimethylphenol
Concen: 52.652 ng
RT: 10.069 min Scan# 11
Delta R.T. -0.000 min
Lab File: BP016413.D
Acq: 28 Jul 2023 09:12

Tgt Ion:122 Resp: 125942

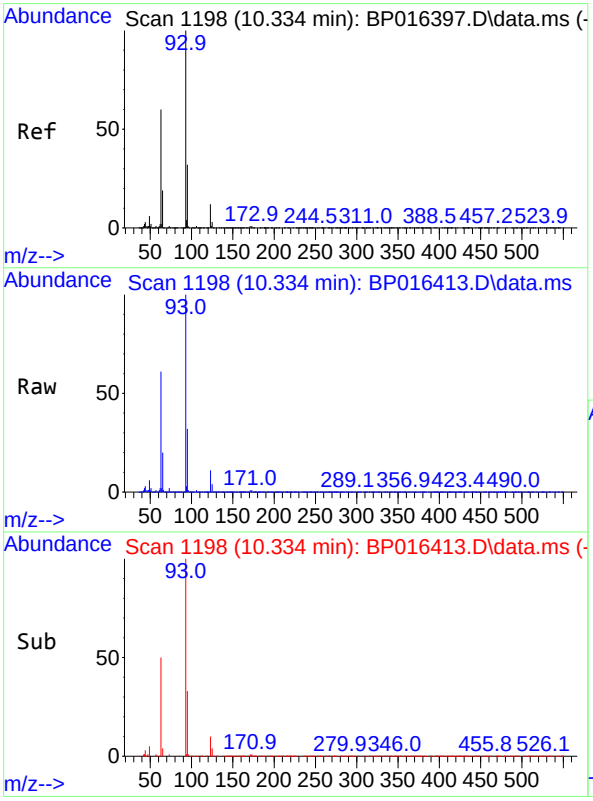
Ion	Ratio	Lower	Upper
122	100		
107	114.7	91.9	137.9
121	59.3	47.2	70.8



Instrument :
BNA_P
ClientSampleId :
PB154218BS

Manual Integrations APPROVED

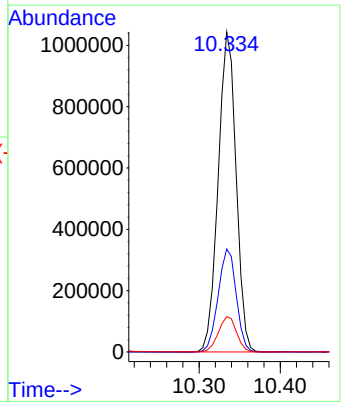
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

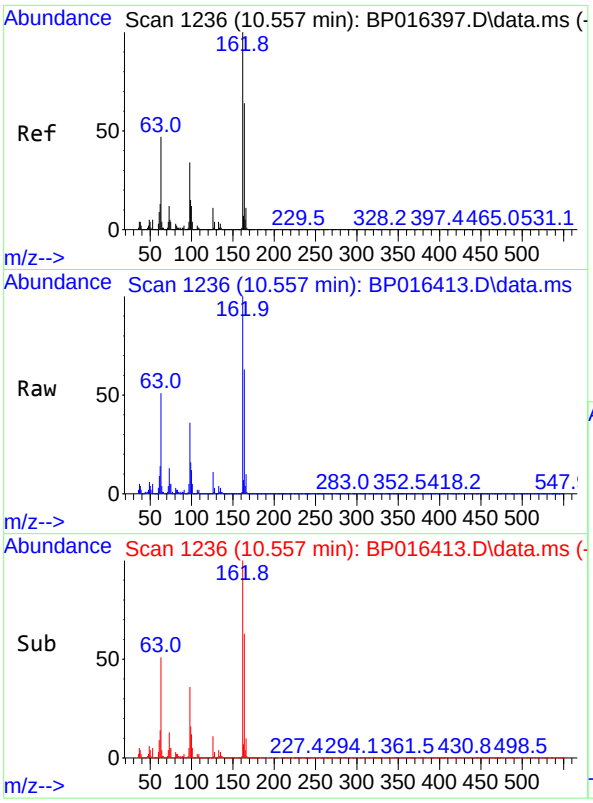


#28
bis(2-Chloroethoxy)methane
Concen: 48.811 ng
RT: 10.334 min Scan# 1198
Delta R.T. -0.000 min
Lab File: BP016413.D
Acq: 28 Jul 2023 09:12

Tgt Ion: 93 Resp: 1598585

Ion	Ratio	Lower	Upper
93	100		
95	32.1	25.8	38.8
123	11.1	9.4	14.0

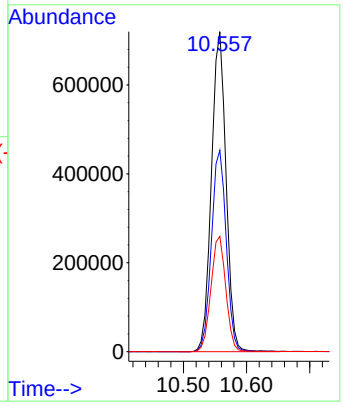




#29
2,4-Dichlorophenol
Concen: 51.665 ng
RT: 10.557 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP016413.D
Acq: 28 Jul 2023 09:12

Tgt Ion:162 Resp: 115655

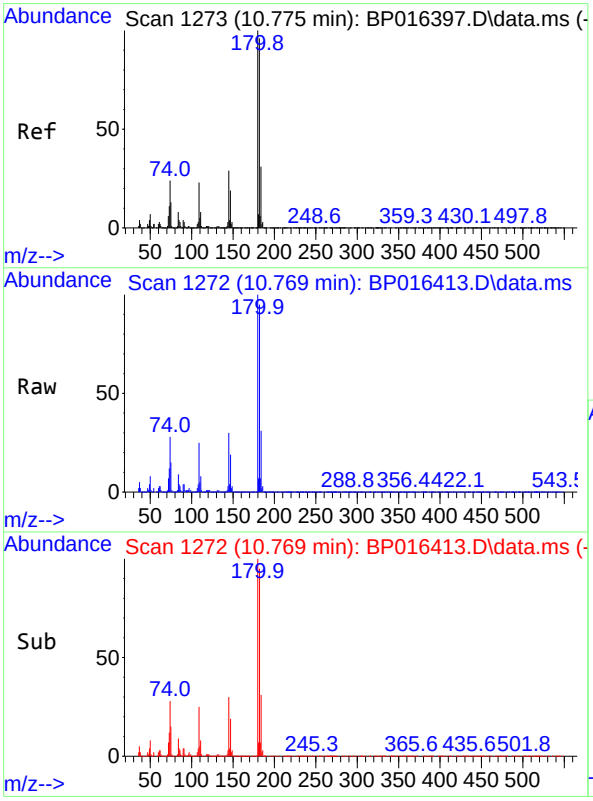
Ion	Ratio	Lower	Upper
162	100		
164	63.0	44.2	84.2
98	36.1	13.7	53.7



Instrument :
BNA_P
ClientSampleId :
PB154218BS

Manual Integrations
APPROVED

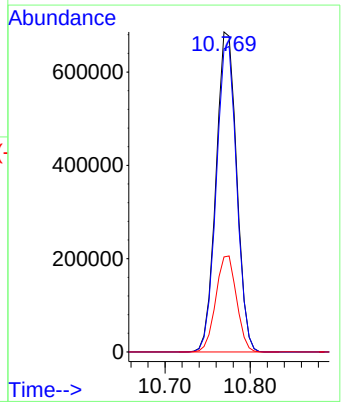
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

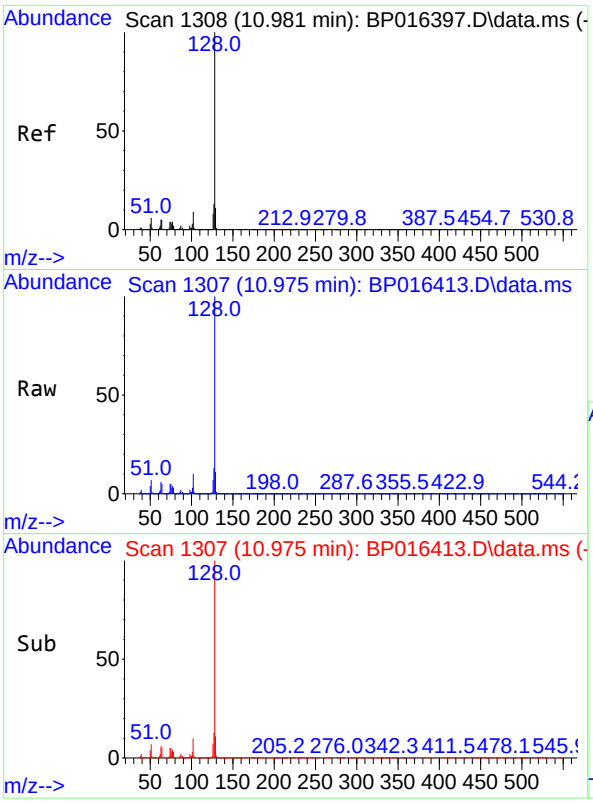


#30
1,2,4-Trichlorobenzene
Concen: 47.567 ng
RT: 10.769 min Scan# 1272
Delta R.T. -0.006 min
Lab File: BP016413.D
Acq: 28 Jul 2023 09:12

Tgt Ion:180 Resp: 1153341

Ion	Ratio	Lower	Upper
180	100		
182	94.8	77.1	115.7
145	29.7	22.9	34.3

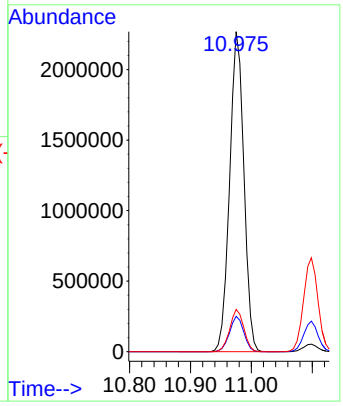




#31
Naphthalene
Concen: 47.539 ng
RT: 10.975 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP016413.D
Acq: 28 Jul 2023 09:12

Tgt Ion:128 Resp: 368634

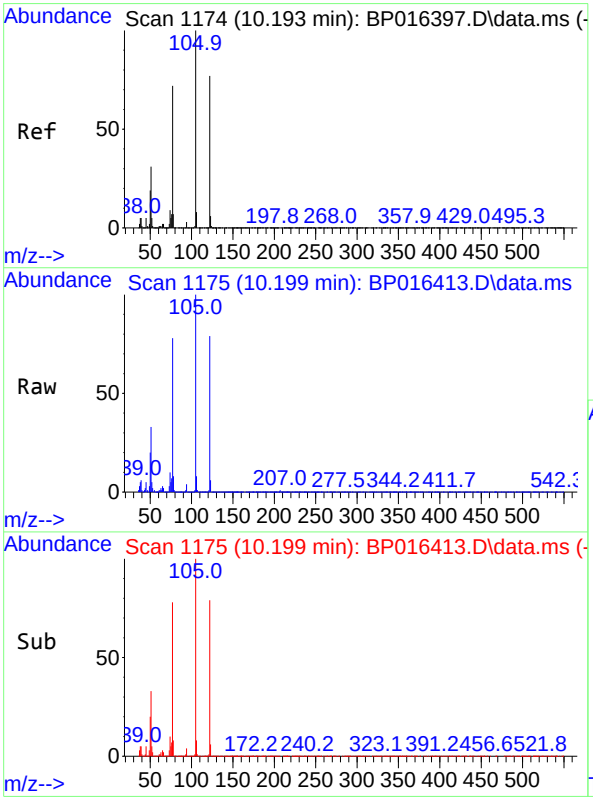
Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.6	12.8
127	13.2	10.4	15.6



Instrument :
BNA_P
ClientSampleId :
PB154218BS

Manual Integrations
APPROVED

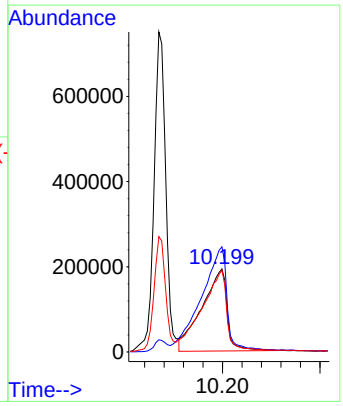
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

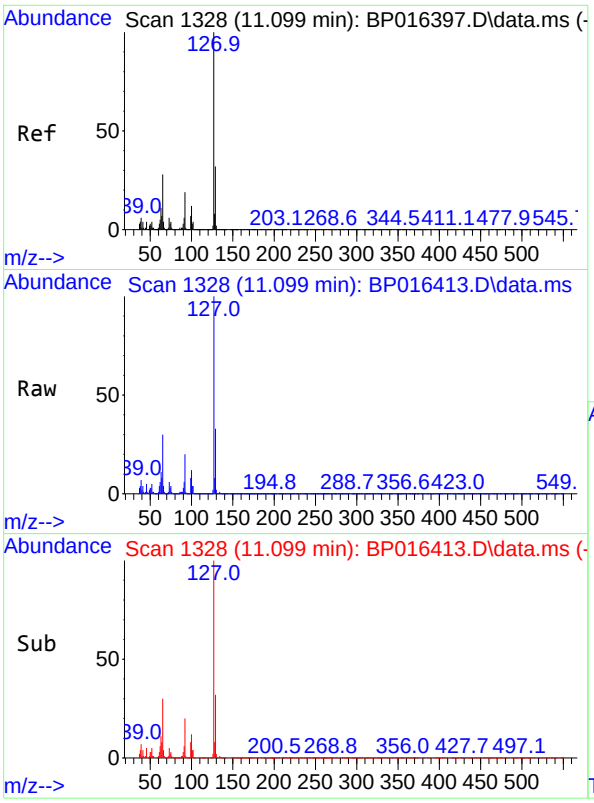


#32
Benzoic acid
Concen: 44.735 ng
RT: 10.199 min Scan# 1175
Delta R.T. 0.006 min
Lab File: BP016413.D
Acq: 28 Jul 2023 09:12

Tgt Ion:122 Resp: 694339

Ion	Ratio	Lower	Upper
122	100		
105	126.7	105.2	145.2
77	98.8	72.2	112.2

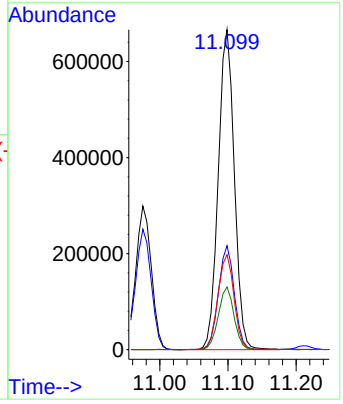




#33
4-Chloroaniline
Concen: 31.271 ng
RT: 11.099 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP016413.D
Acq: 28 Jul 2023 09:12

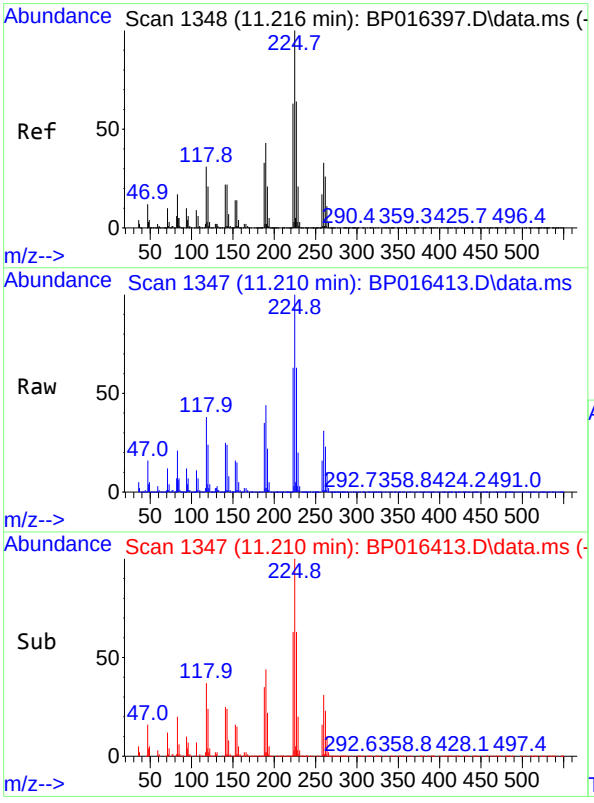
Tgt Ion:127 Resp: 109381

Ion	Ratio	Lower	Upper
127	100		
129	32.5	25.8	38.8
65	29.7	22.7	34.1
92	19.6	14.9	22.3



Instrument :
BNA_P
ClientSampleId :
PB154218BS

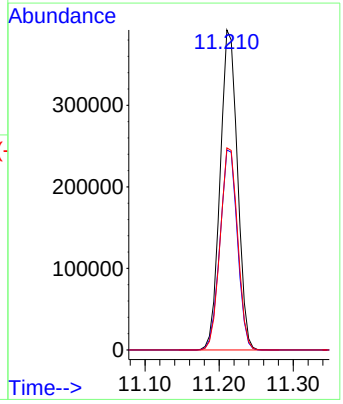
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

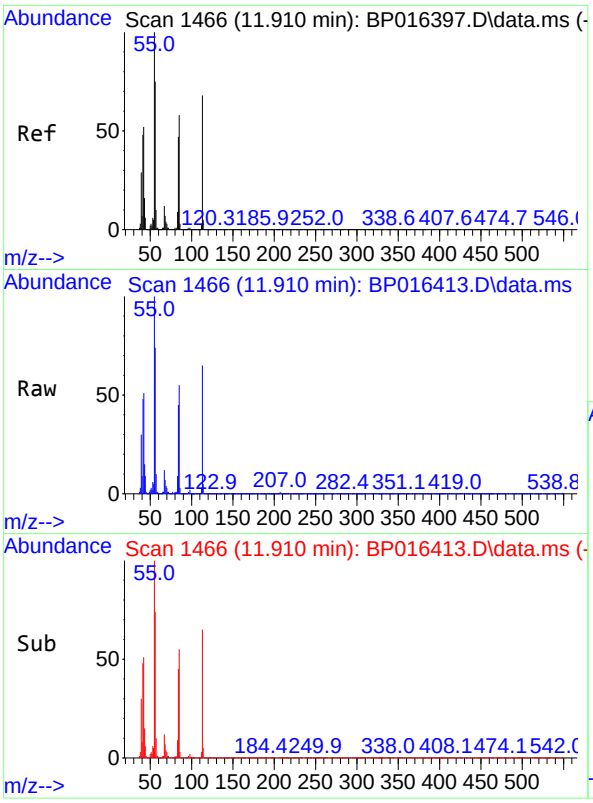


#34
Hexachlorobutadiene
Concen: 44.317 ng
RT: 11.210 min Scan# 1347
Delta R.T. -0.006 min
Lab File: BP016413.D
Acq: 28 Jul 2023 09:12

Tgt Ion:225 Resp: 636180

Ion	Ratio	Lower	Upper
225	100		
223	62.5	50.2	75.4
227	63.2	51.0	76.6

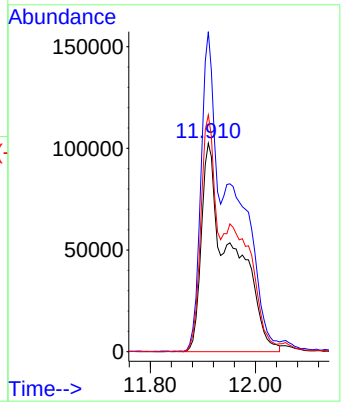




#35
Caprolactam
Concen: 50.265 ng m
RT: 11.910 min Scan# 14
Delta R.T. -0.000 min
Lab File: BP016413.D
Acq: 28 Jul 2023 09:12

Tgt Ion:113 Resp: 41116

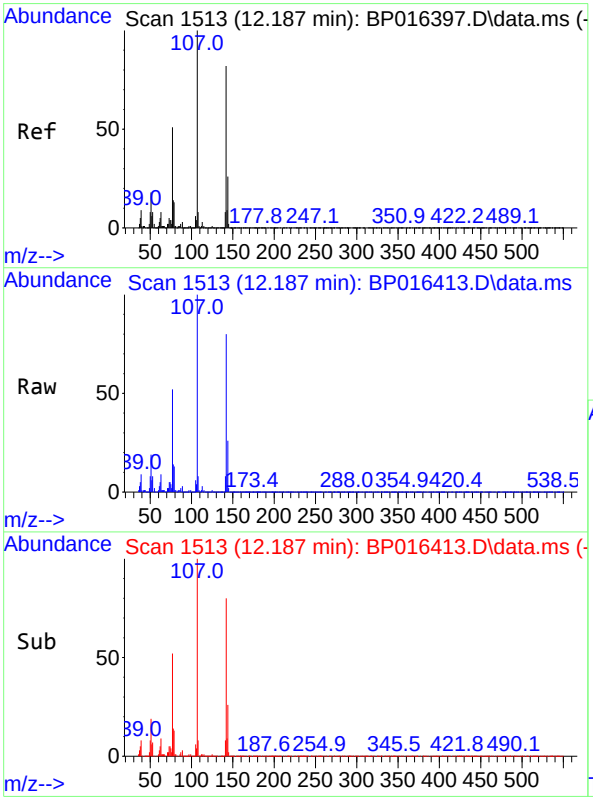
Ion	Ratio	Lower	Upper
113	100		
55	153.5	128.0	168.0
56	113.6	91.3	131.3



Instrument :
BNA_P
ClientSampleId :
PB154218BS

Manual Integrations
APPROVED

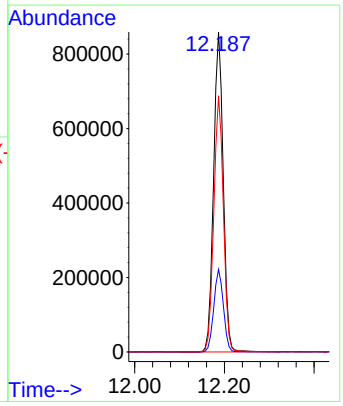
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

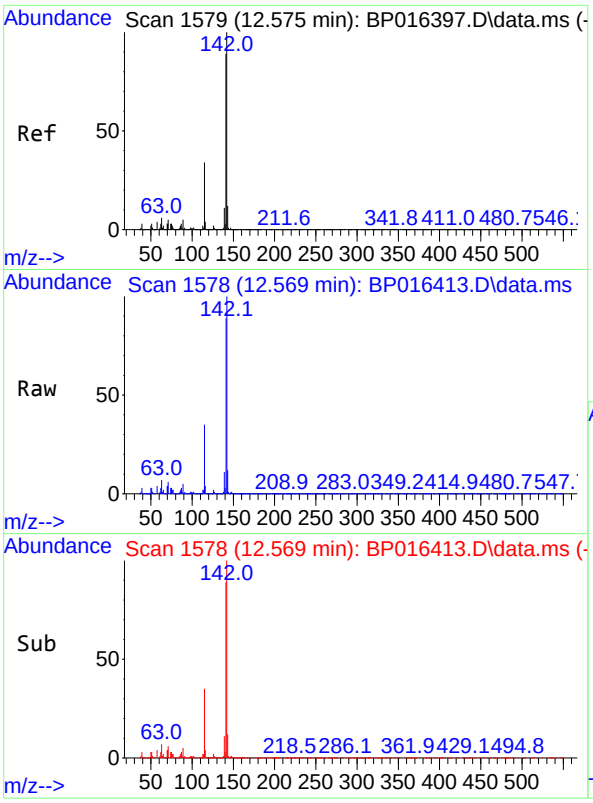


#36
4-Chloro-3-methylphenol
Concen: 51.627 ng
RT: 12.187 min Scan# 1513
Delta R.T. -0.000 min
Lab File: BP016413.D
Acq: 28 Jul 2023 09:12

Tgt Ion:107 Resp: 1284659

Ion	Ratio	Lower	Upper
107	100		
144	25.8	21.0	31.6
142	80.1	65.6	98.4

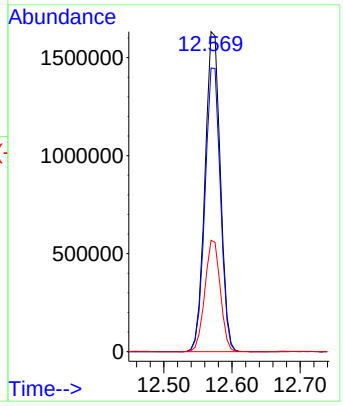




#37
2-Methylnaphthalene
Concen: 45.473 ng
RT: 12.569 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP016413.D
Acq: 28 Jul 2023 09:12

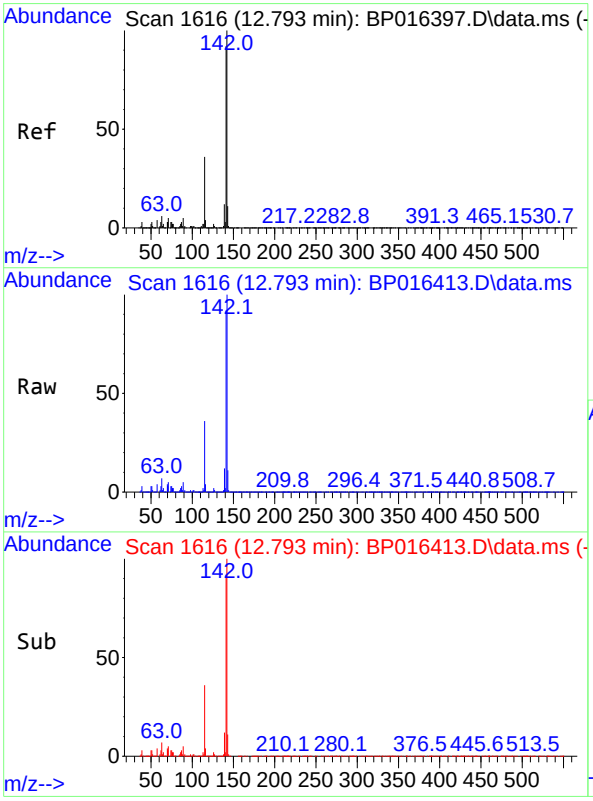
Tgt Ion:142 Resp: 256164

Ion	Ratio	Lower	Upper
142	100		
141	88.6	71.4	107.2
115	34.8	27.0	40.4



Instrument :
BNA_P
ClientSampleId :
PB154218BS

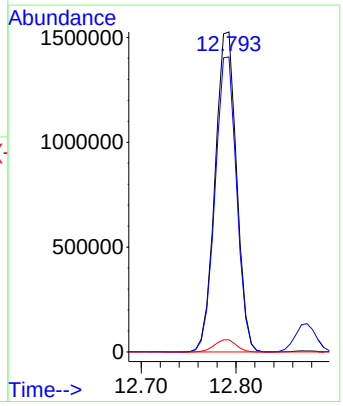
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

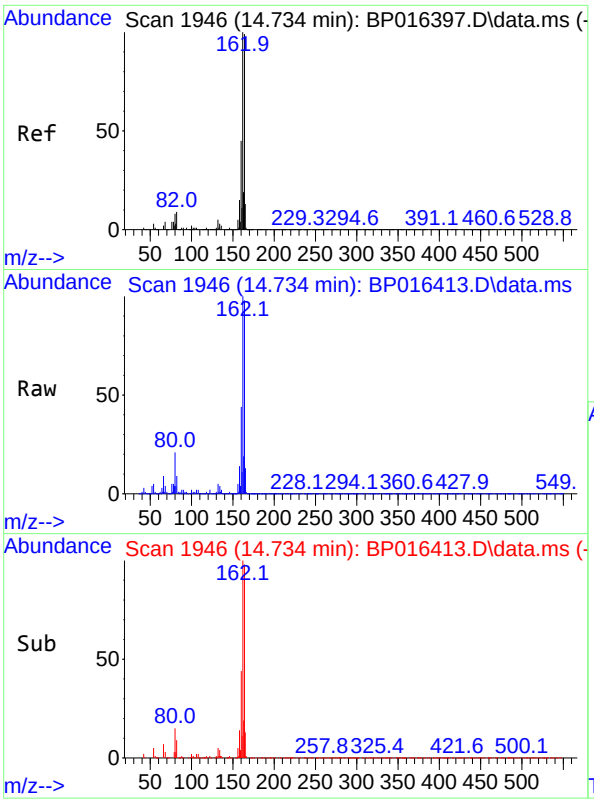


#38
1-Methylnaphthalene
Concen: 45.645 ng
RT: 12.793 min Scan# 1616
Delta R.T. -0.000 min
Lab File: BP016413.D
Acq: 28 Jul 2023 09:12

Tgt Ion:142 Resp: 2410662

Ion	Ratio	Lower	Upper
142	100		
141	92.2	73.8	110.6
116	3.8	2.9	4.3

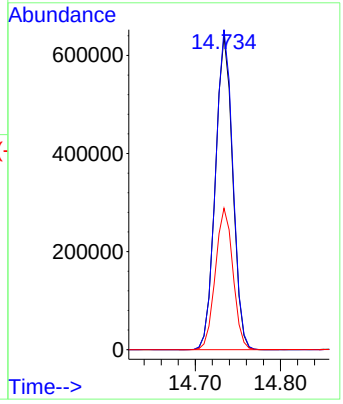




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.734 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP016413.D
Acq: 28 Jul 2023 09:12

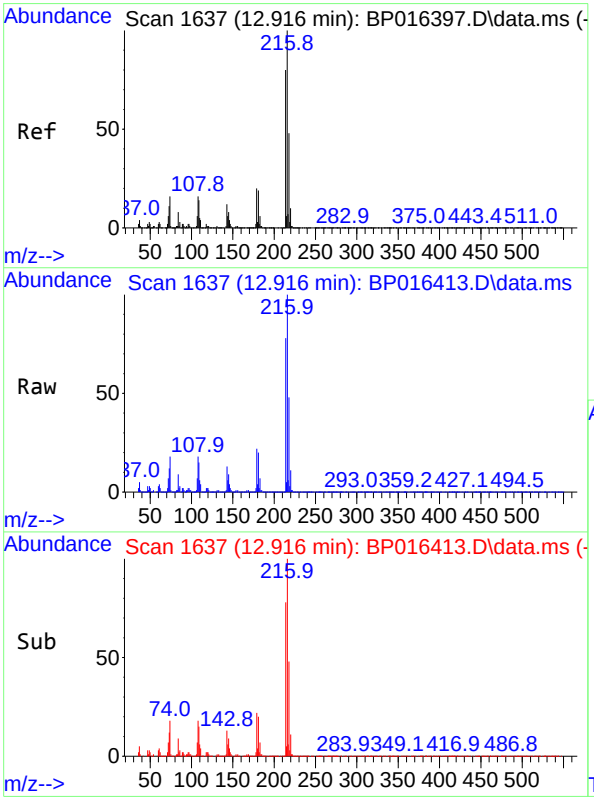
Tgt Ion:164 Resp: 90568

Ion	Ratio	Lower	Upper
164	100		
162	102.0	81.0	121.6
160	45.1	36.6	55.0



Instrument :
BNA_P
ClientSampleId :
PB154218BS

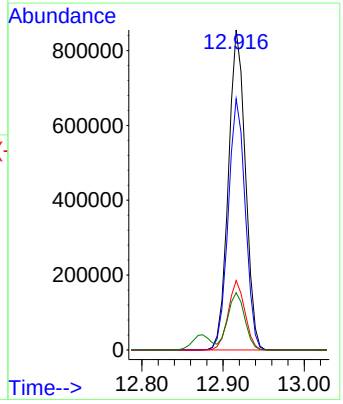
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

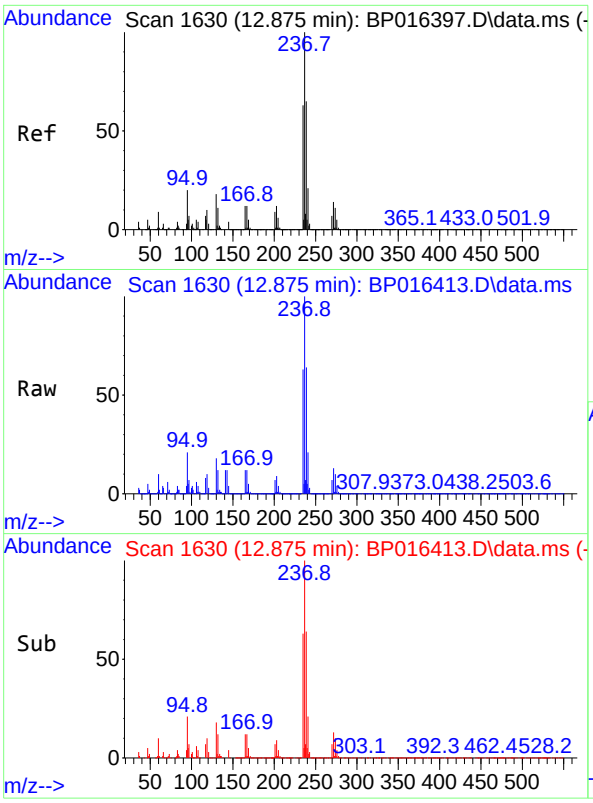


#40
1,2,4,5-Tetrachlorobenzene
Concen: 45.253 ng
RT: 12.916 min Scan# 1637
Delta R.T. -0.000 min
Lab File: BP016413.D
Acq: 28 Jul 2023 09:12

Tgt Ion:216 Resp: 1245495

Ion	Ratio	Lower	Upper
216	100		
214	78.5	62.8	94.2
179	21.2	16.0	24.0
108	17.7	12.6	19.0

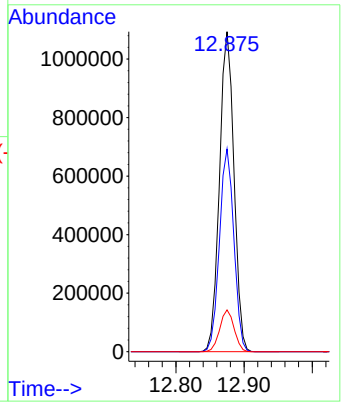




#41
Hexachlorocyclopentadiene
Concen: 117.048 ng
RT: 12.875 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP016413.D
Acq: 28 Jul 2023 09:12

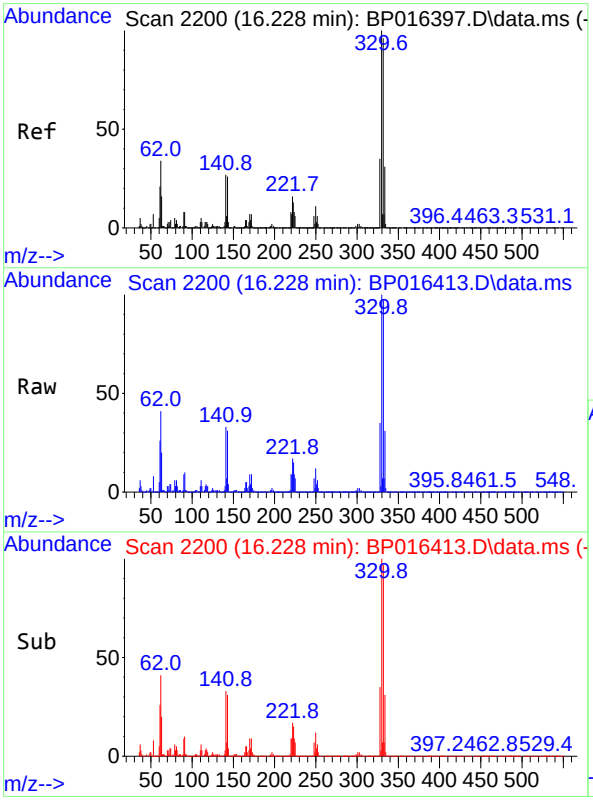
Tgt Ion:237 Resp: 161797

Ion	Ratio	Lower	Upper
237	100		
235	63.4	42.7	82.7
272	13.1	0.0	33.5



Instrument :
BNA_P
ClientSampleId :
PB154218BS

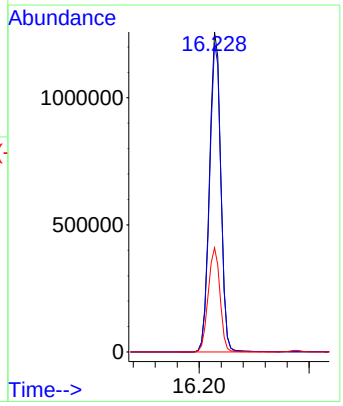
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

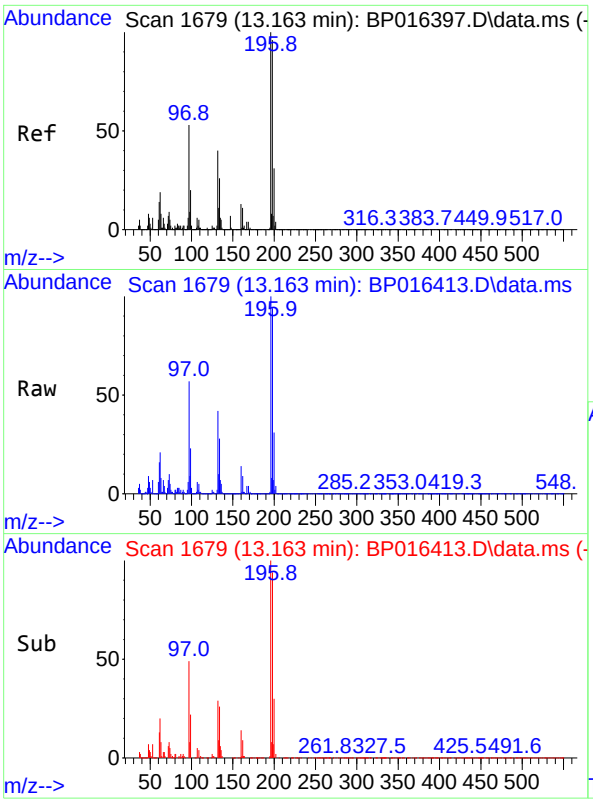


#42
2,4,6-Tribromophenol
Concen: 134.657 ng
RT: 16.228 min Scan# 2200
Delta R.T. -0.000 min
Lab File: BP016413.D
Acq: 28 Jul 2023 09:12

Tgt Ion:330 Resp: 1794162

Ion	Ratio	Lower	Upper
330	100		
332	96.7	77.8	116.8
141	33.9	22.6	34.0

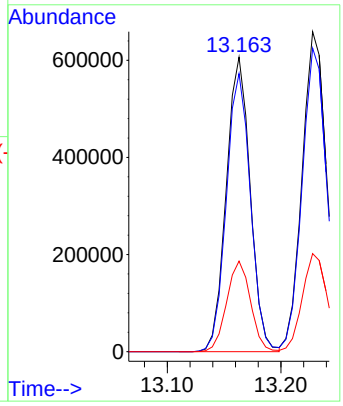




#43
2,4,6-Trichlorophenol
Concen: 50.285 ng
RT: 13.163 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP016413.D
Acq: 28 Jul 2023 09:12

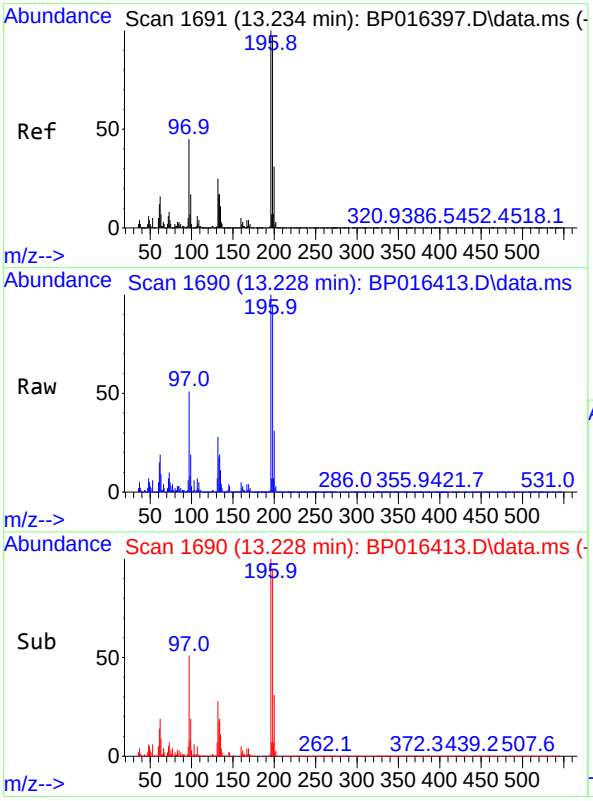
Tgt Ion:196 Resp: 88802

Ion	Ratio	Lower	Upper
196	100		
198	94.4	77.0	115.4
200	30.7	24.5	36.7



Instrument :
BNA_P
ClientSampleId :
PB154218BS

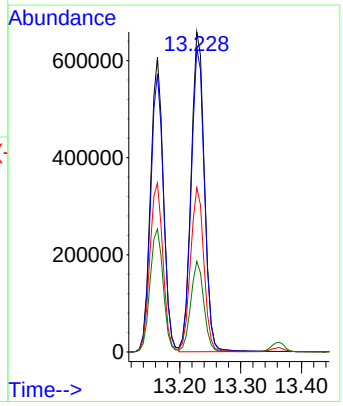
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

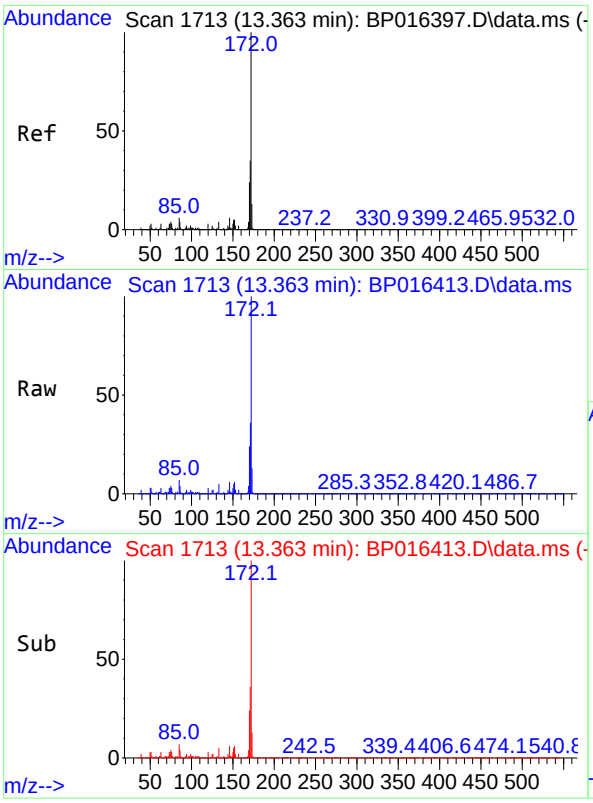


#44
2,4,5-Trichlorophenol
Concen: 46.397 ng
RT: 13.228 min Scan# 1690
Delta R.T. -0.006 min
Lab File: BP016413.D
Acq: 28 Jul 2023 09:12

Tgt Ion:196 Resp: 994065

Ion	Ratio	Lower	Upper
196	100		
198	94.8	77.3	115.9
97	51.3	36.2	54.4
132	28.3	20.2	30.4

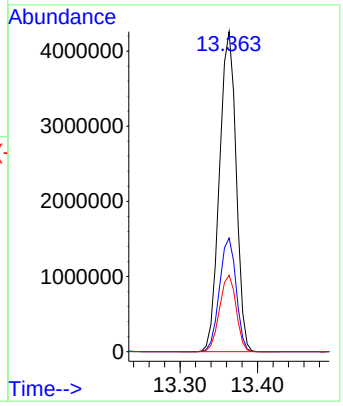




#45
2-Fluorobiphenyl
Concen: 100.727 ng
RT: 13.363 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP016413.D
Acq: 28 Jul 2023 09:12

Tgt Ion:172 Resp: 636320

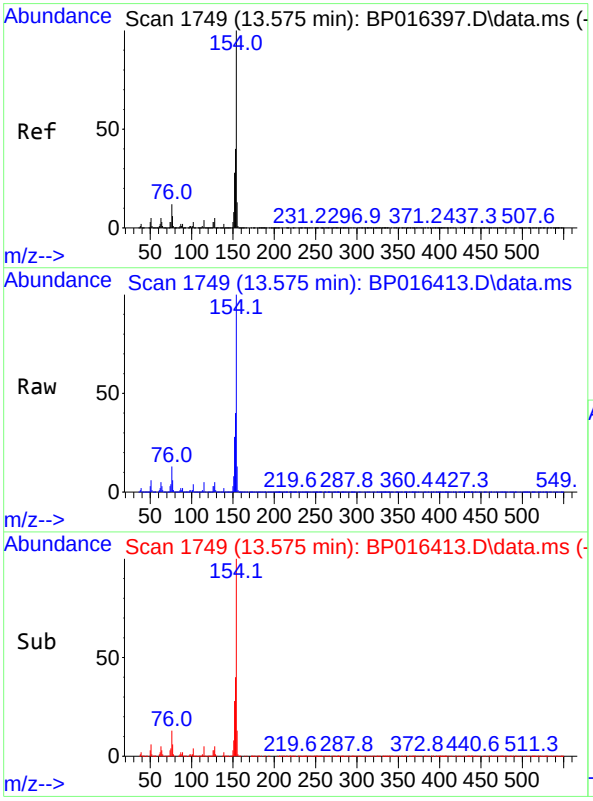
Ion	Ratio	Lower	Upper
172	100		
171	35.5	28.2	42.2
170	23.9	19.1	28.7



Instrument :
BNA_P
ClientSampleId :
PB154218BS

Manual Integrations
APPROVED

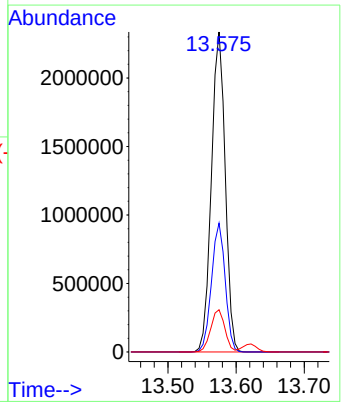
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

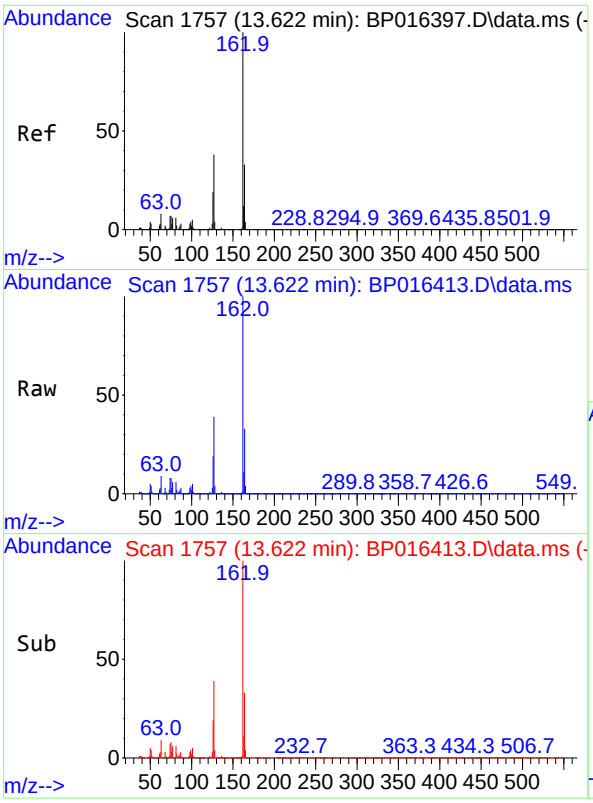


#46
1,1'-Biphenyl
Concen: 47.594 ng
RT: 13.575 min Scan# 1749
Delta R.T. -0.000 min
Lab File: BP016413.D
Acq: 28 Jul 2023 09:12

Tgt Ion:154 Resp: 3285804

Ion	Ratio	Lower	Upper
154	100		
153	40.3	20.1	60.1
76	13.2	0.0	32.5

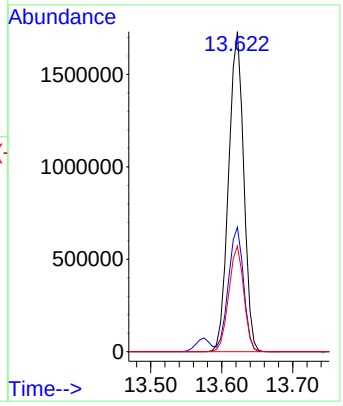




#47
2-Chloronaphthalene
Concen: 49.115 ng
RT: 13.622 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP016413.D
Acq: 28 Jul 2023 09:12

Tgt Ion:162 Resp: 255816

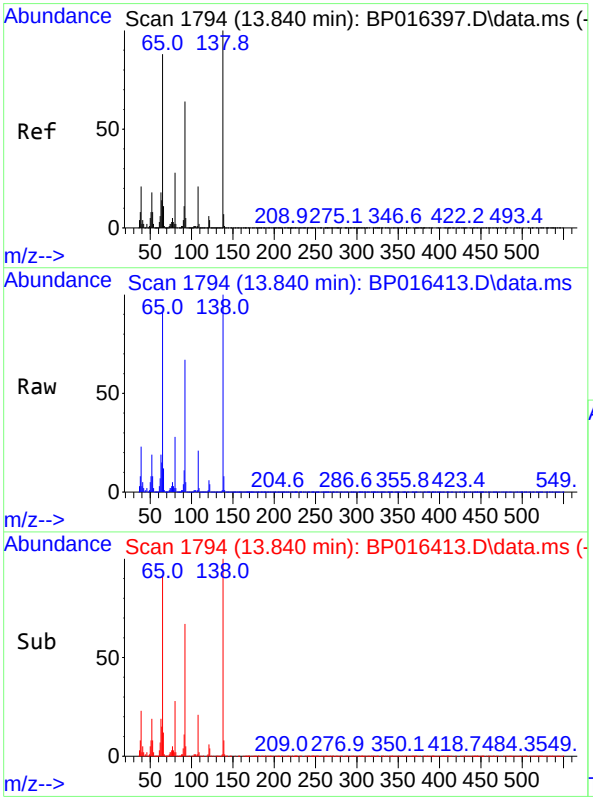
Ion	Ratio	Lower	Upper
162	100		
127	38.9	30.1	45.1
164	33.0	26.6	39.8



Instrument :
BNA_P
ClientSampleId :
PB154218BS

Manual Integrations
APPROVED

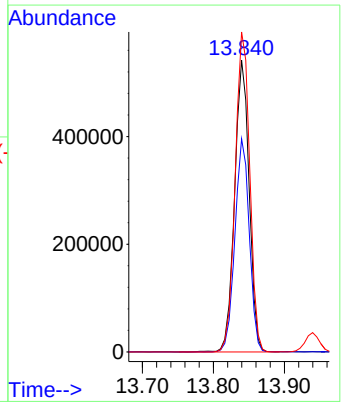
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

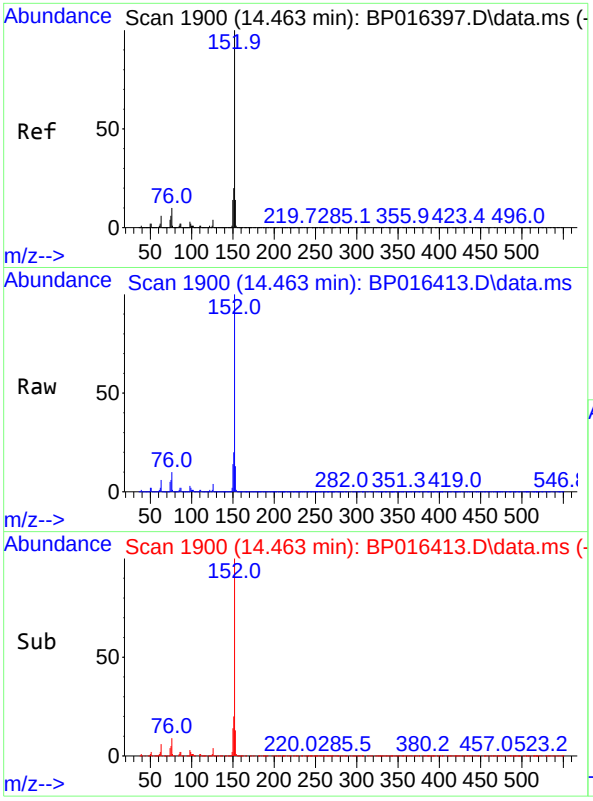


#48
2-Nitroaniline
Concen: 52.604 ng
RT: 13.840 min Scan# 1794
Delta R.T. -0.000 min
Lab File: BP016413.D
Acq: 28 Jul 2023 09:12

Tgt Ion: 65 Resp: 772319

Ion	Ratio	Lower	Upper
65	100		
92	73.1	58.2	87.4
138	109.7	91.3	136.9

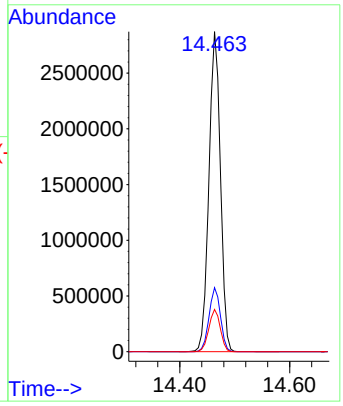




#49
Acenaphthylene
Concen: 48.096 ng
RT: 14.463 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP016413.D
Acq: 28 Jul 2023 09:12

Tgt Ion:152 Resp: 415648

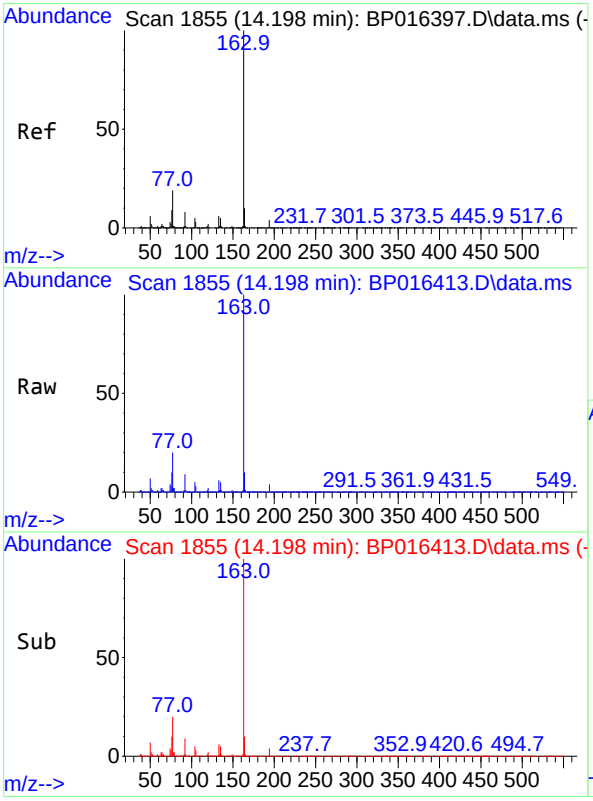
Ion	Ratio	Lower	Upper
152	100		
151	20.0	16.2	24.4
153	13.2	10.8	16.2



Instrument :
BNA_P
ClientSampleId :
PB154218BS

Manual Integrations
APPROVED

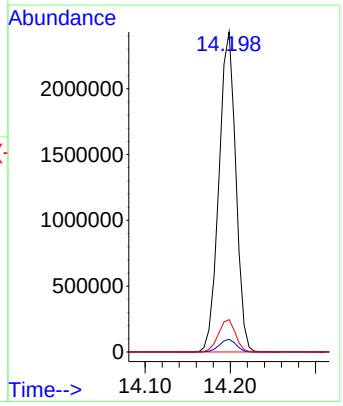
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

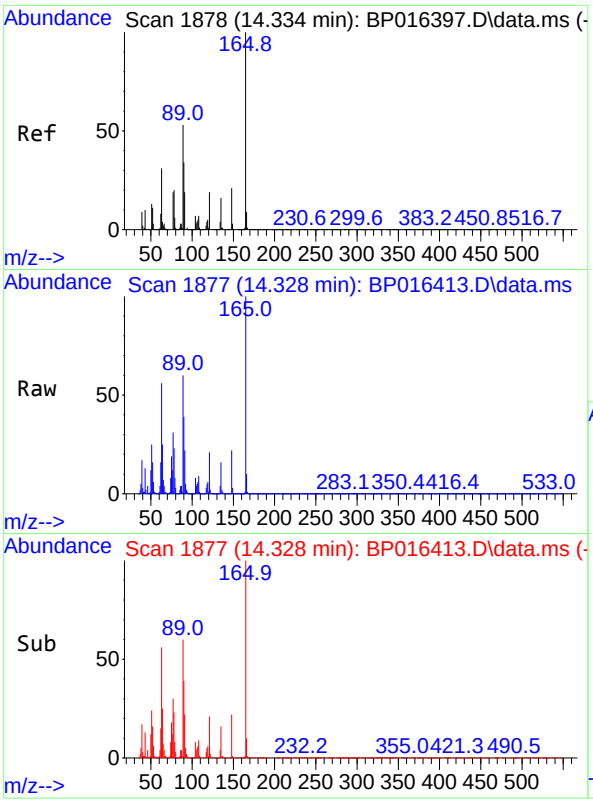


#50
Dimethylphthalate
Concen: 47.335 ng
RT: 14.198 min Scan# 1855
Delta R.T. -0.000 min
Lab File: BP016413.D
Acq: 28 Jul 2023 09:12

Tgt Ion:163 Resp: 3340748

Ion	Ratio	Lower	Upper
163	100		
194	4.0	3.4	5.2
164	10.1	8.2	12.2

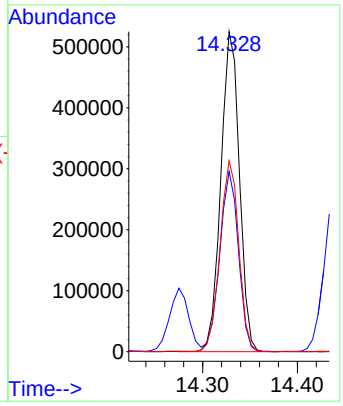




#51
2,6-Dinitrotoluene
Concen: 49.376 ng
RT: 14.328 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP016413.D
Acq: 28 Jul 2023 09:12

Tgt Ion:165 Resp: 71390

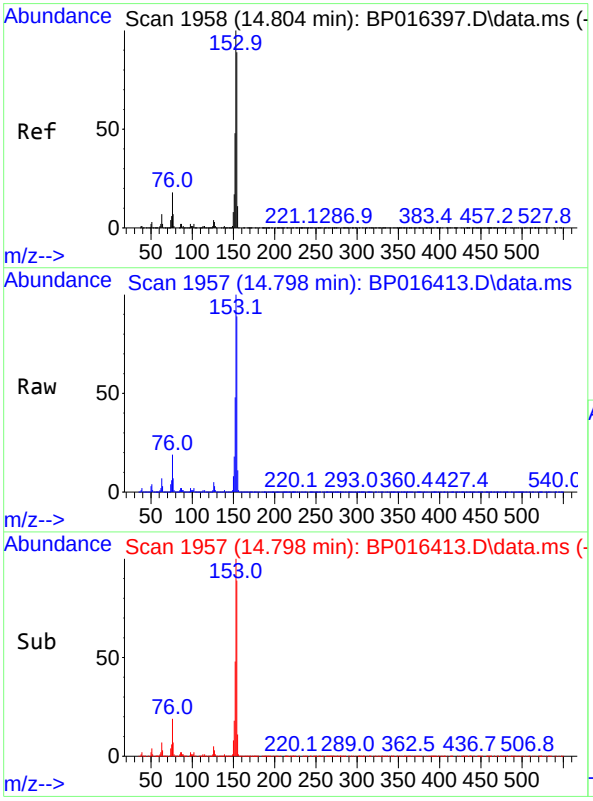
Ion	Ratio	Lower	Upper
165	100		
63	56.3	39.1	58.7
89	59.7	42.5	63.7



Instrument :
BNA_P
ClientSampleId :
PB154218BS

Manual Integrations APPROVED

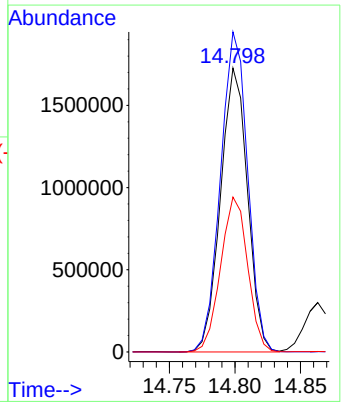
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

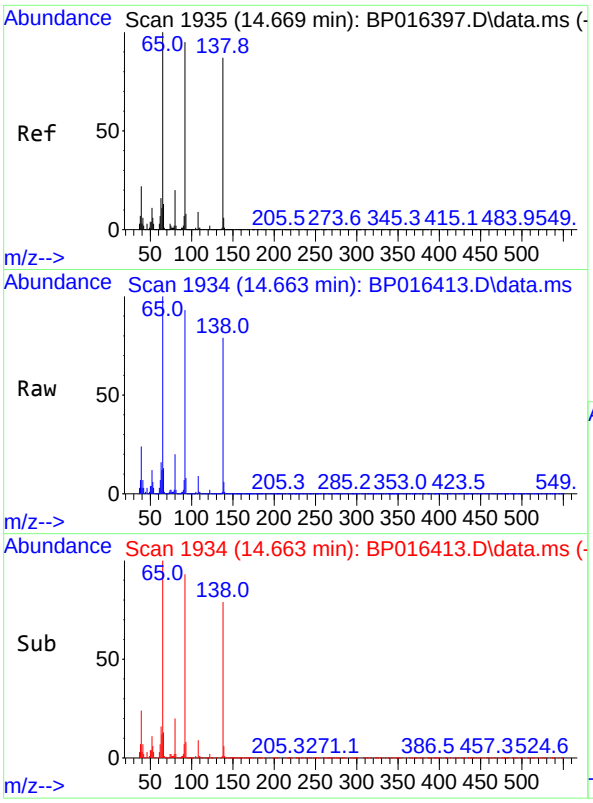


#52
Acenaphthene
Concen: 48.053 ng
RT: 14.798 min Scan# 1957
Delta R.T. -0.006 min
Lab File: BP016413.D
Acq: 28 Jul 2023 09:12

Tgt Ion:154 Resp: 2469468

Ion	Ratio	Lower	Upper
154	100		
153	112.8	90.4	135.6
152	54.6	43.4	65.0

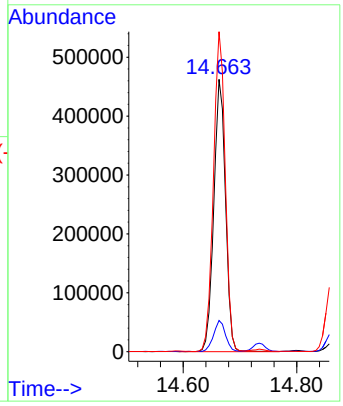




#53
3-Nitroaniline
Concen: 40.216 ng
RT: 14.663 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP016413.D
Acq: 28 Jul 2023 09:12

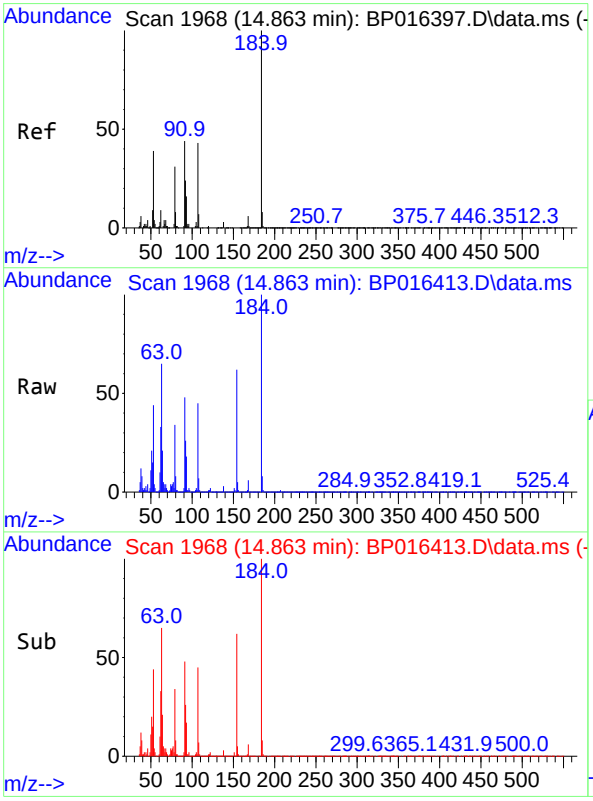
Tgt Ion:138 Resp: 65737

Ion	Ratio	Lower	Upper
138	100		
108	11.5	8.7	13.1
92	117.5	87.6	131.4



Instrument :
BNA_P
ClientSampleId :
PB154218BS

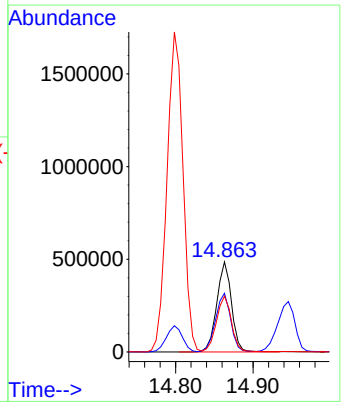
Manual Integrations APPROVED
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

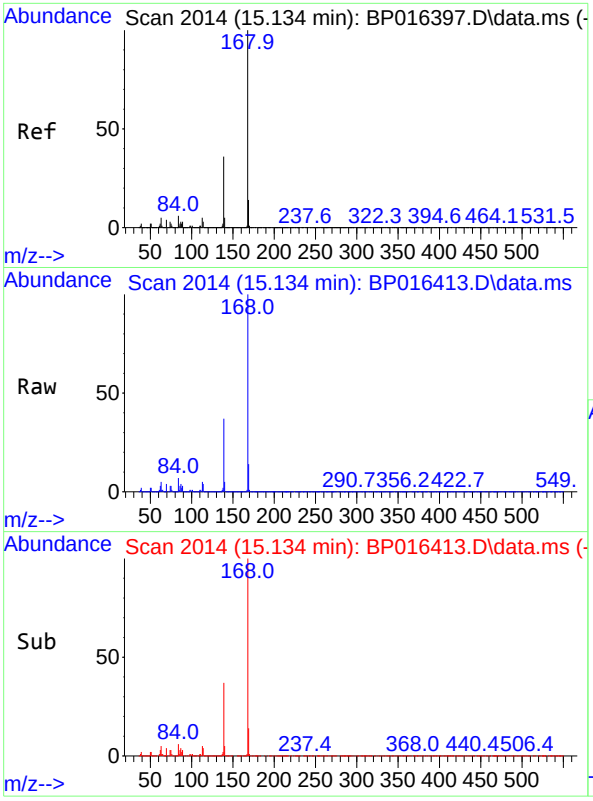


#54
2,4-Dinitrophenol
Concen: 93.221 ng
RT: 14.863 min Scan# 1968
Delta R.T. 0.000 min
Lab File: BP016413.D
Acq: 28 Jul 2023 09:12

Tgt Ion:184 Resp: 640485

Ion	Ratio	Lower	Upper
184	100		
63	65.3	48.2	72.4
154	62.0	49.6	74.4

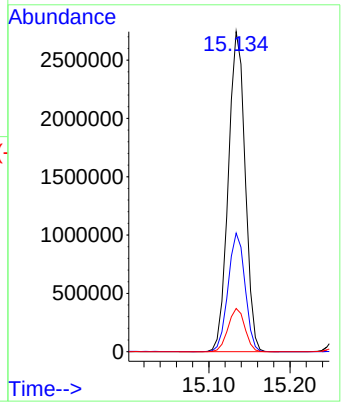




#55
Dibenzofuran
Concen: 46.771 ng
RT: 15.134 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP016413.D
Acq: 28 Jul 2023 09:12

Tgt Ion:168 Resp: 394204

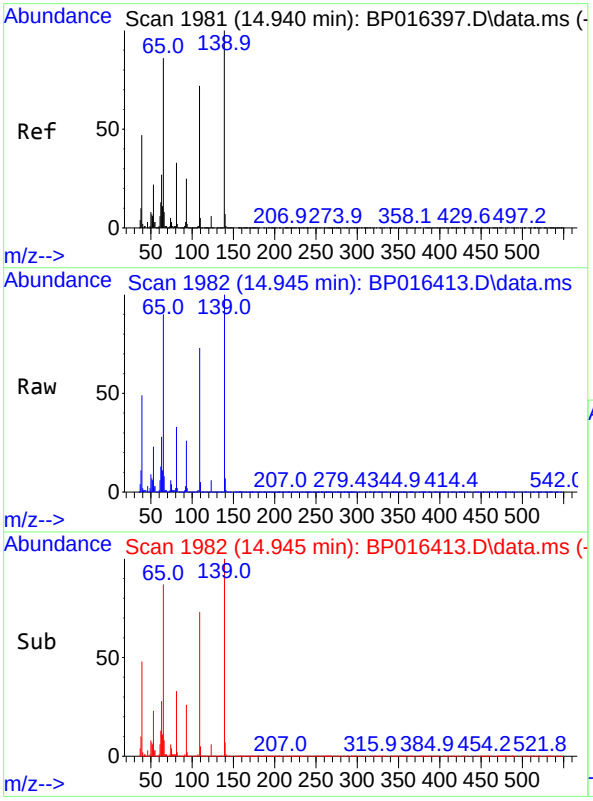
Ion	Ratio	Lower	Upper
168	100		
139	37.0	28.9	43.3
169	13.5	11.0	16.4



Instrument :
BNA_P
ClientSampleId :
PB154218BS

Manual Integrations
APPROVED

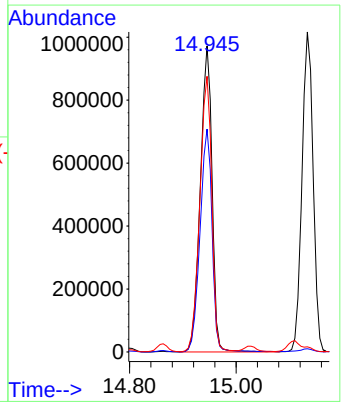
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

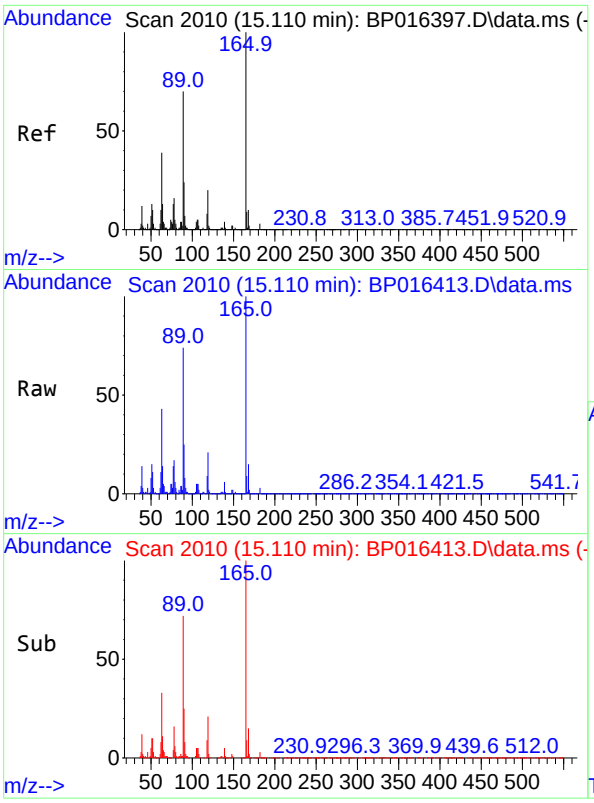


#56
4-Nitrophenol
Concen: 116.172 ng
RT: 14.945 min Scan# 1982
Delta R.T. 0.006 min
Lab File: BP016413.D
Acq: 28 Jul 2023 09:12

Tgt Ion:139 Resp: 1486507

Ion	Ratio	Lower	Upper
139	100		
109	72.8	51.9	91.9
65	90.1	66.2	106.2

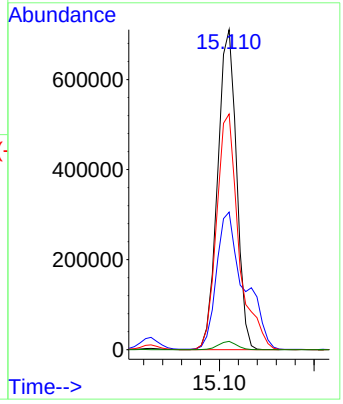




#57
2,4-Dinitrotoluene
Concen: 52.348 ng
RT: 15.110 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP016413.D
Acq: 28 Jul 2023 09:12

Tgt Ion:165 Resp: 98641

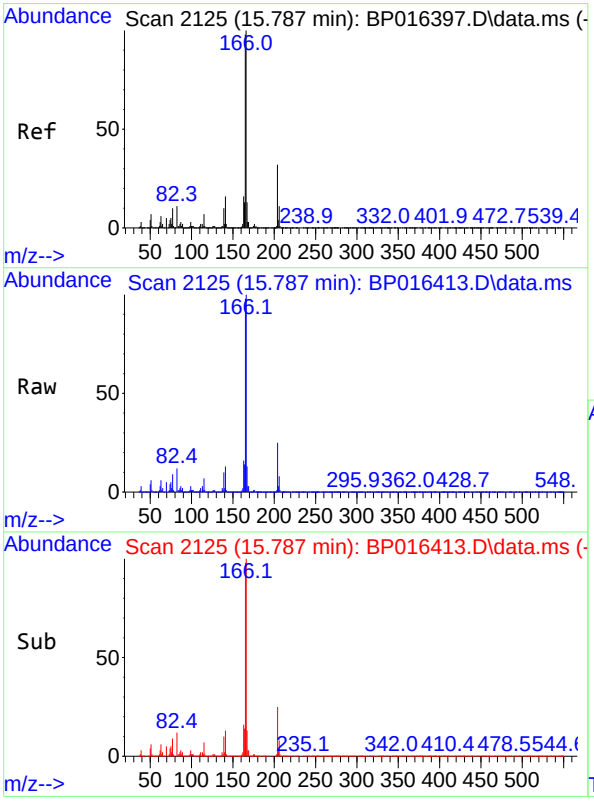
Ion	Ratio	Lower	Upper
165	100		
63	43.0	31.4	47.0
89	73.7	55.8	83.6
182	2.6	2.2	3.2



Instrument :
BNA_P
ClientSampleId :
PB154218BS

Manual Integrations
APPROVED

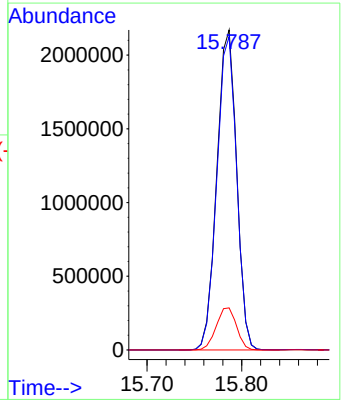
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

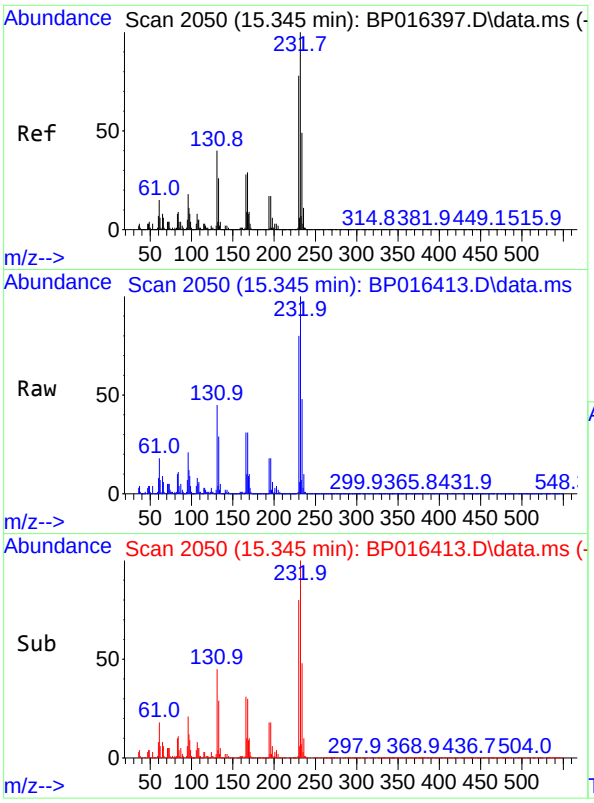


#58
Fluorene
Concen: 47.567 ng
RT: 15.787 min Scan# 2125
Delta R.T. -0.000 min
Lab File: BP016413.D
Acq: 28 Jul 2023 09:12

Tgt Ion:166 Resp: 3149698

Ion	Ratio	Lower	Upper
166	100		
165	98.0	78.0	117.0
167	13.2	10.6	16.0

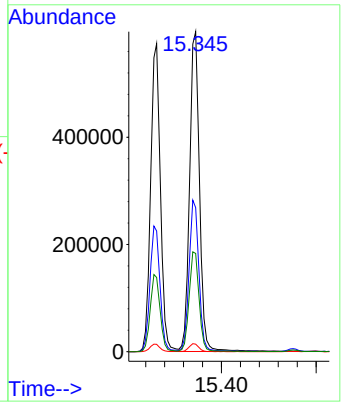




#59
2,3,4,6-Tetrachlorophenol
Concen: 48.690 ng
RT: 15.345 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP016413.D
Acq: 28 Jul 2023 09:12

Tgt Ion:232 Resp: 85814

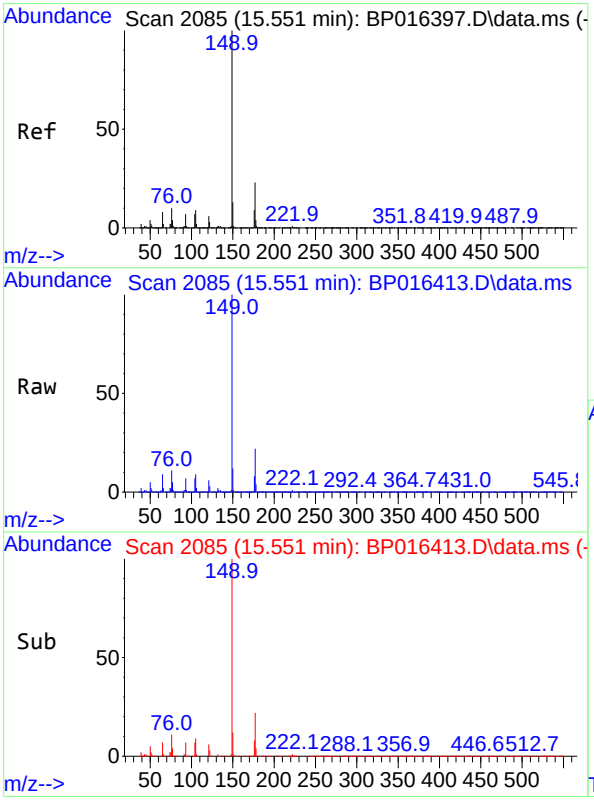
Ion	Ratio	Lower	Upper
232	100		
131	47.0	33.1	49.7
130	2.5	1.8	2.8
166	31.4	23.0	34.4



Instrument :
BNA_P
ClientSampleId :
PB154218BS

Manual Integrations
APPROVED

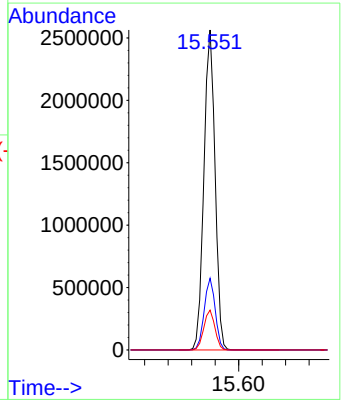
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

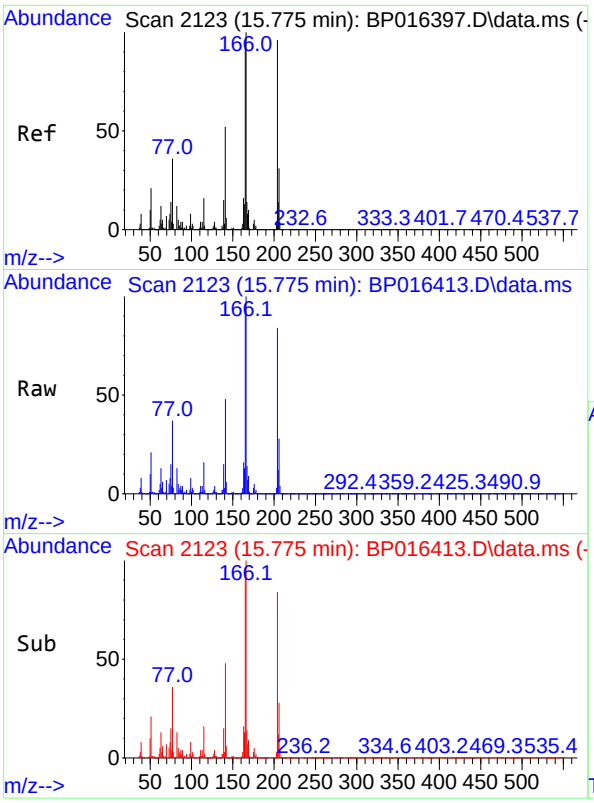


#60
Diethylphthalate
Concen: 47.976 ng
RT: 15.551 min Scan# 2085
Delta R.T. -0.000 min
Lab File: BP016413.D
Acq: 28 Jul 2023 09:12

Tgt Ion:149 Resp: 3364953

Ion	Ratio	Lower	Upper
149	100		
177	22.4	18.6	27.8
150	12.5	10.1	15.1





#61
4-Chlorophenyl-phenylether
Concen: 45.491 ng
RT: 15.775 min Scan# 21
Delta R.T. -0.000 min
Lab File: BP016413.D
Acq: 28 Jul 2023 09:12

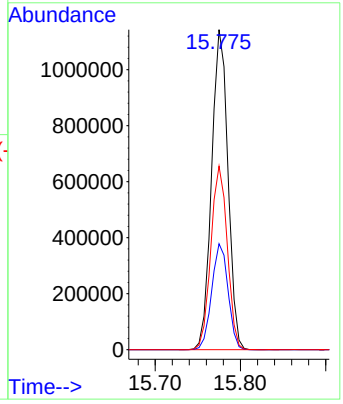
Tgt Ion:204 Resp: 152003

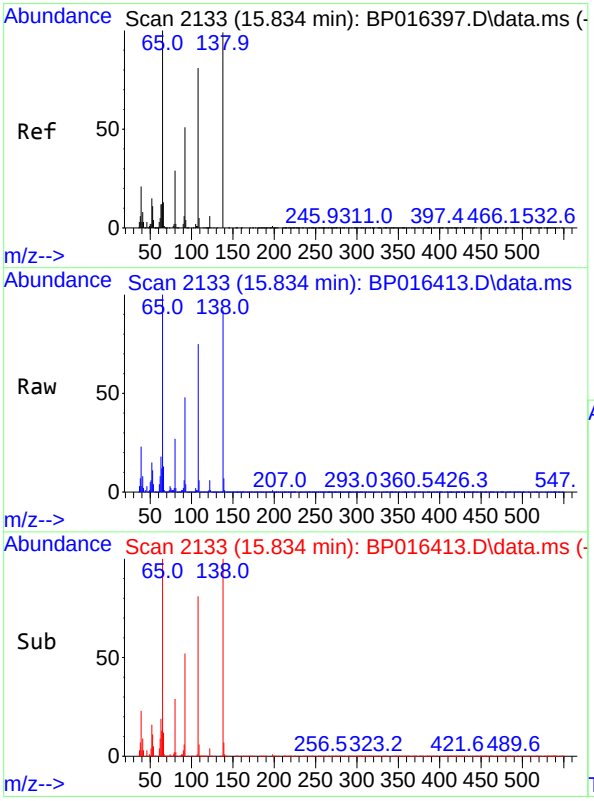
Ion	Ratio	Lower	Upper
204	100		
206	33.1	26.2	39.4
141	57.3	43.4	65.0

Instrument :
BNA_P
ClientSampleId :
PB154218BS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

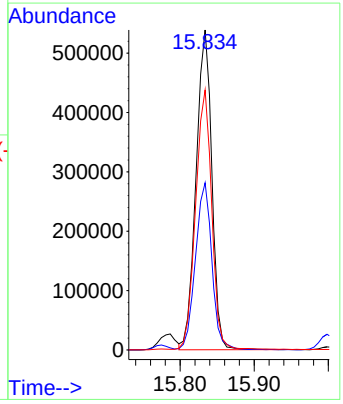


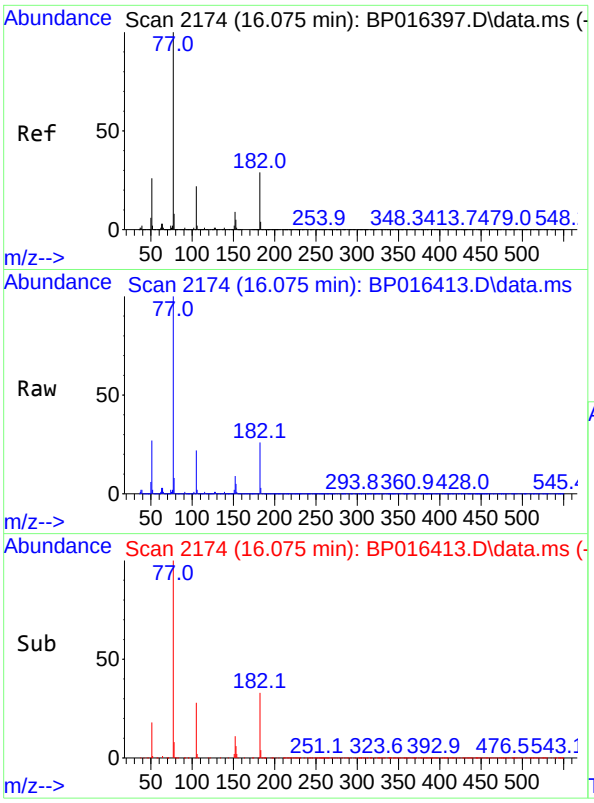


#62
4-Nitroaniline
Concen: 49.024 ng
RT: 15.834 min Scan# 2133
Delta R.T. -0.000 min
Lab File: BP016413.D
Acq: 28 Jul 2023 09:12

Tgt Ion:138 Resp: 795278

Ion	Ratio	Lower	Upper
138	100		
92	52.2	30.3	70.3
108	81.2	60.1	100.1





#63
Azobenzene
Concen: 49.552 ng
RT: 16.075 min Scan# 21
Delta R.T. -0.000 min
Lab File: BP016413.D
Acq: 28 Jul 2023 09:12

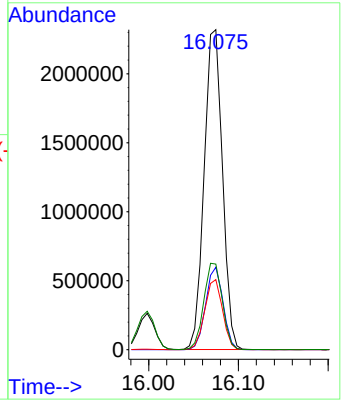
Instrument :
BNA_P
ClientSampleId :
PB154218BS

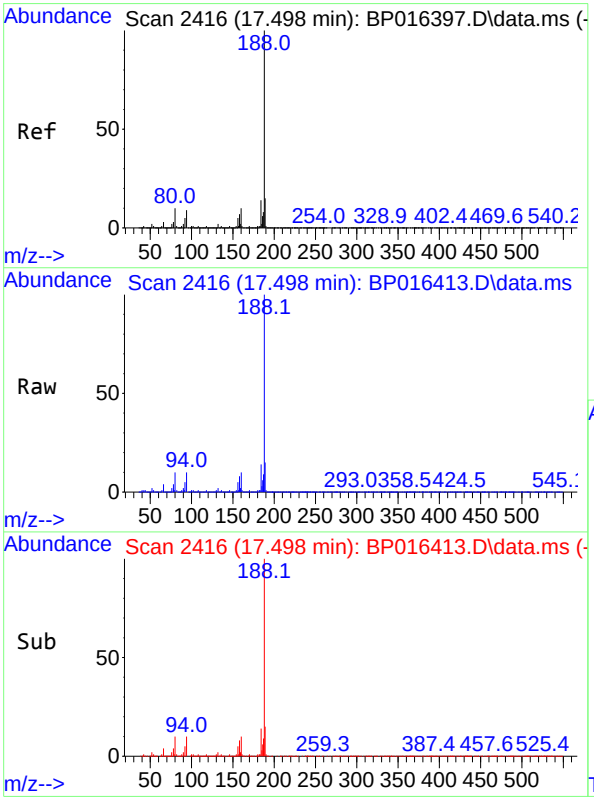
Tgt Ion: 77 Resp: 328164

Ion	Ratio	Lower	Upper
77	100		
182	25.8	8.6	48.6
105	21.9	2.4	42.4
51	26.7	6.2	46.2

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

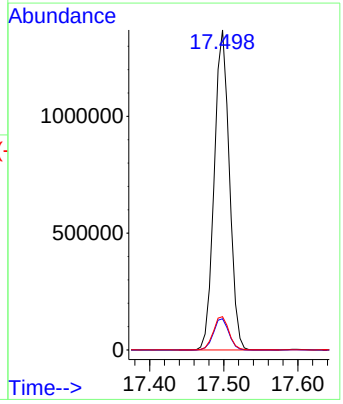


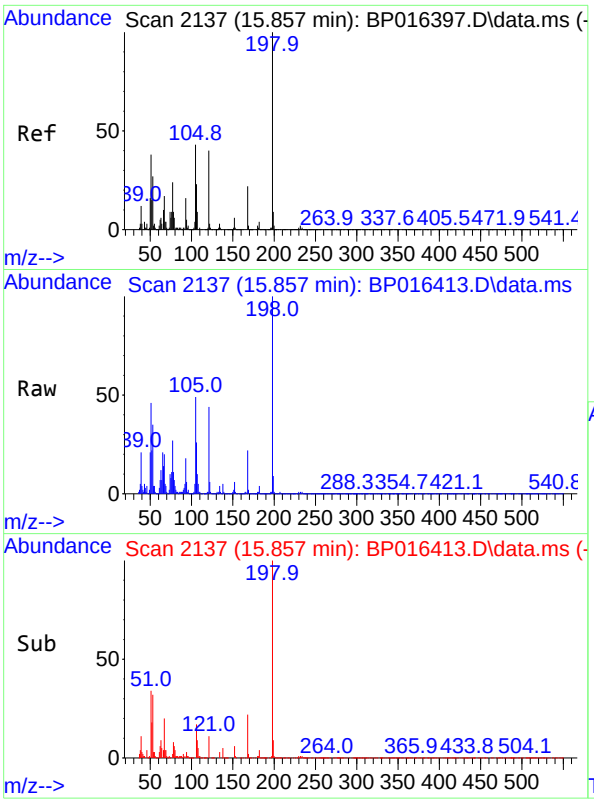


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.498 min Scan# 2416
Delta R.T. -0.000 min
Lab File: BP016413.D
Acq: 28 Jul 2023 09:12

Tgt Ion:188 Resp: 1936048

Ion	Ratio	Lower	Upper
188	100		
94	9.7	7.4	11.0
80	10.4	7.8	11.8

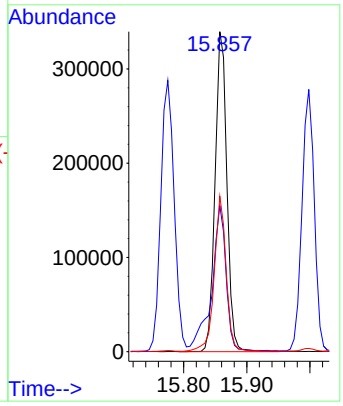




#65
4,6-Dinitro-2-methylphenol
Concen: 48.485 ng
RT: 15.857 min Scan# 21
Delta R.T. 0.000 min
Lab File: BP016413.D
Acq: 28 Jul 2023 09:12

Tgt Ion:198 Resp: 44019

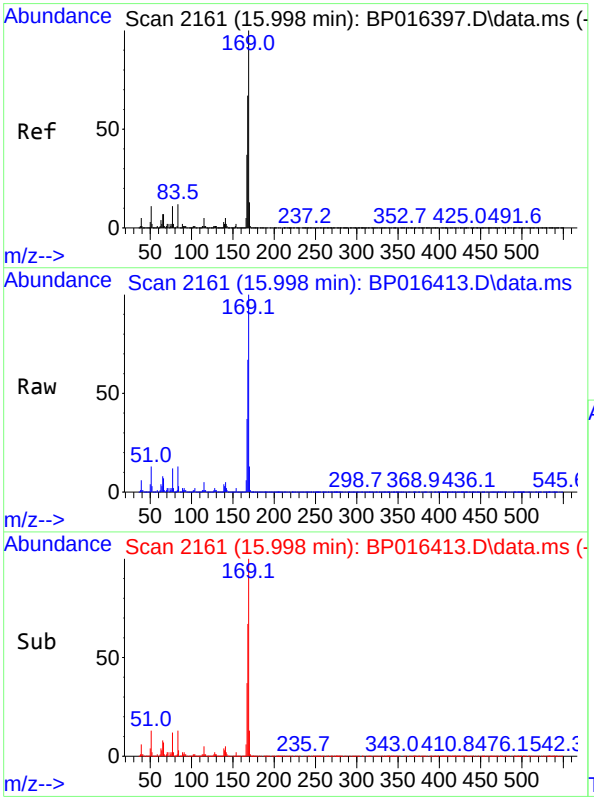
Ion	Ratio	Lower	Upper
198	100		
51	45.6	20.1	60.1
105	48.6	23.1	63.1



Instrument :
BNA_P
ClientSampleId :
PB154218BS

Manual Integrations
APPROVED

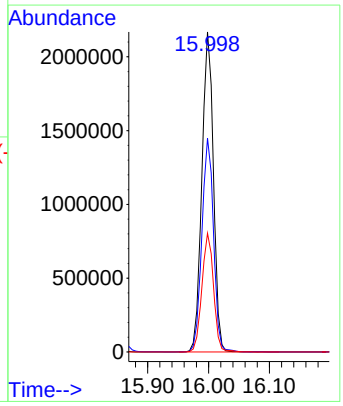
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

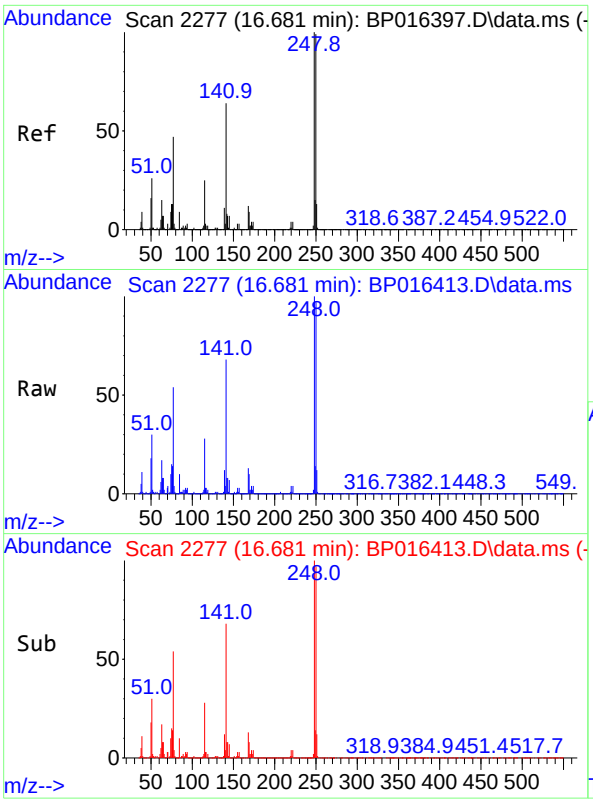


#66
n-Nitrosodiphenylamine
Concen: 49.813 ng
RT: 15.998 min Scan# 2161
Delta R.T. -0.000 min
Lab File: BP016413.D
Acq: 28 Jul 2023 09:12

Tgt Ion:169 Resp: 2842176

Ion	Ratio	Lower	Upper
169	100		
168	66.8	53.6	80.4
167	37.1	29.2	43.8

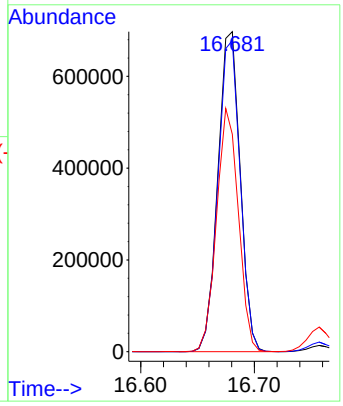




#67
4-Bromophenyl-phenylether
Concen: 46.450 ng
RT: 16.681 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP016413.D
Acq: 28 Jul 2023 09:12

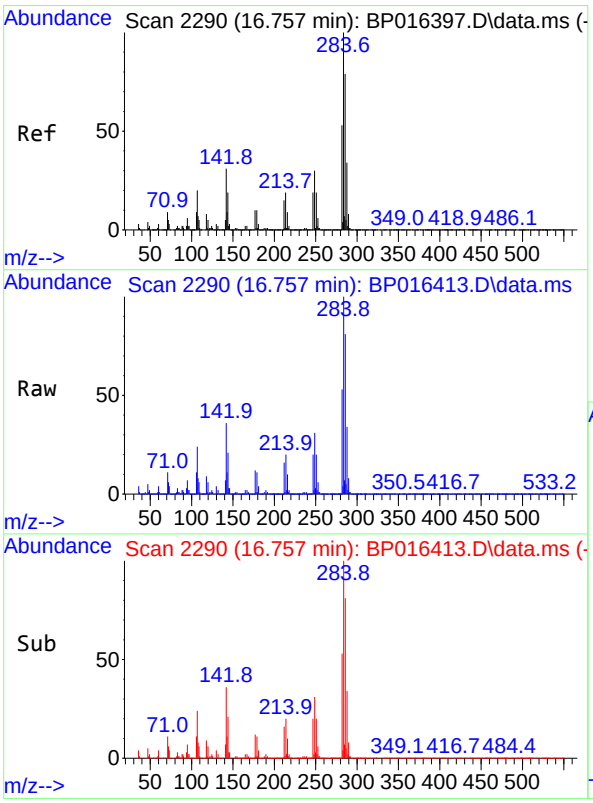
Tgt Ion:248 Resp: 95223

Ion	Ratio	Lower	Upper
248	100		
250	97.3	78.9	118.3
141	68.0	51.0	76.4



Instrument :
BNA_P
ClientSampleId :
PB154218BS

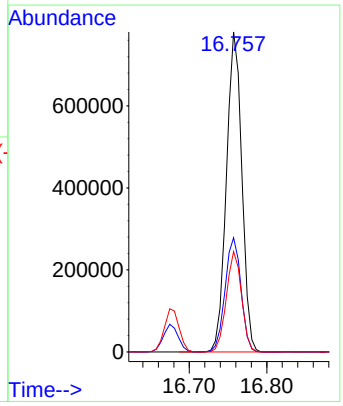
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

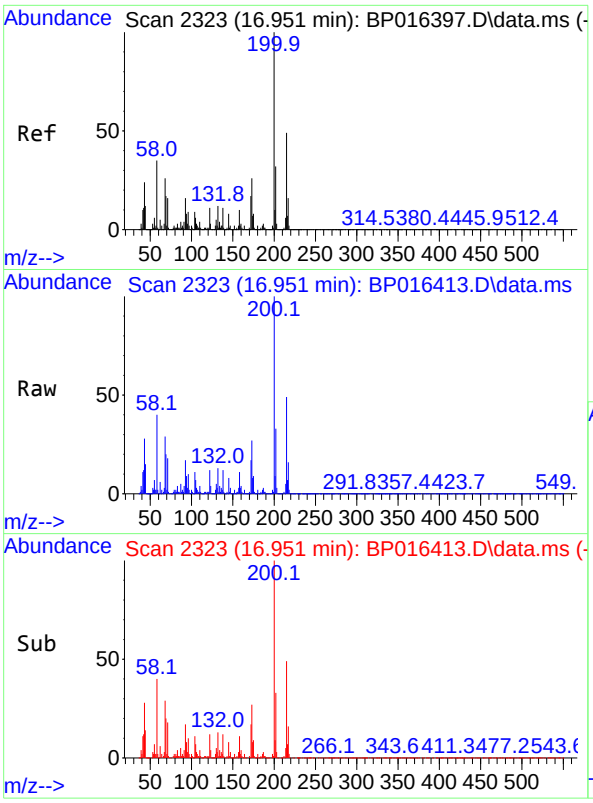


#68
Hexachlorobenzene
Concen: 47.176 ng
RT: 16.757 min Scan# 2290
Delta R.T. -0.000 min
Lab File: BP016413.D
Acq: 28 Jul 2023 09:12

Tgt Ion:284 Resp: 1078520

Ion	Ratio	Lower	Upper
284	100		
142	35.7	25.2	37.8
249	31.4	26.0	39.0

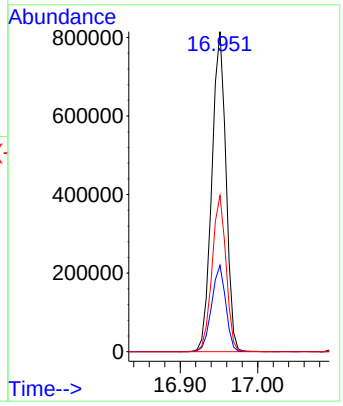




#69
Atrazine
Concen: 60.850 ng
RT: 16.951 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP016413.D
Acq: 28 Jul 2023 09:12

Tgt Ion:200 Resp: 103254

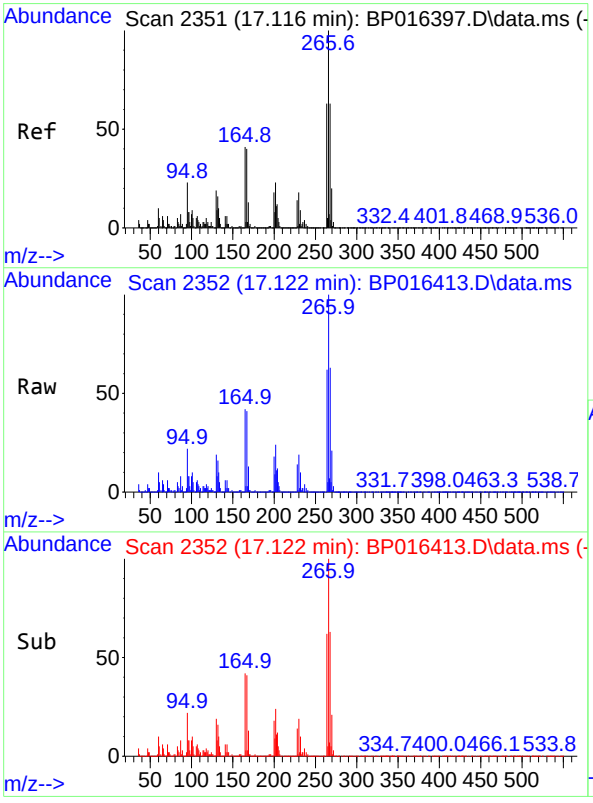
Ion	Ratio	Lower	Upper
200	100		
173	27.0	5.8	45.8
215	48.8	29.2	69.2



Instrument :
BNA_P
ClientSampleId :
PB154218BS

Manual Integrations
APPROVED

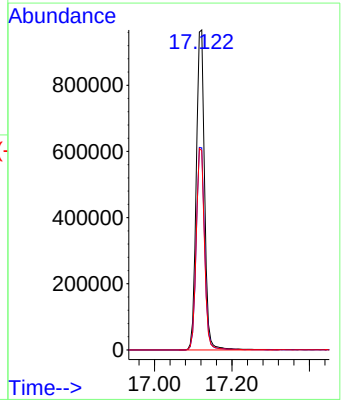
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

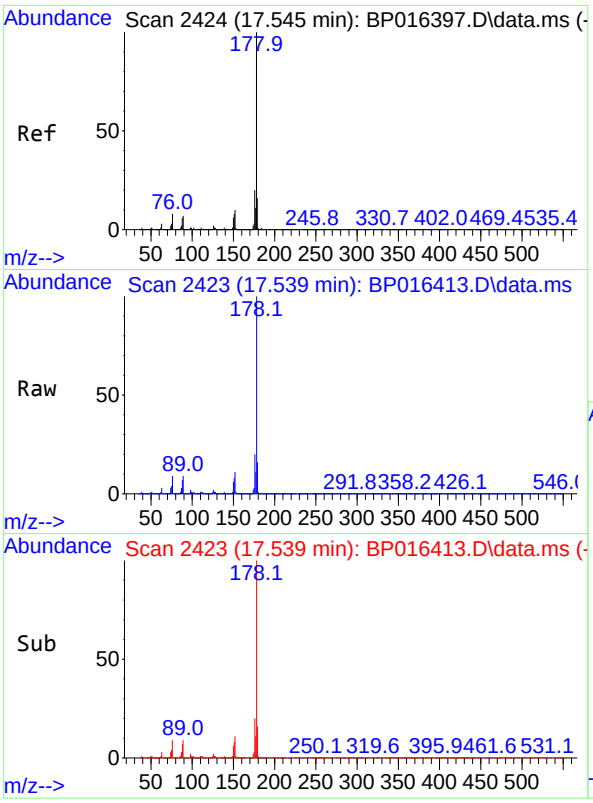


#70
Pentachlorophenol
Concen: 90.714 ng
RT: 17.122 min Scan# 2352
Delta R.T. 0.006 min
Lab File: BP016413.D
Acq: 28 Jul 2023 09:12

Tgt Ion:266 Resp: 1435150

Ion	Ratio	Lower	Upper
266	100		
268	63.1	53.9	80.9
264	62.3	54.9	82.3

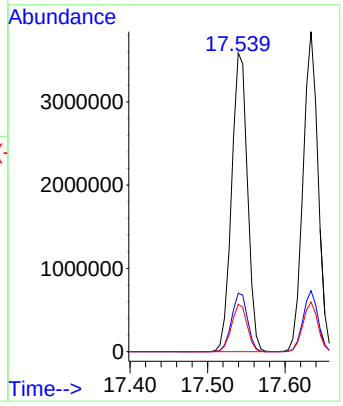




#71
Phenanthrene
Concen: 49.770 ng
RT: 17.539 min Scan# 24
Delta R.T. -0.006 min
Lab File: BP016413.D
Acq: 28 Jul 2023 09:12

Tgt Ion:178 Resp: 511654

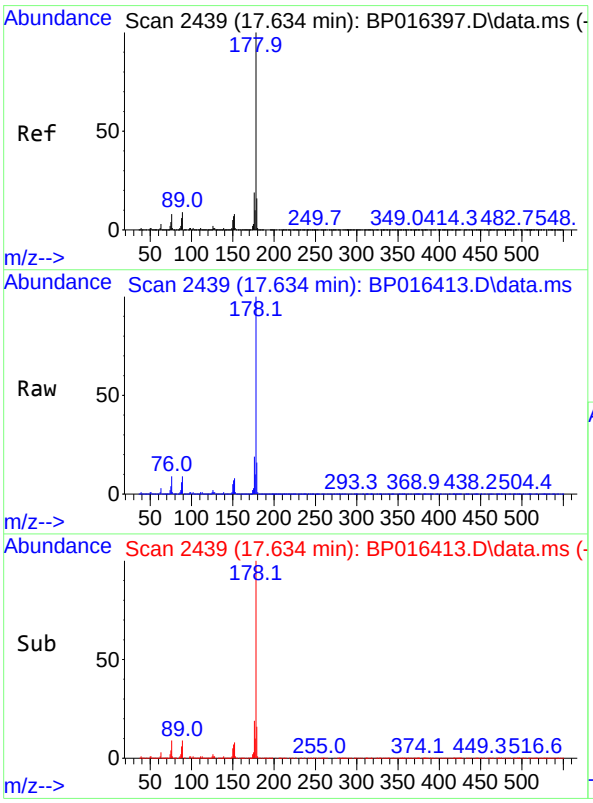
Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.8	23.8
179	15.9	12.4	18.6



Instrument :
BNA_P
ClientSampleId :
PB154218BS

Manual Integrations
APPROVED

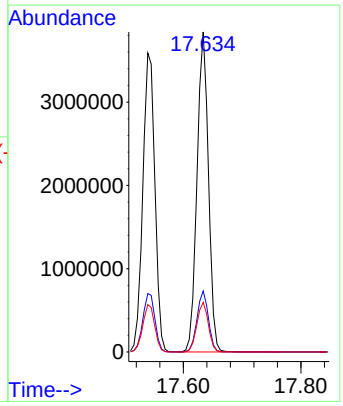
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

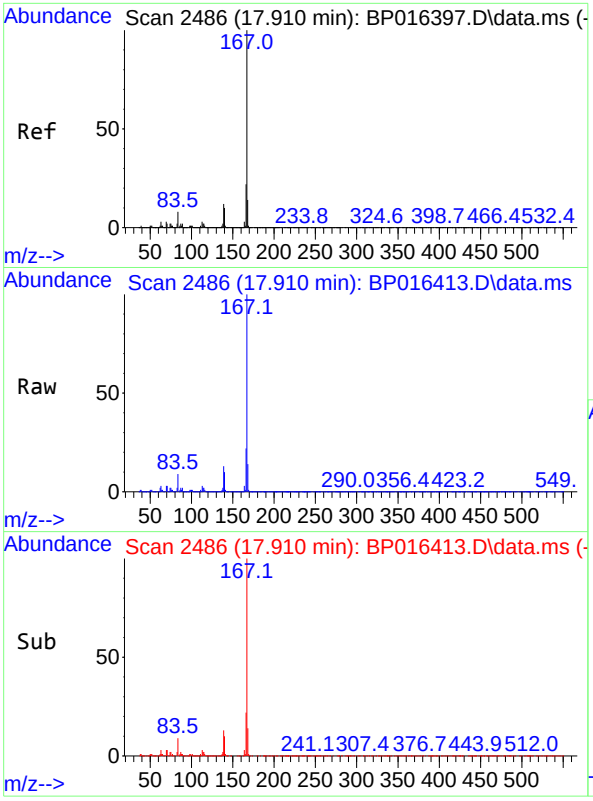


#72
Anthracene
Concen: 50.037 ng
RT: 17.634 min Scan# 2439
Delta R.T. -0.000 min
Lab File: BP016413.D
Acq: 28 Jul 2023 09:12

Tgt Ion:178 Resp: 5172465

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.2	22.8
179	15.5	12.6	19.0

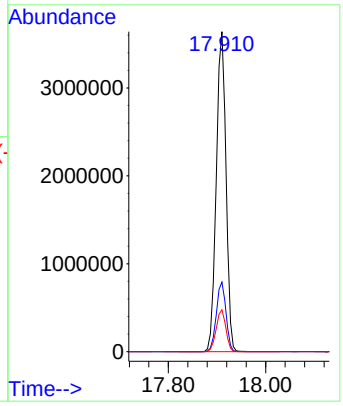




#73
Carbazole
Concen: 51.700 ng
RT: 17.910 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP016413.D
Acq: 28 Jul 2023 09:12

Tgt Ion:167 Resp: 501055

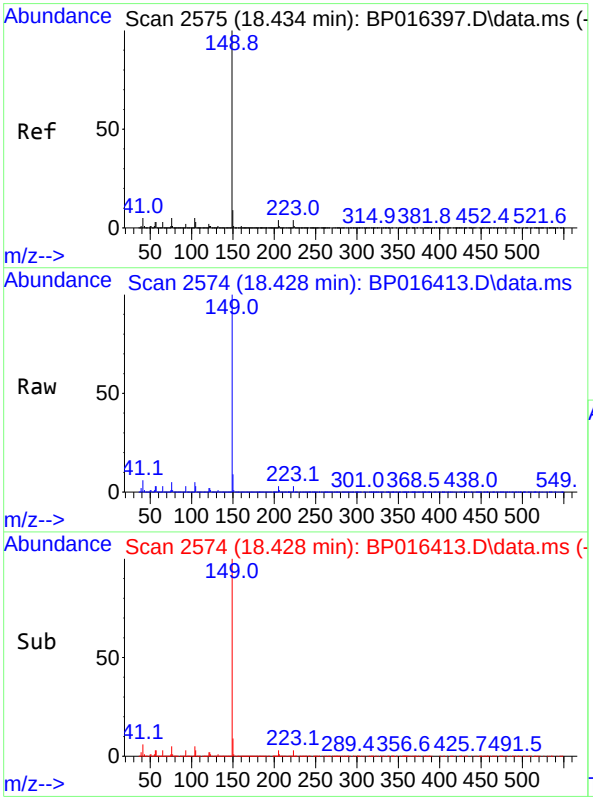
Ion	Ratio	Lower	Upper
167	100		
166	21.7	17.2	25.8
139	13.1	9.9	14.9



Instrument :
BNA_P
ClientSampleId :
PB154218BS

Manual Integrations
APPROVED

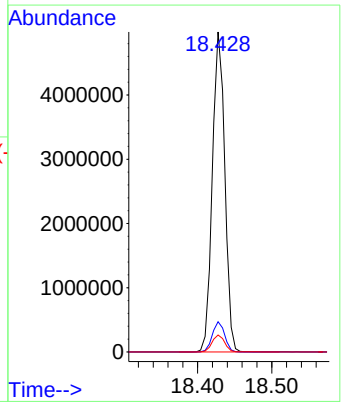
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

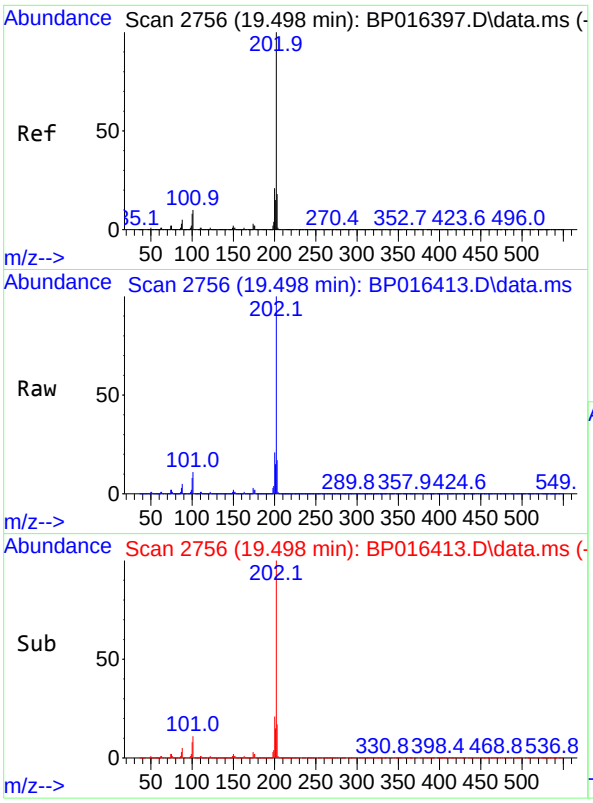


#74
Di-n-butylphthalate
Concen: 51.729 ng
RT: 18.428 min Scan# 2574
Delta R.T. -0.006 min
Lab File: BP016413.D
Acq: 28 Jul 2023 09:12

Tgt Ion:149 Resp: 5800118

Ion	Ratio	Lower	Upper
149	100		
150	9.4	7.4	11.2
104	5.3	3.8	5.8





#75
Fluoranthene
Concen: 48.930 ng
RT: 19.498 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP016413.D
Acq: 28 Jul 2023 09:12

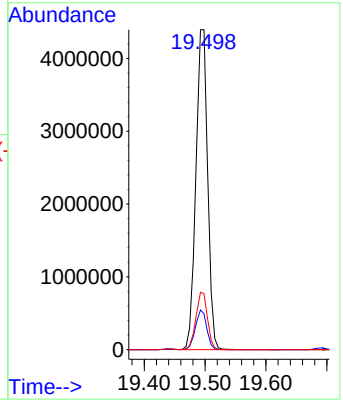
Tgt Ion:202 Resp: 589575

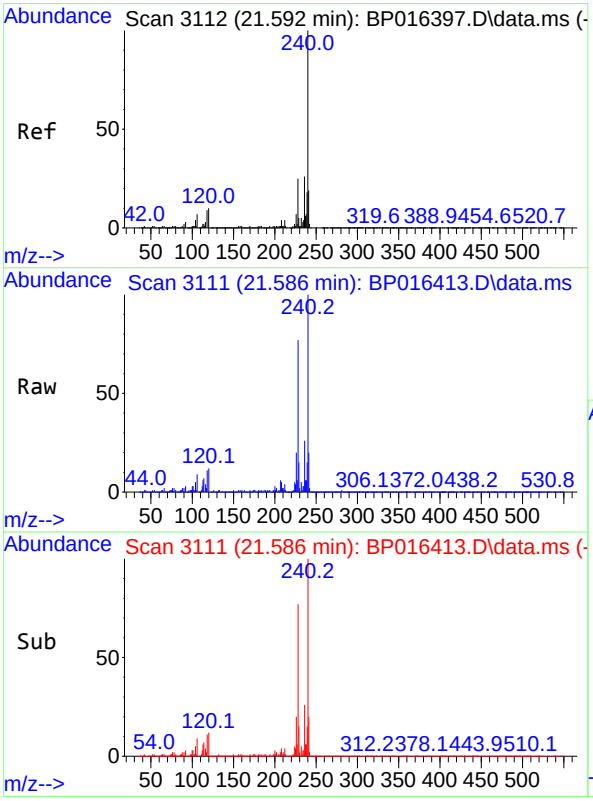
Ion	Ratio	Lower	Upper
202	100		
101	11.2	0.0	30.2
203	17.4	0.0	37.9

Instrument :
BNA_P
ClientSampleId :
PB154218BS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

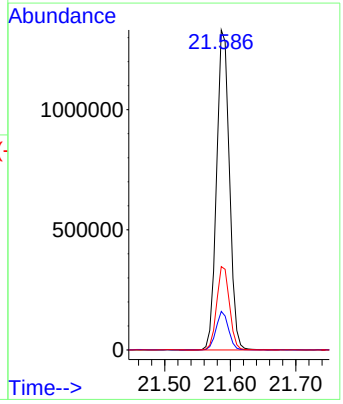


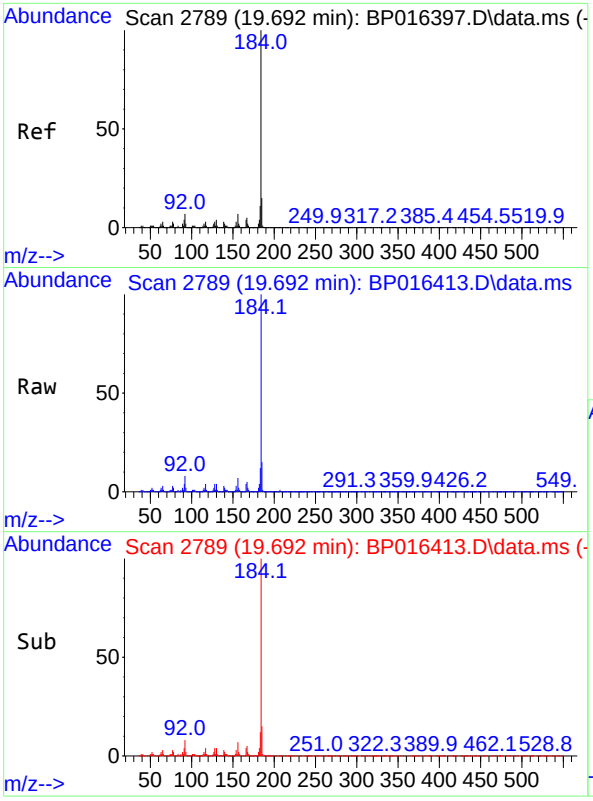


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.586 min Scan# 3111
Delta R.T. -0.006 min
Lab File: BP016413.D
Acq: 28 Jul 2023 09:12

Tgt Ion:240 Resp: 1800693

Ion	Ratio	Lower	Upper
240	100		
120	12.0	7.9	11.9#
236	26.1	21.1	31.7

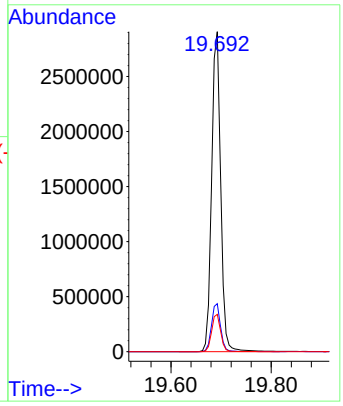




#77
Benzidine
Concen: 116.422 ng
RT: 19.692 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP016413.D
Acq: 28 Jul 2023 09:12

Tgt Ion:184 Resp: 363468

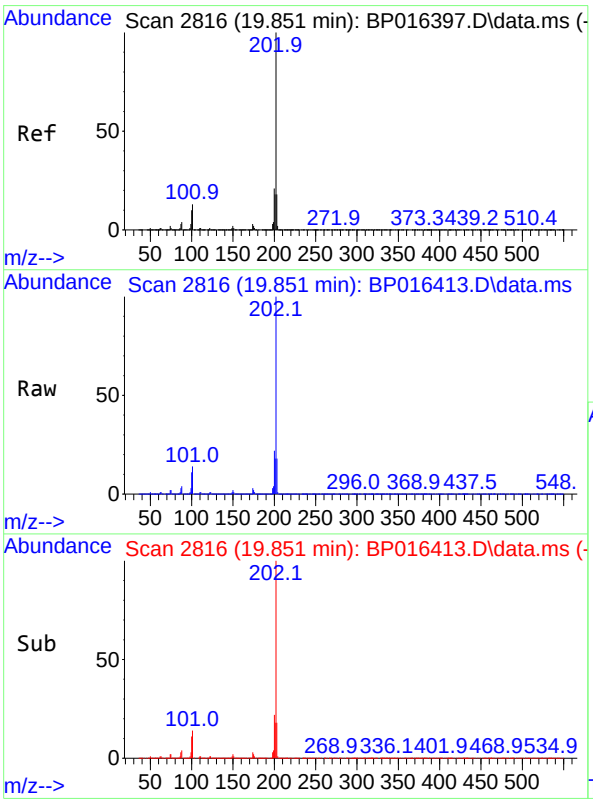
Ion	Ratio	Lower	Upper
184	100		
185	15.0	12.0	18.0
183	11.6	9.2	13.8



Instrument :
BNA_P
ClientSampleId :
PB154218BS

Manual Integrations
APPROVED

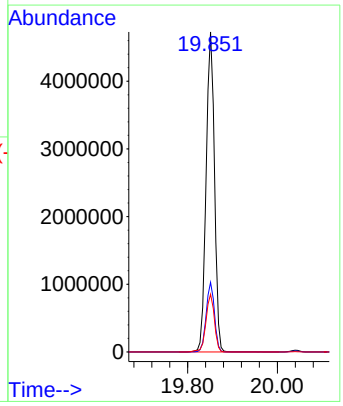
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

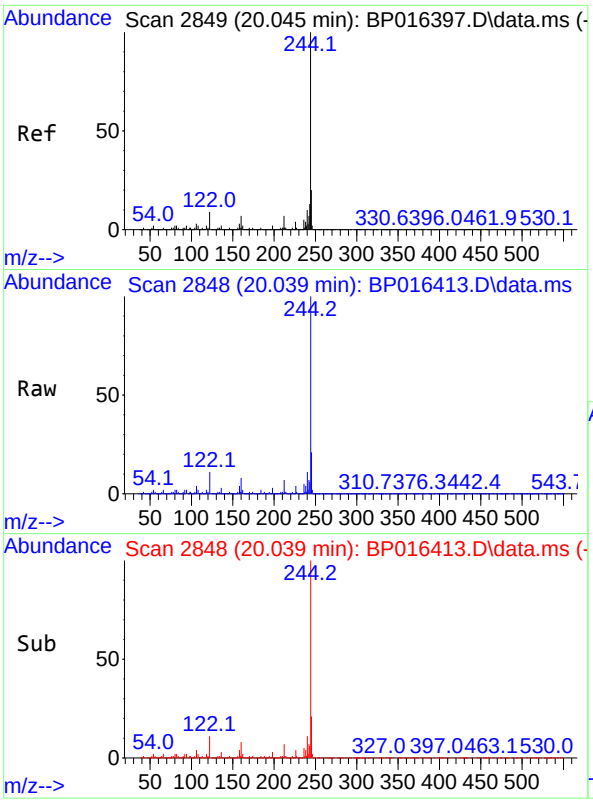


#78
Pyrene
Concen: 50.591 ng
RT: 19.851 min Scan# 2816
Delta R.T. -0.000 min
Lab File: BP016413.D
Acq: 28 Jul 2023 09:12

Tgt Ion:202 Resp: 6106780

Ion	Ratio	Lower	Upper
202	100		
200	21.7	17.1	25.7
203	18.1	14.4	21.6

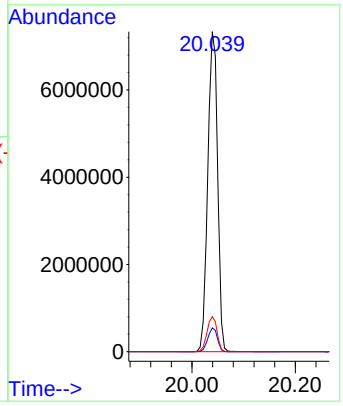




#79
Terphenyl-d14
Concen: 112.937 ng
RT: 20.039 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP016413.D
Acq: 28 Jul 2023 09:12

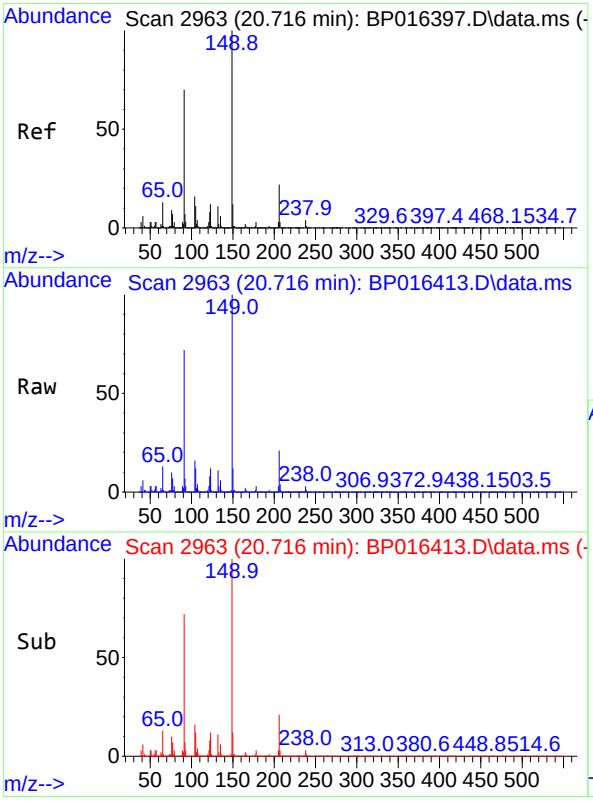
Tgt Ion:244 Resp: 962706

Ion	Ratio	Lower	Upper
244	100		
212	7.4	5.6	8.4
122	11.0	7.4	11.2



Instrument :
BNA_P
ClientSampleId :
PB154218BS

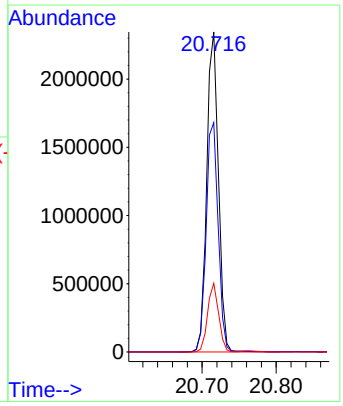
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

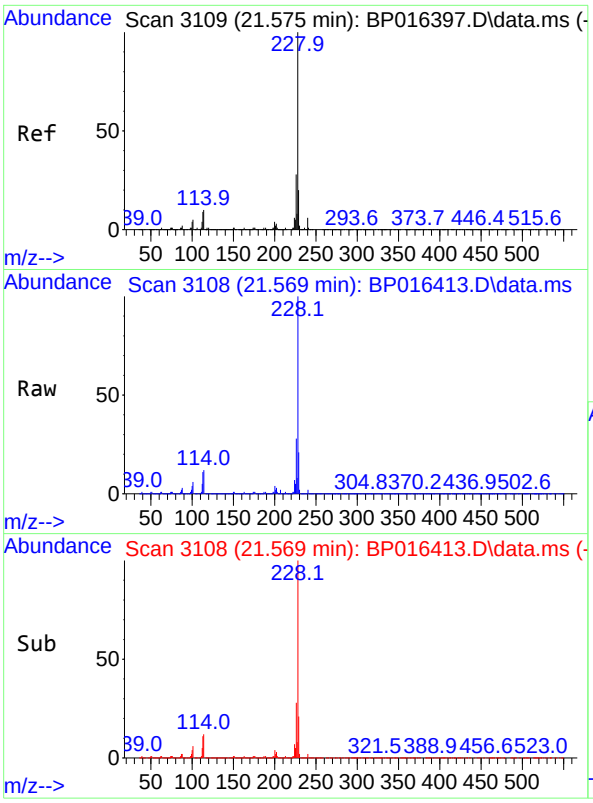


#80
Butylbenzylphthalate
Concen: 54.102 ng
RT: 20.716 min Scan# 2963
Delta R.T. -0.000 min
Lab File: BP016413.D
Acq: 28 Jul 2023 09:12

Tgt Ion:149 Resp: 2565593

Ion	Ratio	Lower	Upper
149	100		
91	71.6	56.1	84.1
206	21.5	17.8	26.6

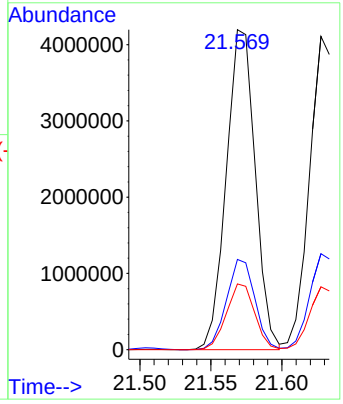




#81
Benzo(a)anthracene
Concen: 49.363 ng
RT: 21.569 min Scan# 3
Delta R.T. -0.006 min
Lab File: BP016413.D
Acq: 28 Jul 2023 09:12

Tgt Ion:228 Resp: 596398

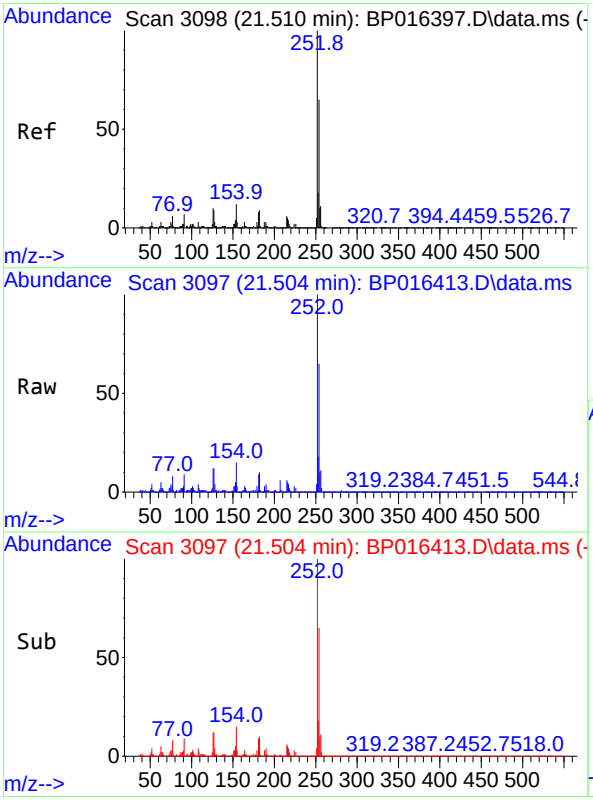
Ion	Ratio	Lower	Upper
228	100		
226	28.2	22.4	33.6
229	20.6	16.2	24.4



Instrument :
BNA_P
ClientSampleId :
PB154218BS

Manual Integrations
APPROVED

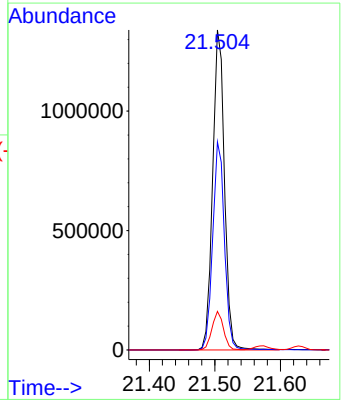
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

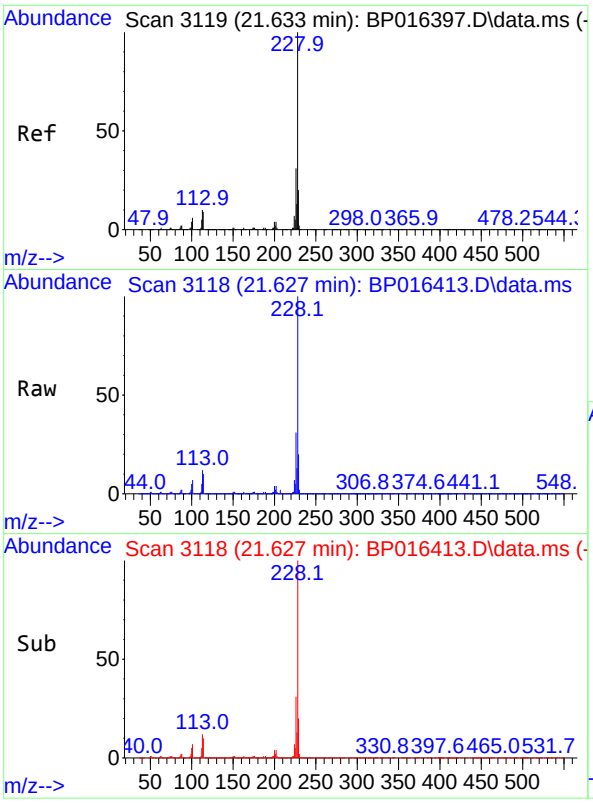


#82
3,3'-Dichlorobenzidine
Concen: 42.246 ng
RT: 21.504 min Scan# 3097
Delta R.T. -0.006 min
Lab File: BP016413.D
Acq: 28 Jul 2023 09:12

Tgt Ion:252 Resp: 1675491

Ion	Ratio	Lower	Upper
252	100		
254	65.0	52.2	78.2
126	12.1	7.8	11.6#

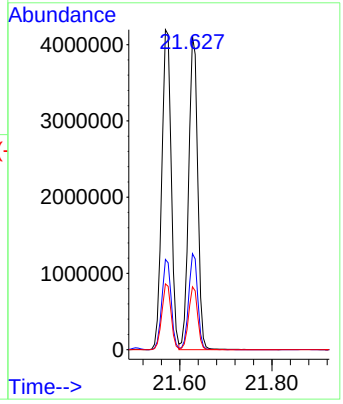




#83
Chrysene
Concen: 48.265 ng
RT: 21.627 min Scan# 3
Delta R.T. -0.006 min
Lab File: BP016413.D
Acq: 28 Jul 2023 09:12

Tgt Ion:228 Resp: 556841

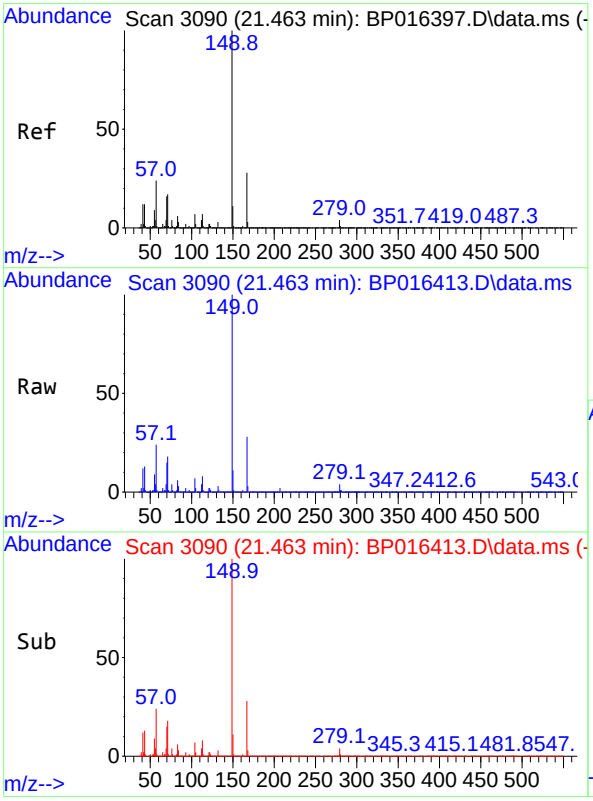
Ion	Ratio	Lower	Upper
228	100		
226	30.7	24.6	37.0
229	20.1	16.0	24.0



Instrument :
BNA_P
ClientSampleId :
PB154218BS

Manual Integrations
APPROVED

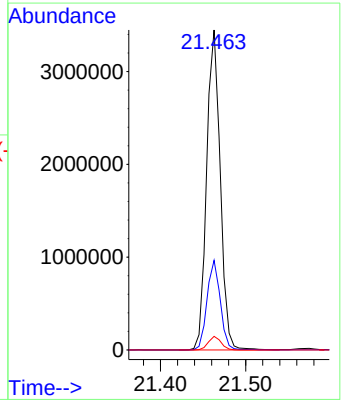
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

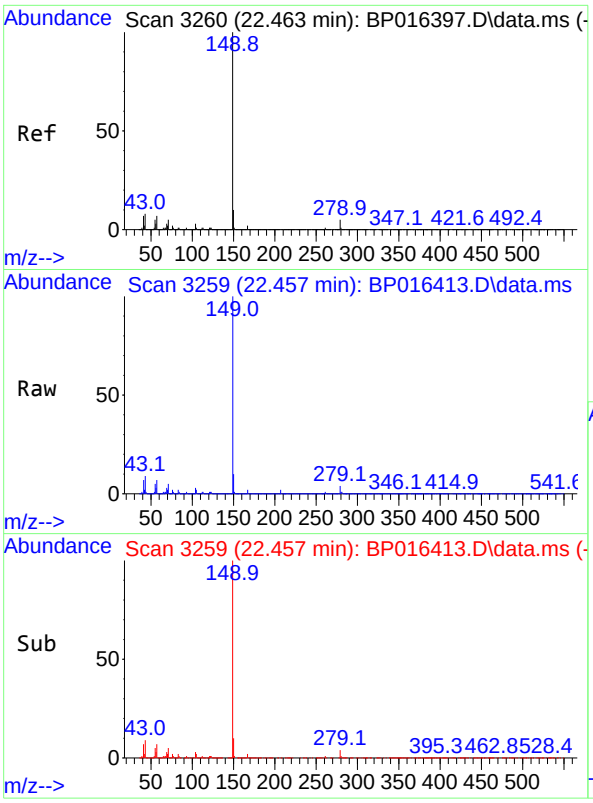


#84
Bis(2-ethylhexyl)phthalate
Concen: 53.548 ng
RT: 21.463 min Scan# 3090
Delta R.T. -0.000 min
Lab File: BP016413.D
Acq: 28 Jul 2023 09:12

Tgt Ion:149 Resp: 3812490

Ion	Ratio	Lower	Upper
149	100		
167	28.0	22.5	33.7
279	4.2	3.6	5.4

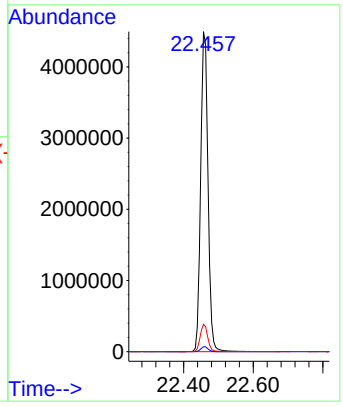




#85
Di-n-octyl phthalate
Concen: 54.662 ng
RT: 22.457 min Scan# 3
Delta R.T. -0.006 min
Lab File: BP016413.D
Acq: 28 Jul 2023 09:12

Tgt Ion:149 Resp: 654531

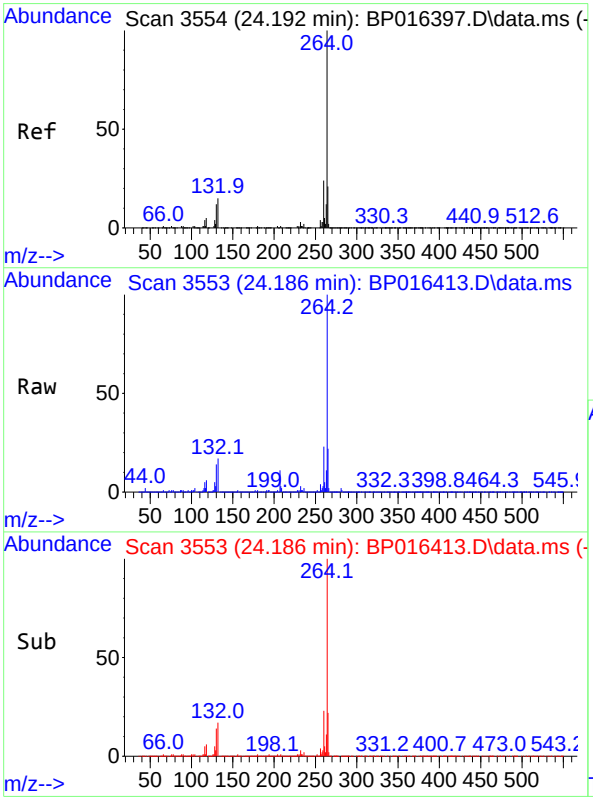
Ion	Ratio	Lower	Upper
149	100		
167	1.5	1.3	1.9
43	8.8	6.6	9.8



Instrument :
BNA_P
ClientSampleId :
PB154218BS

Manual Integrations
APPROVED

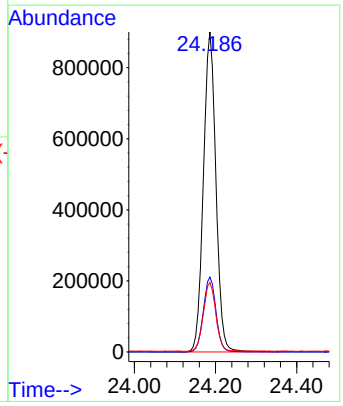
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

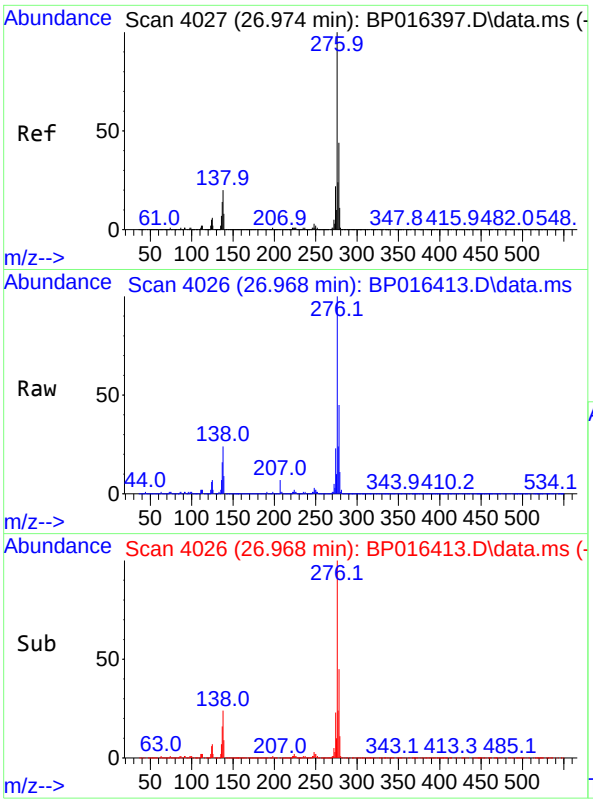


#86
Perylene-d12
Concen: 20.000 ng
RT: 24.186 min Scan# 3553
Delta R.T. -0.006 min
Lab File: BP016413.D
Acq: 28 Jul 2023 09:12

Tgt Ion:264 Resp: 1921990

Ion	Ratio	Lower	Upper
264	100		
260	23.4	19.3	28.9
265	21.7	17.4	26.0

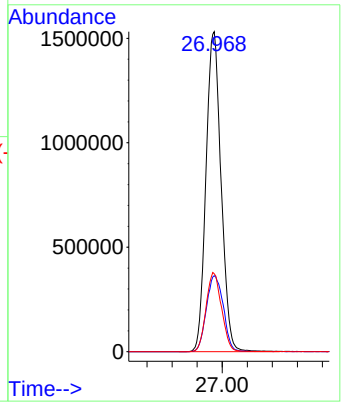




#87
Indeno(1,2,3-cd)pyrene
Concen: 49.325 ng
RT: 26.968 min Scan# 4
Delta R.T. -0.006 min
Lab File: BP016413.D
Acq: 28 Jul 2023 09:12

Tgt Ion:276 Resp: 639141

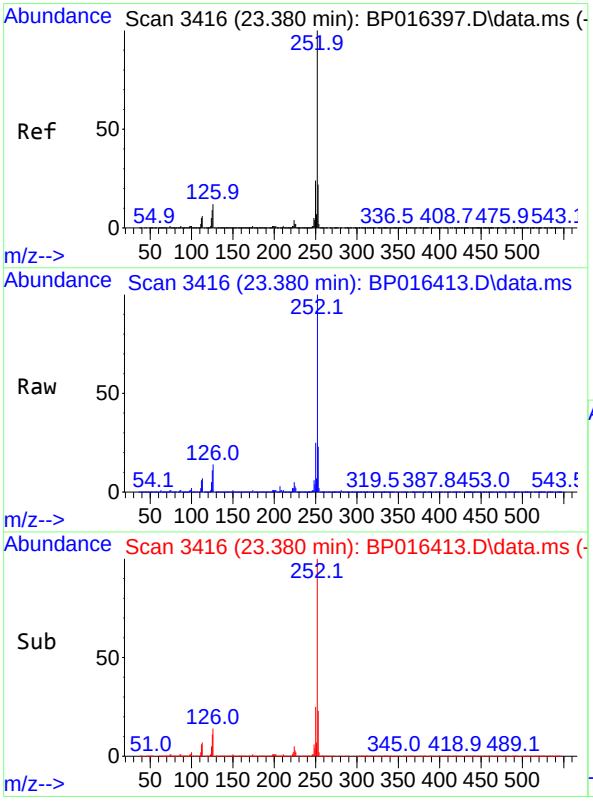
Ion	Ratio	Lower	Upper
276	100		
138	26.7	18.4	27.6
277	25.4	20.4	30.6



Instrument :
BNA_P
ClientSampleId :
PB154218BS

Manual Integrations
APPROVED

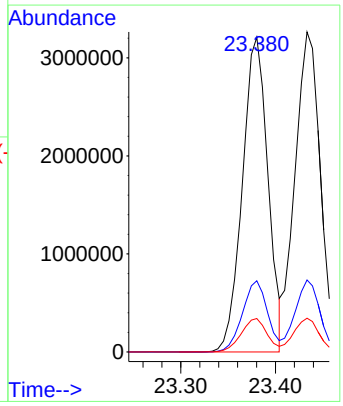
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

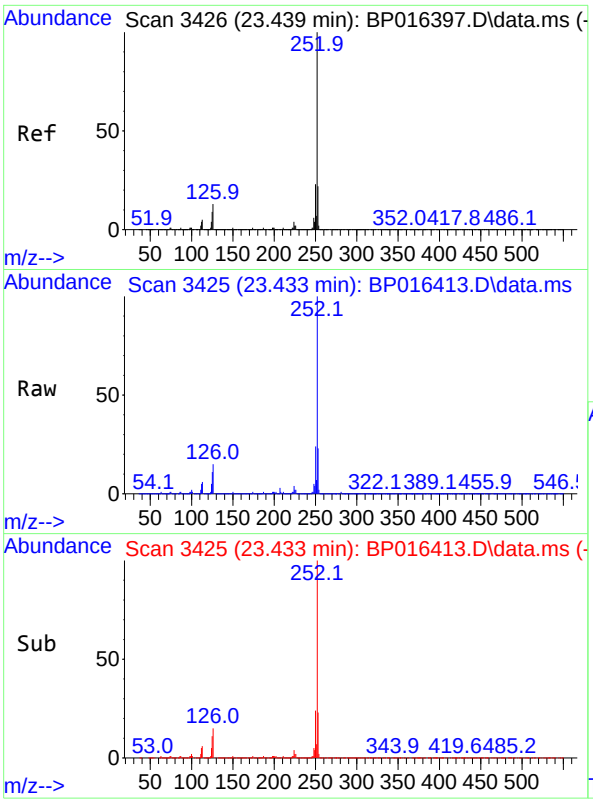


#88
Benzo(b)fluoranthene
Concen: 54.048 ng
RT: 23.380 min Scan# 3416
Delta R.T. -0.000 min
Lab File: BP016413.D
Acq: 28 Jul 2023 09:12

Tgt Ion:252 Resp: 6021553

Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.8	26.8
125	10.6	7.4	11.2

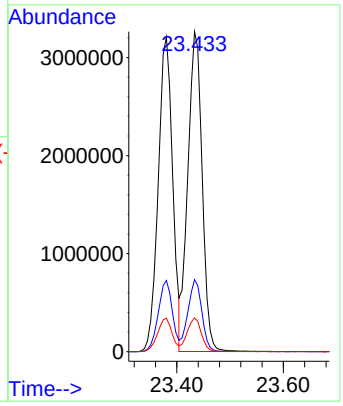




#89
Benzo(k)fluoranthene
Concen: 53.863 ng
RT: 23.433 min Scan# 34
Delta R.T. -0.006 min
Lab File: BP016413.D
Acq: 28 Jul 2023 09:12

Tgt Ion:252 Resp: 610308

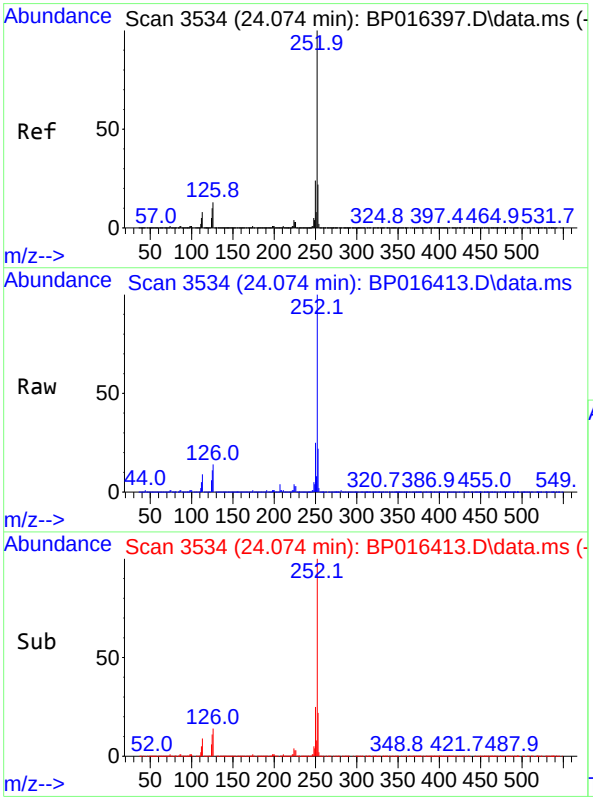
Ion	Ratio	Lower	Upper
252	100		
253	22.5	17.8	26.8
125	10.5	7.1	10.7



Instrument :
BNA_P
ClientSampleId :
PB154218BS

Manual Integrations
APPROVED

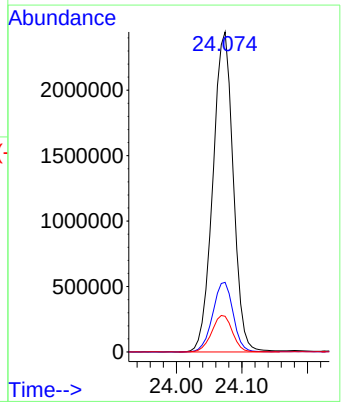
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

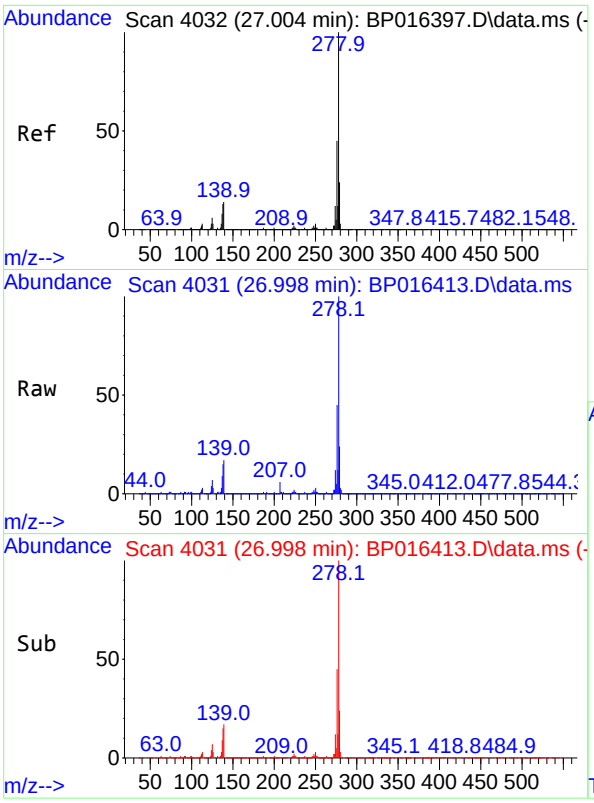


#90
Benzo(a)pyrene
Concen: 48.742 ng
RT: 24.074 min Scan# 3534
Delta R.T. -0.000 min
Lab File: BP016413.D
Acq: 28 Jul 2023 09:12

Tgt Ion:252 Resp: 5259975

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.8	26.6
125	11.2	8.3	12.5

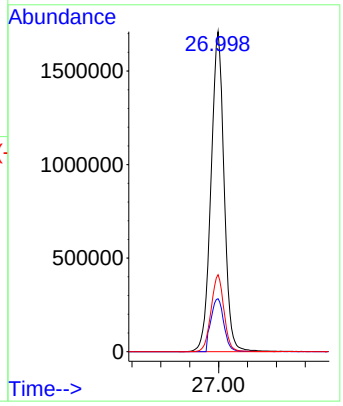




#91
Dibenzo(a,h)anthracene
Concen: 49.842 ng
RT: 26.998 min Scan# 4
Delta R.T. -0.006 min
Lab File: BP016413.D
Acq: 28 Jul 2023 09:12

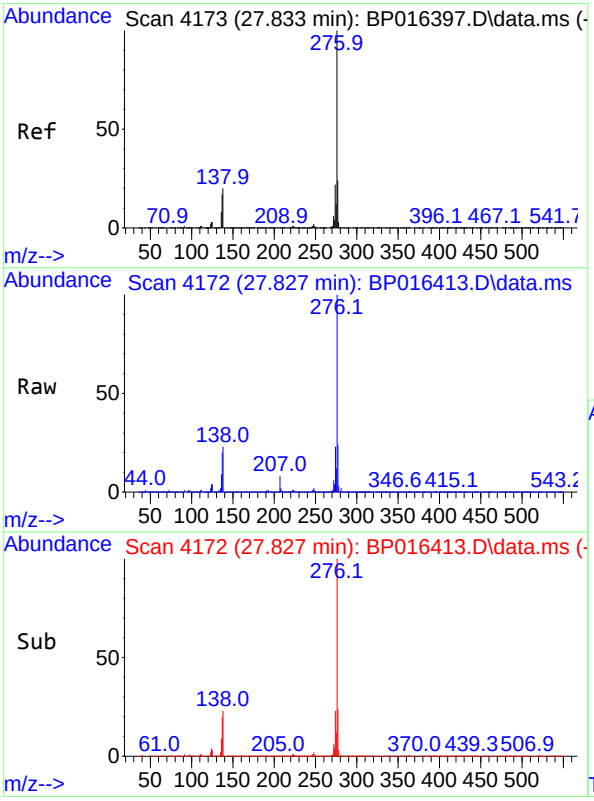
Tgt Ion:278 Resp: 538597

Ion	Ratio	Lower	Upper
278	100		
139	16.5	11.6	17.4
279	24.0	19.0	28.6



Instrument :
BNA_P
ClientSampleId :
PB154218BS

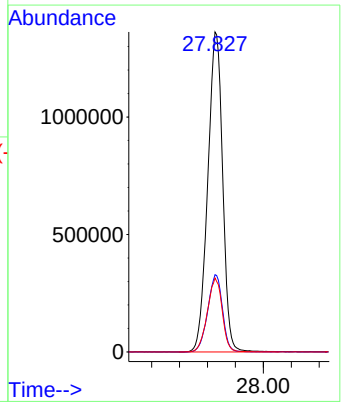
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023



#92
Benzo(g,h,i)perylene
Concen: 48.277 ng
RT: 27.827 min Scan# 4172
Delta R.T. -0.006 min
Lab File: BP016413.D
Acq: 28 Jul 2023 09:12

Tgt Ion:276 Resp: 5027325

Ion	Ratio	Lower	Upper
276	100		
277	24.2	19.2	28.8
138	23.1	16.1	24.1



CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	
Project:	Mackenna Parcels	Date Received:	
Client Sample ID:	PB154258BS	SDG No.:	O3645
Lab Sample ID:	PB154258BS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF134357.D	1	07/18/23 09:45	07/19/23 14:07	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	190	J	150	330	ug/Kg
108-95-2	Phenol	1400		74.3	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1500		89.7	170	ug/Kg
95-57-8	2-Chlorophenol	1500		71.9	170	ug/Kg
95-48-7	2-Methylphenol	1400		110	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1200		100	170	ug/Kg
98-86-2	Acetophenone	1500		86.6	170	ug/Kg
65794-96-9	3+4-Methylphenols	1500		110	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1500		58.9	79.9	ug/Kg
67-72-1	Hexachloroethane	1600		73.5	170	ug/Kg
98-95-3	Nitrobenzene	1400		75.1	170	ug/Kg
78-59-1	Isophorone	1400		68.0	170	ug/Kg
88-75-5	2-Nitrophenol	1400		95.0	170	ug/Kg
105-67-9	2,4-Dimethylphenol	1400		99.5	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1300		110	170	ug/Kg
120-83-2	2,4-Dichlorophenol	1400		78.0	170	ug/Kg
91-20-3	Naphthalene	1400		81.3	170	ug/Kg
106-47-8	4-Chloroaniline	350		100	170	ug/Kg
87-68-3	Hexachlorobutadiene	1600		83.9	170	ug/Kg
105-60-2	Caprolactam	1400		120	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1400		82.4	170	ug/Kg
91-57-6	2-Methylnaphthalene	1300		94.8	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	2300		210	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1400		77.0	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1300		87.8	170	ug/Kg
92-52-4	1,1-Biphenyl	1400		91.2	170	ug/Kg
91-58-7	2-Chloronaphthalene	1400		84.5	170	ug/Kg
88-74-4	2-Nitroaniline	1300		99.2	170	ug/Kg
131-11-3	Dimethylphthalate	1400		88.8	170	ug/Kg
208-96-8	Acenaphthylene	1300		88.3	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	1400		89.9	170	ug/Kg

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	
Project:	Mackenna Parcels	Date Received:	
Client Sample ID:	PB154258BS	SDG No.:	O3645
Lab Sample ID:	PB154258BS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF134357.D	1	07/18/23 09:45	07/19/23 14:07	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
99-09-2	3-Nitroaniline	800		93.3	170	ug/Kg
83-32-9	Acenaphthene	1400		80.2	170	ug/Kg
51-28-5	2,4-Dinitrophenol	2700	E	180	330	ug/Kg
100-02-7	4-Nitrophenol	2200		110	330	ug/Kg
132-64-9	Dibenzofuran	1400		76.8	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	1400		99.8	170	ug/Kg
84-66-2	Diethylphthalate	1400		85.8	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1400		90.3	170	ug/Kg
86-73-7	Fluorene	1400		84.7	170	ug/Kg
100-01-6	4-Nitroaniline	1100		100	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1600		87.7	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1400		93.2	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1500		97.3	170	ug/Kg
118-74-1	Hexachlorobenzene	1600		98.7	170	ug/Kg
1912-24-9	Atrazine	970		95.3	170	ug/Kg
87-86-5	Pentachlorophenol	2300		110	330	ug/Kg
85-01-8	Phenanthrene	1400		92.6	170	ug/Kg
120-12-7	Anthracene	1400		100	170	ug/Kg
86-74-8	Carbazole	1500		84.8	170	ug/Kg
84-74-2	Di-n-butylphthalate	1500		100	170	ug/Kg
206-44-0	Fluoranthene	1500		94.3	170	ug/Kg
129-00-0	Pyrene	1200		83.6	170	ug/Kg
85-68-7	Butylbenzylphthalate	1400		100	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1000		160	330	ug/Kg
56-55-3	Benzo(a)anthracene	1400		83.8	170	ug/Kg
218-01-9	Chrysene	1400		86.7	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1600		110	170	ug/Kg
117-84-0	Di-n-octyl phthalate	1600		120	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	1800		80.2	170	ug/Kg
207-08-9	Benzo(k)fluoranthene	1600		88.0	170	ug/Kg
50-32-8	Benzo(a)pyrene	1500		94.2	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1600		110	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1600		96.4	170	ug/Kg

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	
Project:	Mackenna Parcels	Date Received:	
Client Sample ID:	PB154258BS	SDG No.:	O3645
Lab Sample ID:	PB154258BS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF134357.D	1	07/18/23 09:45	07/19/23 14:07	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
191-24-2	Benzo(g,h,i)perylene	1500		92.4	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1500		89.3	170	ug/Kg
123-91-1	1,4-Dioxane	1300		120	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1400		82.8	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	120		18 - 112	80%	SPK: 150
13127-88-3	Phenol-d6	116		21 - 104	77%	SPK: 150
4165-60-0	Nitrobenzene-d5	80.7		27 - 109	81%	SPK: 100
321-60-8	2-Fluorobiphenyl	83.8		30 - 103	84%	SPK: 100
118-79-6	2,4,6-Tribromophenol	127		10 - 121	85%	SPK: 150
1718-51-0	Terphenyl-d14	80.1		21 - 107	80%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	73500	6.84			
1146-65-2	Naphthalene-d8	287000	8.122			
15067-26-2	Acenaphthene-d10	148000	9.881			
1517-22-2	Phenanthrene-d10	284000	11.375			
1719-03-5	Chrysene-d12	207000	14.039			
1520-96-3	Perylene-d12	163000	15.545			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF071923\
Data File : BF134357.D
Acq On : 19 Jul 2023 14:07
Operator : CG\JU
Sample : PB154258BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 19 14:38:59 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF062623.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 14 22:51:27 2023
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB154258BS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 07/20/2023
Supervised By :mohammad ahmed 07/20/2023

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.840	152	73456	20.000	ng		0.00
21) Naphthalene-d8	8.122	136	287399	20.000	ng	#	0.00
39) Acenaphthene-d10	9.881	164	147548	20.000	ng		0.00
64) Phenanthrene-d10	11.375	188	283533	20.000	ng		0.00
76) Chrysene-d12	14.039	240	207181	20.000	ng		0.00
86) Perylene-d12	15.545	264	162647	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.493	112	528916	120.447	ng		0.02
7) Phenol-d6	6.493	99	626305	115.974	ng		0.00
23) Nitrobenzene-d5	7.410	82	430397	80.726	ng		0.00
42) 2,4,6-Tribromophenol	10.681	330	234611	126.820	ng		0.00
45) 2-Fluorobiphenyl	9.198	172	850710	83.826	ng		0.00
79) Terphenyl-d14	12.974	244	1030563	80.056	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.728	88	69750	38.522	ng		98
3) Pyridine	3.510	79	129575	27.474	ng		95
4) n-Nitrosodimethylamine	3.469	42	108860	40.414	ng		97
6) Aniline	6.504	93	121487	18.487	ng	#	1
8) 2-Chlorophenol	6.628	128	202366	45.397	ng		99
9) Benzaldehyde	6.393	77	23387	5.621	ng		92
10) Phenol	6.504	94	238883	42.071	ng		84
11) bis(2-Chloroethyl)ether	6.581	93	183540	43.905	ng		96
12) 1,3-Dichlorobenzene	6.781	146	216197	45.492	ng		98
13) 1,4-Dichlorobenzene	6.857	146	220399	45.915	ng		100
14) 1,2-Dichlorobenzene	7.004	146	208930	46.475	ng		98
15) Benzyl Alcohol	6.987	79	190464	45.749	ng		95
16) 2,2'-oxybis(1-Chloropr...	7.116	45	263979	35.694	ng		76
17) 2-Methylphenol	7.104	107	165921	41.566	ng	#	91
18) Hexachloroethane	7.345	117	84571	47.516	ng		98
19) n-Nitroso-di-n-propyla...	7.257	70	149455	43.640	ng		97
20) 3+4-Methylphenols	7.257	107	212227	43.824	ng	#	84
22) Acetophenone	7.251	105	303978	46.507	ng		94
24) Nitrobenzene	7.428	77	224942	41.751	ng		95
25) Isophorone	7.663	82	395026	40.768	ng		98
26) 2-Nitrophenol	7.740	139	110940	42.924	ng		93
27) 2,4-Dimethylphenol	7.781	122	176237	43.078	ng		93
28) bis(2-Chloroethoxy)met...	7.869	93	224824	40.071	ng		99
29) 2,4-Dichlorophenol	7.987	162	173340	42.728	ng		98
30) 1,2,4-Trichlorobenzene	8.063	180	186054	44.447	ng		99
31) Naphthalene	8.145	128	581120	41.861	ng		99
32) Benzoic acid	7.928	122	132878	43.344	ng		90
33) 4-Chloroaniline	8.198	127	62541	10.532	ng		95
34) Hexachlorobutadiene	8.251	225	124318	47.080	ng		98
35) Caprolactam	8.575	113	56031m	41.947	ng		
36) 4-Chloro-3-methylphenol	8.687	107	196886	43.201	ng		97
37) 2-Methylnaphthalene	8.834	142	397560	40.497	ng		100
38) 1-Methylnaphthalene	8.934	142	367427	40.260	ng		99
40) 1,2,4,5-Tetrachloroben...	8.998	216	198841	45.487	ng		98
41) Hexachlorocyclopentadiene	8.981	237	146096	70.447	ng		98
43) 2,4,6-Trichlorophenol	9.116	196	125980	42.335	ng		99

Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF071923\
Data File : BF134357.D
Acq On : 19 Jul 2023 14:07
Operator : CG\JU
Sample : PB154258BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 19 14:38:59 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF062623.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 14 22:51:27 2023
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB154258BS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 07/20/2023
Supervised By :mohammad ahmed 07/20/2023

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.169	196	132150	37.754	ng		95
46) 1,1'-Biphenyl	9.298	154	503444	42.536	ng		97
47) 2-Chloronaphthalene	9.328	162	371458	42.894	ng		97
48) 2-Nitroaniline	9.428	65	126504	40.083	ng		97
49) Acenaphthylene	9.739	152	596580	40.328	ng		99
50) Dimethylphthalate	9.604	163	440172	41.097	ng		99
51) 2,6-Dinitrotoluene	9.675	165	97145	42.111	ng		94
52) Acenaphthene	9.916	154	356039	41.478	ng		96
53) 3-Nitroaniline	9.839	138	66706	24.103	ng		95
54) 2,4-Dinitrophenol	9.963	184	107206	80.448	ng		95
55) Dibenzofuran	10.086	168	547834	40.837	ng		98
56) 4-Nitrophenol	10.022	139	126313	65.250	ng		94
57) 2,4-Dinitrotoluene	10.081	165	130723	42.909	ng	#	81
58) Fluorene	10.433	166	439165	42.079	ng		98
59) 2,3,4,6-Tetrachlorophenol	10.210	232	113266	41.023	ng		99
60) Diethylphthalate	10.304	149	459742	41.200	ng		98
61) 4-Chlorophenyl-phenyle...	10.422	204	211162	41.983	ng		96
62) 4-Nitroaniline	10.469	138	91041	32.642	ng		93
63) Azobenzene	10.586	77	410439	38.885	ng		99
65) 4,6-Dinitro-2-methylph...	10.498	198	74201	48.002	ng		98
66) n-Nitrosodiphenylamine	10.545	169	379025	41.840	ng		99
67) 4-Bromophenyl-phenylether	10.916	248	131598	43.668	ng		99
68) Hexachlorobenzene	10.980	284	156491	48.907	ng		97
69) Atrazine	11.075	200	73014	29.138	ng		98
70) Pentachlorophenol	11.180	266	132014	69.002	ng		99
71) Phenanthrene	11.404	178	616245	43.174	ng		98
72) Anthracene	11.451	178	630358	42.459	ng		99
73) Carbazole	11.610	167	602480	44.337	ng		99
74) Di-n-butylphthalate	11.939	149	709552	43.909	ng		100
75) Fluoranthene	12.598	202	684722	44.373	ng		98
77) Benzidine	12.722	184	61625	12.501	ng		98
78) Pyrene	12.827	202	706828	36.659	ng		100
80) Butylbenzylphthalate	13.445	149	297866	41.191	ng		99
81) Benzo(a)anthracene	14.027	228	604579	42.077	ng		99
82) 3,3'-Dichlorobenzidine	13.992	252	141520	31.088	ng		98
83) Chrysene	14.069	228	566461	40.704	ng		98
84) Bis(2-ethylhexyl)phtha...	14.010	149	389324	46.855	ng		98
85) Di-n-octyl phthalate	14.627	149	602208	49.324	ng		97
87) Indeno(1,2,3-cd)pyrene	17.104	276	526231	46.627	ng	#	94
88) Benzo(b)fluoranthene	15.098	252	515856	53.939	ng		98
89) Benzo(k)fluoranthene	15.133	252	479577m	49.251	ng		
90) Benzo(a)pyrene	15.480	252	422532	45.689	ng		98
91) Dibenzo(a,h)anthracene	17.115	278	442567	48.009	ng		97
92) Benzo(g,h,i)perylene	17.574	276	431817	45.424	ng		95

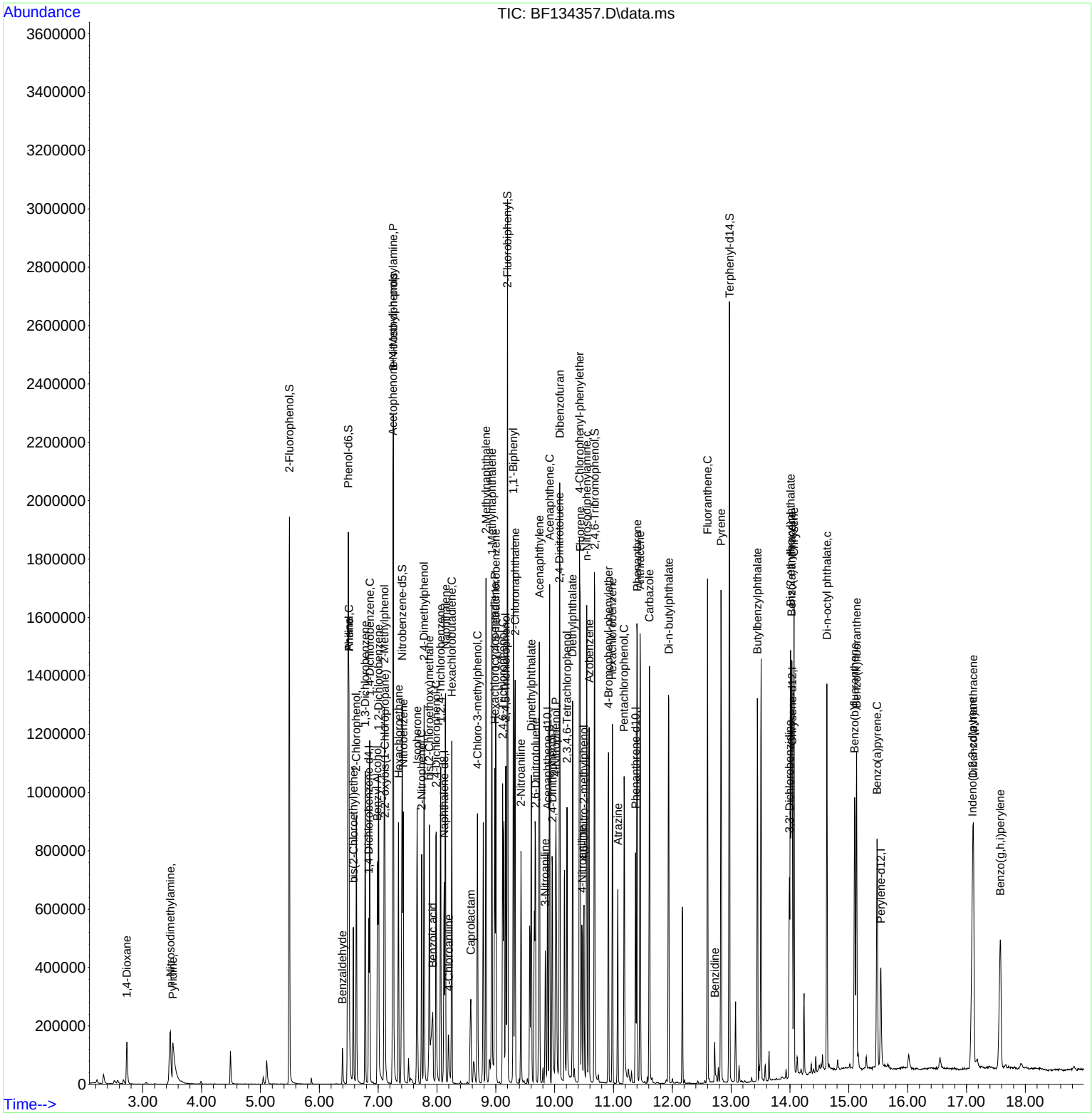
(#) = qualifier out of range (m) = manual integration (+) = signals summed

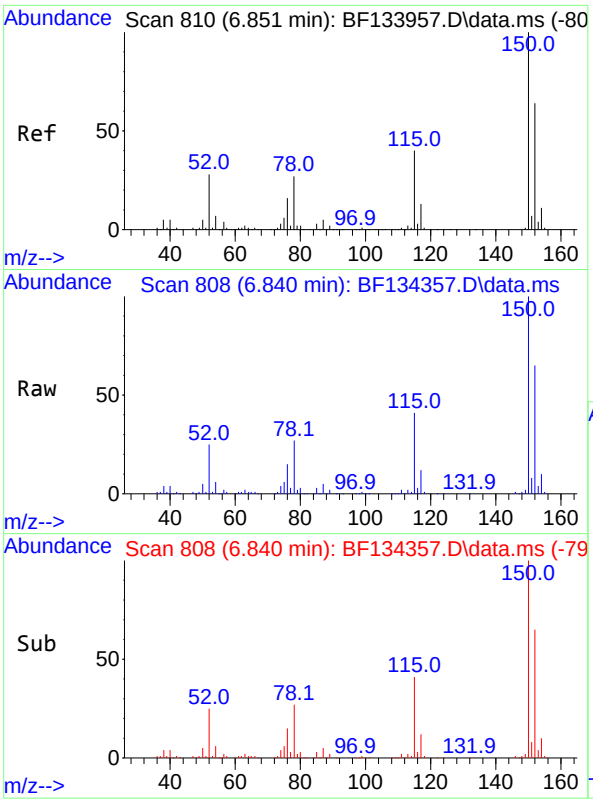
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF071923\
Data File : BF134357.D
Acq On : 19 Jul 2023 14:07
Operator : CG\JU
Sample : PB154258BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 19 14:38:59 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF062623.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 14 22:51:27 2023
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB154258BS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 07/20/2023
Supervised By :mohammad ahmed 07/20/2023

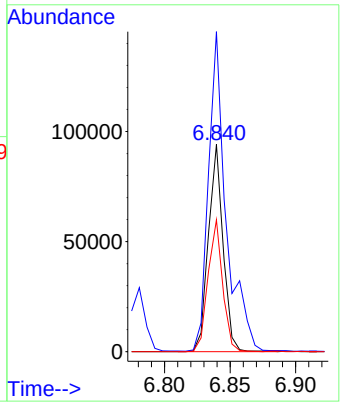




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.840 min Scan# 8(
Delta R.T. -0.005 min
Lab File: BF134357.D
Acq: 19 Jul 2023 14:07

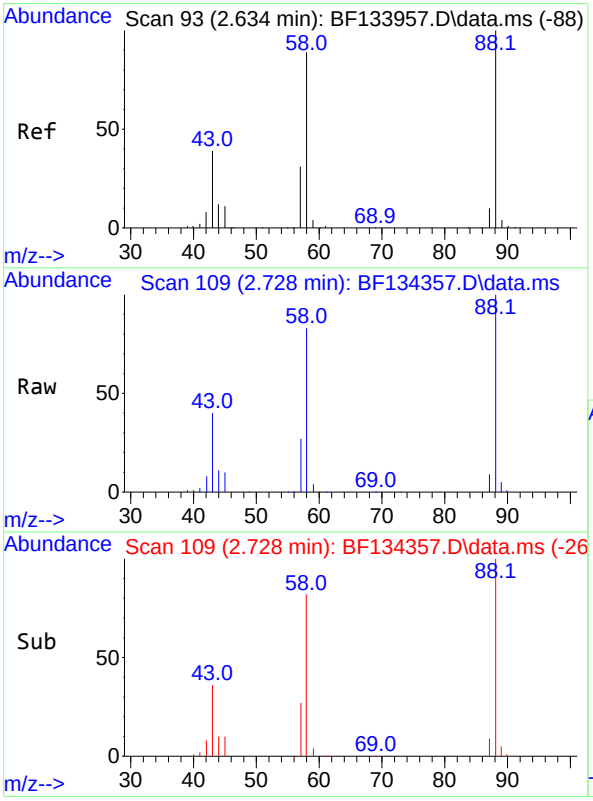
Tgt Ion:152 Resp: 7345(

Ion	Ratio	Lower	Upper
152	100		
150	154.5	124.5	186.7
115	63.6	50.2	75.2



Instrument :
BNA_F
ClientSampleId :
PB154258BS

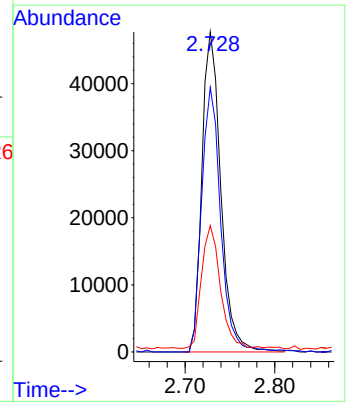
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 07/20/2023
Supervised By :mohammad ahmed 07/20/2023

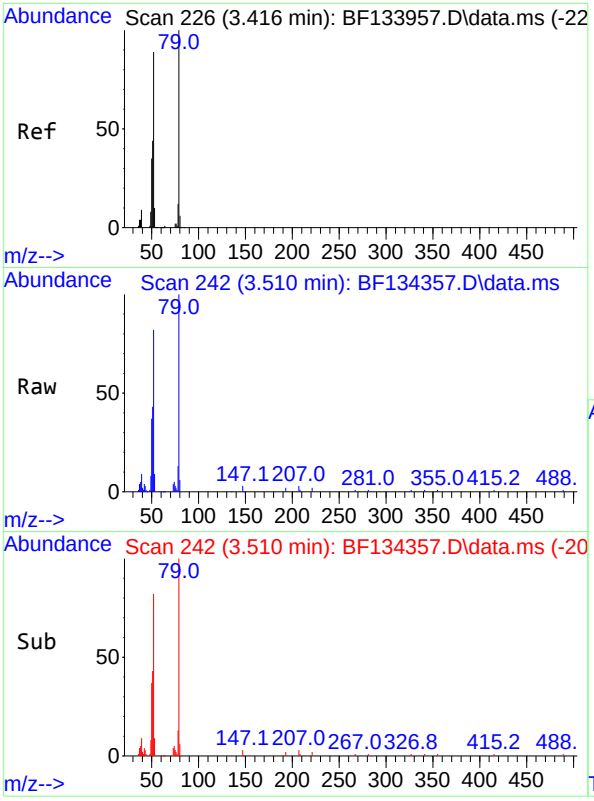


#2
1,4-Dioxane
Concen: 38.522 ng
RT: 2.728 min Scan# 109
Delta R.T. 0.135 min
Lab File: BF134357.D
Acq: 19 Jul 2023 14:07

Tgt Ion: 88 Resp: 69750

Ion	Ratio	Lower	Upper
88	100		
58	83.0	68.8	103.2
43	38.0	30.7	46.1

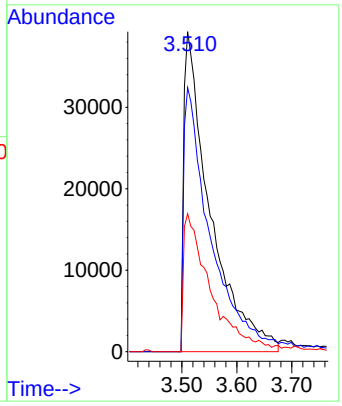




#3
Pyridine
Concen: 27.474 ng
RT: 3.510 min Scan# 24
Delta R.T. 0.130 min
Lab File: BF134357.D
Acq: 19 Jul 2023 14:07

Tgt Ion: 79 Resp: 12957

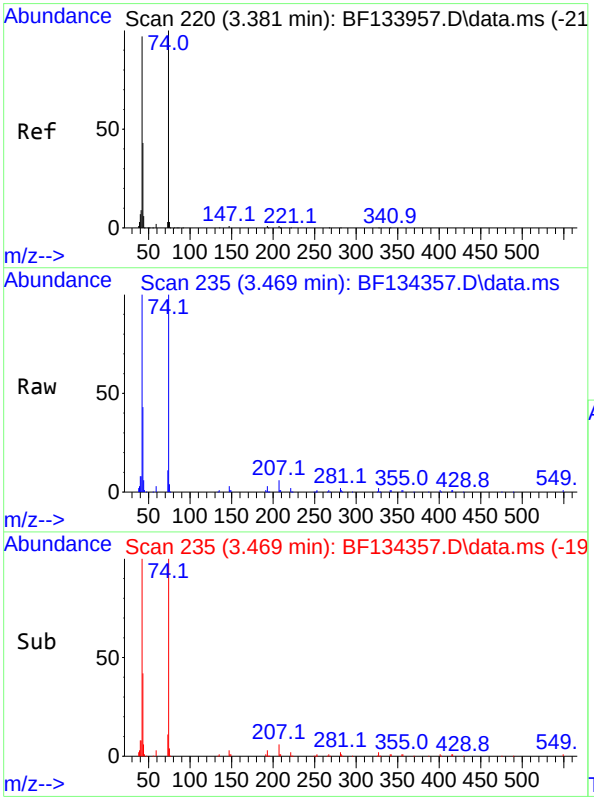
Ion	Ratio	Lower	Upper
79	100		
52	82.5	71.1	106.7
51	43.1	35.2	52.8



Instrument :
BNA_F
ClientSampleId :
PB154258BS

Manual Integrations
APPROVED

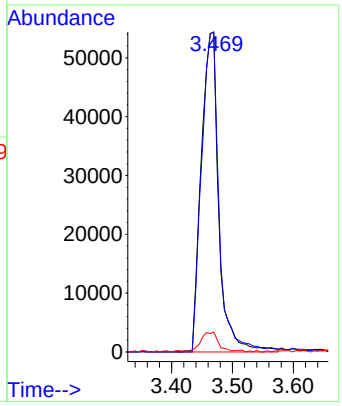
Reviewed By :Yogesh Patel 07/20/2023
Supervised By :mohammad ahmed 07/20/2023

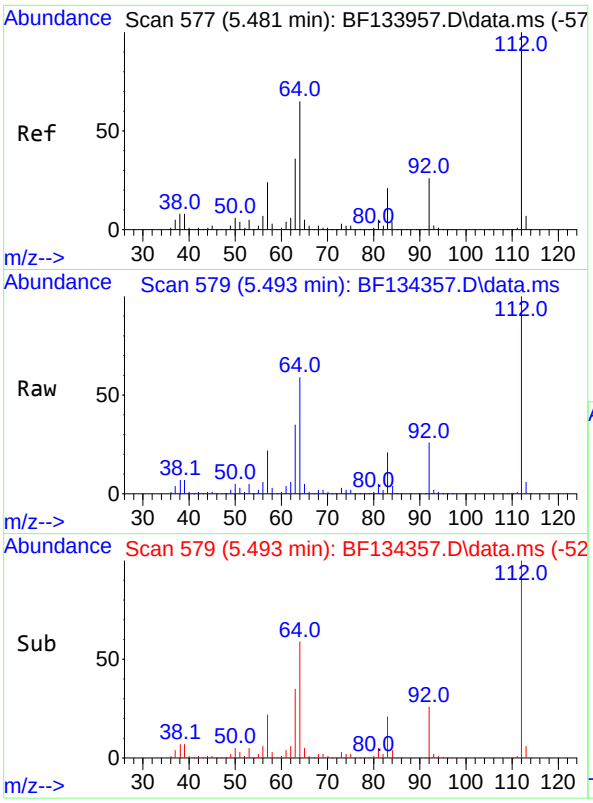


#4
n-Nitrosodimethylamine
Concen: 40.414 ng
RT: 3.469 min Scan# 235
Delta R.T. 0.130 min
Lab File: BF134357.D
Acq: 19 Jul 2023 14:07

Tgt Ion: 42 Resp: 108860

Ion	Ratio	Lower	Upper
42	100		
74	99.9	82.4	123.6
44	6.2	4.9	7.3

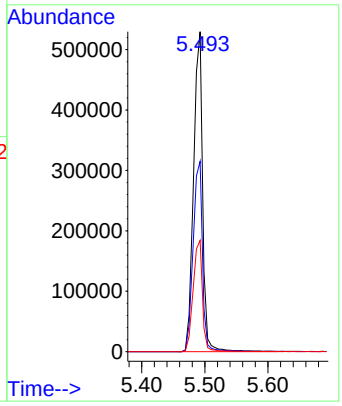




#5
2-Fluorophenol
Concen: 120.447 ng
RT: 5.493 min Scan# 5
Delta R.T. 0.024 min
Lab File: BF134357.D
Acq: 19 Jul 2023 14:07

Tgt Ion:112 Resp: 52891

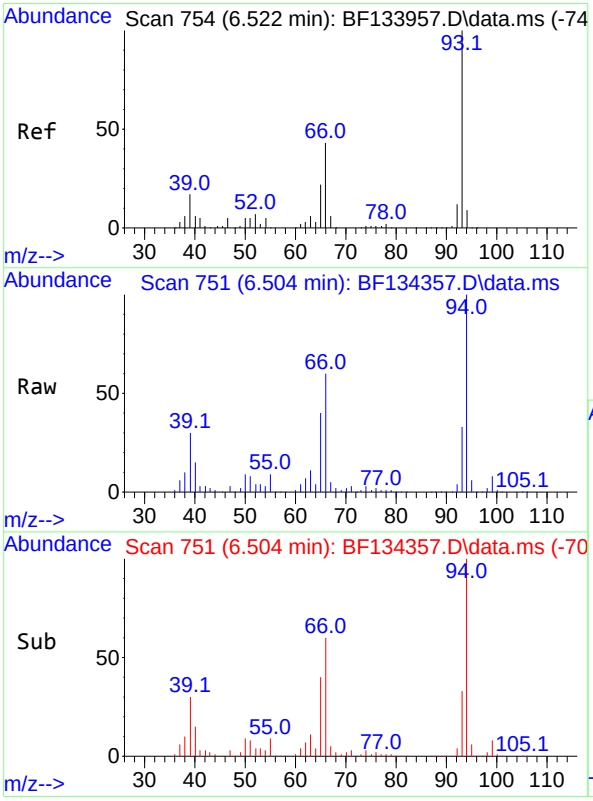
Ion	Ratio	Lower	Upper
112	100		
64	59.5	52.1	78.1
63	34.8	28.6	42.8



Instrument :
BNA_F
ClientSampleId :
PB154258BS

Manual Integrations
APPROVED

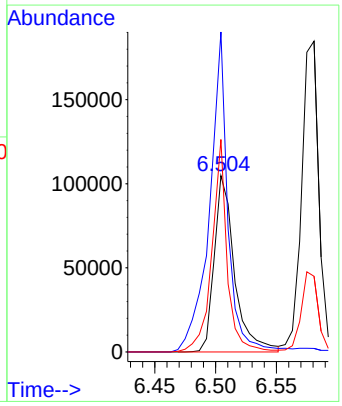
Reviewed By :Yogesh Patel 07/20/2023
Supervised By :mohammad ahmed 07/20/2023

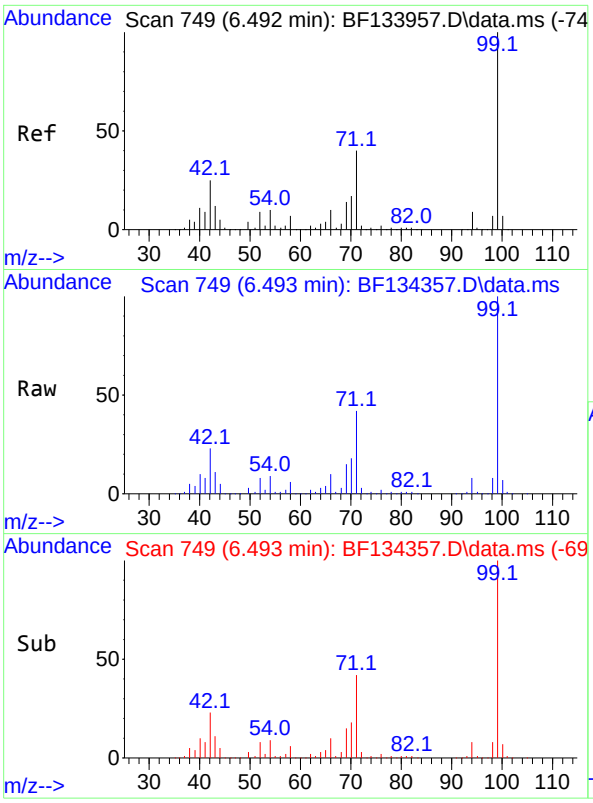


#6
Aniline
Concen: 18.487 ng
RT: 6.504 min Scan# 751
Delta R.T. -0.006 min
Lab File: BF134357.D
Acq: 19 Jul 2023 14:07

Tgt Ion: 93 Resp: 121487

Ion	Ratio	Lower	Upper
93	100		
66	181.5	34.5	51.7#
65	120.5	17.8	26.6#

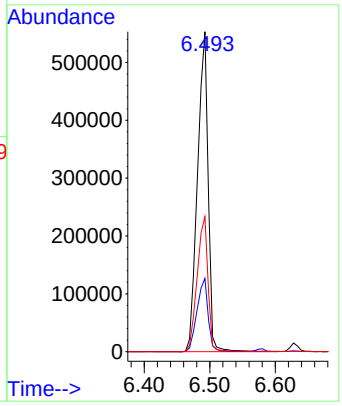




#7
Phenol-d6
Concen: 115.974 ng
RT: 6.493 min Scan# 7
Delta R.T. 0.006 min
Lab File: BF134357.D
Acq: 19 Jul 2023 14:07

Tgt Ion: 99 Resp: 62630

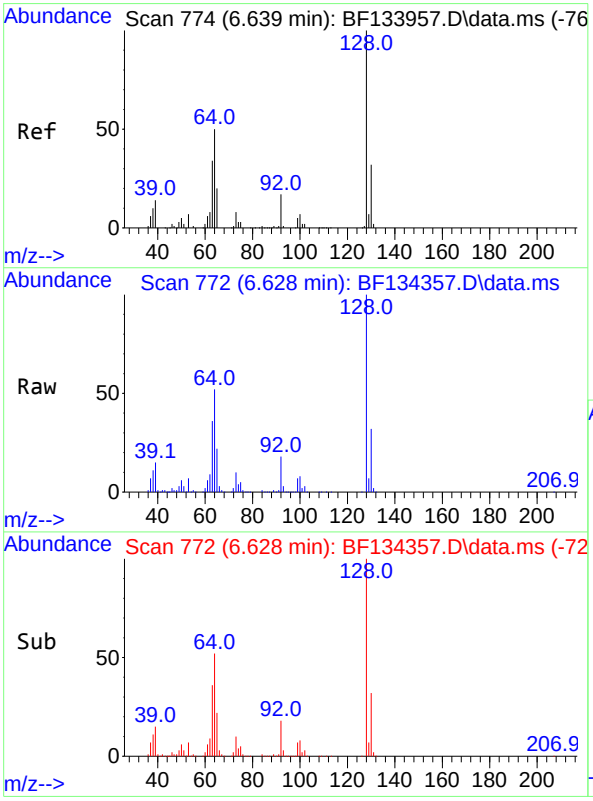
Ion	Ratio	Lower	Upper
99	100		
42	22.9	19.8	29.6
71	42.2	31.9	47.9



Instrument :
BNA_F
ClientSampleId :
PB154258BS

Manual Integrations
APPROVED

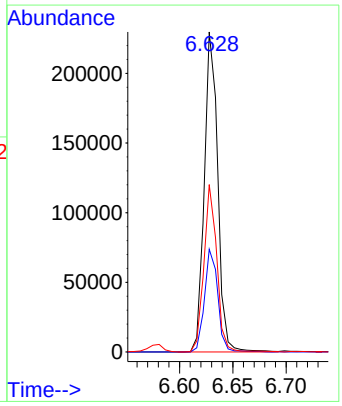
Reviewed By :Yogesh Patel 07/20/2023
Supervised By :mohammad ahmed 07/20/2023

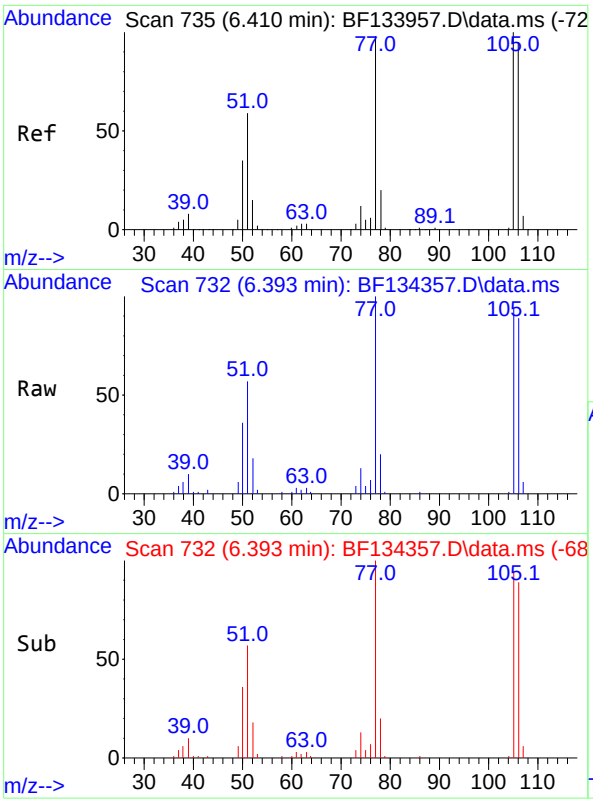


#8
2-Chlorophenol
Concen: 45.397 ng
RT: 6.628 min Scan# 772
Delta R.T. -0.006 min
Lab File: BF134357.D
Acq: 19 Jul 2023 14:07

Tgt Ion:128 Resp: 202366

Ion	Ratio	Lower	Upper
128	100		
130	32.1	11.7	51.7
64	52.3	31.3	71.3

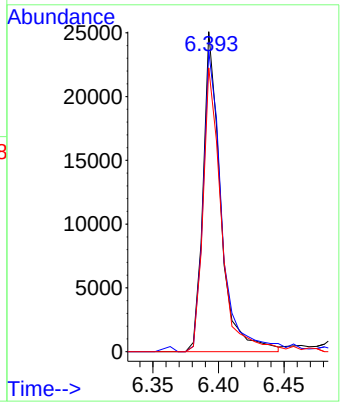




#9
Benzaldehyde
Concen: 5.621 ng
RT: 6.393 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF134357.D
Acq: 19 Jul 2023 14:07

Tgt Ion: 77 Resp: 2338

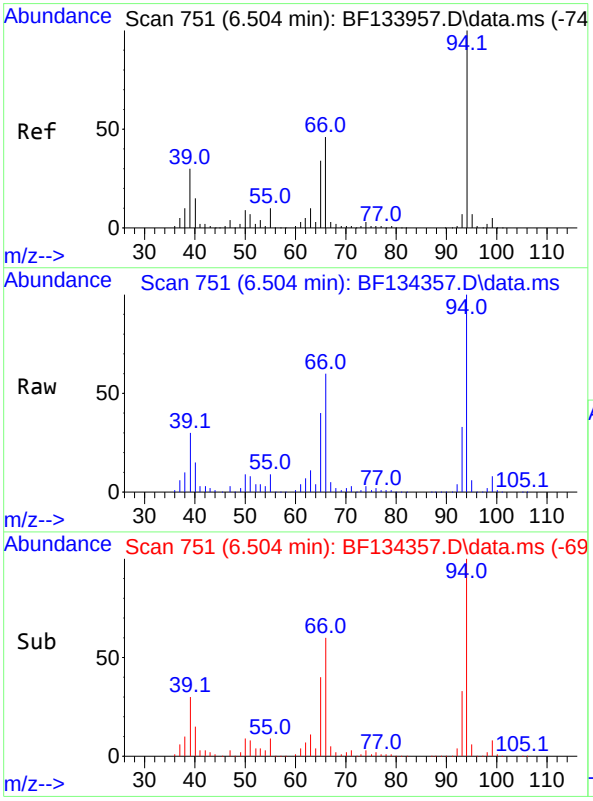
Ion	Ratio	Lower	Upper
77	100		
105	93.8	82.0	122.0
106	88.7	76.9	116.9



Instrument :
BNA_F
ClientSampleId :
PB154258BS

Manual Integrations
APPROVED

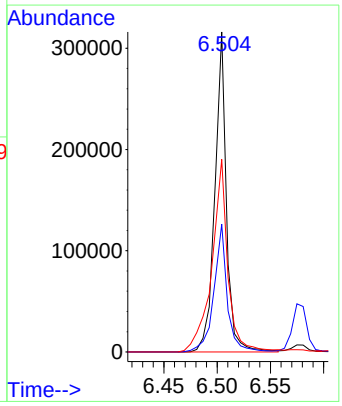
Reviewed By :Yogesh Patel 07/20/2023
Supervised By :mohammad ahmed 07/20/2023

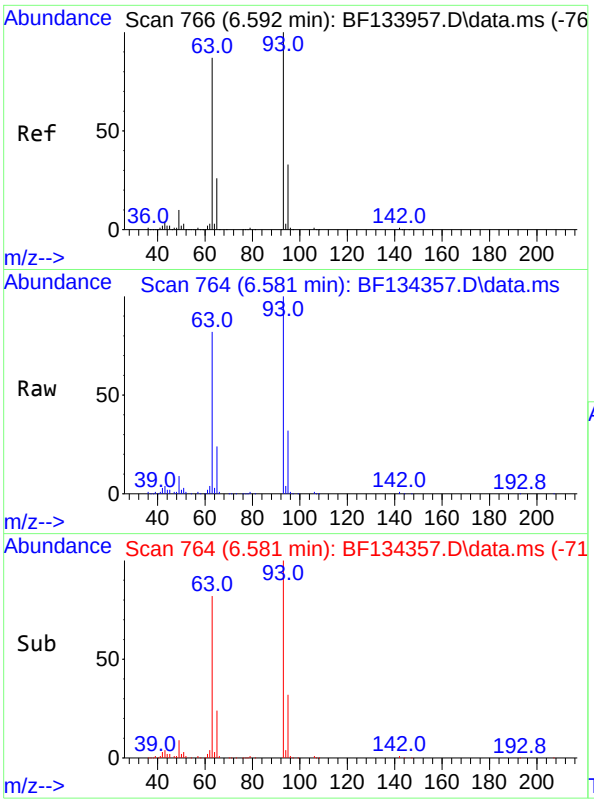


#10
Phenol
Concen: 42.071 ng
RT: 6.504 min Scan# 751
Delta R.T. 0.006 min
Lab File: BF134357.D
Acq: 19 Jul 2023 14:07

Tgt Ion: 94 Resp: 238883

Ion	Ratio	Lower	Upper
94	100		
65	40.0	14.2	54.2
66	60.2	26.4	66.4

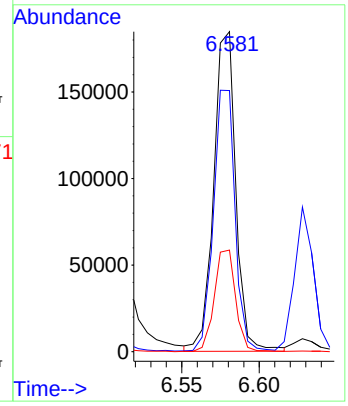




#11
bis(2-Chloroethyl)ether
Concen: 43.905 ng
RT: 6.581 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF134357.D
Acq: 19 Jul 2023 14:07

Tgt Ion: 93 Resp: 18354

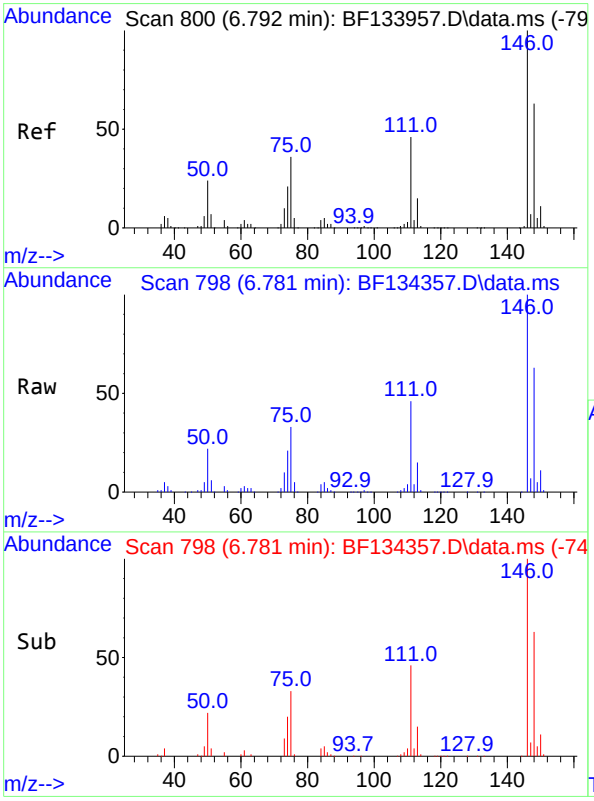
Ion	Ratio	Lower	Upper
93	100		
63	81.6	66.5	106.5
95	31.8	12.9	52.9



Instrument :
BNA_F
ClientSampleId :
PB154258BS

Manual Integrations
APPROVED

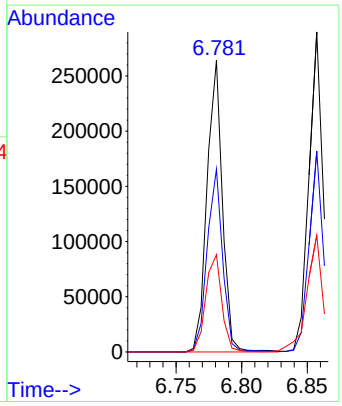
Reviewed By :Yogesh Patel 07/20/2023
Supervised By :mohammad ahmed 07/20/2023

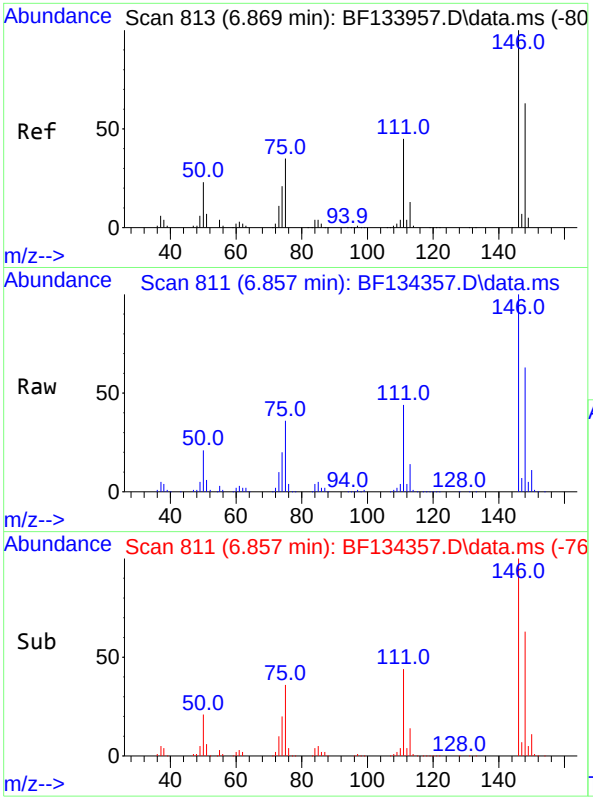


#12
1,3-Dichlorobenzene
Concen: 45.492 ng
RT: 6.781 min Scan# 798
Delta R.T. -0.006 min
Lab File: BF134357.D
Acq: 19 Jul 2023 14:07

Tgt Ion:146 Resp: 216197

Ion	Ratio	Lower	Upper
146	100		
148	62.7	50.5	75.7
75	33.4	29.0	43.6

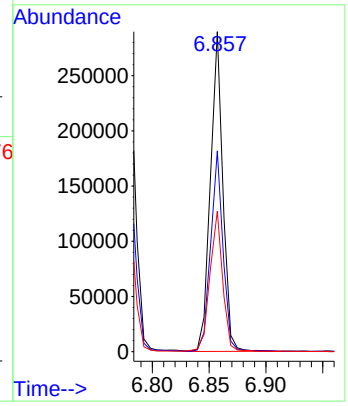




#13
1,4-Dichlorobenzene
Concen: 45.915 ng
RT: 6.857 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF134357.D
Acq: 19 Jul 2023 14:07

Tgt Ion:146 Resp: 22039

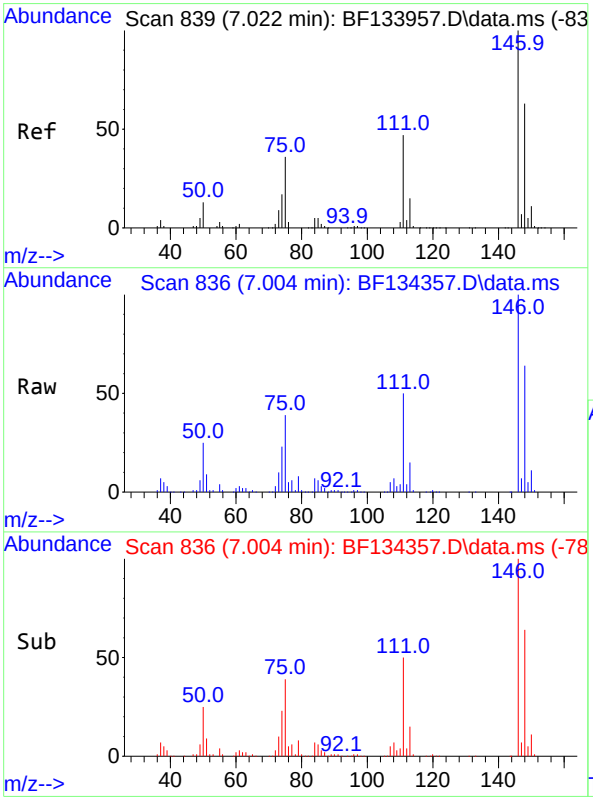
Ion	Ratio	Lower	Upper
146	100		
148	62.7	50.2	75.2
111	44.0	35.8	53.6



Instrument :
BNA_F
ClientSampleId :
PB154258BS

Manual Integrations
APPROVED

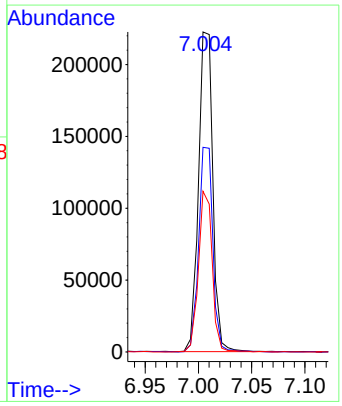
Reviewed By :Yogesh Patel 07/20/2023
Supervised By :mohammad ahmed 07/20/2023

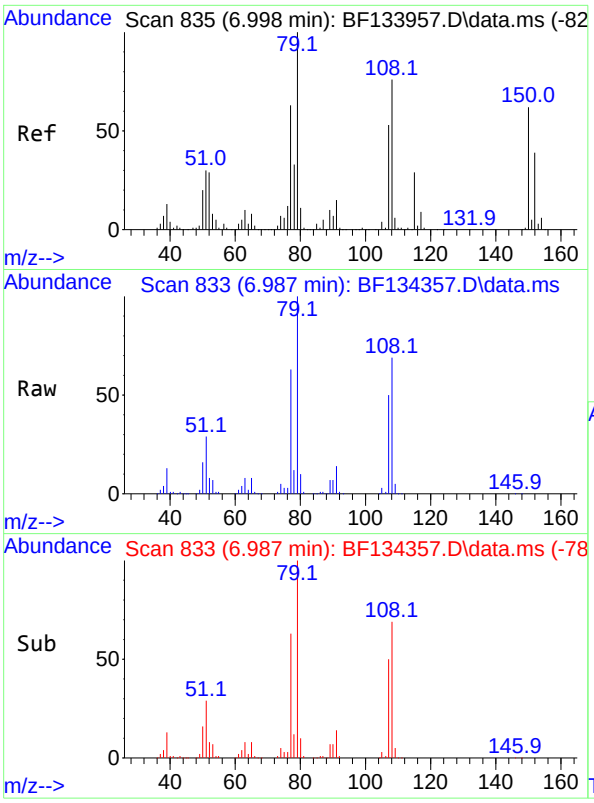


#14
1,2-Dichlorobenzene
Concen: 46.475 ng
RT: 7.004 min Scan# 836
Delta R.T. -0.012 min
Lab File: BF134357.D
Acq: 19 Jul 2023 14:07

Tgt Ion:146 Resp: 208930

Ion	Ratio	Lower	Upper
146	100		
148	64.0	50.6	76.0
111	50.2	38.0	57.0





#15
Benzyl Alcohol
Concen: 45.749 ng
RT: 6.987 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF134357.D
Acq: 19 Jul 2023 14:07

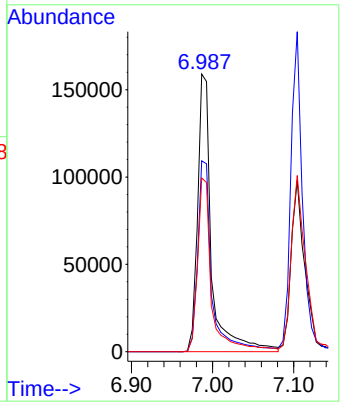
Tgt Ion: 79 Resp: 19046

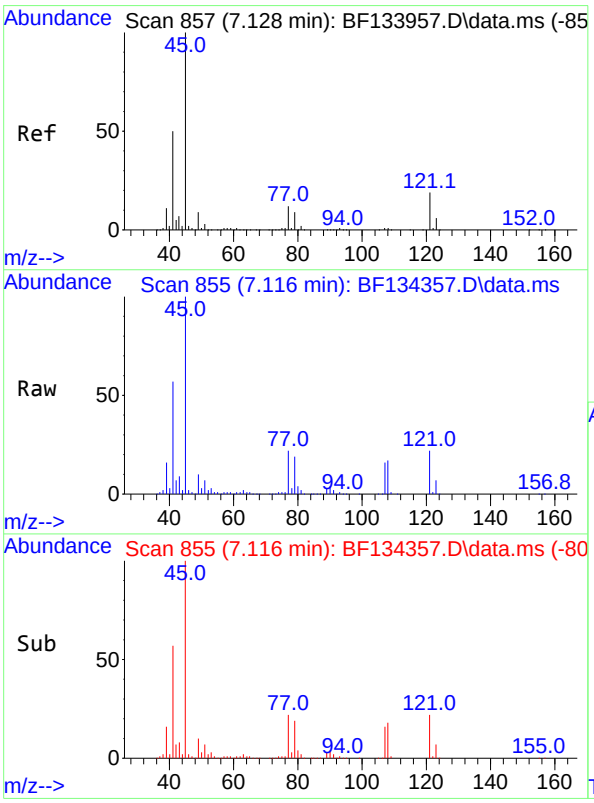
Ion	Ratio	Lower	Upper
79	100		
108	68.8	60.7	91.1
77	62.6	50.6	75.8

Instrument :
BNA_F
ClientSampleId :
PB154258BS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/20/2023
Supervised By :mohammad ahmed 07/20/2023

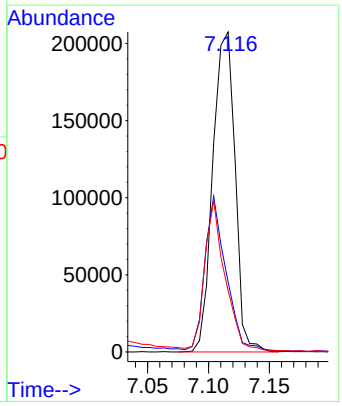


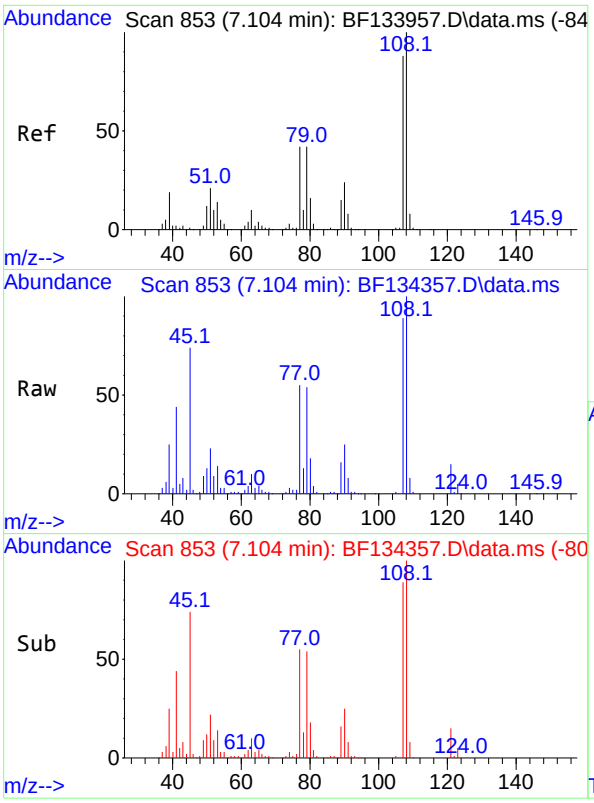


#16
2,2'-oxybis(1-Chloropropane)
Concen: 35.694 ng
RT: 7.116 min Scan# 855
Delta R.T. -0.006 min
Lab File: BF134357.D
Acq: 19 Jul 2023 14:07

Tgt Ion: 45 Resp: 263979

Ion	Ratio	Lower	Upper
45	100		
77	21.8	0.0	32.9
79	19.2	0.0	29.5

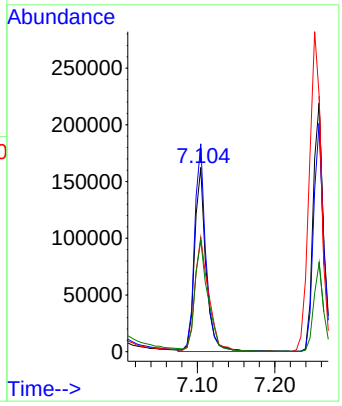




#17
2-Methylphenol
Concen: 41.566 ng
RT: 7.104 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF134357.D
Acq: 19 Jul 2023 14:07

Tgt Ion:107 Resp: 16592

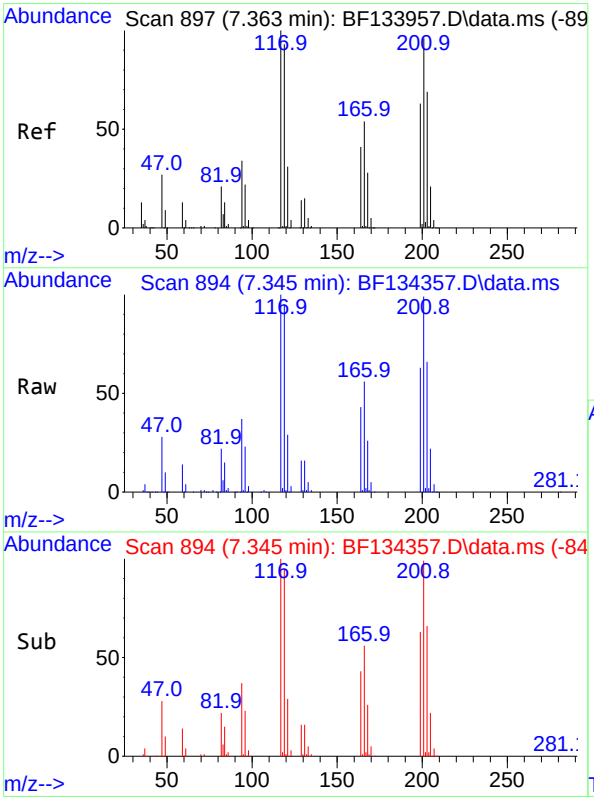
Ion	Ratio	Lower	Upper
107	100		
108	112.8	90.6	136.0
77	62.1	38.3	57.5#
79	60.4	38.8	58.2#



Instrument :
BNA_F
ClientSampleId :
PB154258BS

Manual Integrations
APPROVED

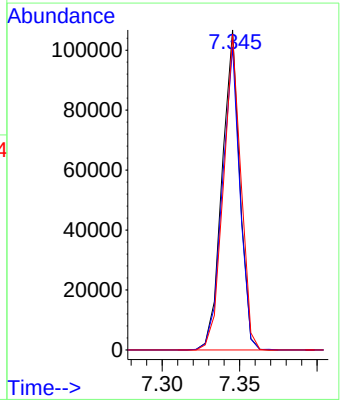
Reviewed By :Yogesh Patel 07/20/2023
Supervised By :mohammad ahmed 07/20/2023

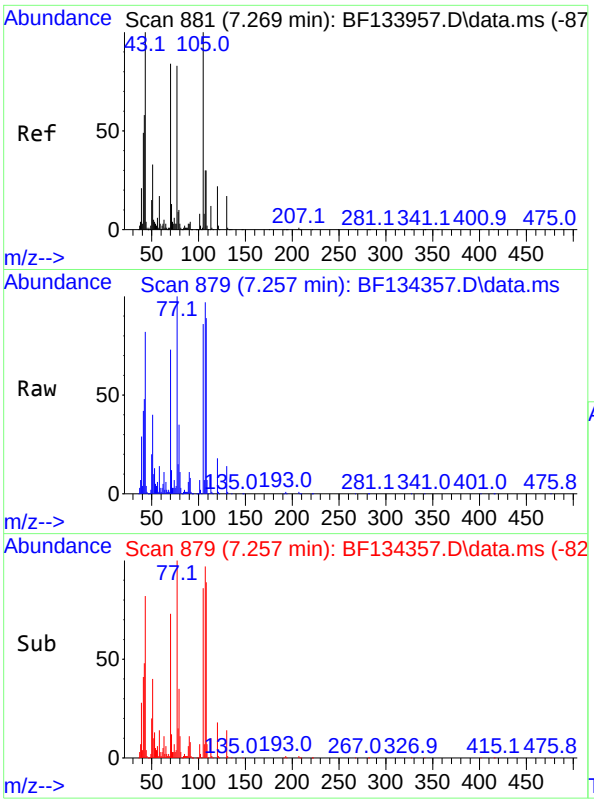


#18
Hexachloroethane
Concen: 47.516 ng
RT: 7.345 min Scan# 894
Delta R.T. -0.006 min
Lab File: BF134357.D
Acq: 19 Jul 2023 14:07

Tgt Ion:117 Resp: 84571

Ion	Ratio	Lower	Upper
117	100		
119	94.8	74.2	111.4
201	98.6	77.2	115.8

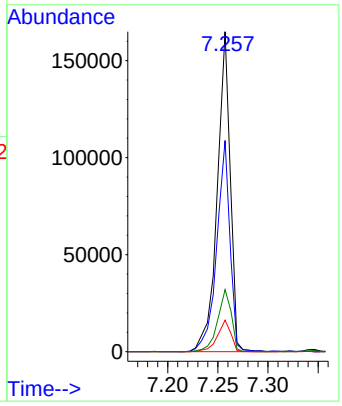




#19
n-Nitroso-di-n-propylamine
Concen: 43.640 ng
RT: 7.257 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF134357.D
Acq: 19 Jul 2023 14:07

Tgt Ion: 70 Resp: 14945

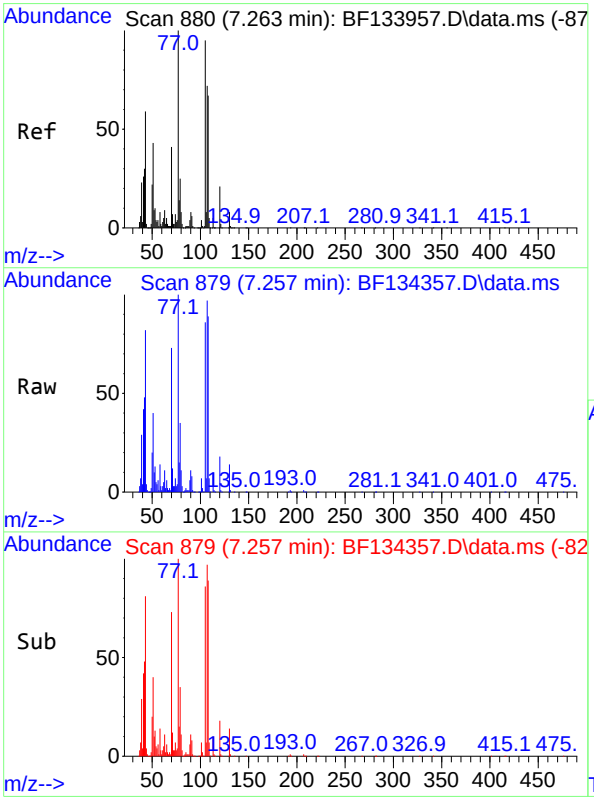
Ion	Ratio	Lower	Upper
70	100		
42	66.0	54.7	82.1
101	9.8	7.7	11.5
130	19.4	16.4	24.6



Instrument :
BNA_F
ClientSampleId :
PB154258BS

Manual Integrations
APPROVED

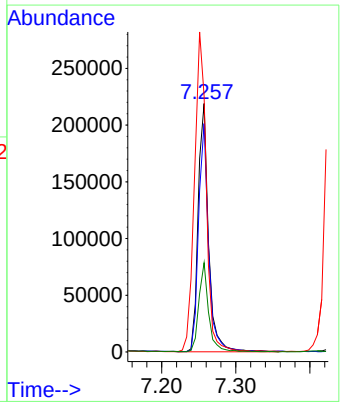
Reviewed By :Yogesh Patel 07/20/2023
Supervised By :mohammad ahmed 07/20/2023

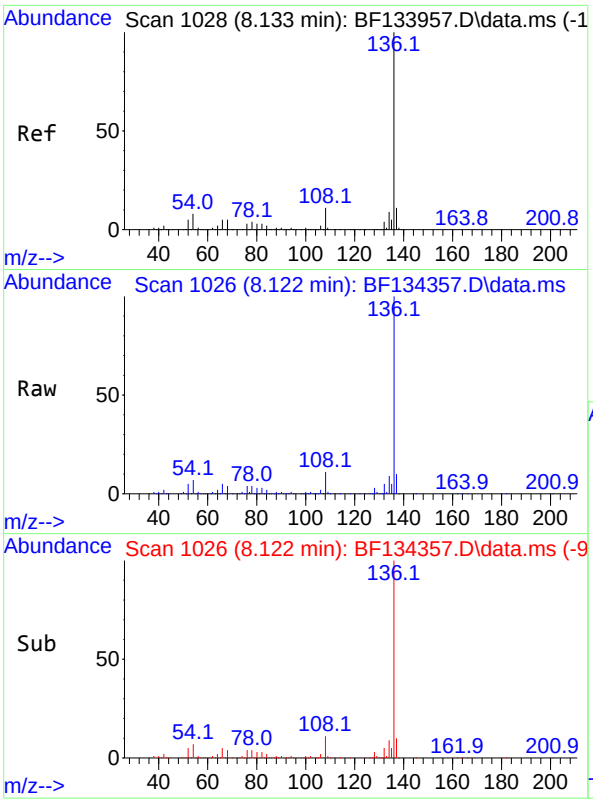


#20
3+4-Methylphenols
Concen: 43.824 ng
RT: 7.257 min Scan# 879
Delta R.T. 0.006 min
Lab File: BF134357.D
Acq: 19 Jul 2023 14:07

Tgt Ion:107 Resp: 212227

Ion	Ratio	Lower	Upper
107	100		
108	91.9	73.2	113.2
77	102.9	118.3	158.3#
79	35.9	14.7	54.7

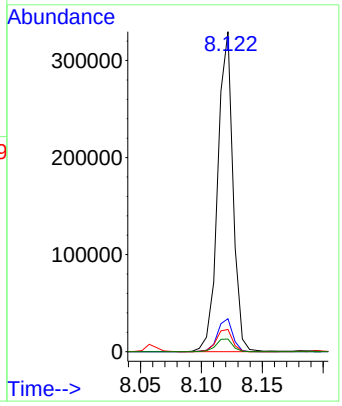




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.122 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134357.D
Acq: 19 Jul 2023 14:07

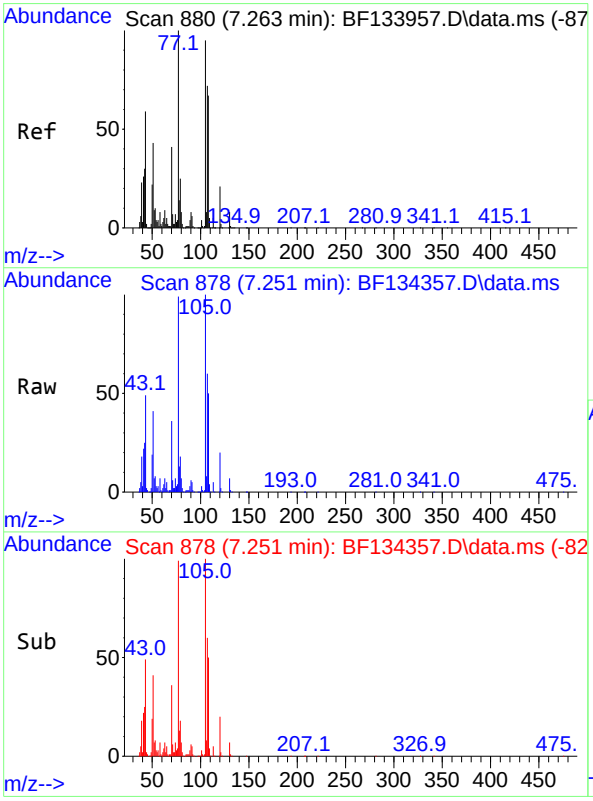
Tgt Ion:136 Resp: 28739

Ion	Ratio	Lower	Upper
136	100		
137	10.3	8.6	12.8
54	7.0	6.5	9.7
68	3.9	4.2	6.2#



Instrument :
BNA_F
ClientSampleId :
PB154258BS

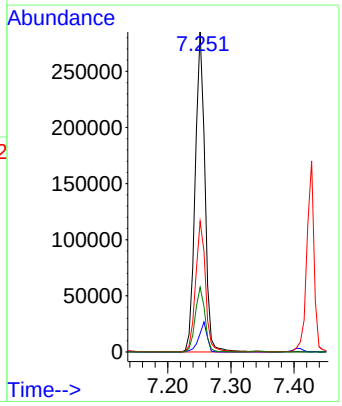
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 07/20/2023
Supervised By :mohammad ahmed 07/20/2023

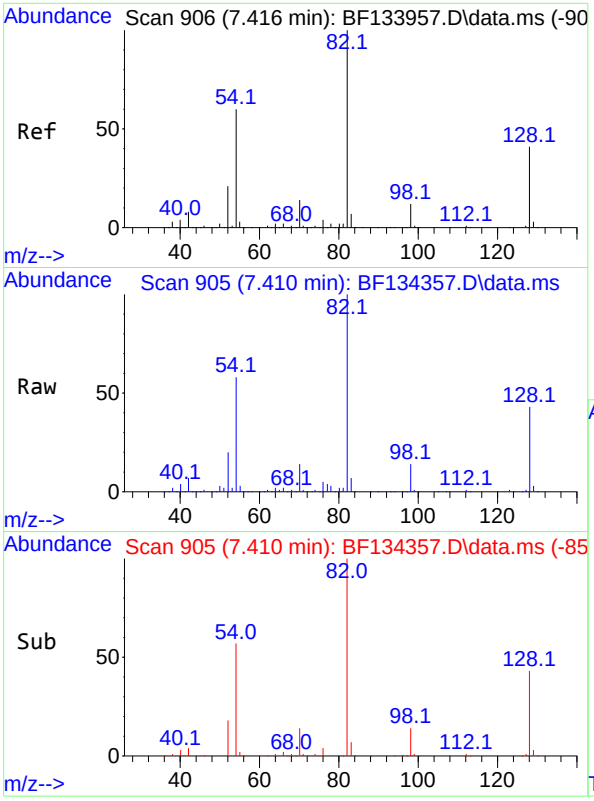


#22
Acetophenone
Concen: 46.507 ng
RT: 7.251 min Scan# 878
Delta R.T. -0.006 min
Lab File: BF134357.D
Acq: 19 Jul 2023 14:07

Tgt Ion:105 Resp: 303978

Ion	Ratio	Lower	Upper
105	100		
71	5.8	5.5	8.3
51	40.8	36.5	54.7
120	20.2	17.3	25.9

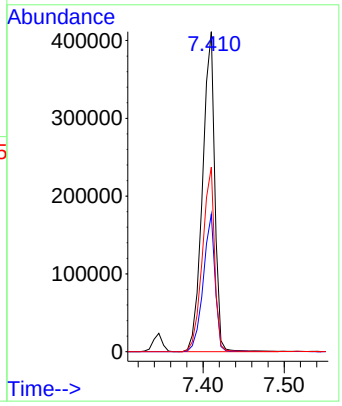




#23
Nitrobenzene-d5
Concen: 80.726 ng
RT: 7.410 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF134357.D
Acq: 19 Jul 2023 14:07

Tgt Ion: 82 Resp: 43039

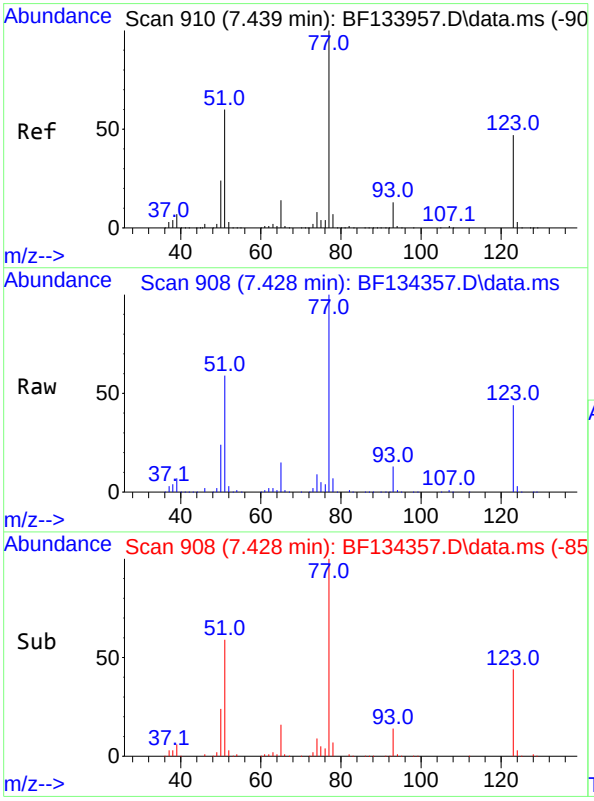
Ion	Ratio	Lower	Upper
82	100		
128	43.0	32.5	48.7
54	57.7	48.2	72.2



Instrument :
BNA_F
ClientSampleId :
PB154258BS

Manual Integrations
APPROVED

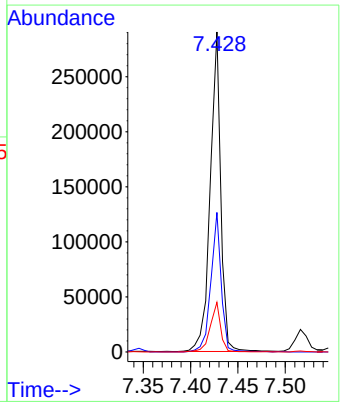
Reviewed By :Yogesh Patel 07/20/2023
Supervised By :mohammad ahmed 07/20/2023

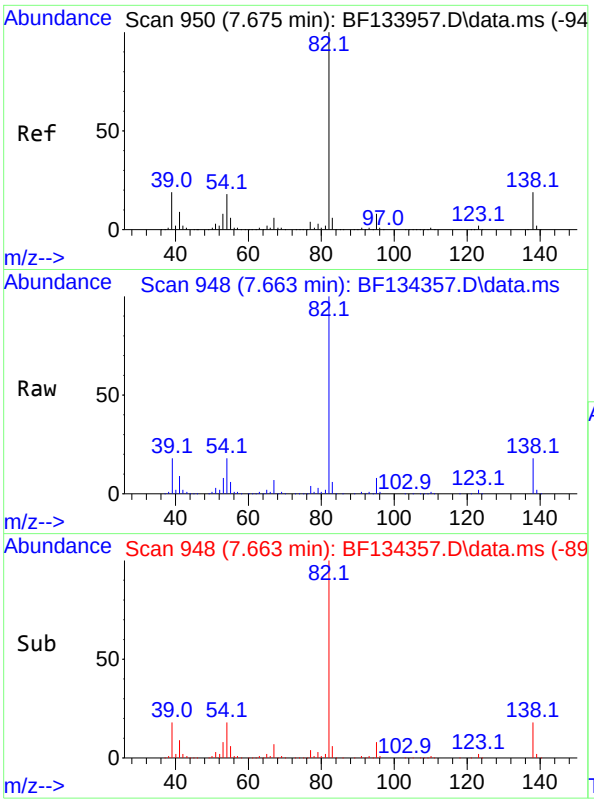


#24
Nitrobenzene
Concen: 41.751 ng
RT: 7.428 min Scan# 908
Delta R.T. 0.000 min
Lab File: BF134357.D
Acq: 19 Jul 2023 14:07

Tgt Ion: 77 Resp: 224942

Ion	Ratio	Lower	Upper
77	100		
123	43.6	37.8	56.6
65	15.5	11.3	16.9

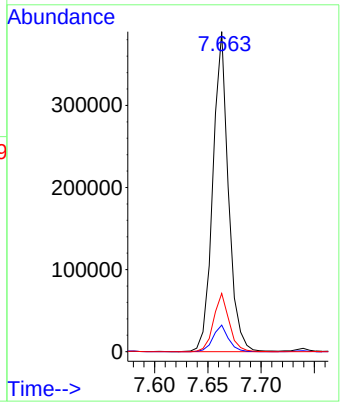




#25
Isophorone
Concen: 40.768 ng
RT: 7.663 min Scan# 94
Delta R.T. 0.000 min
Lab File: BF134357.D
Acq: 19 Jul 2023 14:07

Tgt Ion: 82 Resp: 39502

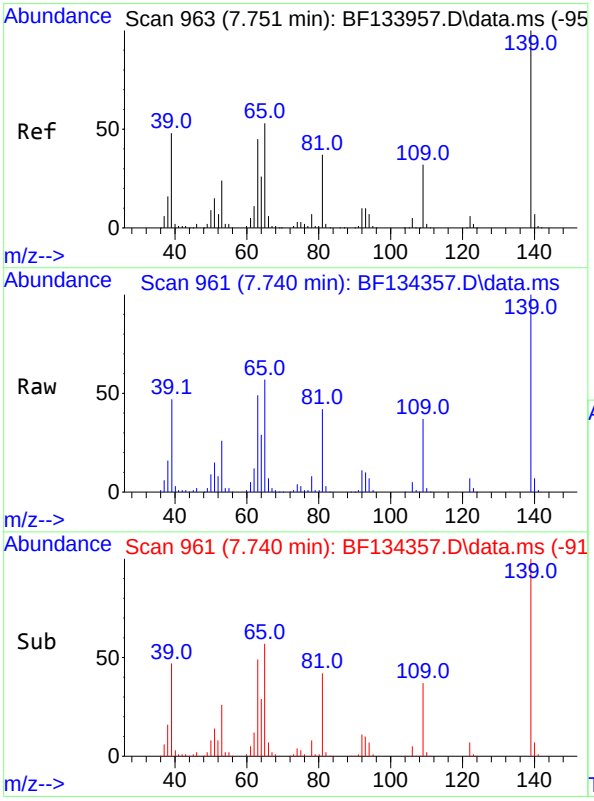
Ion	Ratio	Lower	Upper
82	100		
95	8.3	6.1	9.1
138	18.2	15.2	22.8



Instrument :
BNA_F
ClientSampleId :
PB154258BS

Manual Integrations
APPROVED

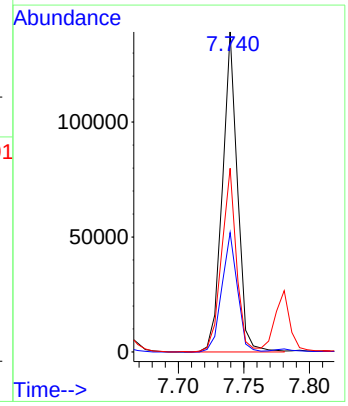
Reviewed By :Yogesh Patel 07/20/2023
Supervised By :mohammad ahmed 07/20/2023

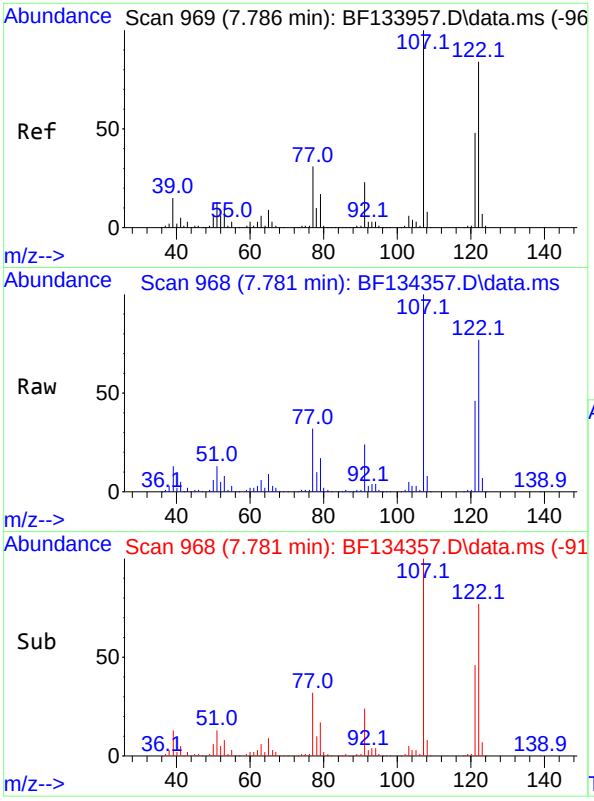


#26
2-Nitrophenol
Concen: 42.924 ng
RT: 7.740 min Scan# 961
Delta R.T. -0.006 min
Lab File: BF134357.D
Acq: 19 Jul 2023 14:07

Tgt Ion:139 Resp: 110940

Ion	Ratio	Lower	Upper
139	100		
109	37.3	25.8	38.8
65	57.4	42.4	63.6

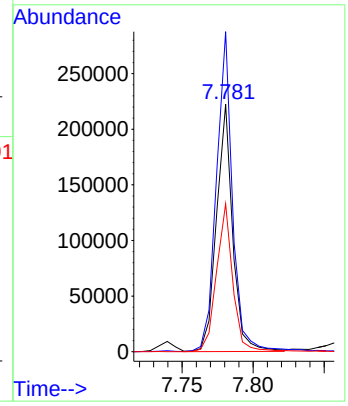




#27
2,4-Dimethylphenol
Concen: 43.078 ng
RT: 7.781 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF134357.D
Acq: 19 Jul 2023 14:07

Tgt Ion:122 Resp: 17623

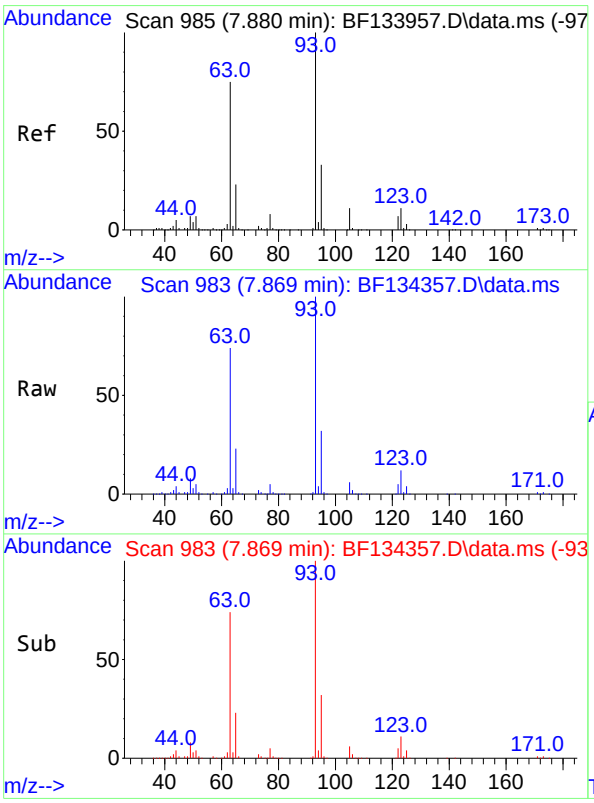
Ion	Ratio	Lower	Upper
122	100		
107	129.3	95.5	143.3
121	59.7	45.5	68.3



Instrument :
BNA_F
ClientSampleId :
PB154258BS

Manual Integrations
APPROVED

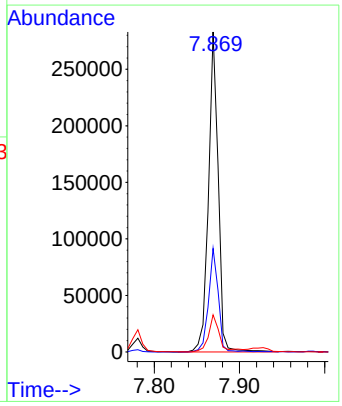
Reviewed By :Yogesh Patel 07/20/2023
Supervised By :mohammad ahmed 07/20/2023

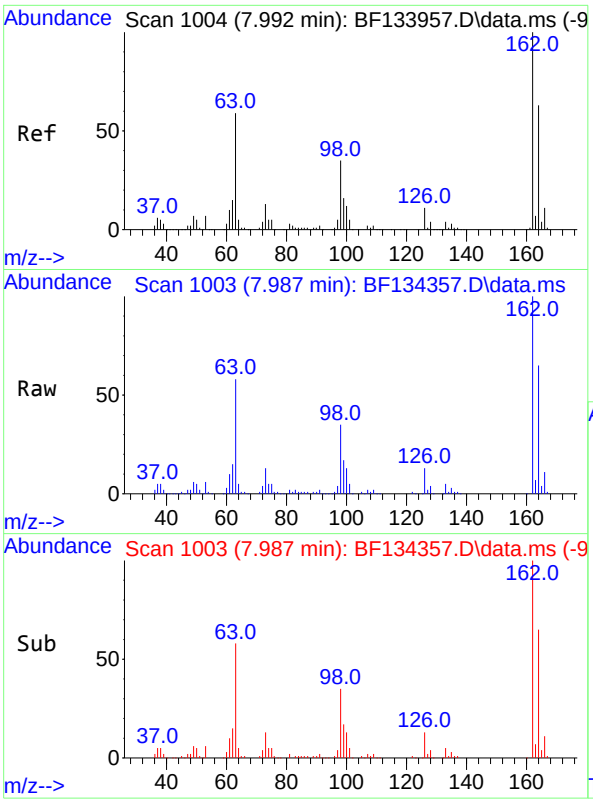


#28
bis(2-Chloroethoxy)methane
Concen: 40.071 ng
RT: 7.869 min Scan# 983
Delta R.T. -0.006 min
Lab File: BF134357.D
Acq: 19 Jul 2023 14:07

Tgt Ion: 93 Resp: 224824

Ion	Ratio	Lower	Upper
93	100		
95	32.4	26.5	39.7
123	11.6	9.1	13.7

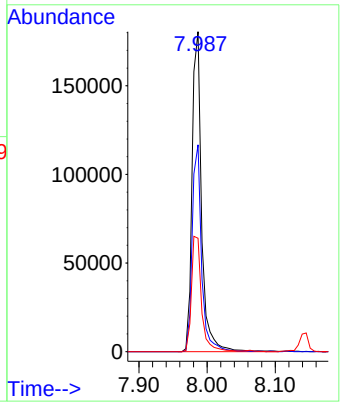




#29
2,4-Dichlorophenol
Concen: 42.728 ng
RT: 7.987 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134357.D
Acq: 19 Jul 2023 14:07

Tgt Ion:162 Resp: 17334

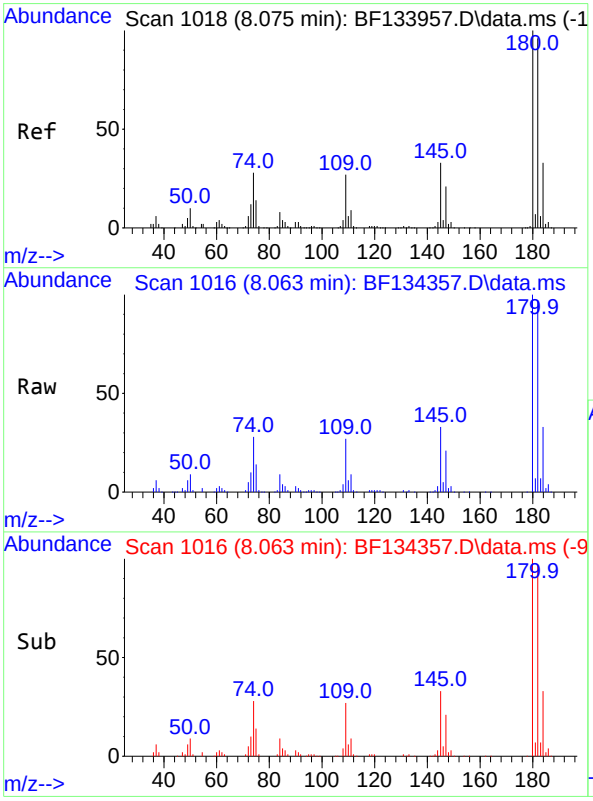
Ion	Ratio	Lower	Upper
162	100		
164	64.6	43.2	83.2
98	35.5	14.9	54.9



Instrument :
BNA_F
ClientSampleId :
PB154258BS

Manual Integrations
APPROVED

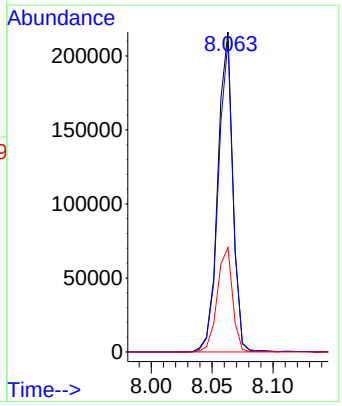
Reviewed By :Yogesh Patel 07/20/2023
Supervised By :mohammad ahmed 07/20/2023

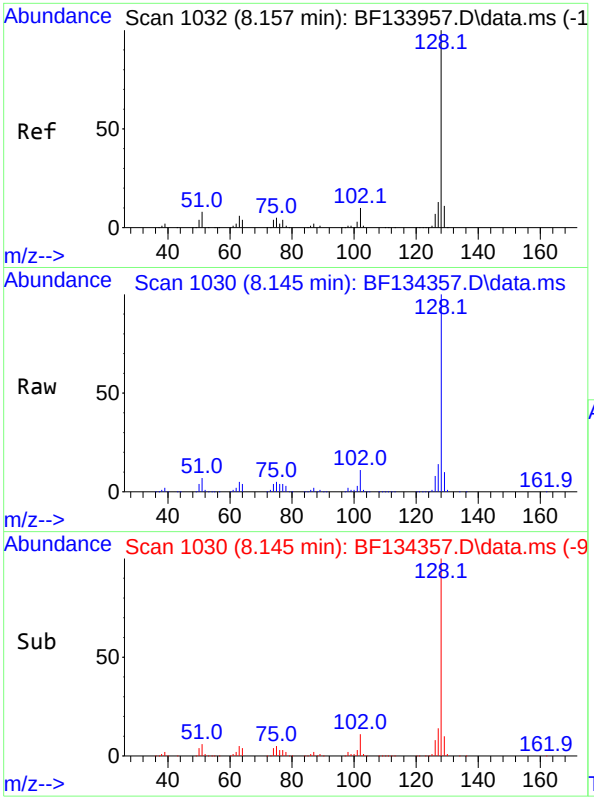


#30
1,2,4-Trichlorobenzene
Concen: 44.447 ng
RT: 8.063 min Scan# 1016
Delta R.T. 0.000 min
Lab File: BF134357.D
Acq: 19 Jul 2023 14:07

Tgt Ion:180 Resp: 186054

Ion	Ratio	Lower	Upper
180	100		
182	97.2	77.1	115.7
145	32.6	26.0	39.0

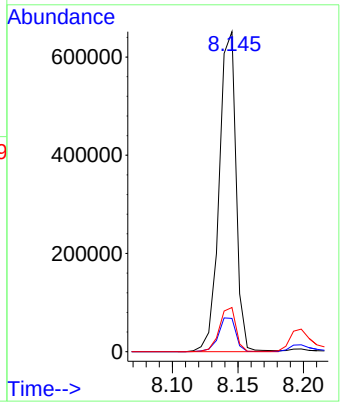




#31
Naphthalene
Concen: 41.861 ng
RT: 8.145 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134357.D
Acq: 19 Jul 2023 14:07

Tgt Ion:128 Resp: 58112

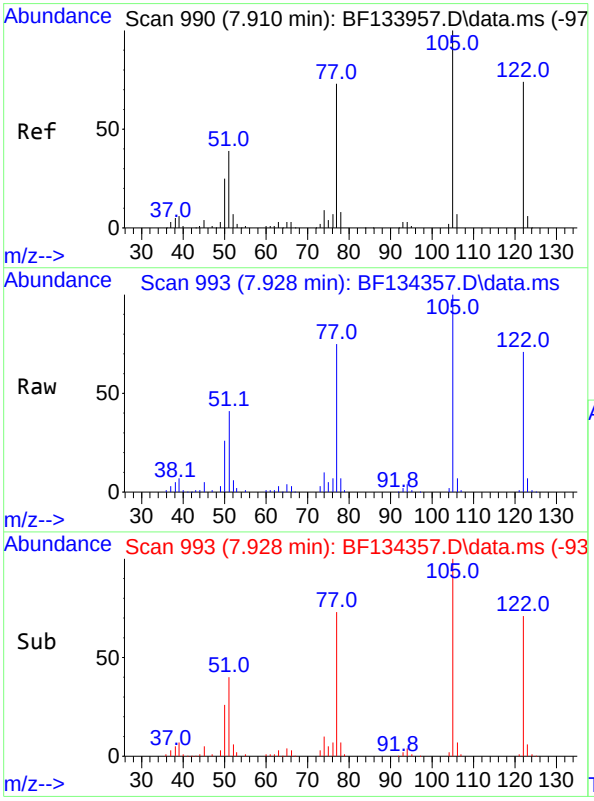
Ion	Ratio	Lower	Upper
128	100		
129	10.4	8.7	13.1
127	13.8	10.6	15.8



Instrument :
BNA_F
ClientSampleId :
PB154258BS

Manual Integrations
APPROVED

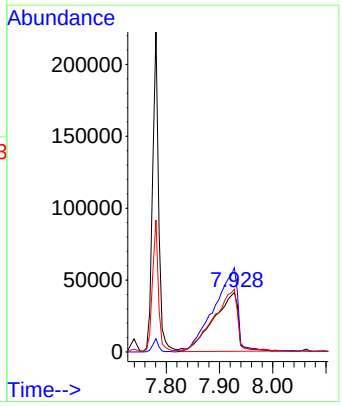
Reviewed By :Yogesh Patel 07/20/2023
Supervised By :mohammad ahmed 07/20/2023

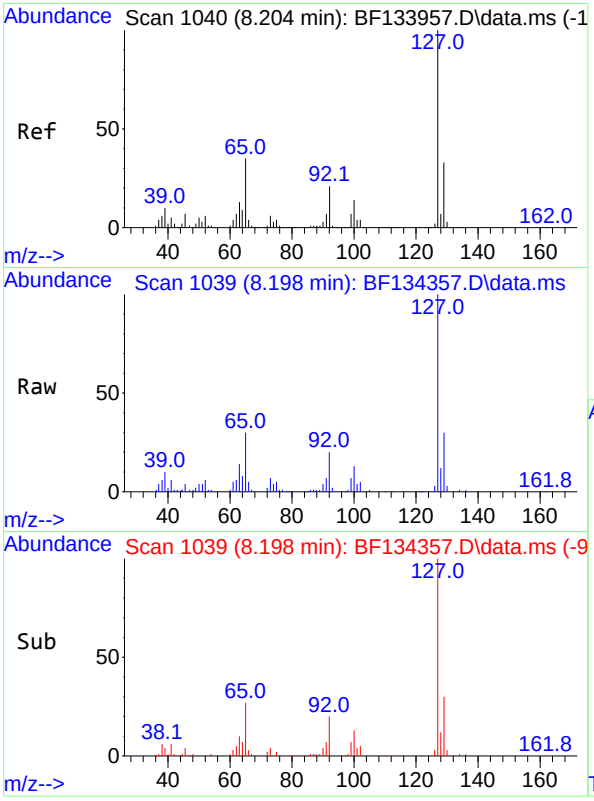


#32
Benzoic acid
Concen: 43.344 ng
RT: 7.928 min Scan# 993
Delta R.T. 0.024 min
Lab File: BF134357.D
Acq: 19 Jul 2023 14:07

Tgt Ion:122 Resp: 132878

Ion	Ratio	Lower	Upper
122	100		
105	141.4	109.7	149.7
77	105.4	76.0	116.0

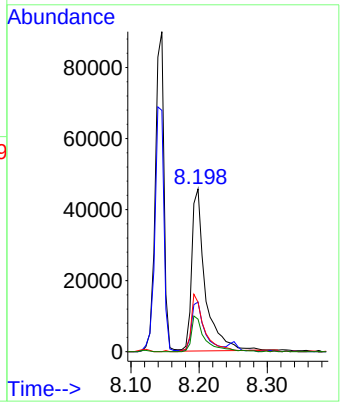




#33
4-Chloroaniline
Concen: 10.532 ng
RT: 8.198 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134357.D
Acq: 19 Jul 2023 14:07

Tgt Ion:127 Resp: 6254

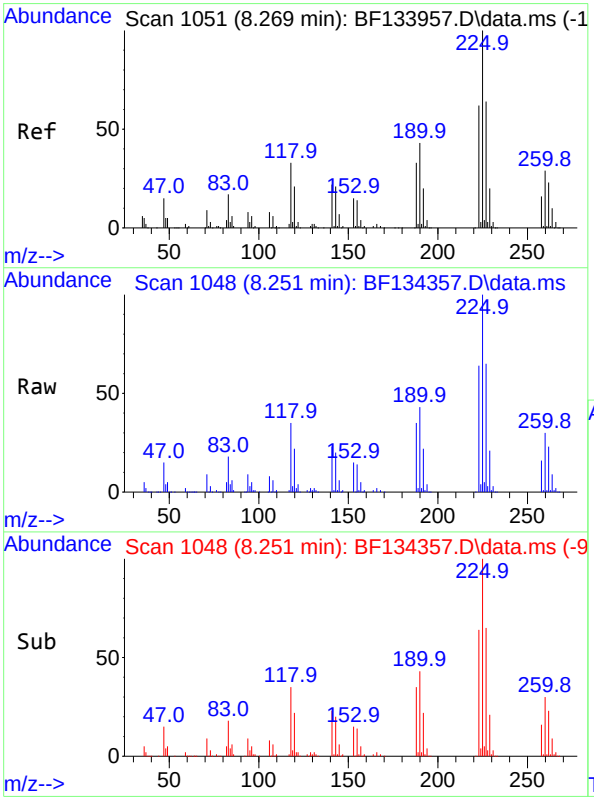
Ion	Ratio	Lower	Upper
127	100		
129	30.5	26.4	39.6
65	30.3	27.8	41.8
92	19.9	16.4	24.6



Instrument :
BNA_F
ClientSampleId :
PB154258BS

Manual Integrations
APPROVED

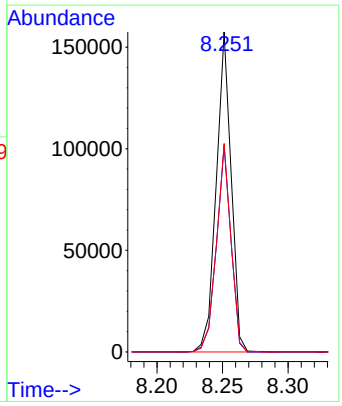
Reviewed By :Yogesh Patel 07/20/2023
Supervised By :mohammad ahmed 07/20/2023

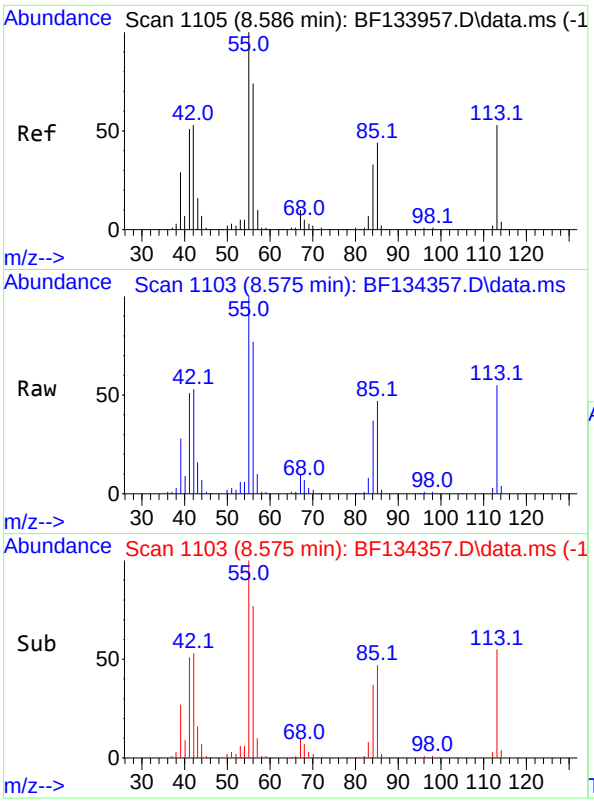


#34
Hexachlorobutadiene
Concen: 47.080 ng
RT: 8.251 min Scan# 1048
Delta R.T. -0.006 min
Lab File: BF134357.D
Acq: 19 Jul 2023 14:07

Tgt Ion:225 Resp: 124318

Ion	Ratio	Lower	Upper
225	100		
223	64.5	49.8	74.8
227	65.2	51.0	76.4

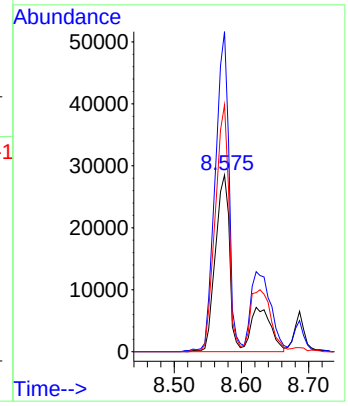




#35
Caprolactam
Concen: 41.947 ng m
RT: 8.575 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134357.D
Acq: 19 Jul 2023 14:07

Tgt Ion:113 Resp: 5603

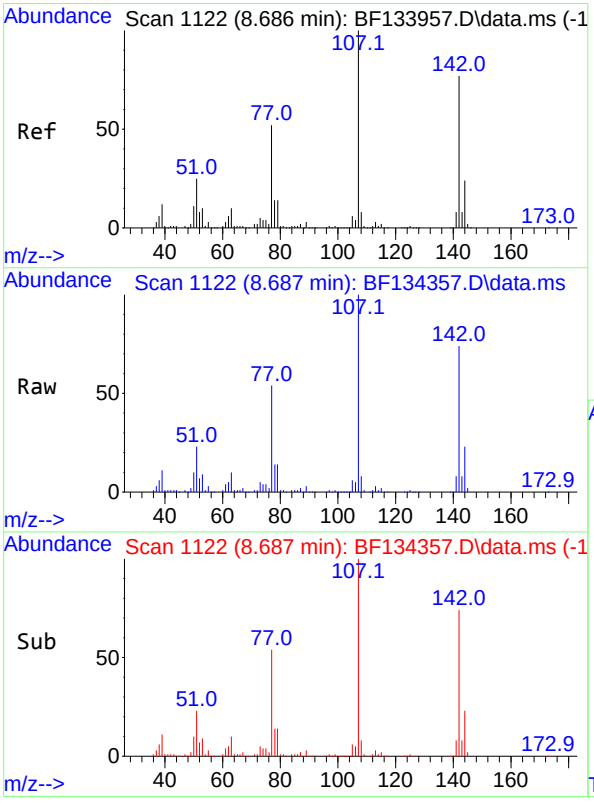
Ion	Ratio	Lower	Upper
113	100		
55	181.2	170.2	210.2
56	139.8	121.4	161.4



Instrument :
BNA_F
ClientSampleId :
PB154258BS

Manual Integrations
APPROVED

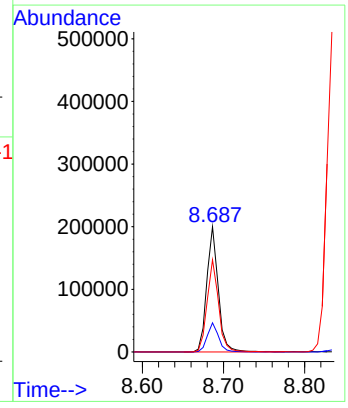
Reviewed By :Yogesh Patel 07/20/2023
Supervised By :mohammad ahmed 07/20/2023

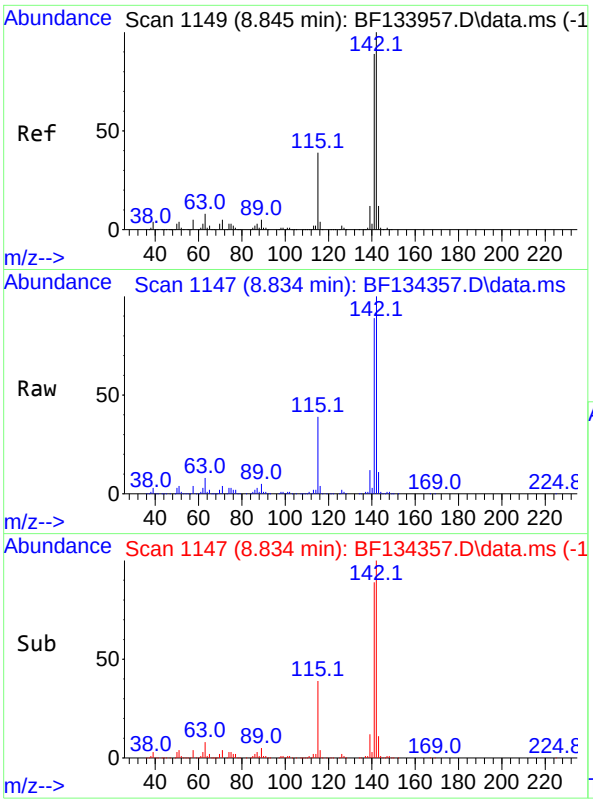


#36
4-Chloro-3-methylphenol
Concen: 43.201 ng
RT: 8.687 min Scan# 1122
Delta R.T. 0.006 min
Lab File: BF134357.D
Acq: 19 Jul 2023 14:07

Tgt Ion:107 Resp: 196886

Ion	Ratio	Lower	Upper
107	100		
144	23.2	19.6	29.4
142	73.6	61.4	92.2





#37
2-Methylnaphthalene
Concen: 40.497 ng
RT: 8.834 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF134357.D
Acq: 19 Jul 2023 14:07

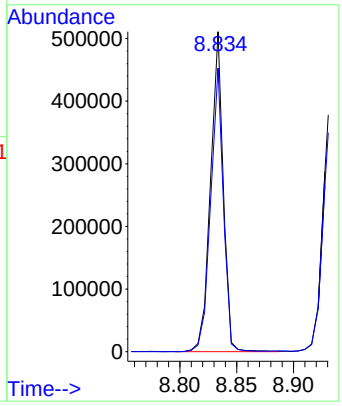
Tgt Ion:142 Resp: 39756

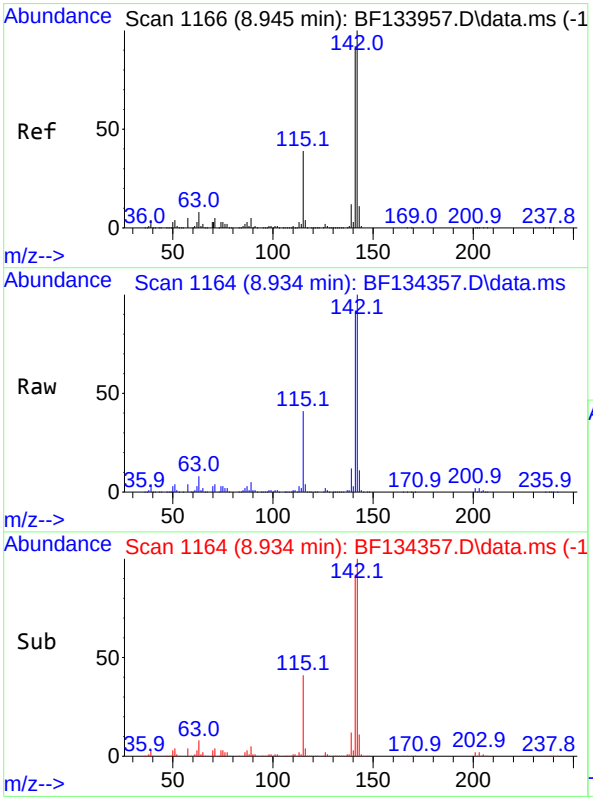
Ion	Ratio	Lower	Upper
142	100		
141	88.6	71.0	106.4

Instrument :
BNA_F
ClientSampleId :
PB154258BS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/20/2023
Supervised By :mohammad ahmed 07/20/2023

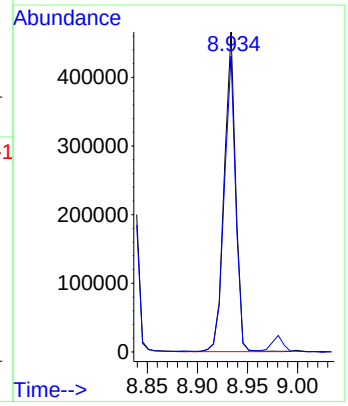


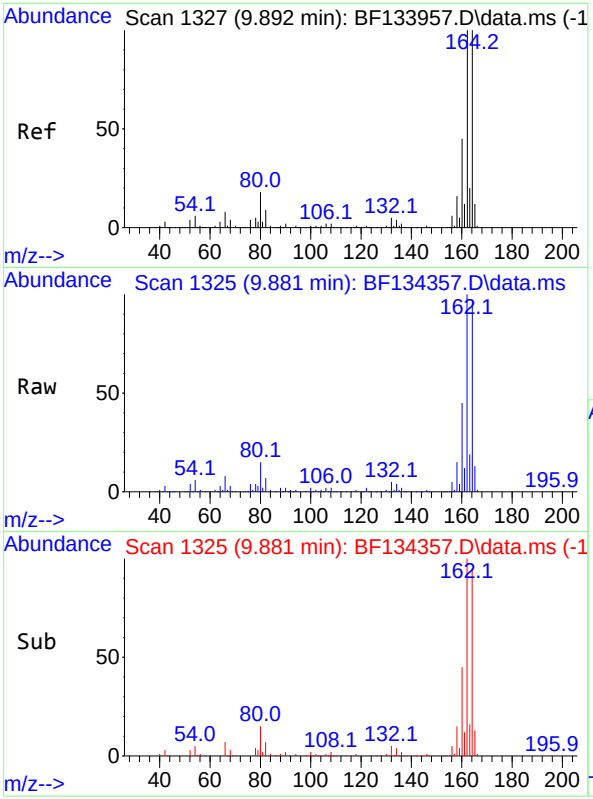


#38
1-Methylnaphthalene
Concen: 40.260 ng
RT: 8.934 min Scan# 1164
Delta R.T. -0.006 min
Lab File: BF134357.D
Acq: 19 Jul 2023 14:07

Tgt Ion:142 Resp: 367427

Ion	Ratio	Lower	Upper
142	100		
141	92.5	73.5	110.3

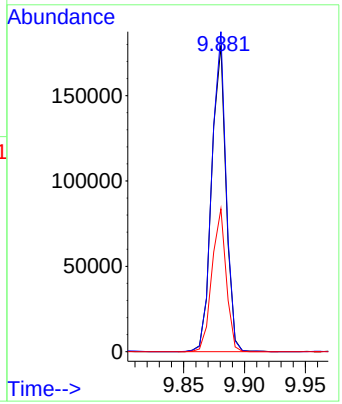




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.881 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134357.D
Acq: 19 Jul 2023 14:07

Tgt Ion:164 Resp: 14754

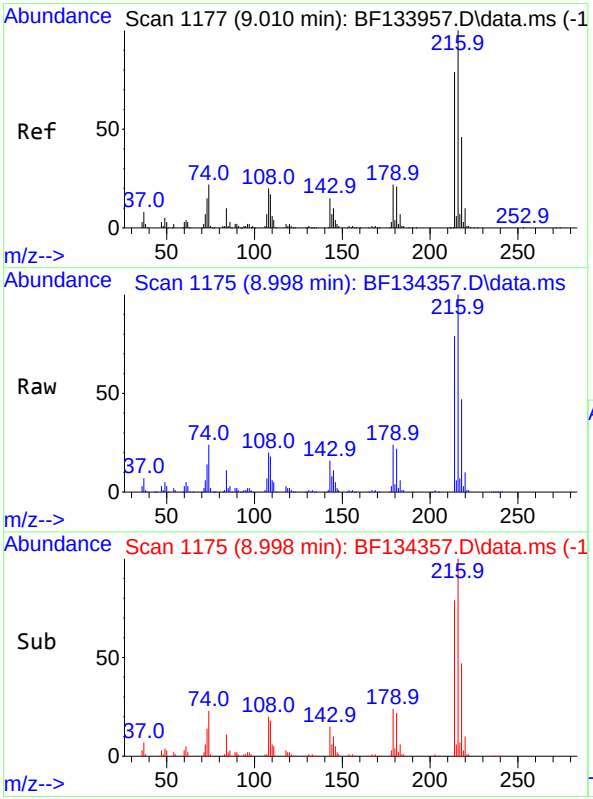
Ion	Ratio	Lower	Upper
164	100		
162	104.5	80.0	120.0
160	46.6	35.9	53.9



Instrument :
BNA_F
ClientSampleId :
PB154258BS

Manual Integrations
APPROVED

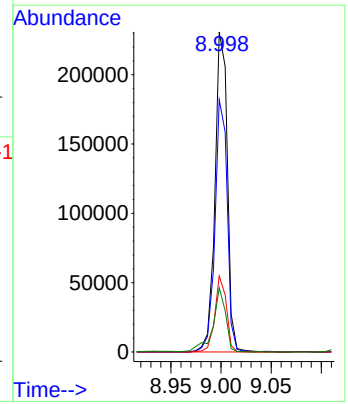
Reviewed By :Yogesh Patel 07/20/2023
Supervised By :mohammad ahmed 07/20/2023

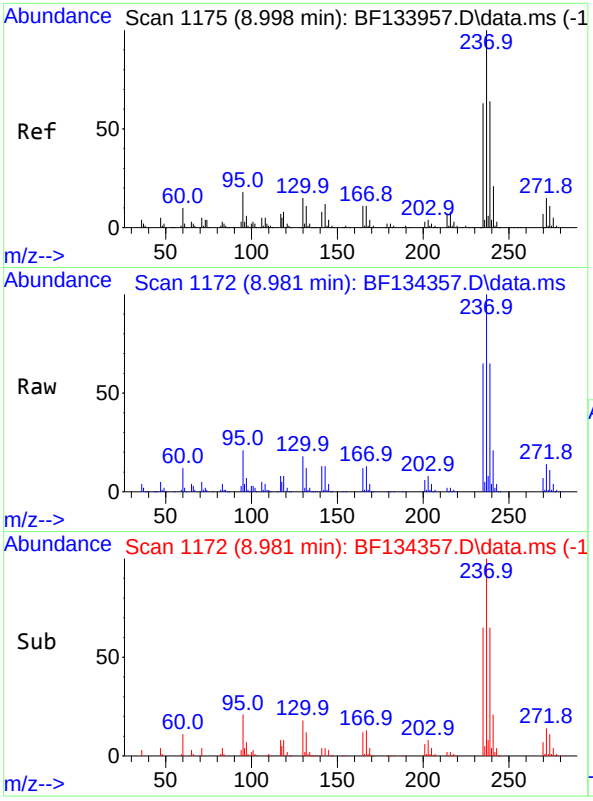


#40
1,2,4,5-Tetrachlorobenzene
Concen: 45.487 ng
RT: 8.998 min Scan# 1175
Delta R.T. -0.006 min
Lab File: BF134357.D
Acq: 19 Jul 2023 14:07

Tgt Ion:216 Resp: 198841

Ion	Ratio	Lower	Upper
216	100		
214	78.3	64.1	96.1
179	22.1	17.3	25.9
108	20.6	16.2	24.2

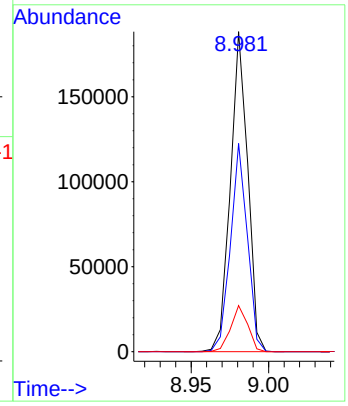




#41
Hexachlorocyclopentadiene
Concen: 70.447 ng
RT: 8.981 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF134357.D
Acq: 19 Jul 2023 14:07

Tgt Ion:237 Resp: 14609

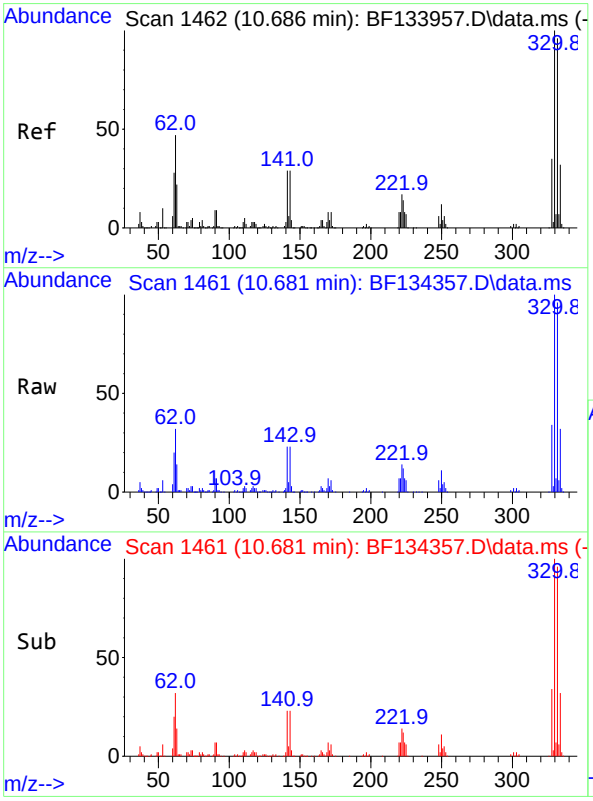
Ion	Ratio	Lower	Upper
237	100		
235	65.0	42.8	82.8
272	14.4	0.0	34.6



Instrument :
BNA_F
ClientSampleId :
PB154258BS

Manual Integrations
APPROVED

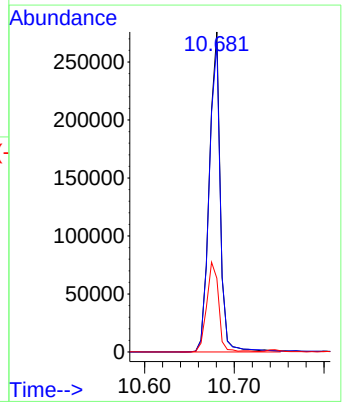
Reviewed By :Yogesh Patel 07/20/2023
Supervised By :mohammad ahmed 07/20/2023

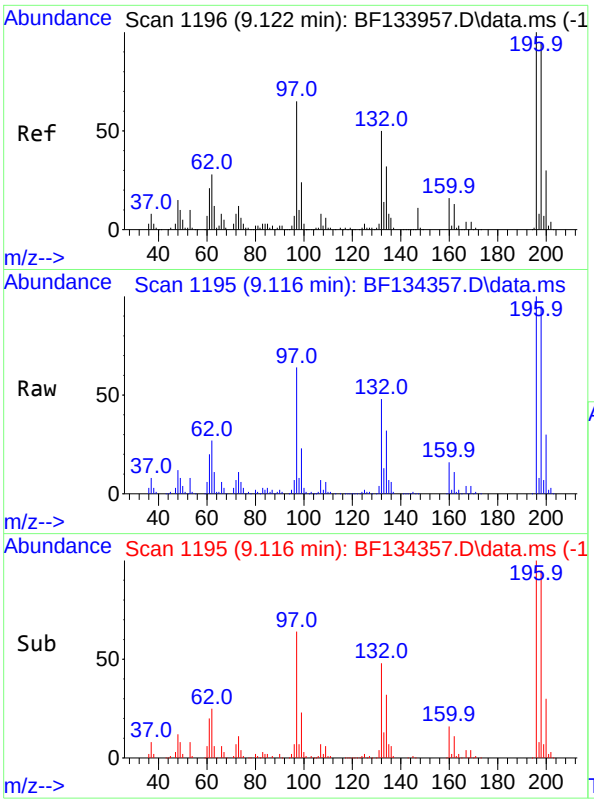


#42
2,4,6-Tribromophenol
Concen: 126.820 ng
RT: 10.681 min Scan# 1461
Delta R.T. 0.000 min
Lab File: BF134357.D
Acq: 19 Jul 2023 14:07

Tgt Ion:330 Resp: 234611

Ion	Ratio	Lower	Upper
330	100		
332	98.1	77.0	115.6
141	30.6	26.3	39.5

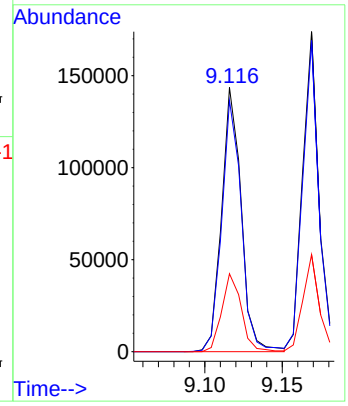




#43
2,4,6-Trichlorophenol
Concen: 42.335 ng
RT: 9.116 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF134357.D
Acq: 19 Jul 2023 14:07

Tgt Ion:196 Resp: 12598

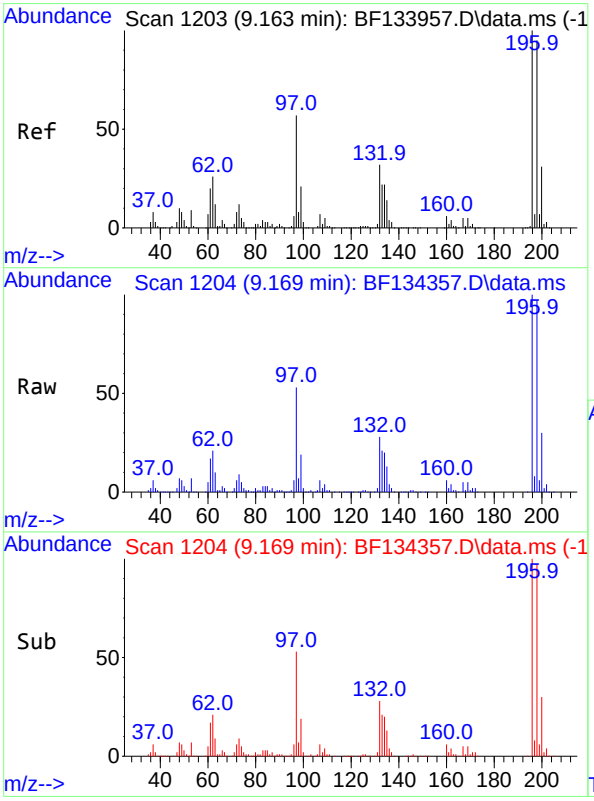
Ion	Ratio	Lower	Upper
196	100		
198	95.1	75.6	113.4
200	29.5	24.4	36.6



Instrument :
BNA_F
ClientSampleId :
PB154258BS

Manual Integrations
APPROVED

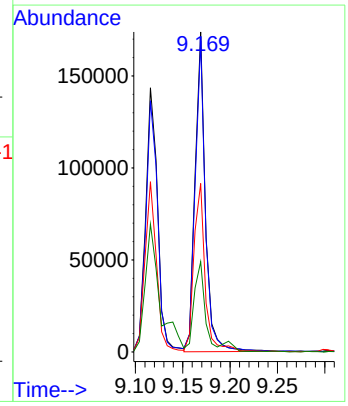
Reviewed By :Yogesh Patel 07/20/2023
Supervised By :mohammad ahmed 07/20/2023

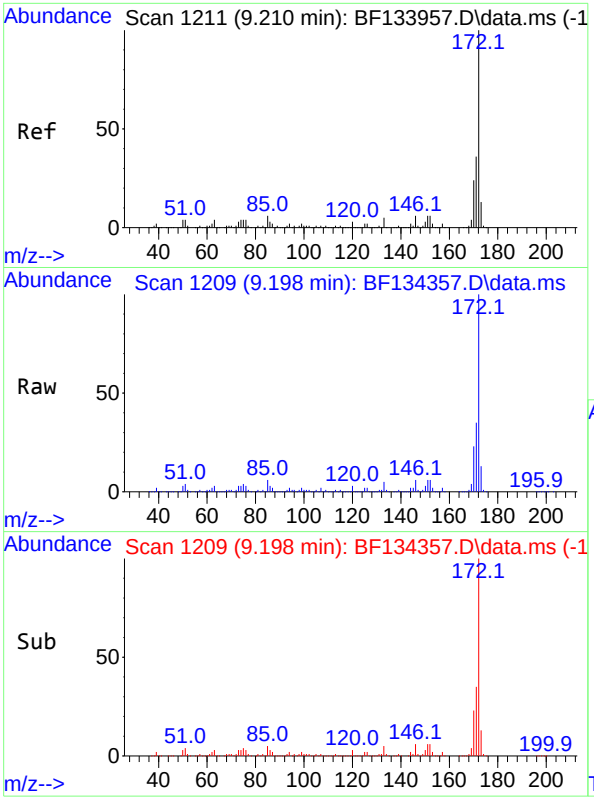


#44
2,4,5-Trichlorophenol
Concen: 37.754 ng
RT: 9.169 min Scan# 1204
Delta R.T. 0.006 min
Lab File: BF134357.D
Acq: 19 Jul 2023 14:07

Tgt Ion:196 Resp: 132150

Ion	Ratio	Lower	Upper
196	100		
198	97.2	75.7	113.5
97	52.6	45.8	68.6
132	28.2	26.2	39.4

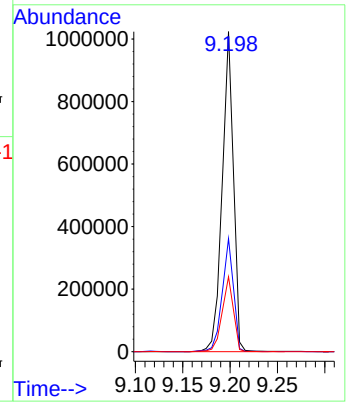




#45
2-Fluorobiphenyl
Concen: 83.826 ng
RT: 9.198 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF134357.D
Acq: 19 Jul 2023 14:07

Tgt Ion:172 Resp: 85071

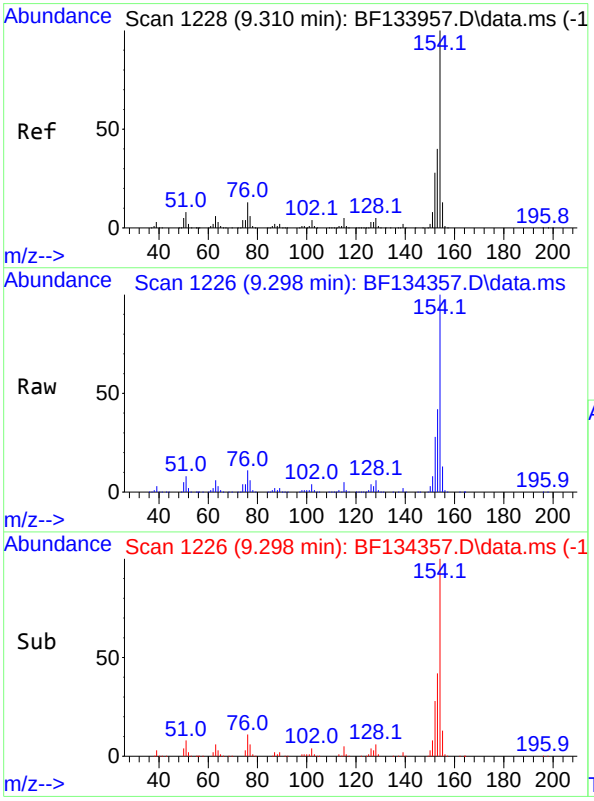
Ion	Ratio	Lower	Upper
172	100		
171	35.4	28.6	43.0
170	23.4	19.4	29.0



Instrument :
BNA_F
ClientSampleId :
PB154258BS

Manual Integrations
APPROVED

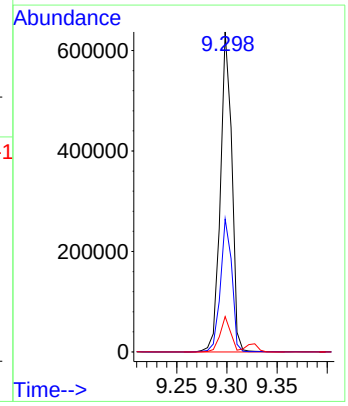
Reviewed By :Yogesh Patel 07/20/2023
Supervised By :mohammad ahmed 07/20/2023

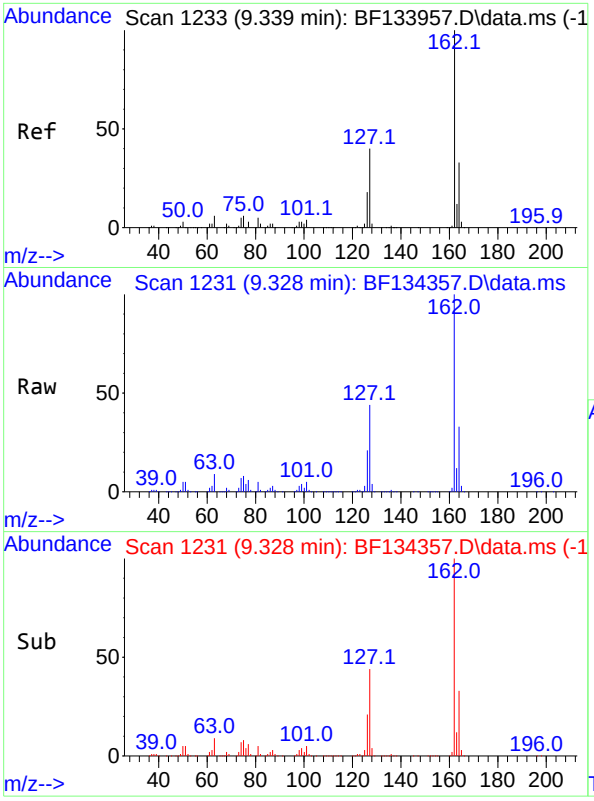


#46
1,1'-Biphenyl
Concen: 42.536 ng
RT: 9.298 min Scan# 1226
Delta R.T. -0.006 min
Lab File: BF134357.D
Acq: 19 Jul 2023 14:07

Tgt Ion:154 Resp: 503444

Ion	Ratio	Lower	Upper
154	100		
153	41.5	19.8	59.8
76	11.1	0.0	32.9

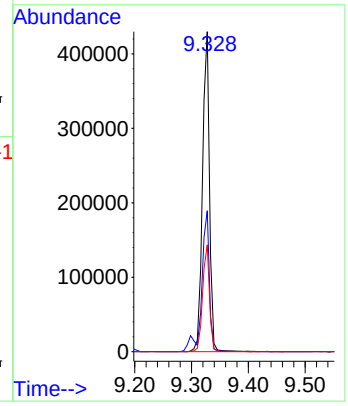




#47
2-Chloronaphthalene
Concen: 42.894 ng
RT: 9.328 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134357.D
Acq: 19 Jul 2023 14:07

Tgt Ion:162 Resp: 37145

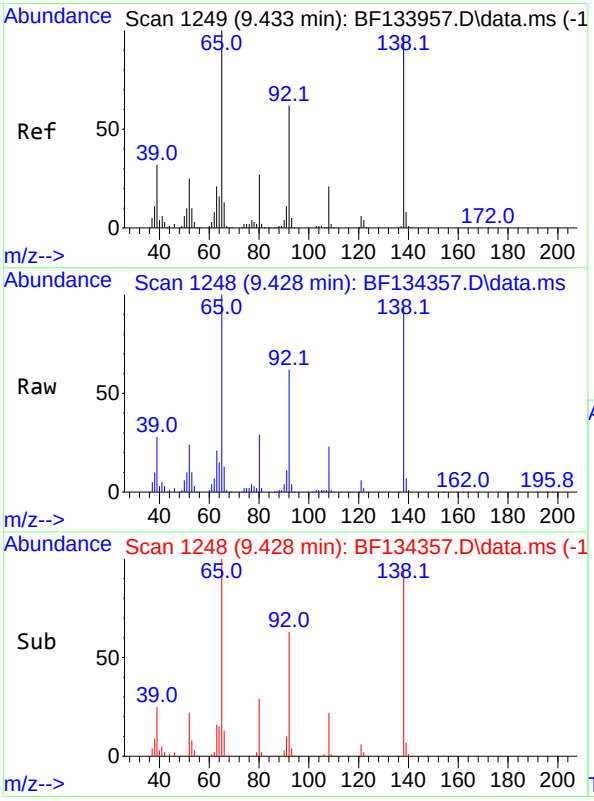
Ion	Ratio	Lower	Upper
162	100		
127	44.1	32.9	49.3
164	33.4	26.1	39.1



Instrument :
BNA_F
ClientSampleId :
PB154258BS

Manual Integrations
APPROVED

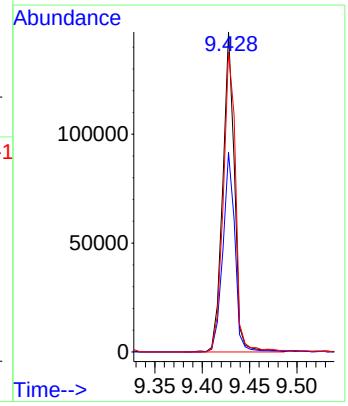
Reviewed By :Yogesh Patel 07/20/2023
Supervised By :mohammad ahmed 07/20/2023

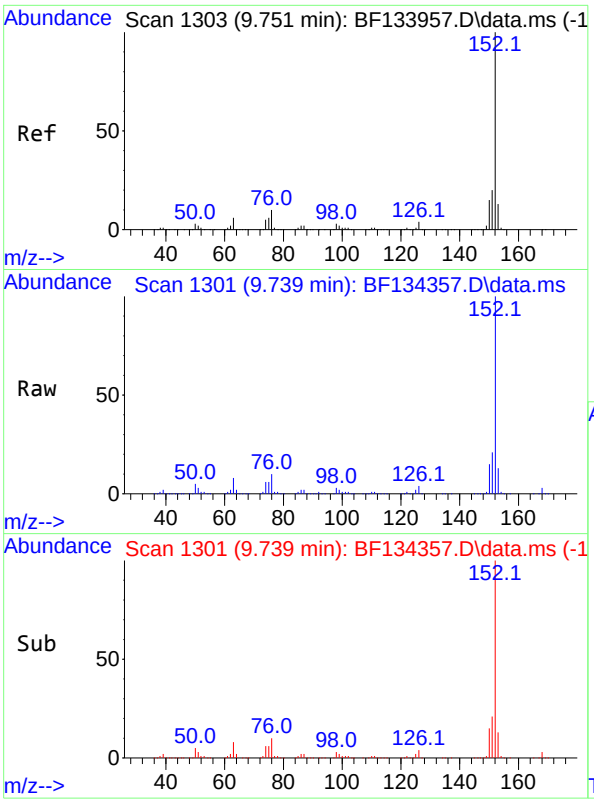


#48
2-Nitroaniline
Concen: 40.083 ng
RT: 9.428 min Scan# 1248
Delta R.T. 0.000 min
Lab File: BF134357.D
Acq: 19 Jul 2023 14:07

Tgt Ion: 65 Resp: 126504

Ion	Ratio	Lower	Upper
65	100		
92	62.3	49.5	74.3
138	93.8	78.0	117.0

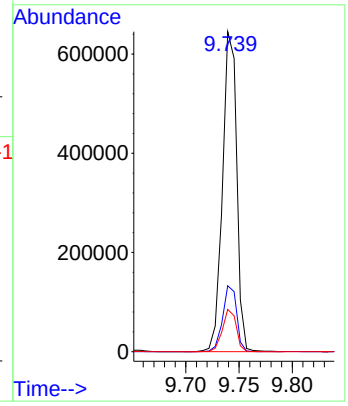




#49
Acenaphthylene
Concen: 40.328 ng
RT: 9.739 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF134357.D
Acq: 19 Jul 2023 14:07

Tgt Ion:152 Resp: 59658

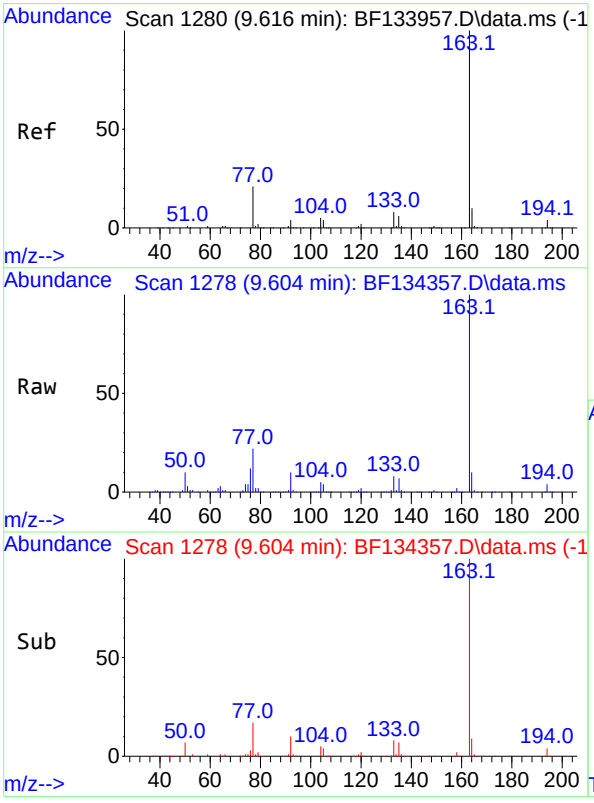
Ion	Ratio	Lower	Upper
152	100		
151	20.6	16.2	24.2
153	13.2	10.8	16.2



Instrument :
BNA_F
ClientSampleId :
PB154258BS

Manual Integrations
APPROVED

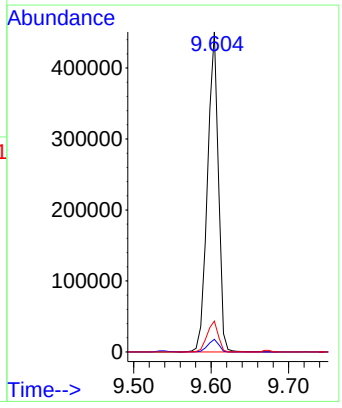
Reviewed By :Yogesh Patel 07/20/2023
Supervised By :mohammad ahmed 07/20/2023

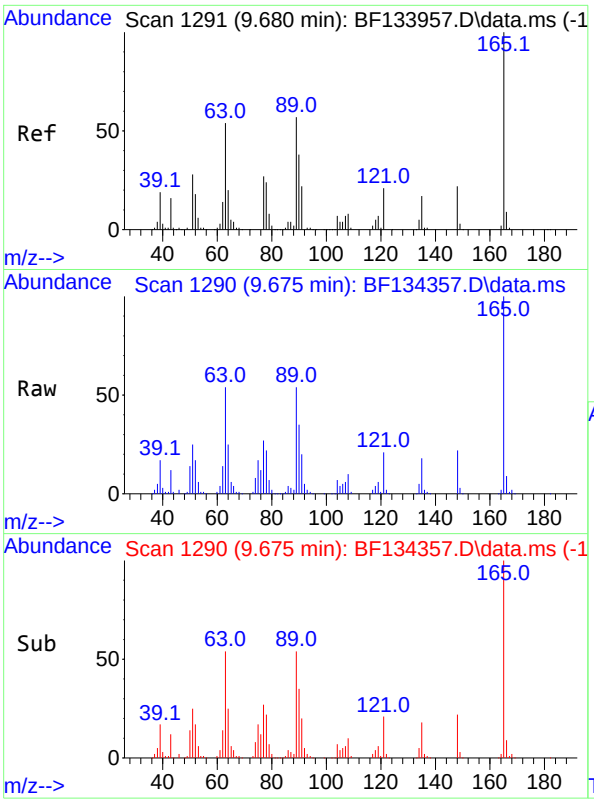


#50
Dimethylphthalate
Concen: 41.097 ng
RT: 9.604 min Scan# 1278
Delta R.T. 0.000 min
Lab File: BF134357.D
Acq: 19 Jul 2023 14:07

Tgt Ion:163 Resp: 440172

Ion	Ratio	Lower	Upper
163	100		
194	4.0	3.0	4.6
164	9.7	8.2	12.2





#51
2,6-Dinitrotoluene
Concen: 42.111 ng
RT: 9.675 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134357.D
Acq: 19 Jul 2023 14:07

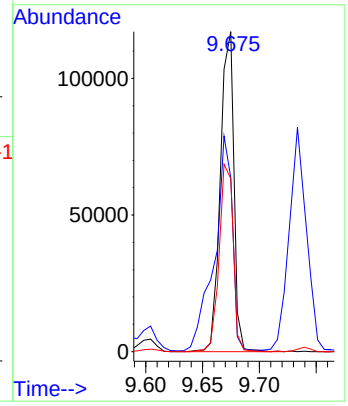
Tgt Ion:165 Resp: 9714

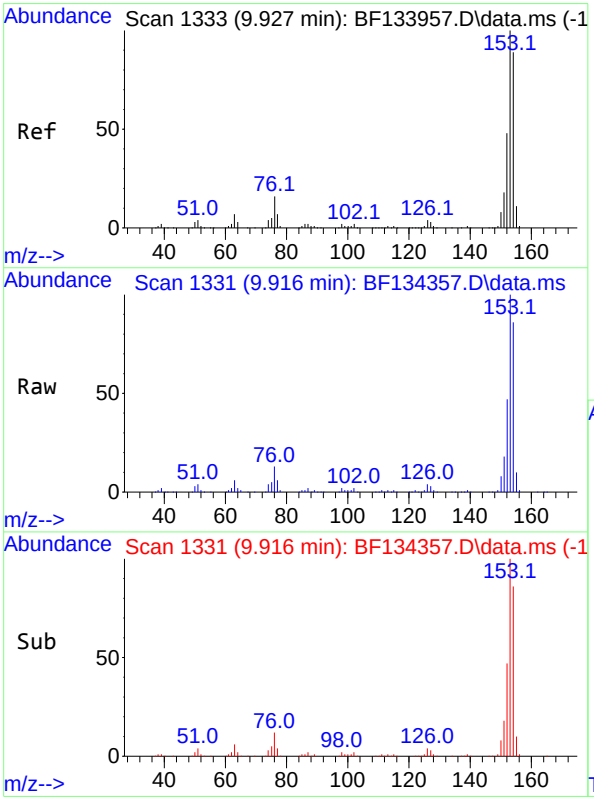
Ion	Ratio	Lower	Upper
165	100		
63	54.4	48.5	72.7
89	54.1	45.5	68.3

Instrument :
BNA_F
ClientSampleId :
PB154258BS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/20/2023
Supervised By :mohammad ahmed 07/20/2023

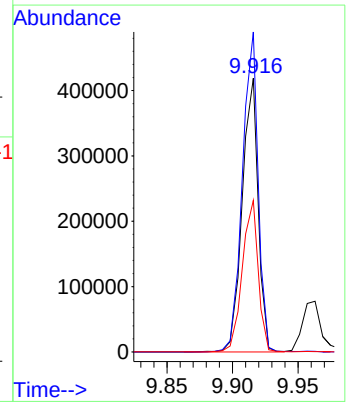


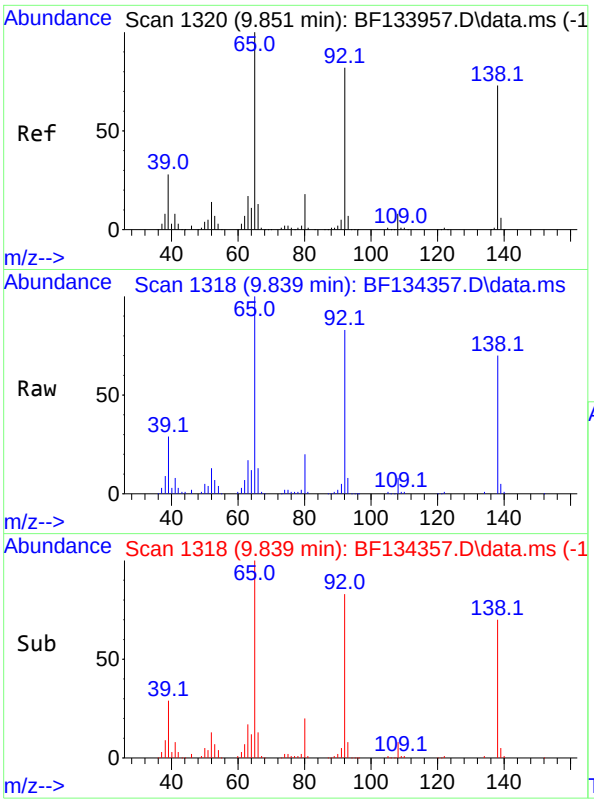


#52
Acenaphthene
Concen: 41.478 ng
RT: 9.916 min Scan# 1331
Delta R.T. 0.000 min
Lab File: BF134357.D
Acq: 19 Jul 2023 14:07

Tgt Ion:154 Resp: 356039

Ion	Ratio	Lower	Upper
154	100		
153	116.9	89.4	134.2
152	55.3	42.8	64.2

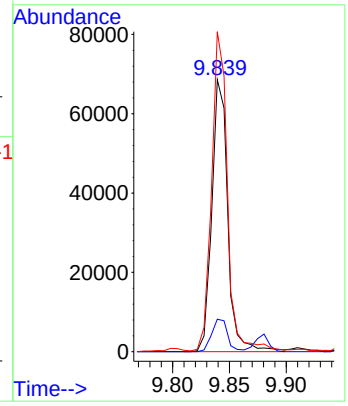




#53
3-Nitroaniline
Concen: 24.103 ng
RT: 9.839 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF134357.D
Acq: 19 Jul 2023 14:07

Tgt Ion:138 Resp: 6670

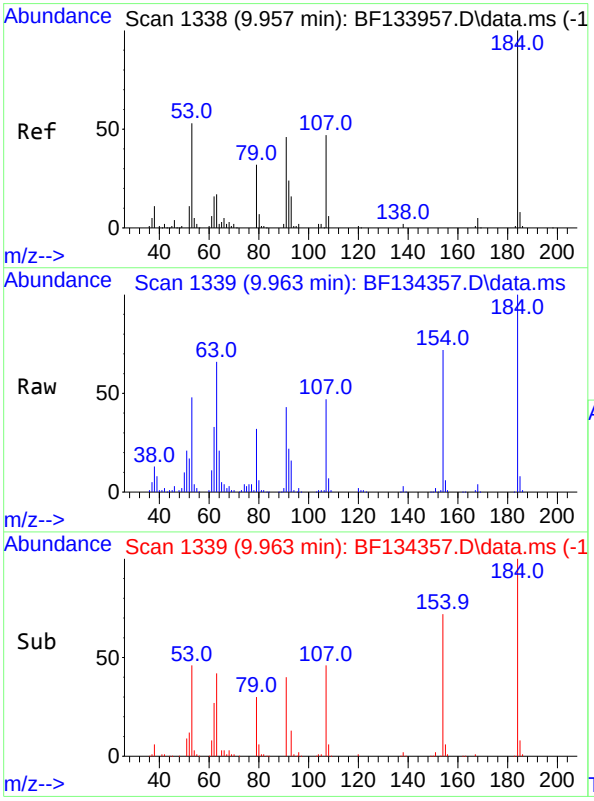
Ion	Ratio	Lower	Upper
138	100		
108	12.0	8.4	12.6
92	117.6	90.1	135.1



Instrument :
BNA_F
ClientSampleId :
PB154258BS

Manual Integrations
APPROVED

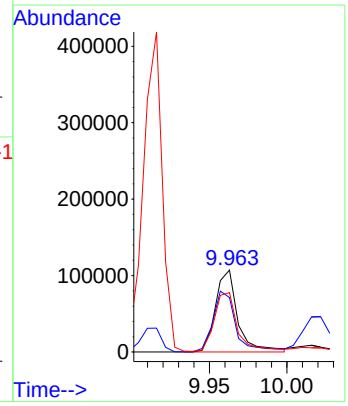
Reviewed By :Yogesh Patel 07/20/2023
Supervised By :mohammad ahmed 07/20/2023

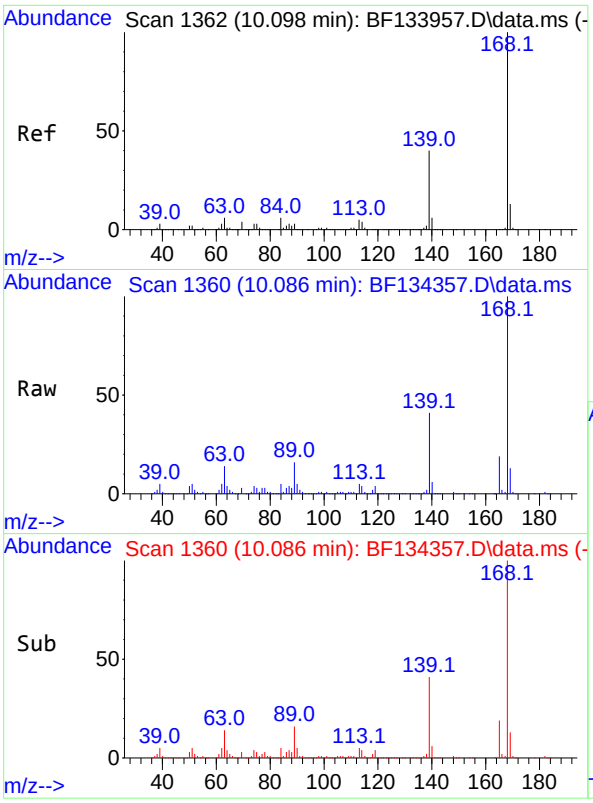


#54
2,4-Dinitrophenol
Concen: 80.448 ng
RT: 9.963 min Scan# 1339
Delta R.T. 0.006 min
Lab File: BF134357.D
Acq: 19 Jul 2023 14:07

Tgt Ion:184 Resp: 107206

Ion	Ratio	Lower	Upper
184	100		
63	66.4	56.9	85.3
154	72.4	55.4	83.0

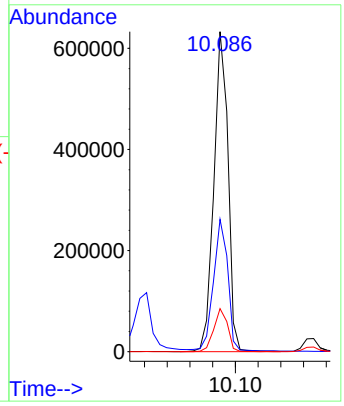




#55
Dibenzofuran
Concen: 40.837 ng
RT: 10.086 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF134357.D
Acq: 19 Jul 2023 14:07

Tgt Ion:168 Resp: 54783

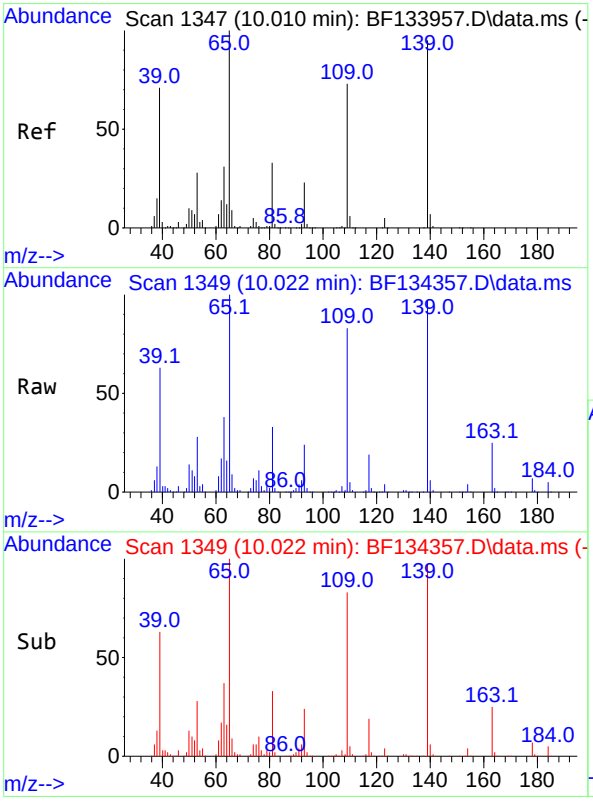
Ion	Ratio	Lower	Upper
168	100		
139	41.4	32.0	48.0
169	13.5	10.6	16.0



Instrument :
BNA_F
ClientSampleId :
PB154258BS

Manual Integrations
APPROVED

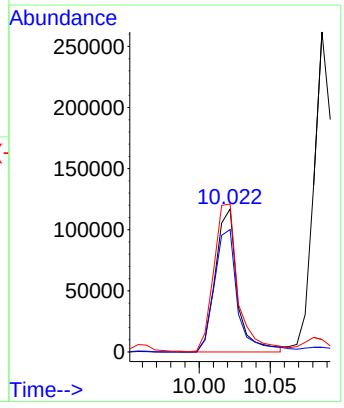
Reviewed By :Yogesh Patel 07/20/2023
Supervised By :mohammad ahmed 07/20/2023

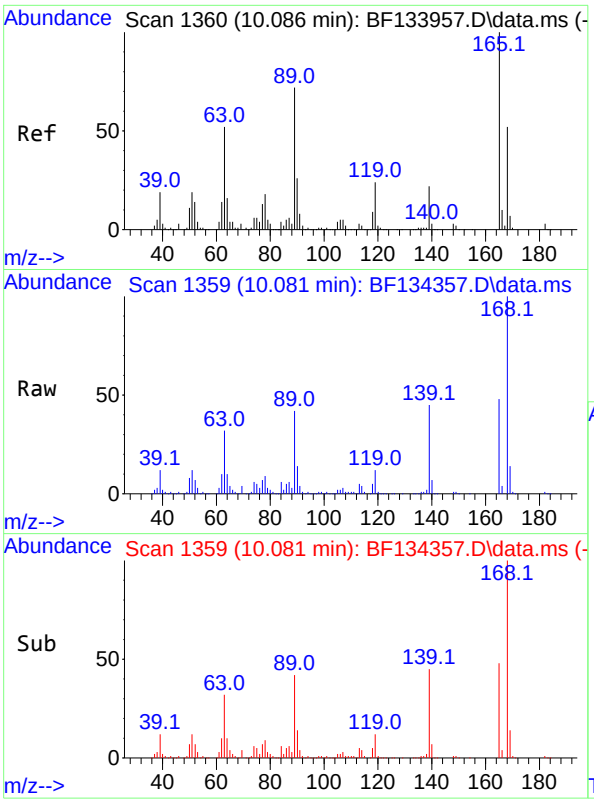


#56
4-Nitrophenol
Concen: 65.250 ng
RT: 10.022 min Scan# 1349
Delta R.T. 0.012 min
Lab File: BF134357.D
Acq: 19 Jul 2023 14:07

Tgt Ion:139 Resp: 126313

Ion	Ratio	Lower	Upper
139	100		
109	85.7	56.8	96.8
65	103.5	86.1	126.1

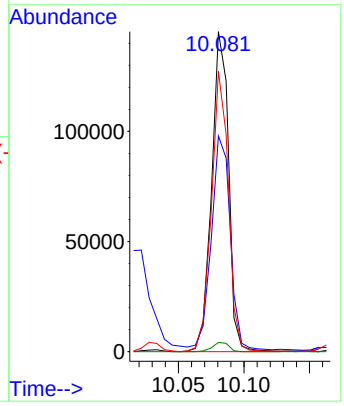




#57
2,4-Dinitrotoluene
Concen: 42.909 ng
RT: 10.081 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134357.D
Acq: 19 Jul 2023 14:07

Tgt Ion:165 Resp: 13072

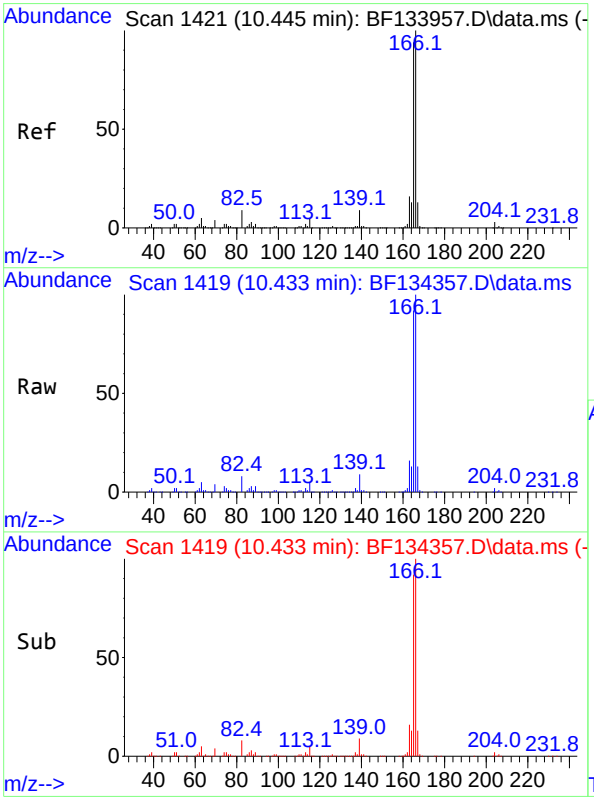
Ion	Ratio	Lower	Upper
165	100		
63	67.4	42.2	63.2#
89	87.6	57.4	86.2#
182	2.9	2.2	3.4



Instrument :
BNA_F
ClientSampleId :
PB154258BS

Manual Integrations
APPROVED

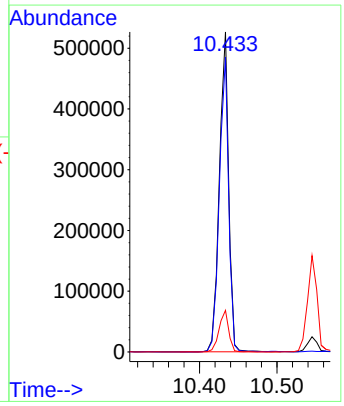
Reviewed By :Yogesh Patel 07/20/2023
Supervised By :mohammad ahmed 07/20/2023

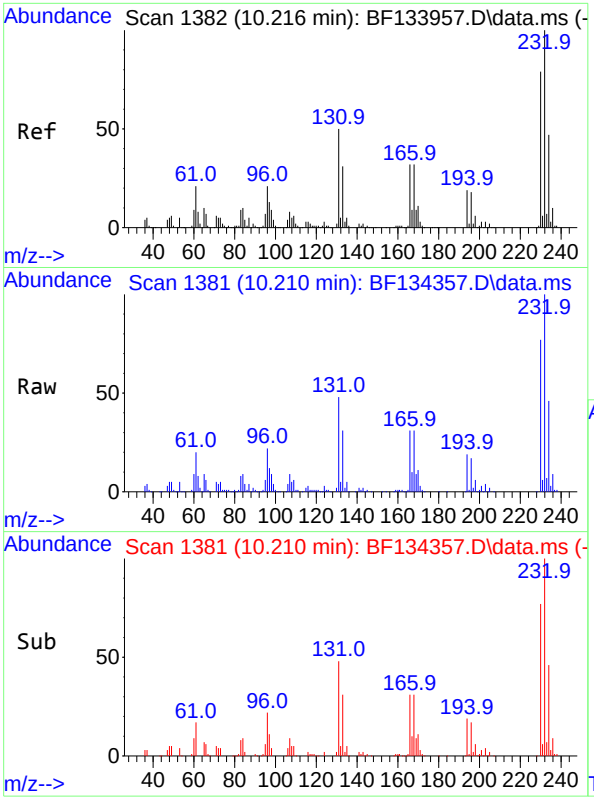


#58
Fluorene
Concen: 42.079 ng
RT: 10.433 min Scan# 1419
Delta R.T. 0.000 min
Lab File: BF134357.D
Acq: 19 Jul 2023 14:07

Tgt Ion:166 Resp: 439165

Ion	Ratio	Lower	Upper
166	100		
165	92.0	75.0	112.4
167	13.0	10.6	15.8

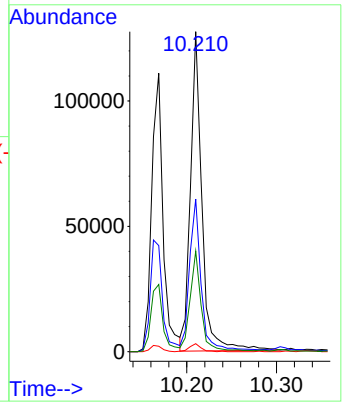




#59
2,3,4,6-Tetrachlorophenol
Concen: 41.023 ng
RT: 10.210 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134357.D
Acq: 19 Jul 2023 14:07

Tgt Ion:232 Resp: 11326

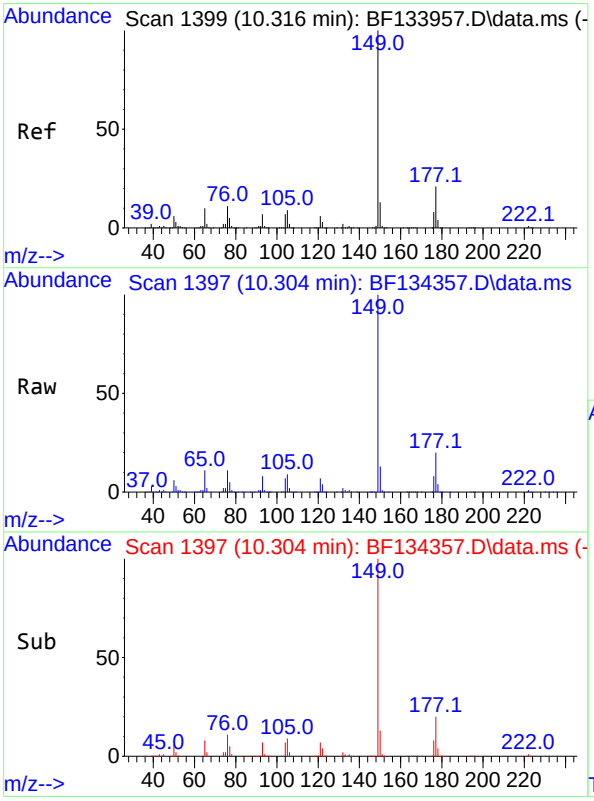
Ion	Ratio	Lower	Upper
232	100		
131	48.9	39.3	58.9
130	2.6	1.8	2.6
166	29.7	25.0	37.6



Instrument :
BNA_F
ClientSampleId :
PB154258BS

Manual Integrations
APPROVED

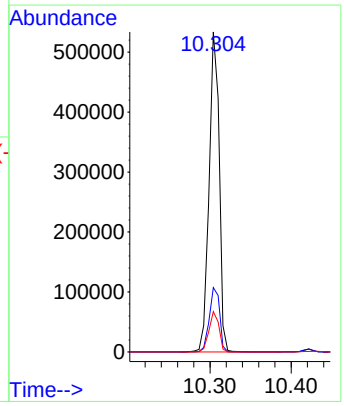
Reviewed By :Yogesh Patel 07/20/2023
Supervised By :mohammad ahmed 07/20/2023

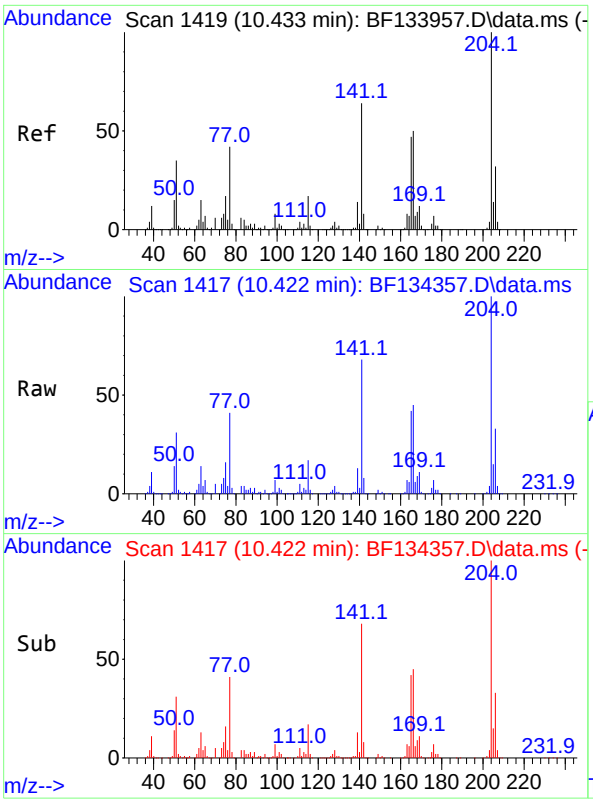


#60
Diethylphthalate
Concen: 41.200 ng
RT: 10.304 min Scan# 1397
Delta R.T. 0.000 min
Lab File: BF134357.D
Acq: 19 Jul 2023 14:07

Tgt Ion:149 Resp: 459742

Ion	Ratio	Lower	Upper
149	100		
177	20.1	17.0	25.6
150	12.6	10.2	15.2





#61
4-Chlorophenyl-phenylether
Concen: 41.983 ng
RT: 10.422 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF134357.D
Acq: 19 Jul 2023 14:07

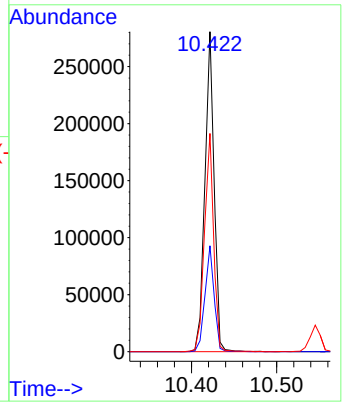
Tgt Ion:204 Resp: 21116

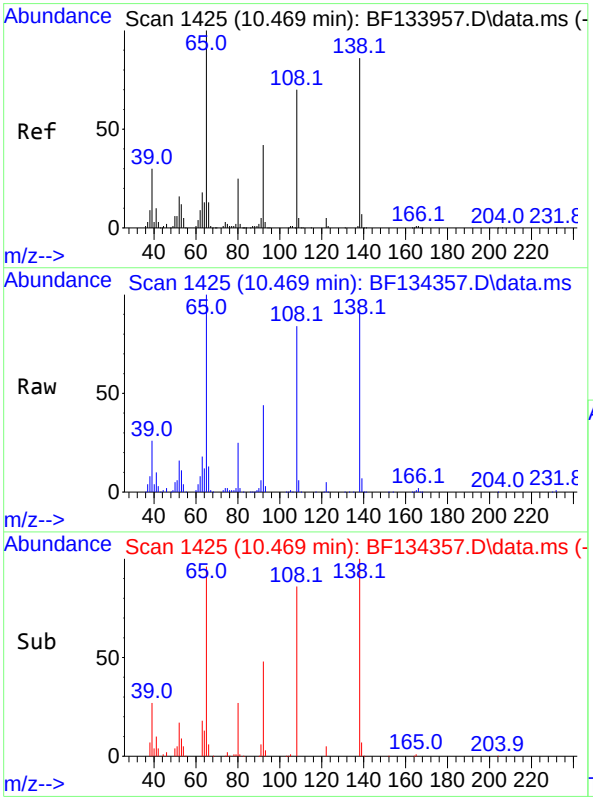
Ion	Ratio	Lower	Upper
204	100		
206	33.1	25.8	38.6
141	68.2	51.5	77.3

Instrument :
BNA_F
ClientSampleId :
PB154258BS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/20/2023
Supervised By :mohammad ahmed 07/20/2023

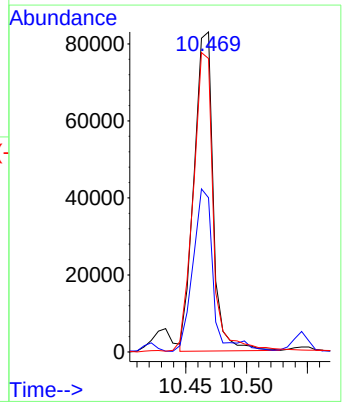


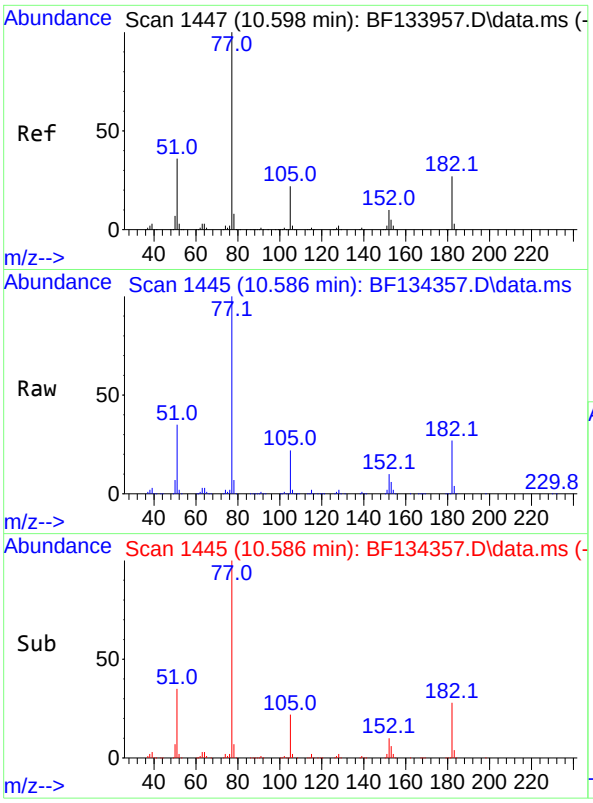


#62
4-Nitroaniline
Concen: 32.642 ng
RT: 10.469 min Scan# 1425
Delta R.T. 0.006 min
Lab File: BF134357.D
Acq: 19 Jul 2023 14:07

Tgt Ion:138 Resp: 91041

Ion	Ratio	Lower	Upper
138	100		
92	48.2	29.7	69.7
108	91.7	62.1	102.1





#63
Azobenzene
Concen: 38.885 ng
RT: 10.586 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF134357.D
Acq: 19 Jul 2023 14:07

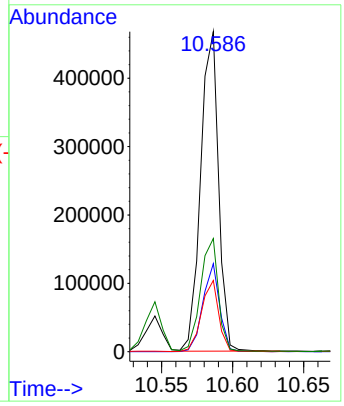
Instrument :
BNA_F
ClientSampleId :
PB154258BS

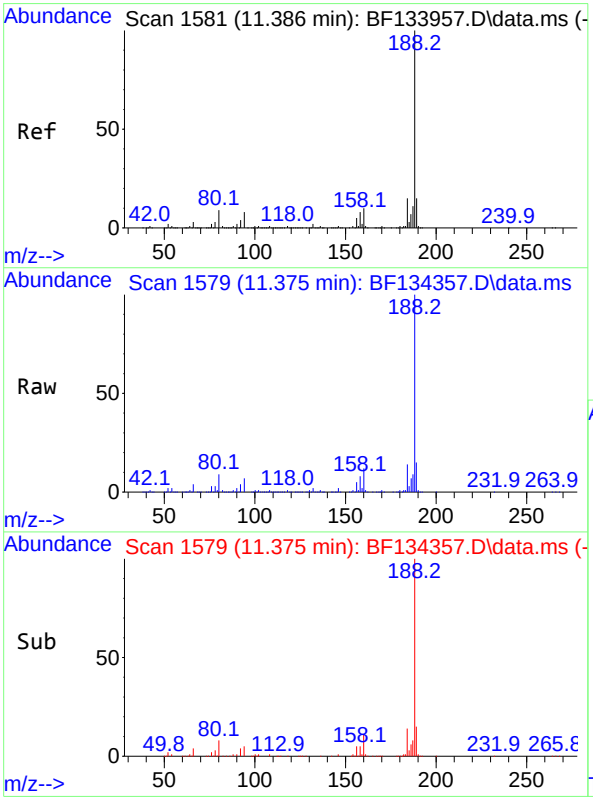
Tgt Ion: 77 Resp: 41043

Ion	Ratio	Lower	Upper
77	100		
182	27.5	6.8	46.8
105	22.3	2.3	42.3
51	35.3	16.2	56.2

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/20/2023
Supervised By :mohammad ahmed 07/20/2023

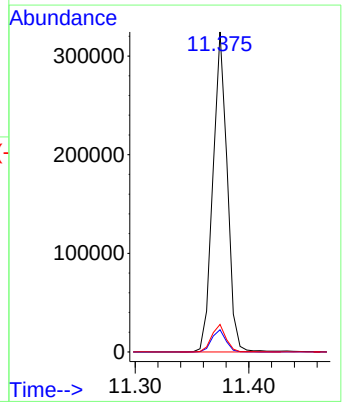


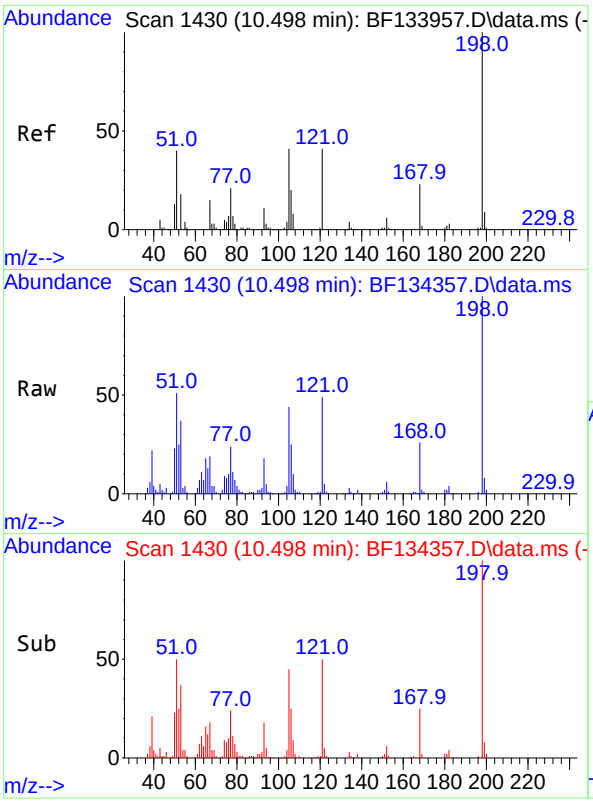


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.375 min Scan# 1579
Delta R.T. 0.000 min
Lab File: BF134357.D
Acq: 19 Jul 2023 14:07

Tgt Ion:188 Resp: 283533

Ion	Ratio	Lower	Upper
188	100		
94	7.0	6.4	9.6
80	8.6	7.3	10.9

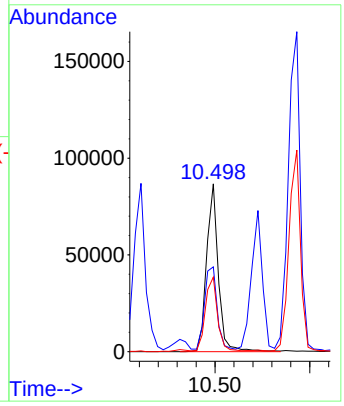




#65
4,6-Dinitro-2-methylphenol
Concen: 48.002 ng
RT: 10.498 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF134357.D
Acq: 19 Jul 2023 14:07

Tgt Ion:198 Resp: 7420

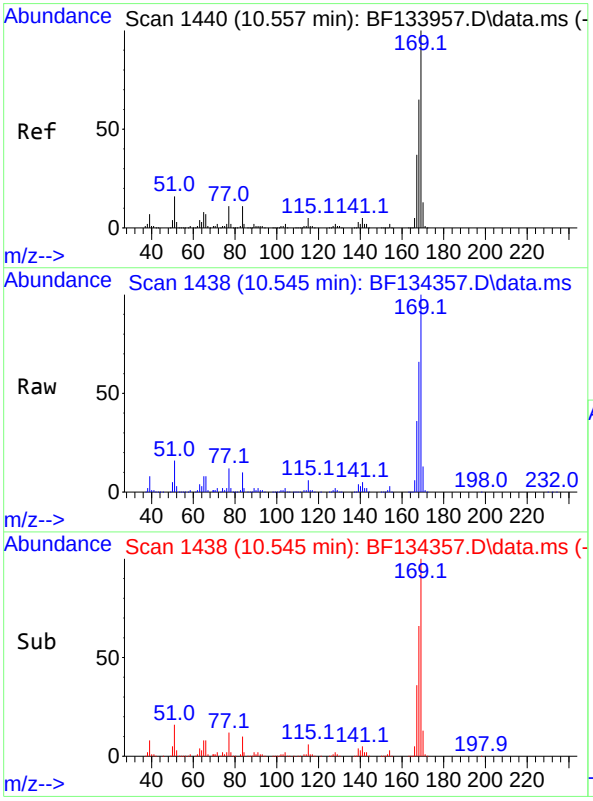
Ion	Ratio	Lower	Upper
198	100		
51	50.6	29.3	69.3
105	44.4	22.4	62.4



Instrument :
BNA_F
ClientSampleId :
PB154258BS

Manual Integrations
APPROVED

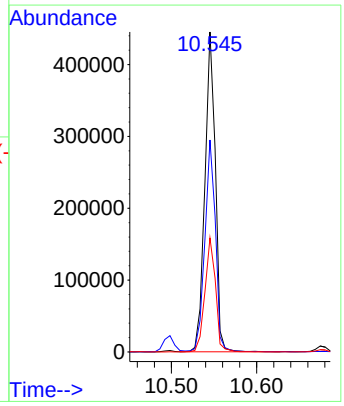
Reviewed By :Yogesh Patel 07/20/2023
Supervised By :mohammad ahmed 07/20/2023

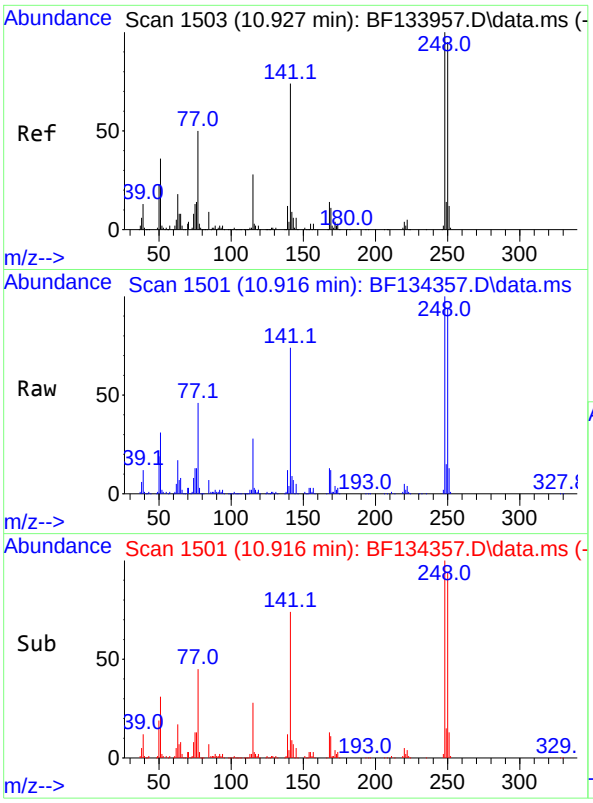


#66
n-Nitrosodiphenylamine
Concen: 41.840 ng
RT: 10.545 min Scan# 1438
Delta R.T. 0.000 min
Lab File: BF134357.D
Acq: 19 Jul 2023 14:07

Tgt Ion:169 Resp: 379025

Ion	Ratio	Lower	Upper
169	100		
168	66.3	52.3	78.5
167	35.6	29.4	44.0

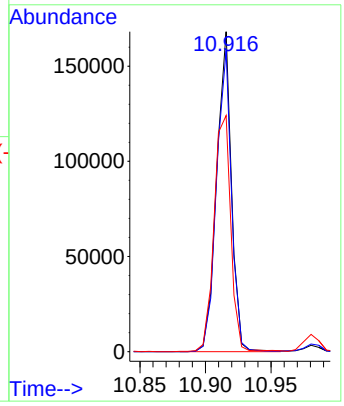




#67
4-Bromophenyl-phenylether
Concen: 43.668 ng
RT: 10.916 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134357.D
Acq: 19 Jul 2023 14:07

Tgt Ion:248 Resp: 13159

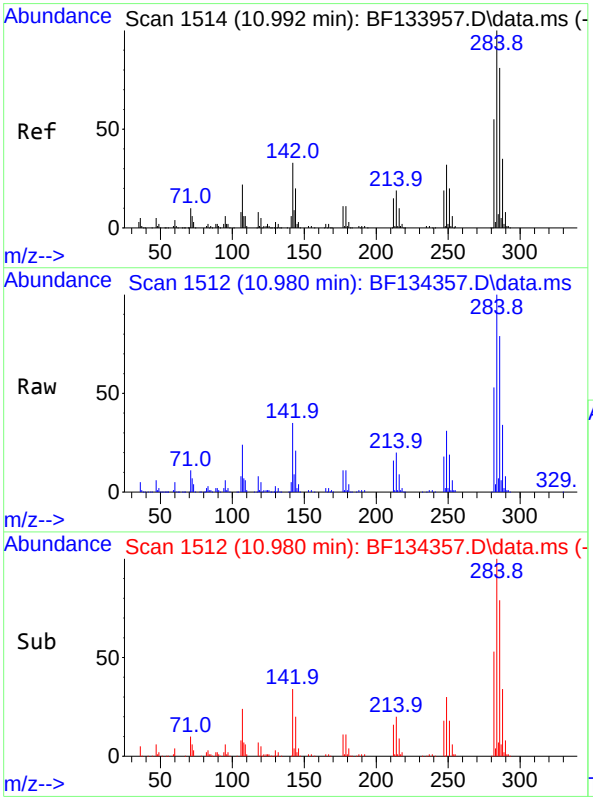
Ion	Ratio	Lower	Upper
248	100		
250	94.0	76.2	114.4
141	73.8	59.0	88.4



Instrument :
BNA_F
ClientSampleId :
PB154258BS

Manual Integrations
APPROVED

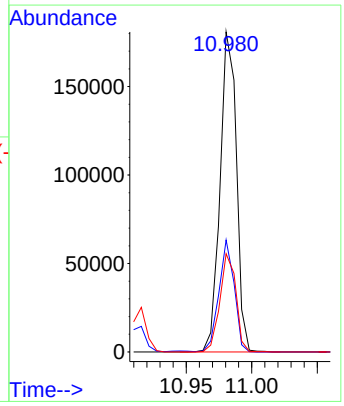
Reviewed By :Yogesh Patel 07/20/2023
Supervised By :mohammad ahmed 07/20/2023

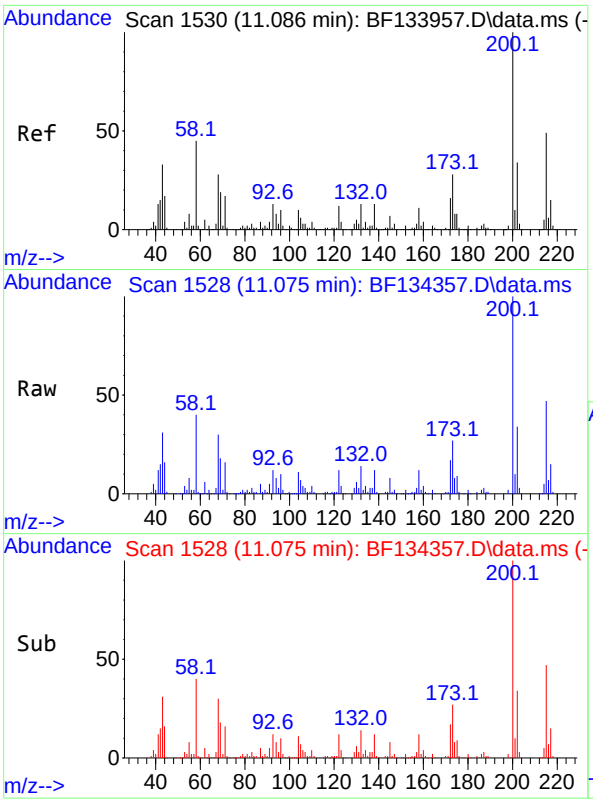


#68
Hexachlorobenzene
Concen: 48.907 ng
RT: 10.980 min Scan# 1512
Delta R.T. -0.006 min
Lab File: BF134357.D
Acq: 19 Jul 2023 14:07

Tgt Ion:284 Resp: 156491

Ion	Ratio	Lower	Upper
284	100		
142	35.0	26.6	40.0
249	30.7	25.5	38.3

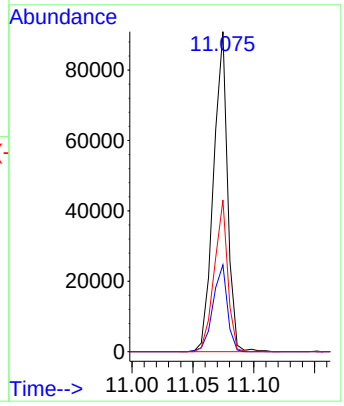




#69
Atrazine
Concen: 29.138 ng
RT: 11.075 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134357.D
Acq: 19 Jul 2023 14:07

Tgt Ion:200 Resp: 7301

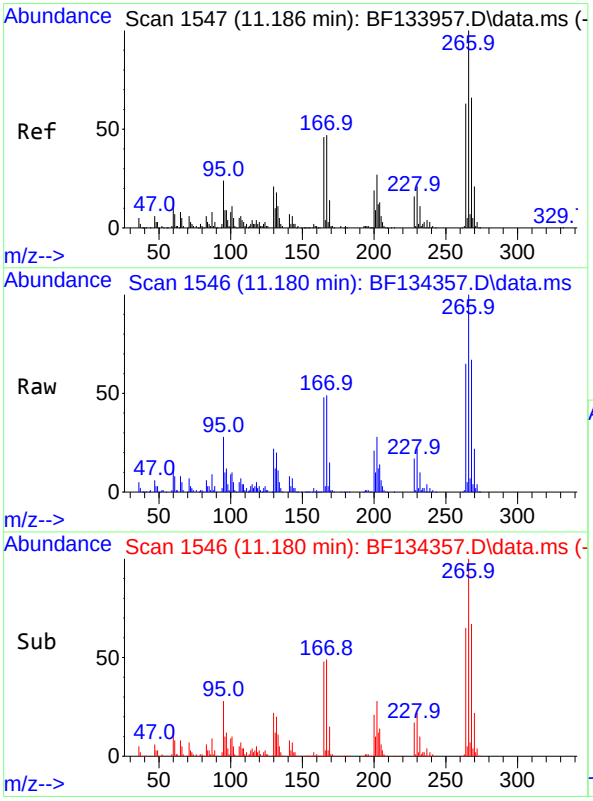
Ion	Ratio	Lower	Upper
200	100		
173	27.2	8.0	48.0
215	47.3	29.3	69.3



Instrument :
BNA_F
ClientSampleId :
PB154258BS

Manual Integrations
APPROVED

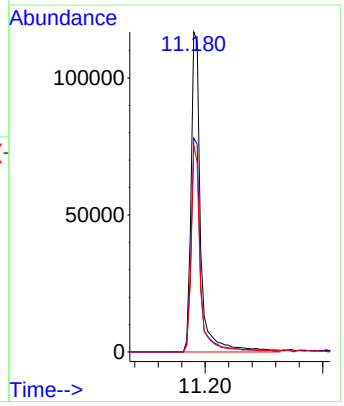
Reviewed By :Yogesh Patel 07/20/2023
Supervised By :mohammad ahmed 07/20/2023

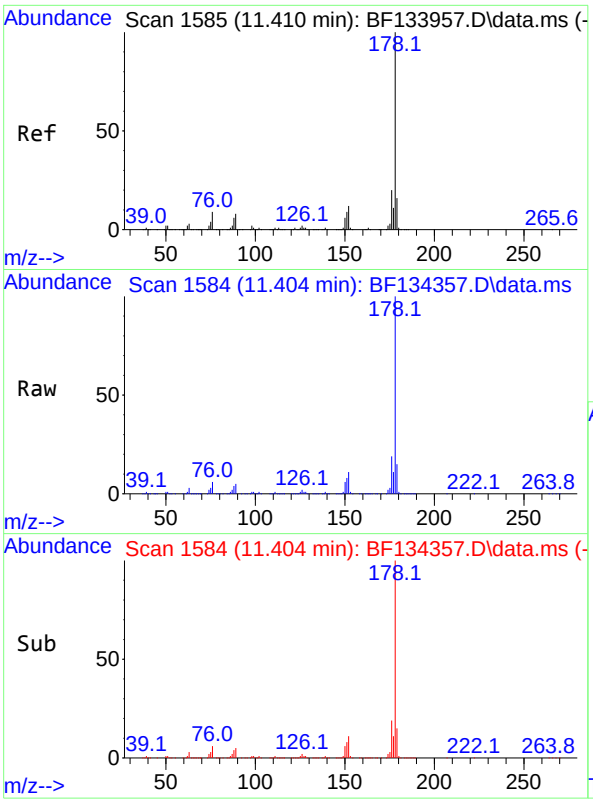


#70
Pentachlorophenol
Concen: 69.002 ng
RT: 11.180 min Scan# 1546
Delta R.T. 0.000 min
Lab File: BF134357.D
Acq: 19 Jul 2023 14:07

Tgt Ion:266 Resp: 132014

Ion	Ratio	Lower	Upper
266	100		
268	66.8	52.6	79.0
264	64.6	50.6	76.0

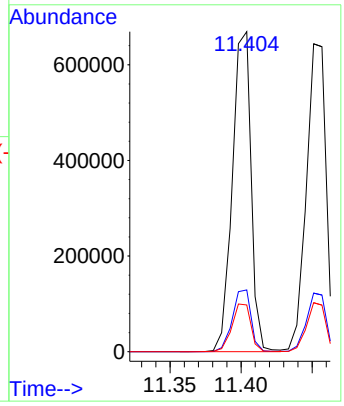




#71
Phenanthrene
Concen: 43.174 ng
RT: 11.404 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134357.D
Acq: 19 Jul 2023 14:07

Tgt Ion:178 Resp: 61624

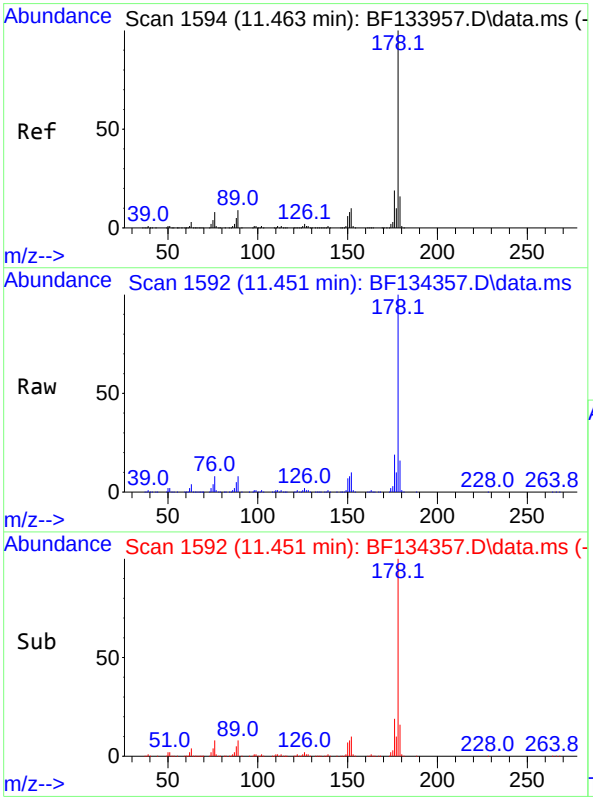
Ion	Ratio	Lower	Upper
178	100		
176	19.3	16.0	24.0
179	14.6	12.4	18.6



Instrument :
BNA_F
ClientSampleId :
PB154258BS

Manual Integrations
APPROVED

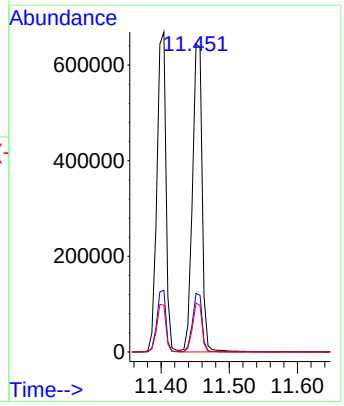
Reviewed By :Yogesh Patel 07/20/2023
Supervised By :mohammad ahmed 07/20/2023

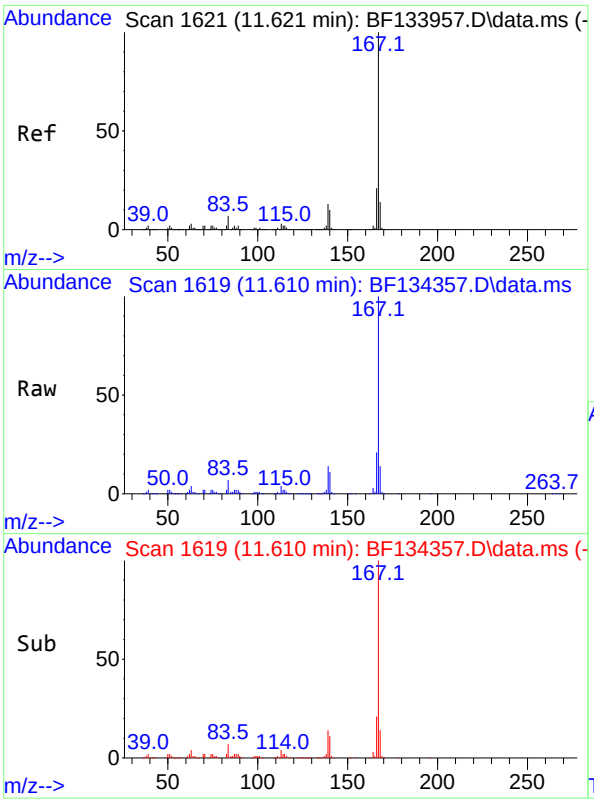


#72
Anthracene
Concen: 42.459 ng
RT: 11.451 min Scan# 1592
Delta R.T. -0.006 min
Lab File: BF134357.D
Acq: 19 Jul 2023 14:07

Tgt Ion:178 Resp: 630358

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.3	22.9
179	15.9	12.4	18.6

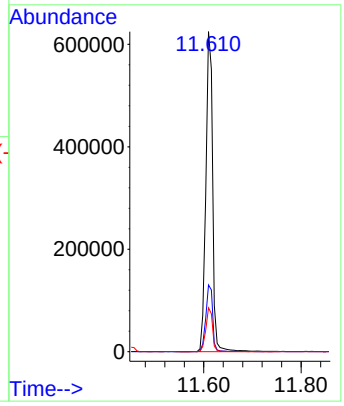




#73
Carbazole
Concen: 44.337 ng
RT: 11.610 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF134357.D
Acq: 19 Jul 2023 14:07

Tgt Ion:167 Resp: 60248

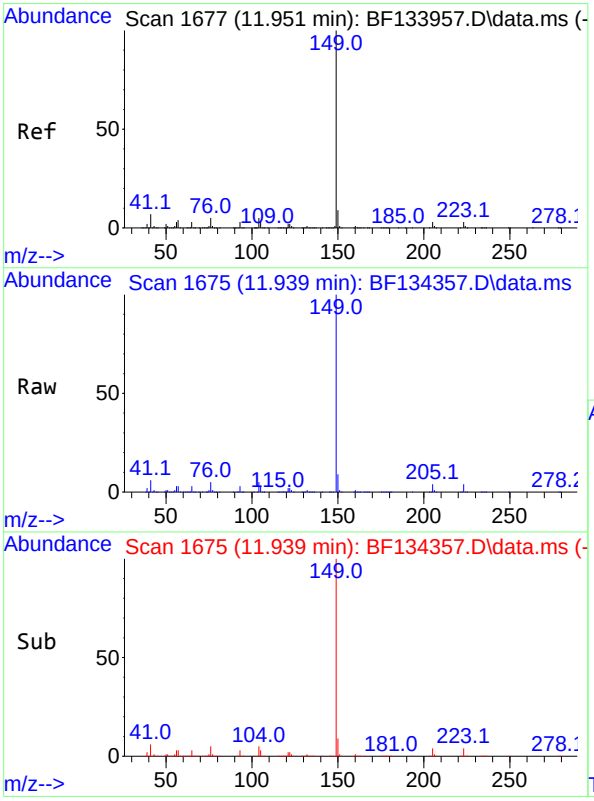
Ion	Ratio	Lower	Upper
167	100		
166	20.9	17.0	25.6
139	13.7	10.4	15.6



Instrument :
BNA_F
ClientSampleId :
PB154258BS

Manual Integrations
APPROVED

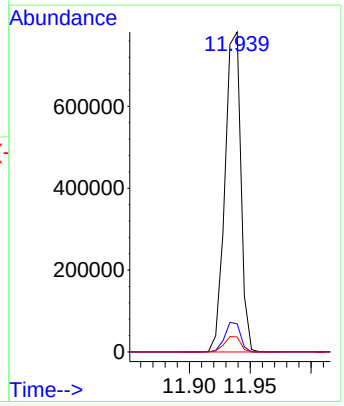
Reviewed By :Yogesh Patel 07/20/2023
Supervised By :mohammad ahmed 07/20/2023

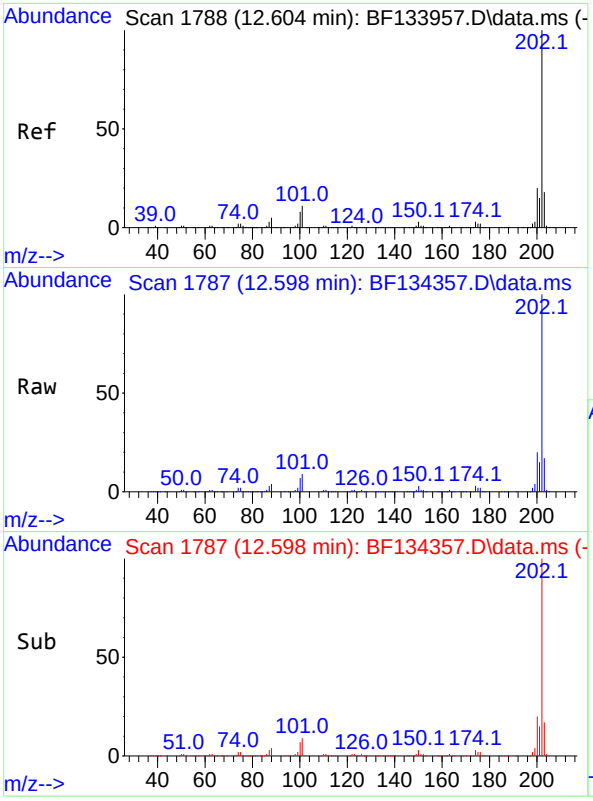


#74
Di-n-butylphthalate
Concen: 43.909 ng
RT: 11.939 min Scan# 1675
Delta R.T. 0.000 min
Lab File: BF134357.D
Acq: 19 Jul 2023 14:07

Tgt Ion:149 Resp: 709552

Ion	Ratio	Lower	Upper
149	100		
150	8.8	7.1	10.7
104	4.7	4.0	6.0





#75
Fluoranthene
Concen: 44.373 ng
RT: 12.598 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134357.D
Acq: 19 Jul 2023 14:07

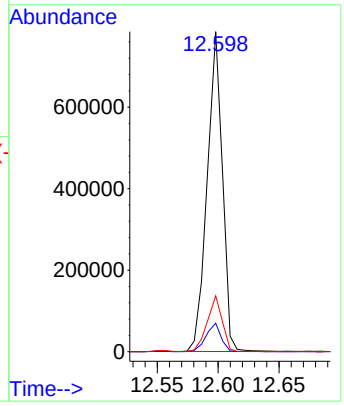
Tgt Ion:202 Resp: 68472

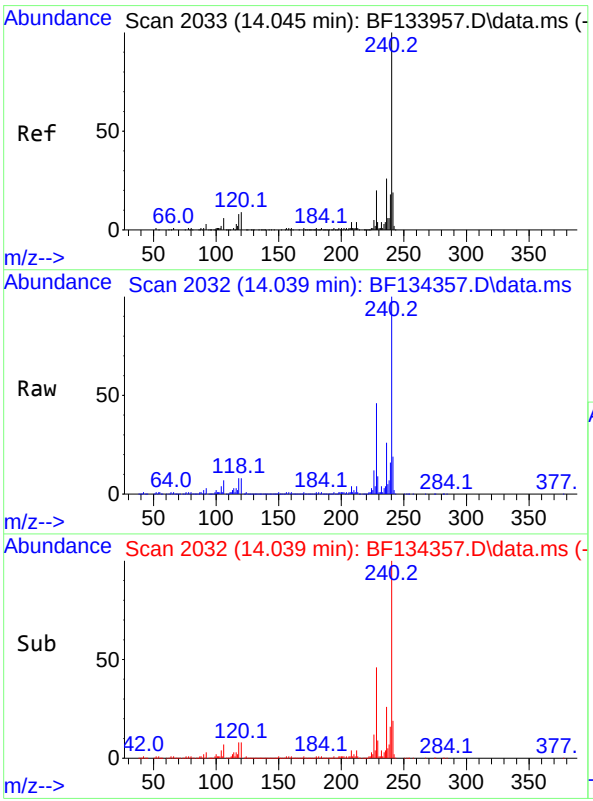
Ion	Ratio	Lower	Upper
202	100		
101	8.9	0.0	31.0
203	17.5	0.0	37.6

Instrument :
BNA_F
ClientSampleId :
PB154258BS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/20/2023
Supervised By :mohammad ahmed 07/20/2023

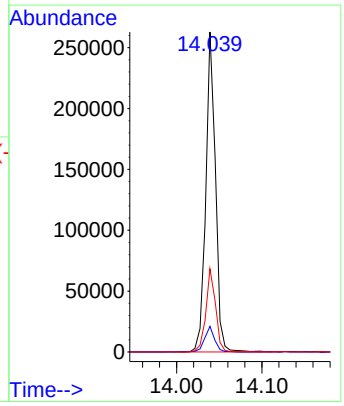


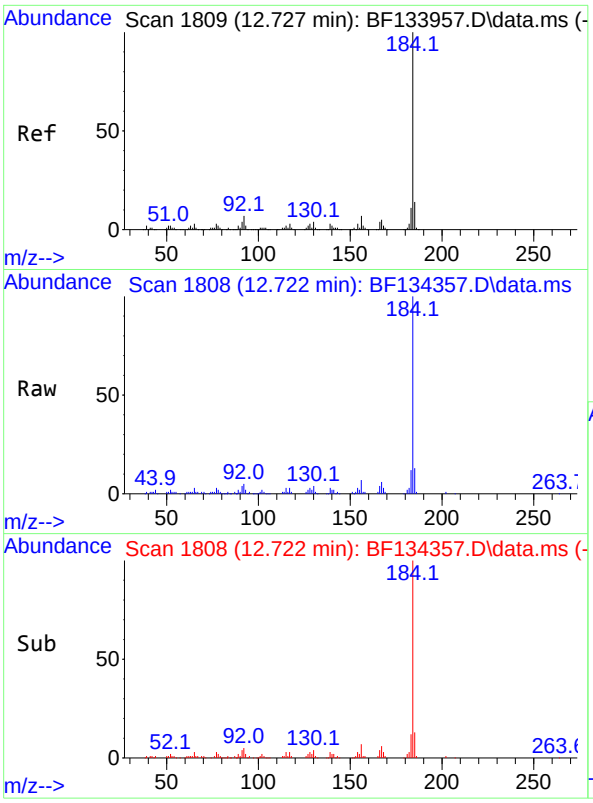


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.039 min Scan# 2032
Delta R.T. 0.000 min
Lab File: BF134357.D
Acq: 19 Jul 2023 14:07

Tgt Ion:240 Resp: 207181

Ion	Ratio	Lower	Upper
240	100		
120	8.0	7.4	11.0
236	26.0	21.0	31.6

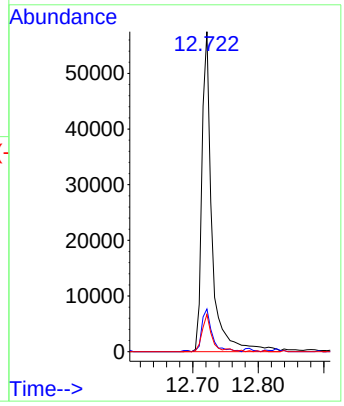




#77
Benzidine
Concen: 12.501 ng
RT: 12.722 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF134357.D
Acq: 19 Jul 2023 14:07

Tgt Ion:184 Resp: 6162

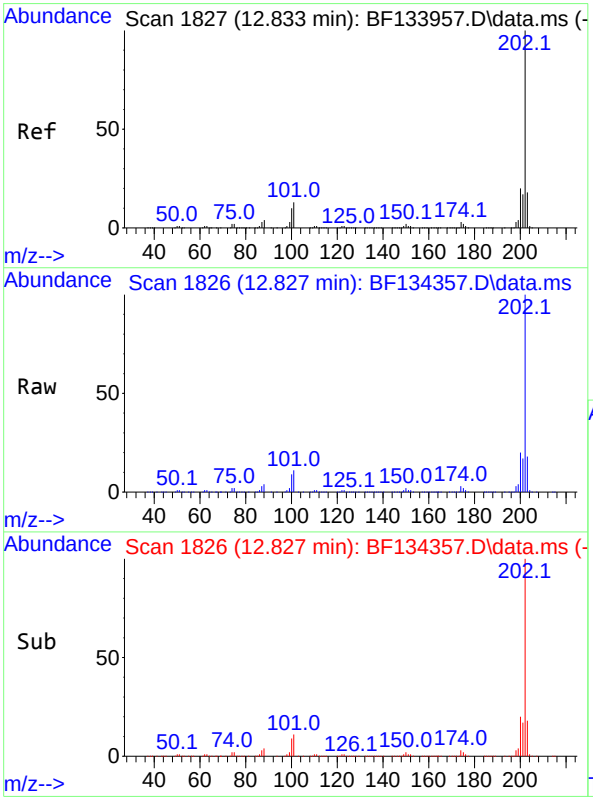
Ion	Ratio	Lower	Upper
184	100		
185	13.4	11.6	17.4
183	11.6	8.8	13.2



Instrument :
BNA_F
ClientSampleId :
PB154258BS

Manual Integrations
APPROVED

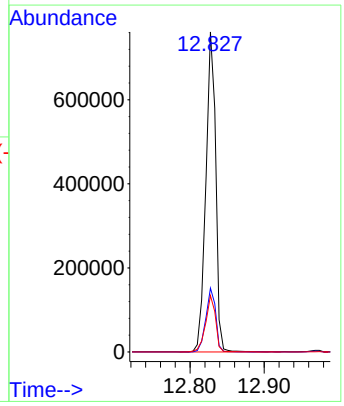
Reviewed By :Yogesh Patel 07/20/2023
Supervised By :mohammad ahmed 07/20/2023

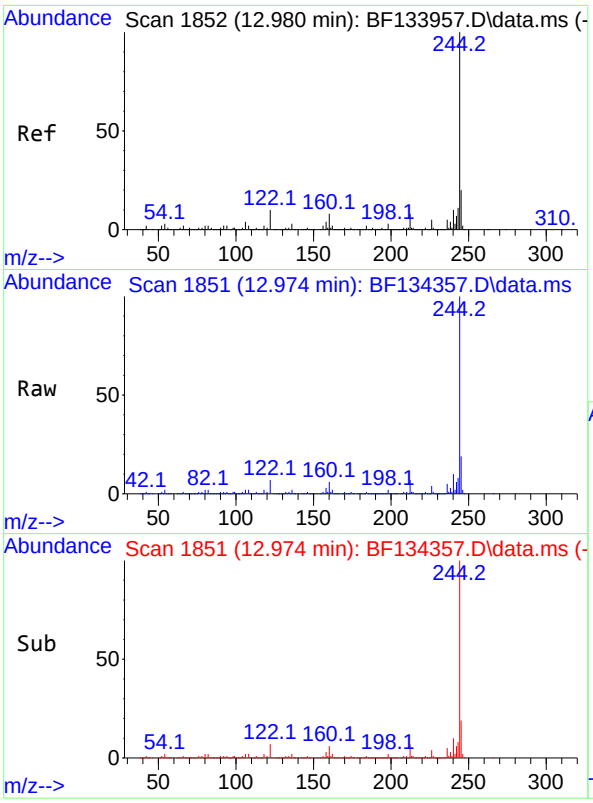


#78
Pyrene
Concen: 36.659 ng
RT: 12.827 min Scan# 1826
Delta R.T. -0.006 min
Lab File: BF134357.D
Acq: 19 Jul 2023 14:07

Tgt Ion:202 Resp: 706828

Ion	Ratio	Lower	Upper
202	100		
200	20.0	16.1	24.1
203	17.6	14.3	21.5

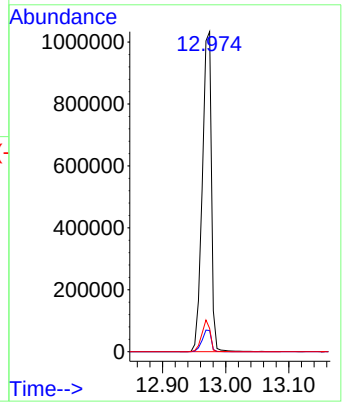




#79
Terphenyl-d14
Concen: 80.056 ng
RT: 12.974 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF134357.D
Acq: 19 Jul 2023 14:07

Tgt Ion:244 Resp: 103056

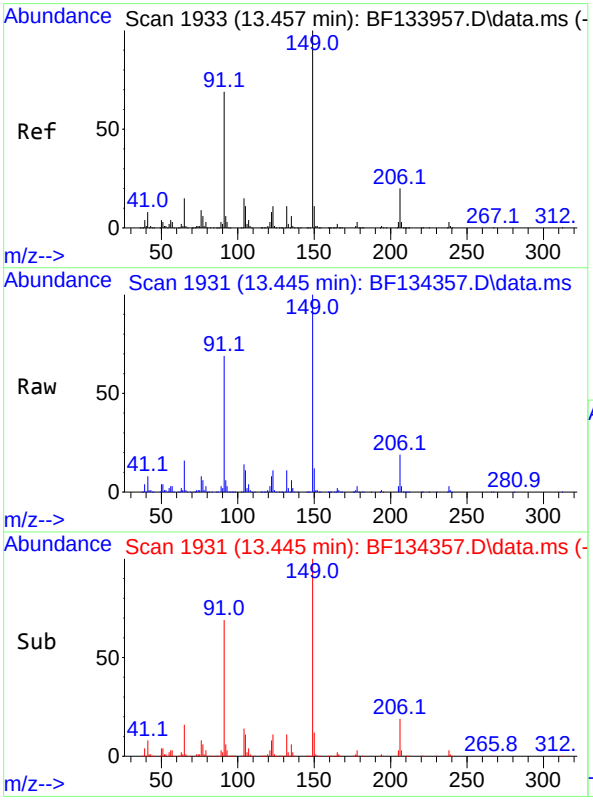
Ion	Ratio	Lower	Upper
244	100		
212	6.6	6.0	9.0
122	7.3	8.3	12.5



Instrument :
BNA_F
ClientSampleId :
PB154258BS

Manual Integrations
APPROVED

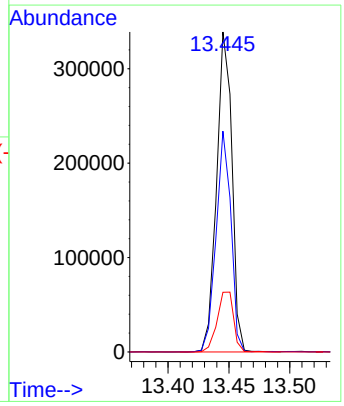
Reviewed By :Yogesh Patel 07/20/2023
Supervised By :mohammad ahmed 07/20/2023

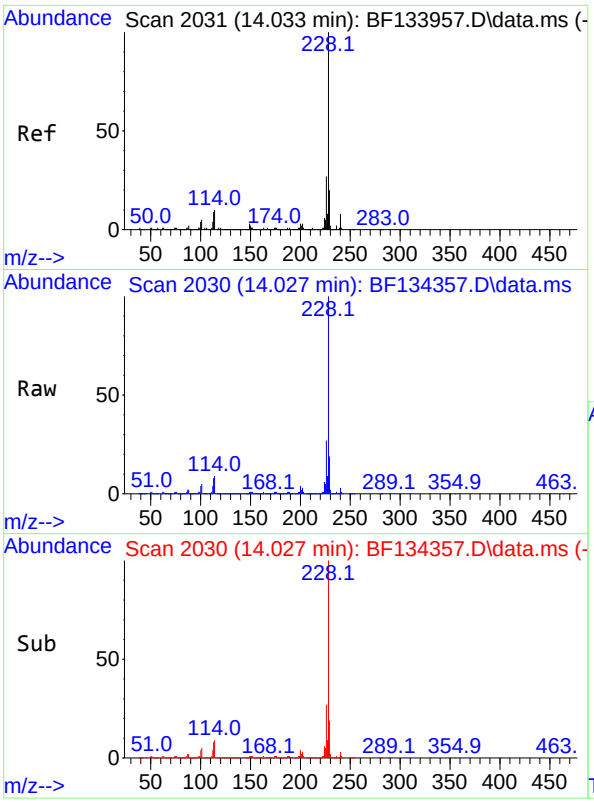


#80
Butylbenzylphthalate
Concen: 41.191 ng
RT: 13.445 min Scan# 1931
Delta R.T. -0.006 min
Lab File: BF134357.D
Acq: 19 Jul 2023 14:07

Tgt Ion:149 Resp: 297866

Ion	Ratio	Lower	Upper
149	100		
91	69.0	55.1	82.7
206	18.6	15.7	23.5

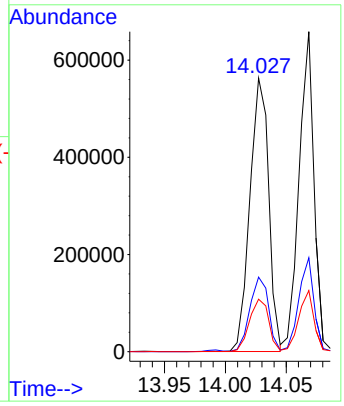




#81
Benzo(a)anthracene
Concen: 42.077 ng
RT: 14.027 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF134357.D
Acq: 19 Jul 2023 14:07

Tgt Ion:228 Resp: 60457

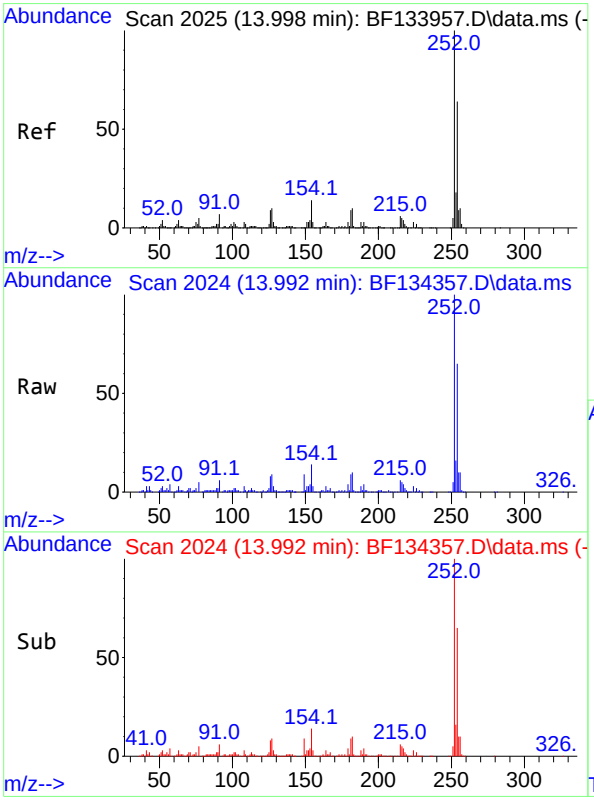
Ion	Ratio	Lower	Upper
228	100		
226	27.3	22.0	33.0
229	19.2	16.3	24.5



Instrument :
BNA_F
ClientSampleId :
PB154258BS

Manual Integrations
APPROVED

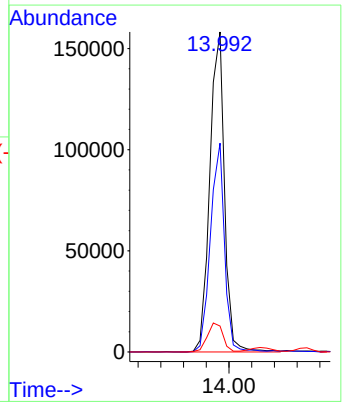
Reviewed By :Yogesh Patel 07/20/2023
Supervised By :mohammad ahmed 07/20/2023

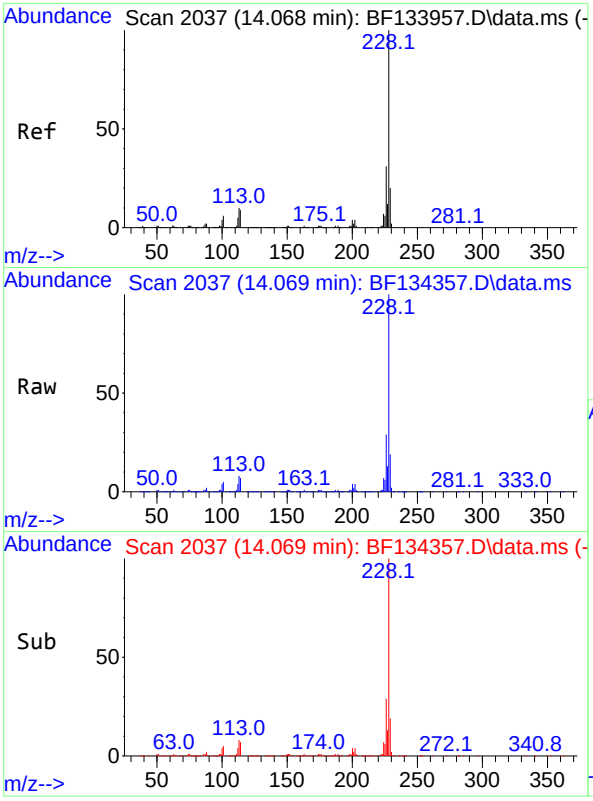


#82
3,3'-Dichlorobenzidine
Concen: 31.088 ng
RT: 13.992 min Scan# 2024
Delta R.T. 0.000 min
Lab File: BF134357.D
Acq: 19 Jul 2023 14:07

Tgt Ion:252 Resp: 141520

Ion	Ratio	Lower	Upper
252	100		
254	65.2	51.4	77.0
126	8.1	7.4	11.2

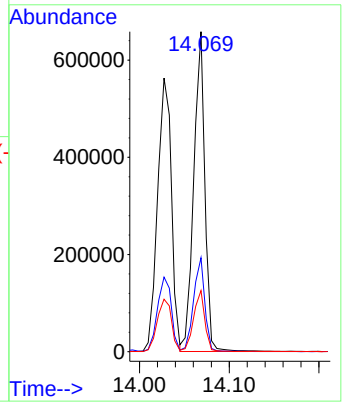




#83
Chrysene
Concen: 40.704 ng
RT: 14.069 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF134357.D
Acq: 19 Jul 2023 14:07

Tgt Ion:228 Resp: 56646

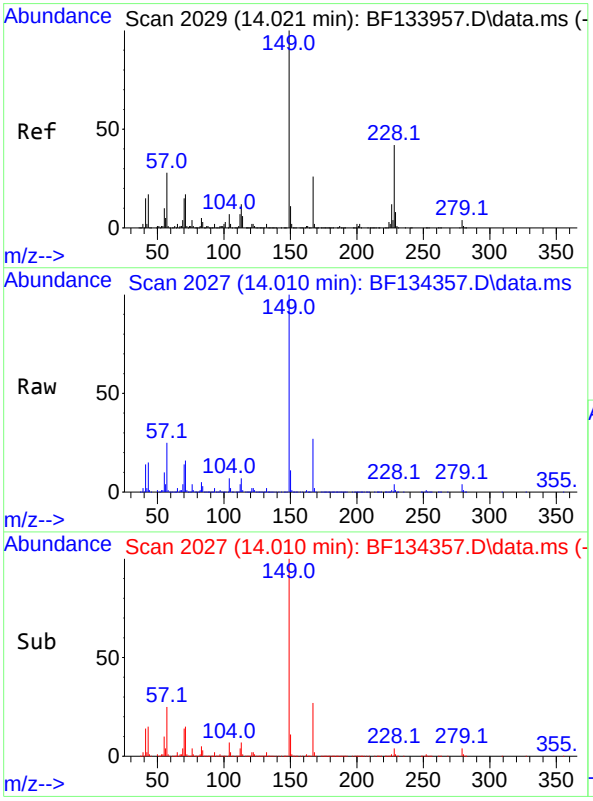
Ion	Ratio	Lower	Upper
228	100		
226	29.3	24.4	36.6
229	19.1	16.1	24.1



Instrument :
BNA_F
ClientSampleId :
PB154258BS

Manual Integrations
APPROVED

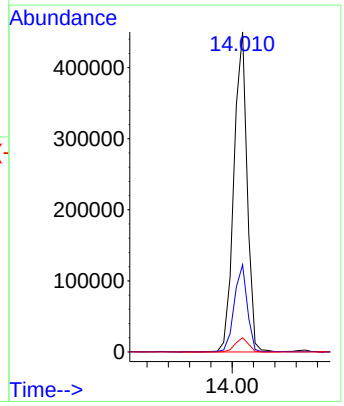
Reviewed By :Yogesh Patel 07/20/2023
Supervised By :mohammad ahmed 07/20/2023

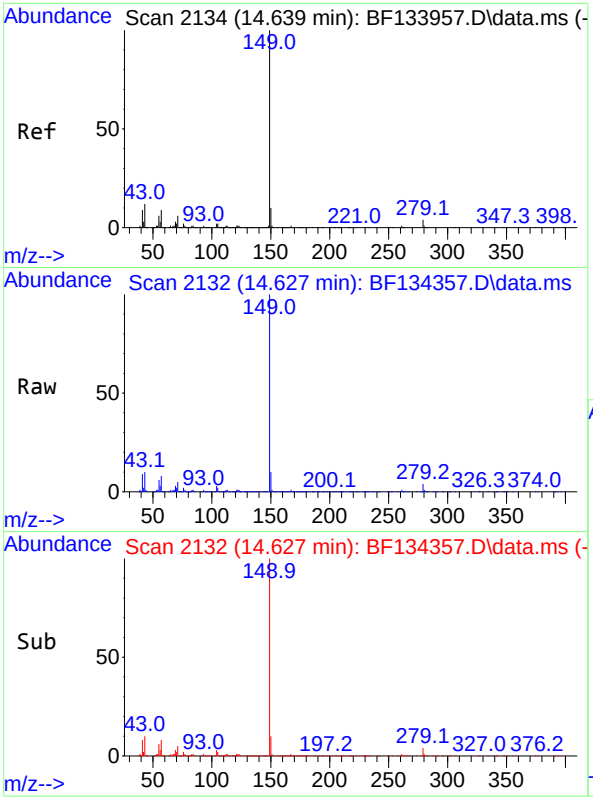


#84
Bis(2-ethylhexyl)phthalate
Concen: 46.855 ng
RT: 14.010 min Scan# 2027
Delta R.T. -0.006 min
Lab File: BF134357.D
Acq: 19 Jul 2023 14:07

Tgt Ion:149 Resp: 389324

Ion	Ratio	Lower	Upper
149	100		
167	27.2	21.0	31.4
279	4.5	3.3	4.9

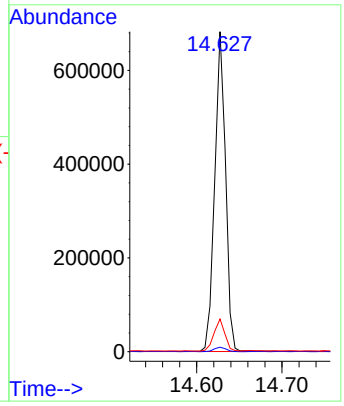




#85
Di-n-octyl phthalate
Concen: 49.324 ng
RT: 14.627 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF134357.D
Acq: 19 Jul 2023 14:07

Tgt Ion:149 Resp: 60220

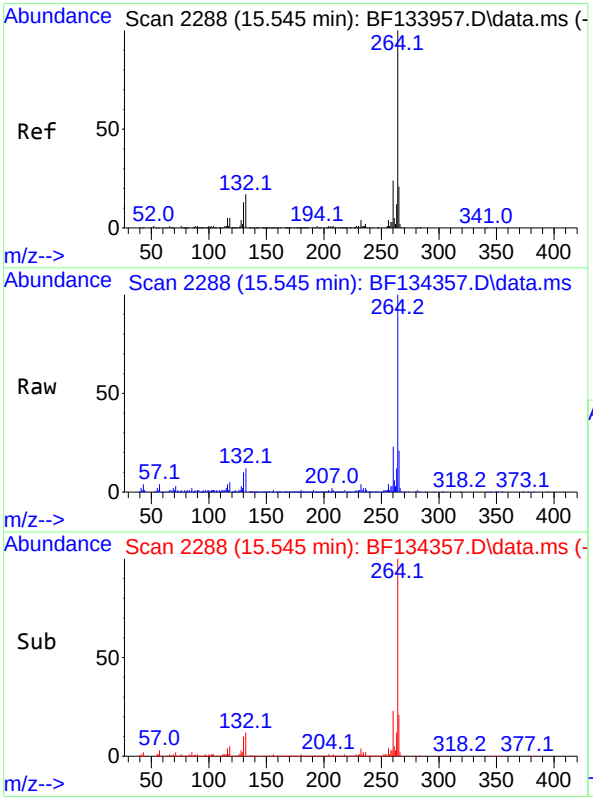
Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	10.0	9.0	13.4



Instrument :
BNA_F
ClientSampleId :
PB154258BS

Manual Integrations
APPROVED

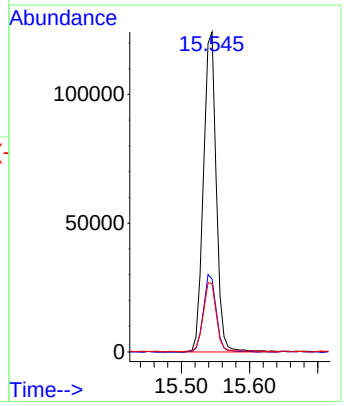
Reviewed By :Yogesh Patel 07/20/2023
Supervised By :mohammad ahmed 07/20/2023

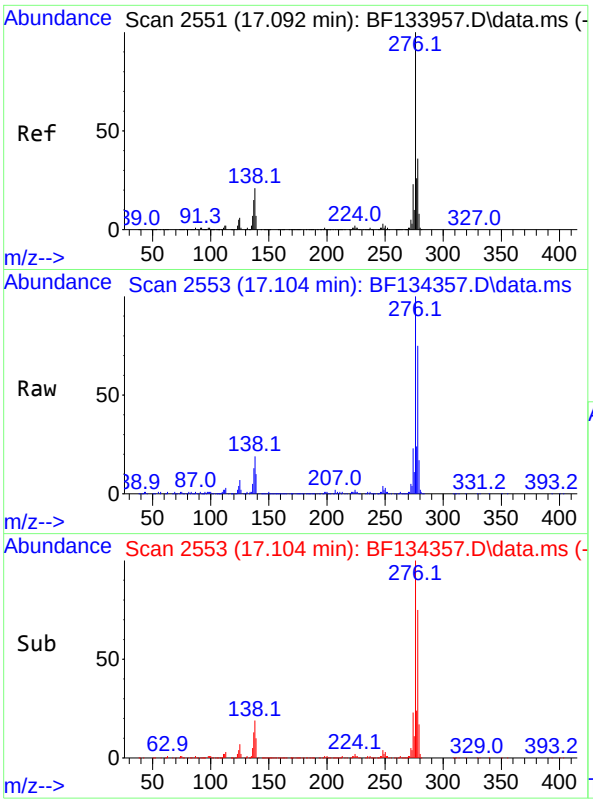


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.545 min Scan# 2288
Delta R.T. 0.000 min
Lab File: BF134357.D
Acq: 19 Jul 2023 14:07

Tgt Ion:264 Resp: 162647

Ion	Ratio	Lower	Upper
264	100		
260	22.8	19.5	29.3
265	21.4	16.6	25.0

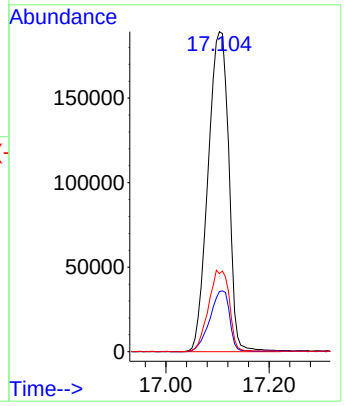




#87
Indeno(1,2,3-cd)pyrene
Concen: 46.627 ng
RT: 17.104 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF134357.D
Acq: 19 Jul 2023 14:07

Tgt Ion:276 Resp: 52623

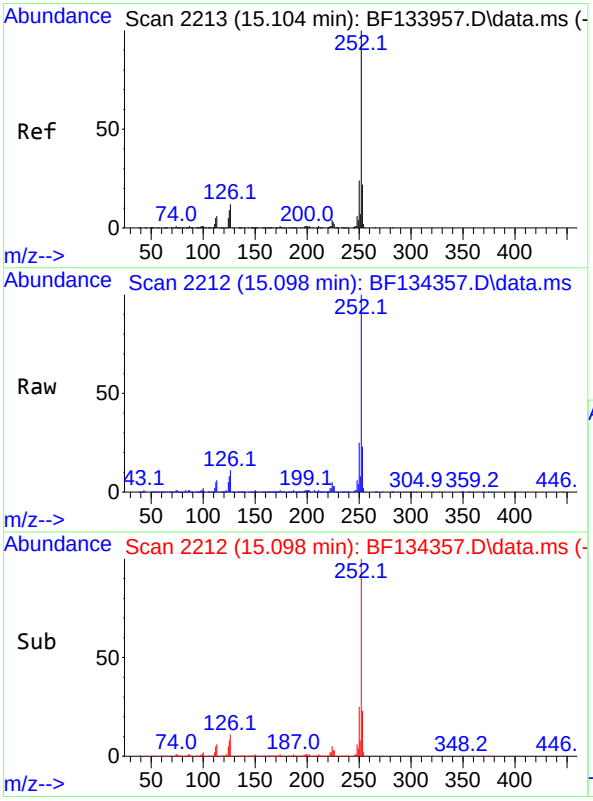
Ion	Ratio	Lower	Upper
276	100		
138	18.3	18.7	28.1
277	25.7	19.9	29.9



Instrument :
BNA_F
ClientSampleId :
PB154258BS

Manual Integrations
APPROVED

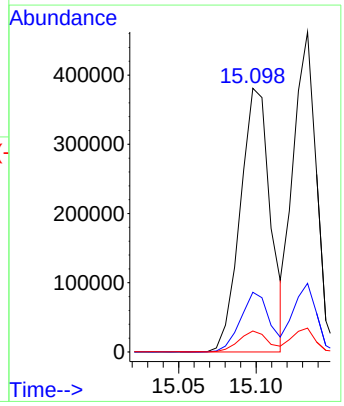
Reviewed By :Yogesh Patel 07/20/2023
Supervised By :mohammad ahmed 07/20/2023

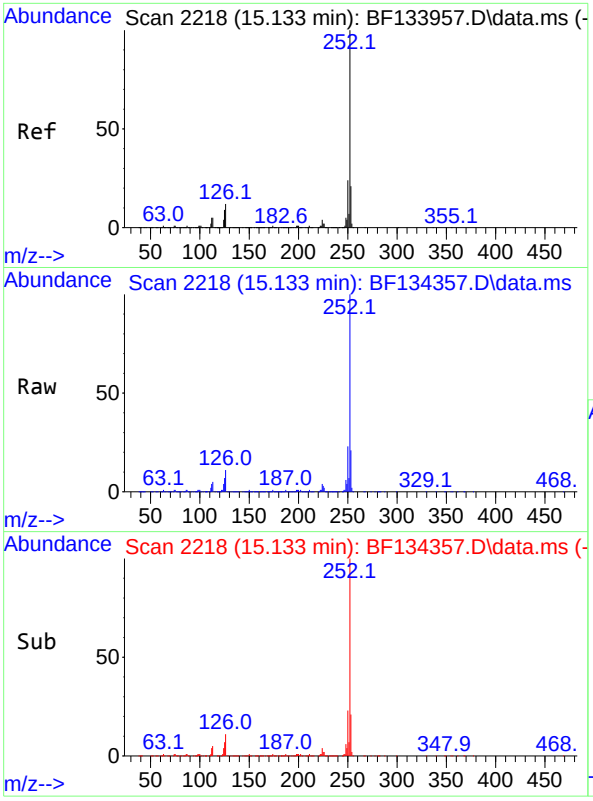


#88
Benzo(b)fluoranthene
Concen: 53.939 ng
RT: 15.098 min Scan# 2212
Delta R.T. -0.006 min
Lab File: BF134357.D
Acq: 19 Jul 2023 14:07

Tgt Ion:252 Resp: 515856

Ion	Ratio	Lower	Upper
252	100		
253	22.7	17.4	26.0
125	8.0	7.1	10.7

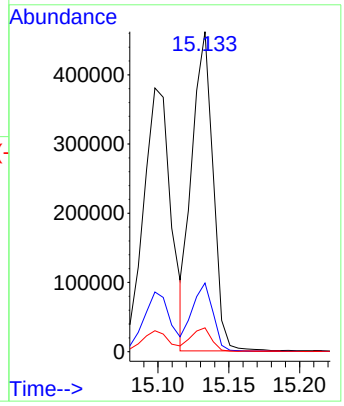




#89
Benzo(k)fluoranthene
Concen: 49.251 ng m
RT: 15.133 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF134357.D
Acq: 19 Jul 2023 14:07

Tgt Ion:252 Resp: 47957

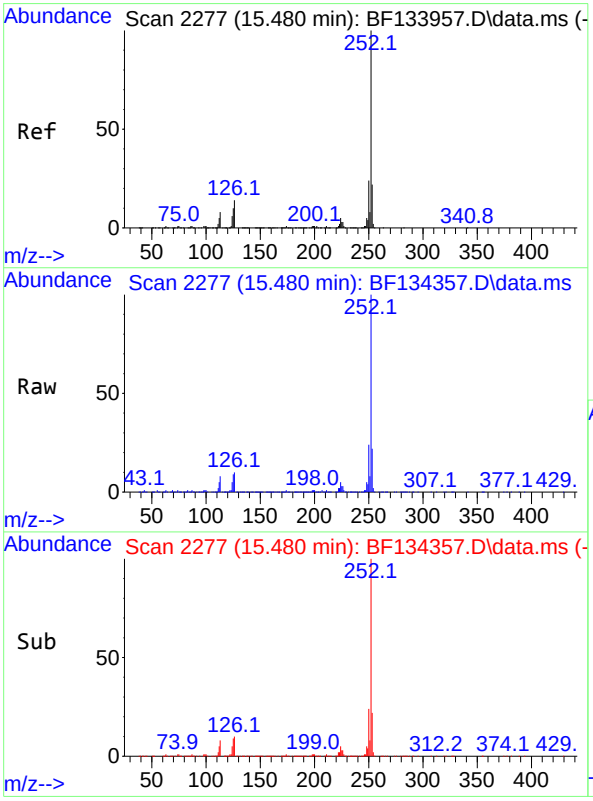
Ion	Ratio	Lower	Upper
252	100		
253	21.5	16.9	25.3
125	7.4	7.4	11.2



Instrument :
BNA_F
ClientSampleId :
PB154258BS

Manual Integrations
APPROVED

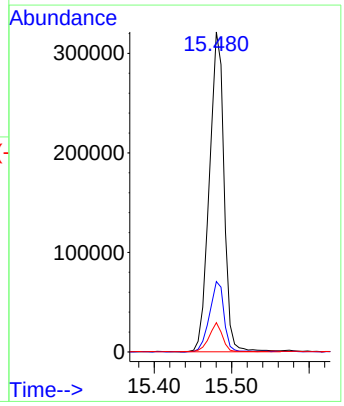
Reviewed By :Yogesh Patel 07/20/2023
Supervised By :mohammad ahmed 07/20/2023

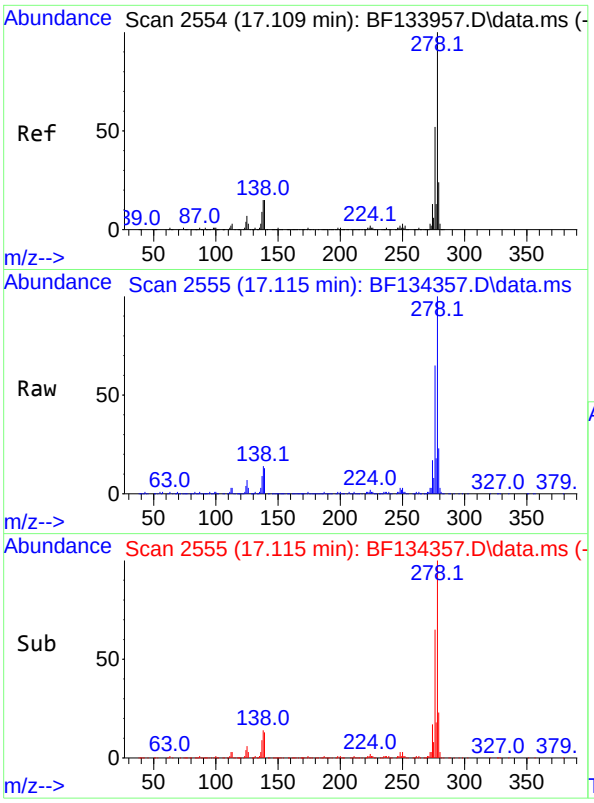


#90
Benzo(a)pyrene
Concen: 45.689 ng
RT: 15.480 min Scan# 2277
Delta R.T. 0.000 min
Lab File: BF134357.D
Acq: 19 Jul 2023 14:07

Tgt Ion:252 Resp: 422532

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.4	26.0
125	9.1	8.4	12.6

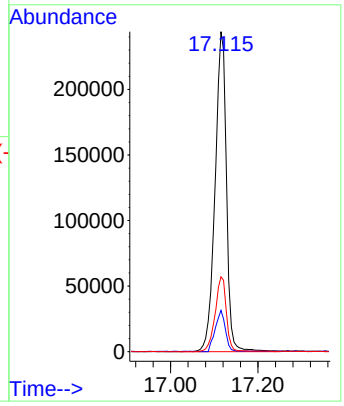




#91
Dibenzo(a,h)anthracene
Concen: 48.009 ng
RT: 17.115 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF134357.D
Acq: 19 Jul 2023 14:07

Tgt Ion:278 Resp: 44256

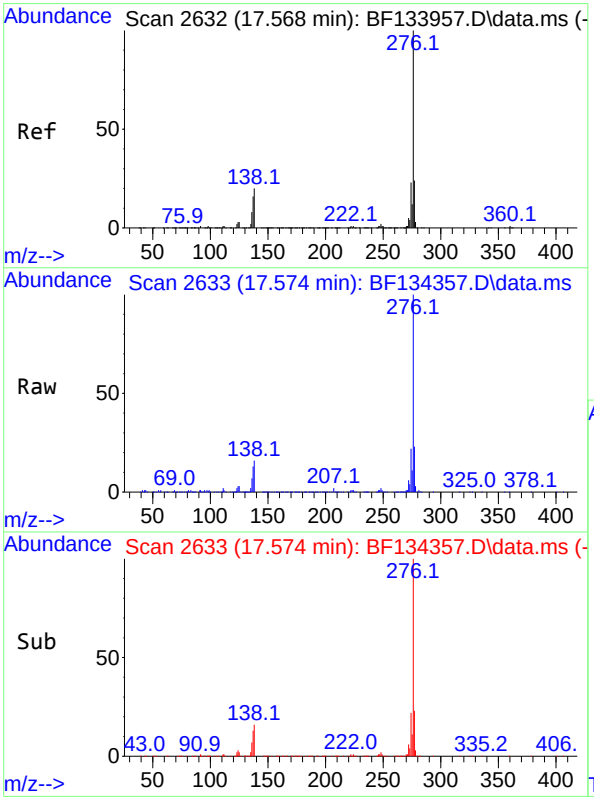
Ion	Ratio	Lower	Upper
278	100		
139	12.9	12.2	18.4
279	23.4	19.4	29.2



Instrument :
BNA_F
ClientSampleId :
PB154258BS

Manual Integrations
APPROVED

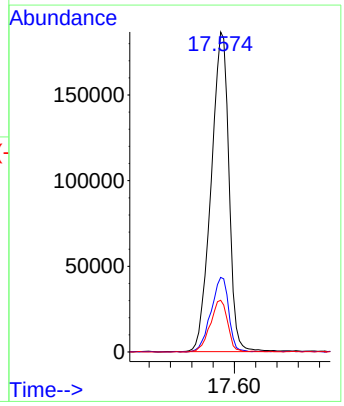
Reviewed By :Yogesh Patel 07/20/2023
Supervised By :mohammad ahmed 07/20/2023



#92
Benzo(g,h,i)perylene
Concen: 45.424 ng
RT: 17.574 min Scan# 2633
Delta R.T. 0.006 min
Lab File: BF134357.D
Acq: 19 Jul 2023 14:07

Tgt Ion:276 Resp: 431817

Ion	Ratio	Lower	Upper
276	100		
277	23.3	19.0	28.6
138	16.2	16.2	24.2



CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	
Project:	Mackenna Parcels	Date Received:	
Client Sample ID:	PB154218BSD	SDG No.:	O3645
Lab Sample ID:	PB154218BSD	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP016414.D	1	07/17/23 08:30	07/28/23 09:48	PB154218

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	58.9		3.30	10.0	ug/L
108-95-2	Phenol	56.1		1.50	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	50.3		1.70	5.00	ug/L
95-57-8	2-Chlorophenol	54.8		1.40	5.00	ug/L
95-48-7	2-Methylphenol	51.6		2.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	52.1		2.30	5.00	ug/L
98-86-2	Acetophenone	48.3		1.80	5.00	ug/L
65794-96-9	3+4-Methylphenols	51.6		2.20	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	49.0		2.00	2.50	ug/L
67-72-1	Hexachloroethane	52.2		1.60	5.00	ug/L
98-95-3	Nitrobenzene	48.9		1.70	5.00	ug/L
78-59-1	Isophorone	47.4		1.70	5.00	ug/L
88-75-5	2-Nitrophenol	46.6		2.40	5.00	ug/L
105-67-9	2,4-Dimethylphenol	52.5		3.00	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	48.3		2.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	51.5		1.70	5.00	ug/L
91-20-3	Naphthalene	47.4		1.70	5.00	ug/L
106-47-8	4-Chloroaniline	31.1		2.50	5.00	ug/L
87-68-3	Hexachlorobutadiene	45.3		1.90	5.00	ug/L
105-60-2	Caprolactam	51.0		3.40	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	51.6		1.80	5.00	ug/L
91-57-6	2-Methylnaphthalene	45.3		2.20	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	120	E	5.70	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	50.7		1.50	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	46.5		1.60	5.00	ug/L
92-52-4	1,1-Biphenyl	47.6		1.80	5.00	ug/L
91-58-7	2-Chloronaphthalene	49.0		1.60	5.00	ug/L
88-74-4	2-Nitroaniline	53.0		2.40	5.00	ug/L
131-11-3	Dimethylphthalate	47.1		1.90	5.00	ug/L
208-96-8	Acenaphthylene	48.1		2.10	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	49.3		2.10	5.00	ug/L

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	
Project:	Mackenna Parcels	Date Received:	
Client Sample ID:	PB154218BSD	SDG No.:	O3645
Lab Sample ID:	PB154218BSD	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP016414.D	1	07/17/23 08:30	07/28/23 09:48	PB154218

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	40.6		2.40	5.00	ug/L
83-32-9	Acenaphthene	48.0		1.70	5.00	ug/L
51-28-5	2,4-Dinitrophenol	97.1	E	5.50	10.0	ug/L
100-02-7	4-Nitrophenol	120	E	2.80	10.0	ug/L
132-64-9	Dibenzofuran	46.6		1.60	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	52.5		2.50	5.00	ug/L
84-66-2	Diethylphthalate	48.1		2.10	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	45.6		2.20	5.00	ug/L
86-73-7	Fluorene	47.7		2.00	5.00	ug/L
100-01-6	4-Nitroaniline	49.4		2.30	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	49.4		1.80	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	49.4		2.00	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	46.3		2.00	5.00	ug/L
118-74-1	Hexachlorobenzene	46.8		1.90	5.00	ug/L
1912-24-9	Atrazine	60.5		3.50	5.00	ug/L
87-86-5	Pentachlorophenol	90.4	E	2.60	10.0	ug/L
85-01-8	Phenanthrene	49.1		2.00	5.00	ug/L
120-12-7	Anthracene	49.4		2.30	5.00	ug/L
86-74-8	Carbazole	51.1		1.70	5.00	ug/L
84-74-2	Di-n-butylphthalate	51.3		2.40	5.00	ug/L
206-44-0	Fluoranthene	48.4		2.10	5.00	ug/L
129-00-0	Pyrene	50.3		1.90	5.00	ug/L
85-68-7	Butylbenzylphthalate	54.1		2.80	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	41.6		5.40	10.0	ug/L
56-55-3	Benzo(a)anthracene	49.3		1.50	5.00	ug/L
218-01-9	Chrysene	48.2		1.60	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	53.6		2.90	5.00	ug/L
117-84-0	Di-n-octyl phthalate	54.8		3.10	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	53.5		1.50	5.00	ug/L
207-08-9	Benzo(k)fluoranthene	53.3		1.90	5.00	ug/L
50-32-8	Benzo(a)pyrene	48.5		2.70	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	49.5		2.10	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	49.6		2.00	5.00	ug/L

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	
Project:	Mackenna Parcels	Date Received:	
Client Sample ID:	PB154218BSD	SDG No.:	O3645
Lab Sample ID:	PB154218BSD	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BP016414.D	1	07/17/23 08:30	07/28/23 09:48	PB154218

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
191-24-2	Benzo(g,h,i)perylene	48.3		1.90	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	45.6		2.10	5.00	ug/L
123-91-1	1,4-Dioxane	40.5		2.40	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	49.0		1.30	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	175		10 - 139	117%	SPK: 150
13127-88-3	Phenol-d6	165		10 - 134	110%	SPK: 150
4165-60-0	Nitrobenzene-d5	107		49 - 133	107%	SPK: 100
321-60-8	2-Fluorobiphenyl	101		52 - 132	101%	SPK: 100
118-79-6	2,4,6-Tribromophenol	136		45 - 141	91%	SPK: 150
1718-51-0	Terphenyl-d14	112		45 - 142	112%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	341000	8.087			
1146-65-2	Naphthalene-d8	1440000	10.922			
15067-26-2	Acenaphthene-d10	878000	14.734			
1517-22-2	Phenanthrene-d10	1900000	17.498			
1719-03-5	Chrysene-d12	1780000	21.586			
1520-96-3	Perylene-d12	1920000	24.186			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP072823\
Data File : BP016414.D
Acq On : 28 Jul 2023 09:48
Operator : MA/JU
Sample : PB154218BSD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 28 10:20:07 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP072723.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 28 01:48:25 2023
Response via : Initial Calibration

Instrument :
BNA_P
ClientSampleId :
PB154218BSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	8.087	152	341099	20.000	ng		0.00
21) Naphthalene-d8	10.922	136	1443205	20.000	ng		0.00
39) Acenaphthene-d10	14.734	164	877872	20.000	ng		0.00
64) Phenanthrene-d10	17.498	188	1902273	20.000	ng		0.00
76) Chrysene-d12	21.586	240	1781258	20.000	ng		0.00
86) Perylene-d12	24.186	264	1923431	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.605	112	3662447	175.168	ng		0.00
7) Phenol-d6	7.228	99	4736100	165.261	ng		0.00
23) Nitrobenzene-d5	9.287	82	2749420	106.643	ng		0.00
42) 2,4,6-Tribromophenol	16.228	330	1759316	136.225	ng		0.00
45) 2-Fluorobiphenyl	13.363	172	6193584	101.149	ng		0.00
79) Terphenyl-d14	20.039	244	9477886	112.400	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.458	88	330575	40.539	ng		99
3) Pyridine	3.869	79	942953	38.685	ng		99
4) n-Nitrosodimethylamine	3.799	42	454480	49.452	ng		98
6) Aniline	7.422	93	1639208	46.308	ng		99
8) 2-Chlorophenol	7.640	128	1202376	54.847	ng		96
9) Benzaldehyde	7.240	77	684220	58.929	ng		97
10) Phenol	7.258	94	1560515	56.072	ng		99
11) bis(2-Chloroethyl)ether	7.516	93	1137635	50.287	ng		99
12) 1,3-Dichlorobenzene	7.969	146	1223832	52.003	ng		97
13) 1,4-Dichlorobenzene	8.128	146	1243430	52.086	ng		99
14) 1,2-Dichlorobenzene	8.440	146	1192629	51.887	ng		98
15) Benzyl Alcohol	8.340	79	1049040	53.580	ng		99
16) 2,2'-oxybis(1-Chloropr...	8.622	45	1335507	52.053	ng		99
17) 2-Methylphenol	8.522	107	1035811	51.643	ng		99
18) Hexachloroethane	9.169	117	444516	52.203	ng		95
19) n-Nitroso-di-n-propyla...	8.910	70	879432	48.983	ng		98
20) 3+4-Methylphenols	8.857	107	1406017	51.615	ng		97
22) Acetophenone	8.934	105	1760137	48.305	ng	#	98
24) Nitrobenzene	9.328	77	1294375	48.881	ng		97
25) Isophorone	9.846	82	2467278	47.401	ng		99
26) 2-Nitrophenol	10.034	139	530506	46.581	ng		95
27) 2,4-Dimethylphenol	10.069	122	1222011	52.478	ng		99
28) bis(2-Chloroethoxy)met...	10.334	93	1539023	48.271	ng		99
29) 2,4-Dichlorophenol	10.557	162	1123079	51.534	ng		97
30) 1,2,4-Trichlorobenzene	10.769	180	1124535	47.641	ng		98
31) Naphthalene	10.975	128	3576507	47.377	ng		100
32) Benzoic acid	10.193	122	693027	45.707	ng		98
33) 4-Chloroaniline	11.099	127	1058458	31.084	ng		99
34) Hexachlorobutadiene	11.210	225	632400	45.252	ng		99
35) Caprolactam	11.910	113	406183m	51.007	ng		
36) 4-Chloro-3-methylphenol	12.187	107	1250382	51.617	ng		99
37) 2-Methylnaphthalene	12.569	142	2486261	45.336	ng		99
38) 1-Methylnaphthalene	12.793	142	2339047	45.494	ng		100
40) 1,2,4,5-Tetrachloroben...	12.916	216	1215429	45.560	ng		99
41) Hexachlorocyclopentadiene	12.875	237	1570810	117.237	ng		100
43) 2,4,6-Trichlorophenol	13.163	196	868280	50.725	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP072823\
Data File : BP016414.D
Acq On : 28 Jul 2023 09:48
Operator : MA/JU
Sample : PB154218BSD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 28 10:20:07 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP072723.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 28 01:48:25 2023
Response via : Initial Calibration

Instrument :
BNA_P
ClientSampleId :
PB154218BSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	13.228	196	966383	46.534	ng		96
46) 1,1'-Biphenyl	13.575	154	3182765	47.562	ng		99
47) 2-Chloronaphthalene	13.622	162	2474449	49.013	ng		99
48) 2-Nitroaniline	13.840	65	753795	52.969	ng		99
49) Acenaphthylene	14.463	152	4027035	48.075	ng		100
50) Dimethylphthalate	14.198	163	3219581	47.063	ng		100
51) 2,6-Dinitrotoluene	14.334	165	691373	49.332	ng		93
52) Acenaphthene	14.798	154	2389273	47.966	ng		100
53) 3-Nitroaniline	14.663	138	642767	40.568	ng		94
54) 2,4-Dinitrophenol	14.863	184	648878	97.073	ng		96
55) Dibenzofuran	15.134	168	3809511	46.631	ng		98
56) 4-Nitrophenol	14.945	139	1459360	117.664	ng		98
57) 2,4-Dinitrotoluene	15.110	165	958605	52.484	ng		96
58) Fluorene	15.787	166	3062096	47.710	ng		100
59) 2,3,4,6-Tetrachlorophenol	15.345	232	836233	48.950	ng		93
60) Diethylphthalate	15.551	149	3268820	48.082	ng		99
61) 4-Chlorophenyl-phenyle...	15.775	204	1476567	45.590	ng		96
62) 4-Nitroaniline	15.834	138	777416	49.441	ng		98
63) Azobenzene	16.075	77	3154611	49.143	ng		97
65) 4,6-Dinitro-2-methylph...	15.857	198	442136	49.423	ng		92
66) n-Nitrosodiphenylamine	15.998	169	2769269	49.397	ng		100
67) 4-Bromophenyl-phenylether	16.681	248	932739	46.307	ng		97
68) Hexachlorobenzene	16.757	284	1050524	46.768	ng		94
69) Atrazine	16.951	200	1009264	60.534	ng		99
70) Pentachlorophenol	17.122	266	1405814	90.437	ng		95
71) Phenanthrene	17.539	178	4955878	49.063	ng		100
72) Anthracene	17.633	178	5015058	49.376	ng		100
73) Carbazole	17.910	167	4864821	51.087	ng		99
74) Di-n-butylphthalate	18.428	149	5649496	51.280	ng		99
75) Fluoranthene	19.498	202	5728708	48.387	ng		99
77) Benzidine	19.692	184	3699255	119.783	ng		100
78) Pyrene	19.851	202	6002410	50.268	ng		100
80) Butylbenzylphthalate	20.716	149	2540089	54.148	ng		97
81) Benzo(a)anthracene	21.574	228	5887657	49.263	ng		99
82) 3,3'-Dichlorobenzidine	21.504	252	1631317	41.581	ng	#	99
83) Chrysene	21.627	228	5504239	48.230	ng		100
84) Bis(2-ethylhexyl)phtha...	21.463	149	3773272	53.576	ng		99
85) Di-n-octyl phthalate	22.457	149	6486632	54.763	ng		99
87) Indeno(1,2,3-cd)pyrene	26.962	276	6412404	49.450	ng		96
88) Benzo(b)fluoranthene	23.380	252	5961691	53.471	ng		99
89) Benzo(k)fluoranthene	23.433	252	6040601	53.272	ng		98
90) Benzo(a)pyrene	24.068	252	5236999	48.493	ng		98
91) Dibenzo(a,h)anthracene	26.998	278	5364247	49.604	ng		98
92) Benzo(g,h,i)perylene	27.827	276	5030024	48.267	ng		98

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

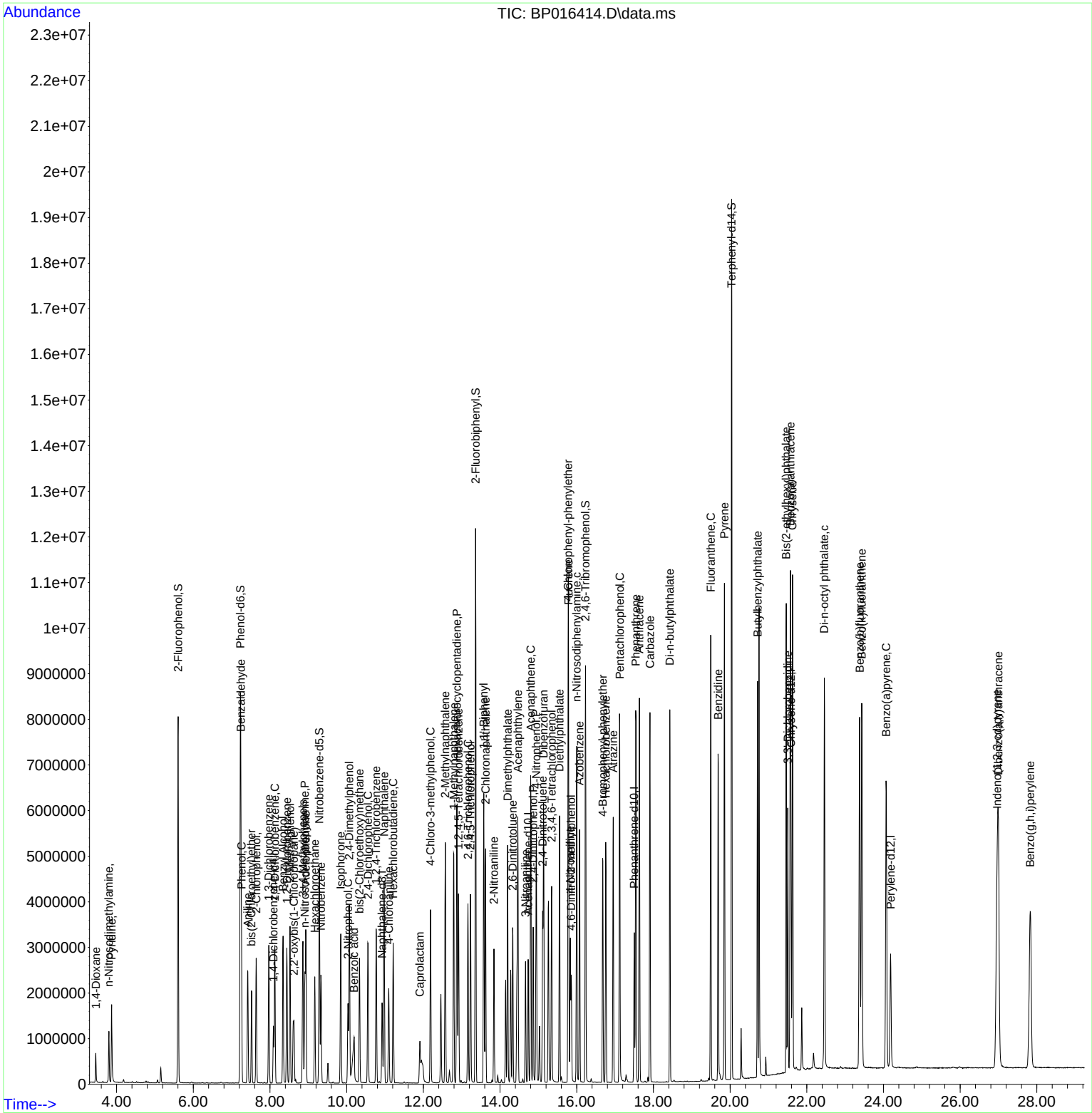
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP072823\
Data File : BP016414.D
Acq On : 28 Jul 2023 09:48
Operator : MA/JU
Sample : PB154218BSD
Misc :
ALS Vial : 5 Sample Multiplier: 1

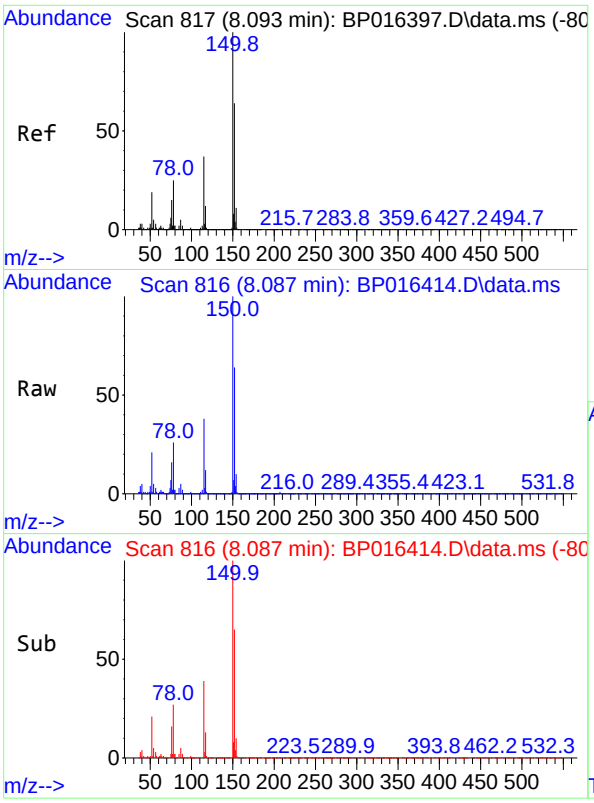
Quant Time: Jul 28 10:20:07 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP072723.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jul 28 01:48:25 2023
Response via : Initial Calibration

Instrument :
BNA_P
ClientSampleId :
PB154218BSD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

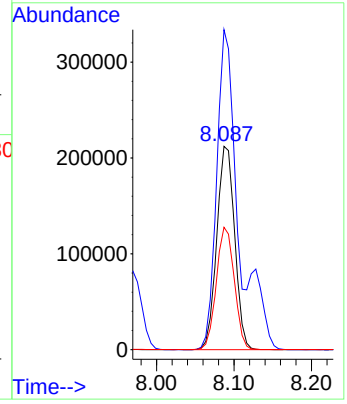




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.087 min Scan# 8
Delta R.T. -0.006 min
Lab File: BP016414.D
Acq: 28 Jul 2023 09:48

Tgt Ion:152 Resp: 34109

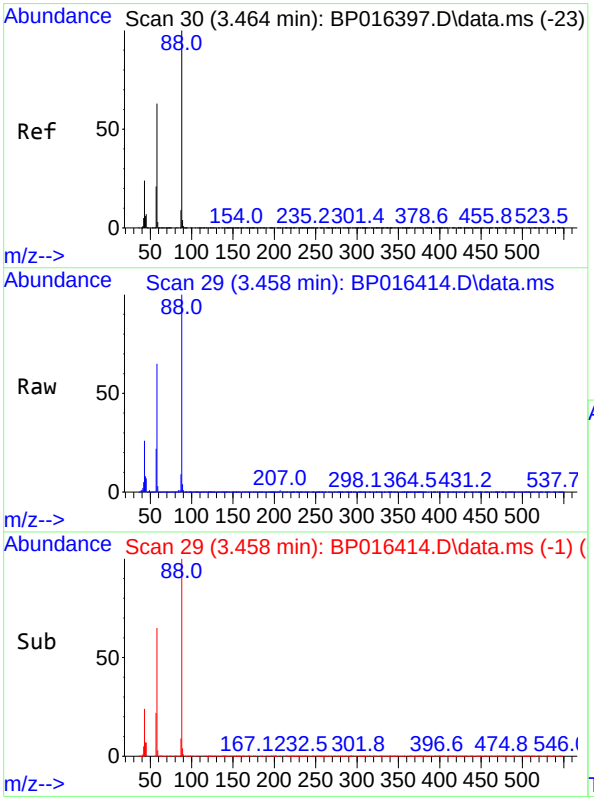
Ion	Ratio	Lower	Upper
152	100		
150	157.3	124.9	187.3
115	60.2	46.8	70.2



Instrument :
BNA_P
ClientSampleId :
PB154218BSD

Manual Integrations APPROVED

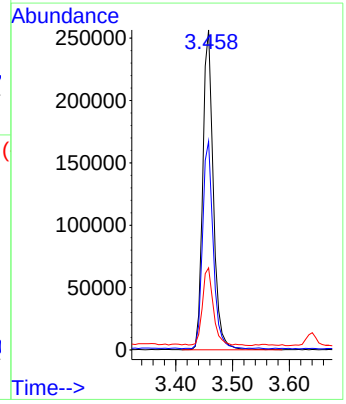
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

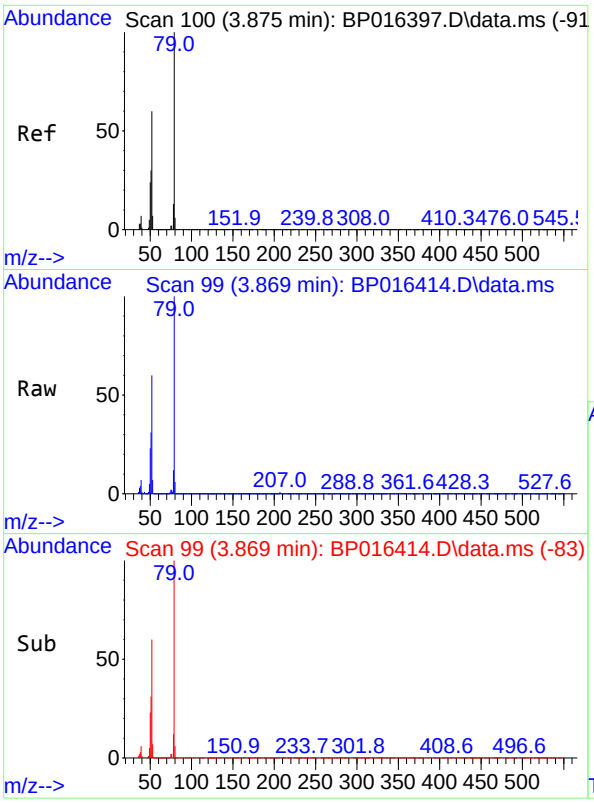


#2
1,4-Dioxane
Concen: 40.539 ng
RT: 3.458 min Scan# 29
Delta R.T. -0.006 min
Lab File: BP016414.D
Acq: 28 Jul 2023 09:48

Tgt Ion: 88 Resp: 330575

Ion	Ratio	Lower	Upper
88	100		
58	65.3	51.7	77.5
43	25.3	19.2	28.8

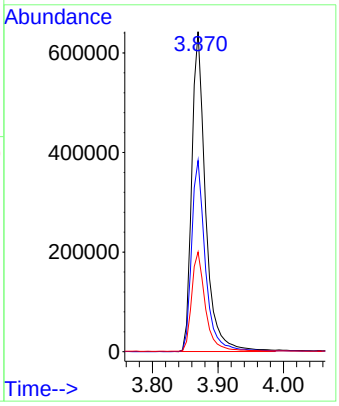




#3
Pyridine
Concen: 38.685 ng
RT: 3.869 min Scan# 9
Delta R.T. -0.006 min
Lab File: BP016414.D
Acq: 28 Jul 2023 09:48

Tgt Ion: 79 Resp: 94295

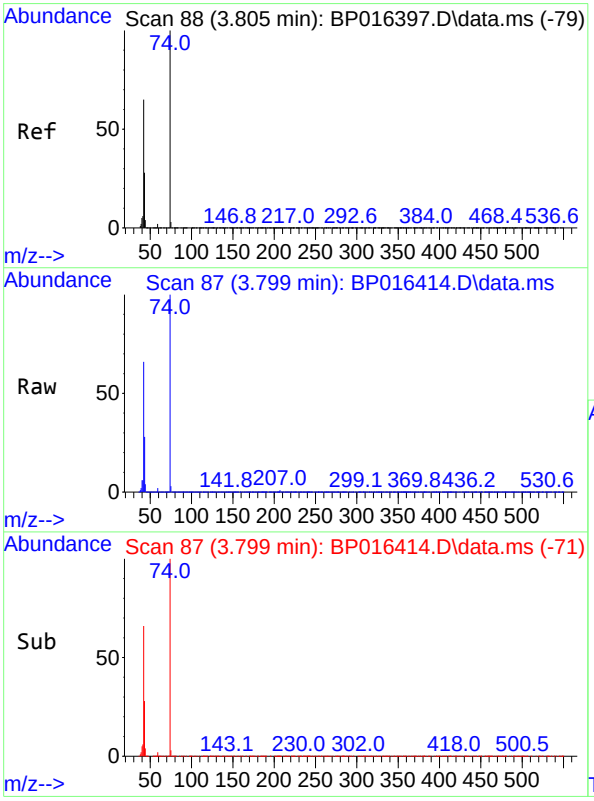
Ion	Ratio	Lower	Upper
79	100		
52	59.7	47.9	71.9
51	31.2	24.4	36.6



Instrument :
BNA_P
ClientSampleId :
PB154218BSD

Manual Integrations APPROVED

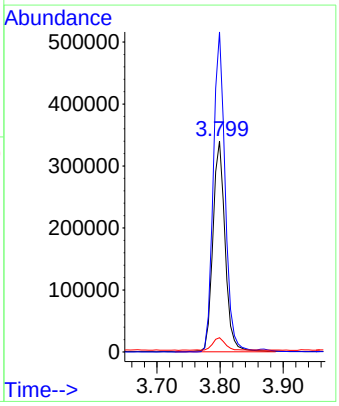
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

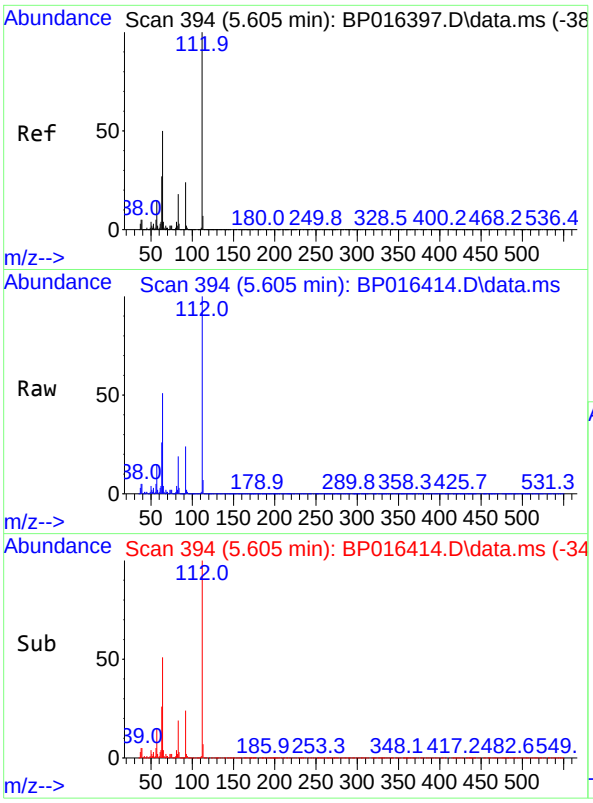


#4
n-Nitrosodimethylamine
Concen: 49.452 ng
RT: 3.799 min Scan# 87
Delta R.T. -0.006 min
Lab File: BP016414.D
Acq: 28 Jul 2023 09:48

Tgt Ion: 42 Resp: 454480

Ion	Ratio	Lower	Upper
42	100		
74	151.7	123.8	185.8
44	6.7	5.5	8.3

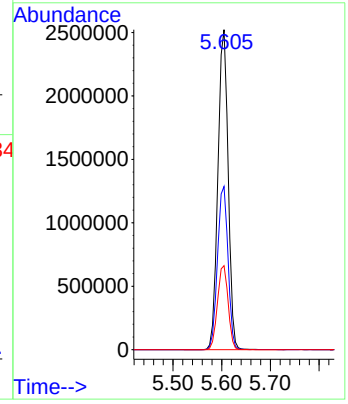




#5
2-Fluorophenol
Concen: 175.168 ng
RT: 5.605 min Scan# 3
Delta R.T. -0.000 min
Lab File: BP016414.D
Acq: 28 Jul 2023 09:48

Tgt Ion:112 Resp: 366244

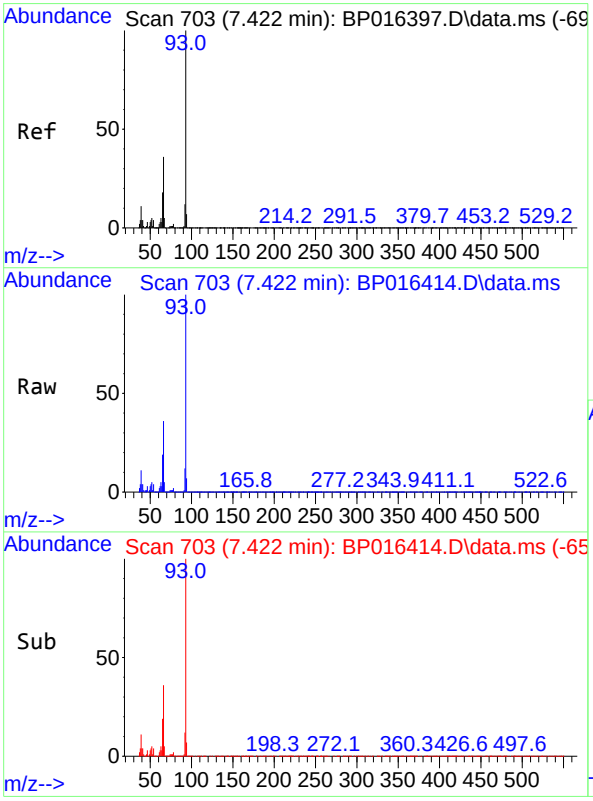
Ion	Ratio	Lower	Upper
112	100		
64	51.0	40.0	60.0
63	26.3	21.2	31.8



Instrument :
BNA_P
ClientSampleId :
PB154218BSD

Manual Integrations
APPROVED

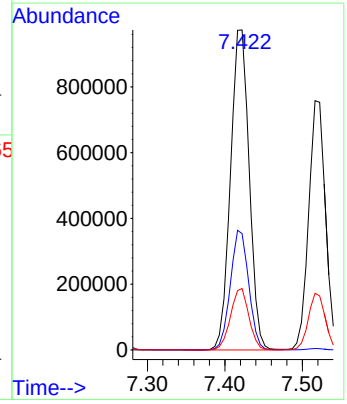
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

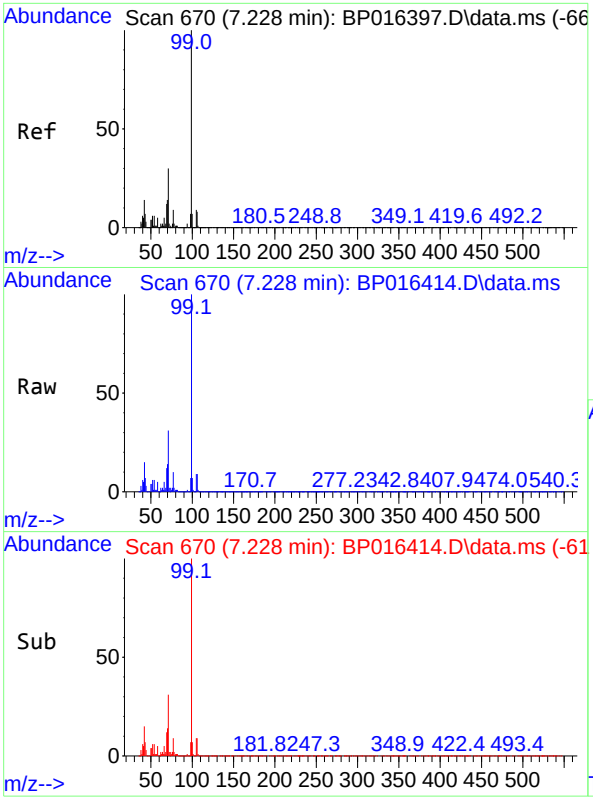


#6
Aniline
Concen: 46.308 ng
RT: 7.422 min Scan# 703
Delta R.T. -0.000 min
Lab File: BP016414.D
Acq: 28 Jul 2023 09:48

Tgt Ion: 93 Resp: 1639208

Ion	Ratio	Lower	Upper
93	100		
66	36.3	28.9	43.3
65	19.2	14.7	22.1

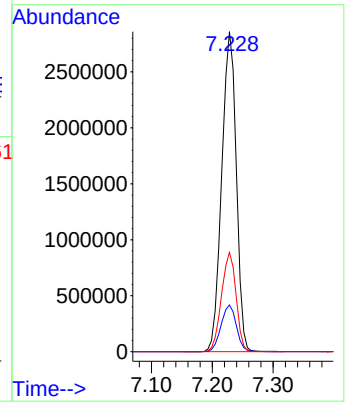




#7
Phenol-d6
Concen: 165.261 ng
RT: 7.228 min Scan# 6
Delta R.T. -0.000 min
Lab File: BP016414.D
Acq: 28 Jul 2023 09:48

Tgt Ion: 99 Resp: 473610

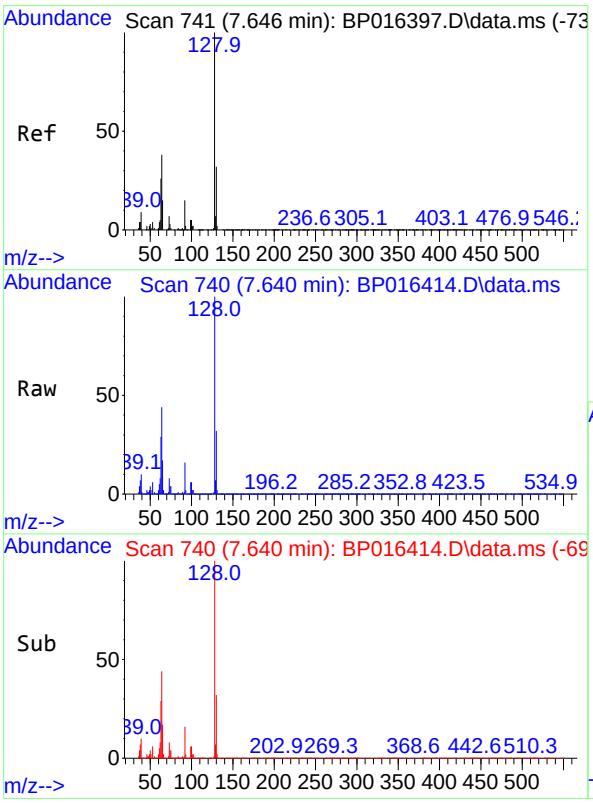
Ion	Ratio	Lower	Upper
99	100		
42	14.6	11.6	17.4
71	31.1	24.3	36.5



Instrument :
BNA_P
ClientSampleId :
PB154218BSD

Manual Integrations
APPROVED

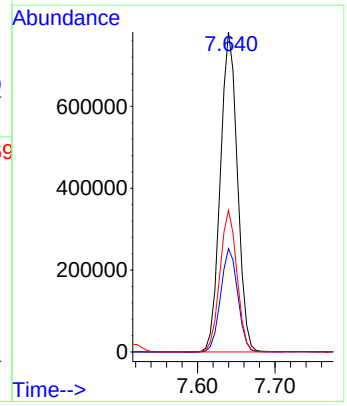
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

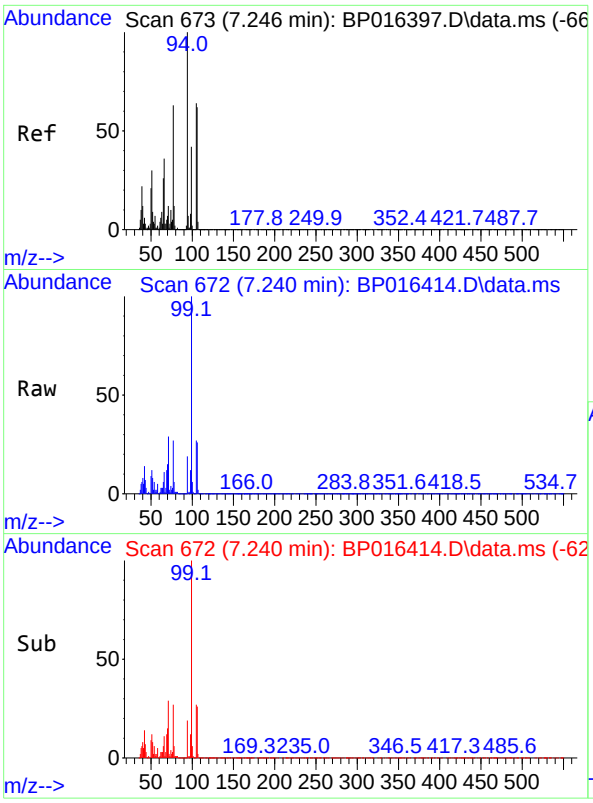


#8
2-Chlorophenol
Concen: 54.847 ng
RT: 7.640 min Scan# 740
Delta R.T. -0.006 min
Lab File: BP016414.D
Acq: 28 Jul 2023 09:48

Tgt Ion:128 Resp: 1202376

Ion	Ratio	Lower	Upper
128	100		
130	32.3	11.6	51.6
64	44.3	20.6	60.6

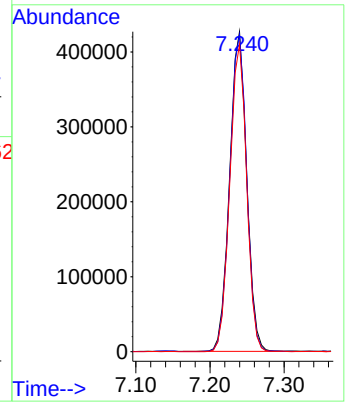




#9
Benzaldehyde
Concen: 58.929 ng
RT: 7.240 min Scan# 6
Delta R.T. -0.006 min
Lab File: BP016414.D
Acq: 28 Jul 2023 09:48

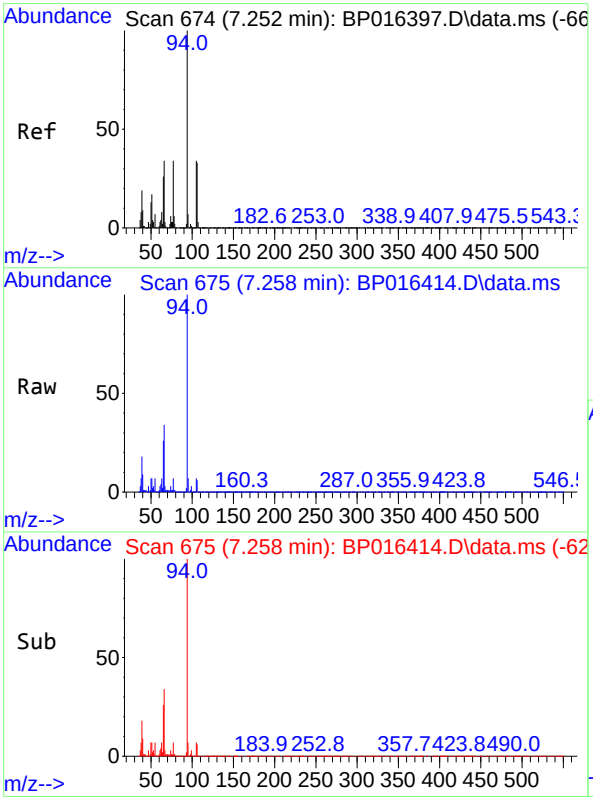
Tgt Ion: 77 Resp: 68422

Ion	Ratio	Lower	Upper
77	100		
105	99.0	81.9	121.9
106	96.0	78.8	118.8



Instrument :
BNA_P
ClientSampleId :
PB154218BSD

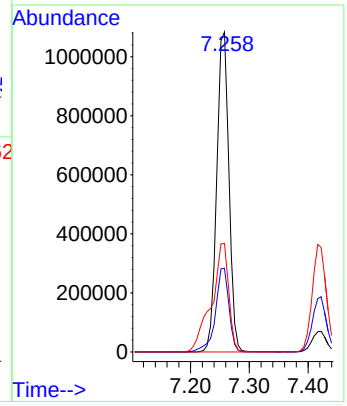
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

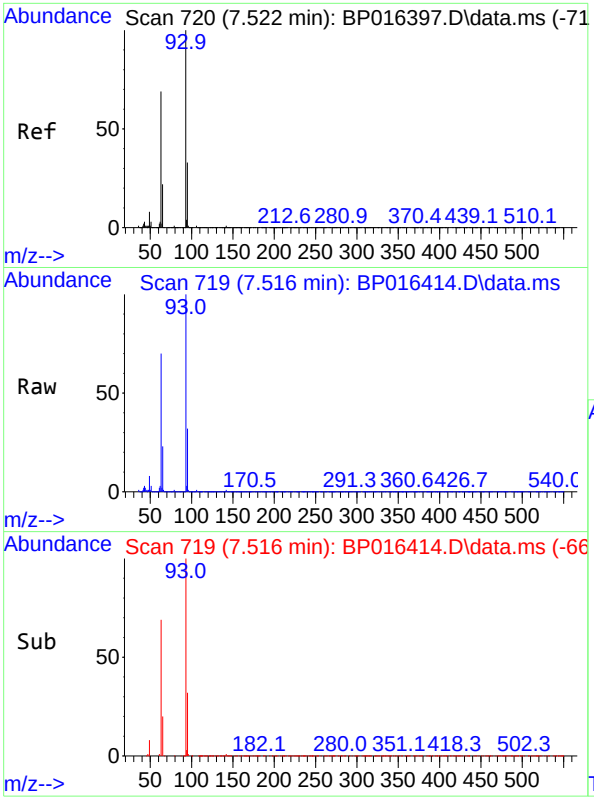


#10
Phenol
Concen: 56.072 ng
RT: 7.258 min Scan# 675
Delta R.T. 0.006 min
Lab File: BP016414.D
Acq: 28 Jul 2023 09:48

Tgt Ion: 94 Resp: 1560515

Ion	Ratio	Lower	Upper
94	100		
65	26.2	5.9	45.9
66	33.9	14.3	54.3

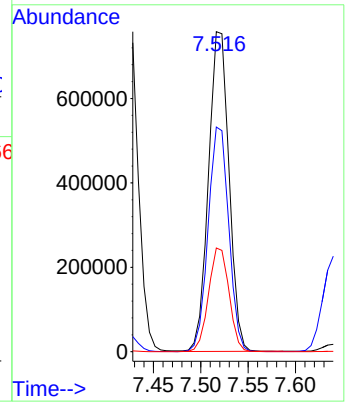




#11
bis(2-Chloroethyl)ether
Concen: 50.287 ng
RT: 7.516 min Scan# 7
Delta R.T. -0.006 min
Lab File: BP016414.D
Acq: 28 Jul 2023 09:48

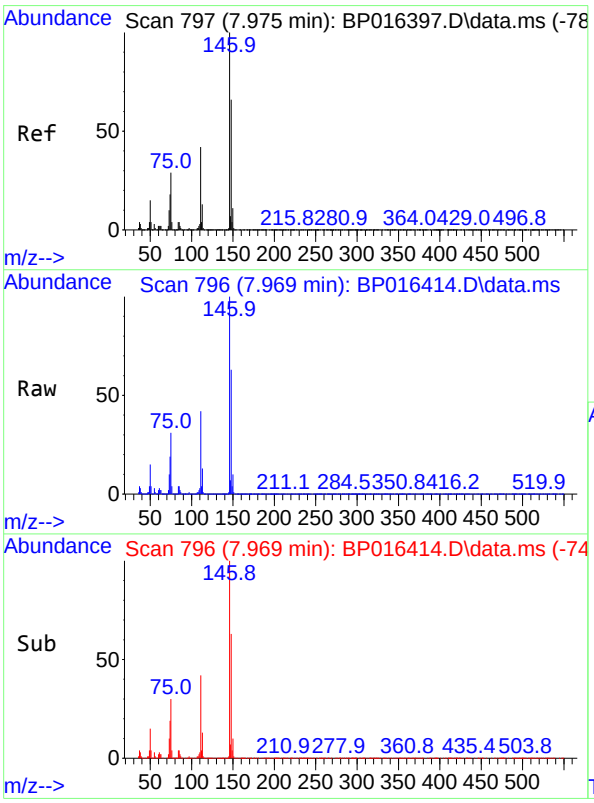
Tgt Ion: 93 Resp: 113763

Ion	Ratio	Lower	Upper
93	100		
63	70.2	49.4	89.4
95	32.4	12.9	52.9



Instrument :
BNA_P
ClientSampleId :
PB154218BSD

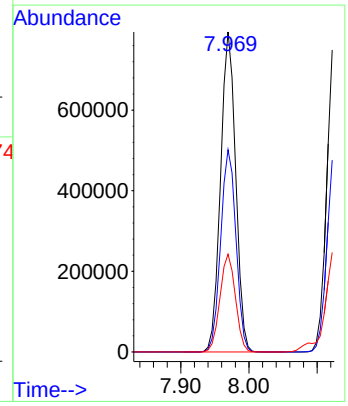
Manual Integrations APPROVED
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

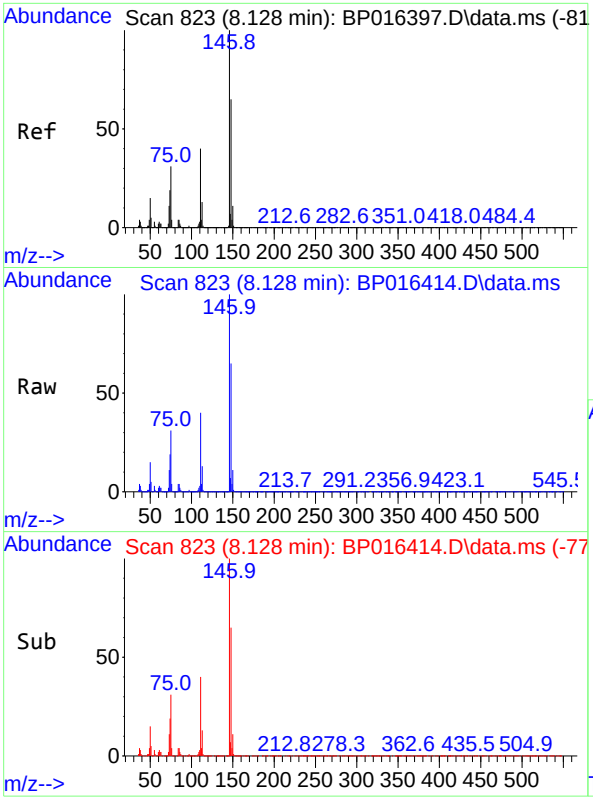


#12
1,3-Dichlorobenzene
Concen: 52.003 ng
RT: 7.969 min Scan# 796
Delta R.T. -0.006 min
Lab File: BP016414.D
Acq: 28 Jul 2023 09:48

Tgt Ion:146 Resp: 1223832

Ion	Ratio	Lower	Upper
146	100		
148	63.2	53.0	79.4
75	30.5	23.4	35.2

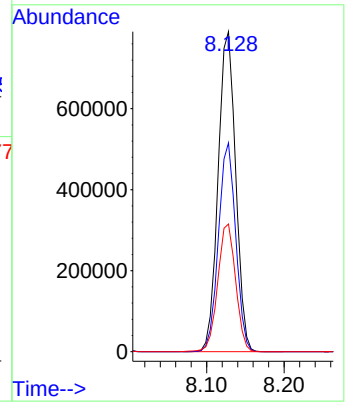




#13
1,4-Dichlorobenzene
Concen: 52.086 ng
RT: 8.128 min Scan# 8
Delta R.T. -0.000 min
Lab File: BP016414.D
Acq: 28 Jul 2023 09:48

Tgt Ion:146 Resp: 124343

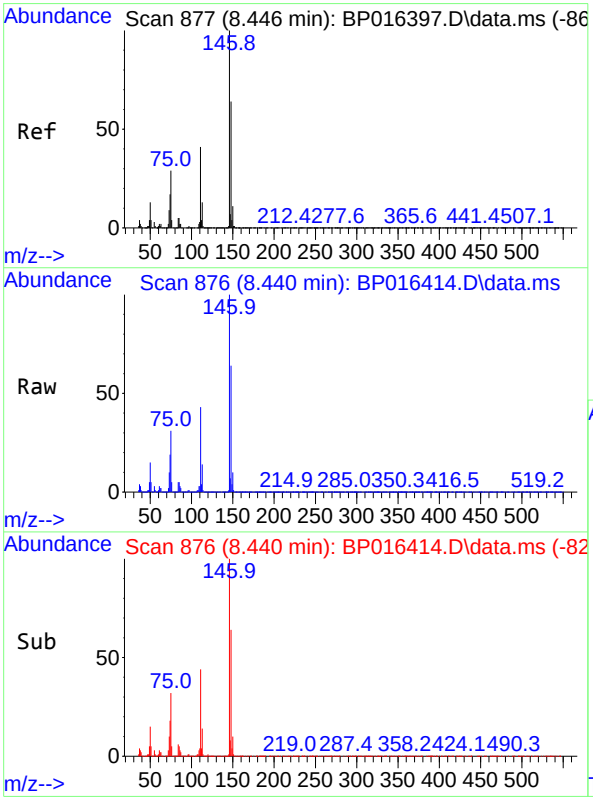
Ion	Ratio	Lower	Upper
146	100		
148	65.3	51.7	77.5
111	39.9	32.0	48.0



Instrument :
BNA_P
ClientSampleId :
PB154218BSD

Manual Integrations
APPROVED

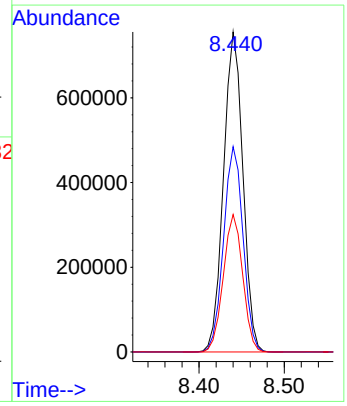
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

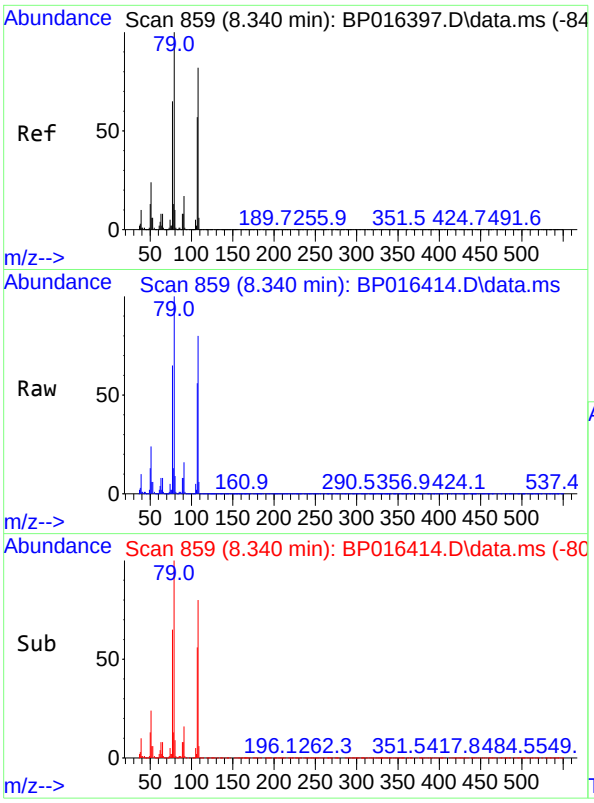


#14
1,2-Dichlorobenzene
Concen: 51.887 ng
RT: 8.440 min Scan# 876
Delta R.T. -0.006 min
Lab File: BP016414.D
Acq: 28 Jul 2023 09:48

Tgt Ion:146 Resp: 1192629

Ion	Ratio	Lower	Upper
146	100		
148	64.2	51.0	76.6
111	42.9	32.6	49.0

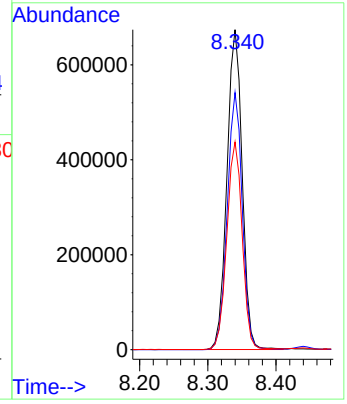




#15
Benzyl Alcohol
Concen: 53.580 ng
RT: 8.340 min Scan# 8
Delta R.T. -0.000 min
Lab File: BP016414.D
Acq: 28 Jul 2023 09:48

Tgt Ion: 79 Resp: 104904

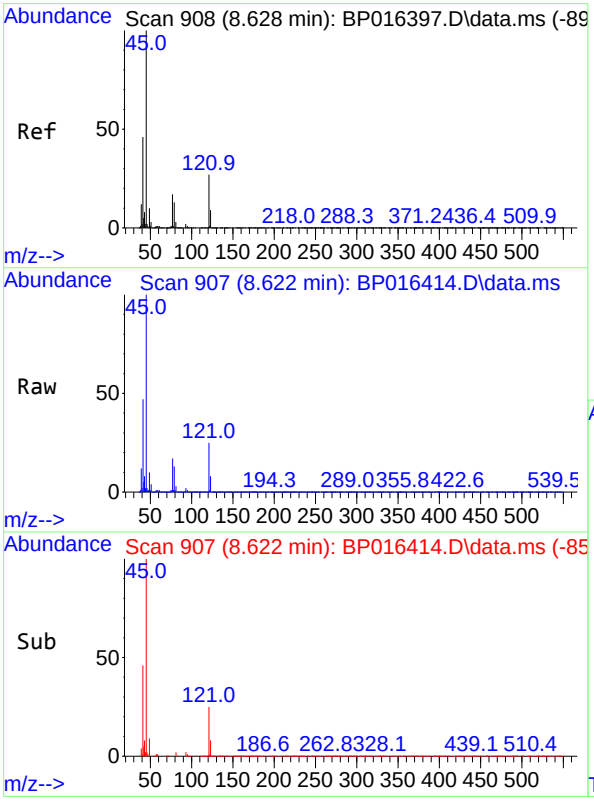
Ion	Ratio	Lower	Upper
79	100		
108	80.4	65.4	98.2
77	64.9	51.8	77.8



Instrument :
BNA_P
ClientSampleId :
PB154218BSD

Manual Integrations
APPROVED

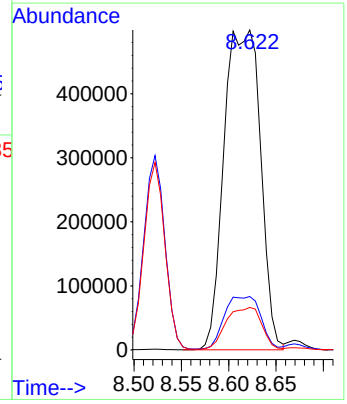
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

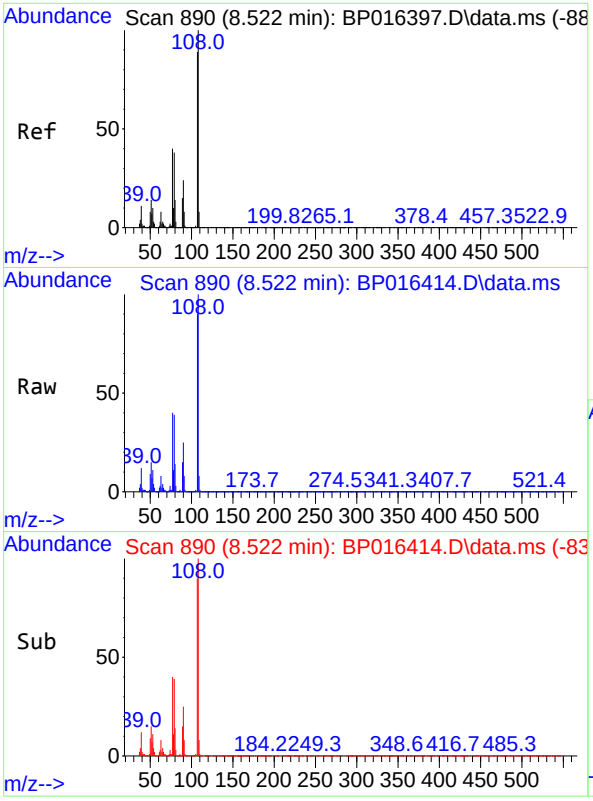


#16
2,2'-oxybis(1-Chloropropane)
Concen: 52.053 ng
RT: 8.622 min Scan# 907
Delta R.T. -0.006 min
Lab File: BP016414.D
Acq: 28 Jul 2023 09:48

Tgt Ion: 45 Resp: 1335507

Ion	Ratio	Lower	Upper
45	100		
77	16.7	0.0	37.3
79	13.3	0.0	33.3

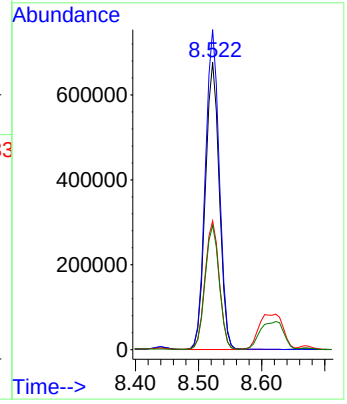




#17
2-Methylphenol
Concen: 51.643 ng
RT: 8.522 min Scan# 8
Delta R.T. -0.000 min
Lab File: BP016414.D
Acq: 28 Jul 2023 09:48

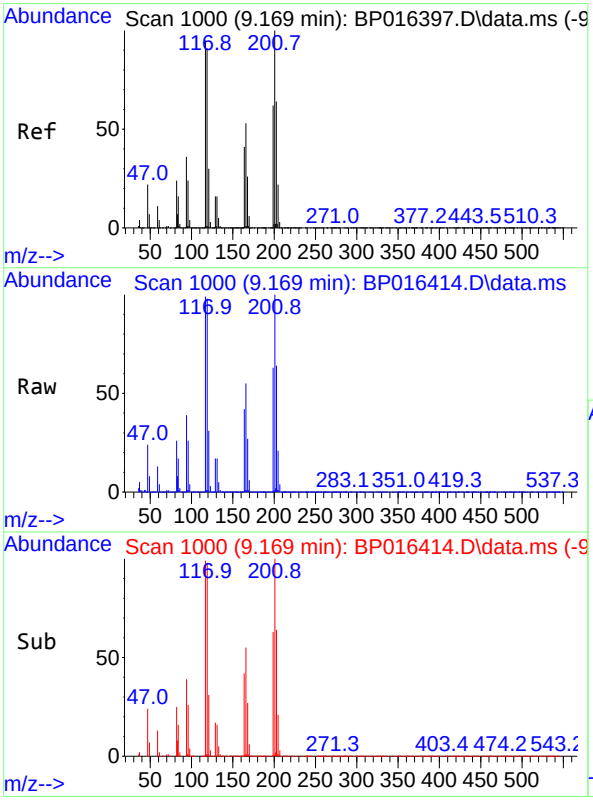
Tgt Ion:107 Resp: 103581

Ion	Ratio	Lower	Upper
107	100		
108	111.3	89.6	134.4
77	44.8	35.6	53.4
79	43.2	34.2	51.2



Instrument :
BNA_P
ClientSampleId :
PB154218BSD

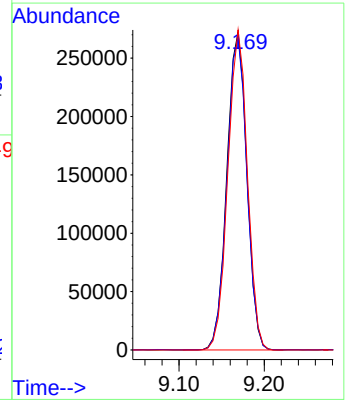
Manual Integrations APPROVED
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

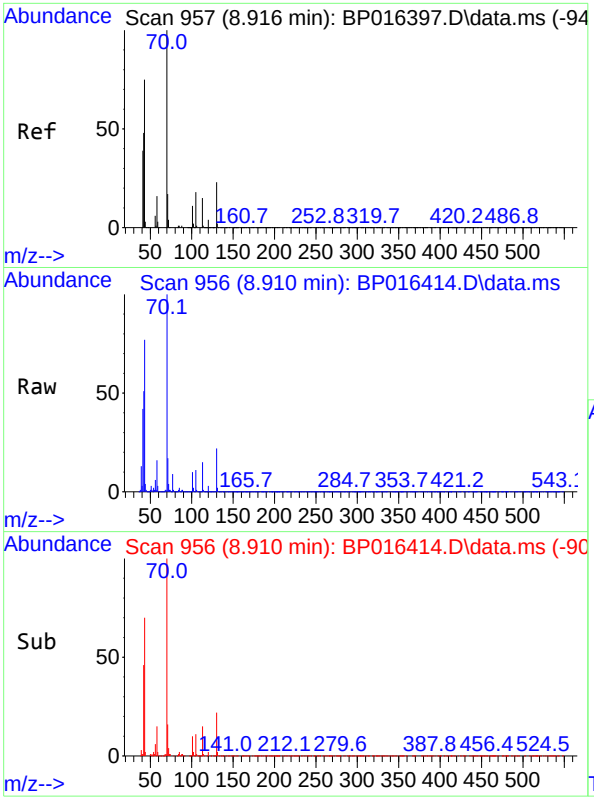


#18
Hexachloroethane
Concen: 52.203 ng
RT: 9.169 min Scan# 1000
Delta R.T. -0.000 min
Lab File: BP016414.D
Acq: 28 Jul 2023 09:48

Tgt Ion:117 Resp: 444516

Ion	Ratio	Lower	Upper
117	100		
119	98.4	76.9	115.3
201	100.7	86.2	129.4

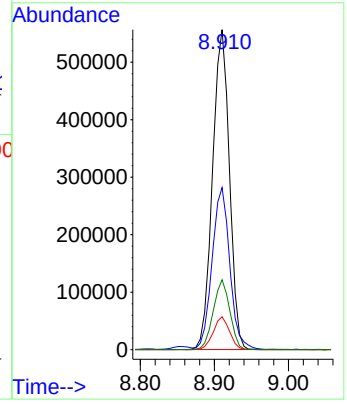




#19
n-Nitroso-di-n-propylamine
Concen: 48.983 ng
RT: 8.910 min Scan# 9
Delta R.T. -0.006 min
Lab File: BP016414.D
Acq: 28 Jul 2023 09:48

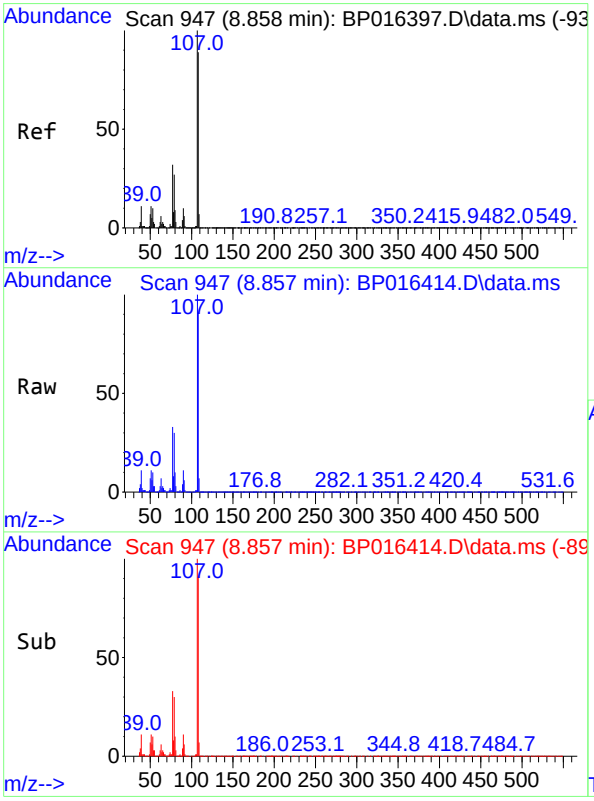
Tgt Ion: 70 Resp: 87943

Ion	Ratio	Lower	Upper
70	100		
42	50.6	39.3	58.9
101	10.3	8.6	12.8
130	21.9	18.6	28.0



Instrument :
BNA_P
ClientSampleId :
PB154218BSD

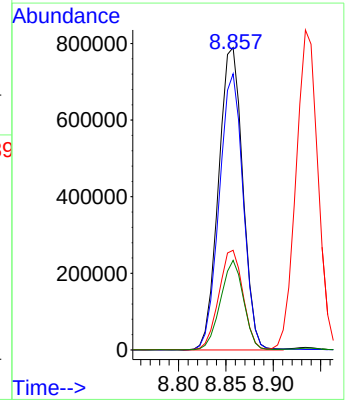
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

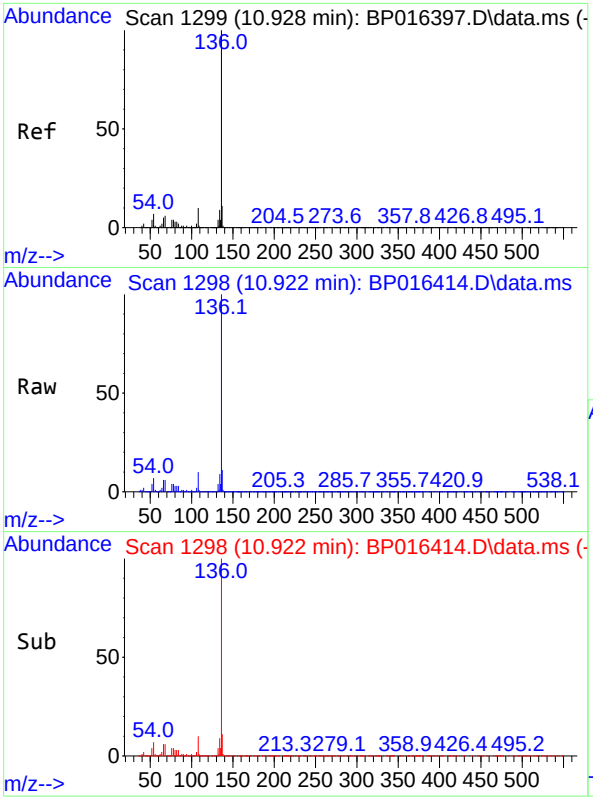


#20
3+4-Methylphenols
Concen: 51.615 ng
RT: 8.857 min Scan# 947
Delta R.T. -0.000 min
Lab File: BP016414.D
Acq: 28 Jul 2023 09:48

Tgt Ion:107 Resp: 1406017

Ion	Ratio	Lower	Upper
107	100		
108	91.3	69.1	109.1
77	33.0	12.0	52.0
79	29.6	7.5	47.5

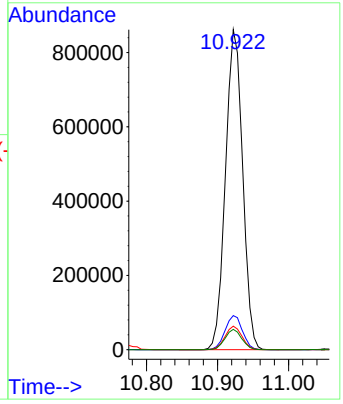




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.922 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP016414.D
Acq: 28 Jul 2023 09:48

Tgt Ion:136 Resp: 144320

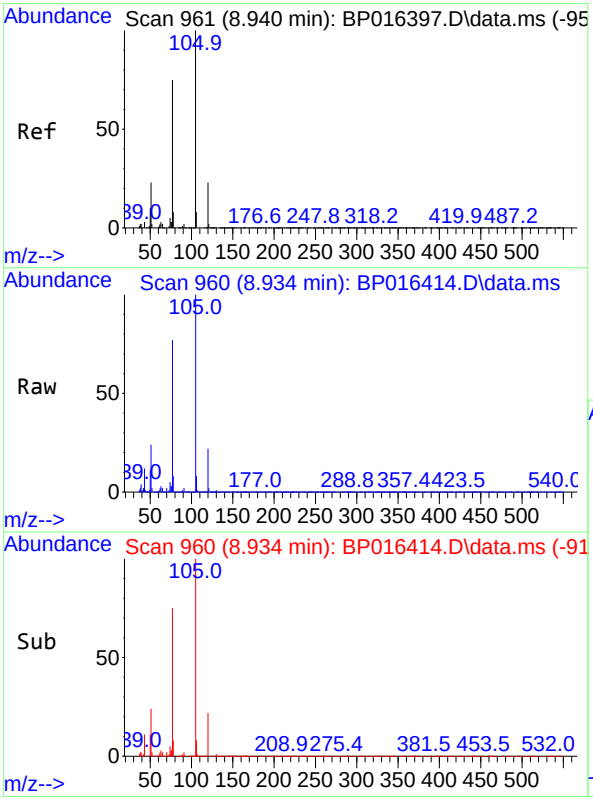
Ion	Ratio	Lower	Upper
136	100		
137	10.7	8.6	13.0
54	7.4	5.6	8.4
68	6.4	4.6	6.8



Instrument :
BNA_P
ClientSampleId :
PB154218BSD

Manual Integrations
APPROVED

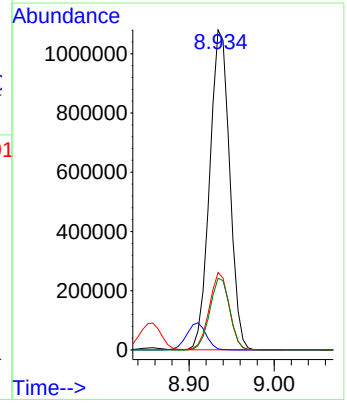
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

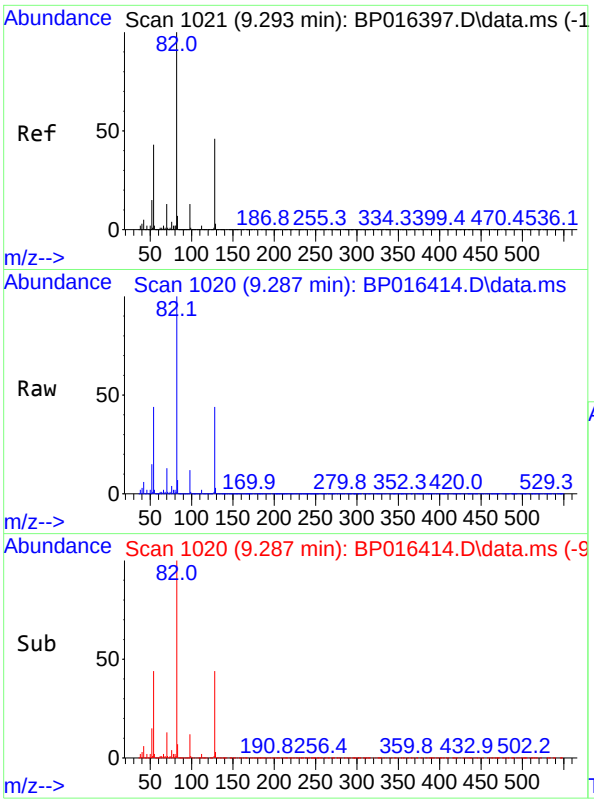


#22
Acetophenone
Concen: 48.305 ng
RT: 8.934 min Scan# 960
Delta R.T. -0.006 min
Lab File: BP016414.D
Acq: 28 Jul 2023 09:48

Tgt Ion:105 Resp: 1760137

Ion	Ratio	Lower	Upper
105	100		
71	0.4	0.2	0.2#
51	24.2	18.3	27.5
120	22.5	18.2	27.2

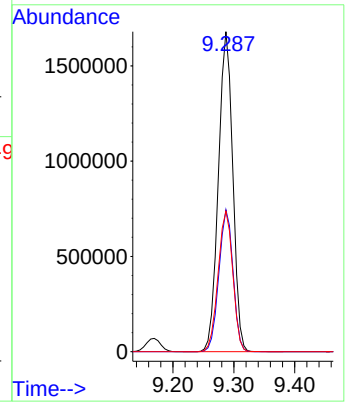




#23
Nitrobenzene-d5
Concen: 106.643 ng
RT: 9.287 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP016414.D
Acq: 28 Jul 2023 09:48

Tgt Ion: 82 Resp: 274942

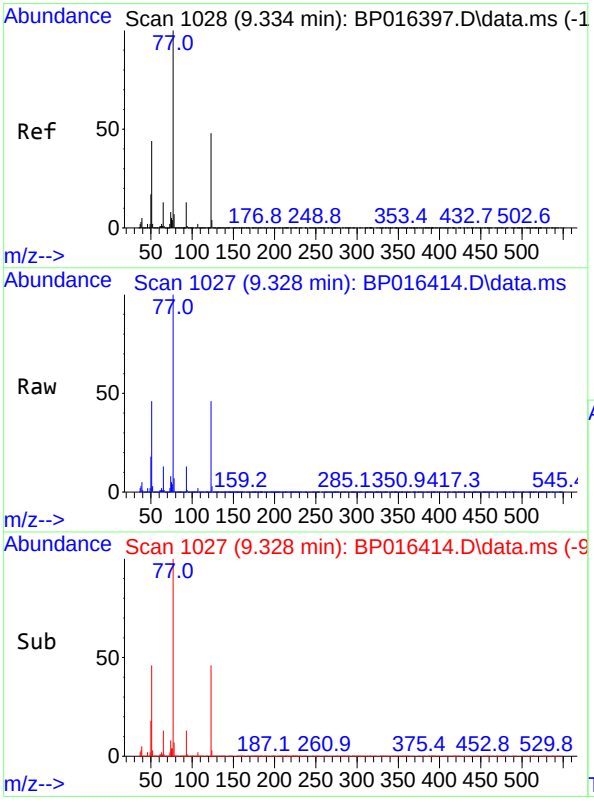
Ion	Ratio	Lower	Upper
82	100		
128	44.4	36.6	55.0
54	43.9	34.5	51.7



Instrument :
BNA_P
ClientSampleId :
PB154218BSD

Manual Integrations
APPROVED

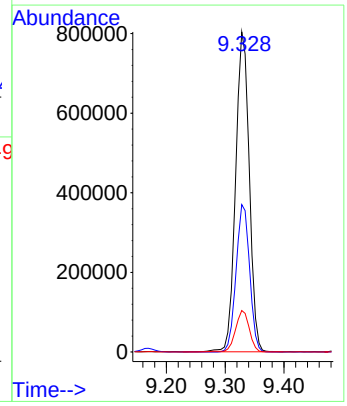
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

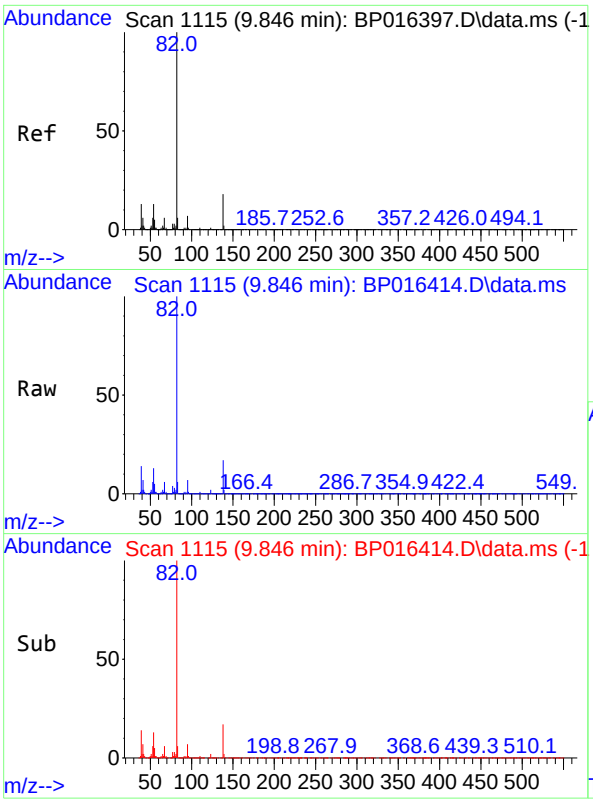


#24
Nitrobenzene
Concen: 48.881 ng
RT: 9.328 min Scan# 1027
Delta R.T. -0.006 min
Lab File: BP016414.D
Acq: 28 Jul 2023 09:48

Tgt Ion: 77 Resp: 1294375

Ion	Ratio	Lower	Upper
77	100		
123	46.0	38.6	58.0
65	13.0	10.5	15.7

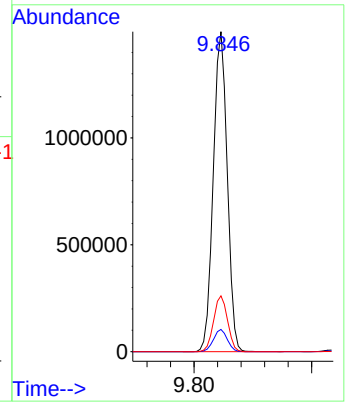




#25
Isophorone
Concen: 47.401 ng
RT: 9.846 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP016414.D
Acq: 28 Jul 2023 09:48

Tgt Ion: 82 Resp: 246727

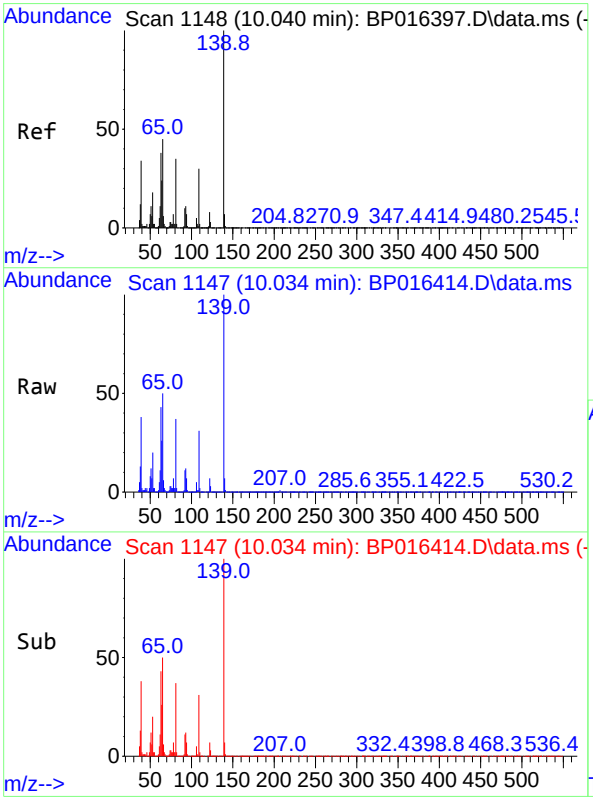
Ion	Ratio	Lower	Upper
82	100		
95	6.9	5.7	8.5
138	17.5	14.6	22.0



Instrument :
BNA_P
ClientSampleId :
PB154218BSD

Manual Integrations
APPROVED

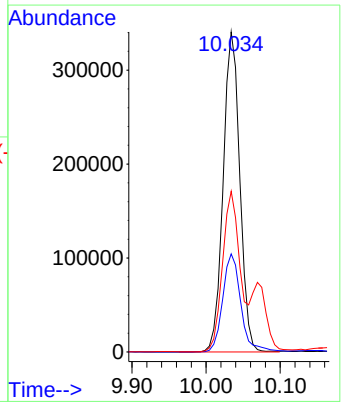
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

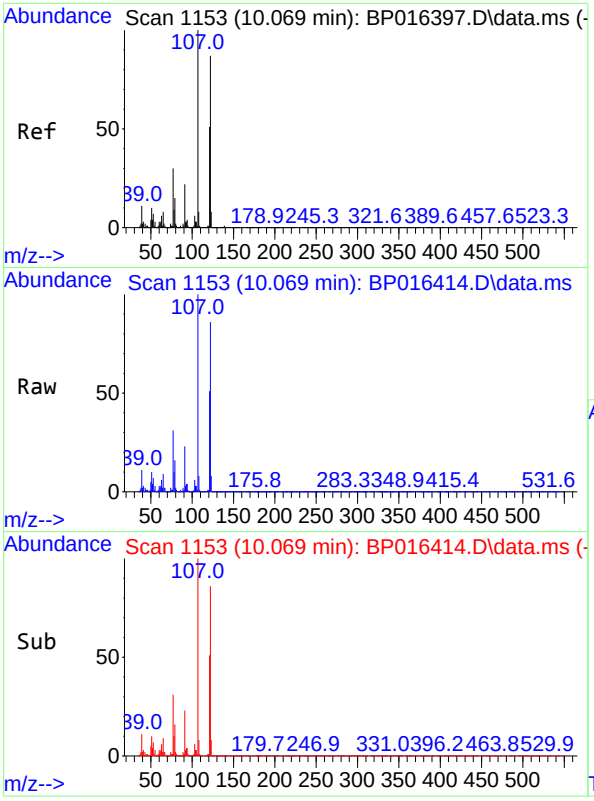


#26
2-Nitrophenol
Concen: 46.581 ng
RT: 10.034 min Scan# 1147
Delta R.T. -0.006 min
Lab File: BP016414.D
Acq: 28 Jul 2023 09:48

Tgt Ion:139 Resp: 530506

Ion	Ratio	Lower	Upper
139	100		
109	30.7	24.2	36.4
65	50.2	35.8	53.6

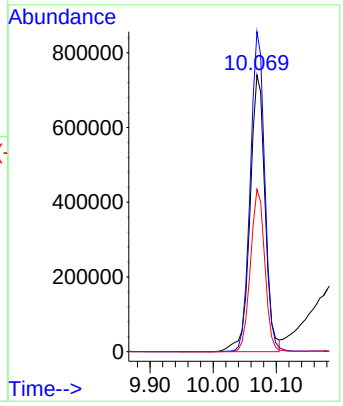




#27
2,4-Dimethylphenol
Concen: 52.478 ng
RT: 10.069 min Scan# 11
Delta R.T. -0.000 min
Lab File: BP016414.D
Acq: 28 Jul 2023 09:48

Tgt Ion:122 Resp: 122201

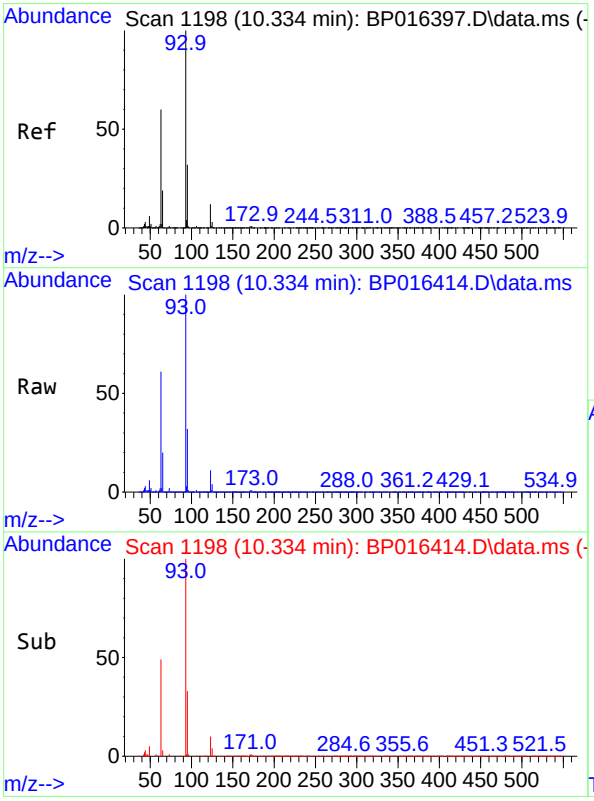
Ion	Ratio	Lower	Upper
122	100		
107	115.7	91.9	137.9
121	58.7	47.2	70.8



Instrument :
BNA_P
ClientSampleId :
PB154218BSD

Manual Integrations APPROVED

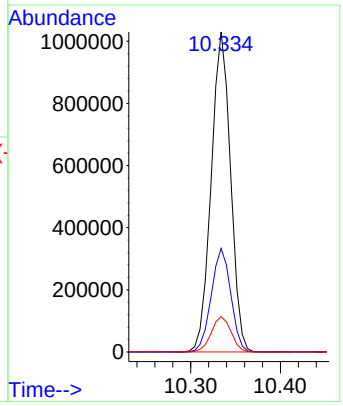
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

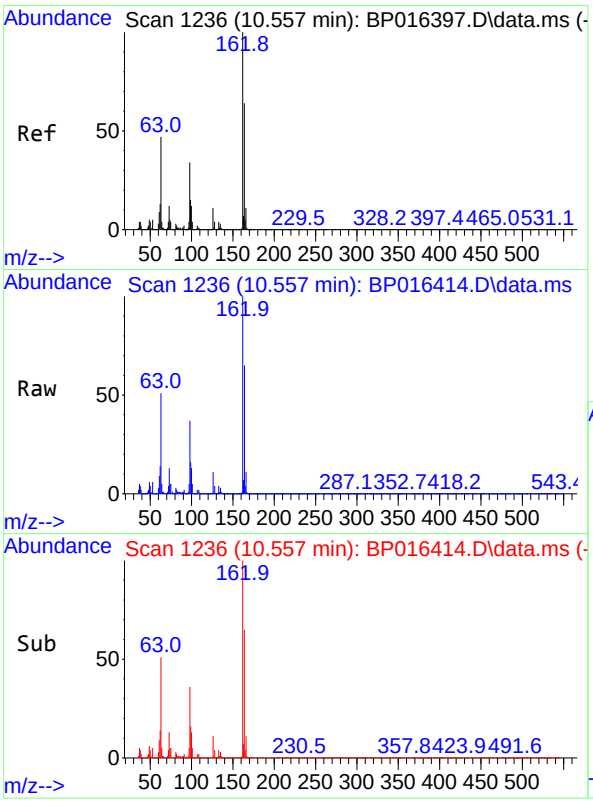


#28
bis(2-Chloroethoxy)methane
Concen: 48.271 ng
RT: 10.334 min Scan# 1198
Delta R.T. -0.000 min
Lab File: BP016414.D
Acq: 28 Jul 2023 09:48

Tgt Ion: 93 Resp: 1539023

Ion	Ratio	Lower	Upper
93	100		
95	32.4	25.8	38.8
123	11.0	9.4	14.0

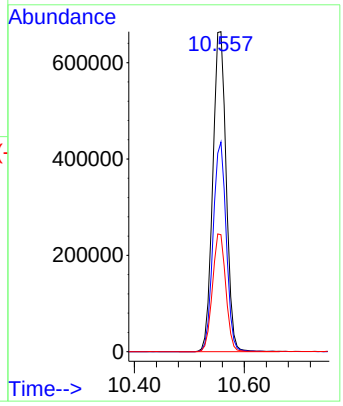




#29
2,4-Dichlorophenol
Concen: 51.534 ng
RT: 10.557 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP016414.D
Acq: 28 Jul 2023 09:48

Tgt Ion:162 Resp: 112307

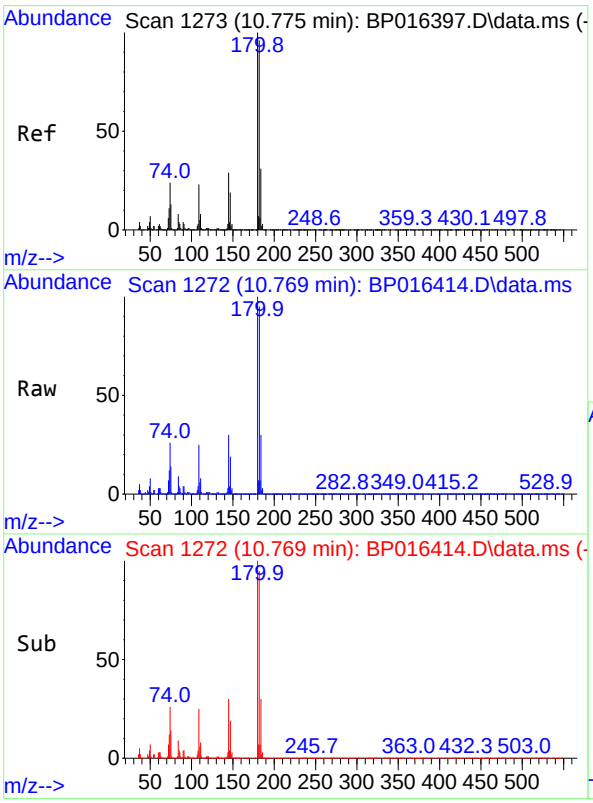
Ion	Ratio	Lower	Upper
162	100		
164	65.5	44.2	84.2
98	36.5	13.7	53.7



Instrument :
BNA_P
ClientSampleId :
PB154218BSD

Manual Integrations
APPROVED

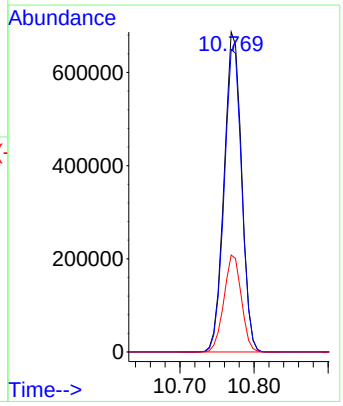
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

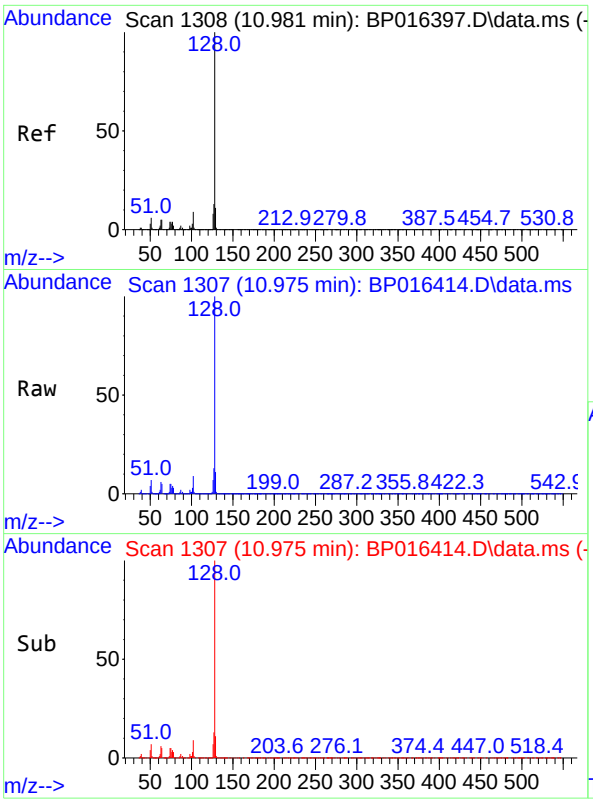


#30
1,2,4-Trichlorobenzene
Concen: 47.641 ng
RT: 10.769 min Scan# 1272
Delta R.T. -0.006 min
Lab File: BP016414.D
Acq: 28 Jul 2023 09:48

Tgt Ion:180 Resp: 1124535

Ion	Ratio	Lower	Upper
180	100		
182	94.5	77.1	115.7
145	30.3	22.9	34.3

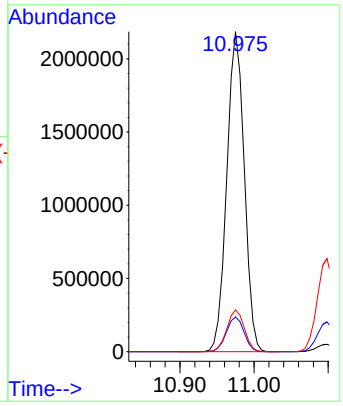




#31
Naphthalene
Concen: 47.377 ng
RT: 10.975 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP016414.D
Acq: 28 Jul 2023 09:48

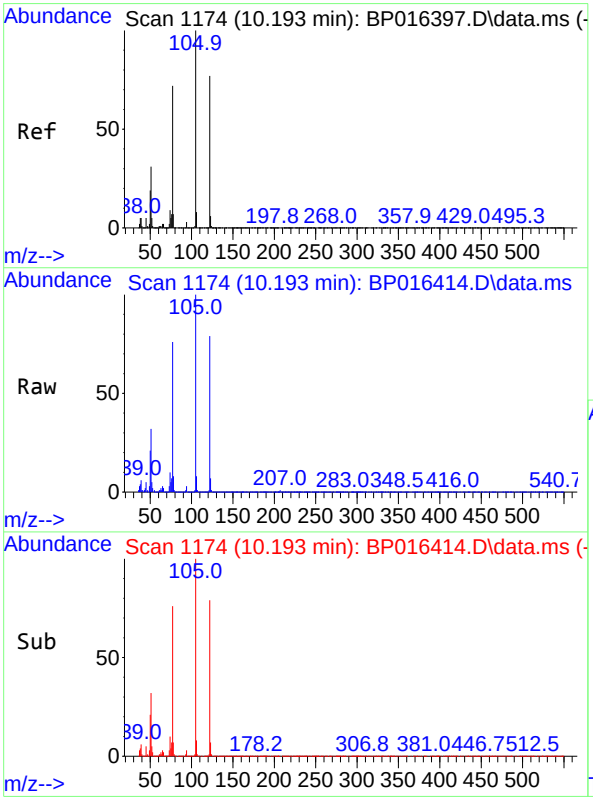
Tgt Ion:128 Resp: 357650

Ion	Ratio	Lower	Upper
128	100		
129	10.9	8.6	12.8
127	13.1	10.4	15.6



Instrument :
BNA_P
ClientSampleId :
PB154218BSD

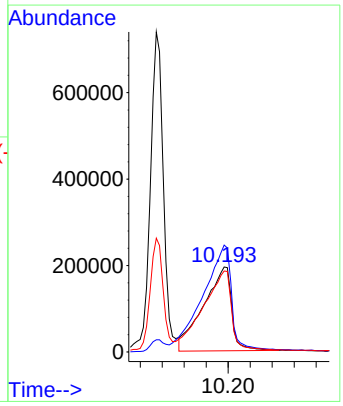
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

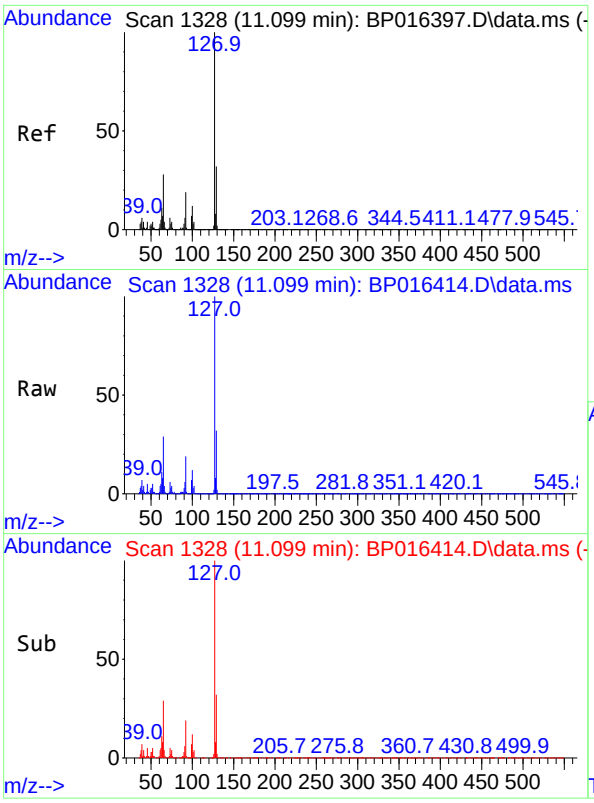


#32
Benzoic acid
Concen: 45.707 ng
RT: 10.193 min Scan# 1174
Delta R.T. -0.000 min
Lab File: BP016414.D
Acq: 28 Jul 2023 09:48

Tgt Ion:122 Resp: 693027

Ion	Ratio	Lower	Upper
122	100		
105	126.0	105.2	145.2
77	95.4	72.2	112.2

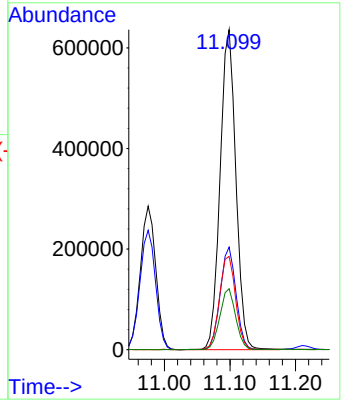




#33
4-Chloroaniline
Concen: 31.084 ng
RT: 11.099 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP016414.D
Acq: 28 Jul 2023 09:48

Tgt Ion:127 Resp: 105845

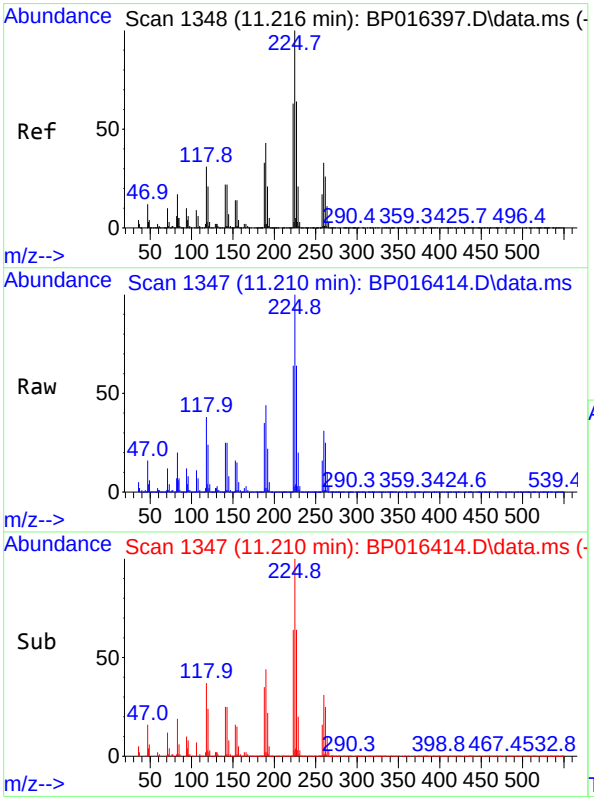
Ion	Ratio	Lower	Upper
127	100		
129	32.0	25.8	38.8
65	29.2	22.7	34.1
92	19.1	14.9	22.3



Instrument :
BNA_P
ClientSampleId :
PB154218BSD

Manual Integrations
APPROVED

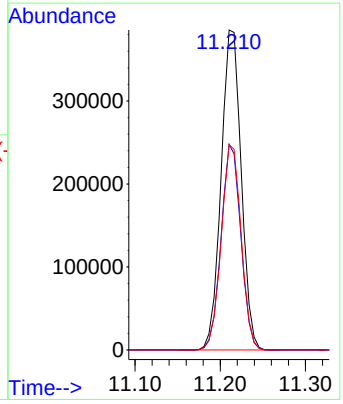
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

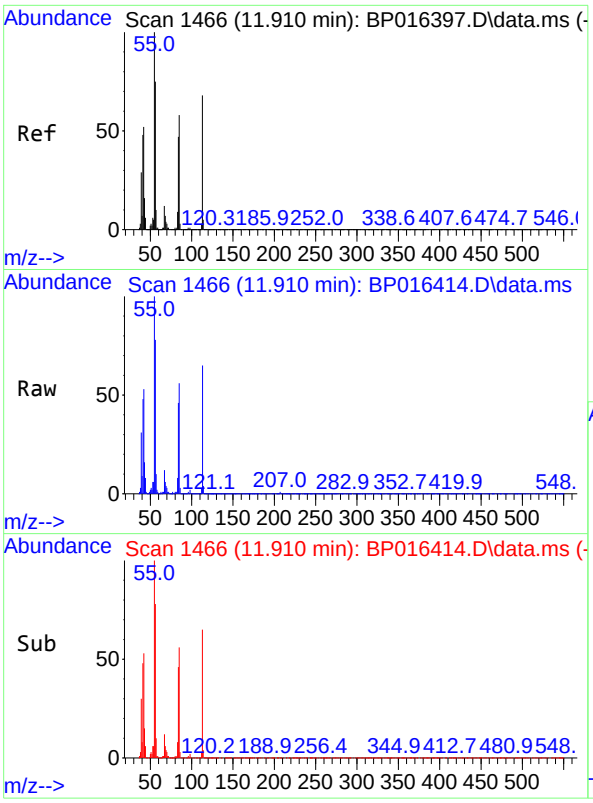


#34
Hexachlorobutadiene
Concen: 45.252 ng
RT: 11.210 min Scan# 1347
Delta R.T. -0.006 min
Lab File: BP016414.D
Acq: 28 Jul 2023 09:48

Tgt Ion:225 Resp: 632400

Ion	Ratio	Lower	Upper
225	100		
223	64.3	50.2	75.4
227	64.1	51.0	76.6





#35
Caprolactam
Concen: 51.007 ng m
RT: 11.910 min Scan# 14
Delta R.T. -0.000 min
Lab File: BP016414.D
Acq: 28 Jul 2023 09:48

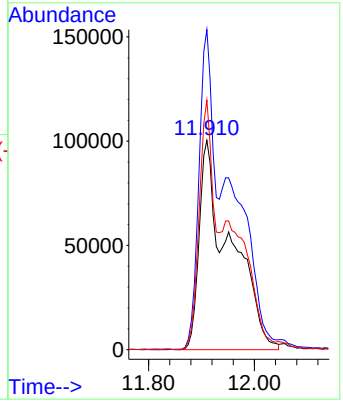
Tgt Ion:113 Resp: 40618

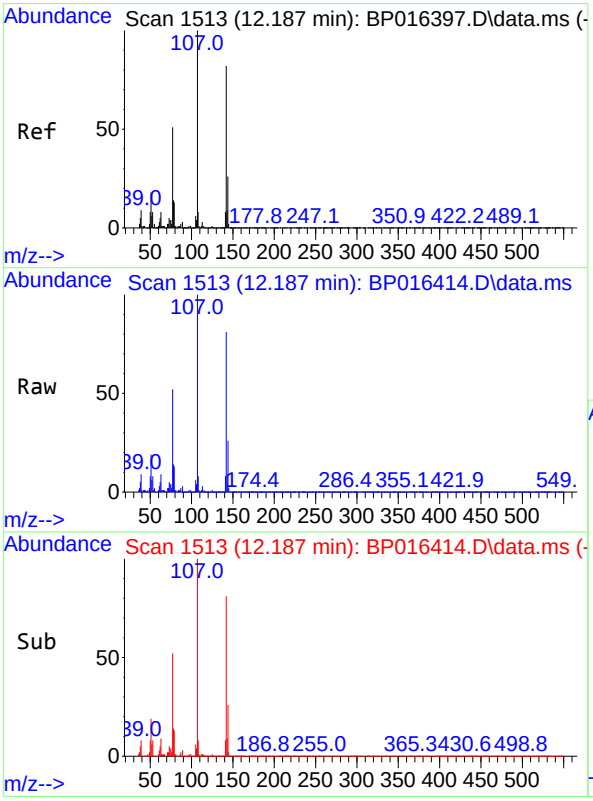
Ion	Ratio	Lower	Upper
113	100		
55	152.9	128.0	168.0
56	119.2	91.3	131.3

Instrument :
BNA_P
ClientSampleId :
PB154218BSD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

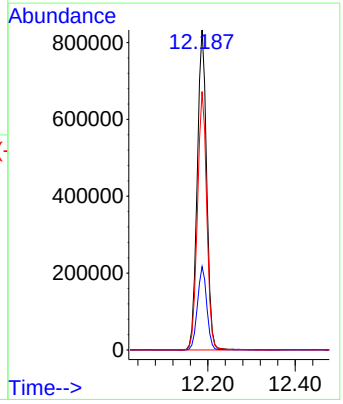


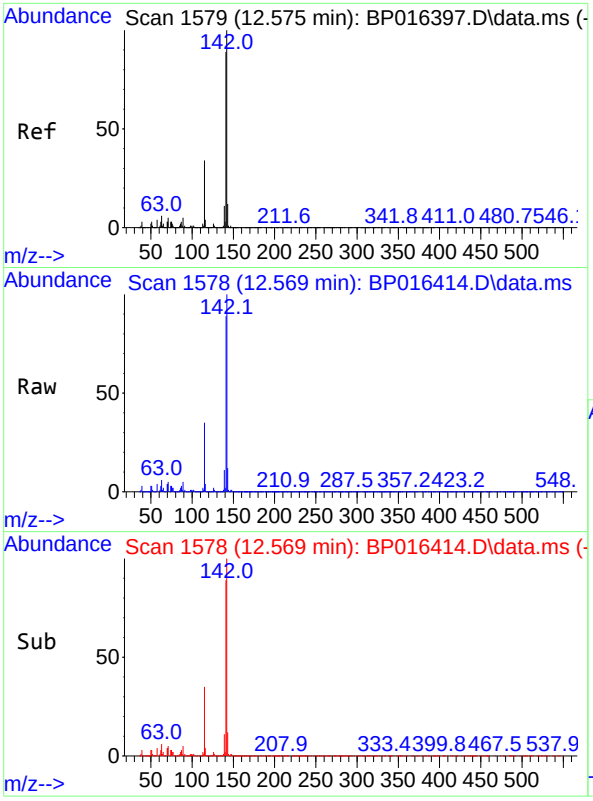


#36
4-Chloro-3-methylphenol
Concen: 51.617 ng
RT: 12.187 min Scan# 1513
Delta R.T. -0.000 min
Lab File: BP016414.D
Acq: 28 Jul 2023 09:48

Tgt Ion:107 Resp: 1250382

Ion	Ratio	Lower	Upper
107	100		
144	26.1	21.0	31.6
142	80.8	65.6	98.4

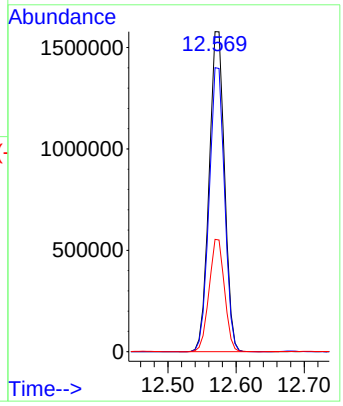




#37
2-Methylnaphthalene
Concen: 45.336 ng
RT: 12.569 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP016414.D
Acq: 28 Jul 2023 09:48

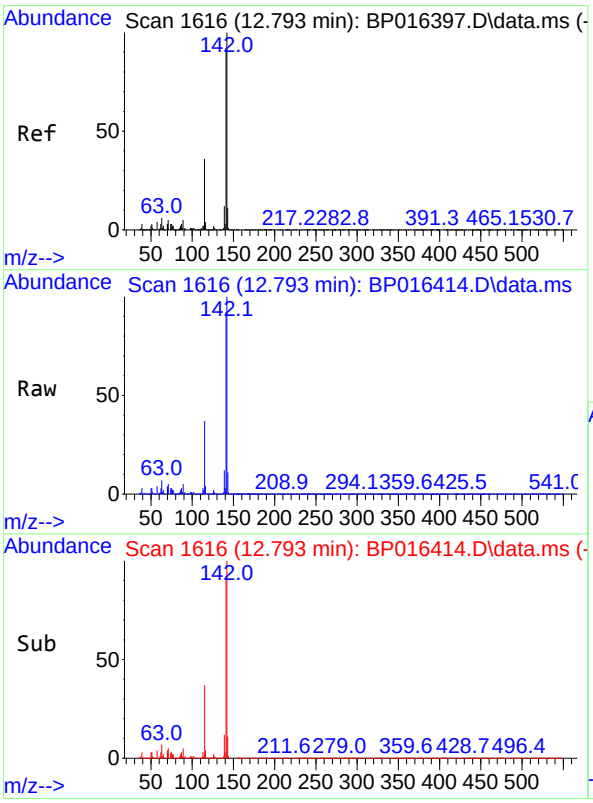
Tgt Ion:142 Resp: 248626

Ion	Ratio	Lower	Upper
142	100		
141	88.7	71.4	107.2
115	35.1	27.0	40.4



Instrument :
BNA_P
ClientSampleId :
PB154218BSD

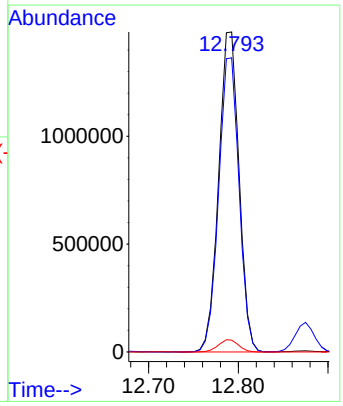
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

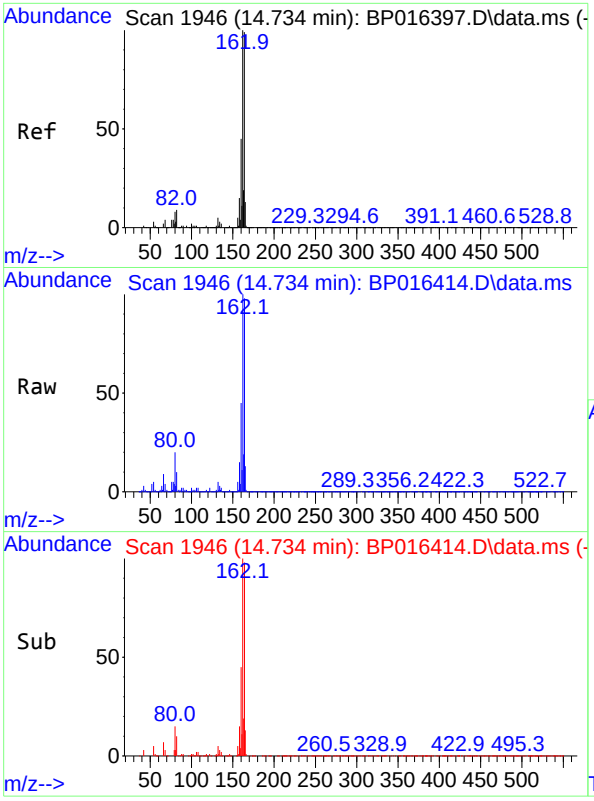


#38
1-Methylnaphthalene
Concen: 45.494 ng
RT: 12.793 min Scan# 1616
Delta R.T. -0.000 min
Lab File: BP016414.D
Acq: 28 Jul 2023 09:48

Tgt Ion:142 Resp: 2339047

Ion	Ratio	Lower	Upper
142	100		
141	91.9	73.8	110.6
116	3.7	2.9	4.3

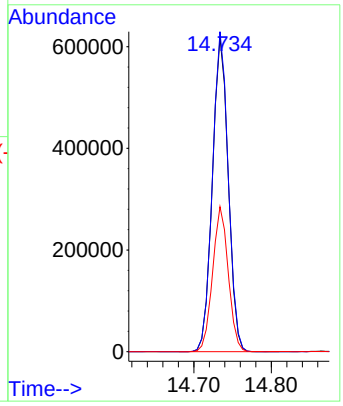




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.734 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP016414.D
Acq: 28 Jul 2023 09:48

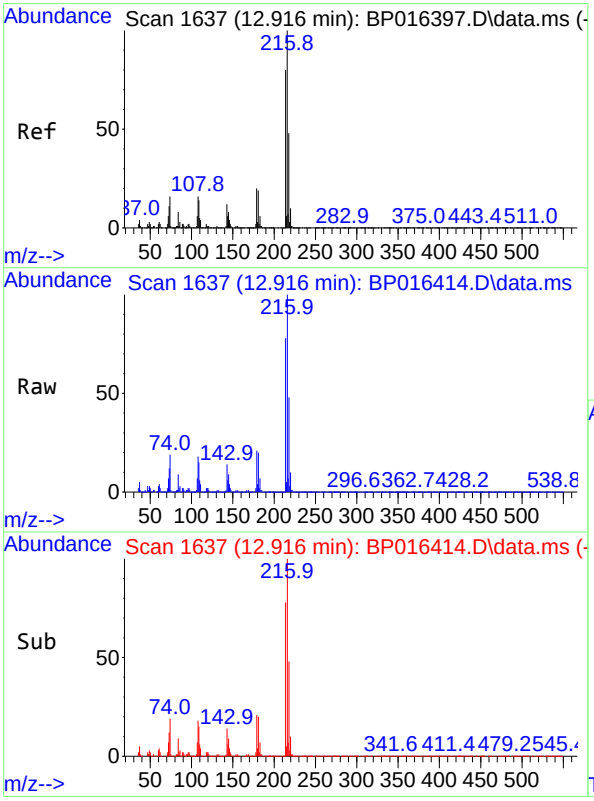
Tgt Ion:164 Resp: 87787

Ion	Ratio	Lower	Upper
164	100		
162	101.9	81.0	121.6
160	46.1	36.6	55.0



Instrument :
BNA_P
ClientSampleId :
PB154218BSD

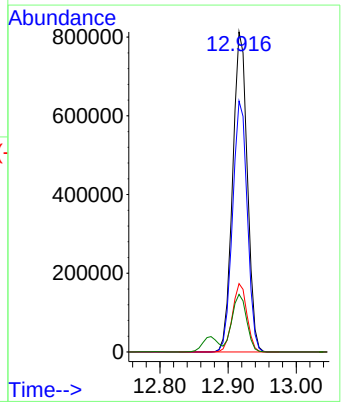
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

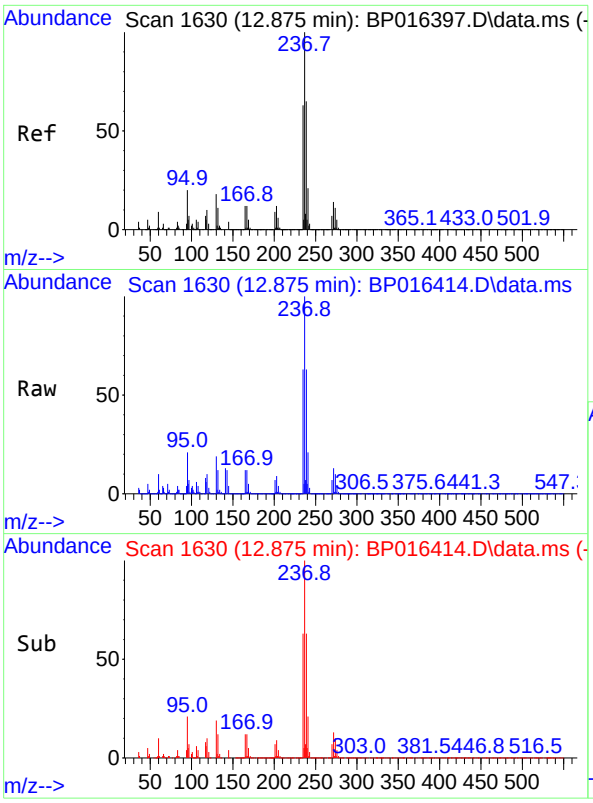


#40
1,2,4,5-Tetrachlorobenzene
Concen: 45.560 ng
RT: 12.916 min Scan# 1637
Delta R.T. -0.000 min
Lab File: BP016414.D
Acq: 28 Jul 2023 09:48

Tgt Ion:216 Resp: 1215429

Ion	Ratio	Lower	Upper
216	100		
214	78.8	62.8	94.2
179	21.2	16.0	24.0
108	17.9	12.6	19.0

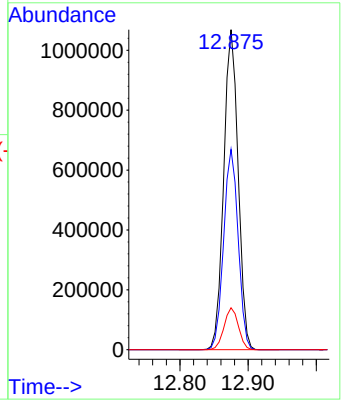




#41
Hexachlorocyclopentadiene
Concen: 117.237 ng
RT: 12.875 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP016414.D
Acq: 28 Jul 2023 09:48

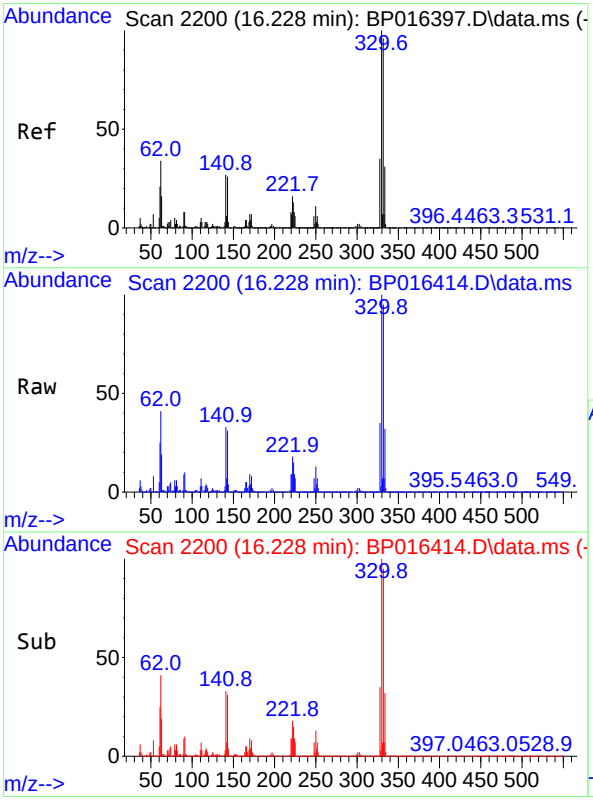
Tgt Ion:237 Resp: 157081

Ion	Ratio	Lower	Upper
237	100		
235	62.6	42.7	82.7
272	13.1	0.0	33.5



Instrument :
BNA_P
ClientSampleId :
PB154218BSD

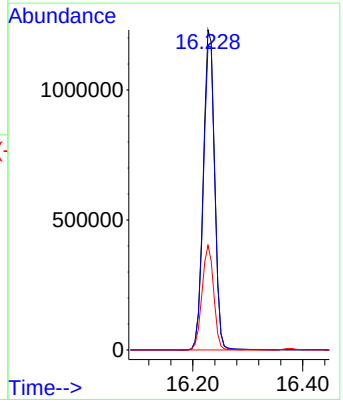
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

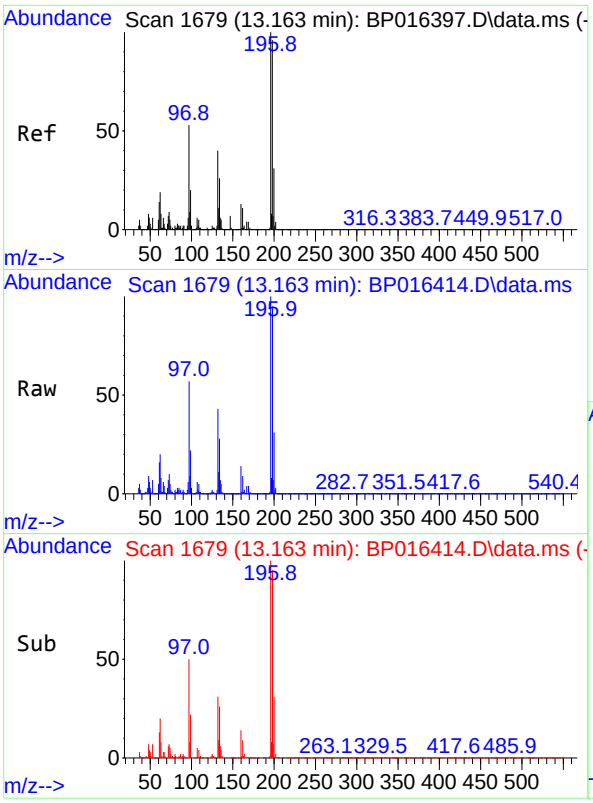


#42
2,4,6-Tribromophenol
Concen: 136.225 ng
RT: 16.228 min Scan# 2200
Delta R.T. -0.000 min
Lab File: BP016414.D
Acq: 28 Jul 2023 09:48

Tgt Ion:330 Resp: 1759316

Ion	Ratio	Lower	Upper
330	100		
332	96.7	77.8	116.8
141	33.6	22.6	34.0

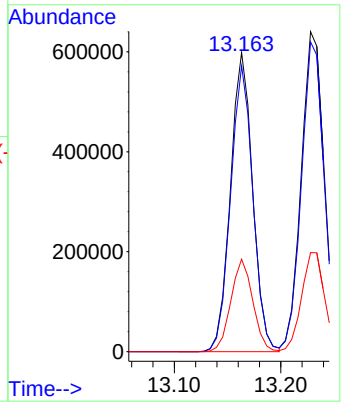




#43
2,4,6-Trichlorophenol
Concen: 50.725 ng
RT: 13.163 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP016414.D
Acq: 28 Jul 2023 09:48

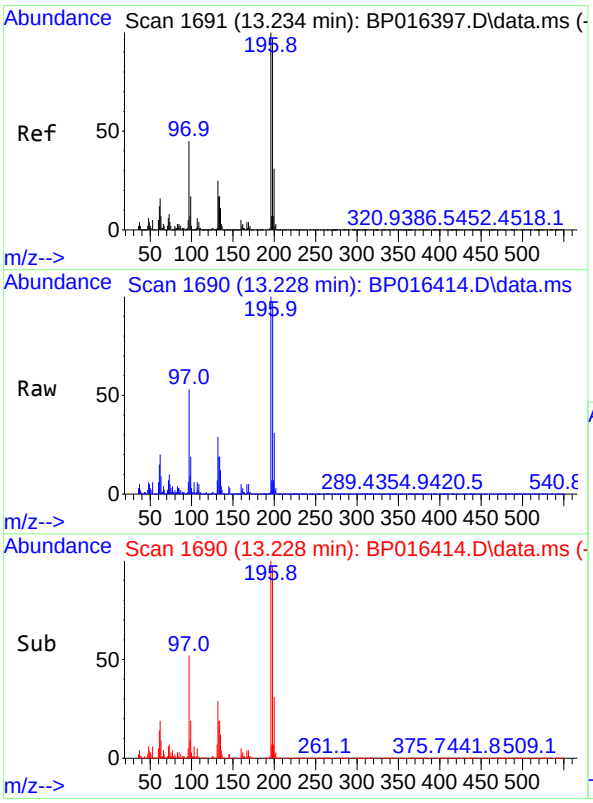
Tgt Ion:196 Resp: 86828

Ion	Ratio	Lower	Upper
196	100		
198	95.5	77.0	115.4
200	30.9	24.5	36.7



Instrument :
BNA_P
ClientSampleId :
PB154218BSD

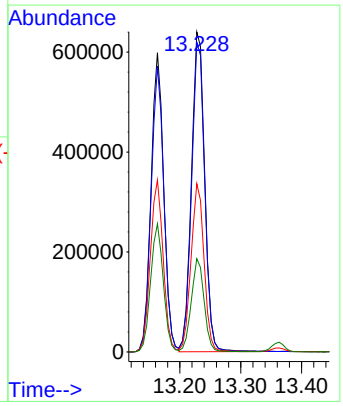
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

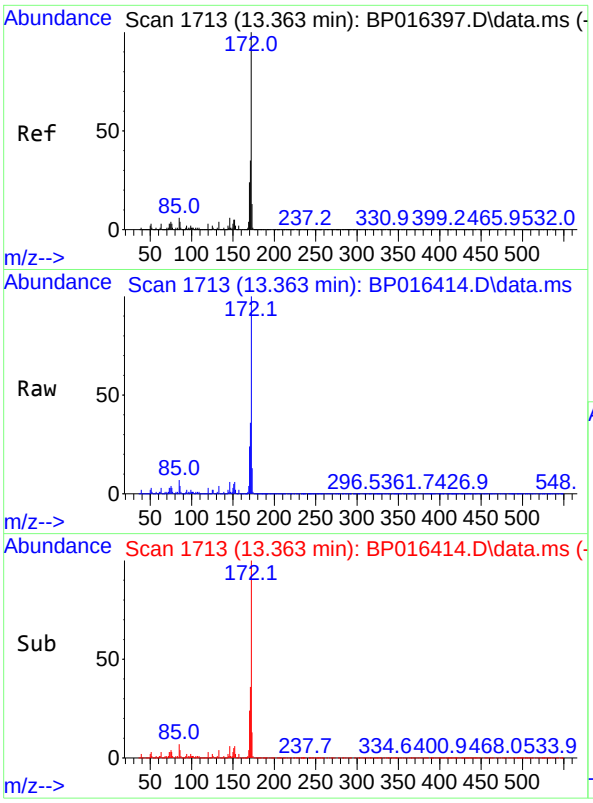


#44
2,4,5-Trichlorophenol
Concen: 46.534 ng
RT: 13.228 min Scan# 1690
Delta R.T. -0.006 min
Lab File: BP016414.D
Acq: 28 Jul 2023 09:48

Tgt Ion:196 Resp: 966383

Ion	Ratio	Lower	Upper
196	100		
198	96.8	77.3	115.9
97	52.6	36.2	54.4
132	29.1	20.2	30.4

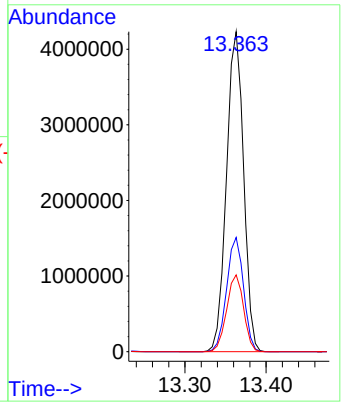




#45
2-Fluorobiphenyl
Concen: 101.149 ng
RT: 13.363 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP016414.D
Acq: 28 Jul 2023 09:48

Tgt Ion:172 Resp: 619358

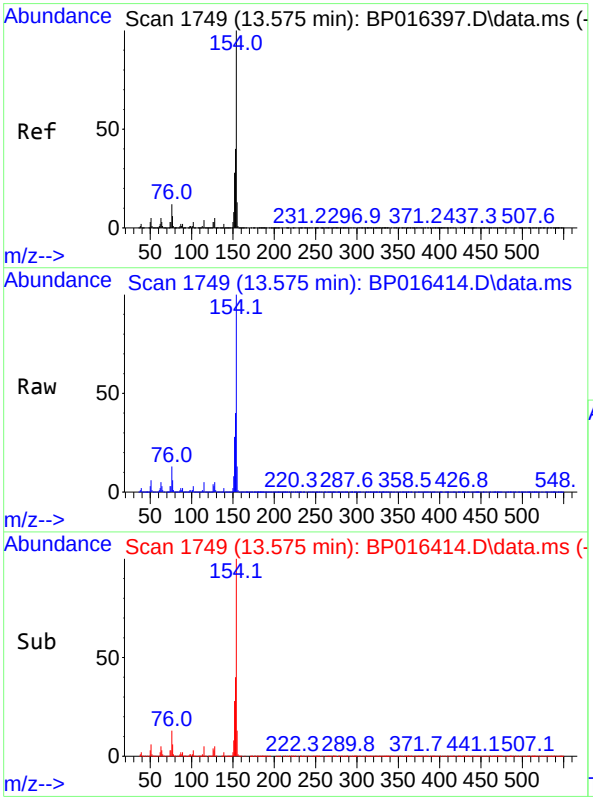
Ion	Ratio	Lower	Upper
172	100		
171	35.7	28.2	42.2
170	24.0	19.1	28.7



Instrument :
BNA_P
ClientSampleId :
PB154218BSD

Manual Integrations
APPROVED

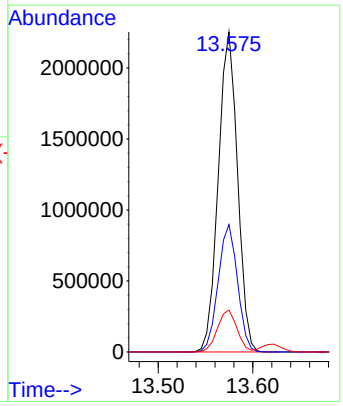
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

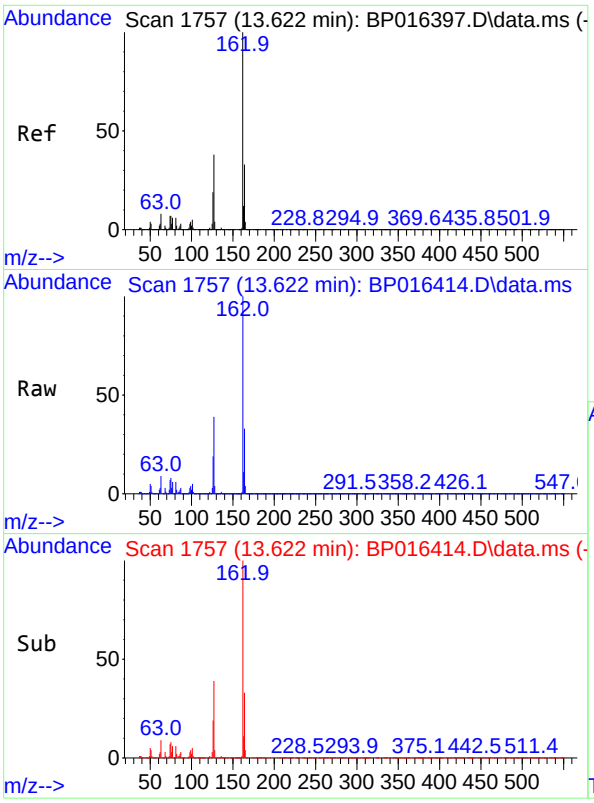


#46
1,1'-Biphenyl
Concen: 47.562 ng
RT: 13.575 min Scan# 1749
Delta R.T. -0.000 min
Lab File: BP016414.D
Acq: 28 Jul 2023 09:48

Tgt Ion:154 Resp: 3182765

Ion	Ratio	Lower	Upper
154	100		
153	39.8	20.1	60.1
76	13.1	0.0	32.5

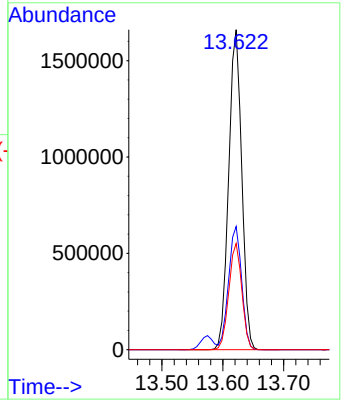




#47
2-Chloronaphthalene
Concen: 49.013 ng
RT: 13.622 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP016414.D
Acq: 28 Jul 2023 09:48

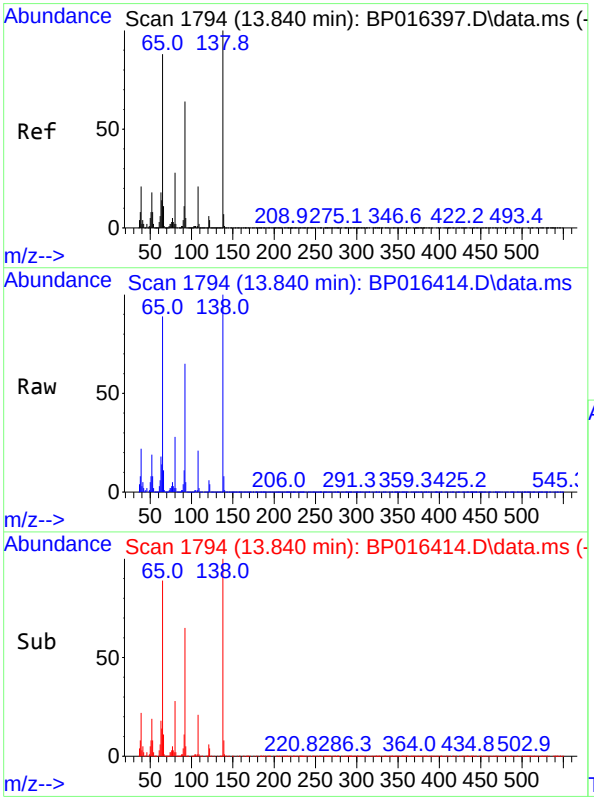
Tgt Ion:162 Resp: 247444

Ion	Ratio	Lower	Upper
162	100		
127	38.5	30.1	45.1
164	33.2	26.6	39.8



Instrument :
BNA_P
ClientSampleId :
PB154218BSD

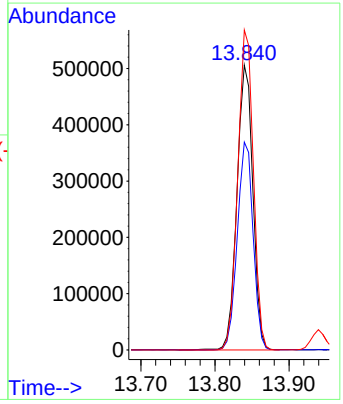
Manual Integrations APPROVED
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

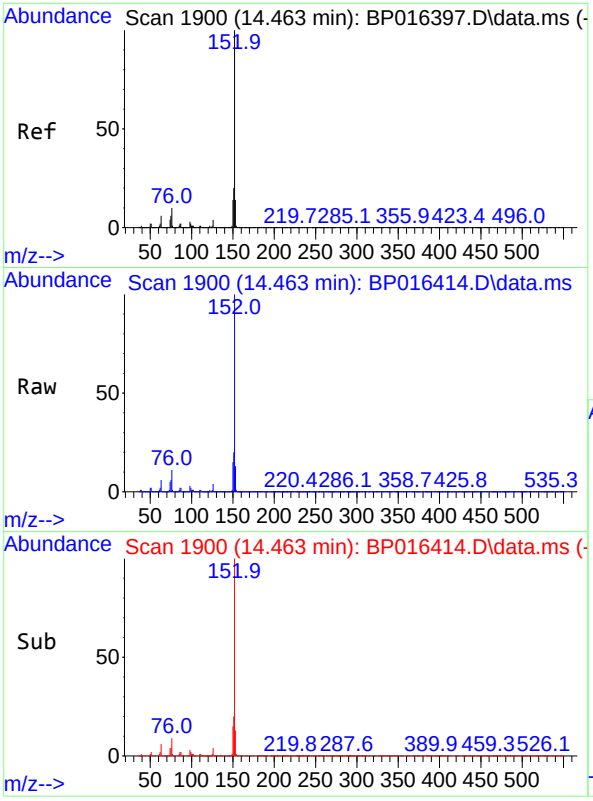


#48
2-Nitroaniline
Concen: 52.969 ng
RT: 13.840 min Scan# 1794
Delta R.T. -0.000 min
Lab File: BP016414.D
Acq: 28 Jul 2023 09:48

Tgt Ion: 65 Resp: 753795

Ion	Ratio	Lower	Upper
65	100		
92	73.0	58.2	87.4
138	112.3	91.3	136.9

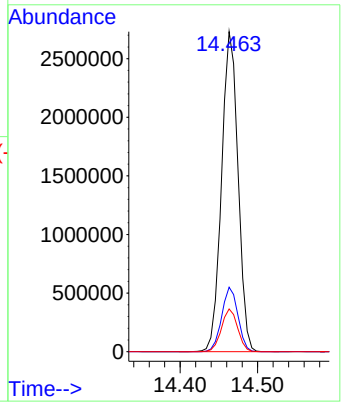




#49
Acenaphthylene
Concen: 48.075 ng
RT: 14.463 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP016414.D
Acq: 28 Jul 2023 09:48

Tgt Ion:152 Resp: 402703

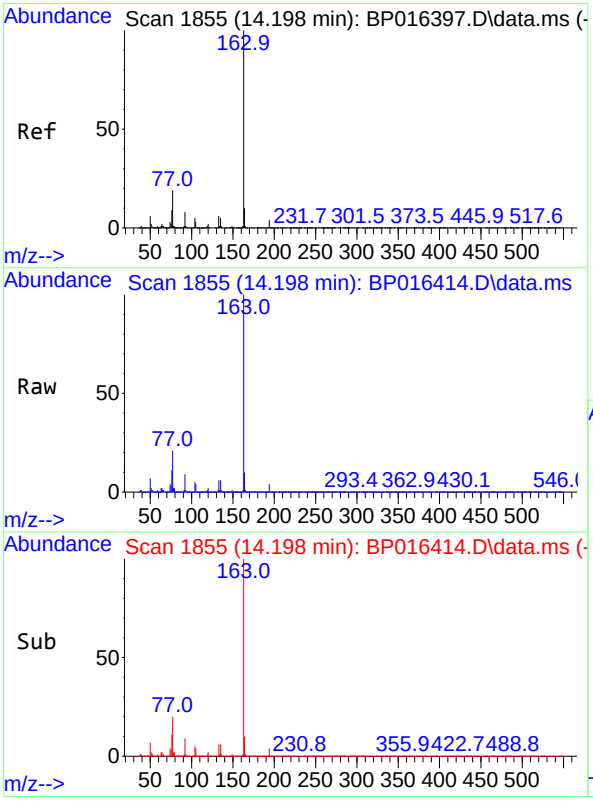
Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.2	24.4
153	13.4	10.8	16.2



Instrument :
BNA_P
ClientSampleId :
PB154218BSD

Manual Integrations
APPROVED

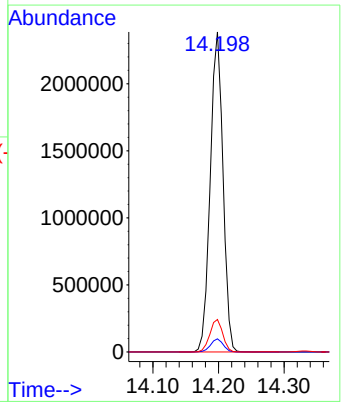
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

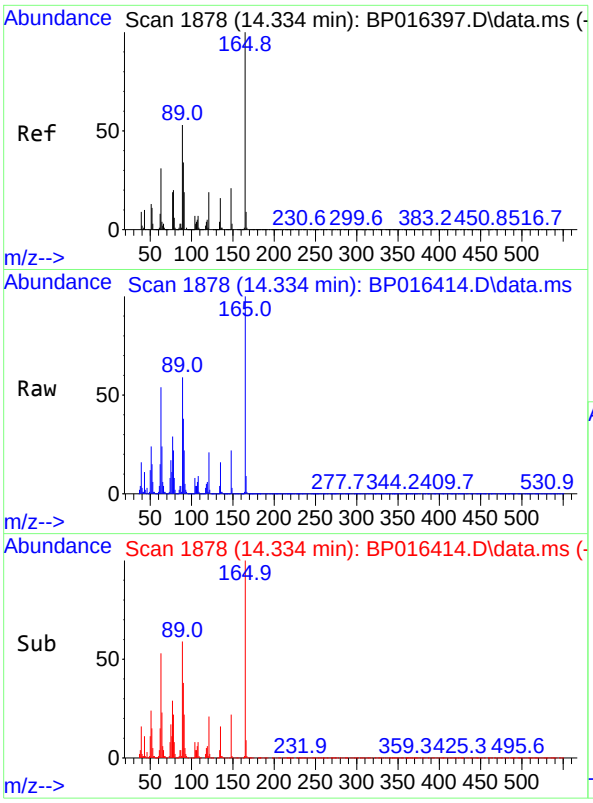


#50
Dimethylphthalate
Concen: 47.063 ng
RT: 14.198 min Scan# 1855
Delta R.T. -0.000 min
Lab File: BP016414.D
Acq: 28 Jul 2023 09:48

Tgt Ion:163 Resp: 3219581

Ion	Ratio	Lower	Upper
163	100		
194	4.1	3.4	5.2
164	10.2	8.2	12.2





#51
2,6-Dinitrotoluene
Concen: 49.332 ng
RT: 14.334 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP016414.D
Acq: 28 Jul 2023 09:48

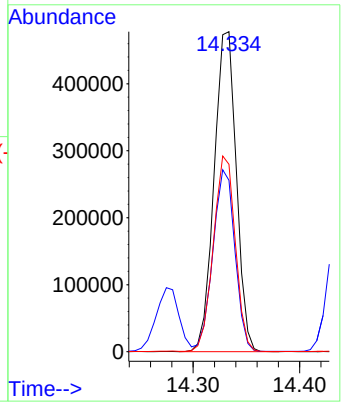
Tgt Ion:165 Resp: 69137

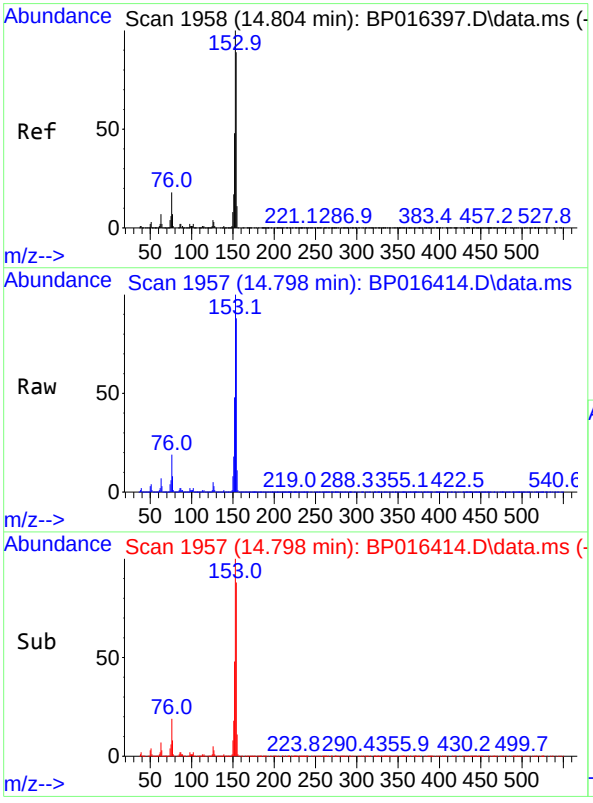
Ion	Ratio	Lower	Upper
165	100		
63	53.6	39.1	58.7
89	58.6	42.5	63.7

Instrument :
BNA_P
ClientSampleId :
PB154218BSD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

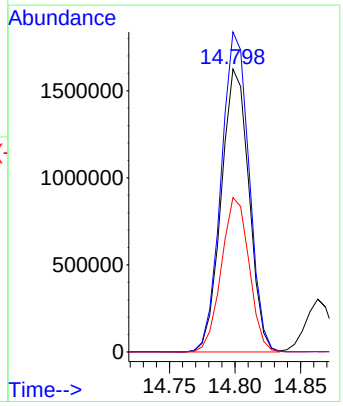


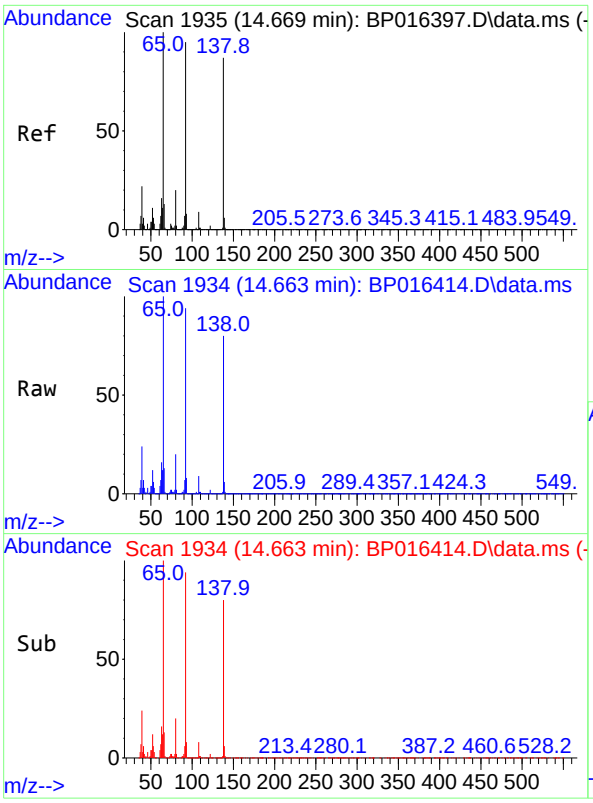


#52
Acenaphthene
Concen: 47.966 ng
RT: 14.798 min Scan# 1957
Delta R.T. -0.006 min
Lab File: BP016414.D
Acq: 28 Jul 2023 09:48

Tgt Ion:154 Resp: 2389273

Ion	Ratio	Lower	Upper
154	100		
153	113.1	90.4	135.6
152	54.6	43.4	65.0

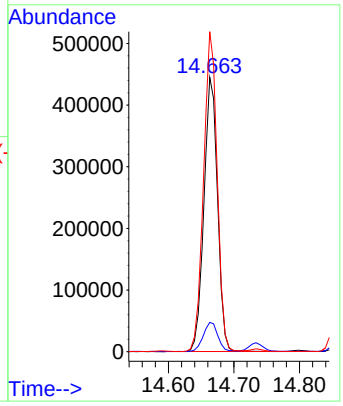




#53
3-Nitroaniline
Concen: 40.568 ng
RT: 14.663 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP016414.D
Acq: 28 Jul 2023 09:48

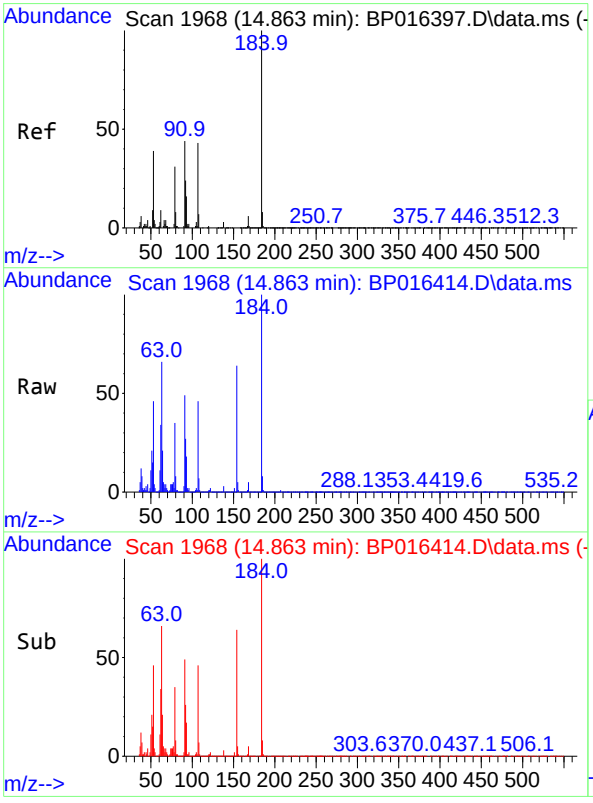
Tgt Ion:138 Resp: 64276

Ion	Ratio	Lower	Upper
138	100		
108	10.7	8.7	13.1
92	116.7	87.6	131.4



Instrument :
BNA_P
ClientSampleId :
PB154218BSD

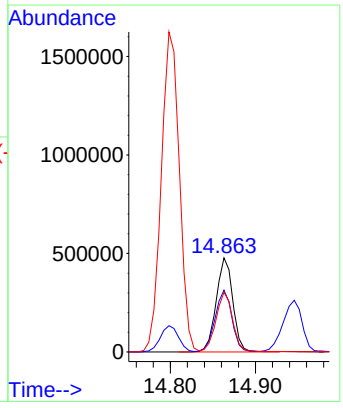
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

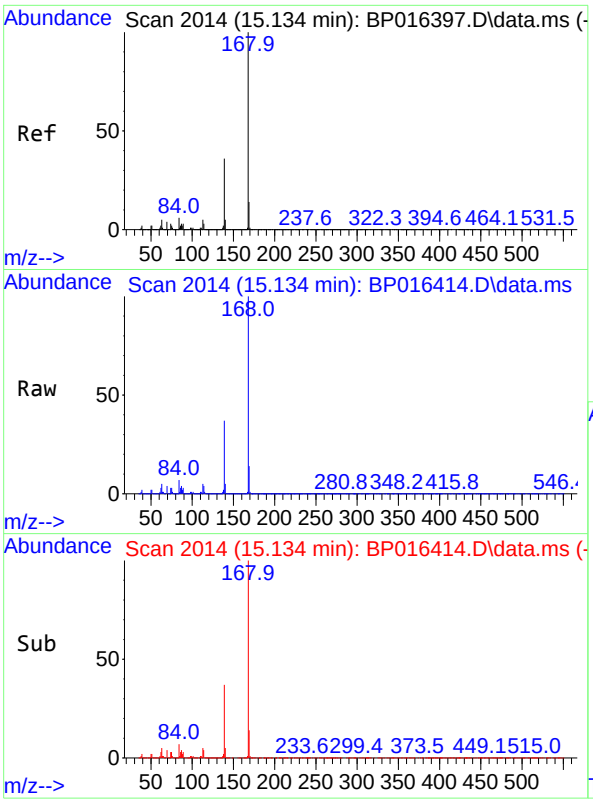


#54
2,4-Dinitrophenol
Concen: 97.073 ng
RT: 14.863 min Scan# 1968
Delta R.T. 0.000 min
Lab File: BP016414.D
Acq: 28 Jul 2023 09:48

Tgt Ion:184 Resp: 648878

Ion	Ratio	Lower	Upper
184	100		
63	65.6	48.2	72.4
154	63.5	49.6	74.4

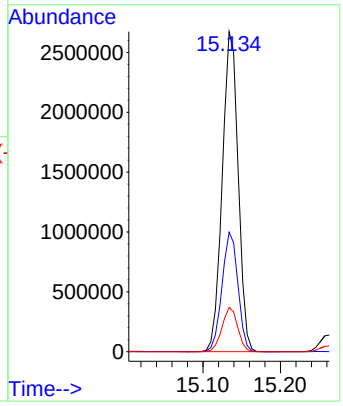




#55
Dibenzofuran
Concen: 46.631 ng
RT: 15.134 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP016414.D
Acq: 28 Jul 2023 09:48

Tgt Ion:168 Resp: 380951

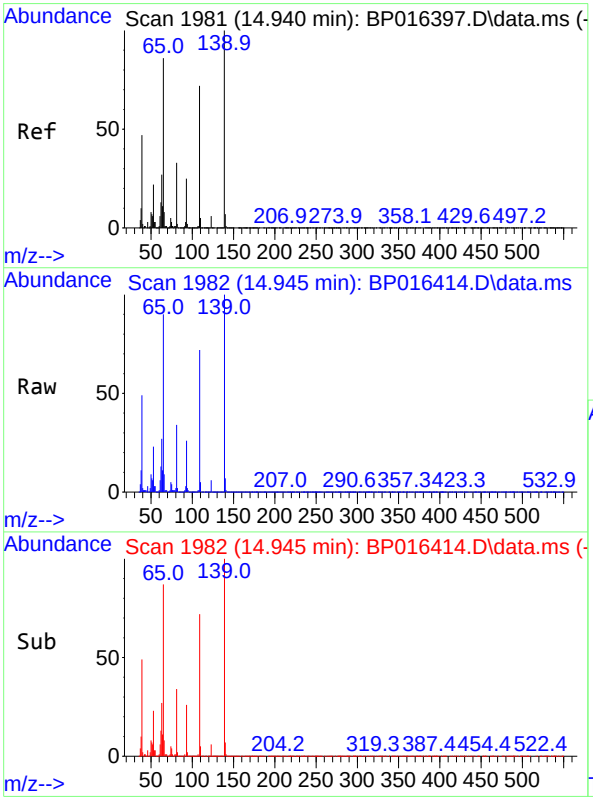
Ion	Ratio	Lower	Upper
168	100		
139	37.4	28.9	43.3
169	13.8	11.0	16.4



Instrument :
BNA_P
ClientSampleId :
PB154218BSD

Manual Integrations
APPROVED

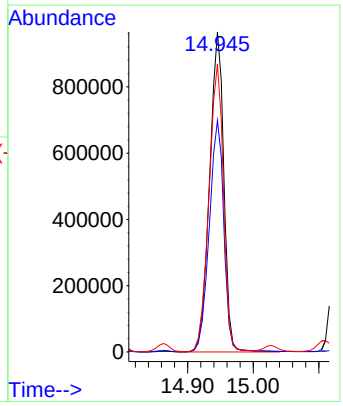
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

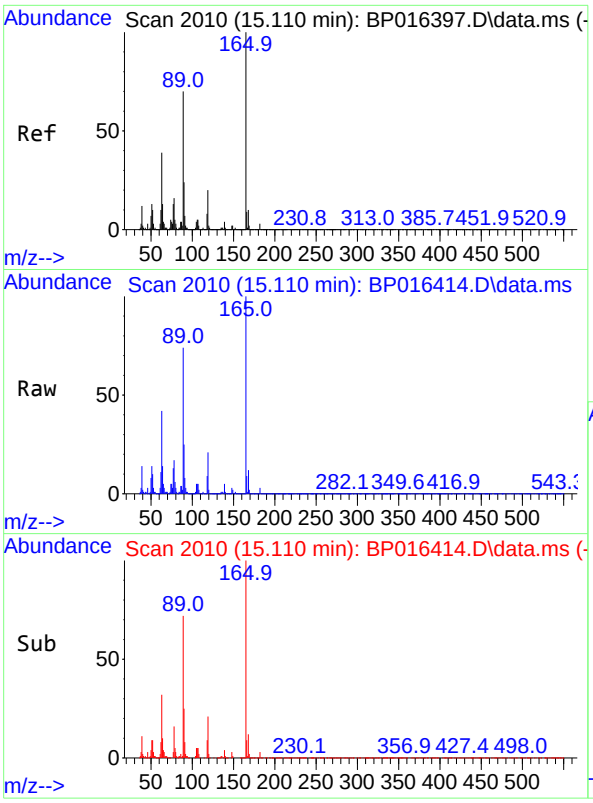


#56
4-Nitrophenol
Concen: 117.664 ng
RT: 14.945 min Scan# 1982
Delta R.T. 0.006 min
Lab File: BP016414.D
Acq: 28 Jul 2023 09:48

Tgt Ion:139 Resp: 1459360

Ion	Ratio	Lower	Upper
139	100		
109	72.3	51.9	91.9
65	89.8	66.2	106.2

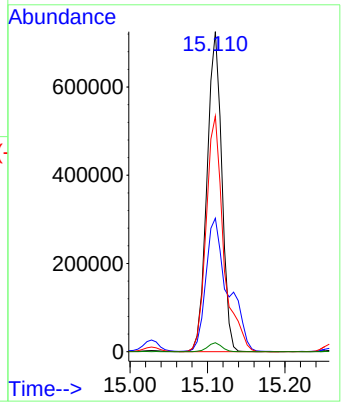




#57
2,4-Dinitrotoluene
Concen: 52.484 ng
RT: 15.110 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP016414.D
Acq: 28 Jul 2023 09:48

Tgt Ion:165 Resp: 95860

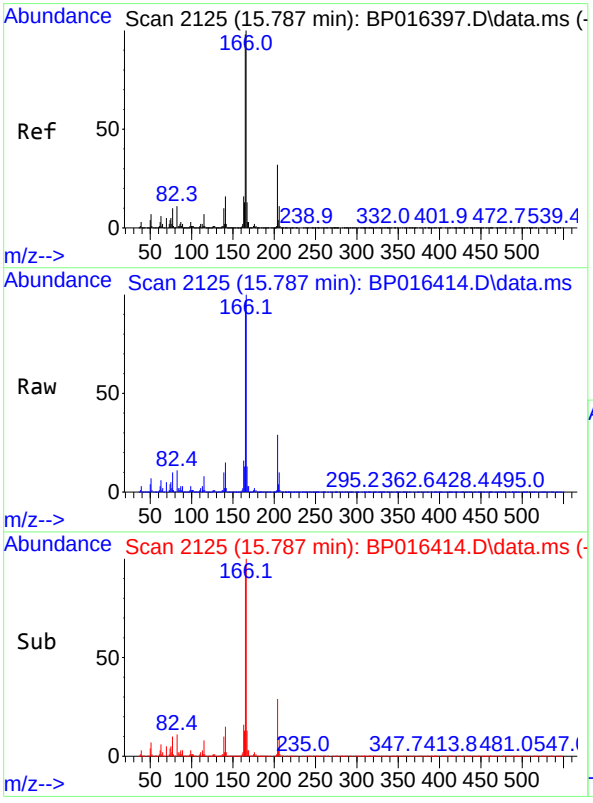
Ion	Ratio	Lower	Upper
165	100		
63	41.7	31.4	47.0
89	73.6	55.8	83.6
182	2.8	2.2	3.2



Instrument :
BNA_P
ClientSampleId :
PB154218BSD

Manual Integrations
APPROVED

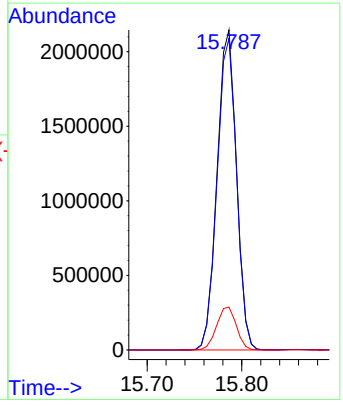
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

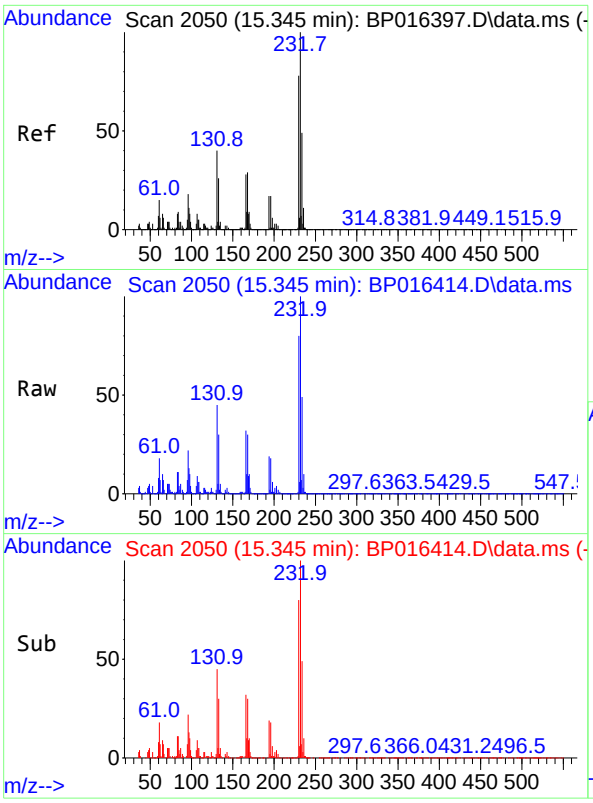


#58
Fluorene
Concen: 47.710 ng
RT: 15.787 min Scan# 2125
Delta R.T. -0.000 min
Lab File: BP016414.D
Acq: 28 Jul 2023 09:48

Tgt Ion:166 Resp: 3062096

Ion	Ratio	Lower	Upper
166	100		
165	97.4	78.0	117.0
167	13.4	10.6	16.0

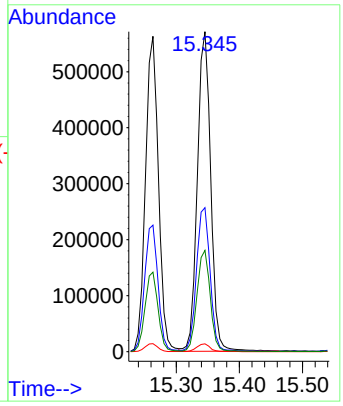




#59
2,3,4,6-Tetrachlorophenol
Concen: 48.950 ng
RT: 15.345 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP016414.D
Acq: 28 Jul 2023 09:48

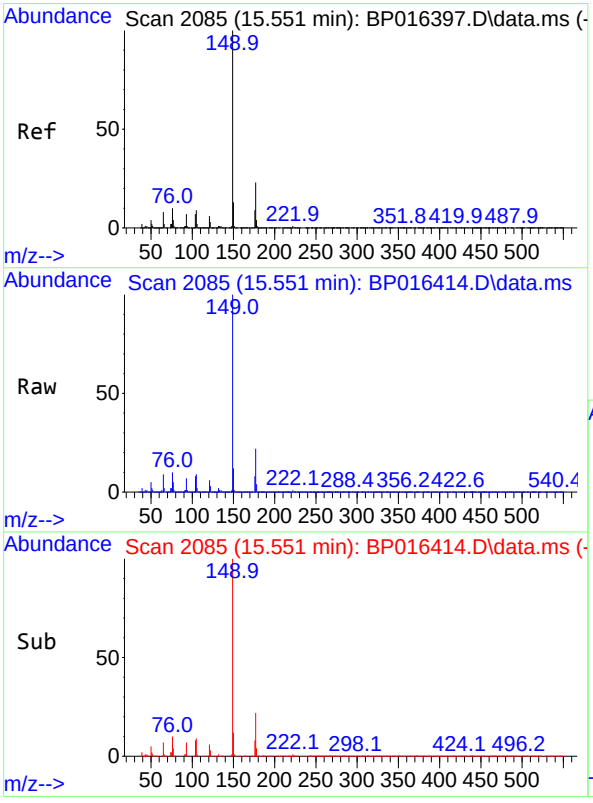
Tgt Ion:232 Resp: 83623

Ion	Ratio	Lower	Upper
232	100		
131	46.2	33.1	49.7
130	2.5	1.8	2.8
166	31.6	23.0	34.4



Instrument :
BNA_P
ClientSampleId :
PB154218BSD

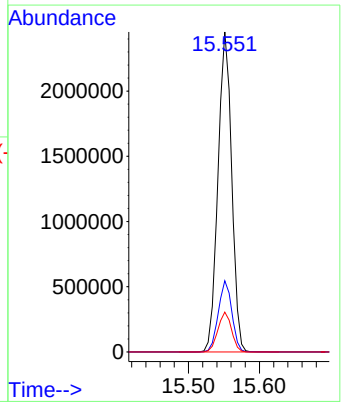
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

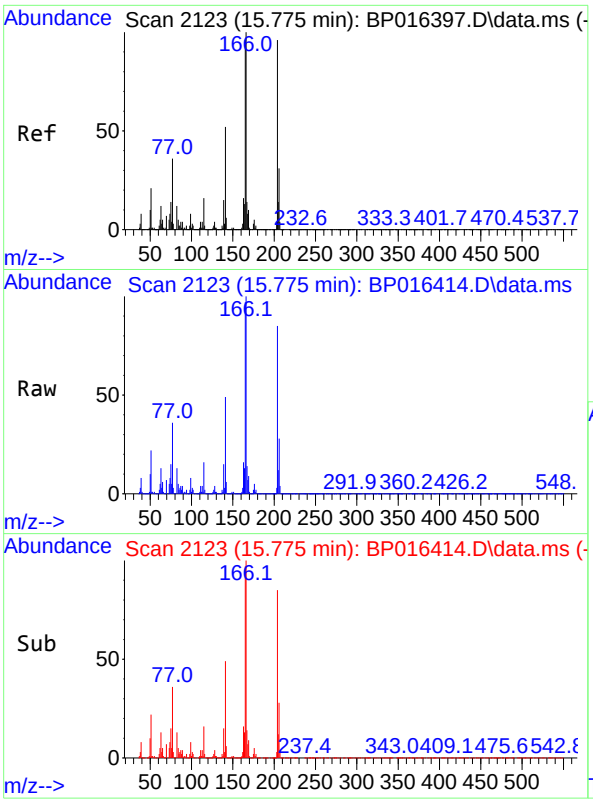


#60
Diethylphthalate
Concen: 48.082 ng
RT: 15.551 min Scan# 2085
Delta R.T. -0.000 min
Lab File: BP016414.D
Acq: 28 Jul 2023 09:48

Tgt Ion:149 Resp: 3268820

Ion	Ratio	Lower	Upper
149	100		
177	22.3	18.6	27.8
150	12.5	10.1	15.1

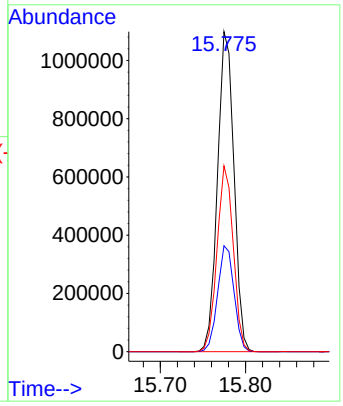




#61
4-Chlorophenyl-phenylether
Concen: 45.590 ng
RT: 15.775 min Scan# 21
Delta R.T. -0.000 min
Lab File: BP016414.D
Acq: 28 Jul 2023 09:48

Tgt Ion:204 Resp: 147656

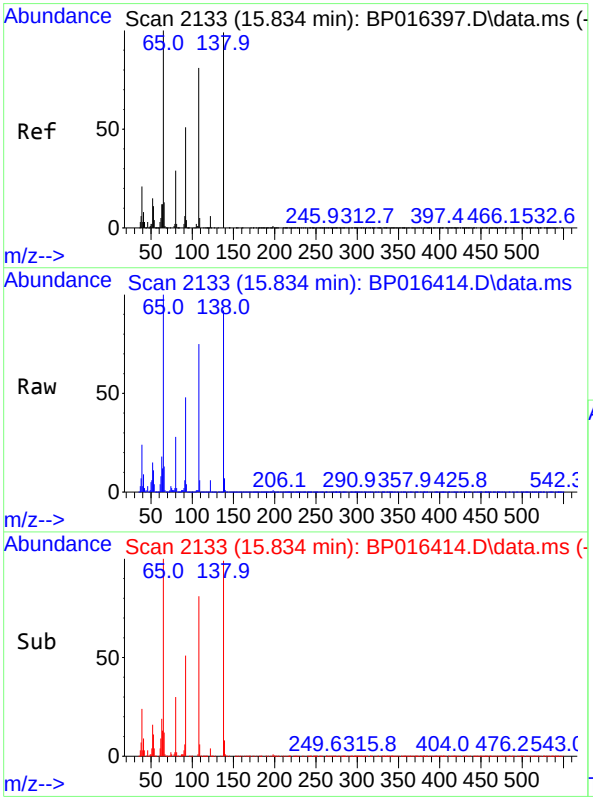
Ion	Ratio	Lower	Upper
204	100		
206	33.1	26.2	39.4
141	58.1	43.4	65.0



Instrument :
BNA_P
ClientSampleId :
PB154218BSD

Manual Integrations
APPROVED

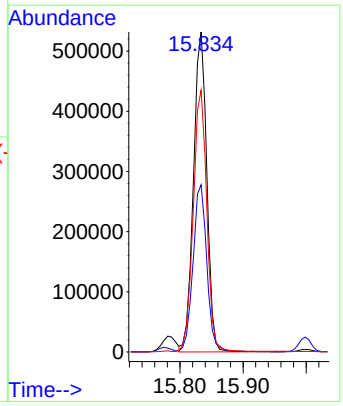
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

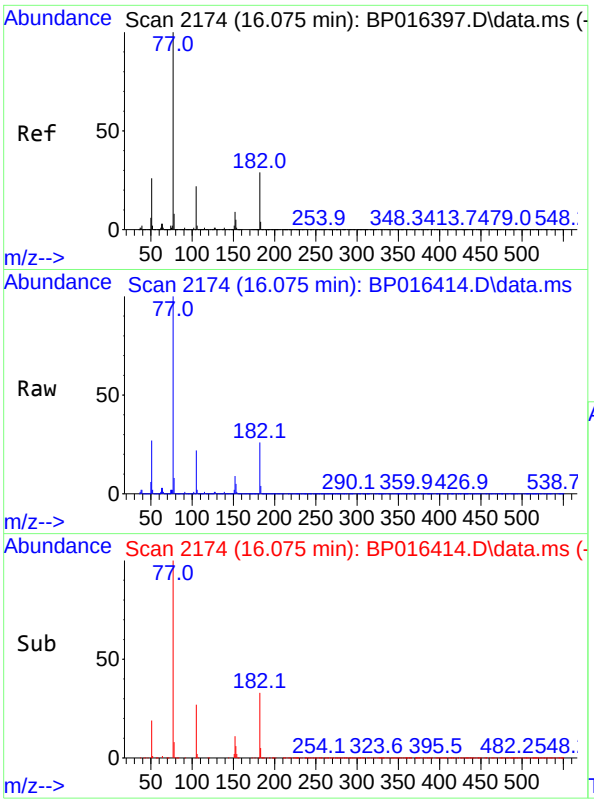


#62
4-Nitroaniline
Concen: 49.441 ng
RT: 15.834 min Scan# 2133
Delta R.T. -0.000 min
Lab File: BP016414.D
Acq: 28 Jul 2023 09:48

Tgt Ion:138 Resp: 777416

Ion	Ratio	Lower	Upper
138	100		
92	52.2	30.3	70.3
108	81.9	60.1	100.1

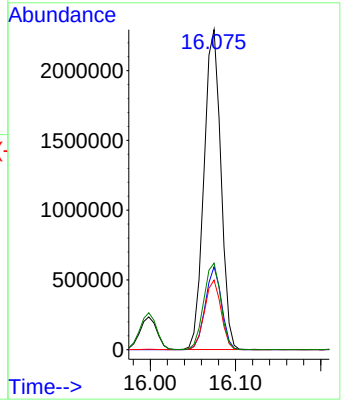




#63
Azobenzene
Concen: 49.143 ng
RT: 16.075 min Scan# 21
Delta R.T. -0.000 min
Lab File: BP016414.D
Acq: 28 Jul 2023 09:48

Tgt Ion: 77 Resp: 315461

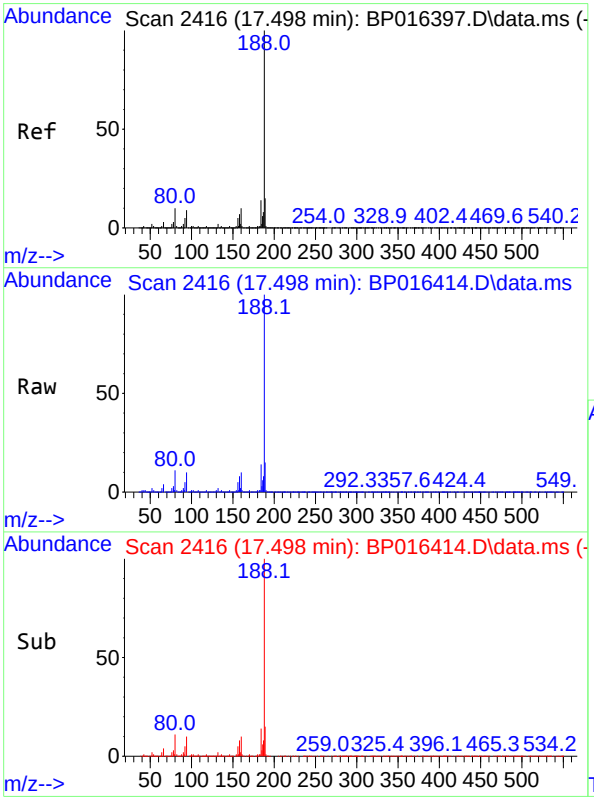
Ion	Ratio	Lower	Upper
77	100		
182	25.9	8.6	48.6
105	21.7	2.4	42.4
51	27.0	6.2	46.2



Instrument :
BNA_P
ClientSampleId :
PB154218BSD

Manual Integrations
APPROVED

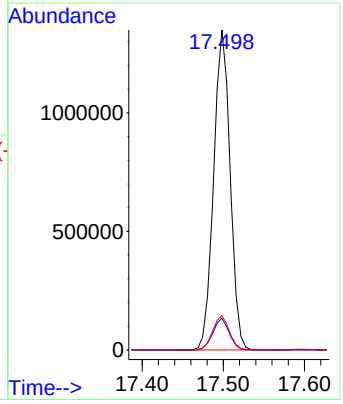
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

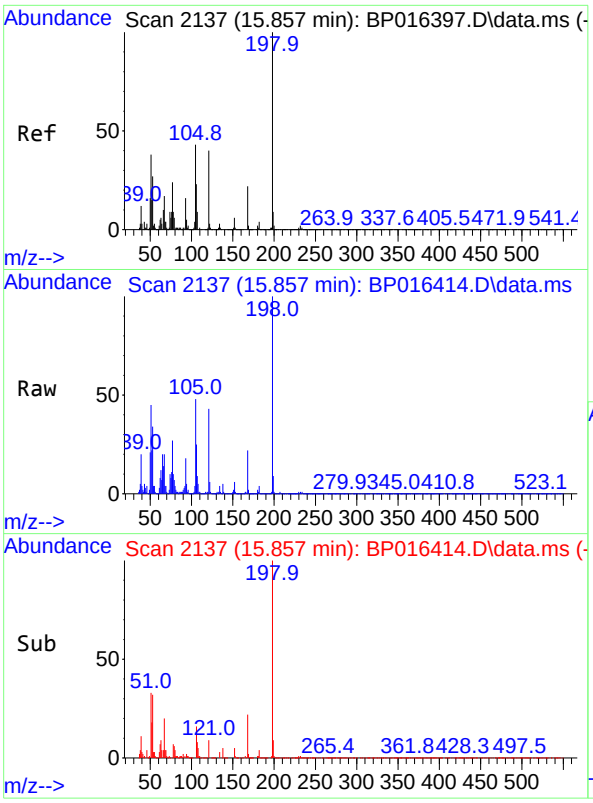


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.498 min Scan# 2416
Delta R.T. -0.000 min
Lab File: BP016414.D
Acq: 28 Jul 2023 09:48

Tgt Ion:188 Resp: 1902273

Ion	Ratio	Lower	Upper
188	100		
94	10.0	7.4	11.0
80	10.7	7.8	11.8

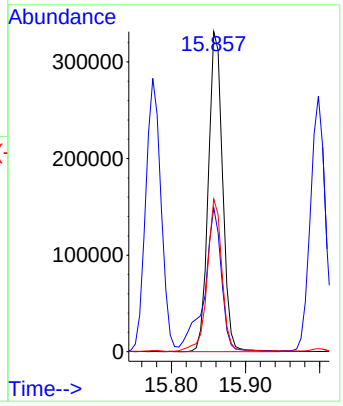




#65
4,6-Dinitro-2-methylphenol
Concen: 49.423 ng
RT: 15.857 min Scan# 21
Delta R.T. 0.000 min
Lab File: BP016414.D
Acq: 28 Jul 2023 09:48

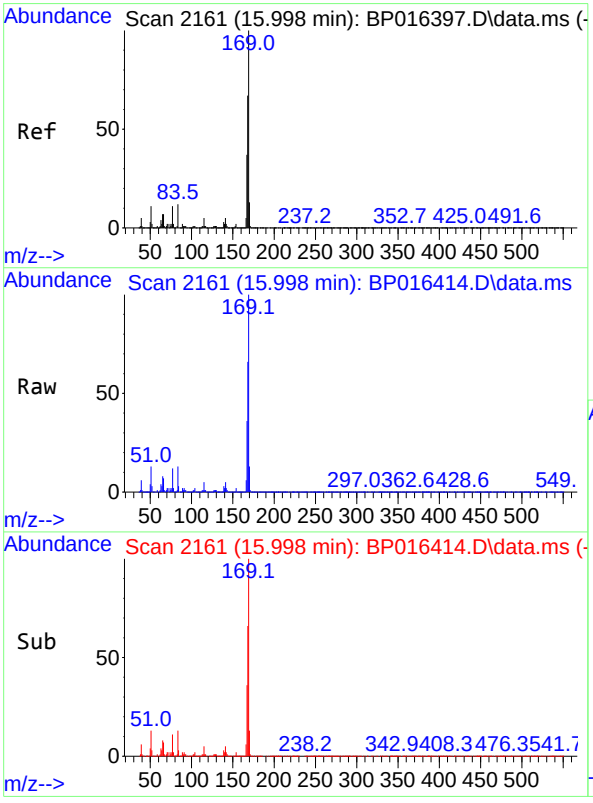
Tgt Ion:198 Resp: 44213

Ion	Ratio	Lower	Upper
198	100		
51	45.0	20.1	60.1
105	47.7	23.1	63.1



Instrument :
BNA_P
ClientSampleId :
PB154218BSD

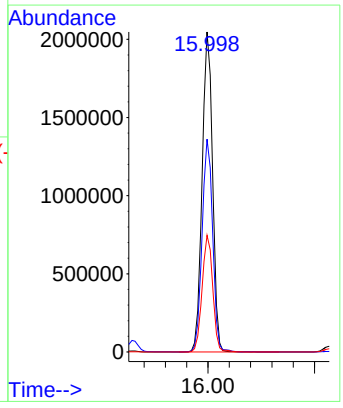
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

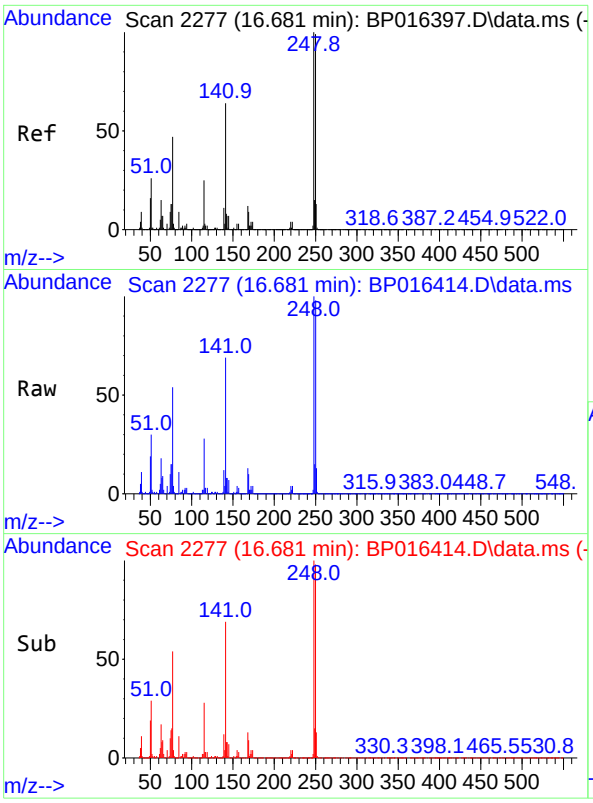


#66
n-Nitrosodiphenylamine
Concen: 49.397 ng
RT: 15.998 min Scan# 2161
Delta R.T. -0.000 min
Lab File: BP016414.D
Acq: 28 Jul 2023 09:48

Tgt Ion:169 Resp: 2769269

Ion	Ratio	Lower	Upper
169	100		
168	66.5	53.6	80.4
167	36.5	29.2	43.8

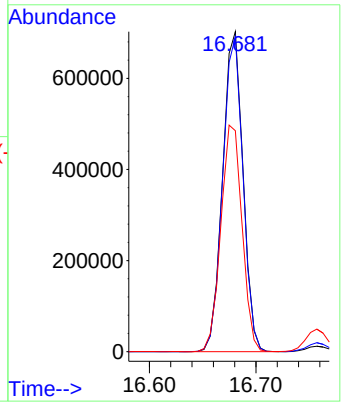




#67
4-Bromophenyl-phenylether
Concen: 46.307 ng
RT: 16.681 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP016414.D
Acq: 28 Jul 2023 09:48

Tgt Ion:248 Resp: 93273

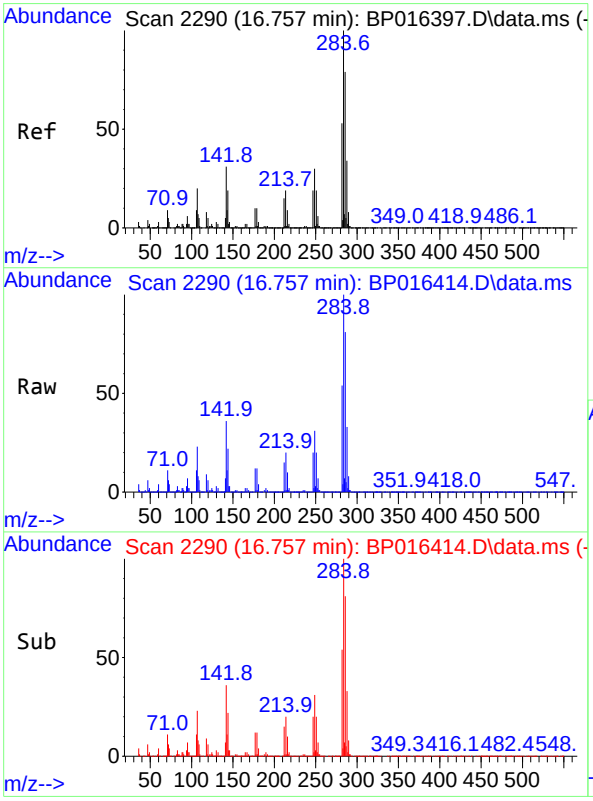
Ion	Ratio	Lower	Upper
248	100		
250	98.4	78.9	118.3
141	69.0	51.0	76.4



Instrument :
BNA_P
ClientSampleId :
PB154218BSD

Manual Integrations
APPROVED

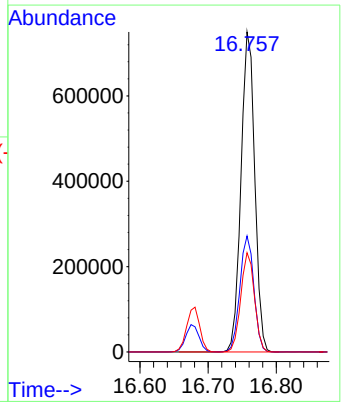
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

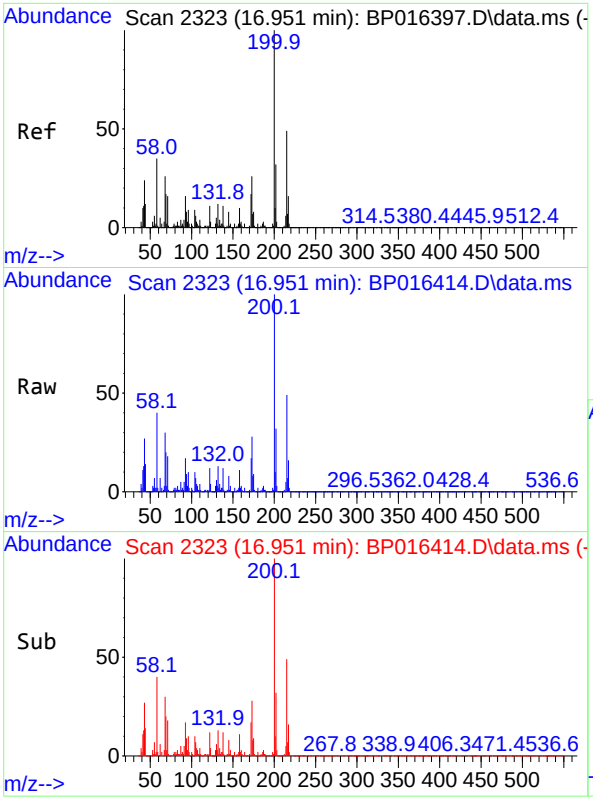


#68
Hexachlorobenzene
Concen: 46.768 ng
RT: 16.757 min Scan# 2290
Delta R.T. -0.000 min
Lab File: BP016414.D
Acq: 28 Jul 2023 09:48

Tgt Ion:284 Resp: 1050524

Ion	Ratio	Lower	Upper
284	100		
142	36.2	25.2	37.8
249	31.0	26.0	39.0

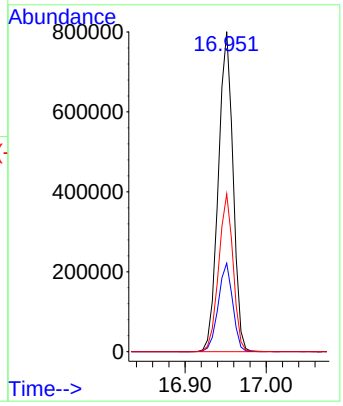




#69
Atrazine
Concen: 60.534 ng
RT: 16.951 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP016414.D
Acq: 28 Jul 2023 09:48

Tgt Ion:200 Resp: 100926

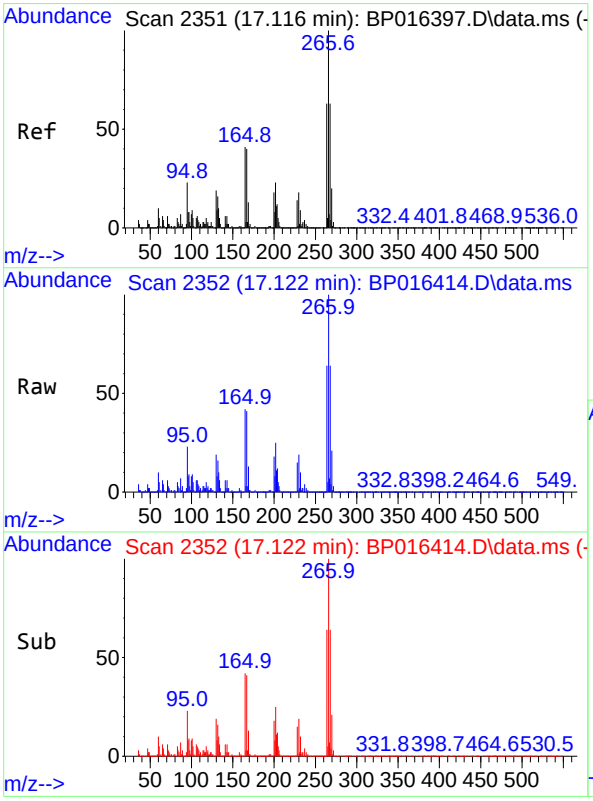
Ion	Ratio	Lower	Upper
200	100		
173	27.7	5.8	45.8
215	49.3	29.2	69.2



Instrument :
BNA_P
ClientSampleId :
PB154218BSD

Manual Integrations
APPROVED

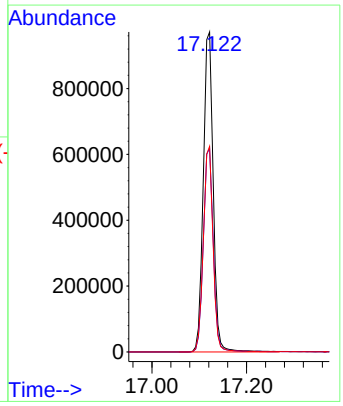
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

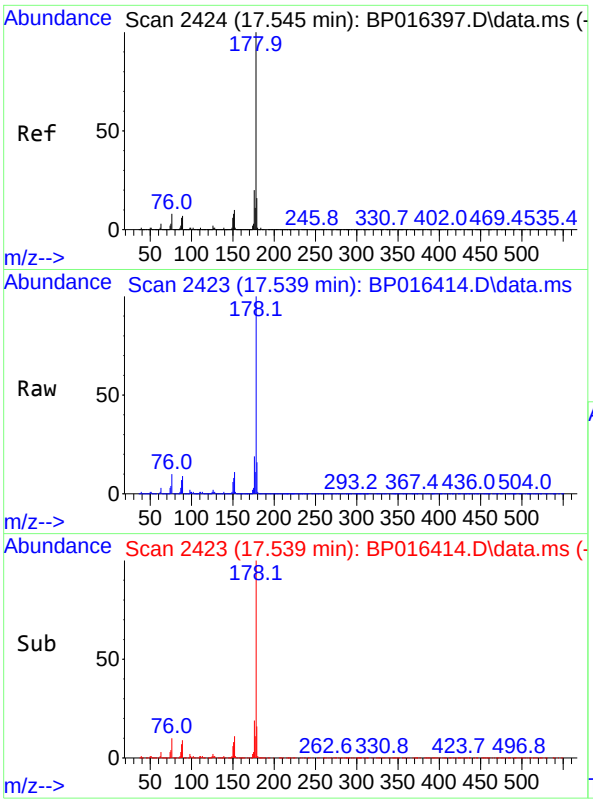


#70
Pentachlorophenol
Concen: 90.437 ng
RT: 17.122 min Scan# 2352
Delta R.T. 0.006 min
Lab File: BP016414.D
Acq: 28 Jul 2023 09:48

Tgt Ion:266 Resp: 1405814

Ion	Ratio	Lower	Upper
266	100		
268	63.6	53.9	80.9
264	64.2	54.9	82.3

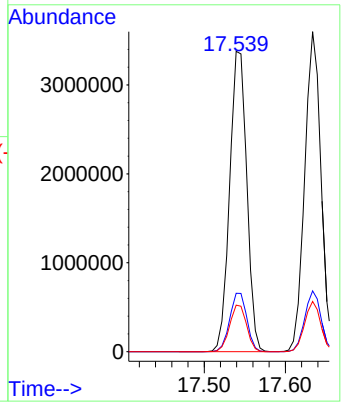




#71
Phenanthrene
Concen: 49.063 ng
RT: 17.539 min Scan# 24
Delta R.T. -0.006 min
Lab File: BP016414.D
Acq: 28 Jul 2023 09:48

Tgt Ion:178 Resp: 495587

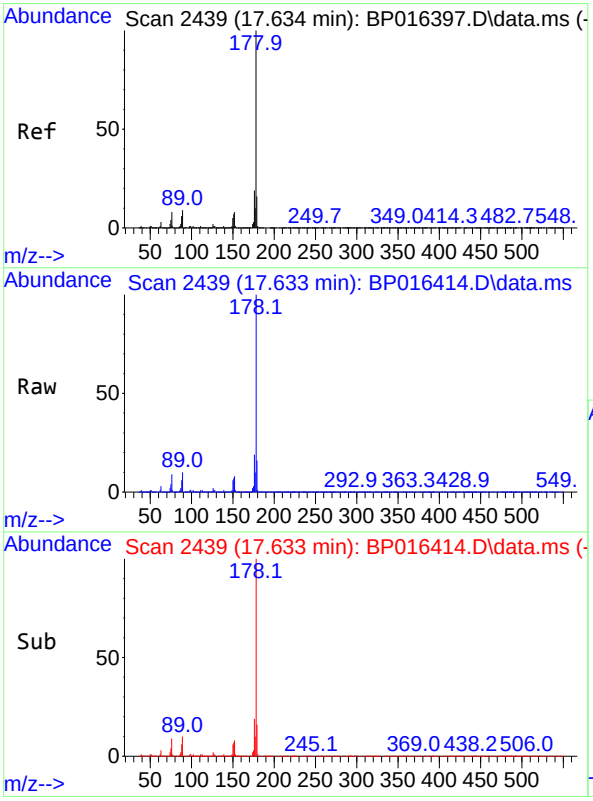
Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.8	23.8
179	15.5	12.4	18.6



Instrument :
BNA_P
ClientSampleId :
PB154218BSD

Manual Integrations
APPROVED

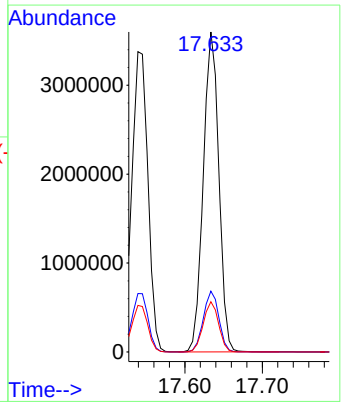
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

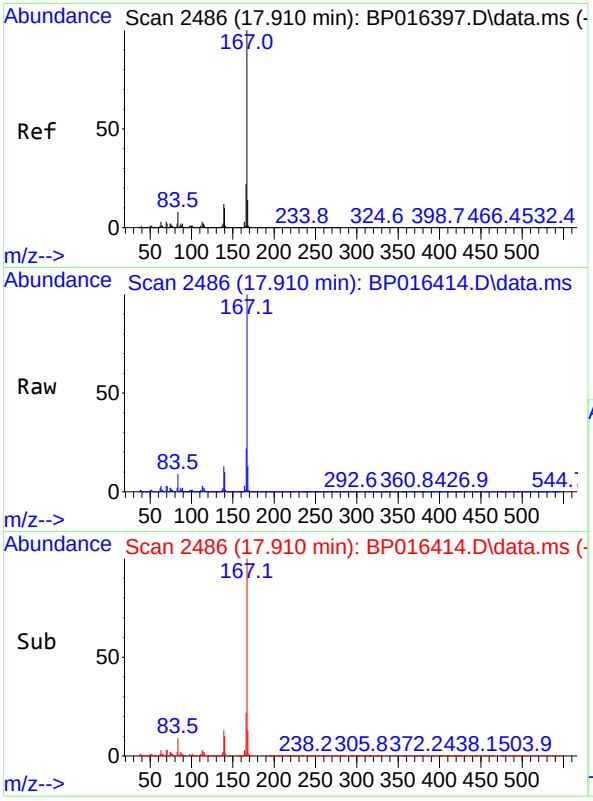


#72
Anthracene
Concen: 49.376 ng
RT: 17.633 min Scan# 2439
Delta R.T. -0.000 min
Lab File: BP016414.D
Acq: 28 Jul 2023 09:48

Tgt Ion:178 Resp: 5015058

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.2	22.8
179	15.7	12.6	19.0

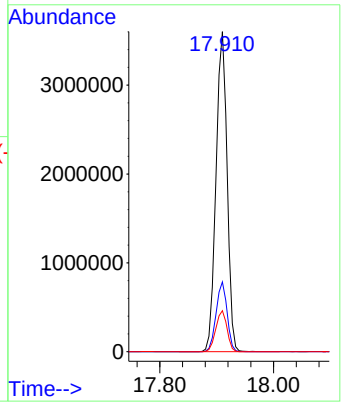




#73
Carbazole
Concen: 51.087 ng
RT: 17.910 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP016414.D
Acq: 28 Jul 2023 09:48

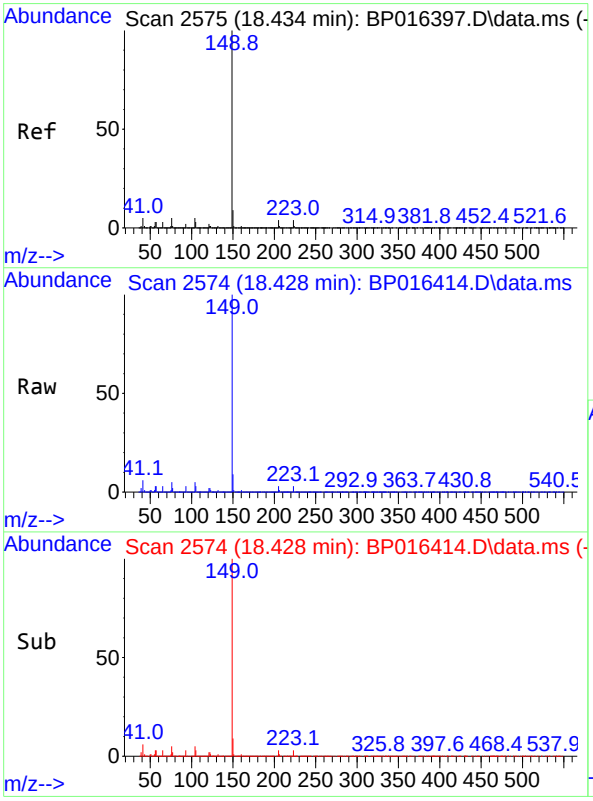
Tgt Ion:167 Resp: 486482

Ion	Ratio	Lower	Upper
167	100		
166	21.8	17.2	25.8
139	12.8	9.9	14.9



Instrument :
BNA_P
ClientSampleId :
PB154218BSD

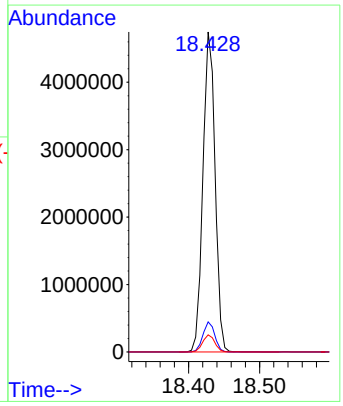
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

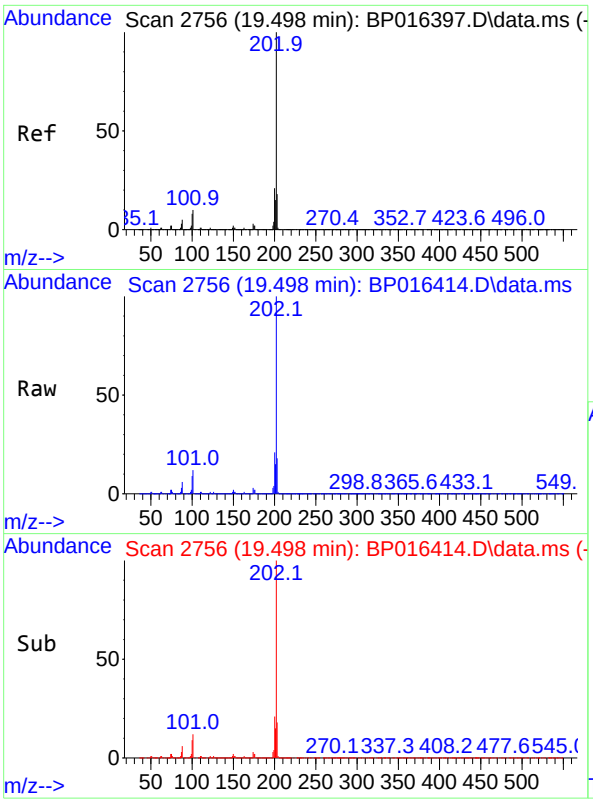


#74
Di-n-butylphthalate
Concen: 51.280 ng
RT: 18.428 min Scan# 2574
Delta R.T. -0.006 min
Lab File: BP016414.D
Acq: 28 Jul 2023 09:48

Tgt Ion:149 Resp: 5649496

Ion	Ratio	Lower	Upper
149	100		
150	9.4	7.4	11.2
104	5.3	3.8	5.8





#75
Fluoranthene
Concen: 48.387 ng
RT: 19.498 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP016414.D
Acq: 28 Jul 2023 09:48

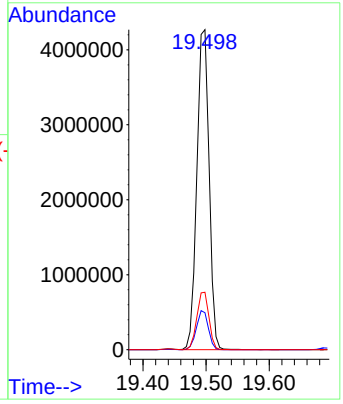
Tgt Ion:202 Resp: 572870

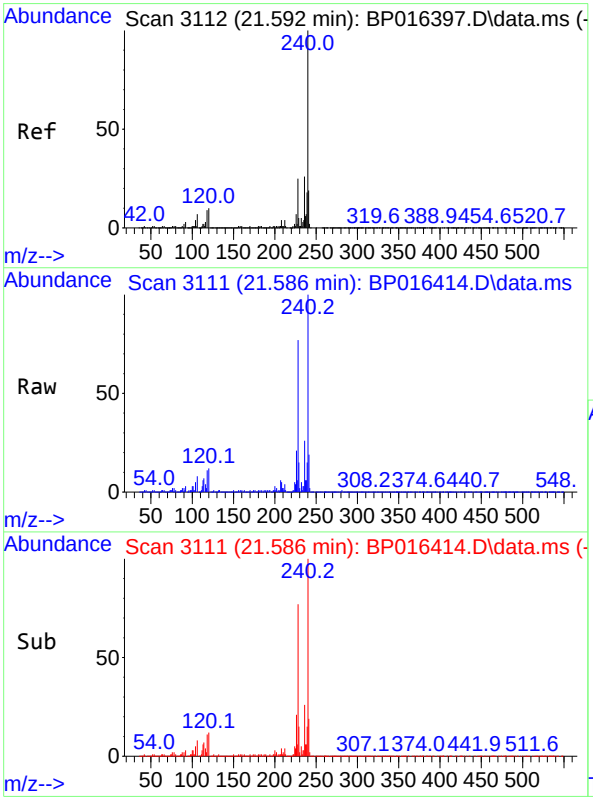
Ion	Ratio	Lower	Upper
202	100		
101	11.6	0.0	30.2
203	17.9	0.0	37.9

Instrument :
BNA_P
ClientSampleId :
PB154218BSD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

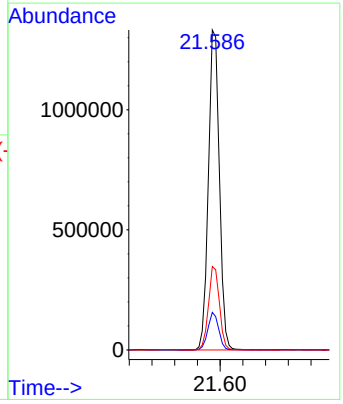


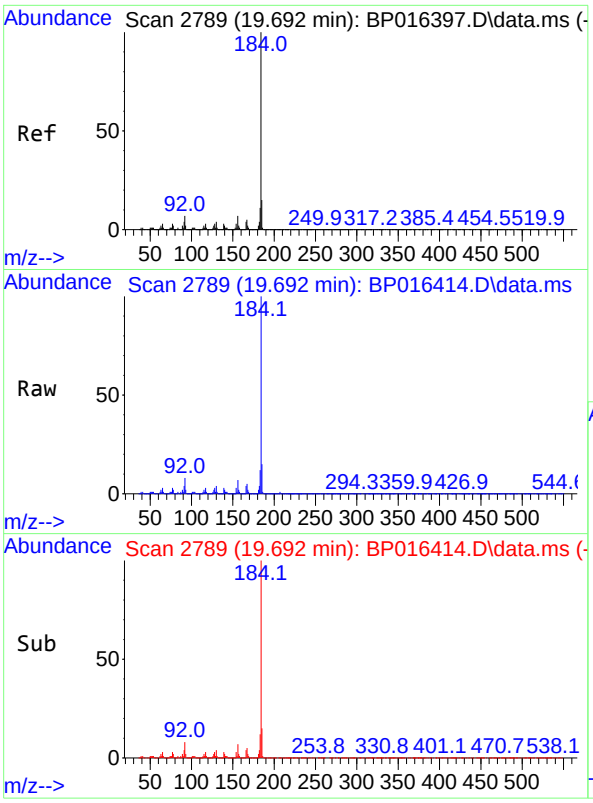


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.586 min Scan# 3111
Delta R.T. -0.006 min
Lab File: BP016414.D
Acq: 28 Jul 2023 09:48

Tgt Ion:240 Resp: 1781258

Ion	Ratio	Lower	Upper
240	100		
120	11.8	7.9	11.9
236	26.1	21.1	31.7

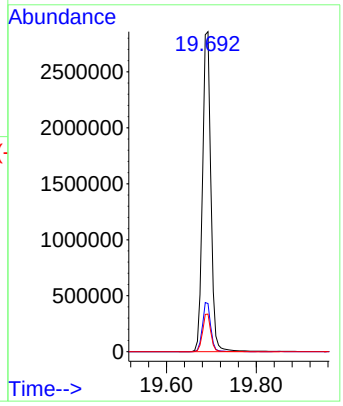




#77
Benzidine
Concen: 119.783 ng
RT: 19.692 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP016414.D
Acq: 28 Jul 2023 09:48

Tgt Ion:184 Resp: 369925

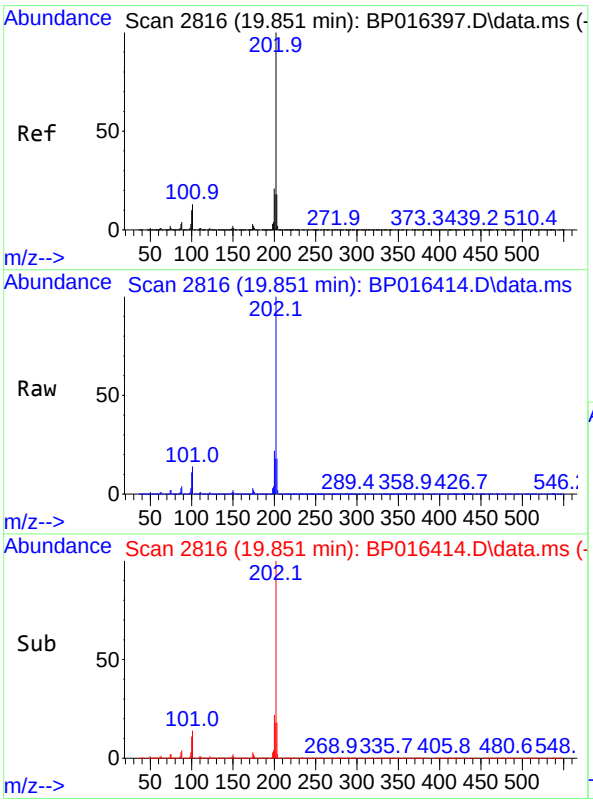
Ion	Ratio	Lower	Upper
184	100		
185	15.1	12.0	18.0
183	11.8	9.2	13.8



Instrument :
BNA_P
ClientSampleId :
PB154218BSD

Manual Integrations
APPROVED

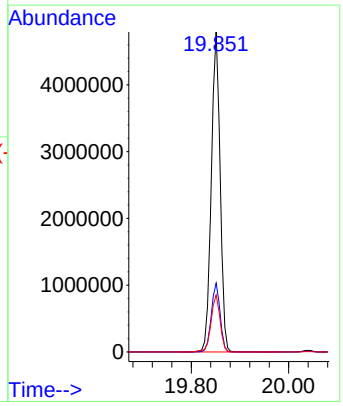
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

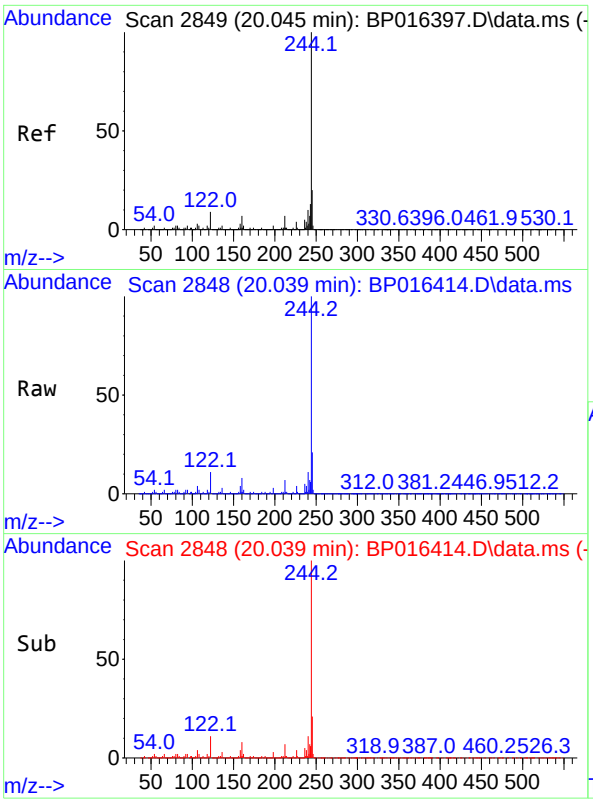


#78
Pyrene
Concen: 50.268 ng
RT: 19.851 min Scan# 2816
Delta R.T. -0.000 min
Lab File: BP016414.D
Acq: 28 Jul 2023 09:48

Tgt Ion:202 Resp: 6002410

Ion	Ratio	Lower	Upper
202	100		
200	21.5	17.1	25.7
203	17.8	14.4	21.6

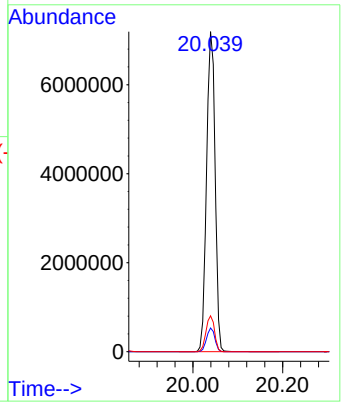




#79
Terphenyl-d14
Concen: 112.400 ng
RT: 20.039 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP016414.D
Acq: 28 Jul 2023 09:48

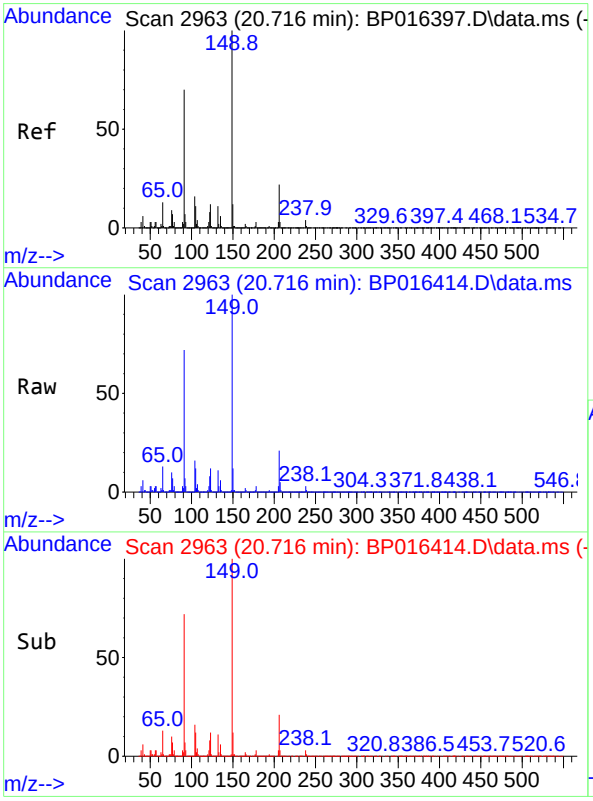
Tgt Ion:244 Resp: 947788

Ion	Ratio	Lower	Upper
244	100		
212	7.4	5.6	8.4
122	11.2	7.4	11.2



Instrument :
BNA_P
ClientSampleId :
PB154218BSD

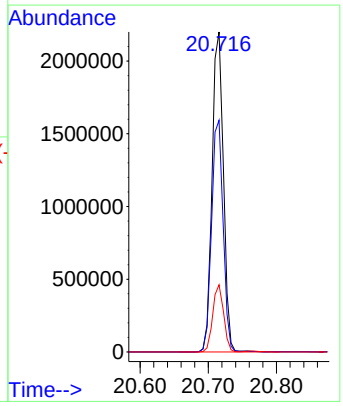
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

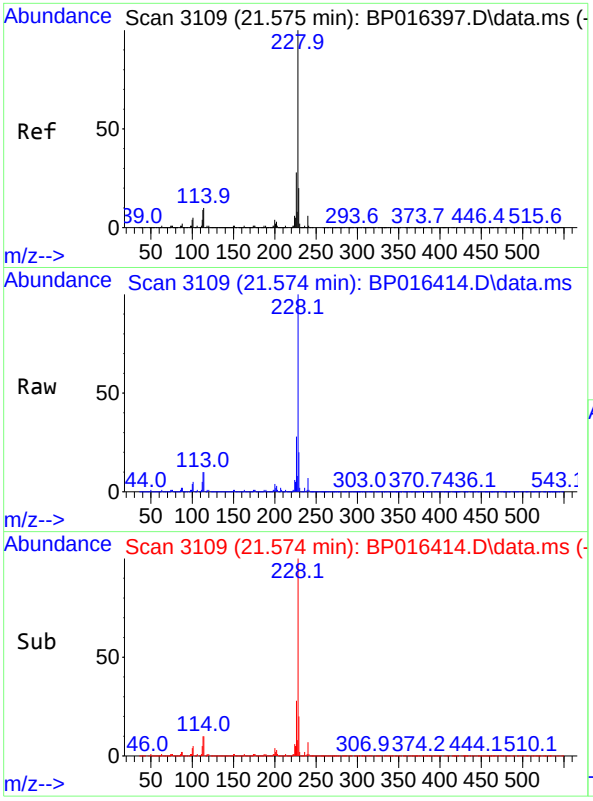


#80
Butylbenzylphthalate
Concen: 54.148 ng
RT: 20.716 min Scan# 2963
Delta R.T. -0.000 min
Lab File: BP016414.D
Acq: 28 Jul 2023 09:48

Tgt Ion:149 Resp: 2540089

Ion	Ratio	Lower	Upper
149	100		
91	72.4	56.1	84.1
206	21.0	17.8	26.6

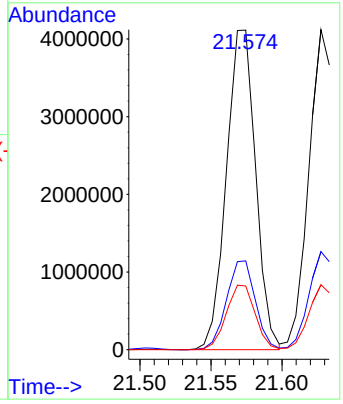




#81
Benzo(a)anthracene
Concen: 49.263 ng
RT: 21.574 min Scan# 3
Delta R.T. -0.000 min
Lab File: BP016414.D
Acq: 28 Jul 2023 09:48

Tgt Ion:228 Resp: 588765

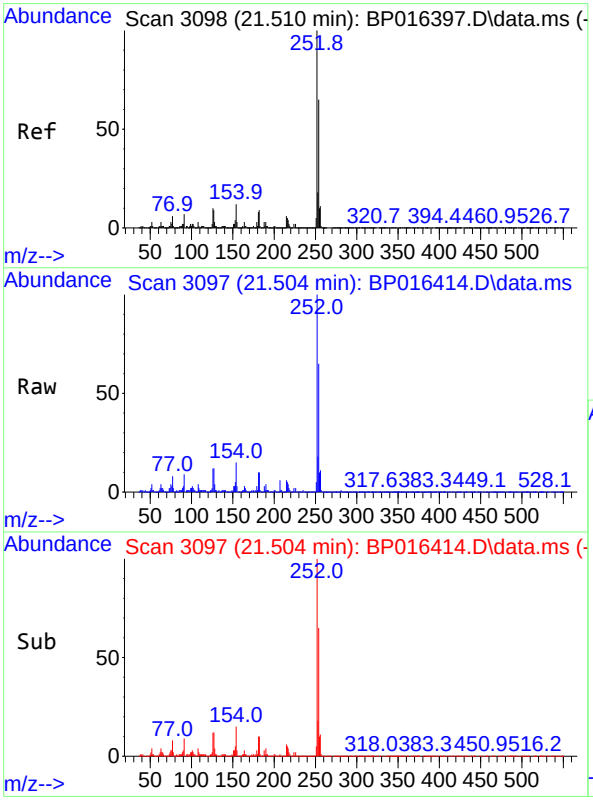
Ion	Ratio	Lower	Upper
228	100		
226	27.8	22.4	33.6
229	20.0	16.2	24.4



Instrument :
BNA_P
ClientSampleId :
PB154218BSD

Manual Integrations
APPROVED

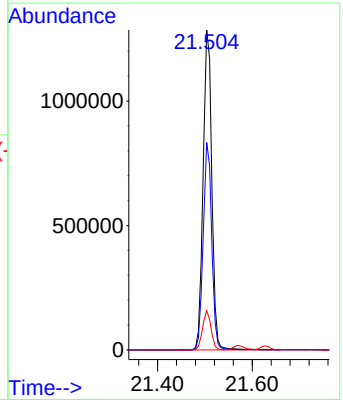
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

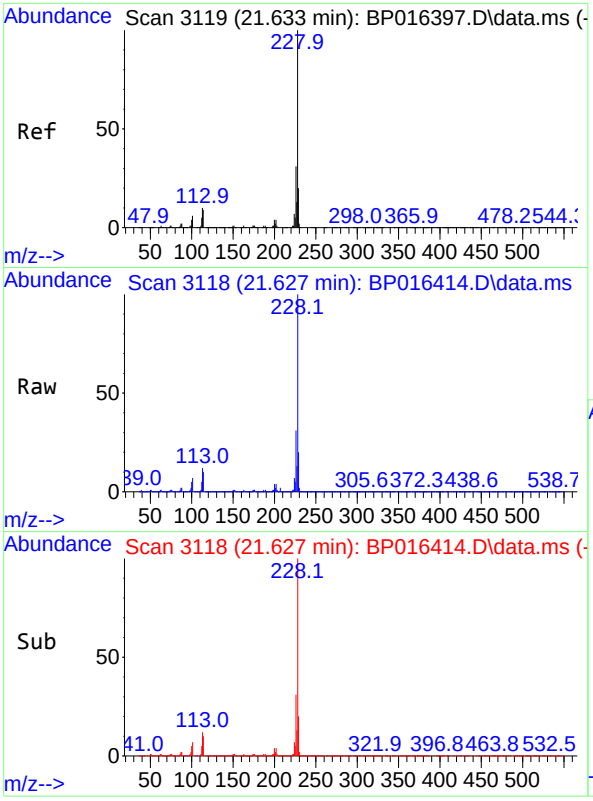


#82
3,3'-Dichlorobenzidine
Concen: 41.581 ng
RT: 21.504 min Scan# 3097
Delta R.T. -0.006 min
Lab File: BP016414.D
Acq: 28 Jul 2023 09:48

Tgt Ion:252 Resp: 1631317

Ion	Ratio	Lower	Upper
252	100		
254	64.8	52.2	78.2
126	12.3	7.8	11.6#

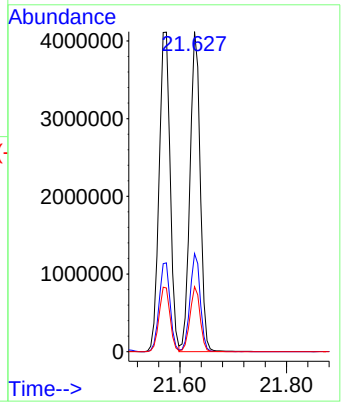




#83
Chrysene
Concen: 48.230 ng
RT: 21.627 min Scan# 3
Delta R.T. -0.006 min
Lab File: BP016414.D
Acq: 28 Jul 2023 09:48

Tgt Ion:228 Resp: 550423

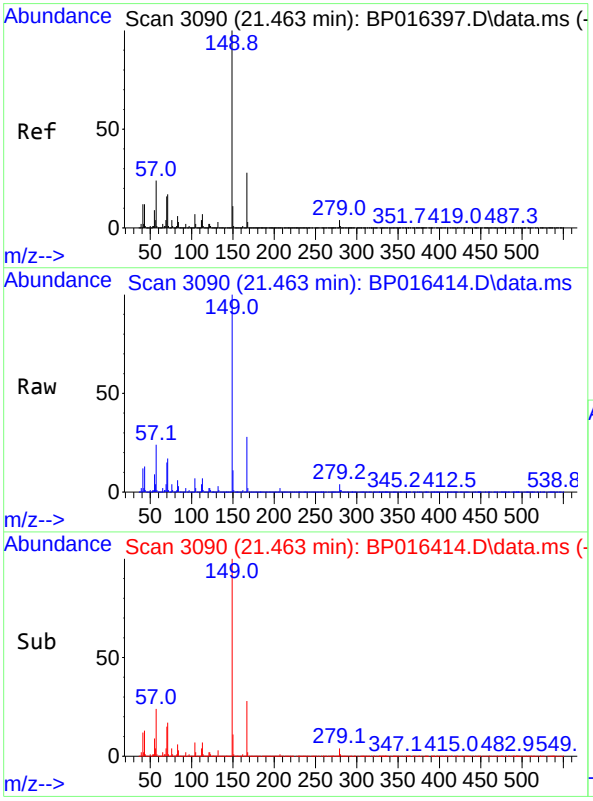
Ion	Ratio	Lower	Upper
228	100		
226	30.7	24.6	37.0
229	20.3	16.0	24.0



Instrument :
BNA_P
ClientSampleId :
PB154218BSD

Manual Integrations
APPROVED

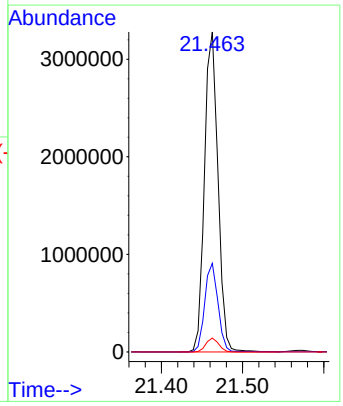
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

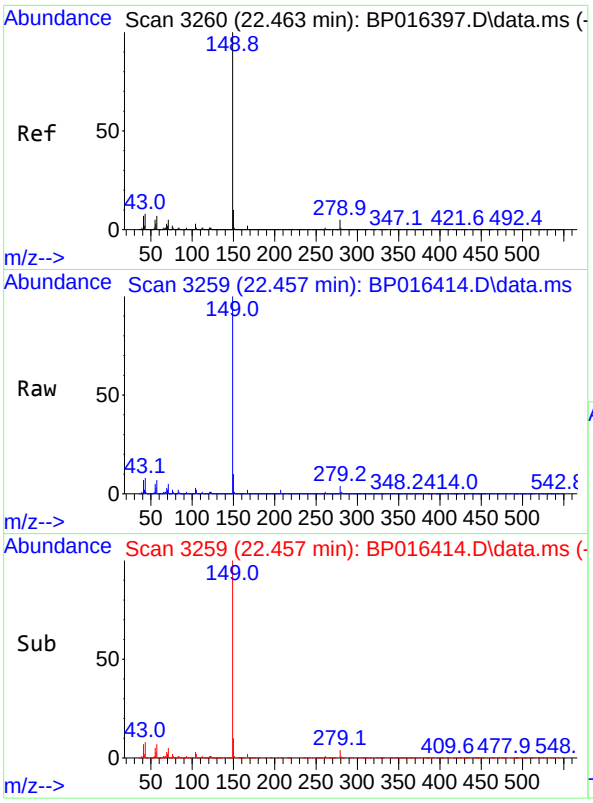


#84
Bis(2-ethylhexyl)phthalate
Concen: 53.576 ng
RT: 21.463 min Scan# 3090
Delta R.T. -0.000 min
Lab File: BP016414.D
Acq: 28 Jul 2023 09:48

Tgt Ion:149 Resp: 3773272

Ion	Ratio	Lower	Upper
149	100		
167	27.7	22.5	33.7
279	4.4	3.6	5.4





#85
Di-n-octyl phthalate
Concen: 54.763 ng
RT: 22.457 min Scan# 3
Delta R.T. -0.006 min
Lab File: BP016414.D
Acq: 28 Jul 2023 09:48

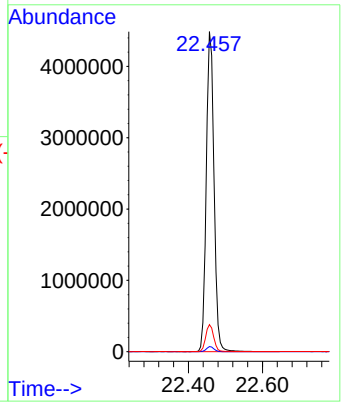
Tgt Ion:149 Resp: 648663

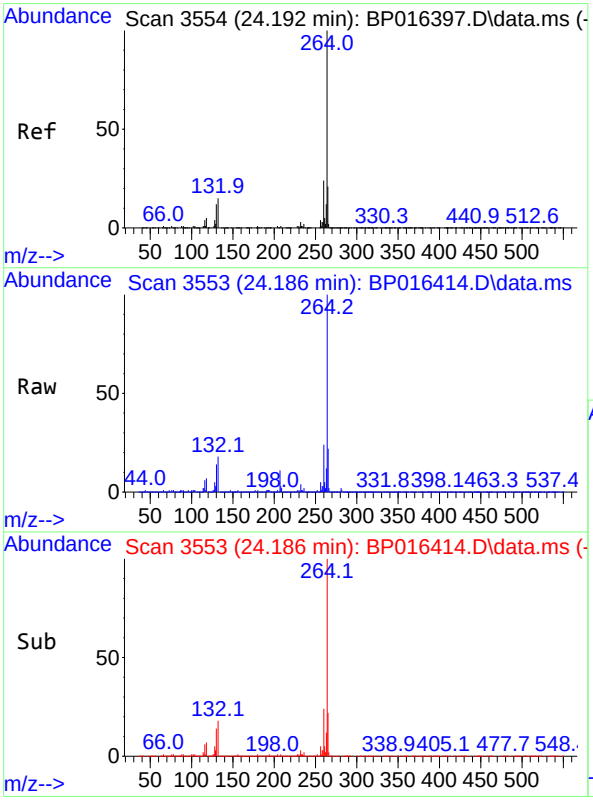
Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	8.8	6.6	9.8

Instrument :
BNA_P
ClientSampleId :
PB154218BSD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

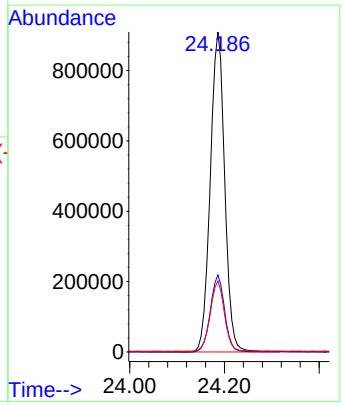


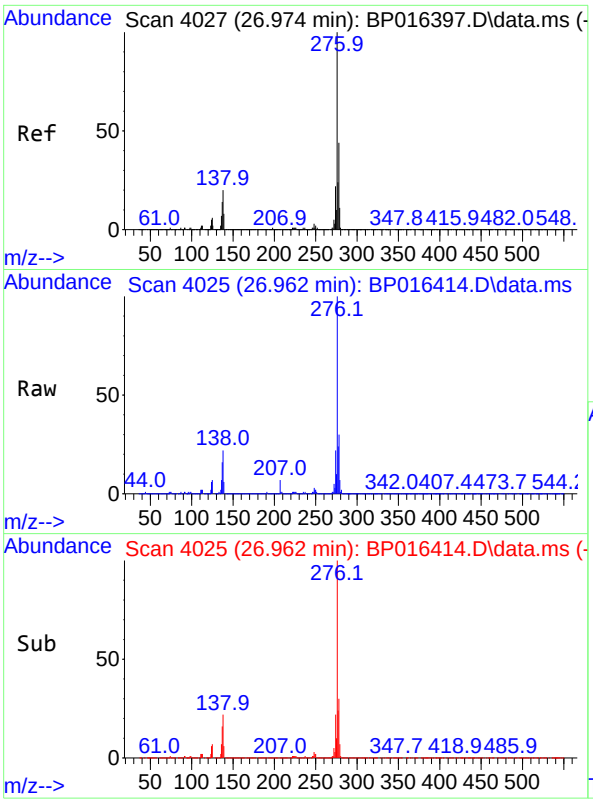


#86
Perylene-d12
Concen: 20.000 ng
RT: 24.186 min Scan# 3553
Delta R.T. -0.006 min
Lab File: BP016414.D
Acq: 28 Jul 2023 09:48

Tgt Ion:264 Resp: 1923431

Ion	Ratio	Lower	Upper
264	100		
260	24.1	19.3	28.9
265	22.2	17.4	26.0

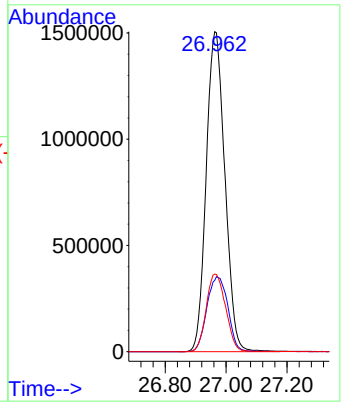




#87
Indeno(1,2,3-cd)pyrene
Concen: 49.450 ng
RT: 26.962 min Scan# 4
Delta R.T. -0.012 min
Lab File: BP016414.D
Acq: 28 Jul 2023 09:48

Tgt Ion:276 Resp: 641240

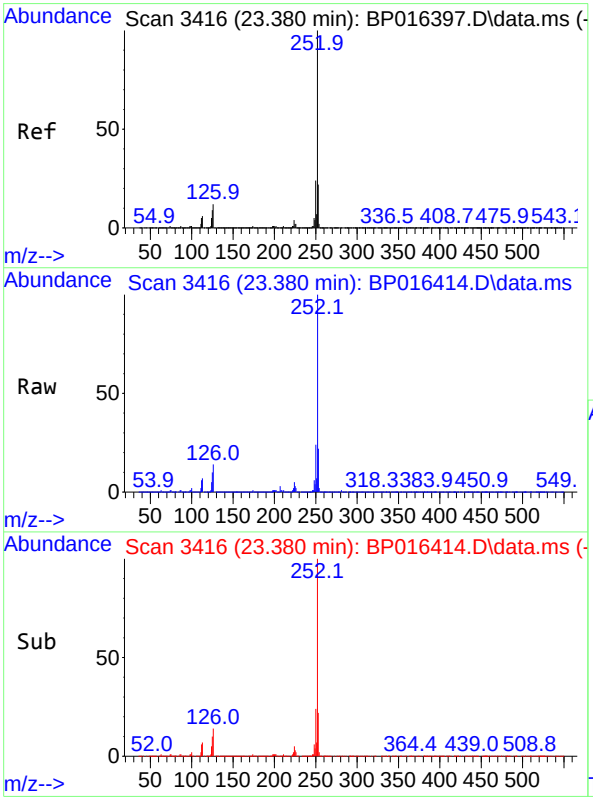
Ion	Ratio	Lower	Upper
276	100		
138	26.4	18.4	27.6
277	25.3	20.4	30.6



Instrument :
BNA_P
ClientSampleId :
PB154218BSD

Manual Integrations
APPROVED

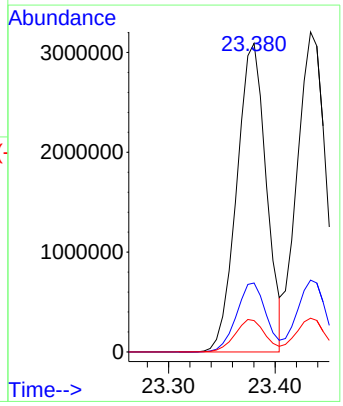
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

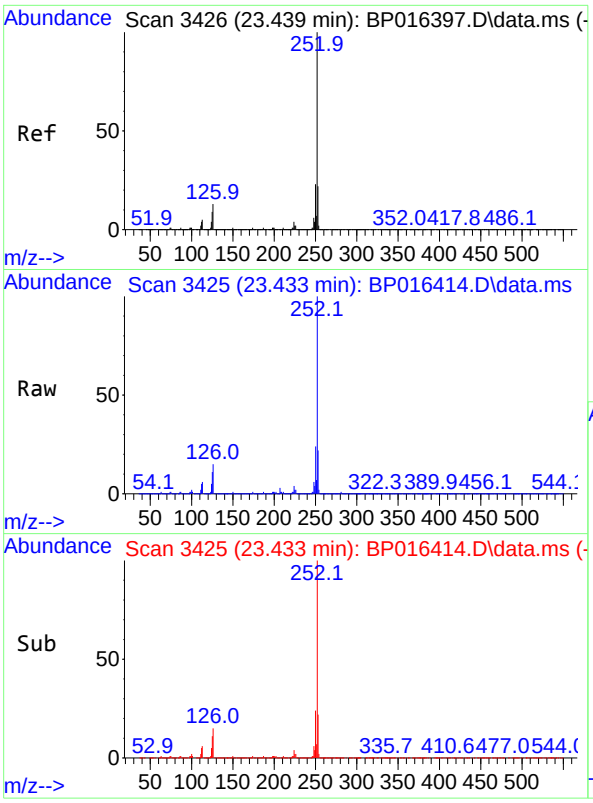


#88
Benzo(b)fluoranthene
Concen: 53.471 ng
RT: 23.380 min Scan# 3416
Delta R.T. -0.000 min
Lab File: BP016414.D
Acq: 28 Jul 2023 09:48

Tgt Ion:252 Resp: 5961691

Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.8	26.8
125	10.2	7.4	11.2

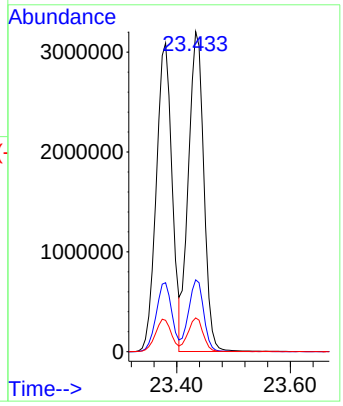




#89
Benzo(k)fluoranthene
Concen: 53.272 ng
RT: 23.433 min Scan# 34
Delta R.T. -0.006 min
Lab File: BP016414.D
Acq: 28 Jul 2023 09:48

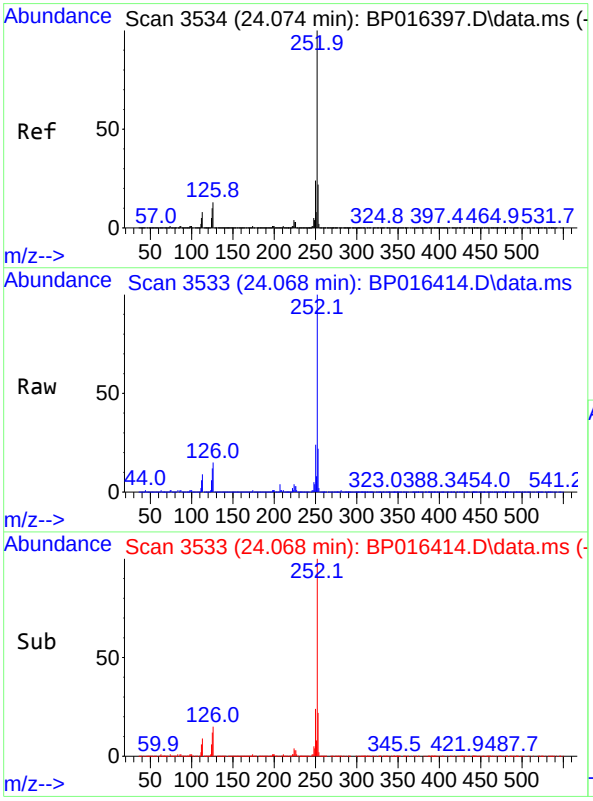
Tgt Ion:252 Resp: 604060

Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.8	26.8
125	10.6	7.1	10.7



Instrument :
BNA_P
ClientSampleId :
PB154218BSD

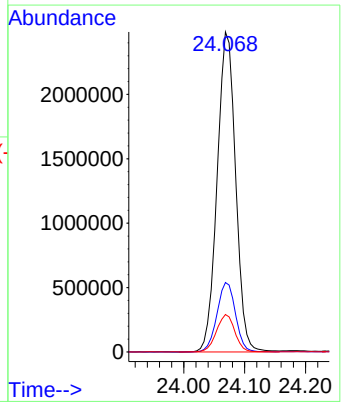
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

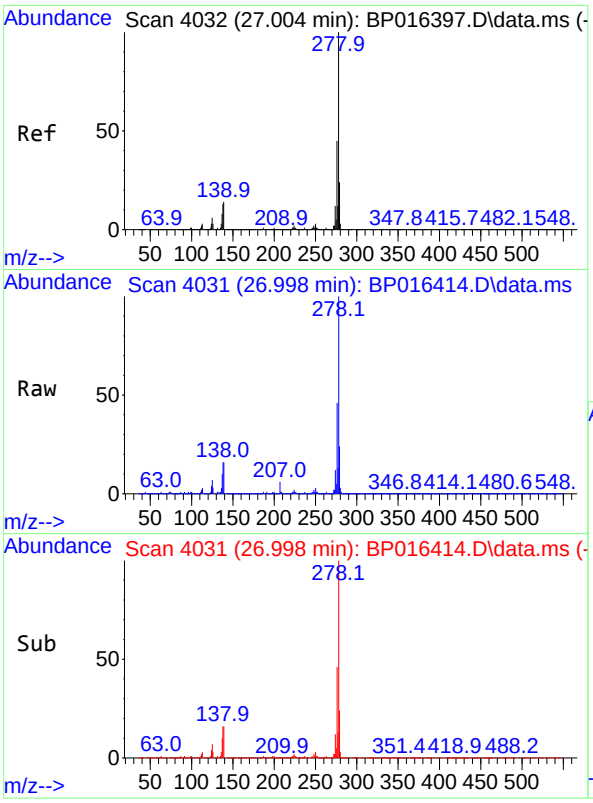


#90
Benzo(a)pyrene
Concen: 48.493 ng
RT: 24.068 min Scan# 3533
Delta R.T. -0.006 min
Lab File: BP016414.D
Acq: 28 Jul 2023 09:48

Tgt Ion:252 Resp: 5236999

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.8	26.6
125	11.7	8.3	12.5

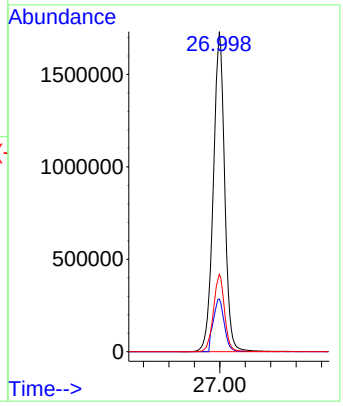




#91
Dibenzo(a,h)anthracene
Concen: 49.604 ng
RT: 26.998 min Scan# 4
Delta R.T. -0.006 min
Lab File: BP016414.D
Acq: 28 Jul 2023 09:48

Tgt Ion:278 Resp: 536424

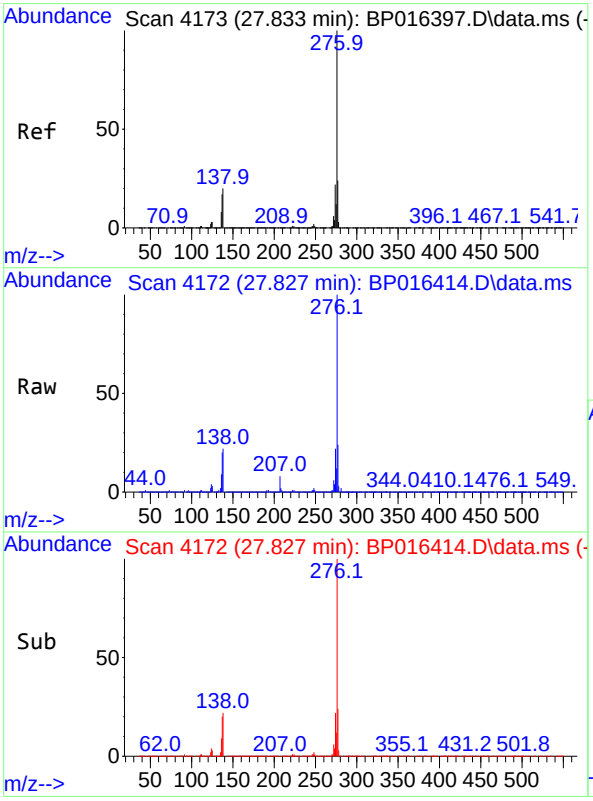
Ion	Ratio	Lower	Upper
278	100		
139	16.5	11.6	17.4
279	24.2	19.0	28.6



Instrument :
BNA_P
ClientSampleId :
PB154218BSD

Manual Integrations
APPROVED

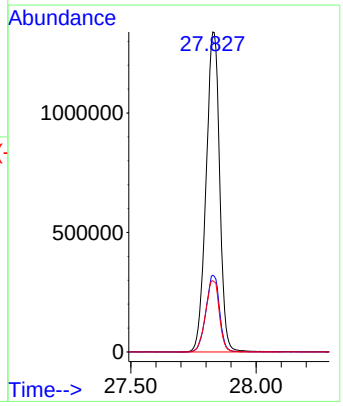
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023



#92
Benzo(g,h,i)perylene
Concen: 48.267 ng
RT: 27.827 min Scan# 4172
Delta R.T. -0.006 min
Lab File: BP016414.D
Acq: 28 Jul 2023 09:48

Tgt Ion:276 Resp: 5030024

Ion	Ratio	Lower	Upper
276	100		
277	23.9	19.2	28.8
138	22.2	16.1	24.1



CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/12/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-04-(1-5)MS	SDG No.:	O3645
Lab Sample ID:	O3645-09MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	91.3
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM041174.D	1	07/18/23 09:45	07/28/23 20:22	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	1700		160	360	ug/Kg
108-95-2	Phenol	1800		81.4	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1700		98.3	190	ug/Kg
95-57-8	2-Chlorophenol	1700		78.8	190	ug/Kg
95-48-7	2-Methylphenol	1600		120	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1700		110	190	ug/Kg
98-86-2	Acetophenone	1600		94.9	190	ug/Kg
65794-96-9	3+4-Methylphenols	1700		120	360	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1700		64.6	87.5	ug/Kg
67-72-1	Hexachloroethane	1700		80.5	190	ug/Kg
98-95-3	Nitrobenzene	1600		82.3	190	ug/Kg
78-59-1	Isophorone	1600		74.5	190	ug/Kg
88-75-5	2-Nitrophenol	1700		100	190	ug/Kg
105-67-9	2,4-Dimethylphenol	1700		110	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1600		120	190	ug/Kg
120-83-2	2,4-Dichlorophenol	1700		85.5	190	ug/Kg
91-20-3	Naphthalene	1600		89.1	190	ug/Kg
106-47-8	4-Chloroaniline	1400		110	190	ug/Kg
87-68-3	Hexachlorobutadiene	1600		91.9	190	ug/Kg
105-60-2	Caprolactam	1800		130	360	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1700		90.3	190	ug/Kg
91-57-6	2-Methylnaphthalene	1600		100	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	3400	E	230	360	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1700		84.4	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1600		96.2	190	ug/Kg
92-52-4	1,1-Biphenyl	1600		99.9	190	ug/Kg
91-58-7	2-Chloronaphthalene	1700		92.6	190	ug/Kg
88-74-4	2-Nitroaniline	1700		110	190	ug/Kg
131-11-3	Dimethylphthalate	1800		97.3	190	ug/Kg
208-96-8	Acenaphthylene	1600		96.7	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	1700		98.5	190	ug/Kg

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/12/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-04-(1-5)MS	SDG No.:	O3645
Lab Sample ID:	O3645-09MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	91.3
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM041174.D	1	07/18/23 09:45	07/28/23 20:22	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
99-09-2	3-Nitroaniline	1500		100	190	ug/Kg
83-32-9	Acenaphthene	1600		87.9	190	ug/Kg
51-28-5	2,4-Dinitrophenol	3000	E	200	360	ug/Kg
100-02-7	4-Nitrophenol	4100	E	120	360	ug/Kg
132-64-9	Dibenzofuran	1600		84.1	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	1600		110	190	ug/Kg
84-66-2	Diethylphthalate	1700		94.0	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1600		98.9	190	ug/Kg
86-73-7	Fluorene	1700		92.8	190	ug/Kg
100-01-6	4-Nitroaniline	1500		110	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1500		96.1	360	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1600		100	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1600		110	190	ug/Kg
118-74-1	Hexachlorobenzene	1700		110	190	ug/Kg
1912-24-9	Atrazine	2100		100	190	ug/Kg
87-86-5	Pentachlorophenol	3300	E	120	360	ug/Kg
85-01-8	Phenanthrene	1700		100	190	ug/Kg
120-12-7	Anthracene	1700		110	190	ug/Kg
86-74-8	Carbazole	1700		92.9	190	ug/Kg
84-74-2	Di-n-butylphthalate	1800		110	190	ug/Kg
206-44-0	Fluoranthene	1900		100	190	ug/Kg
129-00-0	Pyrene	1800		91.6	190	ug/Kg
85-68-7	Butylbenzylphthalate	1900		110	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1900		180	360	ug/Kg
56-55-3	Benzo(a)anthracene	1800		91.8	190	ug/Kg
218-01-9	Chrysene	1700		95.0	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1800		130	190	ug/Kg
117-84-0	Di-n-octyl phthalate	1900		130	360	ug/Kg
205-99-2	Benzo(b)fluoranthene	1900		87.9	190	ug/Kg
207-08-9	Benzo(k)fluoranthene	1700		96.4	190	ug/Kg
50-32-8	Benzo(a)pyrene	1600		100	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1700		120	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1700		110	190	ug/Kg

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/12/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-04-(1-5)MS	SDG No.:	O3645
Lab Sample ID:	O3645-09MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	91.3
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM041174.D	1	07/18/23 09:45	07/28/23 20:22	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
191-24-2	Benzo(g,h,i)perylene	1700		100	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1600		97.8	190	ug/Kg
123-91-1	1,4-Dioxane	1300		130	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1700		90.7	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	98.9		18 - 112	66%	SPK: 150
13127-88-3	Phenol-d6	101		21 - 104	68%	SPK: 150
4165-60-0	Nitrobenzene-d5	64.1		27 - 109	64%	SPK: 100
321-60-8	2-Fluorobiphenyl	63.7		30 - 103	64%	SPK: 100
118-79-6	2,4,6-Tribromophenol	104		10 - 121	70%	SPK: 150
1718-51-0	Terphenyl-d14	70.4		21 - 107	70%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	184000	7.804			
1146-65-2	Naphthalene-d8	716000	10.61			
15067-26-2	Acenaphthene-d10	398000	14.468			
1517-22-2	Phenanthrene-d10	828000	17.227			
1719-03-5	Chrysene-d12	796000	21.427			
1520-96-3	Perylene-d12	909000	23.797			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM072823\
Data File : BM041174.D
Acq On : 28 Jul 2023 20:22
Operator : MA/JU
Sample : 03645-09MS
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 29 01:18:24 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Jul 29 00:19:24 2023
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
SB-04-(1-5)MS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.804	152	183644	20.000	ng		0.00
21) Naphthalene-d8	10.610	136	715690	20.000	ng		0.00
39) Acenaphthene-d10	14.468	164	398072	20.000	ng		0.00
64) Phenanthrene-d10	17.227	188	828030	20.000	ng		0.00
76) Chrysene-d12	21.427	240	795964	20.000	ng		0.00
86) Perylene-d12	23.797	264	909051	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.375	112	1215767	98.945	ng		0.00
7) Phenol-d6	6.987	99	1614607	101.374	ng		0.00
23) Nitrobenzene-d5	8.981	82	986226	64.084	ng		0.00
42) 2,4,6-Tribromophenol	15.968	330	587357	104.317	ng		0.00
45) 2-Fluorobiphenyl	13.086	172	2008303	63.732	ng		0.00
79) Terphenyl-d14	19.862	244	3097262	70.355	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.269	88	194403	36.984	ng		98
3) Pyridine	3.675	79	475310m	34.391	ng		
4) n-Nitrosodimethylamine	3.587	42	276666	43.283	ng		97
6) Aniline	7.139	93	755093	40.510	ng		98
8) 2-Chlorophenol	7.369	128	565308	47.127	ng		100
9) Benzaldehyde	6.951	77	386141m	45.946	ng		
10) Phenol	7.010	94	742285	48.253	ng		99
11) bis(2-Chloroethyl)ether	7.239	93	569325	45.721	ng		100
12) 1,3-Dichlorobenzene	7.692	146	608495	46.602	ng		99
13) 1,4-Dichlorobenzene	7.839	146	615311	46.884	ng		99
14) 1,2-Dichlorobenzene	8.157	146	591318	46.991	ng		99
15) Benzyl Alcohol	8.063	79	508989	50.604	ng		99
16) 2,2'-oxybis(1-Chloropr...	8.345	45	757269	45.643	ng		99
17) 2-Methylphenol	8.263	107	473547	45.058	ng		99
18) Hexachloroethane	8.875	117	230620	47.200	ng		95
19) n-Nitroso-di-n-propyla...	8.628	70	450132	46.529	ng		100
20) 3+4-Methylphenols	8.592	107	647067	46.048	ng		98
22) Acetophenone	8.645	105	835065	44.056	ng	#	100
24) Nitrobenzene	9.022	77	662703	42.581	ng		98
25) Isophorone	9.551	82	1170089	44.789	ng		99
26) 2-Nitrophenol	9.733	139	282734	46.472	ng		99
27) 2,4-Dimethylphenol	9.798	122	486798	45.470	ng		99
28) bis(2-Chloroethoxy)met...	10.033	93	727043	44.429	ng		99
29) 2,4-Dichlorophenol	10.269	162	506036	46.871	ng		99
30) 1,2,4-Trichlorobenzene	10.475	180	533981	44.766	ng		99
31) Naphthalene	10.663	128	1676343	43.163	ng		99
32) Benzoic acid	9.957	122	363937	45.670	ng		98
33) 4-Chloroaniline	10.792	127	590935	38.074	ng		99
34) Hexachlorobutadiene	10.933	225	313357	43.679	ng		98
35) Caprolactam	11.604	113	153455m	49.134	ng		
36) 4-Chloro-3-methylphenol	11.922	107	536644	47.226	ng		100
37) 2-Methylnaphthalene	12.280	142	1132072	43.236	ng		99
38) 1-Methylnaphthalene	12.504	142	1056646	43.118	ng		100
40) 1,2,4,5-Tetrachloroben...	12.651	216	569598	44.067	ng		99
41) Hexachlorocyclopentadiene	12.616	237	640660	93.686	ng		98
43) 2,4,6-Trichlorophenol	12.898	196	389735	47.043	ng		100

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM072823\
Data File : BM041174.D
Acq On : 28 Jul 2023 20:22
Operator : MA/JU
Sample : 03645-09MS
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 29 01:18:24 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Jul 29 00:19:24 2023
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
SB-04-(1-5)MS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.969	196	424941	44.316	ng	98
46) 1,1'-Biphenyl	13.298	154	1424448	44.140	ng	99
47) 2-Chloronaphthalene	13.345	162	1093568	45.384	ng	99
48) 2-Nitroaniline	13.563	65	366853	47.696	ng	98
49) Acenaphthylene	14.192	152	1737954	44.686	ng	100
50) Dimethylphthalate	13.939	163	1448831	48.385	ng	100
51) 2,6-Dinitrotoluene	14.063	165	285094	45.951	ng	96
52) Acenaphthene	14.533	154	1048736	44.760	ng	98
53) 3-Nitroaniline	14.398	138	294021	41.331	ng	98
54) 2,4-Dinitrophenol	14.610	184	349907	83.258	ng	96
55) Dibenzofuran	14.874	168	1678610	43.911	ng	99
56) 4-Nitrophenol	14.715	139	577725	111.728	ng	97
57) 2,4-Dinitrotoluene	14.857	165	388877	44.119	ng	98
58) Fluorene	15.521	166	1370718	45.453	ng	100
59) 2,3,4,6-Tetrachlorophenol	15.104	232	366669	47.222	ng	99
60) Diethylphthalate	15.304	149	1318439	45.531	ng	99
61) 4-Chlorophenyl-phenyle...	15.521	204	676999	44.799	ng	98
62) 4-Nitroaniline	15.568	138	275767	42.220	ng	98
63) Azobenzene	15.815	77	1458339	45.977	ng	98
65) 4,6-Dinitro-2-methylph...	15.621	198	210656	41.995	ng	99
66) n-Nitrosodiphenylamine	15.739	169	1136297	44.124	ng	99
67) 4-Bromophenyl-phenylether	16.415	248	405642	44.681	ng	98
68) Hexachlorobenzene	16.527	284	476517	47.203	ng	99
69) Atrazine	16.704	200	394558	58.341	ng	100
70) Pentachlorophenol	16.880	266	625435	89.470	ng	99
71) Phenanthrene	17.274	178	2197642	47.769	ng	100
72) Anthracene	17.362	178	2084323	45.809	ng	100
73) Carbazole	17.645	167	1944685	47.221	ng	99
74) Di-n-butylphthalate	18.203	149	2353018	50.563	ng	100
75) Fluoranthene	19.292	202	2656018	51.387	ng	99
77) Benzidine	19.492	184	795803	73.353	ng	99
78) Pyrene	19.656	202	2723302	48.925	ng	99
80) Butylbenzylphthalate	20.562	149	1068997	52.590	ng	99
81) Benzo(a)anthracene	21.415	228	2604693	48.271	ng	99
82) 3,3'-Dichlorobenzidine	21.350	252	932481	52.959	ng	100
83) Chrysene	21.468	228	2382954	45.657	ng	100
84) Bis(2-ethylhexyl)phtha...	21.339	149	1598976	49.452	ng	97
85) Di-n-octyl phthalate	22.256	149	2704637	52.647	ng	99
87) Indeno(1,2,3-cd)pyrene	26.250	276	3188493	47.707	ng	99
88) Benzo(b)fluoranthene	23.080	252	2771128	51.314	ng	99
89) Benzo(k)fluoranthene	23.127	252	2545370	46.078	ng	99
90) Benzo(a)pyrene	23.697	252	2340823	45.112	ng	99
91) Dibenzo(a,h)anthracene	26.268	278	2575983	46.209	ng	99
92) Benzo(g,h,i)perylene	27.003	276	2555436	46.849	ng	100

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

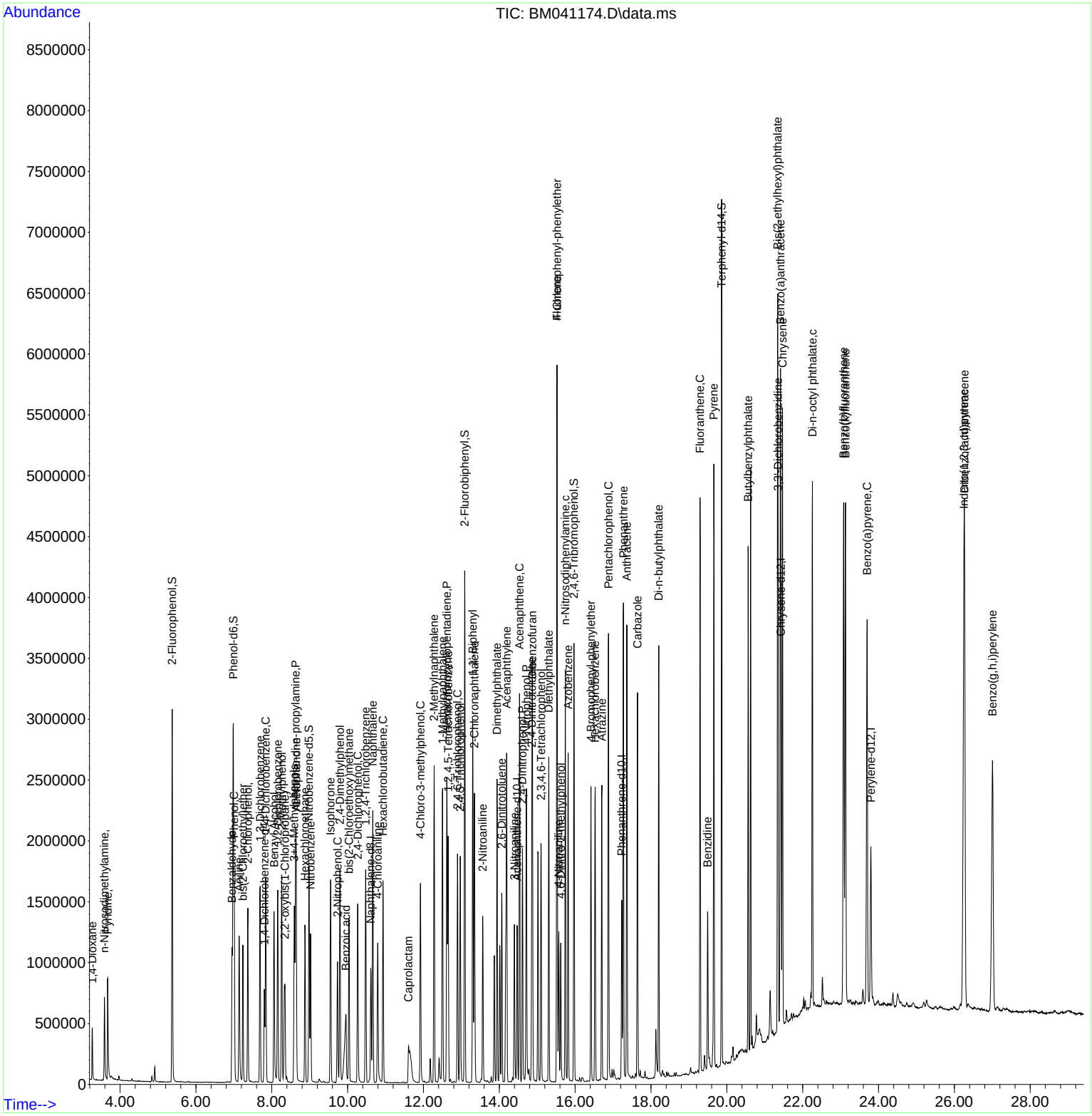
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM072823\
Data File : BM041174.D
Acq On : 28 Jul 2023 20:22
Operator : MA/JU
Sample : 03645-09MS
Misc :
ALS Vial : 7 Sample Multiplier: 1

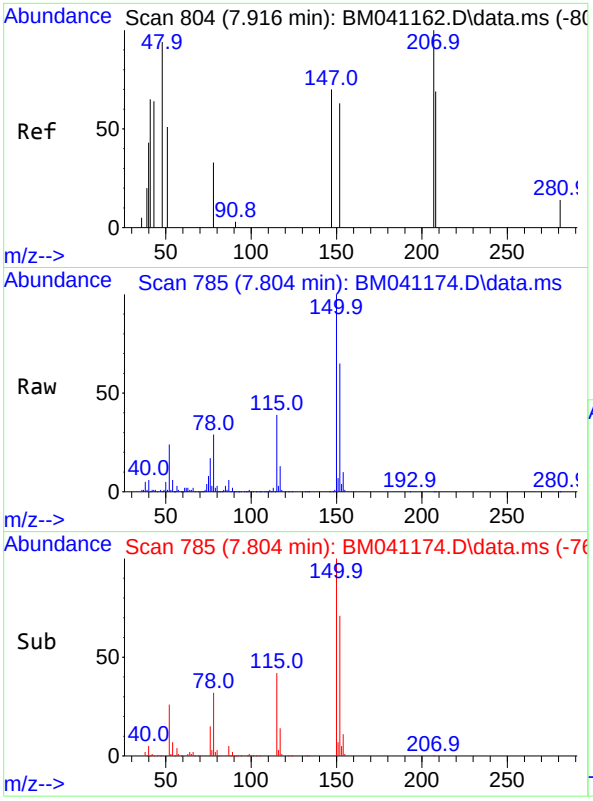
Quant Time: Jul 29 01:18:24 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Jul 29 00:19:24 2023
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
SB-04-(1-5)MS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

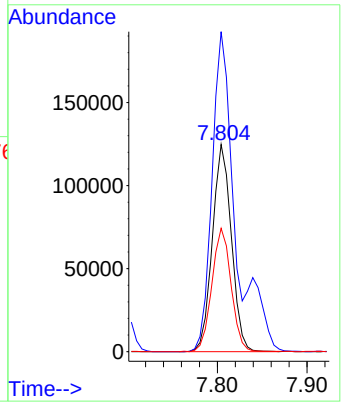




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.804 min Scan# 7
Delta R.T. 0.000 min
Lab File: BM041174.D
Acq: 28 Jul 2023 20:22

Tgt Ion:152 Resp: 18364

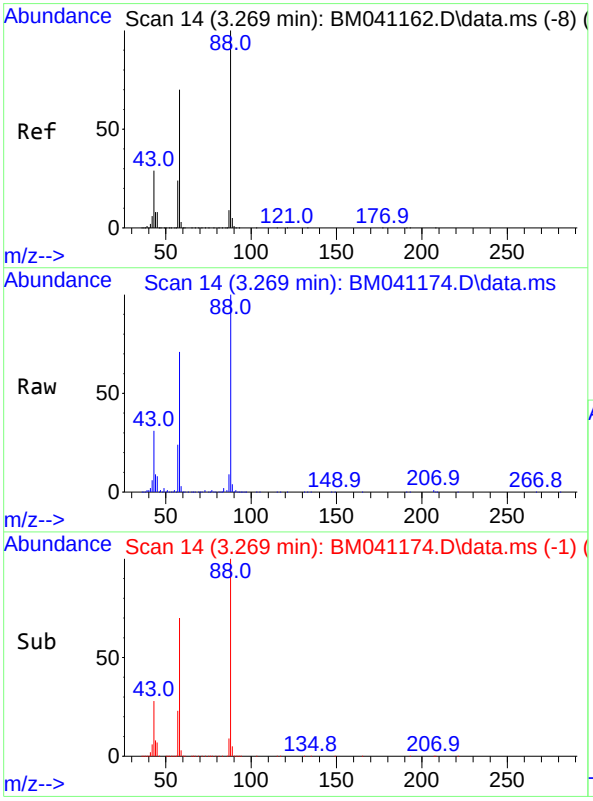
Ion	Ratio	Lower	Upper
152	100		
150	154.4	125.5	188.3
115	59.5	48.0	72.0



Instrument :
BNA_M
ClientSampleId :
SB-04-(1-5)MS

Manual Integrations
APPROVED

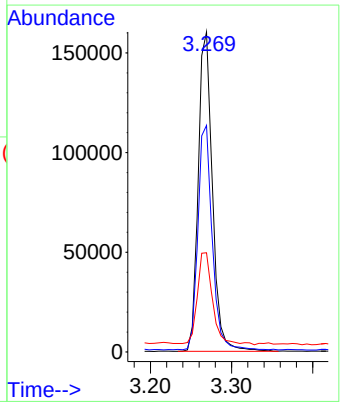
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

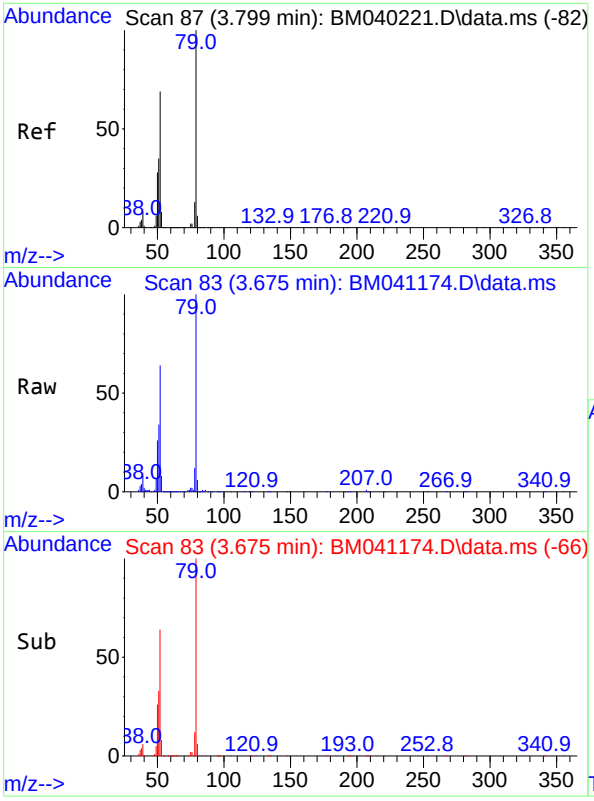


#2
1,4-Dioxane
Concen: 36.984 ng
RT: 3.269 min Scan# 14
Delta R.T. -0.000 min
Lab File: BM041174.D
Acq: 28 Jul 2023 20:22

Tgt Ion: 88 Resp: 194403

Ion	Ratio	Lower	Upper
88	100		
58	71.0	58.2	87.4
43	31.1	24.4	36.6

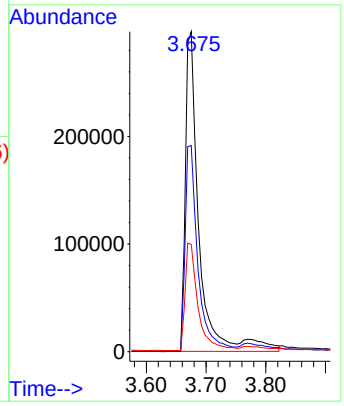




#3
Pyridine
Concen: 34.391 ng m
RT: 3.675 min Scan# 8
Delta R.T. -0.000 min
Lab File: BM041174.D
Acq: 28 Jul 2023 20:22

Tgt Ion: 79 Resp: 47531

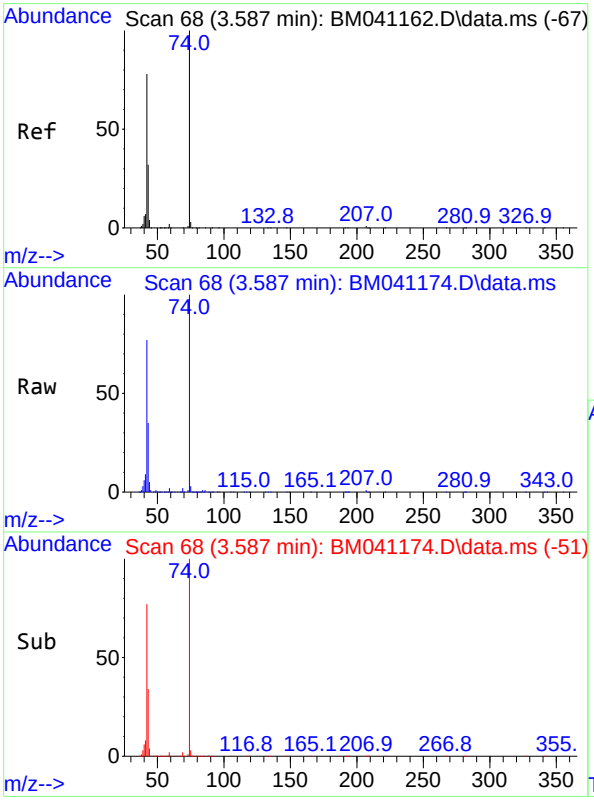
Ion	Ratio	Lower	Upper
79	100		
52	64.4	52.1	78.1
51	33.6	27.5	41.3



Instrument :
BNA_M
ClientSampleId :
SB-04-(1-5)MS

Manual Integrations
APPROVED

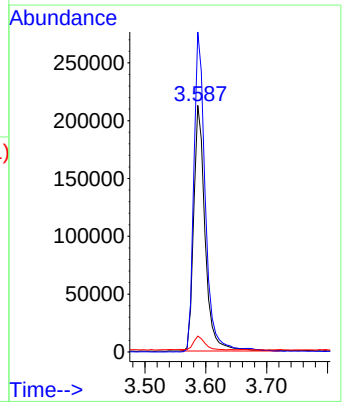
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

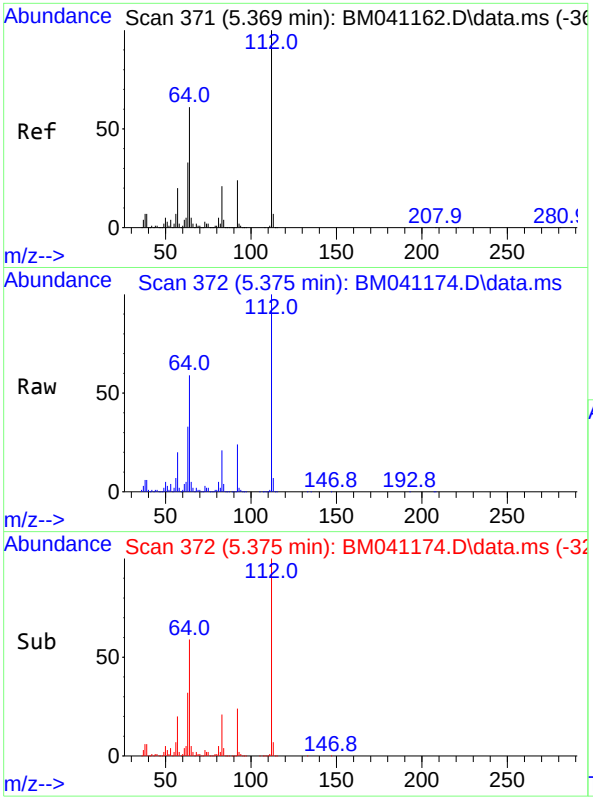


#4
n-Nitrosodimethylamine
Concen: 43.283 ng
RT: 3.587 min Scan# 68
Delta R.T. -0.000 min
Lab File: BM041174.D
Acq: 28 Jul 2023 20:22

Tgt Ion: 42 Resp: 276666

Ion	Ratio	Lower	Upper
42	100		
74	129.8	100.8	151.2
44	6.4	5.0	7.4

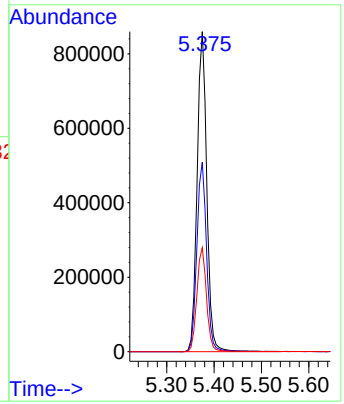




#5
2-Fluorophenol
Concen: 98.945 ng
RT: 5.375 min Scan# 3
Delta R.T. 0.006 min
Lab File: BM041174.D
Acq: 28 Jul 2023 20:22

Tgt Ion:112 Resp: 121576

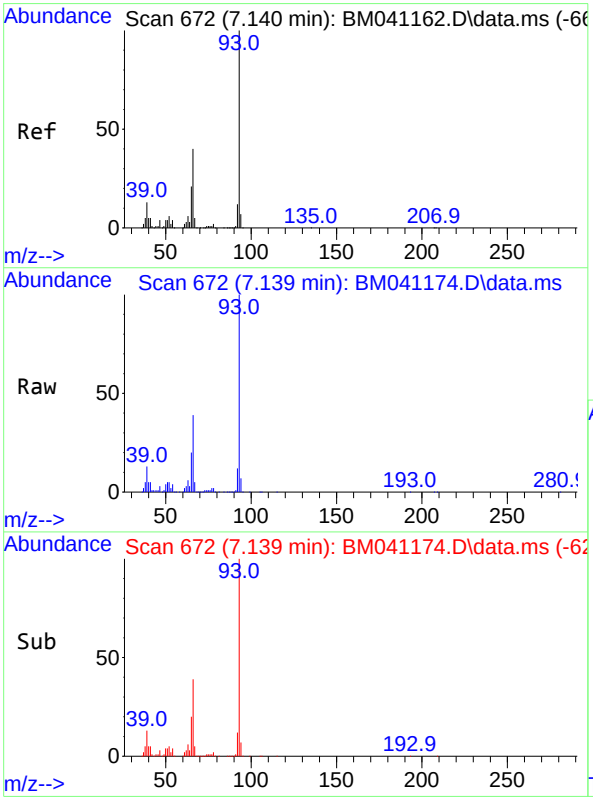
Ion	Ratio	Lower	Upper
112	100		
64	59.2	48.5	72.7
63	32.5	26.5	39.7



Instrument :
BNA_M
ClientSampleId :
SB-04-(1-5)MS

Manual Integrations
APPROVED

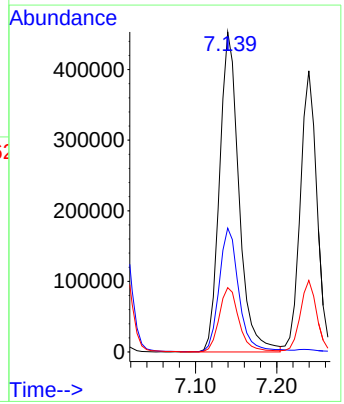
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

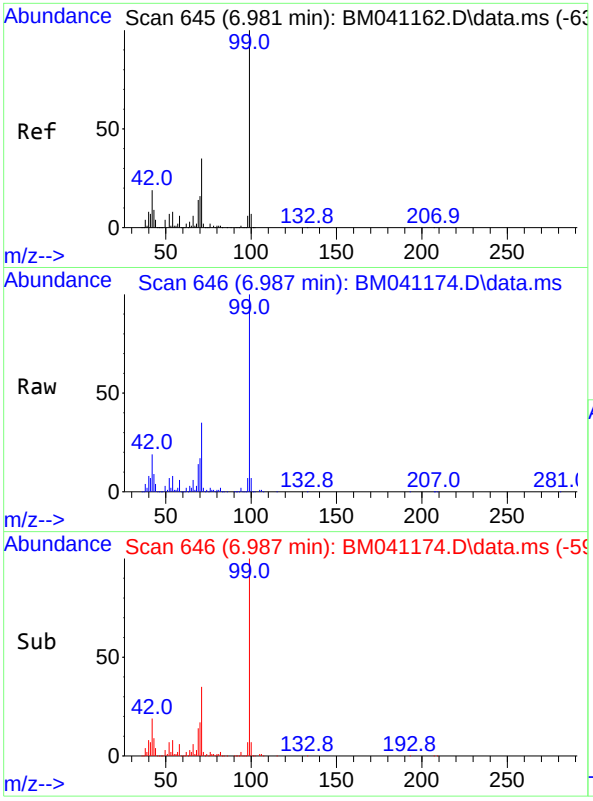


#6
Aniline
Concen: 40.510 ng
RT: 7.139 min Scan# 672
Delta R.T. -0.000 min
Lab File: BM041174.D
Acq: 28 Jul 2023 20:22

Tgt Ion: 93 Resp: 755093

Ion	Ratio	Lower	Upper
93	100		
66	38.7	32.0	48.0
65	20.1	16.6	24.8

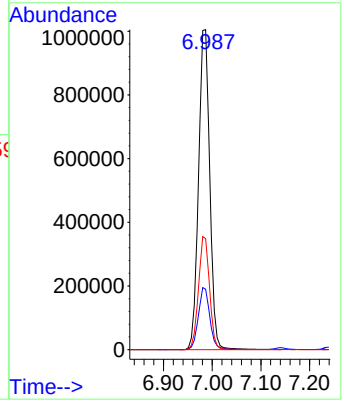




#7
Phenol-d6
Concen: 101.374 ng
RT: 6.987 min Scan# 64
Delta R.T. 0.006 min
Lab File: BM041174.D
Acq: 28 Jul 2023 20:22

Tgt Ion: 99 Resp: 161460

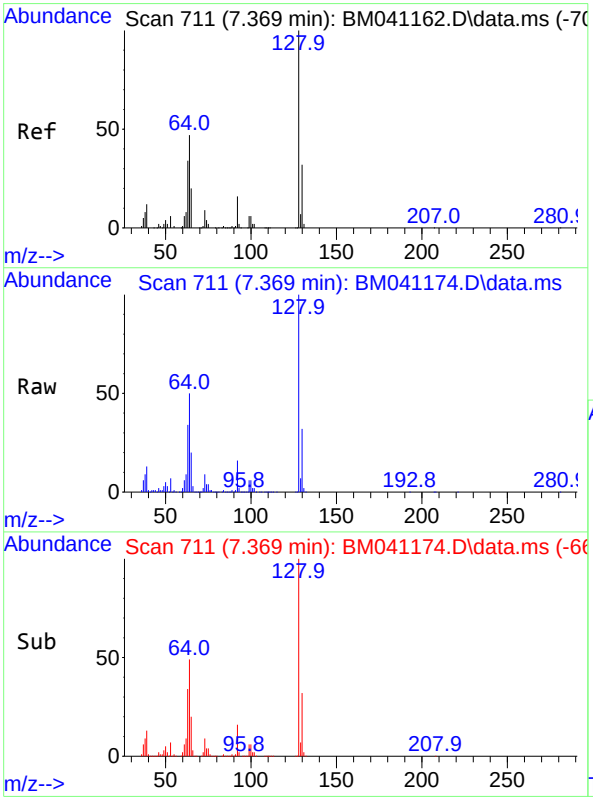
Ion	Ratio	Lower	Upper
99	100		
42	18.9	15.4	23.0
71	34.7	28.2	42.4



Instrument :
BNA_M
ClientSampleId :
SB-04-(1-5)MS

Manual Integrations
APPROVED

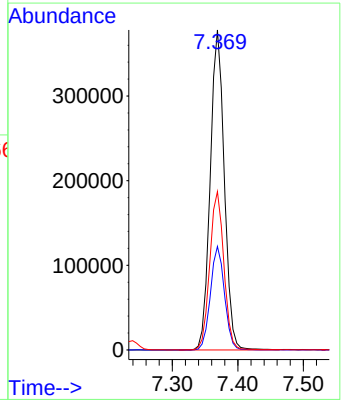
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

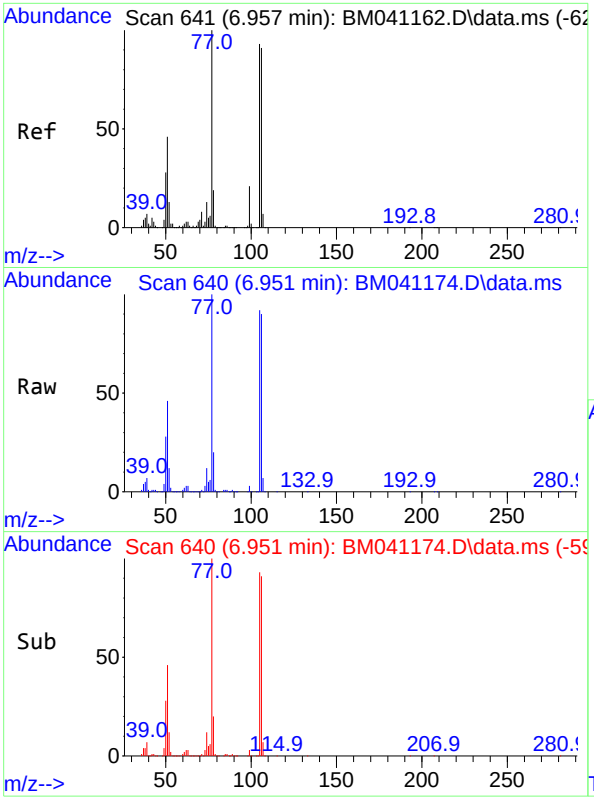


#8
2-Chlorophenol
Concen: 47.127 ng
RT: 7.369 min Scan# 711
Delta R.T. -0.000 min
Lab File: BM041174.D
Acq: 28 Jul 2023 20:22

Tgt Ion:128 Resp: 565308

Ion	Ratio	Lower	Upper
128	100		
130	32.4	12.3	52.3
64	49.5	29.3	69.3

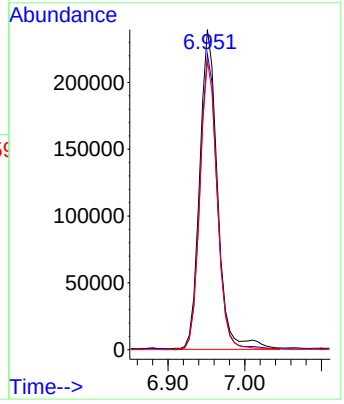




#9
Benzaldehyde
Concen: 45.946 ng m
RT: 6.951 min Scan# 64
Delta R.T. -0.006 min
Lab File: BM041174.D
Acq: 28 Jul 2023 20:22

Tgt Ion: 77 Resp: 38614

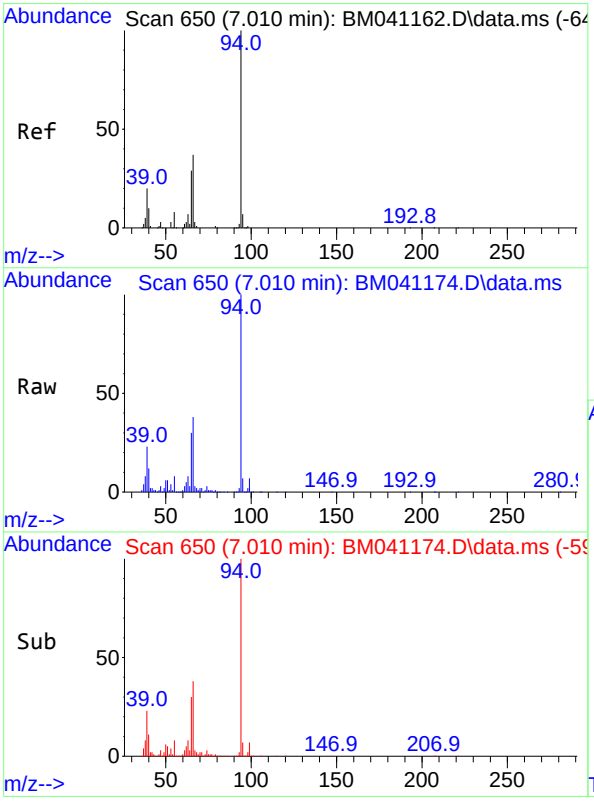
Ion	Ratio	Lower	Upper
77	100		
105	92.4	72.8	112.8
106	90.3	70.8	110.8



Instrument :
BNA_M
ClientSampleId :
SB-04-(1-5)MS

Manual Integrations
APPROVED

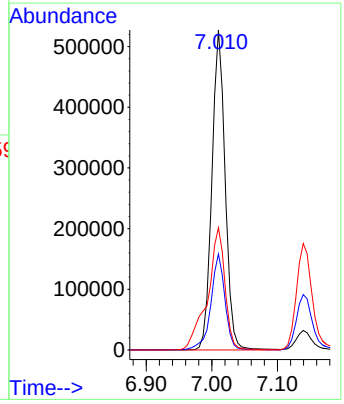
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

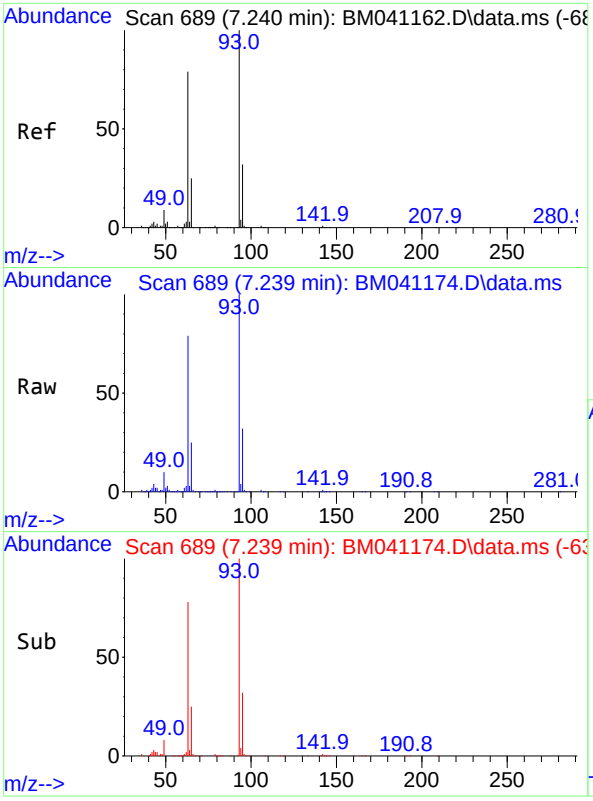


#10
Phenol
Concen: 48.253 ng
RT: 7.010 min Scan# 650
Delta R.T. -0.000 min
Lab File: BM041174.D
Acq: 28 Jul 2023 20:22

Tgt Ion: 94 Resp: 742285

Ion	Ratio	Lower	Upper
94	100		
65	30.0	9.5	49.5
66	38.2	18.0	58.0

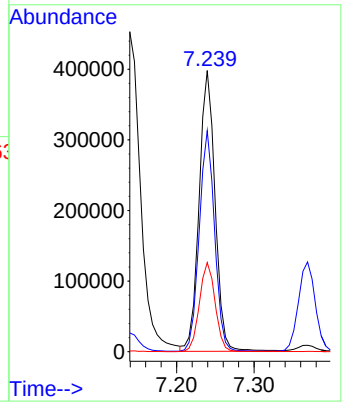




#11
bis(2-Chloroethyl)ether
Concen: 45.721 ng
RT: 7.239 min Scan# 6
Delta R.T. -0.000 min
Lab File: BM041174.D
Acq: 28 Jul 2023 20:22

Tgt Ion: 93 Resp: 56932

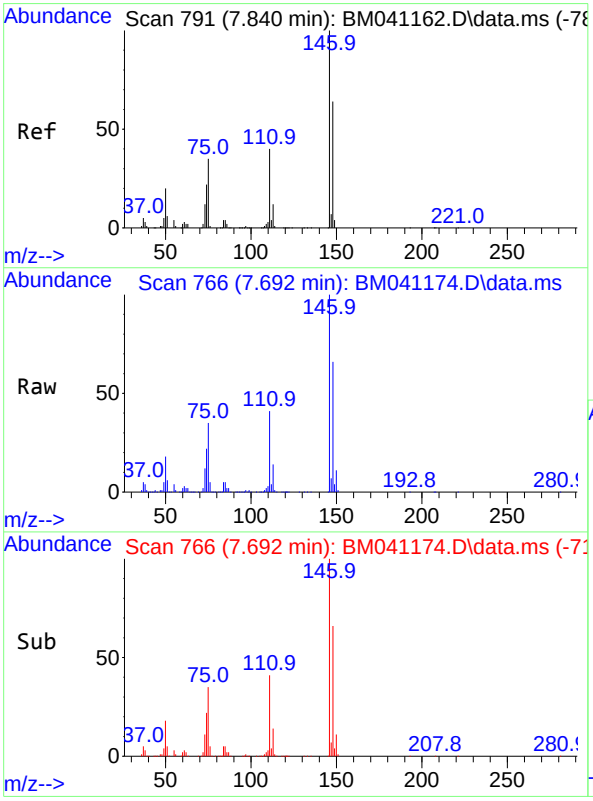
Ion	Ratio	Lower	Upper
93	100		
63	78.6	58.8	98.8
95	31.7	11.8	51.8



Instrument :
BNA_M
ClientSampleId :
SB-04-(1-5)MS

Manual Integrations
APPROVED

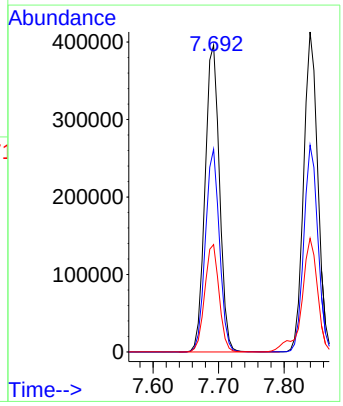
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

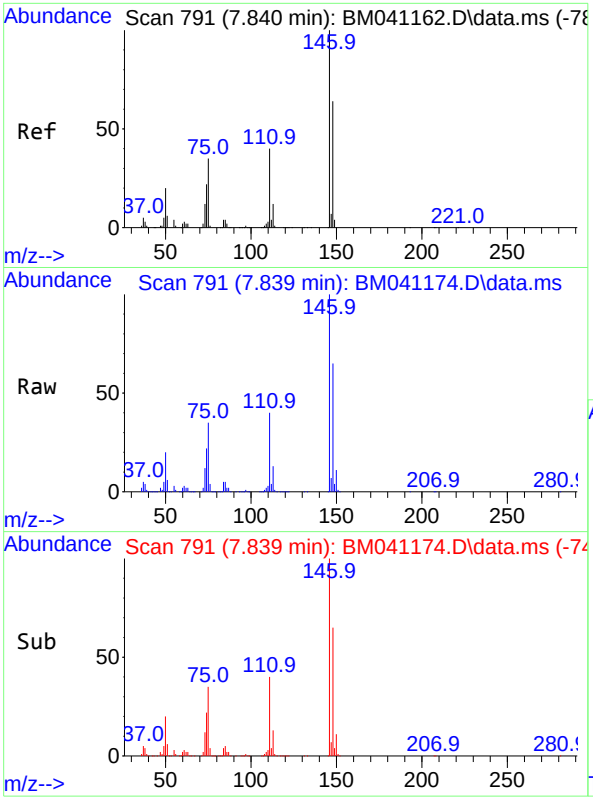


#12
1,3-Dichlorobenzene
Concen: 46.602 ng
RT: 7.692 min Scan# 766
Delta R.T. -0.000 min
Lab File: BM041174.D
Acq: 28 Jul 2023 20:22

Tgt Ion:146 Resp: 608495

Ion	Ratio	Lower	Upper
146	100		
148	66.1	51.9	77.9
75	35.0	28.3	42.5

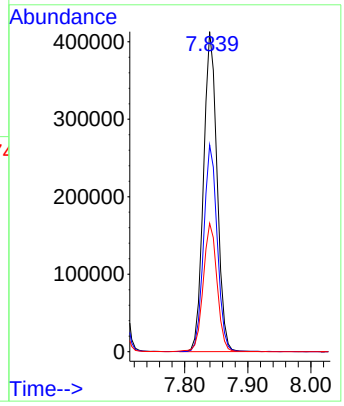




#13
1,4-Dichlorobenzene
Concen: 46.884 ng
RT: 7.839 min Scan# 7
Delta R.T. -0.000 min
Lab File: BM041174.D
Acq: 28 Jul 2023 20:22

Tgt Ion:146 Resp: 61531

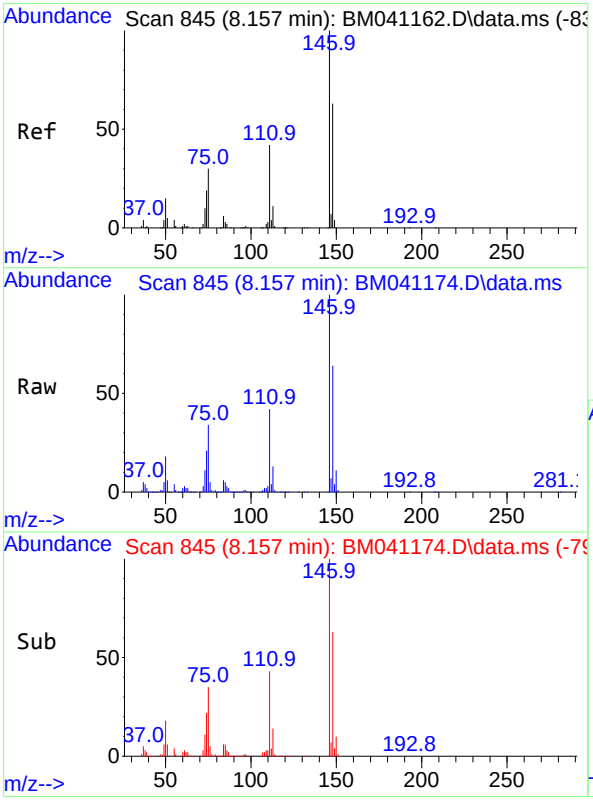
Ion	Ratio	Lower	Upper
146	100		
148	64.6	51.4	77.0
111	40.1	32.4	48.6



Instrument :
BNA_M
ClientSampleId :
SB-04-(1-5)MS

Manual Integrations
APPROVED

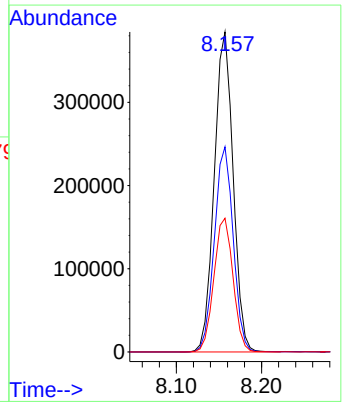
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

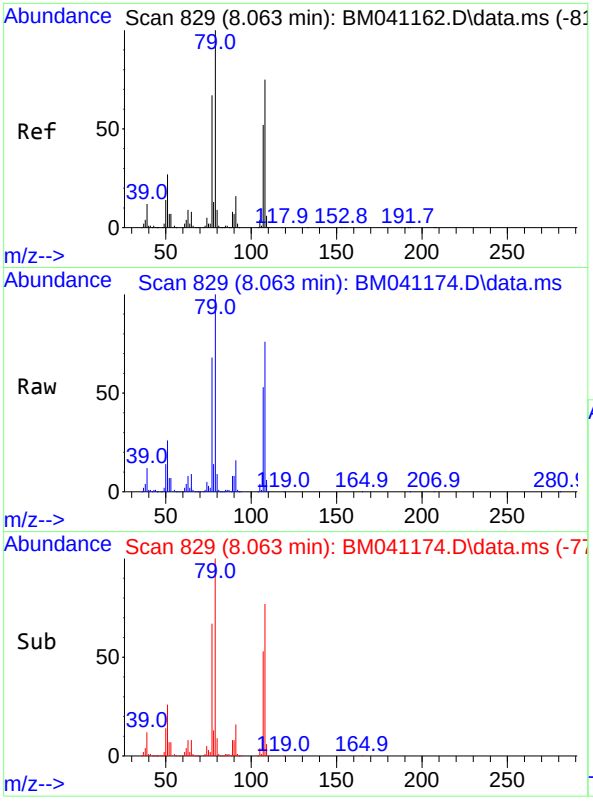


#14
1,2-Dichlorobenzene
Concen: 46.991 ng
RT: 8.157 min Scan# 845
Delta R.T. -0.000 min
Lab File: BM041174.D
Acq: 28 Jul 2023 20:22

Tgt Ion:146 Resp: 591318

Ion	Ratio	Lower	Upper
146	100		
148	64.1	50.9	76.3
111	41.8	33.8	50.6

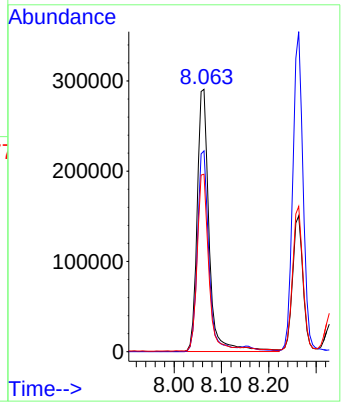




#15
Benzyl Alcohol
Concen: 50.604 ng
RT: 8.063 min Scan# 8
Delta R.T. -0.000 min
Lab File: BM041174.D
Acq: 28 Jul 2023 20:22

Tgt Ion: 79 Resp: 50898

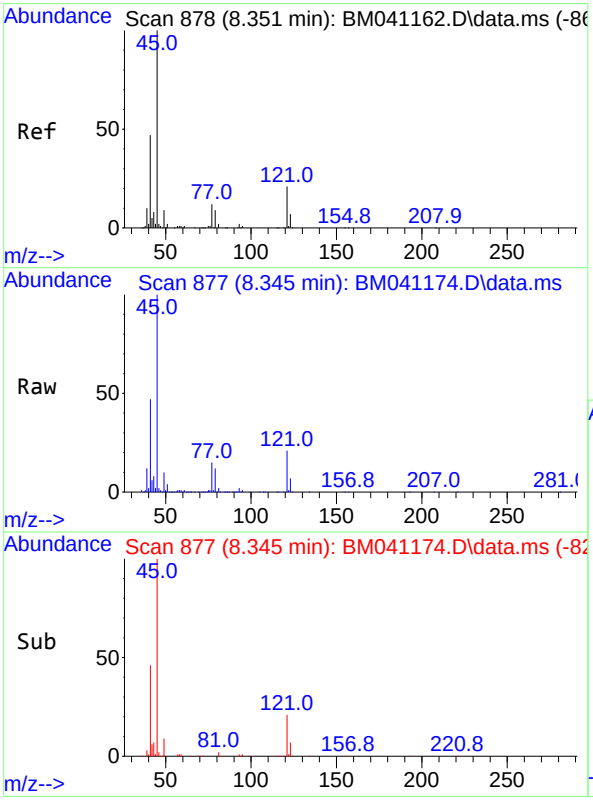
Ion	Ratio	Lower	Upper
79	100		
108	76.5	59.8	89.8
77	67.6	53.8	80.6



Instrument :
BNA_M
ClientSampleId :
SB-04-(1-5)MS

Manual Integrations
APPROVED

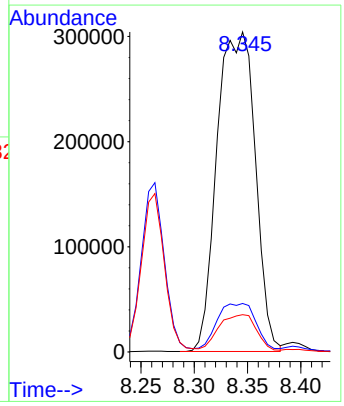
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

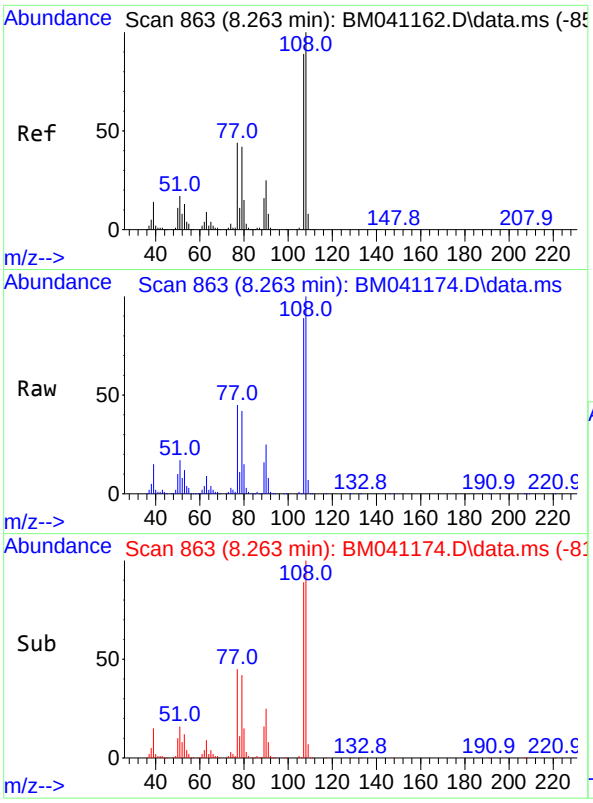


#16
2,2'-oxybis(1-Chloropropane)
Concen: 45.643 ng
RT: 8.345 min Scan# 877
Delta R.T. -0.006 min
Lab File: BM041174.D
Acq: 28 Jul 2023 20:22

Tgt Ion: 45 Resp: 757269

Ion	Ratio	Lower	Upper
45	100		
77	15.2	0.0	34.5
79	11.7	0.0	32.1

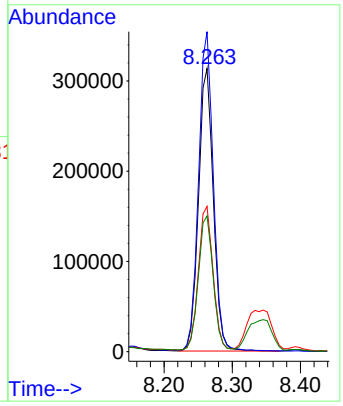




#17
2-Methylphenol
Concen: 45.058 ng
RT: 8.263 min Scan# 8
Delta R.T. -0.000 min
Lab File: BM041174.D
Acq: 28 Jul 2023 20:22

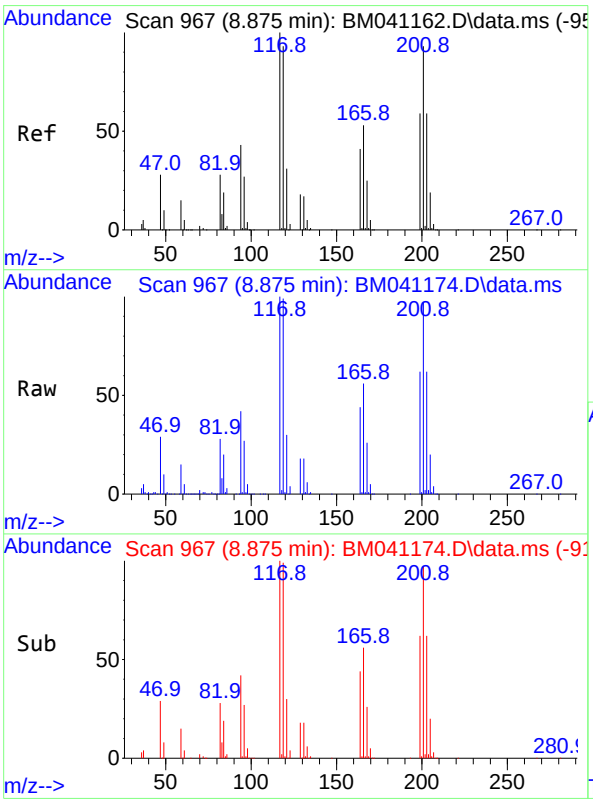
Tgt Ion:107 Resp: 47354

Ion	Ratio	Lower	Upper
107	100		
108	113.0	89.9	134.9
77	51.3	39.8	59.8
79	48.0	37.7	56.5



Instrument :
BNA_M
ClientSampleId :
SB-04-(1-5)MS

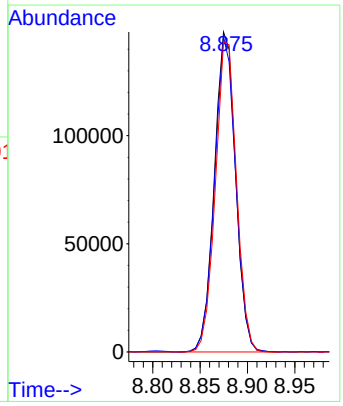
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

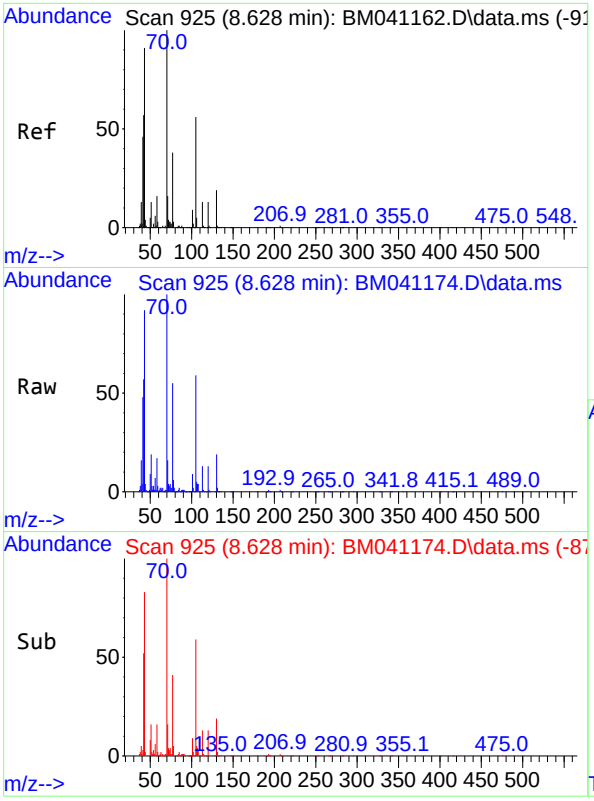


#18
Hexachloroethane
Concen: 47.200 ng
RT: 8.875 min Scan# 967
Delta R.T. -0.000 min
Lab File: BM041174.D
Acq: 28 Jul 2023 20:22

Tgt Ion:117 Resp: 230620

Ion	Ratio	Lower	Upper
117	100		
119	98.6	74.2	111.4
201	97.0	74.5	111.7

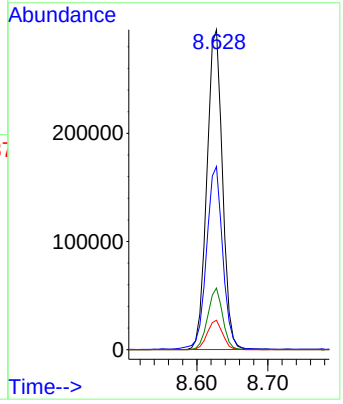




#19
n-Nitroso-di-n-propylamine
Concen: 46.529 ng
RT: 8.628 min Scan# 9
Delta R.T. -0.000 min
Lab File: BM041174.D
Acq: 28 Jul 2023 20:22

Tgt Ion: 70 Resp: 45013

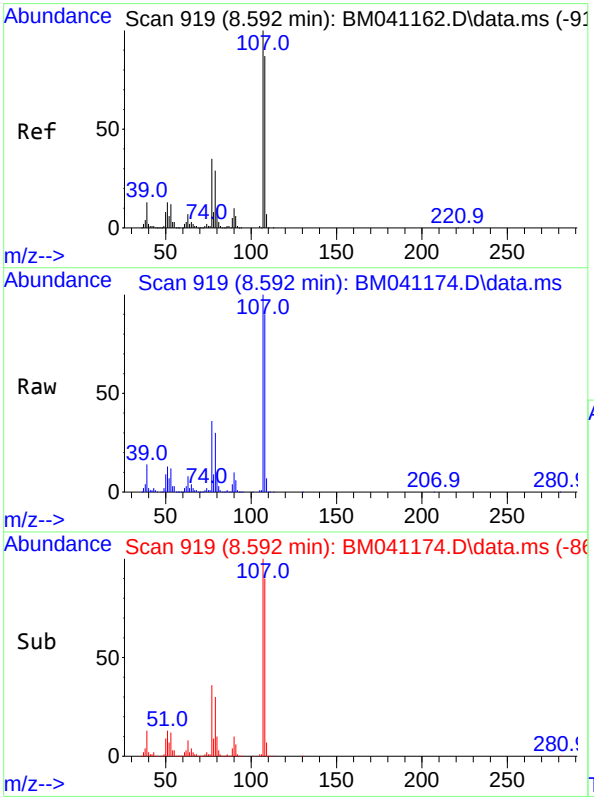
Ion	Ratio	Lower	Upper
70	100		
42	57.3	45.8	68.8
101	9.2	7.4	11.0
130	19.3	15.2	22.8



Instrument :
BNA_M
ClientSampleId :
SB-04-(1-5)MS

Manual Integrations
APPROVED

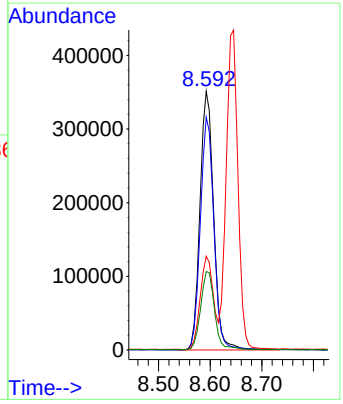
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

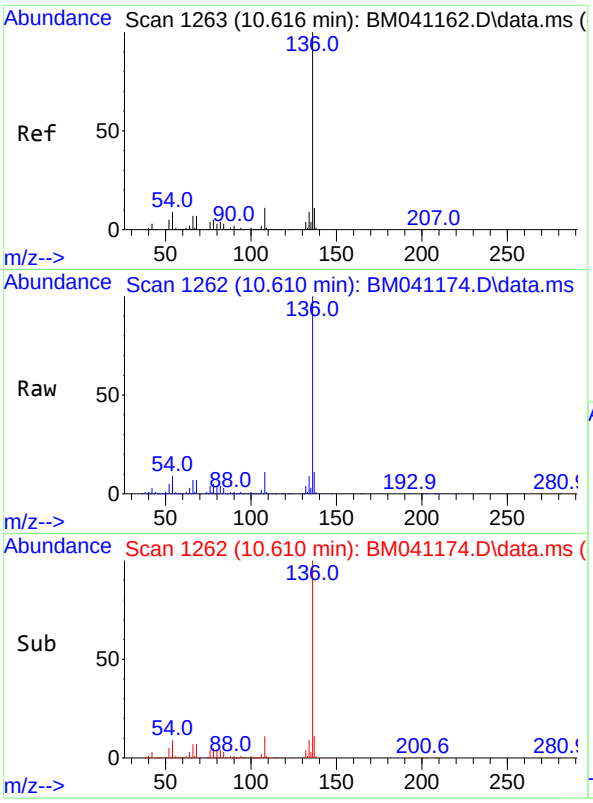


#20
3+4-Methylphenols
Concen: 46.048 ng
RT: 8.592 min Scan# 919
Delta R.T. -0.000 min
Lab File: BM041174.D
Acq: 28 Jul 2023 20:22

Tgt Ion:107 Resp: 647067

Ion	Ratio	Lower	Upper
107	100		
108	90.0	67.2	107.2
77	36.2	15.4	55.4
79	30.3	9.2	49.2

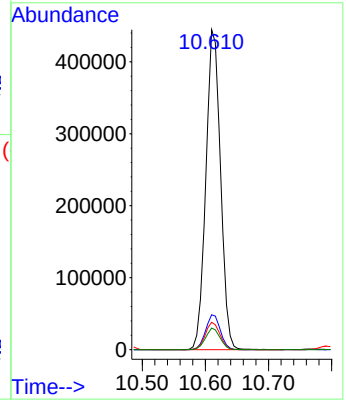




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.610 min Scan# 1
Delta R.T. -0.006 min
Lab File: BM041174.D
Acq: 28 Jul 2023 20:22

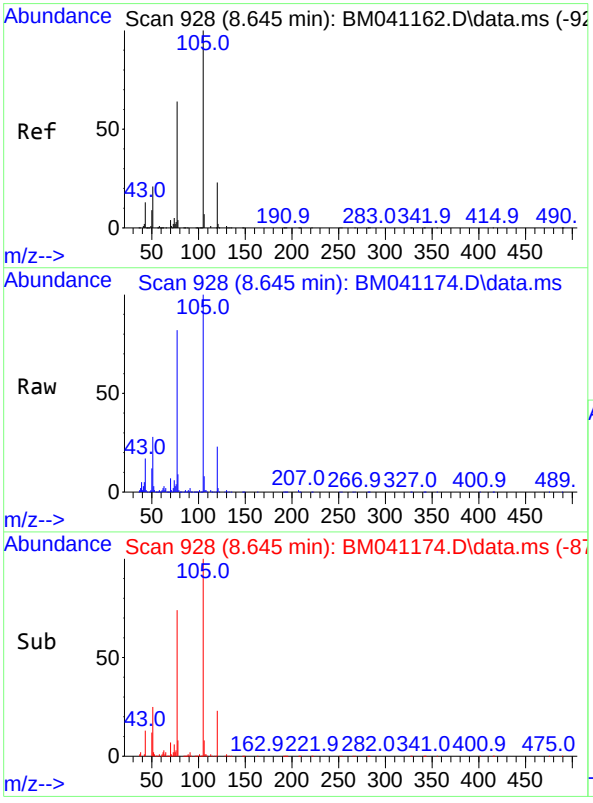
Tgt Ion:136 Resp: 71569

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.8	13.2
54	8.5	6.9	10.3
68	6.7	5.4	8.2



Instrument :
BNA_M
ClientSampleId :
SB-04-(1-5)MS

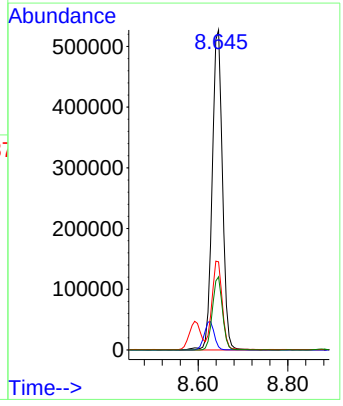
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

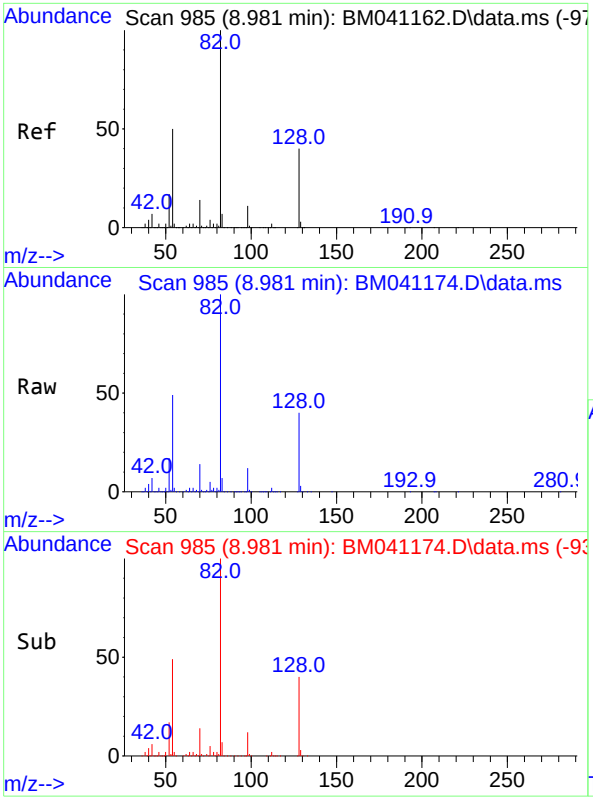


#22
Acetophenone
Concen: 44.056 ng
RT: 8.645 min Scan# 928
Delta R.T. -0.000 min
Lab File: BM041174.D
Acq: 28 Jul 2023 20:22

Tgt Ion:105 Resp: 835065

Ion	Ratio	Lower	Upper
105	100		
71	1.0	1.2	1.8#
51	27.5	22.0	33.0
120	22.8	18.0	27.0

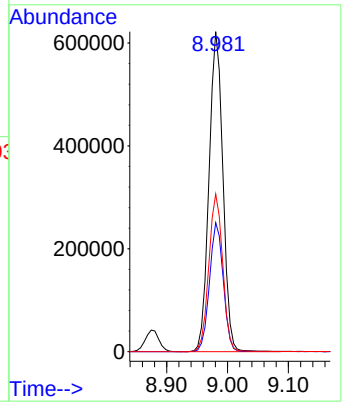




#23
Nitrobenzene-d5
Concen: 64.084 ng
RT: 8.981 min Scan# 9
Delta R.T. -0.000 min
Lab File: BM041174.D
Acq: 28 Jul 2023 20:22

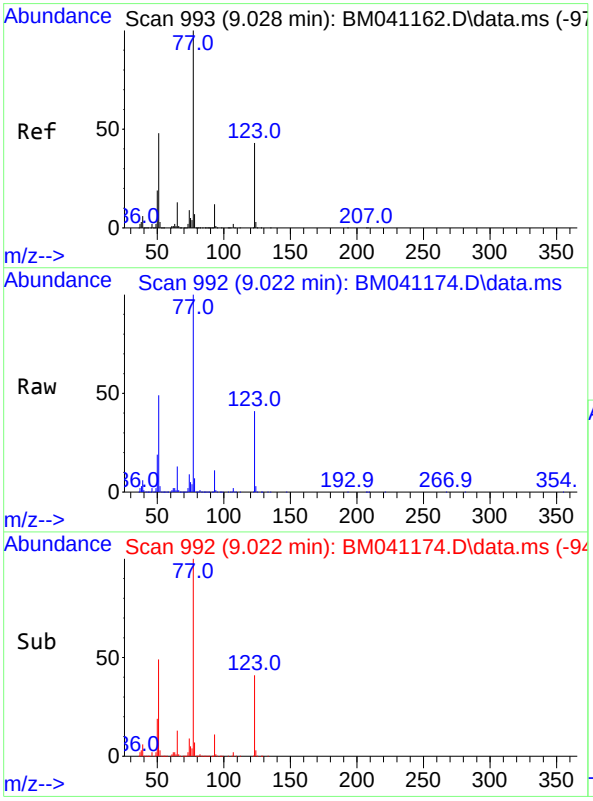
Tgt Ion: 82 Resp: 98622

Ion	Ratio	Lower	Upper
82	100		
128	40.3	31.8	47.6
54	49.2	40.1	60.1



Instrument :
BNA_M
ClientSampleId :
SB-04-(1-5)MS

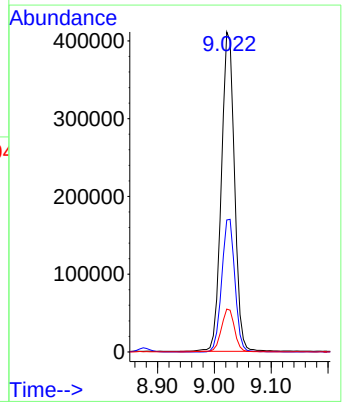
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

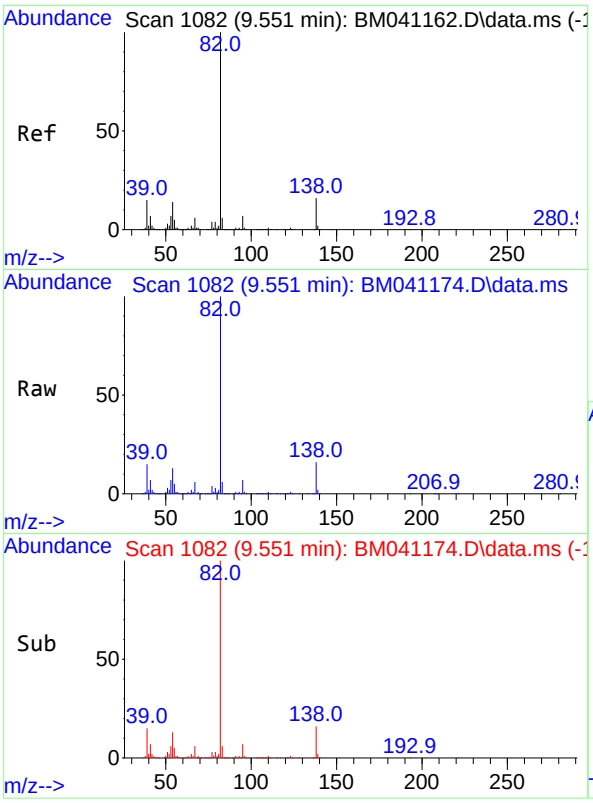


#24
Nitrobenzene
Concen: 42.581 ng
RT: 9.022 min Scan# 992
Delta R.T. -0.006 min
Lab File: BM041174.D
Acq: 28 Jul 2023 20:22

Tgt Ion: 77 Resp: 662703

Ion	Ratio	Lower	Upper
77	100		
123	41.2	34.2	51.2
65	13.4	10.7	16.1

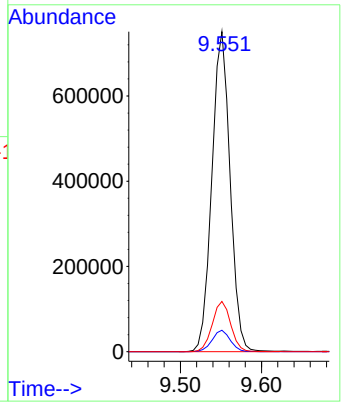




#25
Isophorone
Concen: 44.789 ng
RT: 9.551 min Scan# 1
Delta R.T. -0.000 min
Lab File: BM041174.D
Acq: 28 Jul 2023 20:22

Tgt Ion: 82 Resp: 117008

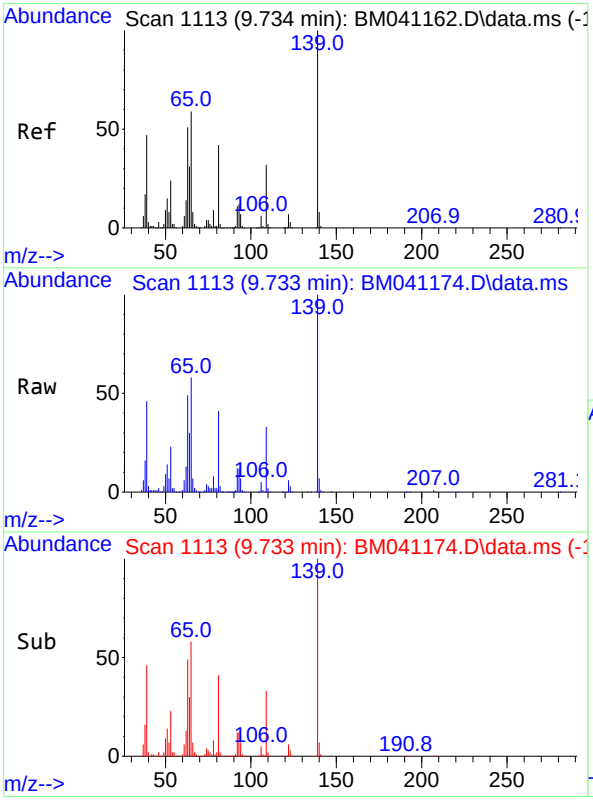
Ion	Ratio	Lower	Upper
82	100		
95	6.7	5.3	7.9
138	15.7	12.8	19.2



Instrument :
BNA_M
ClientSampleId :
SB-04-(1-5)MS

Manual Integrations
APPROVED

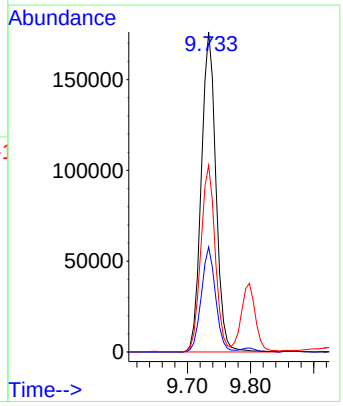
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

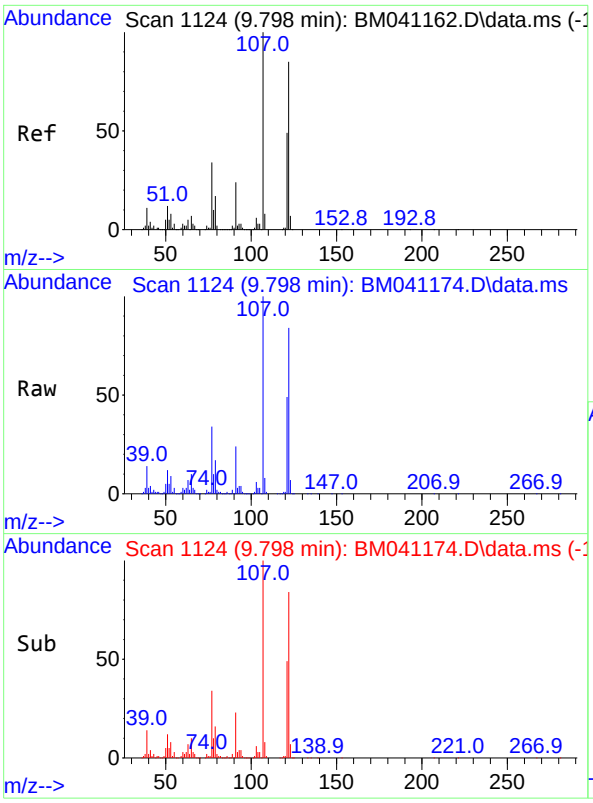


#26
2-Nitrophenol
Concen: 46.472 ng
RT: 9.733 min Scan# 1113
Delta R.T. -0.000 min
Lab File: BM041174.D
Acq: 28 Jul 2023 20:22

Tgt Ion:139 Resp: 282734

Ion	Ratio	Lower	Upper
139	100		
109	32.8	25.4	38.2
65	58.3	47.2	70.8

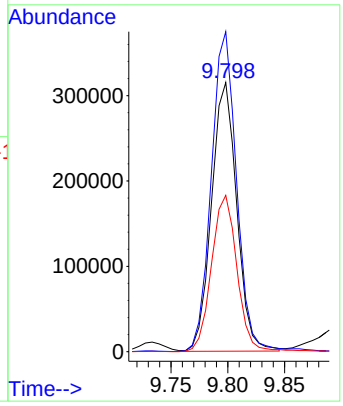




#27
2,4-Dimethylphenol
Concen: 45.470 ng
RT: 9.798 min Scan# 11
Delta R.T. -0.000 min
Lab File: BM041174.D
Acq: 28 Jul 2023 20:22

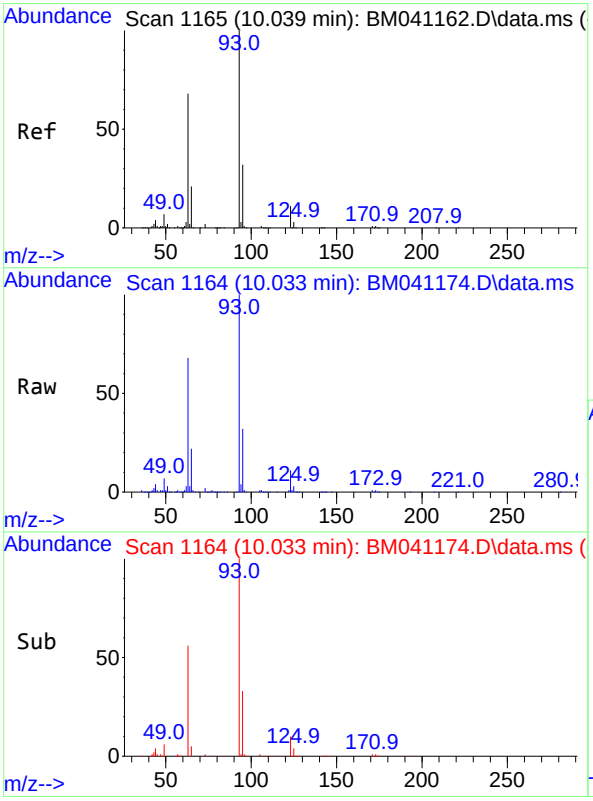
Tgt Ion:122 Resp: 48679

Ion	Ratio	Lower	Upper
122	100		
107	118.9	94.3	141.5
121	58.1	45.8	68.8



Instrument :
BNA_M
ClientSampleId :
SB-04-(1-5)MS

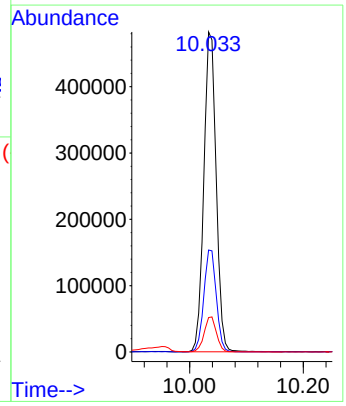
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

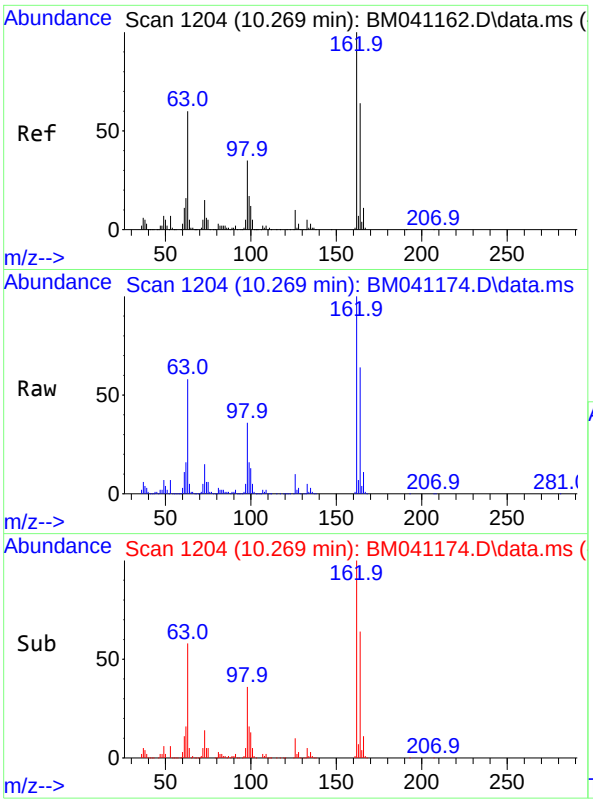


#28
bis(2-Chloroethoxy)methane
Concen: 44.429 ng
RT: 10.033 min Scan# 1164
Delta R.T. -0.006 min
Lab File: BM041174.D
Acq: 28 Jul 2023 20:22

Tgt Ion: 93 Resp: 727043

Ion	Ratio	Lower	Upper
93	100		
95	31.9	25.9	38.9
123	10.7	9.1	13.7





#29
2,4-Dichlorophenol
Concen: 46.871 ng
RT: 10.269 min Scan# 1
Delta R.T. -0.000 min
Lab File: BM041174.D
Acq: 28 Jul 2023 20:22

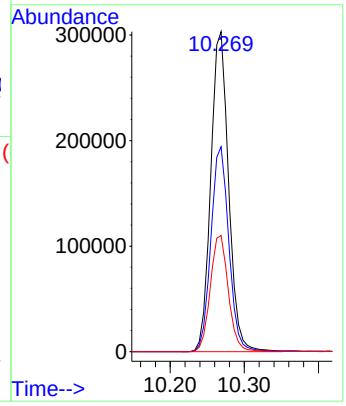
Tgt Ion:162 Resp: 50603

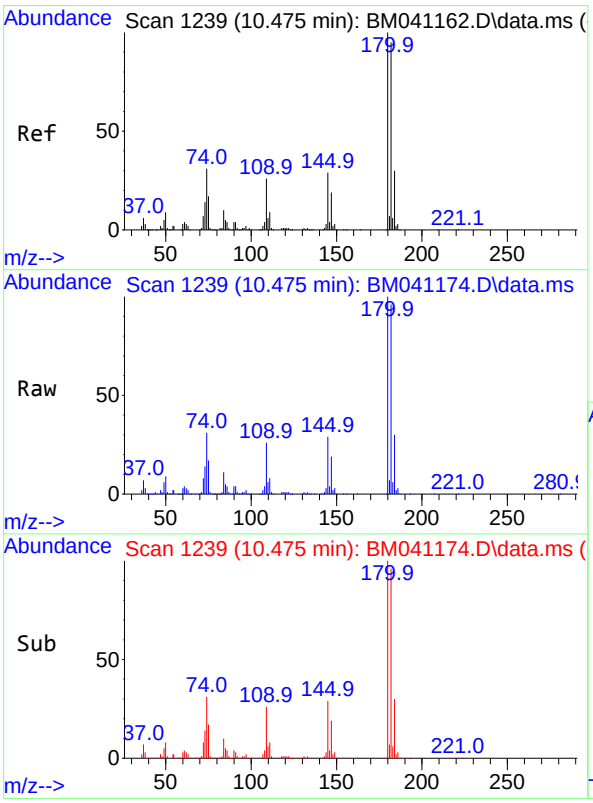
Ion	Ratio	Lower	Upper
162	100		
164	64.0	44.3	84.3
98	36.3	15.1	55.1

Instrument :
BNA_M
ClientSampleId :
SB-04-(1-5)MS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

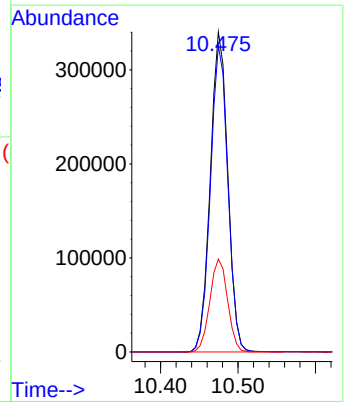


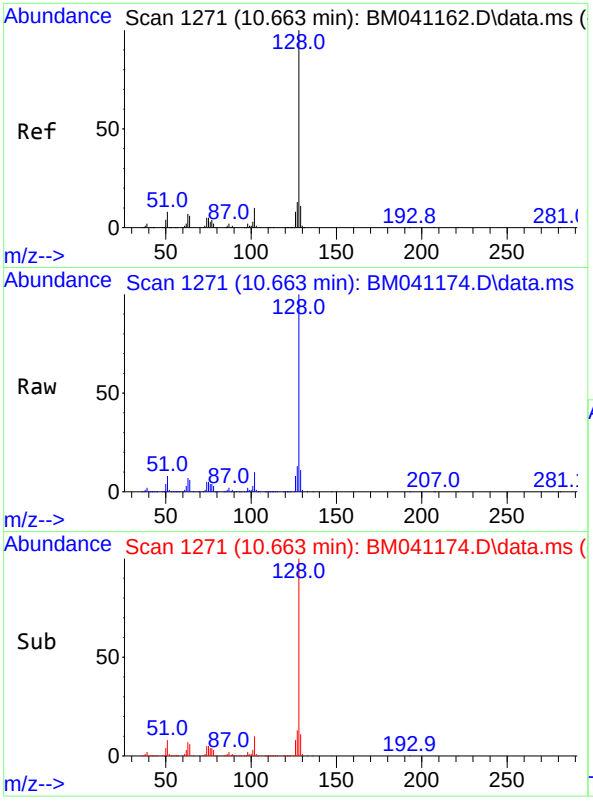


#30
1,2,4-Trichlorobenzene
Concen: 44.766 ng
RT: 10.475 min Scan# 1239
Delta R.T. -0.000 min
Lab File: BM041174.D
Acq: 28 Jul 2023 20:22

Tgt Ion:180 Resp: 533981

Ion	Ratio	Lower	Upper
180	100		
182	95.7	75.9	113.9
145	29.1	23.6	35.4

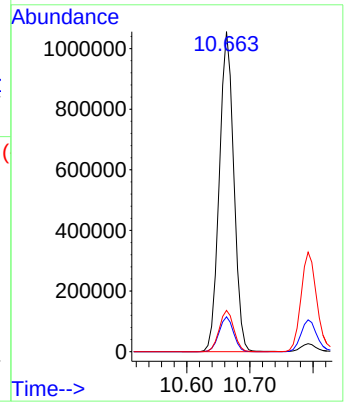




#31
Naphthalene
Concen: 43.163 ng
RT: 10.663 min Scan# 1
Delta R.T. -0.000 min
Lab File: BM041174.D
Acq: 28 Jul 2023 20:22

Tgt Ion:128 Resp: 167634

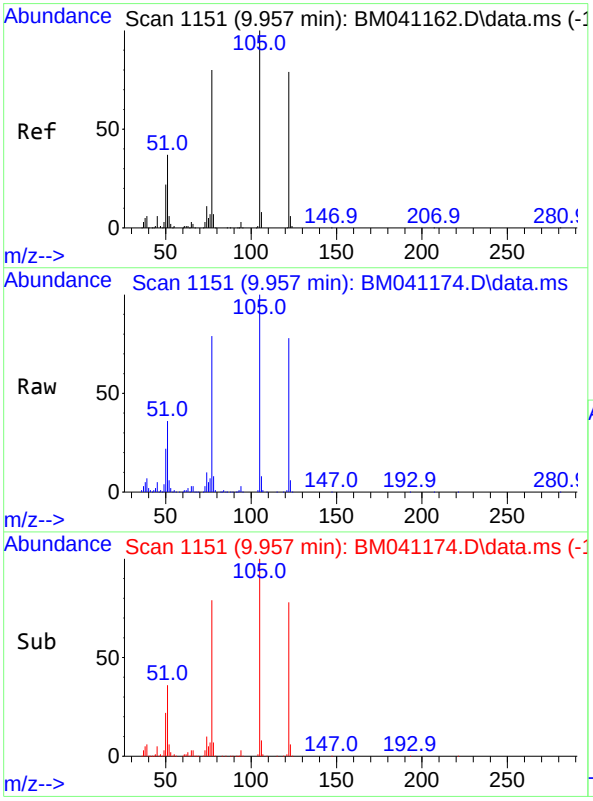
Ion	Ratio	Lower	Upper
128	100		
129	10.9	9.0	13.4
127	12.9	10.5	15.7



Instrument :
BNA_M
ClientSampleId :
SB-04-(1-5)MS

Manual Integrations
APPROVED

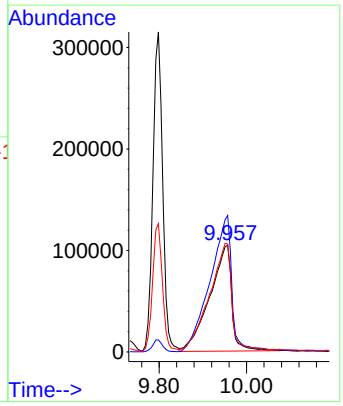
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

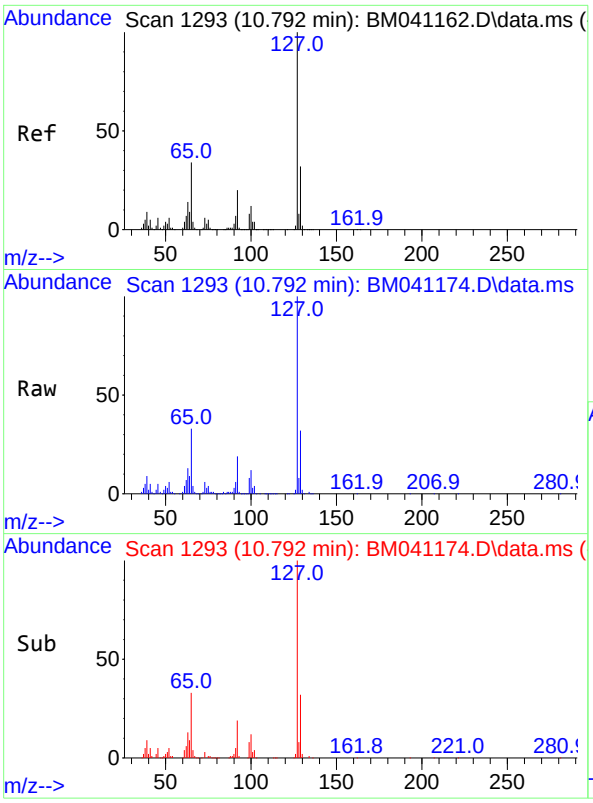


#32
Benzoic acid
Concen: 45.670 ng
RT: 9.957 min Scan# 1151
Delta R.T. -0.000 min
Lab File: BM041174.D
Acq: 28 Jul 2023 20:22

Tgt Ion:122 Resp: 363937

Ion	Ratio	Lower	Upper
122	100		
105	127.9	104.0	144.0
77	101.1	79.9	119.9

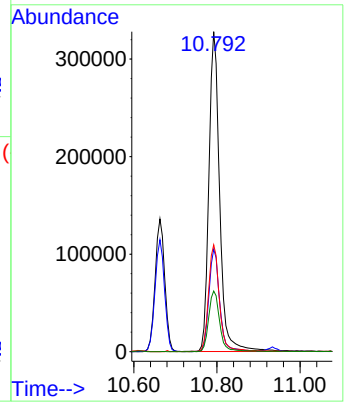




#33
4-Chloroaniline
Concen: 38.074 ng
RT: 10.792 min Scan# 1
Delta R.T. -0.000 min
Lab File: BM041174.D
Acq: 28 Jul 2023 20:22

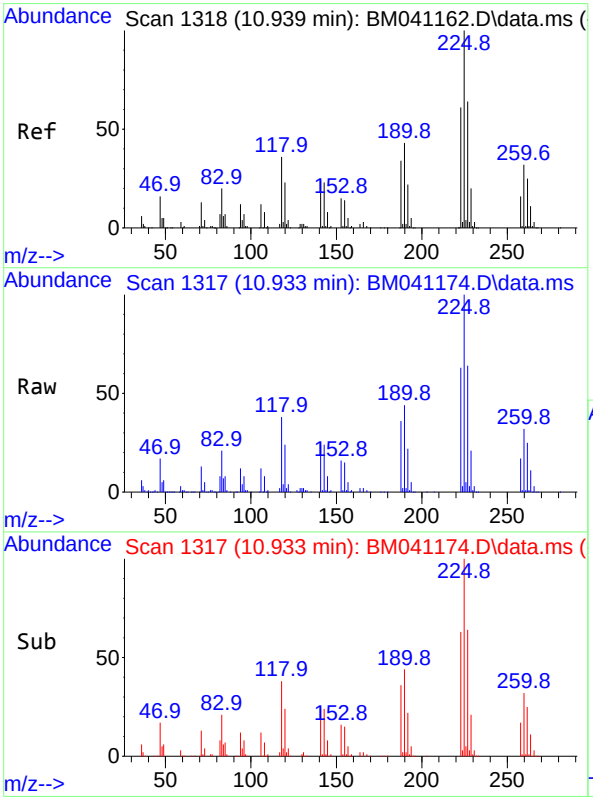
Tgt Ion:127 Resp: 59093

Ion	Ratio	Lower	Upper
127	100		
129	32.1	25.9	38.9
65	33.4	26.9	40.3
92	19.0	15.8	23.6



Instrument :
BNA_M
ClientSampleId :
SB-04-(1-5)MS

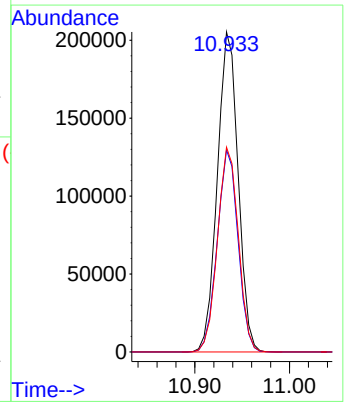
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

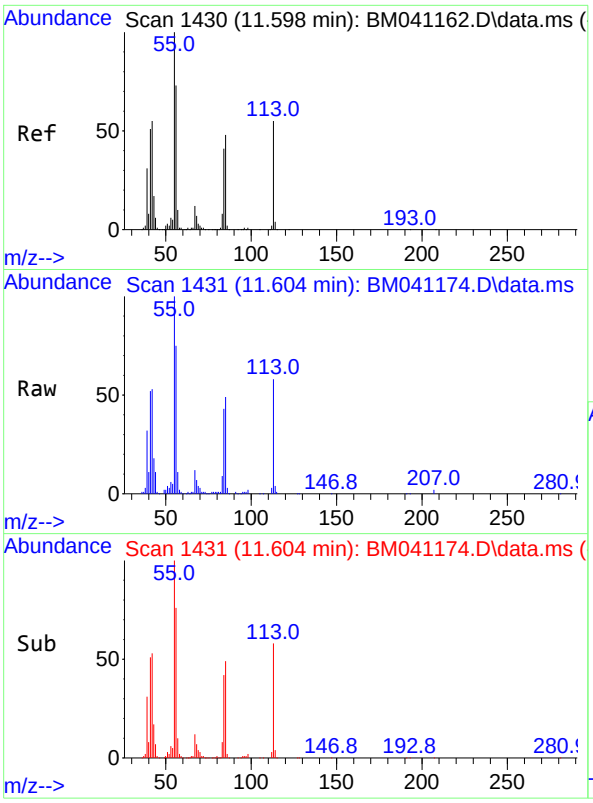


#34
Hexachlorobutadiene
Concen: 43.679 ng
RT: 10.933 min Scan# 1317
Delta R.T. -0.006 min
Lab File: BM041174.D
Acq: 28 Jul 2023 20:22

Tgt Ion:225 Resp: 313357

Ion	Ratio	Lower	Upper
225	100		
223	63.2	49.0	73.4
227	64.0	50.8	76.2

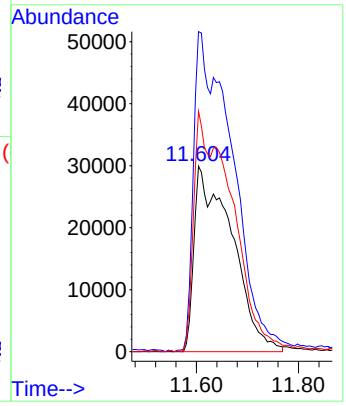




#35
Caprolactam
Concen: 49.134 ng m
RT: 11.604 min Scan# 14
Delta R.T. 0.006 min
Lab File: BM041174.D
Acq: 28 Jul 2023 20:22

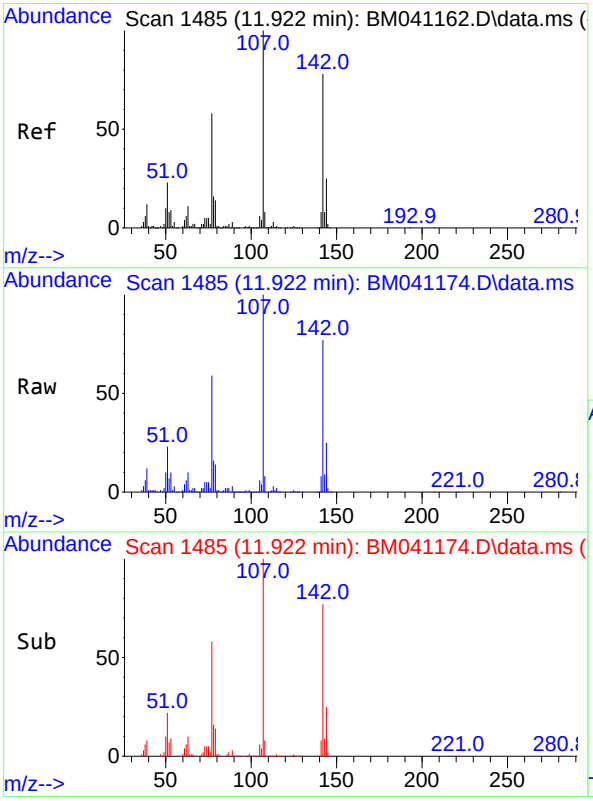
Tgt Ion:113 Resp: 15345

Ion	Ratio	Lower	Upper
113	100		
55	172.5	162.5	202.5
56	129.6	114.1	154.1



Instrument :
BNA_M
ClientSampleId :
SB-04-(1-5)MS

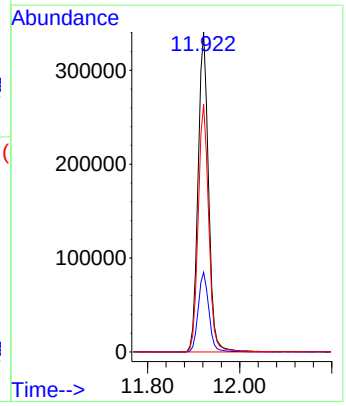
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

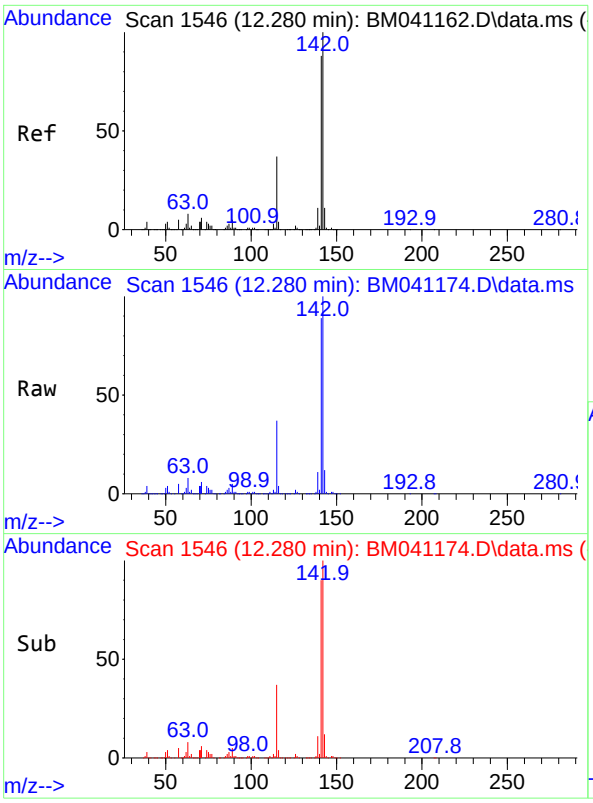


#36
4-Chloro-3-methylphenol
Concen: 47.226 ng
RT: 11.922 min Scan# 1485
Delta R.T. -0.000 min
Lab File: BM041174.D
Acq: 28 Jul 2023 20:22

Tgt Ion:107 Resp: 536644

Ion	Ratio	Lower	Upper
107	100		
144	24.9	20.1	30.1
142	77.4	62.2	93.4

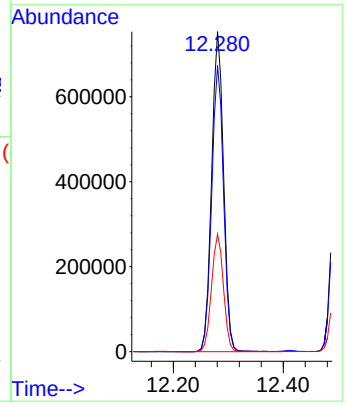




#37
2-Methylnaphthalene
Concen: 43.236 ng
RT: 12.280 min Scan# 1
Delta R.T. -0.000 min
Lab File: BM041174.D
Acq: 28 Jul 2023 20:22

Tgt Ion:142 Resp: 113207

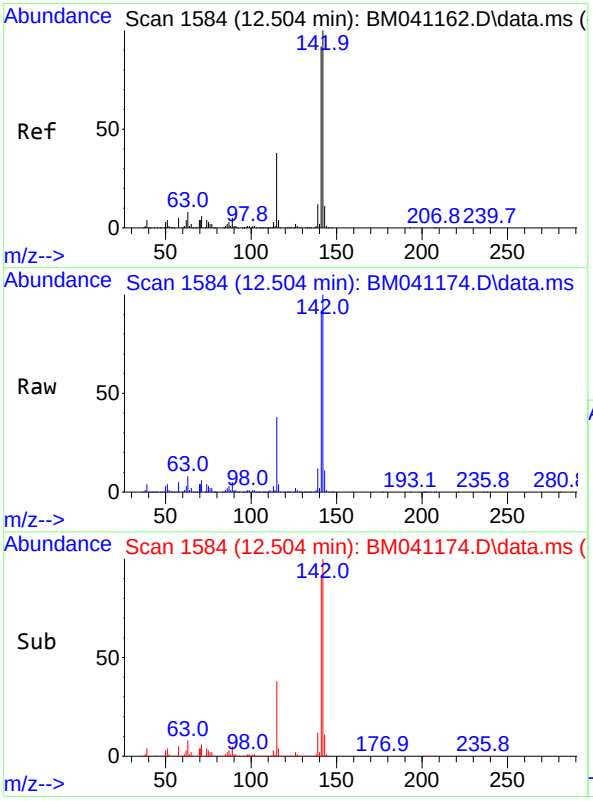
Ion	Ratio	Lower	Upper
142	100		
141	89.4	70.7	106.1
115	36.8	29.3	43.9



Instrument :
BNA_M
ClientSampleId :
SB-04-(1-5)MS

Manual Integrations
APPROVED

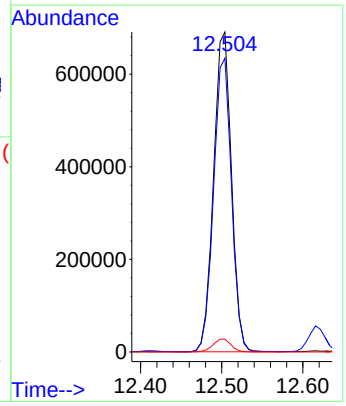
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

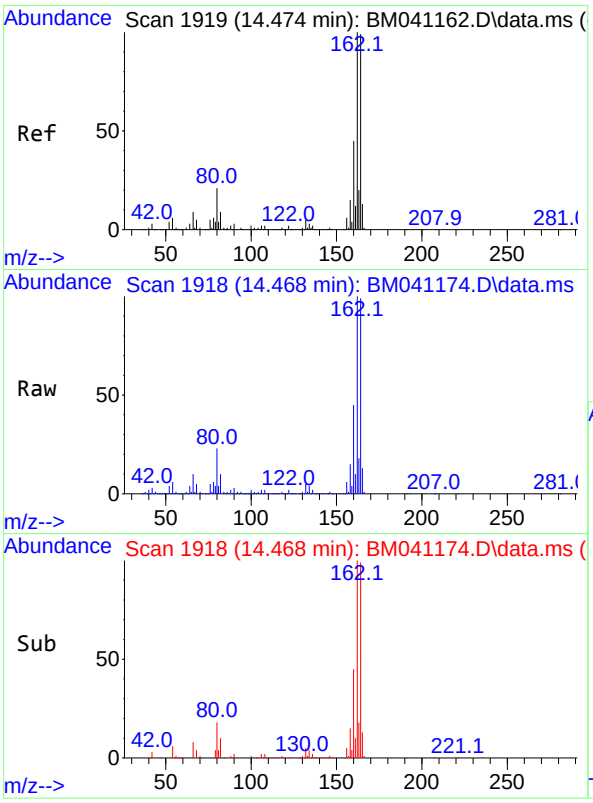


#38
1-Methylnaphthalene
Concen: 43.118 ng
RT: 12.504 min Scan# 1584
Delta R.T. -0.000 min
Lab File: BM041174.D
Acq: 28 Jul 2023 20:22

Tgt Ion:142 Resp: 1056646

Ion	Ratio	Lower	Upper
142	100		
141	91.8	73.4	110.2
116	4.0	3.2	4.8

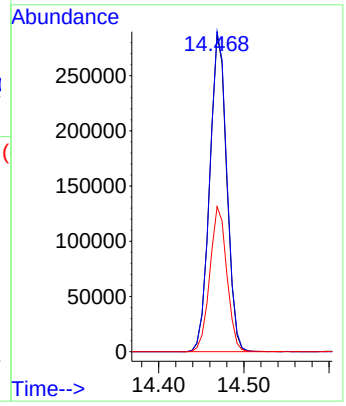




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.468 min Scan# 1
Delta R.T. -0.006 min
Lab File: BM041174.D
Acq: 28 Jul 2023 20:22

Tgt Ion:164 Resp: 39807

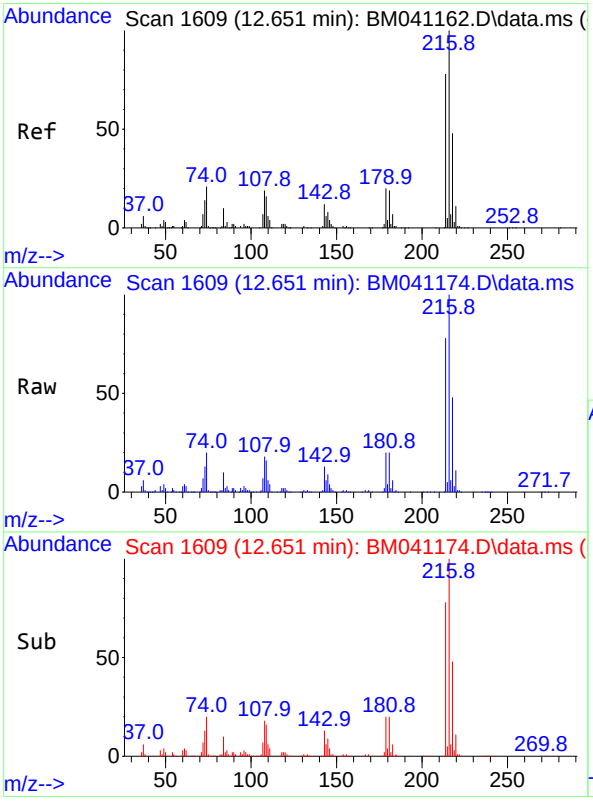
Ion	Ratio	Lower	Upper
164	100		
162	101.0	80.4	120.6
160	45.8	36.2	54.2



Instrument :
BNA_M
ClientSampleId :
SB-04-(1-5)MS

Manual Integrations
APPROVED

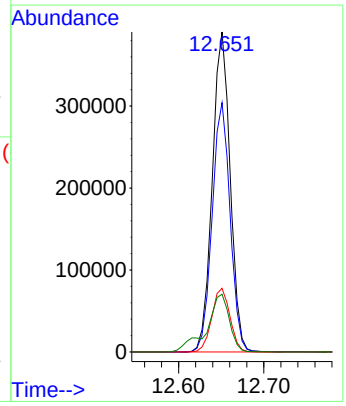
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

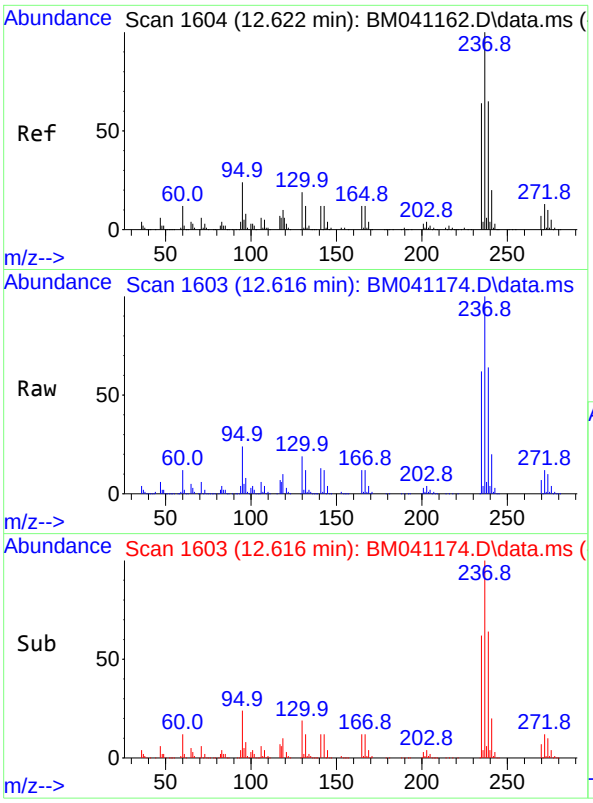


#40
1,2,4,5-Tetrachlorobenzene
Concen: 44.067 ng
RT: 12.651 min Scan# 1609
Delta R.T. -0.000 min
Lab File: BM041174.D
Acq: 28 Jul 2023 20:22

Tgt Ion:216 Resp: 569598

Ion	Ratio	Lower	Upper
216	100		
214	78.4	63.2	94.8
179	20.2	16.2	24.2
108	22.9	17.0	25.4

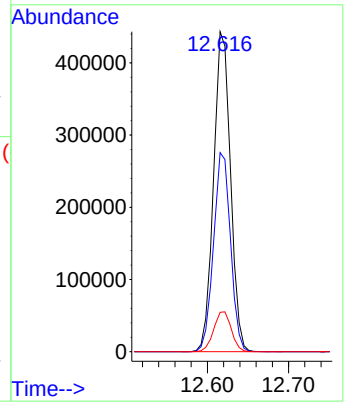




#41
Hexachlorocyclopentadiene
Concen: 93.686 ng
RT: 12.616 min Scan# 1
Delta R.T. -0.006 min
Lab File: BM041174.D
Acq: 28 Jul 2023 20:22

Tgt Ion:237 Resp: 64066

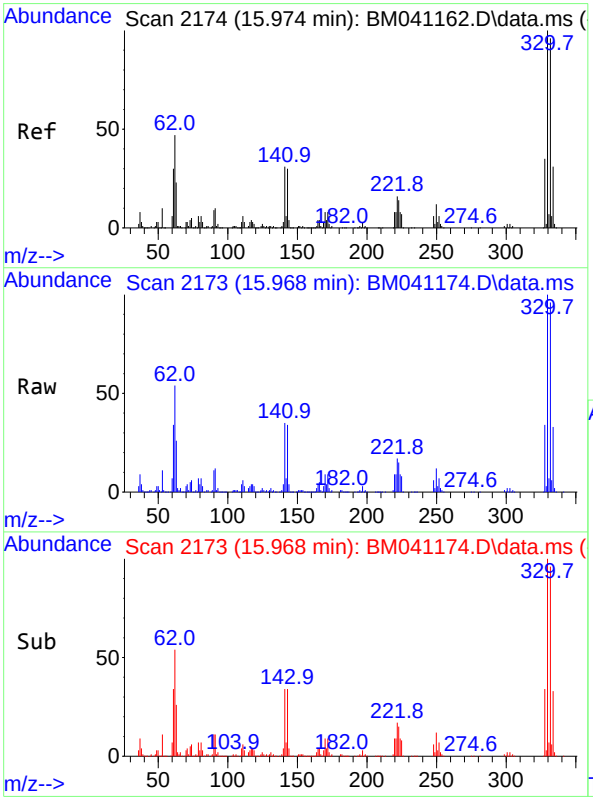
Ion	Ratio	Lower	Upper
237	100		
235	62.2	43.6	83.6
272	12.3	0.0	33.3



Instrument :
BNA_M
ClientSampleId :
SB-04-(1-5)MS

Manual Integrations
APPROVED

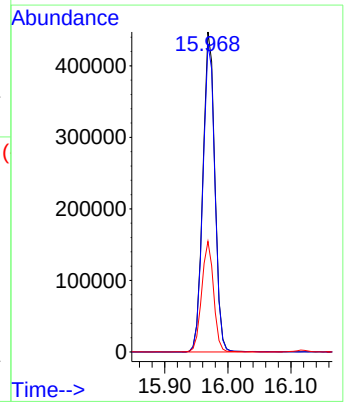
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

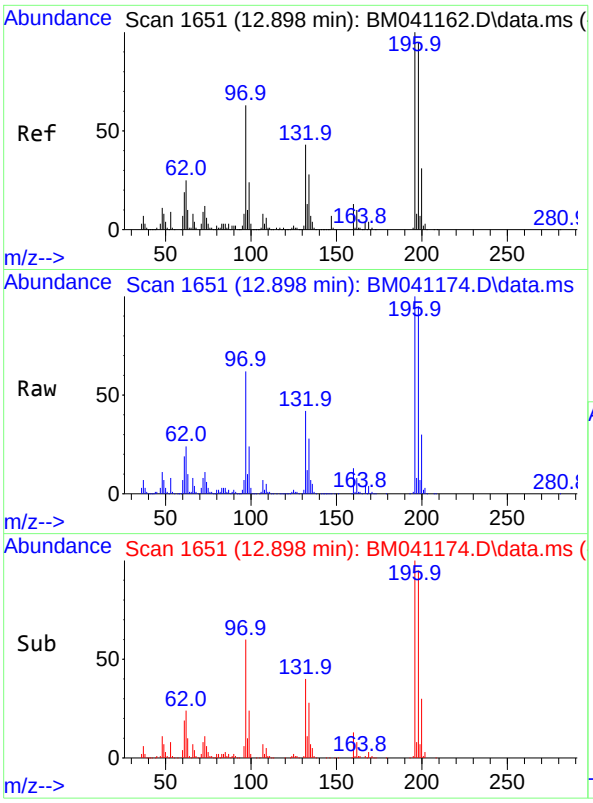


#42
2,4,6-Tribromophenol
Concen: 104.317 ng
RT: 15.968 min Scan# 2173
Delta R.T. -0.006 min
Lab File: BM041174.D
Acq: 28 Jul 2023 20:22

Tgt Ion:330 Resp: 587357

Ion	Ratio	Lower	Upper
330	100		
332	96.8	77.7	116.5
141	34.4	28.3	42.5

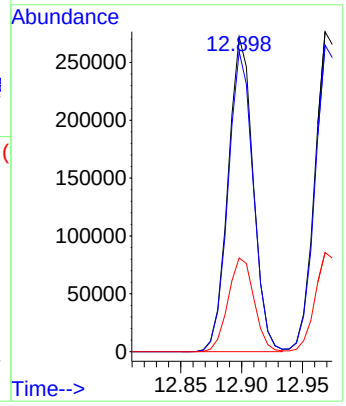




#43
2,4,6-Trichlorophenol
Concen: 47.043 ng
RT: 12.898 min Scan# 1
Delta R.T. -0.000 min
Lab File: BM041174.D
Acq: 28 Jul 2023 20:22

Tgt Ion:196 Resp: 38973

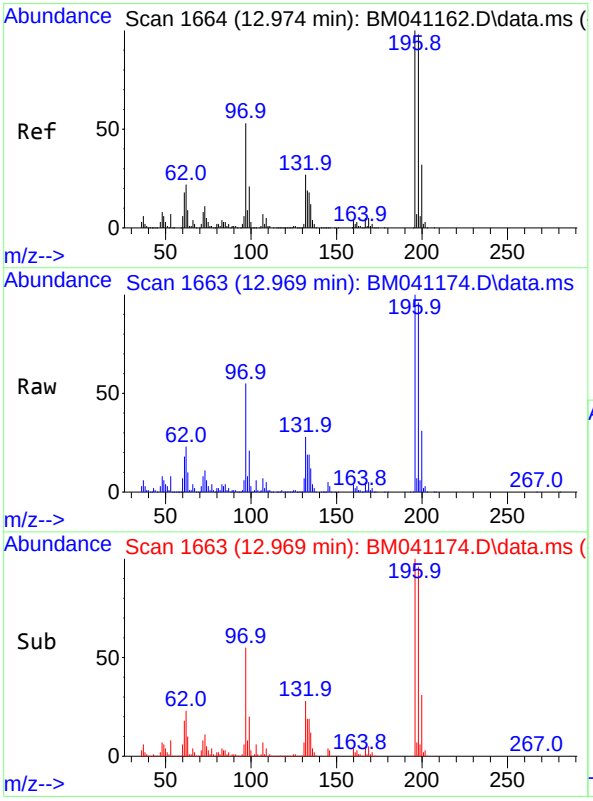
Ion	Ratio	Lower	Upper
196	100		
198	95.3	76.2	114.4
200	29.8	24.6	36.8



Instrument :
BNA_M
ClientSampleId :
SB-04-(1-5)MS

Manual Integrations
APPROVED

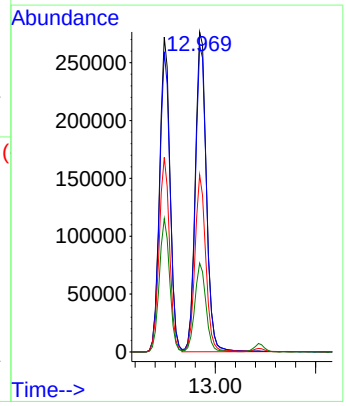
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

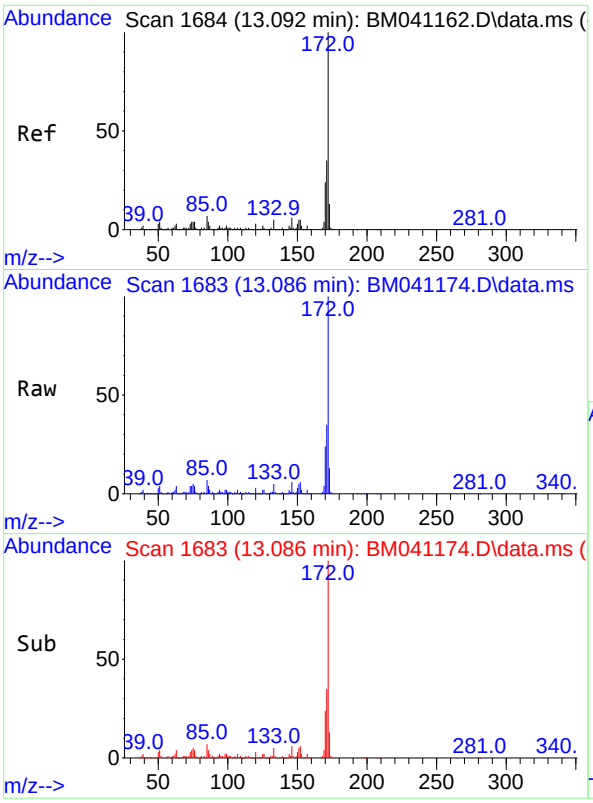


#44
2,4,5-Trichlorophenol
Concen: 44.316 ng
RT: 12.969 min Scan# 1663
Delta R.T. -0.005 min
Lab File: BM041174.D
Acq: 28 Jul 2023 20:22

Tgt Ion:196 Resp: 424941

Ion	Ratio	Lower	Upper
196	100		
198	95.8	78.2	117.4
97	55.3	42.7	64.1
132	27.8	21.6	32.4

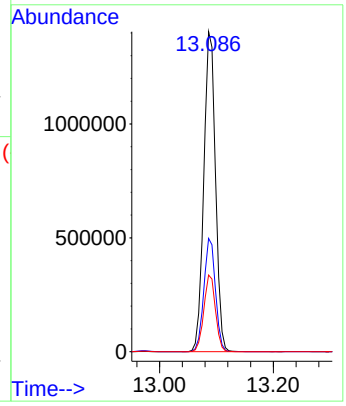




#45
2-Fluorobiphenyl
Concen: 63.732 ng
RT: 13.086 min Scan# 1
Delta R.T. -0.006 min
Lab File: BM041174.D
Acq: 28 Jul 2023 20:22

Tgt Ion:172 Resp: 200830

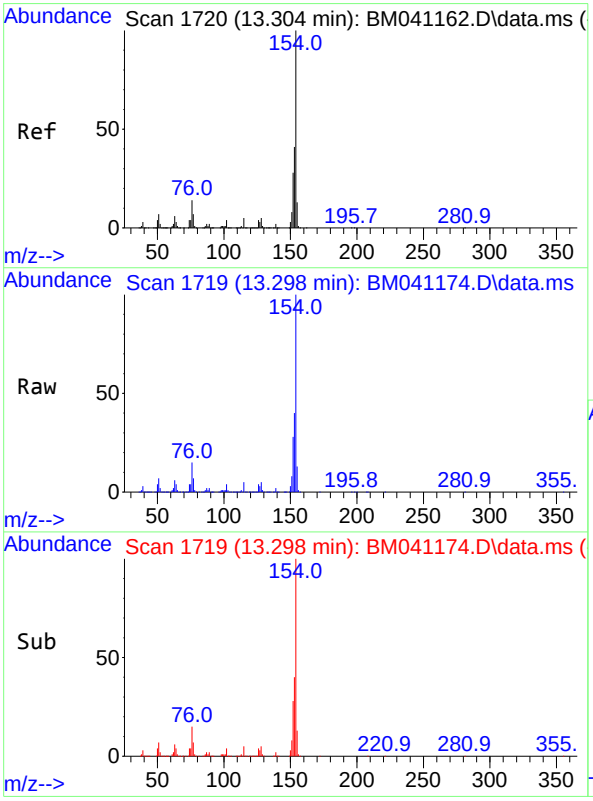
Ion	Ratio	Lower	Upper
172	100		
171	35.4	28.1	42.1
170	24.0	18.9	28.3



Instrument :
BNA_M
ClientSampleId :
SB-04-(1-5)MS

Manual Integrations
APPROVED

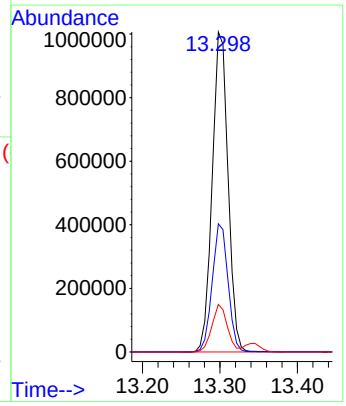
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

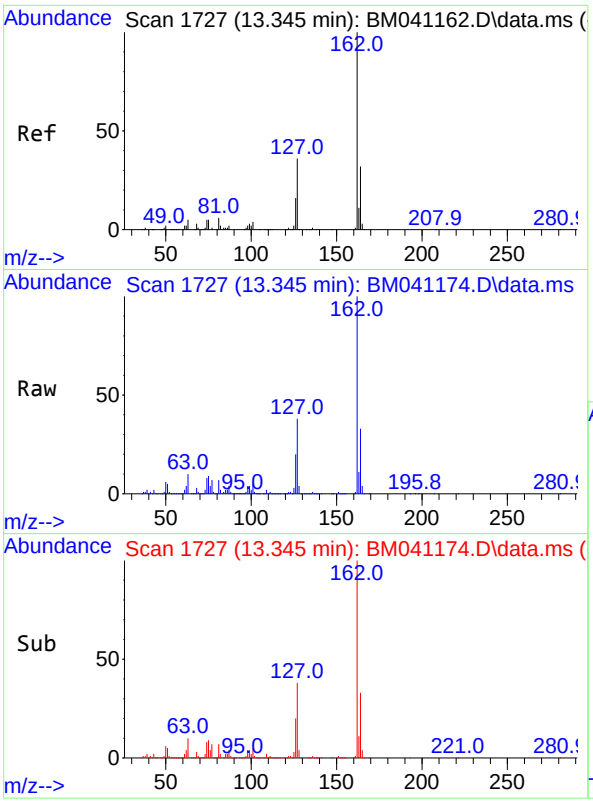


#46
1,1'-Biphenyl
Concen: 44.140 ng
RT: 13.298 min Scan# 1719
Delta R.T. -0.006 min
Lab File: BM041174.D
Acq: 28 Jul 2023 20:22

Tgt Ion:154 Resp: 1424448

Ion	Ratio	Lower	Upper
154	100		
153	40.0	20.5	60.5
76	14.9	0.0	34.1

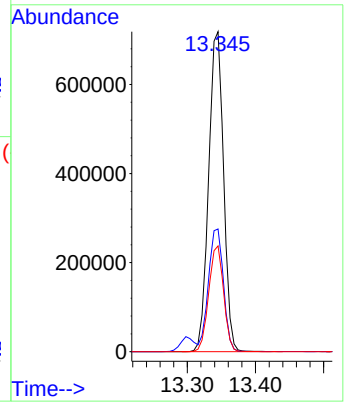




#47
2-Chloronaphthalene
Concen: 45.384 ng
RT: 13.345 min Scan# 1
Delta R.T. -0.000 min
Lab File: BM041174.D
Acq: 28 Jul 2023 20:22

Tgt Ion:162 Resp: 109356

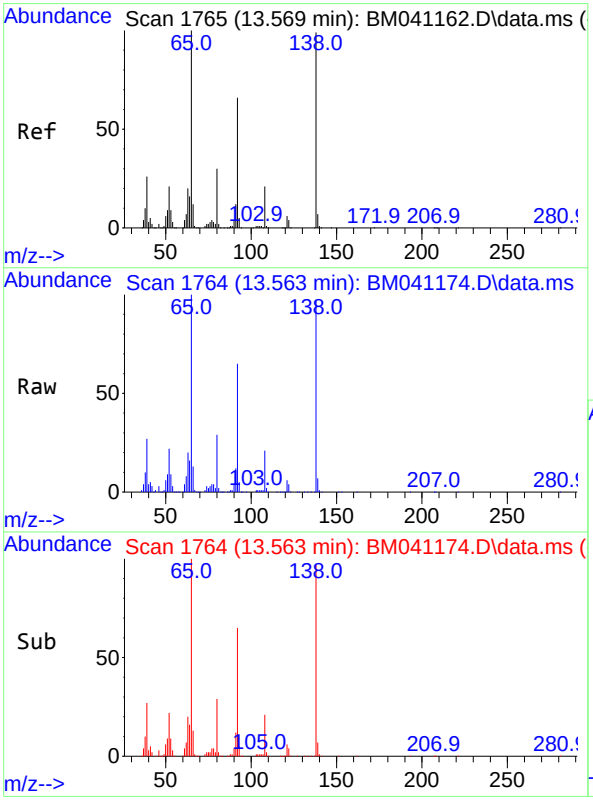
Ion	Ratio	Lower	Upper
162	100		
127	38.4	30.6	45.8
164	33.1	25.6	38.4



Instrument :
BNA_M
ClientSampleId :
SB-04-(1-5)MS

Manual Integrations
APPROVED

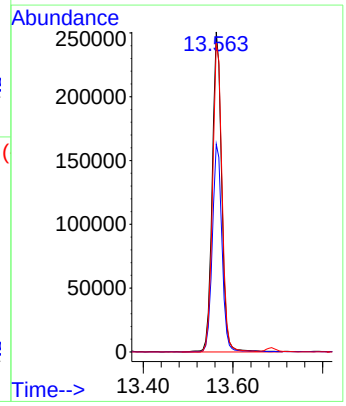
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

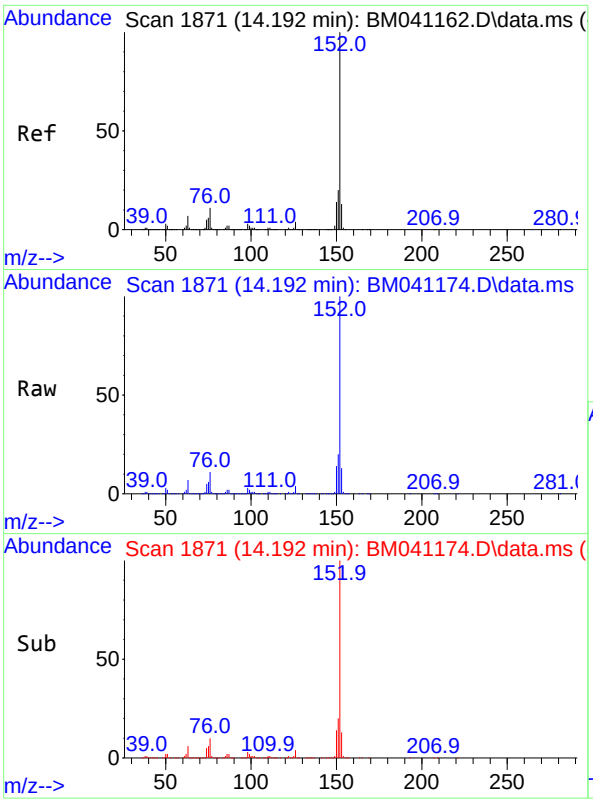


#48
2-Nitroaniline
Concen: 47.696 ng
RT: 13.563 min Scan# 1764
Delta R.T. -0.006 min
Lab File: BM041174.D
Acq: 28 Jul 2023 20:22

Tgt Ion: 65 Resp: 366853

Ion	Ratio	Lower	Upper
65	100		
92	65.0	53.0	79.4
138	96.6	79.1	118.7

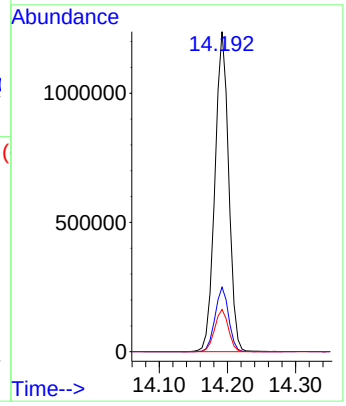




#49
Acenaphthylene
Concen: 44.686 ng
RT: 14.192 min Scan# 1
Delta R.T. -0.000 min
Lab File: BM041174.D
Acq: 28 Jul 2023 20:22

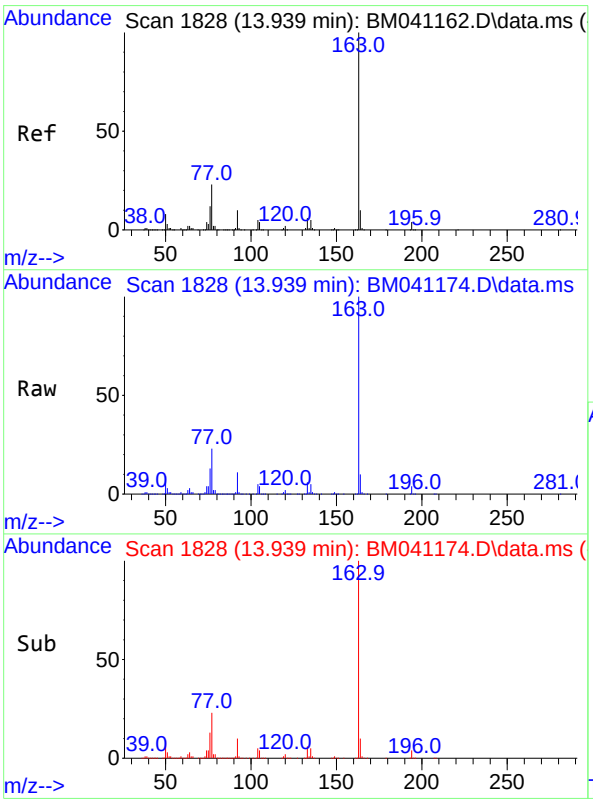
Tgt Ion:152 Resp: 173795

Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.1	24.1
153	13.2	10.5	15.7



Instrument :
BNA_M
ClientSampleId :
SB-04-(1-5)MS

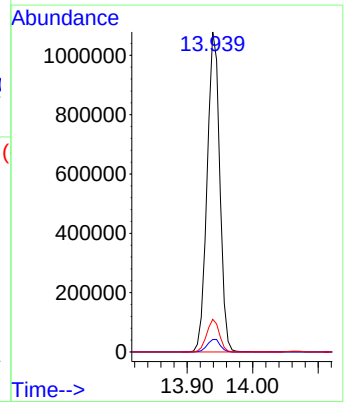
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

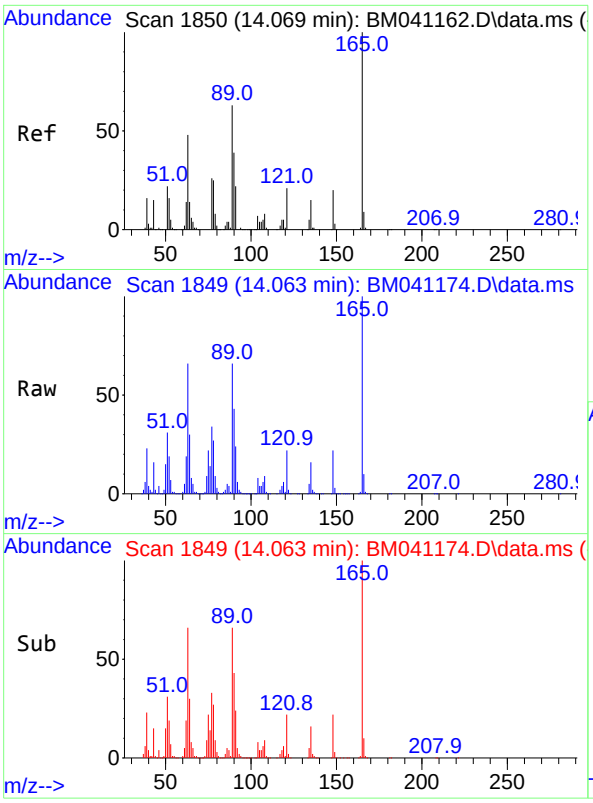


#50
Dimethylphthalate
Concen: 48.385 ng
RT: 13.939 min Scan# 1828
Delta R.T. 0.000 min
Lab File: BM041174.D
Acq: 28 Jul 2023 20:22

Tgt Ion:163 Resp: 1448831

Ion	Ratio	Lower	Upper
163	100		
194	3.9	3.3	4.9
164	10.2	8.3	12.5





#51
2,6-Dinitrotoluene
Concen: 45.951 ng
RT: 14.063 min Scan# 1
Delta R.T. -0.006 min
Lab File: BM041174.D
Acq: 28 Jul 2023 20:22

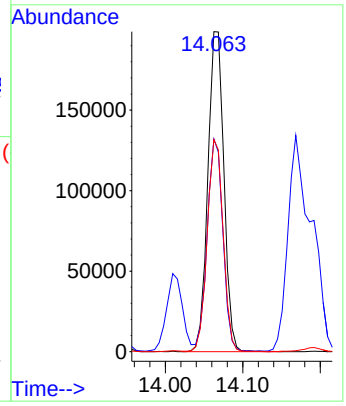
Tgt Ion:165 Resp: 28509

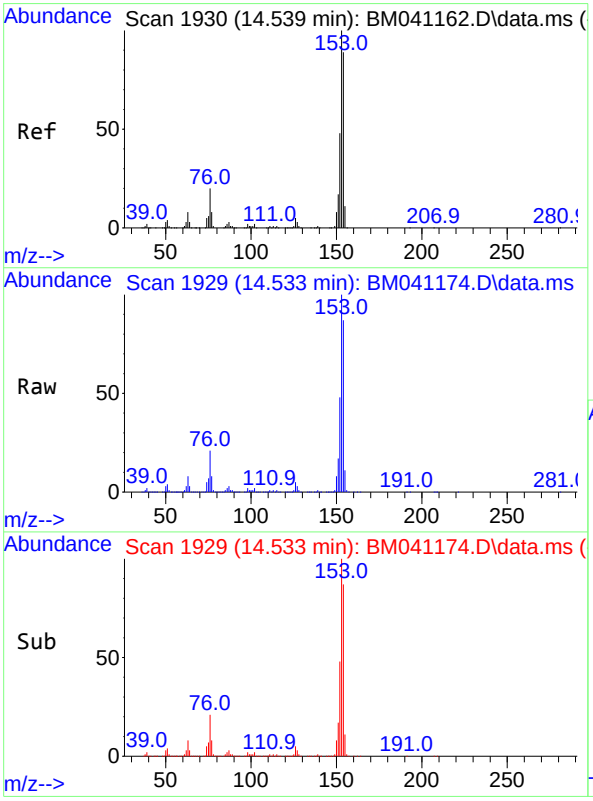
Ion	Ratio	Lower	Upper
165	100		
63	66.5	50.9	76.3
89	66.3	50.6	76.0

Instrument :
BNA_M
ClientSampleId :
SB-04-(1-5)MS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

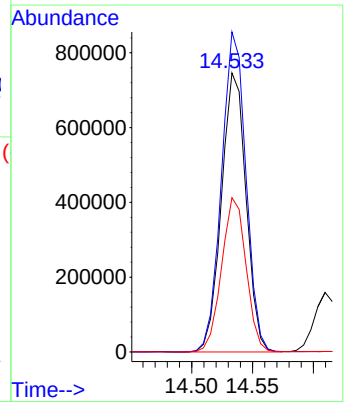


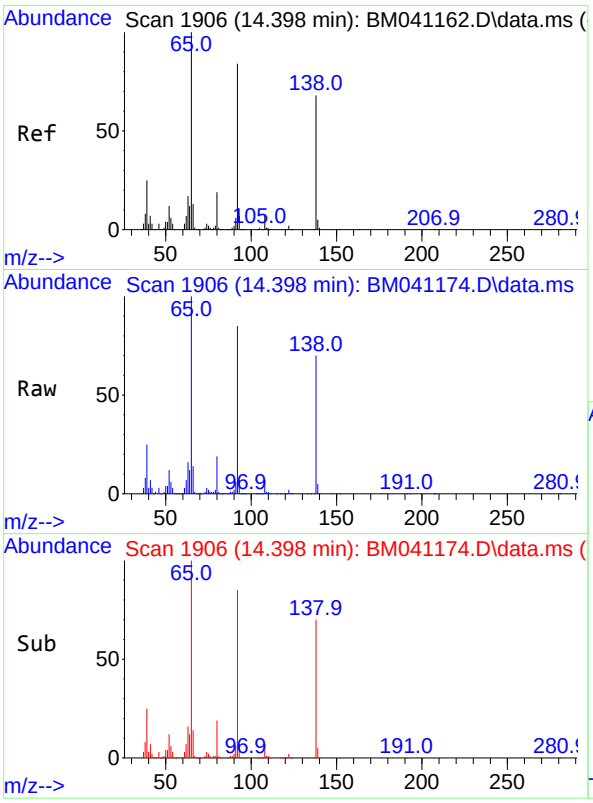


#52
Acenaphthene
Concen: 44.760 ng
RT: 14.533 min Scan# 1929
Delta R.T. -0.006 min
Lab File: BM041174.D
Acq: 28 Jul 2023 20:22

Tgt Ion:154 Resp: 1048736

Ion	Ratio	Lower	Upper
154	100		
153	114.7	90.2	135.4
152	55.3	43.4	65.0





#53
3-Nitroaniline
Concen: 41.331 ng
RT: 14.398 min Scan# 1
Delta R.T. -0.000 min
Lab File: BM041174.D
Acq: 28 Jul 2023 20:22

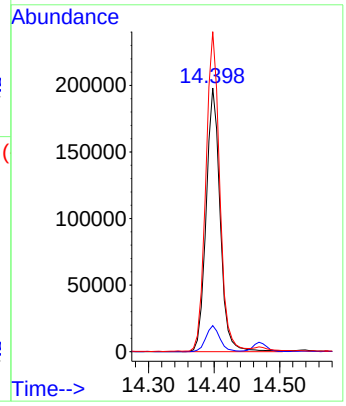
Tgt Ion:138 Resp: 29402

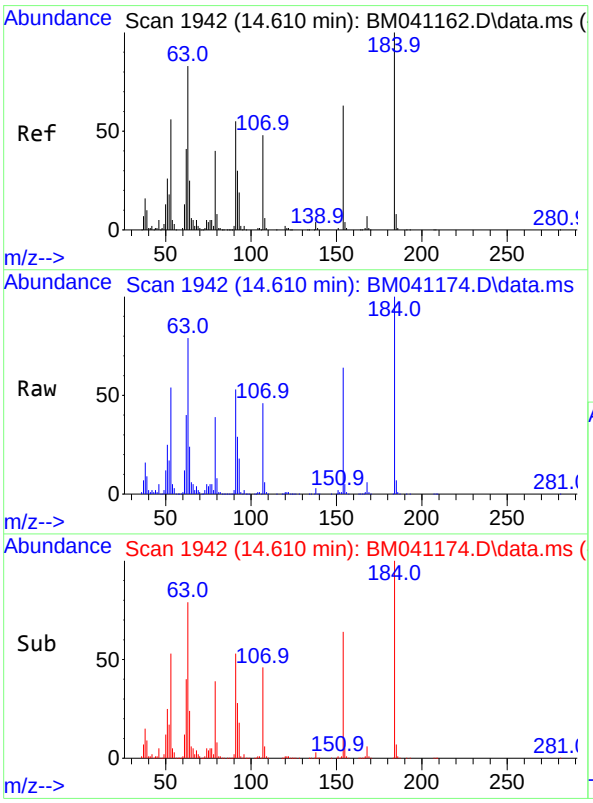
Ion	Ratio	Lower	Upper
138	100		
108	9.9	7.6	11.4
92	121.4	98.9	148.3

Instrument :
BNA_M
ClientSampleId :
SB-04-(1-5)MS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

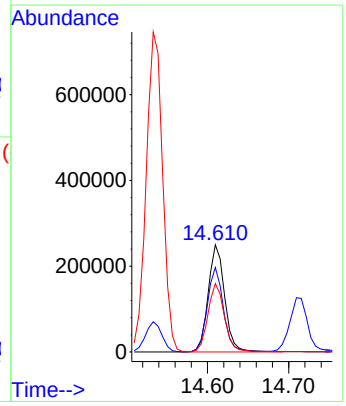


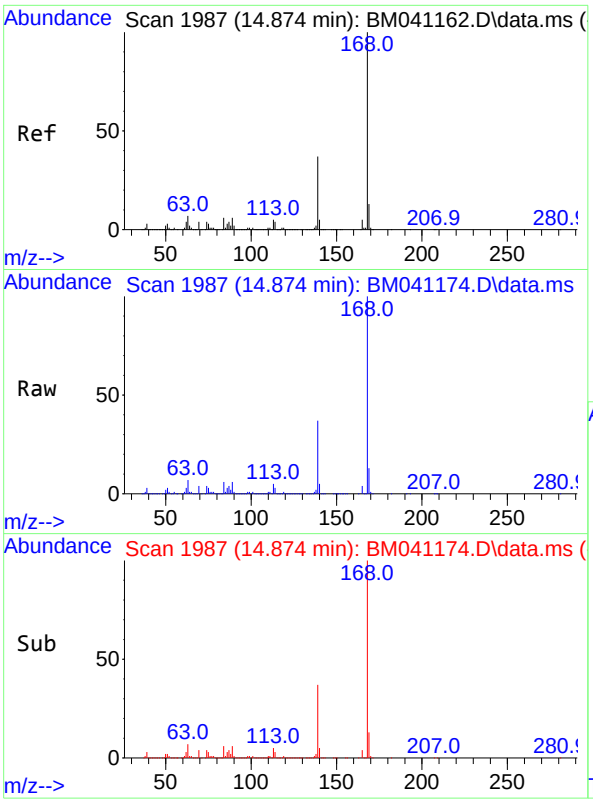


#54
2,4-Dinitrophenol
Concen: 83.258 ng
RT: 14.610 min Scan# 1942
Delta R.T. -0.000 min
Lab File: BM041174.D
Acq: 28 Jul 2023 20:22

Tgt Ion:184 Resp: 349907

Ion	Ratio	Lower	Upper
184	100		
63	78.8	66.5	99.7
154	63.7	52.8	79.2

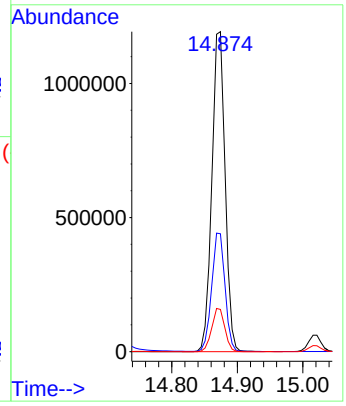




#55
Dibenzofuran
Concen: 43.911 ng
RT: 14.874 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM041174.D
Acq: 28 Jul 2023 20:22

Tgt Ion:168 Resp: 167861

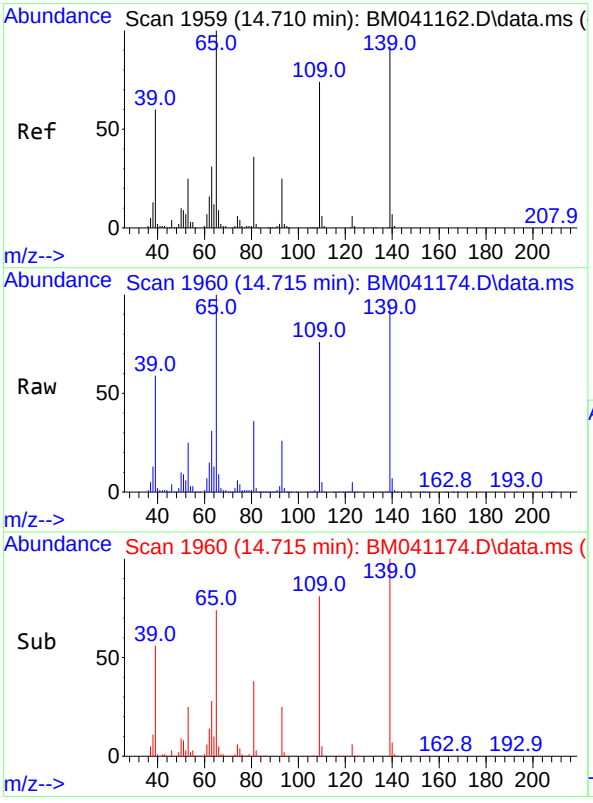
Ion	Ratio	Lower	Upper
168	100		
139	36.8	29.8	44.6
169	13.2	10.5	15.7



Instrument :
BNA_M
ClientSampleId :
SB-04-(1-5)MS

Manual Integrations
APPROVED

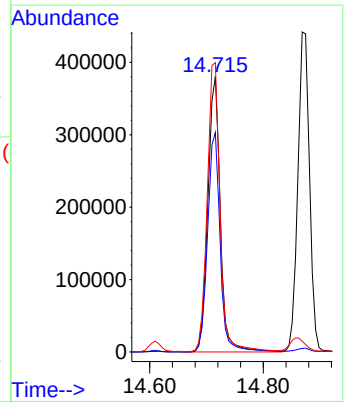
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

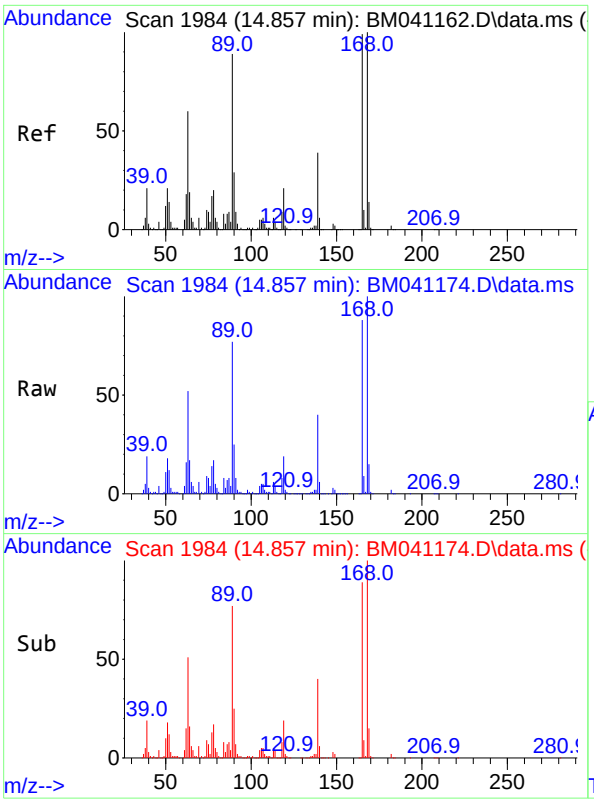


#56
4-Nitrophenol
Concen: 111.728 ng
RT: 14.715 min Scan# 1960
Delta R.T. 0.005 min
Lab File: BM041174.D
Acq: 28 Jul 2023 20:22

Tgt Ion:139 Resp: 577725

Ion	Ratio	Lower	Upper
139	100		
109	79.7	61.2	101.2
65	105.0	89.5	129.5

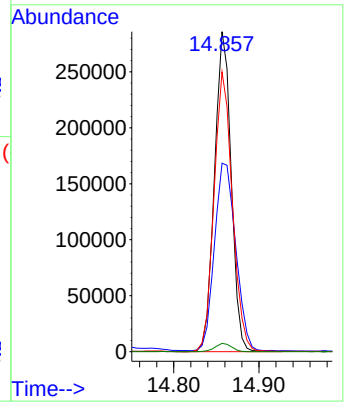




#57
2,4-Dinitrotoluene
Concen: 44.119 ng
RT: 14.857 min Scan# 1
Delta R.T. -0.000 min
Lab File: BM041174.D
Acq: 28 Jul 2023 20:22

Tgt Ion:165 Resp: 38887

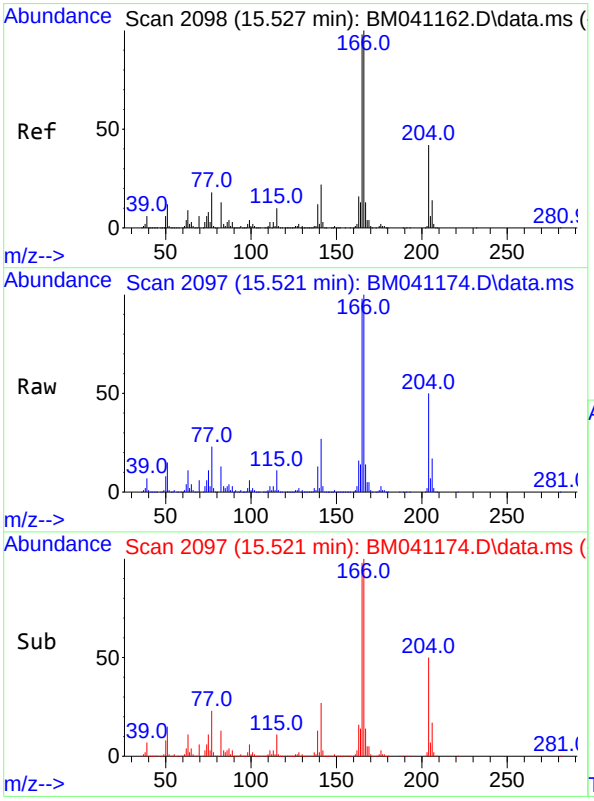
Ion	Ratio	Lower	Upper
165	100		
63	58.9	48.3	72.5
89	87.5	71.8	107.8
182	2.6	2.0	3.0



Instrument :
BNA_M
ClientSampleId :
SB-04-(1-5)MS

Manual Integrations
APPROVED

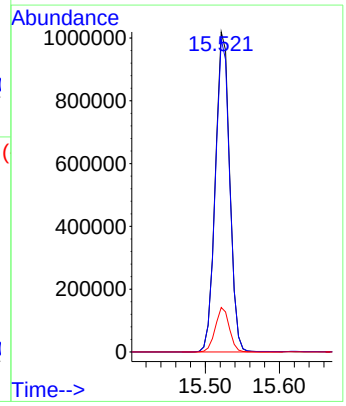
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

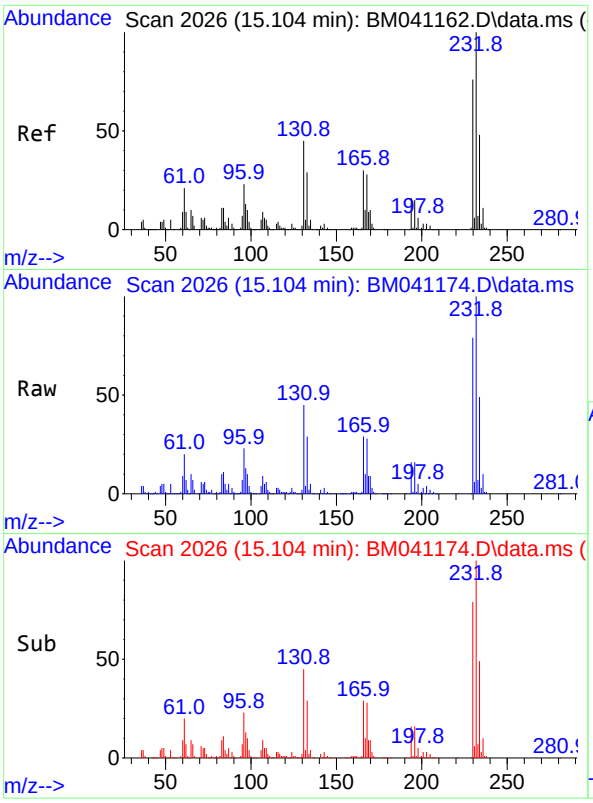


#58
Fluorene
Concen: 45.453 ng
RT: 15.521 min Scan# 2097
Delta R.T. -0.006 min
Lab File: BM041174.D
Acq: 28 Jul 2023 20:22

Tgt Ion:166 Resp: 1370718

Ion	Ratio	Lower	Upper
166	100		
165	97.7	78.2	117.4
167	13.9	10.6	16.0

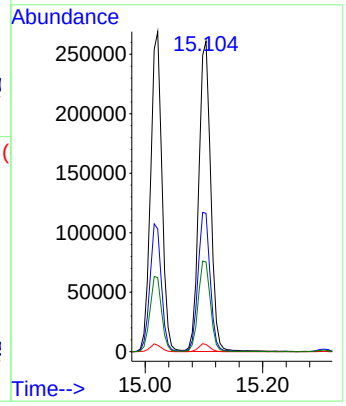




#59
2,3,4,6-Tetrachlorophenol
Concen: 47.222 ng
RT: 15.104 min Scan# 2(
Delta R.T. -0.000 min
Lab File: BM041174.D
Acq: 28 Jul 2023 20:22

Tgt Ion:232 Resp: 36666(

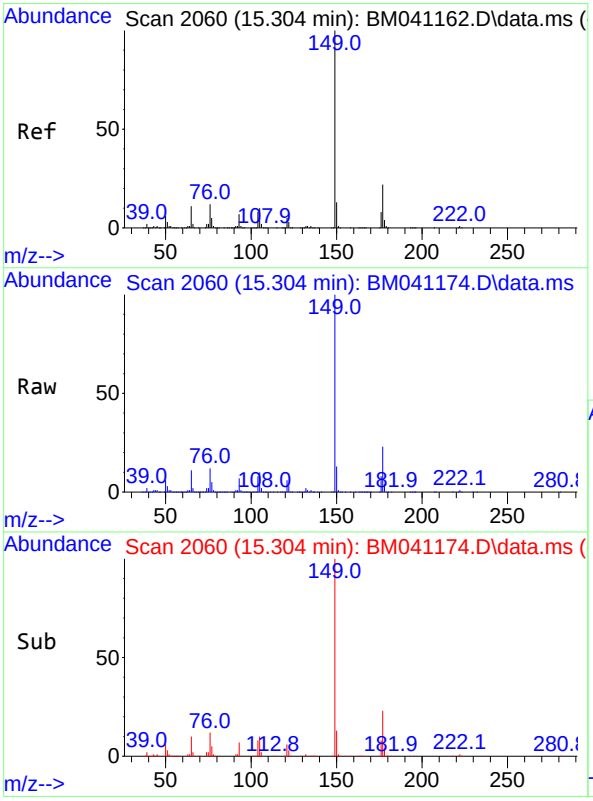
Ion	Ratio	Lower	Upper
232	100		
131	45.4	36.9	55.3
130	2.4	2.0	3.0
166	29.6	24.2	36.2



Instrument :
BNA_M
ClientSampleId :
SB-04-(1-5)MS

Manual Integrations
APPROVED

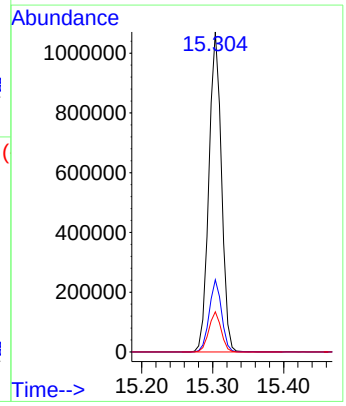
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

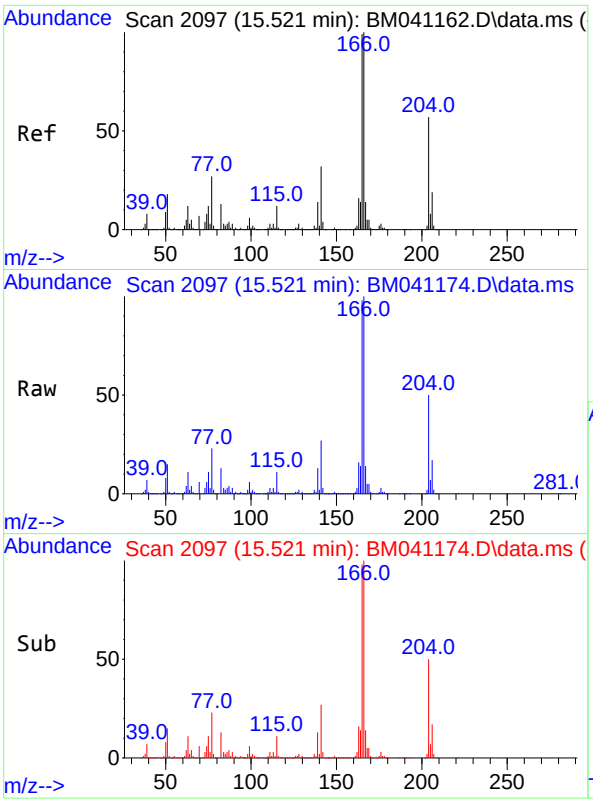


#60
Diethylphthalate
Concen: 45.531 ng
RT: 15.304 min Scan# 2060
Delta R.T. -0.000 min
Lab File: BM041174.D
Acq: 28 Jul 2023 20:22

Tgt Ion:149 Resp: 1318439

Ion	Ratio	Lower	Upper
149	100		
177	22.5	17.5	26.3
150	12.6	10.1	15.1

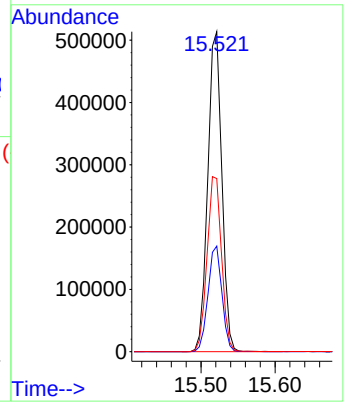




#61
4-Chlorophenyl-phenylether
Concen: 44.799 ng
RT: 15.521 min Scan# 2(
Delta R.T. -0.000 min
Lab File: BM041174.D
Acq: 28 Jul 2023 20:22

Tgt Ion:204 Resp: 676999

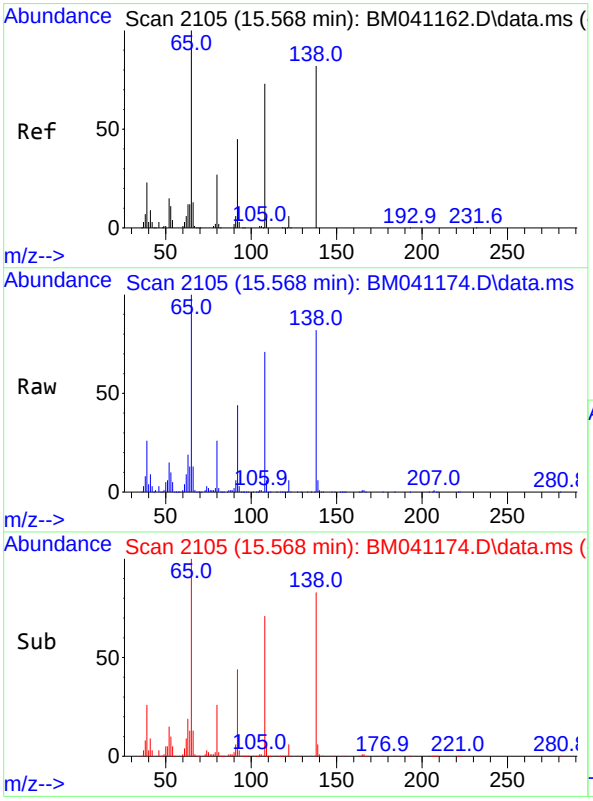
Ion	Ratio	Lower	Upper
204	100		
206	33.0	26.5	39.7
141	54.1	44.8	67.2



Instrument :
BNA_M
ClientSampleId :
SB-04-(1-5)MS

Manual Integrations
APPROVED

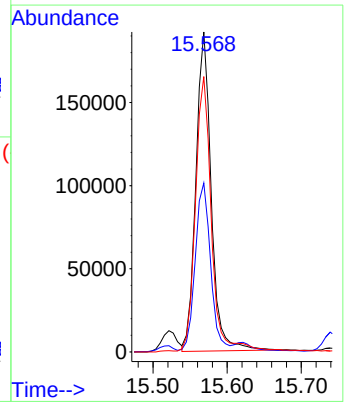
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

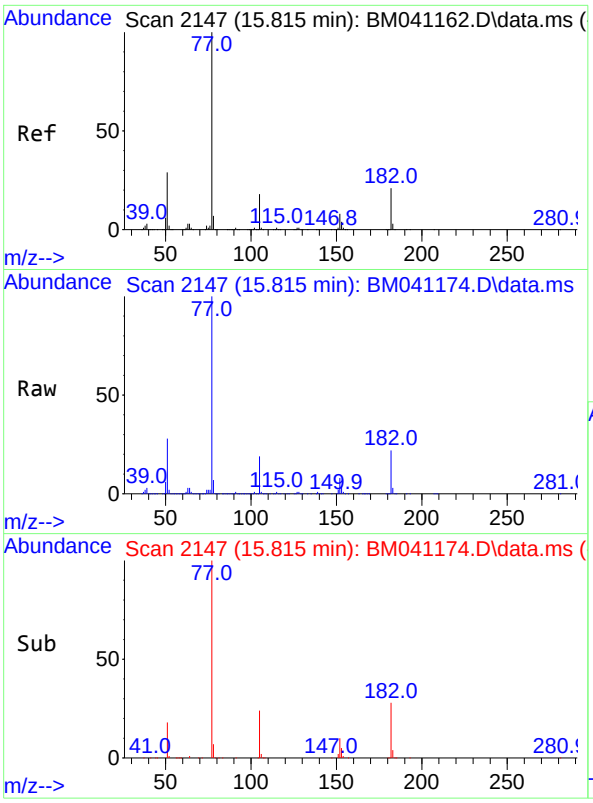


#62
4-Nitroaniline
Concen: 42.220 ng
RT: 15.568 min Scan# 2105
Delta R.T. 0.000 min
Lab File: BM041174.D
Acq: 28 Jul 2023 20:22

Tgt Ion:138 Resp: 275767

Ion	Ratio	Lower	Upper
138	100		
92	52.8	35.1	75.1
108	86.0	67.8	107.8

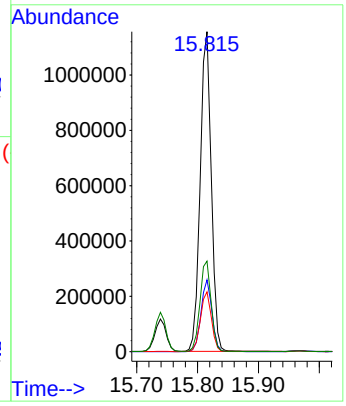




#63
Azobenzene
Concen: 45.977 ng
RT: 15.815 min Scan# 21
Delta R.T. 0.000 min
Lab File: BM041174.D
Acq: 28 Jul 2023 20:22

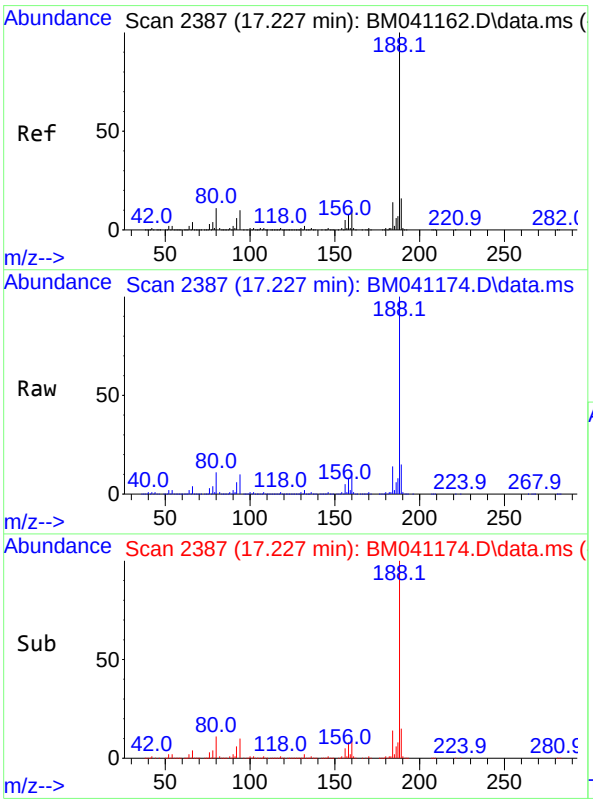
Tgt Ion: 77 Resp: 145833

Ion	Ratio	Lower	Upper
77	100		
182	22.4	1.3	41.3
105	18.7	0.0	38.5
51	28.3	9.1	49.1



Instrument :
BNA_M
ClientSampleId :
SB-04-(1-5)MS

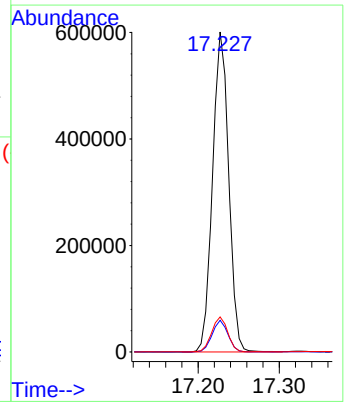
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

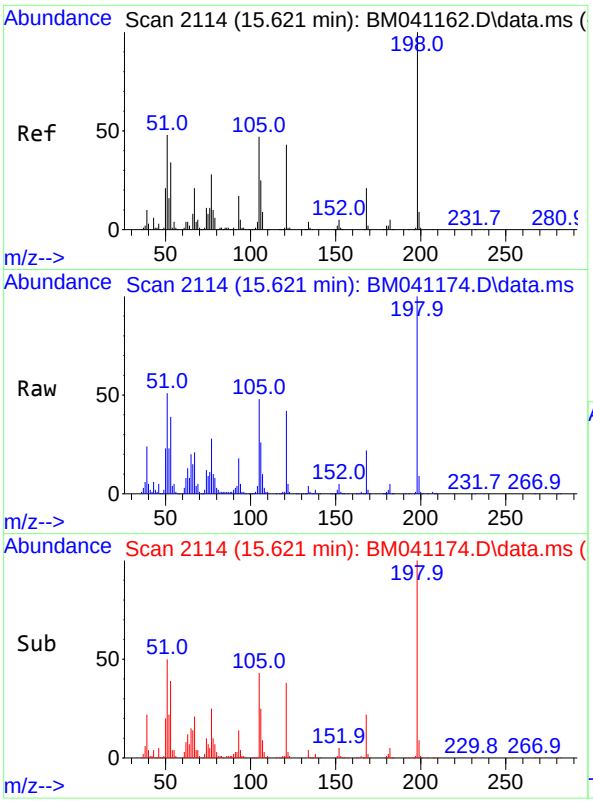


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.227 min Scan# 2387
Delta R.T. -0.000 min
Lab File: BM041174.D
Acq: 28 Jul 2023 20:22

Tgt Ion:188 Resp: 828030

Ion	Ratio	Lower	Upper
188	100		
94	9.9	8.2	12.2
80	10.9	8.6	13.0





#65
4,6-Dinitro-2-methylphenol
Concen: 41.995 ng
RT: 15.621 min Scan# 2
Delta R.T. 0.000 min
Lab File: BM041174.D
Acq: 28 Jul 2023 20:22

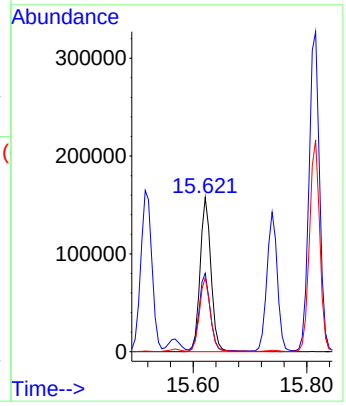
Tgt Ion:198 Resp: 21065

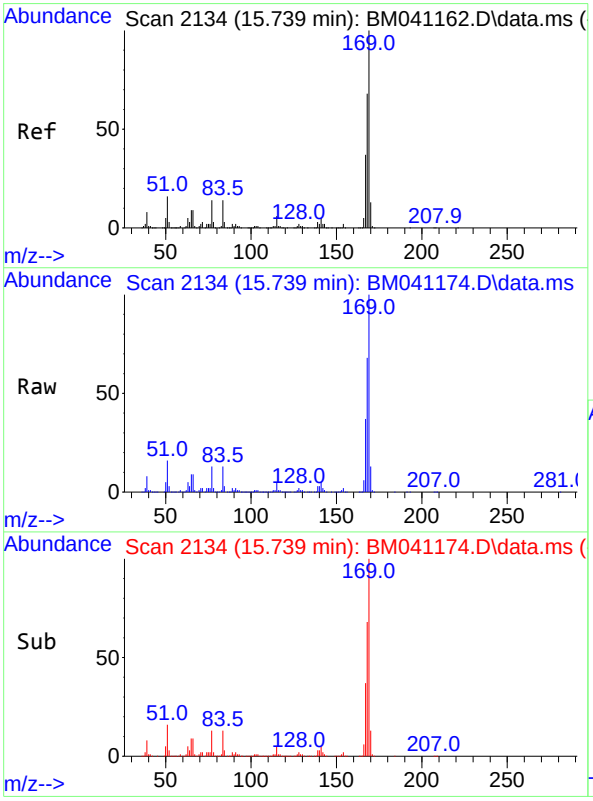
Ion	Ratio	Lower	Upper
198	100		
51	50.9	31.7	71.7
105	47.8	27.8	67.8

Instrument :
BNA_M
ClientSampleId :
SB-04-(1-5)MS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

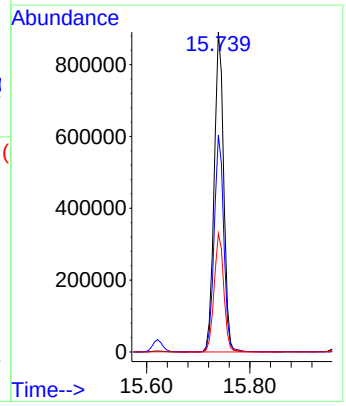


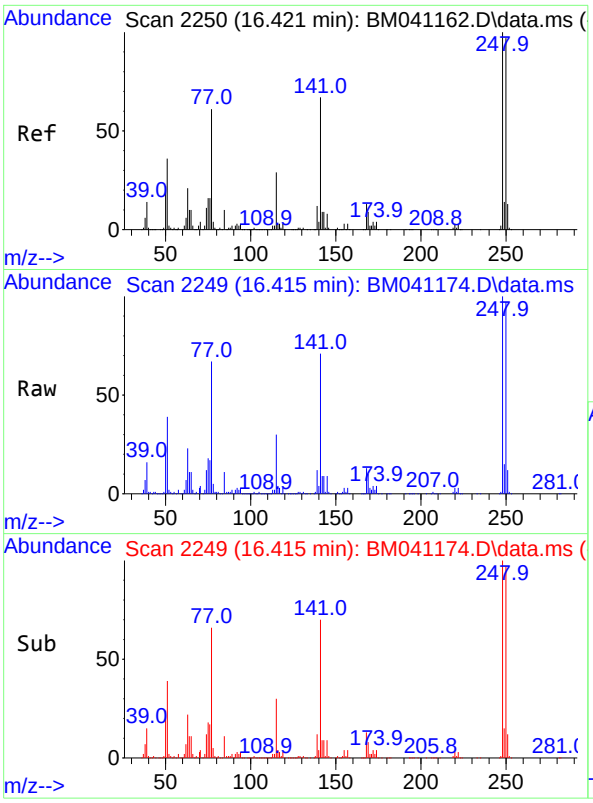


#66
n-Nitrosodiphenylamine
Concen: 44.124 ng
RT: 15.739 min Scan# 2134
Delta R.T. -0.000 min
Lab File: BM041174.D
Acq: 28 Jul 2023 20:22

Tgt Ion:169 Resp: 1136297

Ion	Ratio	Lower	Upper
169	100		
168	67.7	54.6	81.8
167	37.1	29.9	44.9

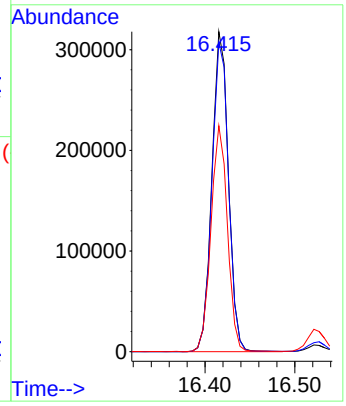




#67
4-Bromophenyl-phenylether
Concen: 44.681 ng
RT: 16.415 min Scan# 2
Delta R.T. -0.006 min
Lab File: BM041174.D
Acq: 28 Jul 2023 20:22

Tgt Ion:248 Resp: 40564

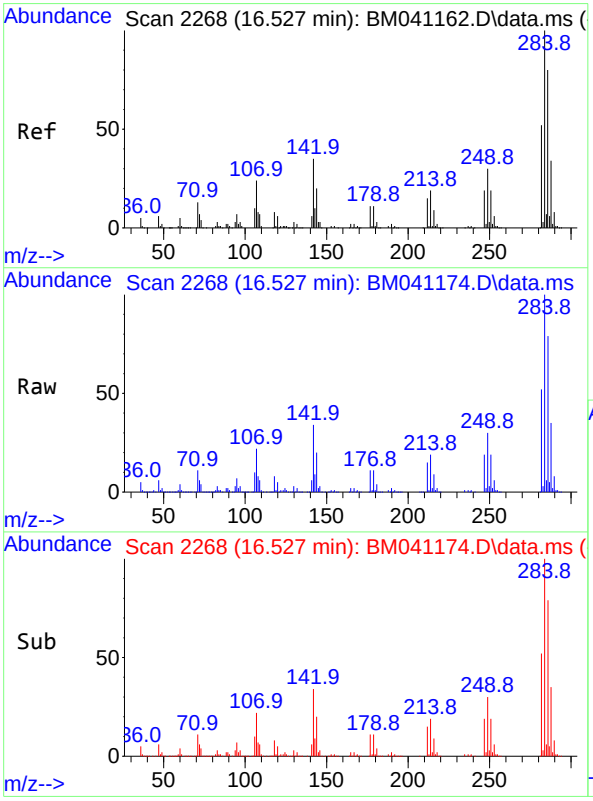
Ion	Ratio	Lower	Upper
248	100		
250	96.6	78.0	117.0
141	70.6	53.8	80.8



Instrument :
BNA_M
ClientSampleId :
SB-04-(1-5)MS

Manual Integrations
APPROVED

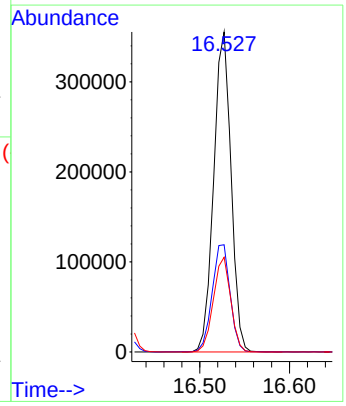
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

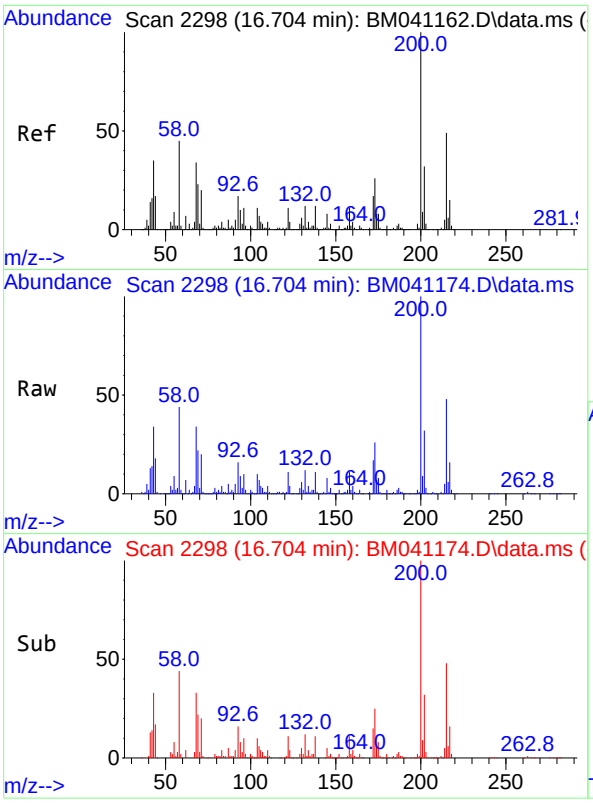


#68
Hexachlorobenzene
Concen: 47.203 ng
RT: 16.527 min Scan# 2268
Delta R.T. -0.000 min
Lab File: BM041174.D
Acq: 28 Jul 2023 20:22

Tgt Ion:284 Resp: 476517

Ion	Ratio	Lower	Upper
284	100		
142	33.5	28.0	42.0
249	29.6	23.7	35.5

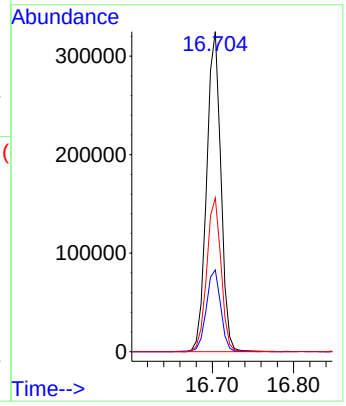




#69
Atrazine
Concen: 58.341 ng
RT: 16.704 min Scan# 2
Delta R.T. -0.000 min
Lab File: BM041174.D
Acq: 28 Jul 2023 20:22

Tgt Ion:200 Resp: 39455

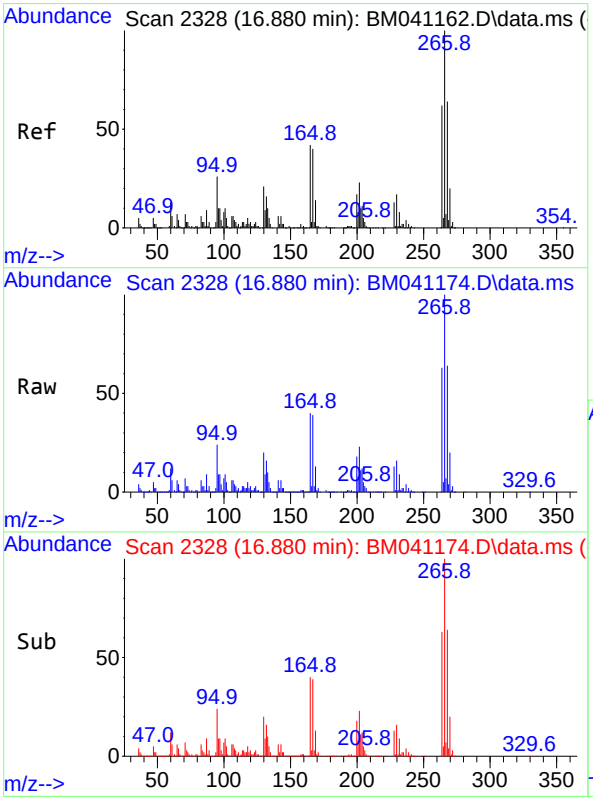
Ion	Ratio	Lower	Upper
200	100		
173	25.6	5.6	45.6
215	48.1	28.5	68.5



Instrument :
BNA_M
ClientSampleId :
SB-04-(1-5)MS

Manual Integrations
APPROVED

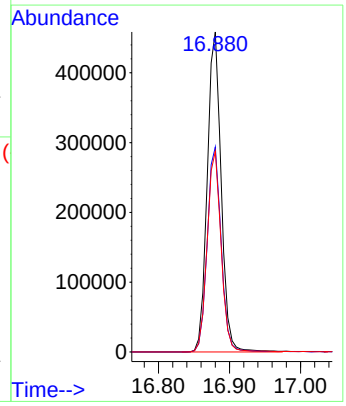
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

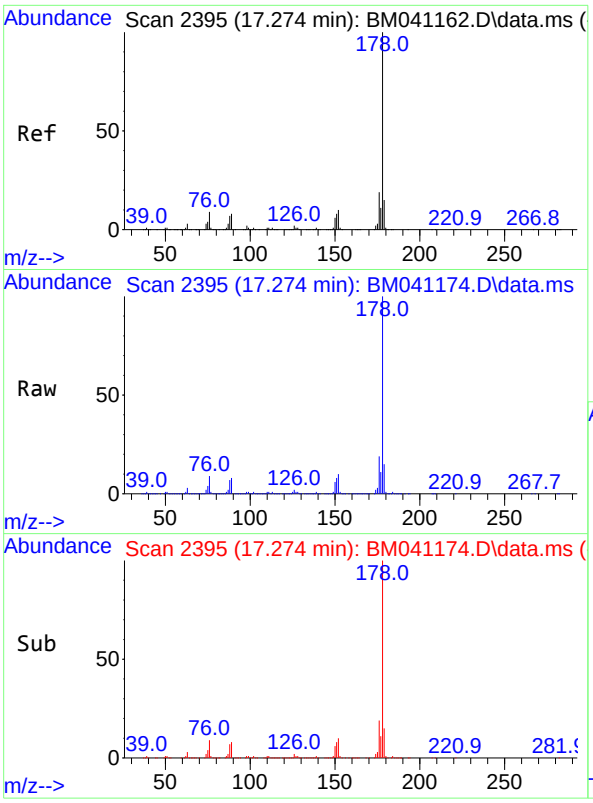


#70
Pentachlorophenol
Concen: 89.470 ng
RT: 16.880 min Scan# 2328
Delta R.T. -0.000 min
Lab File: BM041174.D
Acq: 28 Jul 2023 20:22

Tgt Ion:266 Resp: 625435

Ion	Ratio	Lower	Upper
266	100		
268	64.0	51.0	76.6
264	62.7	49.4	74.2

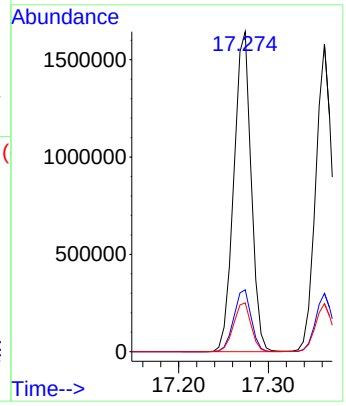




#71
Phenanthrene
Concen: 47.769 ng
RT: 17.274 min Scan# 2
Delta R.T. -0.000 min
Lab File: BM041174.D
Acq: 28 Jul 2023 20:22

Tgt Ion:178 Resp: 219764

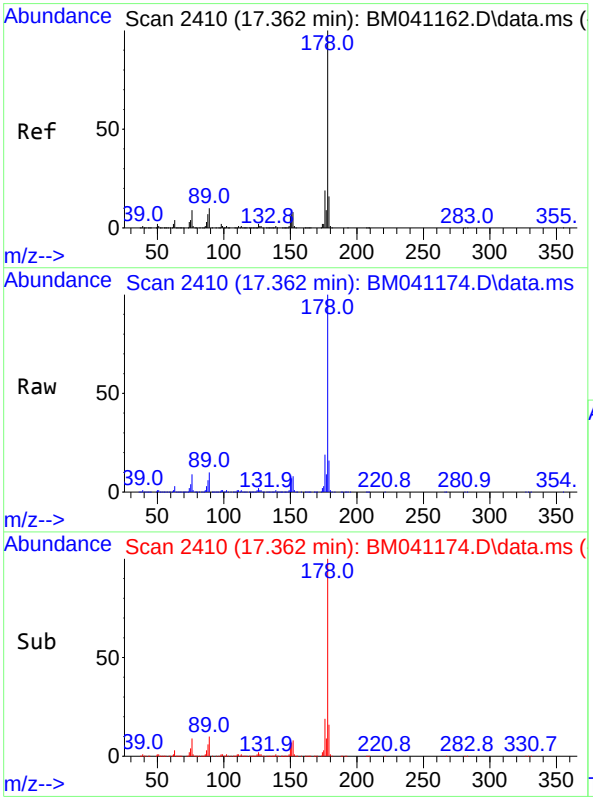
Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.6	23.4
179	15.2	12.1	18.1



Instrument :
BNA_M
ClientSampleId :
SB-04-(1-5)MS

Manual Integrations
APPROVED

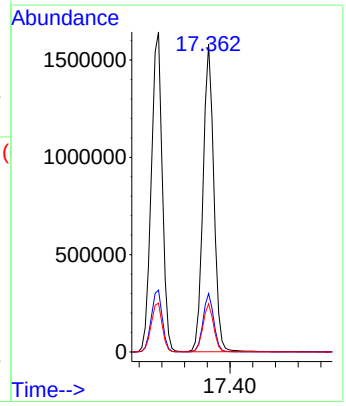
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

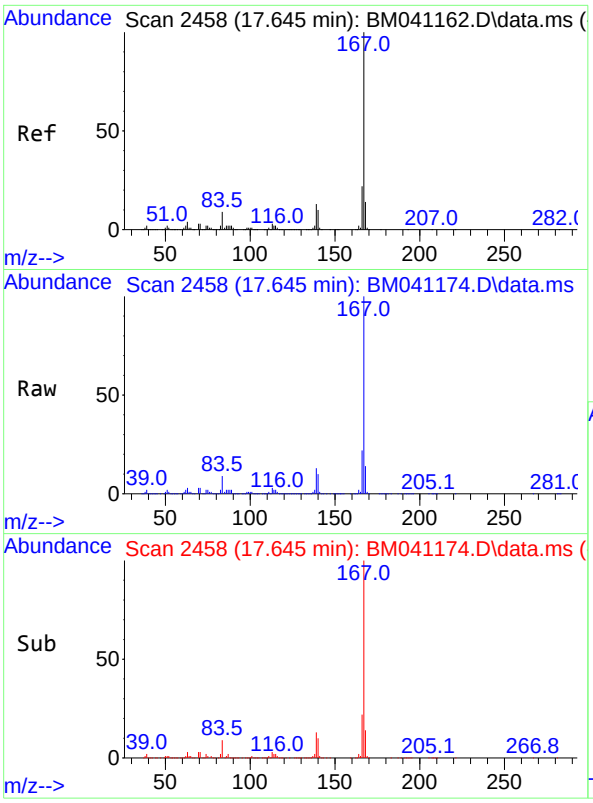


#72
Anthracene
Concen: 45.809 ng
RT: 17.362 min Scan# 2410
Delta R.T. -0.000 min
Lab File: BM041174.D
Acq: 28 Jul 2023 20:22

Tgt Ion:178 Resp: 2084323

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.2	22.8
179	15.7	12.4	18.6

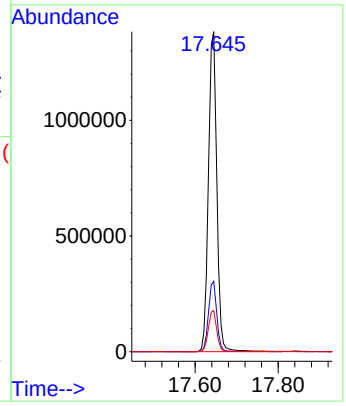




#73
Carbazole
Concen: 47.221 ng
RT: 17.645 min Scan# 24
Delta R.T. -0.000 min
Lab File: BM041174.D
Acq: 28 Jul 2023 20:22

Tgt Ion:167 Resp: 194468

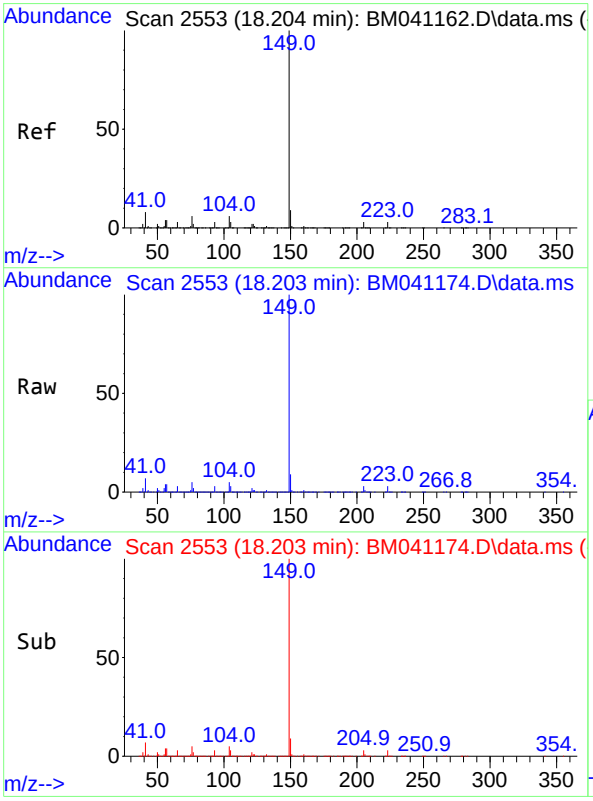
Ion	Ratio	Lower	Upper
167	100		
166	22.0	17.3	25.9
139	12.9	10.3	15.5



Instrument :
BNA_M
ClientSampleId :
SB-04-(1-5)MS

Manual Integrations
APPROVED

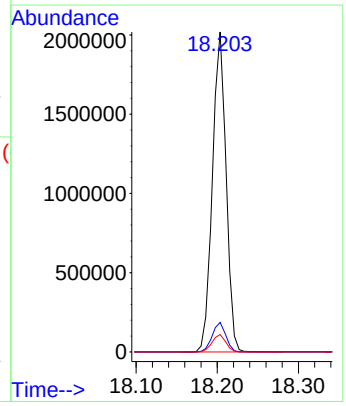
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

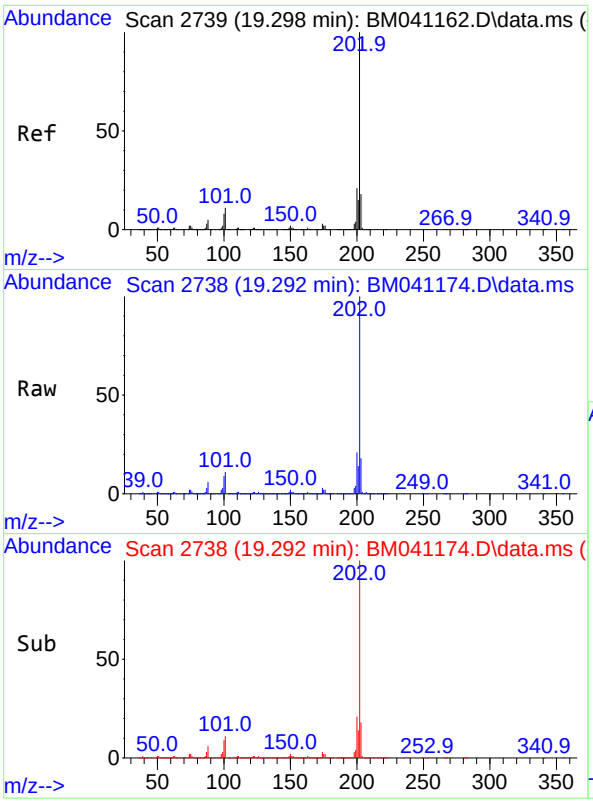


#74
Di-n-butylphthalate
Concen: 50.563 ng
RT: 18.203 min Scan# 2553
Delta R.T. -0.000 min
Lab File: BM041174.D
Acq: 28 Jul 2023 20:22

Tgt Ion:149 Resp: 2353018

Ion	Ratio	Lower	Upper
149	100		
150	9.3	7.3	10.9
104	5.4	4.5	6.7

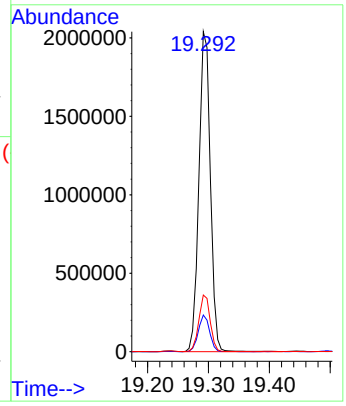




#75
Fluoranthene
Concen: 51.387 ng
RT: 19.292 min Scan# 2
Delta R.T. -0.006 min
Lab File: BM041174.D
Acq: 28 Jul 2023 20:22

Tgt Ion:202 Resp: 265601

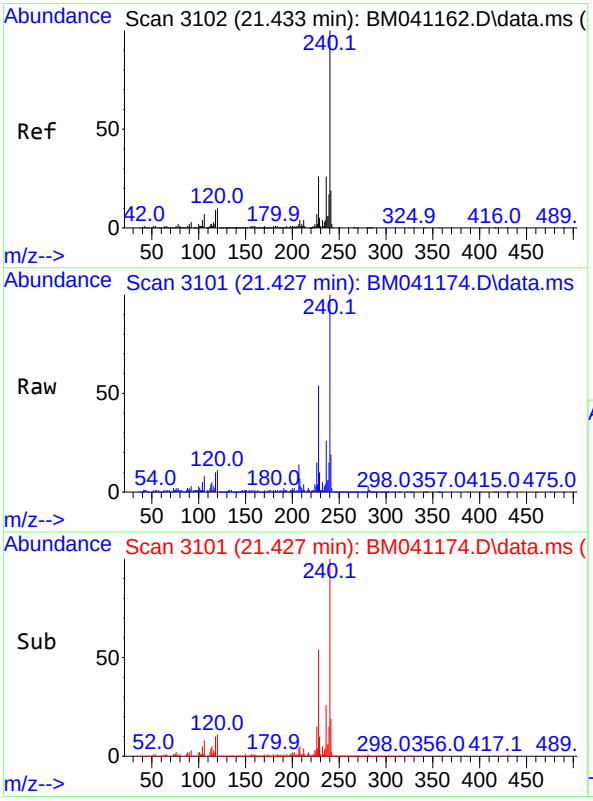
Ion	Ratio	Lower	Upper
202	100		
101	11.4	0.0	30.8
203	17.7	0.0	37.6



Instrument :
BNA_M
ClientSampleId :
SB-04-(1-5)MS

Manual Integrations
APPROVED

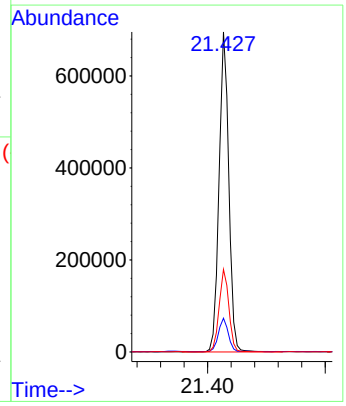
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

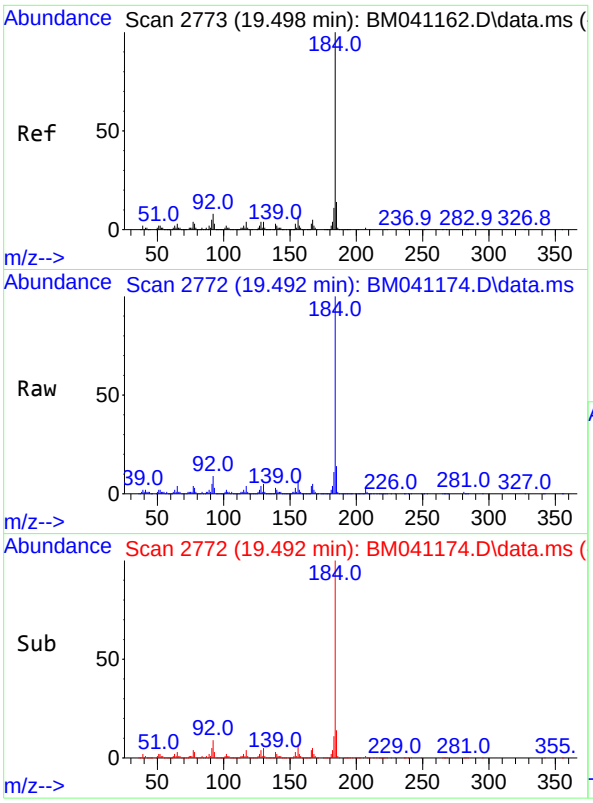


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.427 min Scan# 3101
Delta R.T. -0.006 min
Lab File: BM041174.D
Acq: 28 Jul 2023 20:22

Tgt Ion:240 Resp: 795964

Ion	Ratio	Lower	Upper
240	100		
120	10.6	8.3	12.5
236	25.8	20.6	30.8

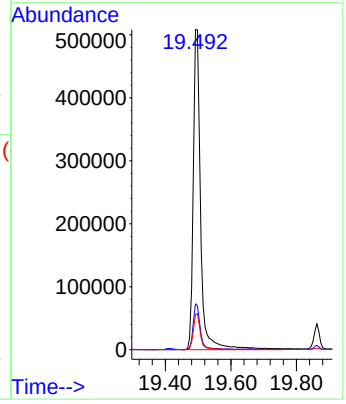




#77
Benzidine
Concen: 73.353 ng
RT: 19.492 min Scan# 2
Delta R.T. -0.006 min
Lab File: BM041174.D
Acq: 28 Jul 2023 20:22

Tgt Ion:184 Resp: 79580

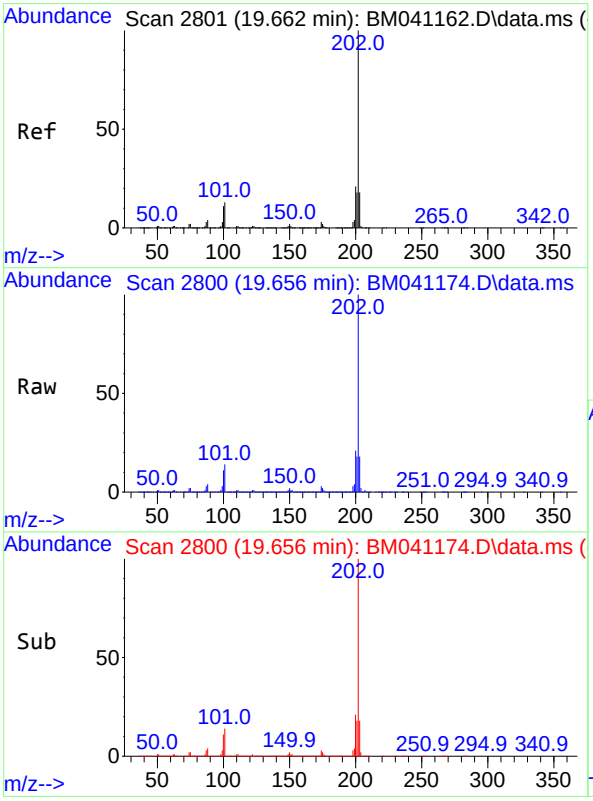
Ion	Ratio	Lower	Upper
184	100		
185	14.2	11.4	17.0
183	11.0	9.2	13.8



Instrument :
BNA_M
ClientSampleId :
SB-04-(1-5)MS

Manual Integrations
APPROVED

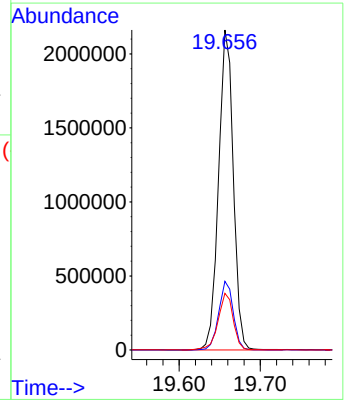
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

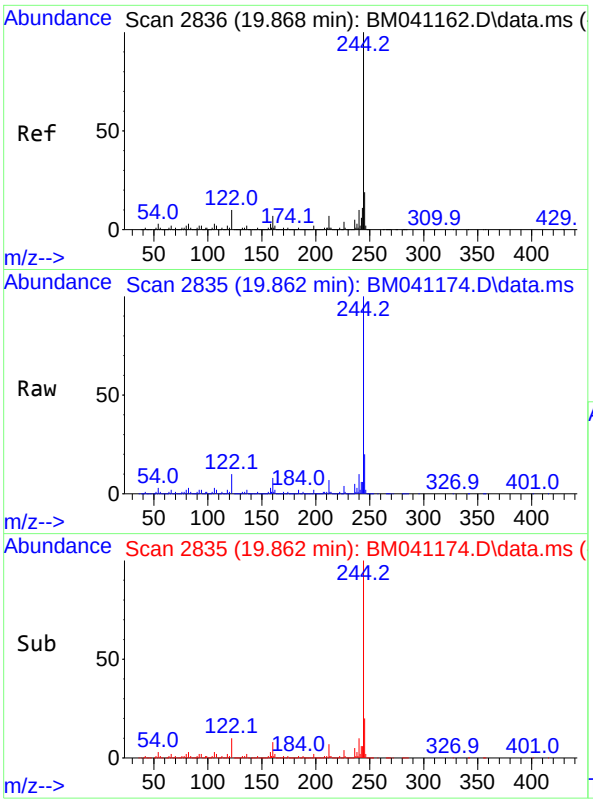


#78
Pyrene
Concen: 48.925 ng
RT: 19.656 min Scan# 2800
Delta R.T. -0.006 min
Lab File: BM041174.D
Acq: 28 Jul 2023 20:22

Tgt Ion:202 Resp: 2723302

Ion	Ratio	Lower	Upper
202	100		
200	21.5	16.9	25.3
203	17.7	14.1	21.1

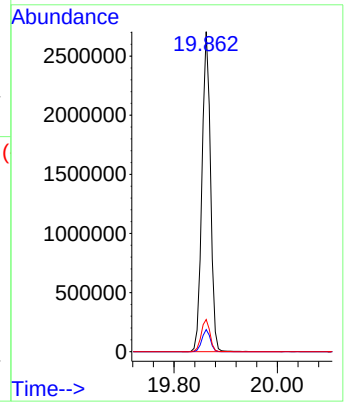




#79
Terphenyl-d14
Concen: 70.355 ng
RT: 19.862 min Scan# 2
Delta R.T. -0.006 min
Lab File: BM041174.D
Acq: 28 Jul 2023 20:22

Tgt Ion:244 Resp: 309726

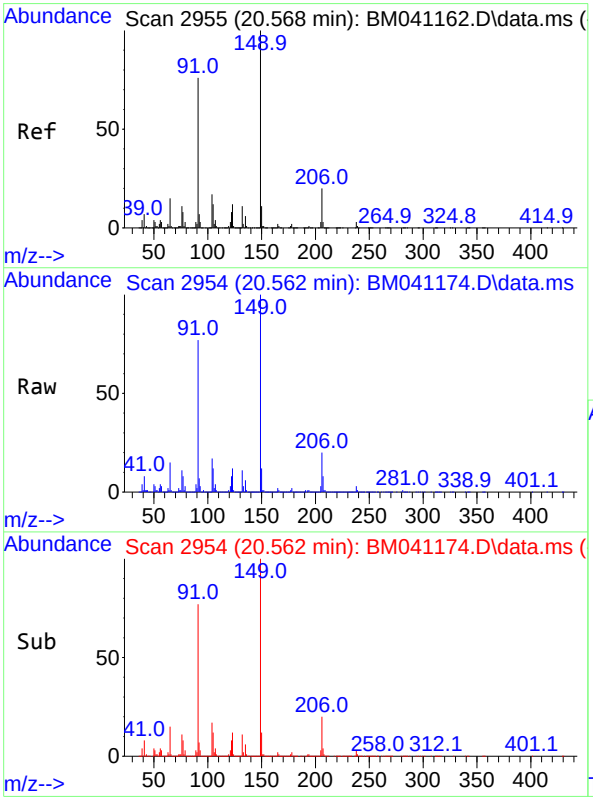
Ion	Ratio	Lower	Upper
244	100		
212	6.9	5.4	8.2
122	10.0	7.8	11.6



Instrument :
BNA_M
ClientSampleId :
SB-04-(1-5)MS

Manual Integrations
APPROVED

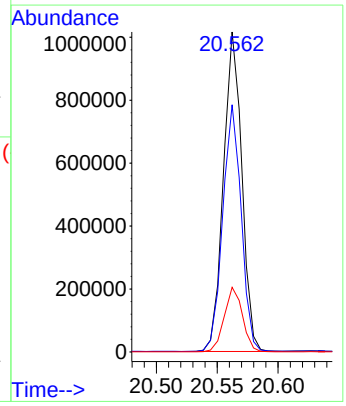
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

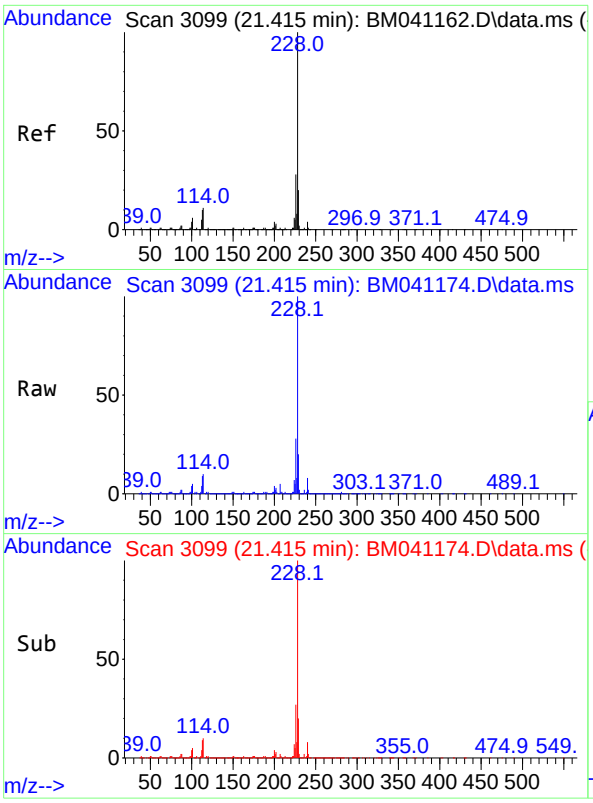


#80
Butylbenzylphthalate
Concen: 52.590 ng
RT: 20.562 min Scan# 2954
Delta R.T. -0.006 min
Lab File: BM041174.D
Acq: 28 Jul 2023 20:22

Tgt Ion:149 Resp: 1068997

Ion	Ratio	Lower	Upper
149	100		
91	77.3	60.8	91.2
206	20.2	16.4	24.6





#81
Benzo(a)anthracene
Concen: 48.271 ng
RT: 21.415 min Scan# 3
Delta R.T. 0.000 min
Lab File: BM041174.D
Acq: 28 Jul 2023 20:22

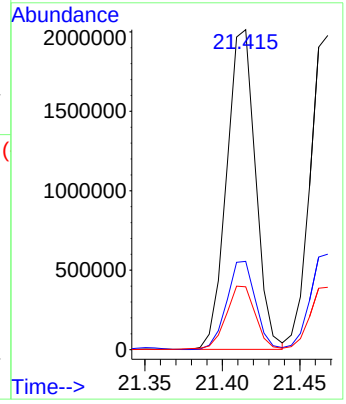
Tgt Ion:228 Resp: 260469

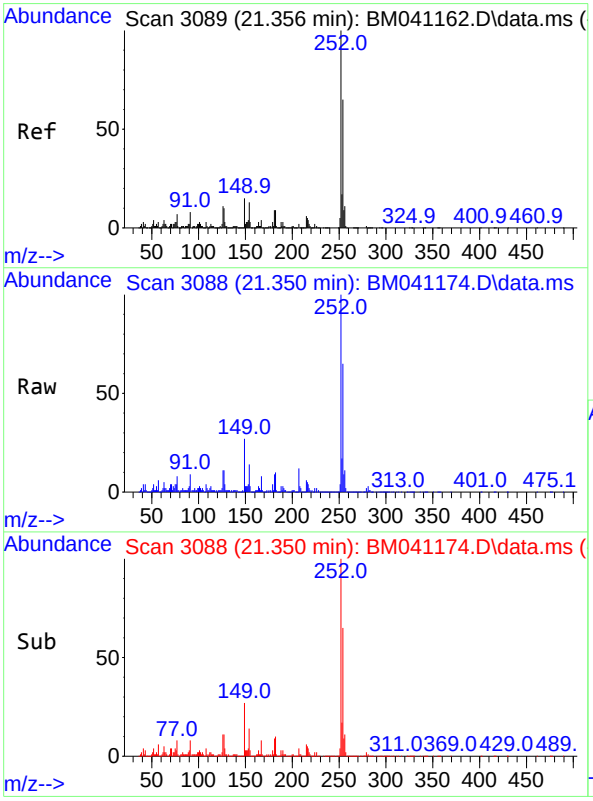
Ion	Ratio	Lower	Upper
228	100		
226	27.6	22.4	33.6
229	19.6	15.8	23.8

Instrument :
BNA_M
ClientSampleId :
SB-04-(1-5)MS

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

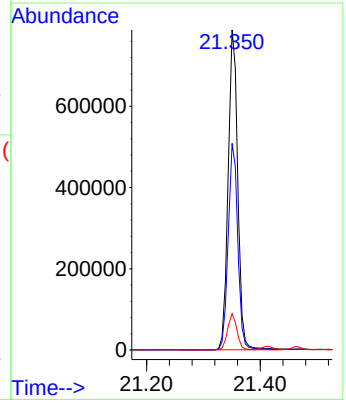


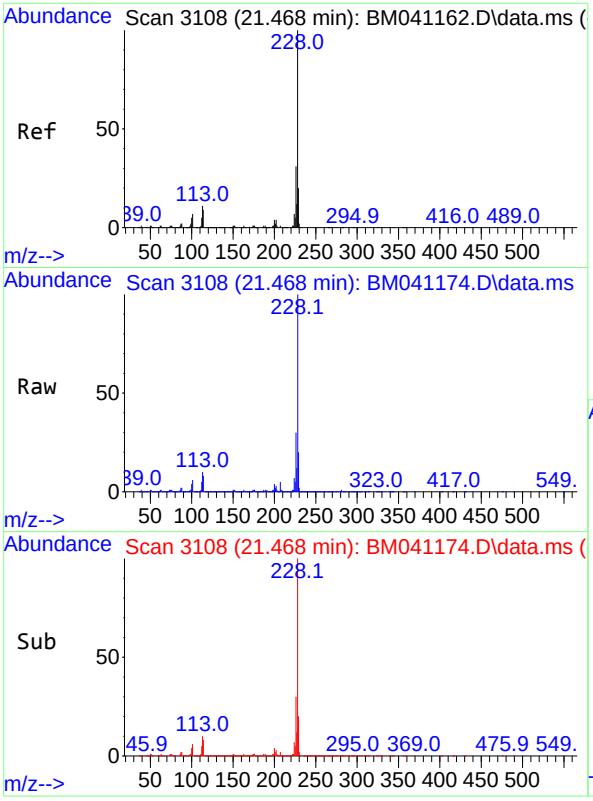


#82
3,3'-Dichlorobenzidine
Concen: 52.959 ng
RT: 21.350 min Scan# 3088
Delta R.T. -0.006 min
Lab File: BM041174.D
Acq: 28 Jul 2023 20:22

Tgt Ion:252 Resp: 932481

Ion	Ratio	Lower	Upper
252	100		
254	64.6	51.8	77.6
126	11.3	8.6	13.0

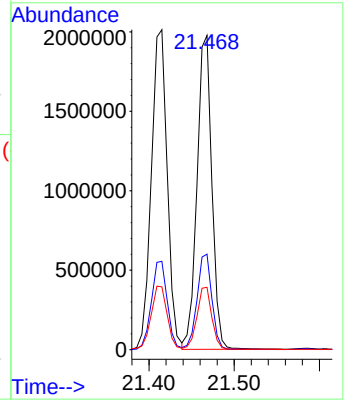




#83
Chrysene
Concen: 45.657 ng
RT: 21.468 min Scan# 3
Delta R.T. -0.000 min
Lab File: BM041174.D
Acq: 28 Jul 2023 20:22

Tgt Ion:228 Resp: 238295

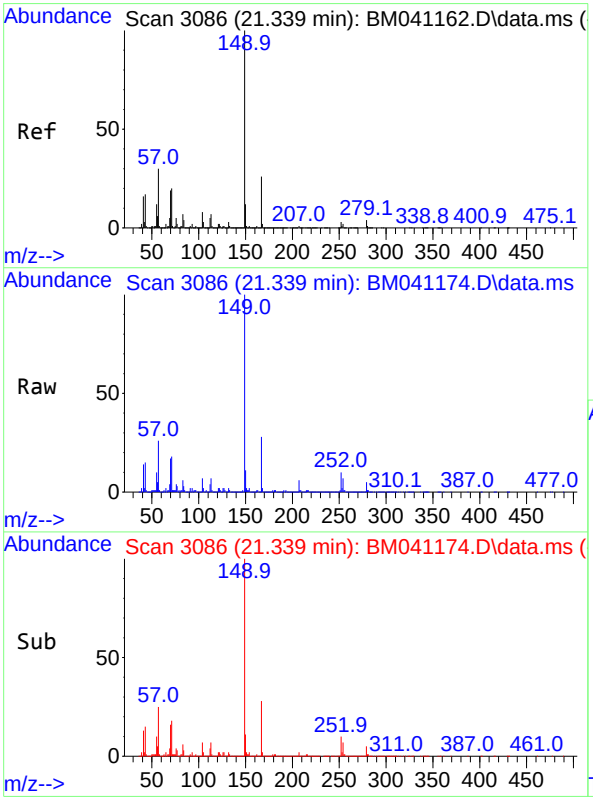
Ion	Ratio	Lower	Upper
228	100		
226	30.4	24.5	36.7
229	19.9	15.8	23.8



Instrument :
BNA_M
ClientSampleId :
SB-04-(1-5)MS

Manual Integrations
APPROVED

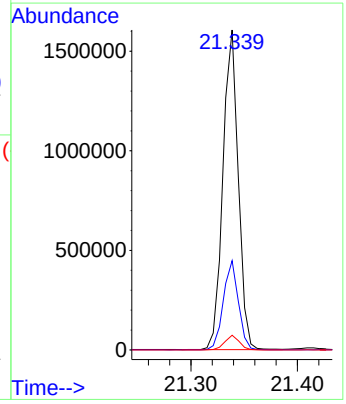
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

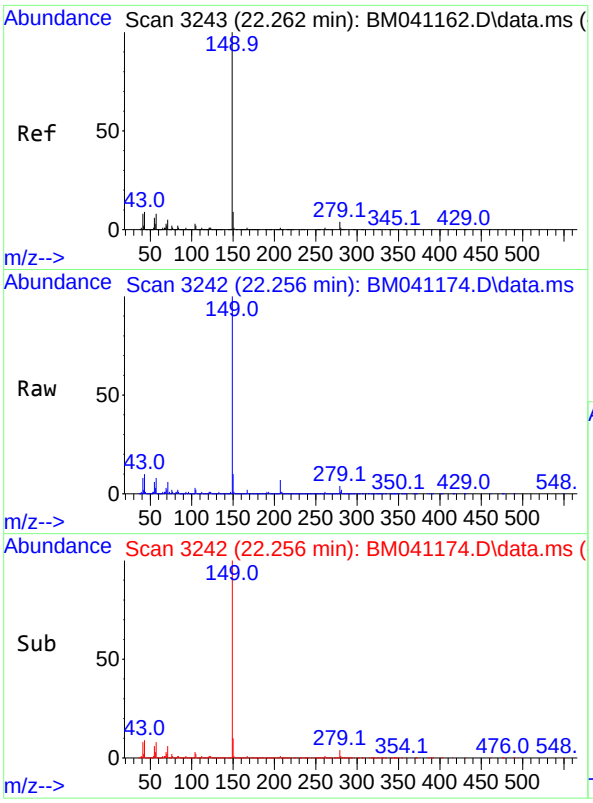


#84
Bis(2-ethylhexyl)phthalate
Concen: 49.452 ng
RT: 21.339 min Scan# 3086
Delta R.T. -0.000 min
Lab File: BM041174.D
Acq: 28 Jul 2023 20:22

Tgt Ion:149 Resp: 1598976

Ion	Ratio	Lower	Upper
149	100		
167	27.9	21.0	31.6
279	4.6	3.1	4.7

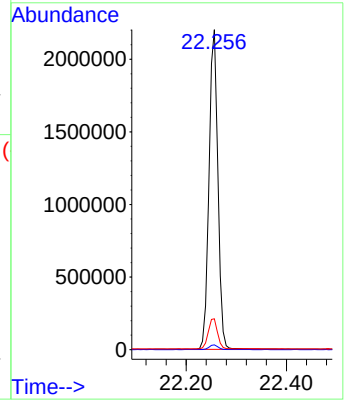




#85
Di-n-octyl phthalate
Concen: 52.647 ng
RT: 22.256 min Scan# 3
Delta R.T. -0.006 min
Lab File: BM041174.D
Acq: 28 Jul 2023 20:22

Tgt Ion:149 Resp: 270463

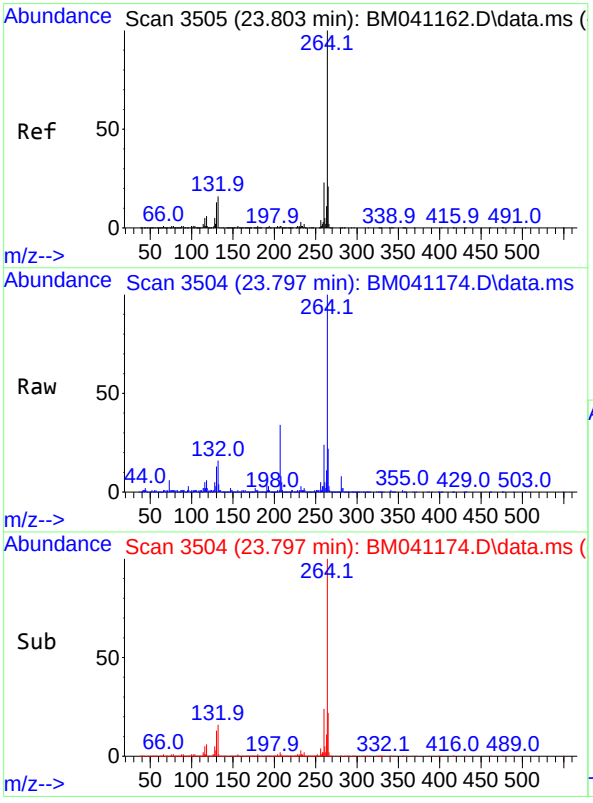
Ion	Ratio	Lower	Upper
149	100		
167	1.5	1.2	1.8
43	9.9	8.3	12.5



Instrument :
BNA_M
ClientSampleId :
SB-04-(1-5)MS

Manual Integrations
APPROVED

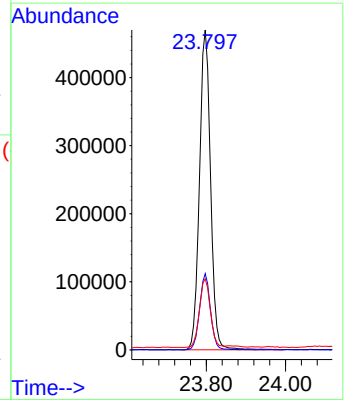
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

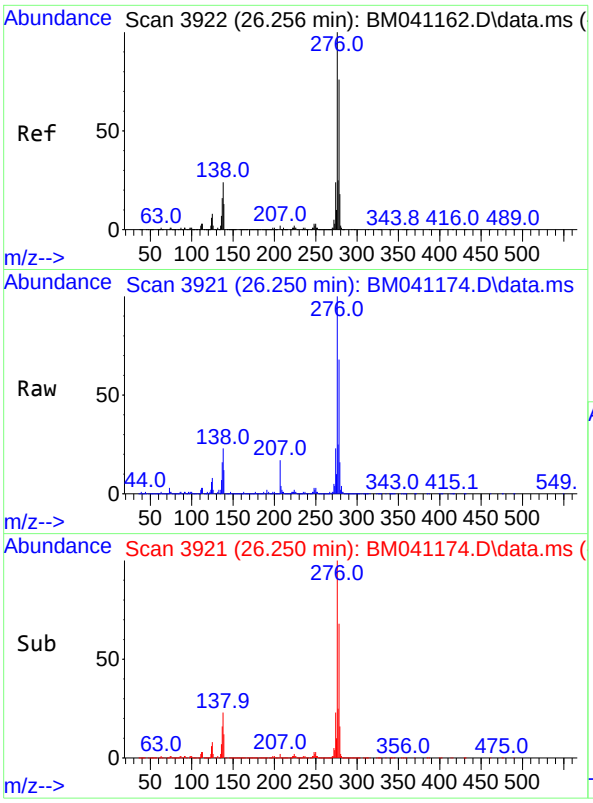


#86
Perylene-d12
Concen: 20.000 ng
RT: 23.797 min Scan# 3504
Delta R.T. -0.006 min
Lab File: BM041174.D
Acq: 28 Jul 2023 20:22

Tgt Ion:264 Resp: 909051

Ion	Ratio	Lower	Upper
264	100		
260	23.9	18.5	27.7
265	22.2	17.4	26.0

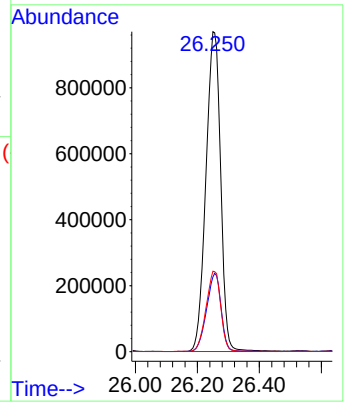




#87
Indeno(1,2,3-cd)pyrene
Concen: 47.707 ng
RT: 26.250 min Scan# 3
Delta R.T. -0.006 min
Lab File: BM041174.D
Acq: 28 Jul 2023 20:22

Tgt Ion:276 Resp: 318849

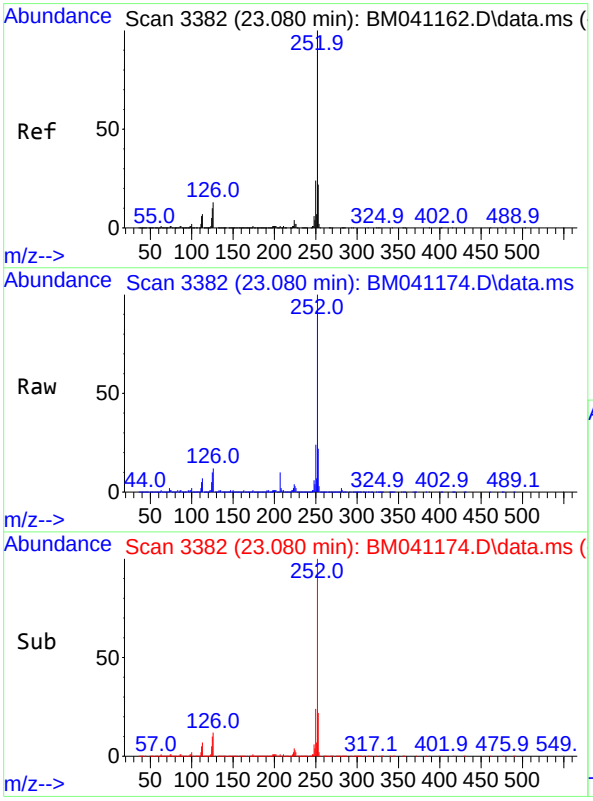
Ion	Ratio	Lower	Upper
276	100		
138	24.0	20.0	30.0
277	24.8	20.1	30.1



Instrument :
BNA_M
ClientSampleId :
SB-04-(1-5)MS

Manual Integrations
APPROVED

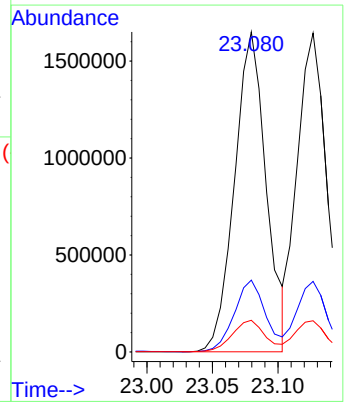
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

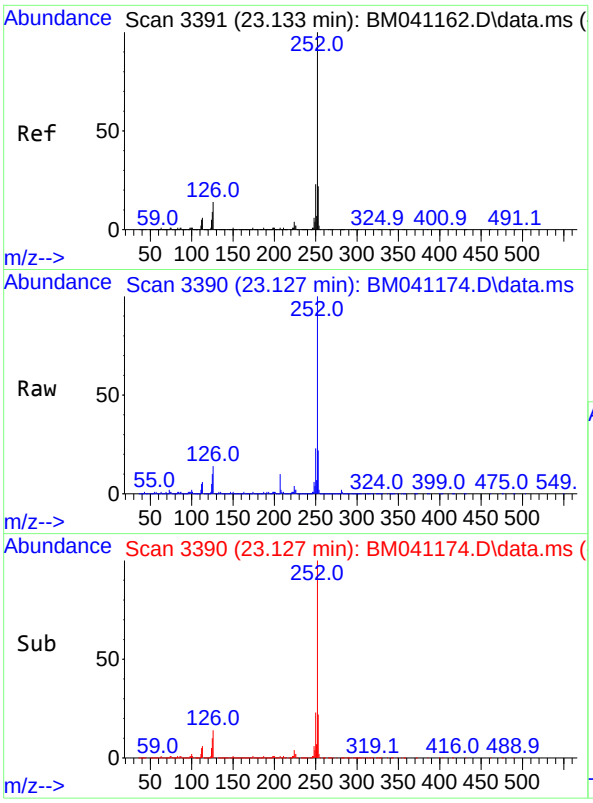


#88
Benzo(b)fluoranthene
Concen: 51.314 ng
RT: 23.080 min Scan# 3382
Delta R.T. -0.000 min
Lab File: BM041174.D
Acq: 28 Jul 2023 20:22

Tgt Ion:252 Resp: 2771128

Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.7	26.5
125	9.9	8.2	12.4

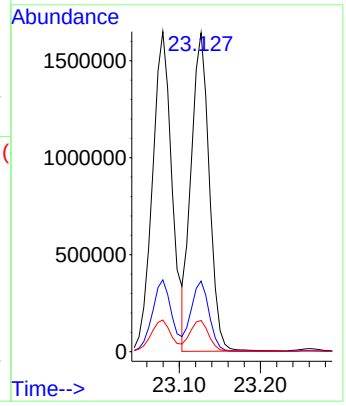




#89
Benzo(k)fluoranthene
Concen: 46.078 ng
RT: 23.127 min Scan# 3
Delta R.T. -0.006 min
Lab File: BM041174.D
Acq: 28 Jul 2023 20:22

Tgt Ion:252 Resp: 254537

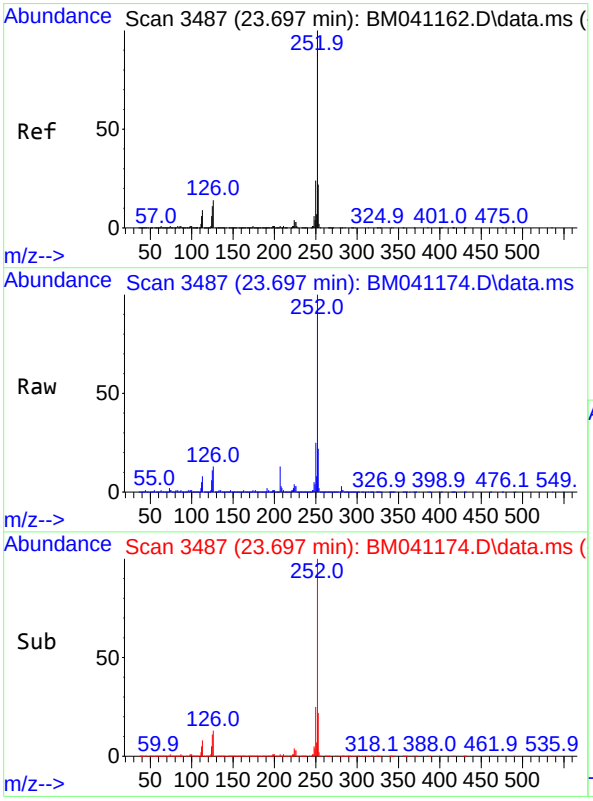
Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.4	26.0
125	9.8	7.6	11.4



Instrument :
BNA_M
ClientSampleId :
SB-04-(1-5)MS

Manual Integrations
APPROVED

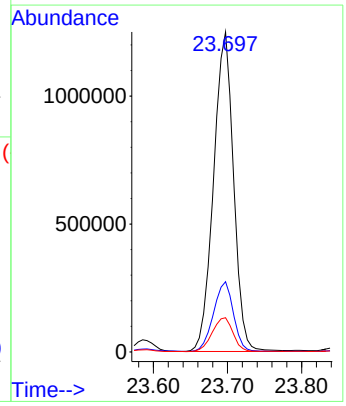
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

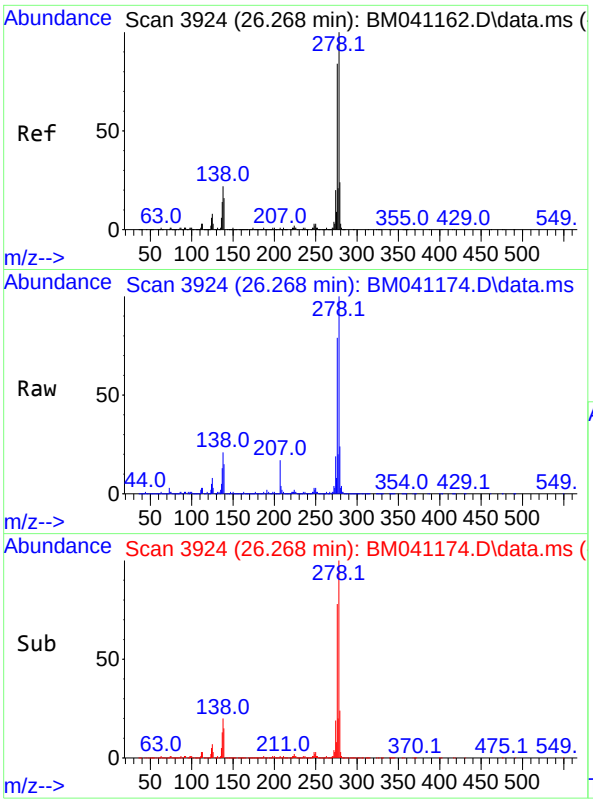


#90
Benzo(a)pyrene
Concen: 45.112 ng
RT: 23.697 min Scan# 3487
Delta R.T. -0.000 min
Lab File: BM041174.D
Acq: 28 Jul 2023 20:22

Tgt Ion:252 Resp: 2340823

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.3	25.9
125	10.7	9.0	13.4

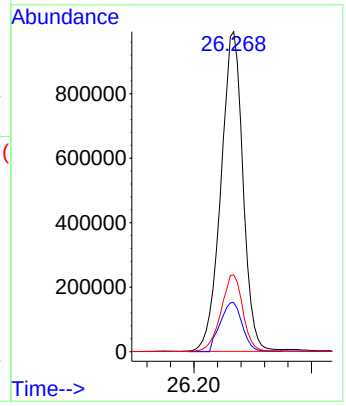




#91
Dibenzo(a,h)anthracene
Concen: 46.209 ng
RT: 26.268 min Scan# 3
Delta R.T. -0.000 min
Lab File: BM041174.D
Acq: 28 Jul 2023 20:22

Tgt Ion:278 Resp: 257598

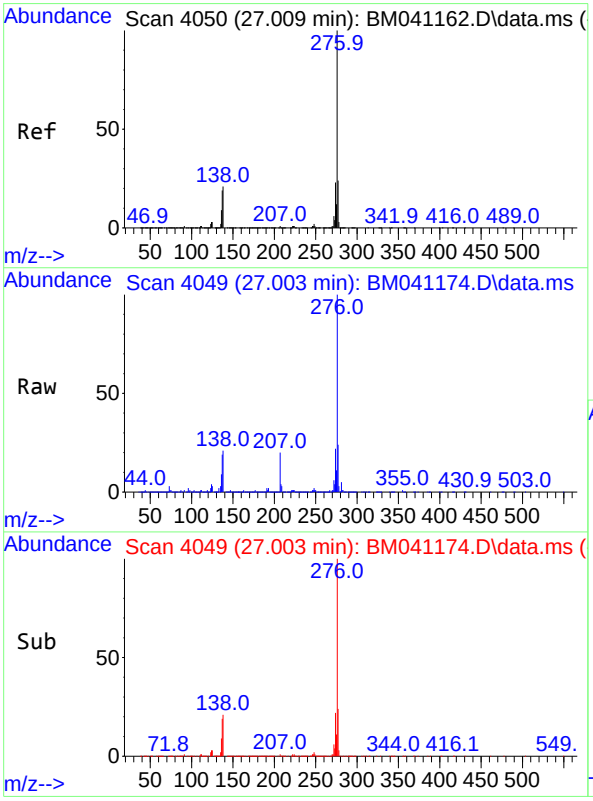
Ion	Ratio	Lower	Upper
278	100		
139	15.4	12.7	19.1
279	23.9	19.1	28.7



Instrument :
BNA_M
ClientSampleId :
SB-04-(1-5)MS

Manual Integrations
APPROVED

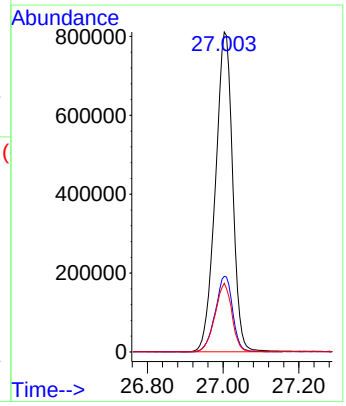
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023



#92
Benzo(g,h,i)perylene
Concen: 46.849 ng
RT: 27.003 min Scan# 4049
Delta R.T. -0.006 min
Lab File: BM041174.D
Acq: 28 Jul 2023 20:22

Tgt Ion:276 Resp: 2555436

Ion	Ratio	Lower	Upper
276	100		
277	23.7	19.1	28.7
138	21.4	17.1	25.7



CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/12/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-04-(1-5)MSD	SDG No.:	O3645
Lab Sample ID:	O3645-10MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	91.3
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM041175.D	1	07/18/23 09:45	07/28/23 21:00	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	1700		160	360	ug/Kg
108-95-2	Phenol	1800		81.4	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1700		98.2	190	ug/Kg
95-57-8	2-Chlorophenol	1700		78.7	190	ug/Kg
95-48-7	2-Methylphenol	1700		120	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1700		110	190	ug/Kg
98-86-2	Acetophenone	1600		94.8	190	ug/Kg
65794-96-9	3+4-Methylphenols	1700		120	360	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1700		64.5	87.5	ug/Kg
67-72-1	Hexachloroethane	1700		80.5	190	ug/Kg
98-95-3	Nitrobenzene	1600		82.2	190	ug/Kg
78-59-1	Isophorone	1700		74.5	190	ug/Kg
88-75-5	2-Nitrophenol	1800		100	190	ug/Kg
105-67-9	2,4-Dimethylphenol	1700		110	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1600		120	190	ug/Kg
120-83-2	2,4-Dichlorophenol	1800		85.4	190	ug/Kg
91-20-3	Naphthalene	1600		89.0	190	ug/Kg
106-47-8	4-Chloroaniline	1400		110	190	ug/Kg
87-68-3	Hexachlorobutadiene	1600		91.9	190	ug/Kg
105-60-2	Caprolactam	1800		130	360	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1800		90.2	190	ug/Kg
91-57-6	2-Methylnaphthalene	1600		100	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	3400	E	230	360	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1800		84.3	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1600		96.1	190	ug/Kg
92-52-4	1,1-Biphenyl	1600		99.8	190	ug/Kg
91-58-7	2-Chloronaphthalene	1700		92.5	190	ug/Kg
88-74-4	2-Nitroaniline	1800		110	190	ug/Kg
131-11-3	Dimethylphthalate	1800		97.2	190	ug/Kg
208-96-8	Acenaphthylene	1700		96.7	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	1700		98.4	190	ug/Kg

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/12/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-04-(1-5)MSD	SDG No.:	O3645
Lab Sample ID:	O3645-10MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	91.3
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM041175.D	1	07/18/23 09:45	07/28/23 21:00	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
99-09-2	3-Nitroaniline	1500		100	190	ug/Kg
83-32-9	Acenaphthene	1700		87.8	190	ug/Kg
51-28-5	2,4-Dinitrophenol	2900		200	360	ug/Kg
100-02-7	4-Nitrophenol	4100	E	120	360	ug/Kg
132-64-9	Dibenzofuran	1600		84.1	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	1600		110	190	ug/Kg
84-66-2	Diethylphthalate	1700		93.9	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1700		98.8	190	ug/Kg
86-73-7	Fluorene	1700		92.7	190	ug/Kg
100-01-6	4-Nitroaniline	1600		110	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1500		96.0	360	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1600		100	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1700		110	190	ug/Kg
118-74-1	Hexachlorobenzene	1800		110	190	ug/Kg
1912-24-9	Atrazine	2200		100	190	ug/Kg
87-86-5	Pentachlorophenol	3400	E	120	360	ug/Kg
85-01-8	Phenanthrene	1800		100	190	ug/Kg
120-12-7	Anthracene	1700		110	190	ug/Kg
86-74-8	Carbazole	1800		92.8	190	ug/Kg
84-74-2	Di-n-butylphthalate	1900		110	190	ug/Kg
206-44-0	Fluoranthene	1900		100	190	ug/Kg
129-00-0	Pyrene	1800		91.5	190	ug/Kg
85-68-7	Butylbenzylphthalate	1900		110	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	2000		180	360	ug/Kg
56-55-3	Benzo(a)anthracene	1800		91.7	190	ug/Kg
218-01-9	Chrysene	1700		94.9	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1800		130	190	ug/Kg
117-84-0	Di-n-octyl phthalate	2000		130	360	ug/Kg
205-99-2	Benzo(b)fluoranthene	1900		87.8	190	ug/Kg
207-08-9	Benzo(k)fluoranthene	1700		96.3	190	ug/Kg
50-32-8	Benzo(a)pyrene	1700		100	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1700		120	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1700		110	190	ug/Kg

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LaBella Associates P.C.	Date Collected:	07/12/23
Project:	Mackenna Parcels	Date Received:	07/17/23
Client Sample ID:	SB-04-(1-5)MSD	SDG No.:	O3645
Lab Sample ID:	O3645-10MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	91.3
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM041175.D	1	07/18/23 09:45	07/28/23 21:00	PB154258

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
191-24-2	Benzo(g,h,i)perylene	1700		100	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1700		97.8	190	ug/Kg
123-91-1	1,4-Dioxane	1300		130	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1800		90.6	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	98.6		18 - 112	66%	SPK: 150
13127-88-3	Phenol-d6	101		21 - 104	68%	SPK: 150
4165-60-0	Nitrobenzene-d5	65.1		27 - 109	65%	SPK: 100
321-60-8	2-Fluorobiphenyl	65.3		30 - 103	65%	SPK: 100
118-79-6	2,4,6-Tribromophenol	106		10 - 121	71%	SPK: 150
1718-51-0	Terphenyl-d14	71.1		21 - 107	71%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	193000	7.804			
1146-65-2	Naphthalene-d8	742000	10.61			
15067-26-2	Acenaphthene-d10	413000	14.468			
1517-22-2	Phenanthrene-d10	855000	17.227			
1719-03-5	Chrysene-d12	829000	21.427			
1520-96-3	Perylene-d12	953000	23.797			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM072823\
Data File : BM041175.D
Acq On : 28 Jul 2023 21:00
Operator : MA/JU
Sample : 03645-10MSD
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 29 01:19:01 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Jul 29 00:19:24 2023
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
SB-04-(1-5)MSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.804	152	193205	20.000	ng		0.00
21) Naphthalene-d8	10.610	136	741556	20.000	ng		0.00
39) Acenaphthene-d10	14.468	164	413329	20.000	ng		0.00
64) Phenanthrene-d10	17.227	188	855318	20.000	ng		0.00
76) Chrysene-d12	21.427	240	829098	20.000	ng		0.00
86) Perylene-d12	23.797	264	953040	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.375	112	1274916	98.624	ng		0.00
7) Phenol-d6	6.987	99	1699807	101.442	ng		0.00
23) Nitrobenzene-d5	8.981	82	1038401	65.120	ng		0.00
42) 2,4,6-Tribromophenol	15.968	330	619684	105.996	ng		0.00
45) 2-Fluorobiphenyl	13.086	172	2138068	65.345	ng		0.00
79) Terphenyl-d14	19.862	244	3259782	71.088	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.269	88	199360	36.050	ng		99
3) Pyridine	3.675	79	510111m	35.082	ng		
4) n-Nitrosodimethylamine	3.587	42	287422	42.740	ng		96
6) Aniline	7.140	93	791045	40.339	ng		99
8) 2-Chlorophenol	7.369	128	596694	47.282	ng		100
9) Benzaldehyde	6.951	77	403911m	45.682	ng		
10) Phenol	7.010	94	782933	48.377	ng		99
11) bis(2-Chloroethyl)ether	7.240	93	597034	45.574	ng		98
12) 1,3-Dichlorobenzene	7.692	146	638108	46.452	ng		99
13) 1,4-Dichlorobenzene	7.839	146	650972	47.147	ng		99
14) 1,2-Dichlorobenzene	8.157	146	617270	46.626	ng		99
15) Benzyl Alcohol	8.057	79	540064	51.036	ng		99
16) 2,2'-oxybis(1-Chloropr...	8.345	45	790938	45.314	ng		99
17) 2-Methylphenol	8.263	107	502632	45.459	ng		100
18) Hexachloroethane	8.875	117	243124	47.297	ng		97
19) n-Nitroso-di-n-propyla...	8.628	70	468968	46.078	ng		99
20) 3+4-Methylphenols	8.592	107	685703	46.383	ng		99
22) Acetophenone	8.645	105	885028	45.063	ng	#	100
24) Nitrobenzene	9.022	77	698142	43.294	ng		99
25) Isophorone	9.551	82	1253446	46.307	ng		100
26) 2-Nitrophenol	9.733	139	306987	48.698	ng		97
27) 2,4-Dimethylphenol	9.798	122	513169	46.261	ng		100
28) bis(2-Chloroethoxy)met...	10.033	93	759574	44.798	ng		99
29) 2,4-Dichlorophenol	10.269	162	543659	48.599	ng		99
30) 1,2,4-Trichlorobenzene	10.475	180	564872	45.704	ng		98
31) Naphthalene	10.663	128	1762958	43.810	ng		100
32) Benzoic acid	9.957	122	402637	48.279	ng		98
33) 4-Chloroaniline	10.792	127	635498	39.517	ng		99
34) Hexachlorobutadiene	10.933	225	332959	44.793	ng		98
35) Caprolactam	11.610	113	162409m	50.187	ng		
36) 4-Chloro-3-methylphenol	11.922	107	569391	48.360	ng		99
37) 2-Methylnaphthalene	12.280	142	1198580	44.180	ng		99
38) 1-Methylnaphthalene	12.504	142	1119548	44.091	ng		99
40) 1,2,4,5-Tetrachloroben...	12.651	216	612424	45.631	ng		99
41) Hexachlorocyclopentadiene	12.616	237	668146	94.099	ng		99
43) 2,4,6-Trichlorophenol	12.898	196	413685	48.090	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM072823\
Data File : BM041175.D
Acq On : 28 Jul 2023 21:00
Operator : MA/JU
Sample : 03645-10MSD
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 29 01:19:01 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Jul 29 00:19:24 2023
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
SB-04-(1-5)MSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.974	196	450192	45.216	ng	98
46) 1,1'-Biphenyl	13.298	154	1514855	45.209	ng	99
47) 2-Chloronaphthalene	13.339	162	1166928	46.641	ng	99
48) 2-Nitroaniline	13.563	65	388233	48.613	ng	98
49) Acenaphthylene	14.192	152	1840084	45.565	ng	99
50) Dimethylphthalate	13.939	163	1533280	49.315	ng	99
51) 2,6-Dinitrotoluene	14.069	165	304357	47.245	ng	97
52) Acenaphthene	14.533	154	1110294	45.638	ng	100
53) 3-Nitroaniline	14.398	138	314313	42.477	ng	95
54) 2,4-Dinitrophenol	14.610	184	345457	79.452	ng	93
55) Dibenzofuran	14.868	168	1778602	44.810	ng	99
56) 4-Nitrophenol	14.716	139	607199	113.093	ng	97
57) 2,4-Dinitrotoluene	14.857	165	414348	45.204	ng	94
58) Fluorene	15.521	166	1440311	45.997	ng	100
59) 2,3,4,6-Tetrachlorophenol	15.104	232	387121	48.015	ng	100
60) Diethylphthalate	15.304	149	1402492	46.646	ng	99
61) 4-Chlorophenyl-phenyle...	15.521	204	719755	45.870	ng	98
62) 4-Nitroaniline	15.568	138	295630	43.456	ng	99
63) Azobenzene	15.815	77	1514567	45.987	ng	97
65) 4,6-Dinitro-2-methylph...	15.621	198	211385	40.796	ng	99
66) n-Nitrosodiphenylamine	15.739	169	1188488	44.678	ng	100
67) 4-Bromophenyl-phenylether	16.415	248	429722	45.823	ng	98
68) Hexachlorobenzene	16.527	284	505627	48.488	ng	97
69) Atrazine	16.704	200	412722	59.080	ng	99
70) Pentachlorophenol	16.880	266	667200	92.400	ng	99
71) Phenanthrene	17.268	178	2295408	48.302	ng	99
72) Anthracene	17.362	178	2186590	46.523	ng	100
73) Carbazole	17.645	167	2043515	48.038	ng	100
74) Di-n-butylphthalate	18.204	149	2458744	51.149	ng	100
75) Fluoranthene	19.292	202	2802690	52.495	ng	99
77) Benzidine	19.498	184	804544	71.195	ng	99
78) Pyrene	19.656	202	2875871	49.601	ng	99
80) Butylbenzylphthalate	20.562	149	1119340	52.866	ng	98
81) Benzo(a)anthracene	21.415	228	2762190	49.144	ng	99
82) 3,3'-Dichlorobenzidine	21.350	252	999663	54.505	ng	100
83) Chrysene	21.468	228	2532609	46.585	ng	100
84) Bis(2-ethylhexyl)phtha...	21.339	149	1682333	49.926	ng	98
85) Di-n-octyl phthalate	22.256	149	2864753	53.535	ng	98
87) Indeno(1,2,3-cd)pyrene	26.256	276	3361398	47.973	ng	99
88) Benzo(b)fluoranthene	23.080	252	2922970	51.628	ng	99
89) Benzo(k)fluoranthene	23.127	252	2702511	46.665	ng	99
90) Benzo(a)pyrene	23.697	252	2472993	45.459	ng	99
91) Dibenzo(a,h)anthracene	26.262	278	2737288	46.837	ng	99
92) Benzo(g,h,i)perylene	27.003	276	2681210	46.886	ng	99

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

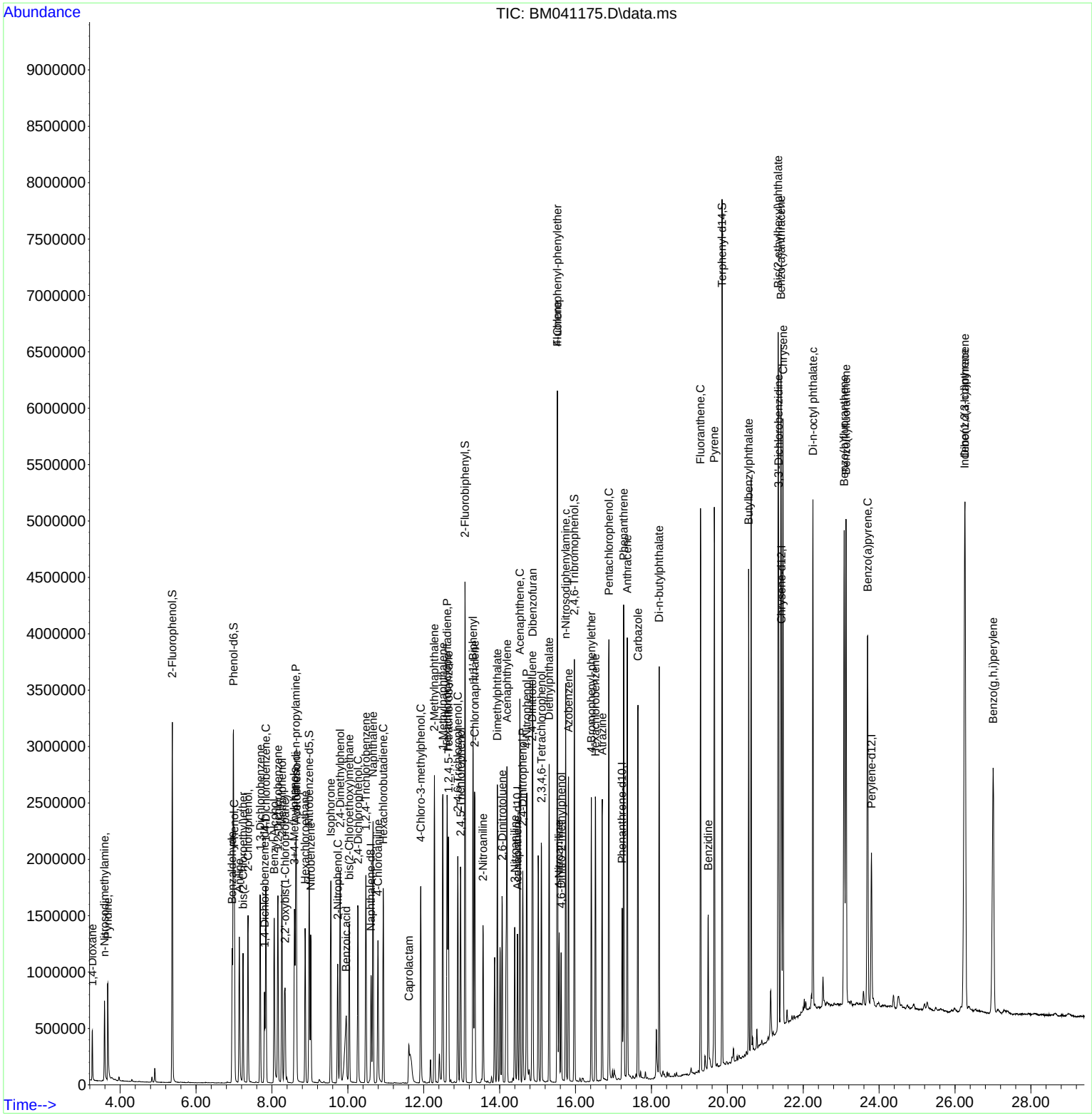
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM072823\
Data File : BM041175.D
Acq On : 28 Jul 2023 21:00
Operator : MA/JU
Sample : 03645-10MSD
Misc :
ALS Vial : 8 Sample Multiplier: 1

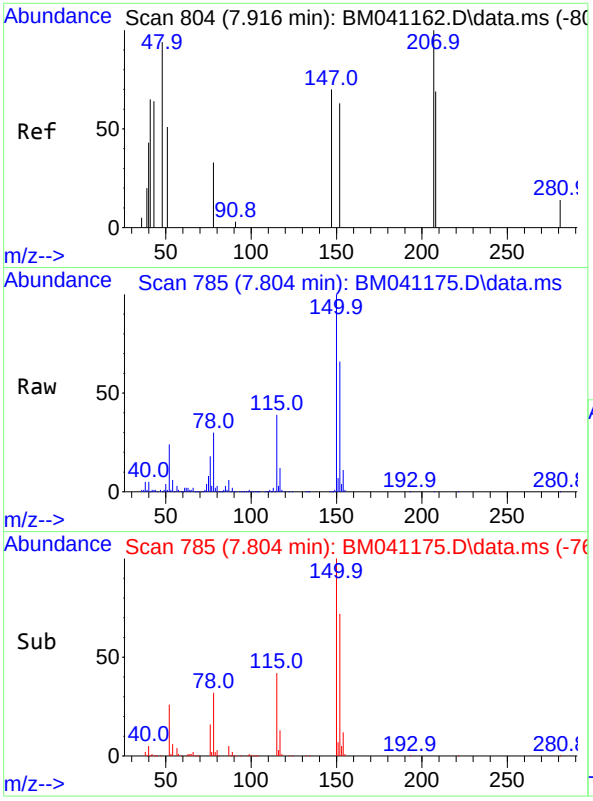
Quant Time: Jul 29 01:19:01 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM072823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Jul 29 00:19:24 2023
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
SB-04-(1-5)MSD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

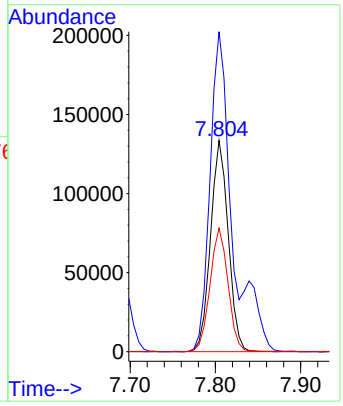




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.804 min Scan# 7
Delta R.T. 0.000 min
Lab File: BM041175.D
Acq: 28 Jul 2023 21:00

Tgt Ion:152 Resp: 19320

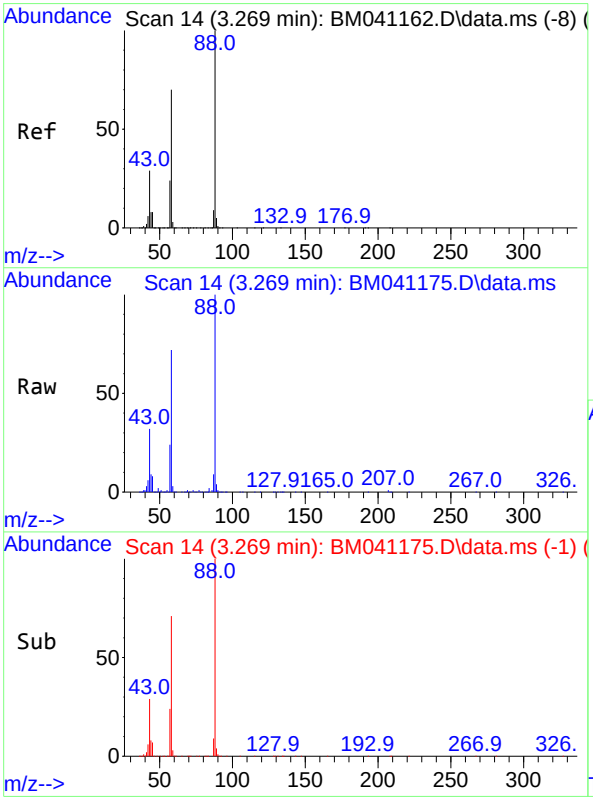
Ion	Ratio	Lower	Upper
152	100		
150	151.5	125.5	188.3
115	58.6	48.0	72.0



Instrument :
BNA_M
ClientSampleId :
SB-04-(1-5)MSD

Manual Integrations
APPROVED

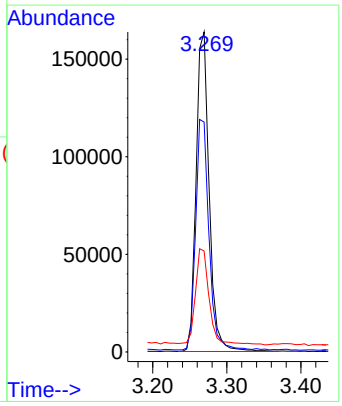
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

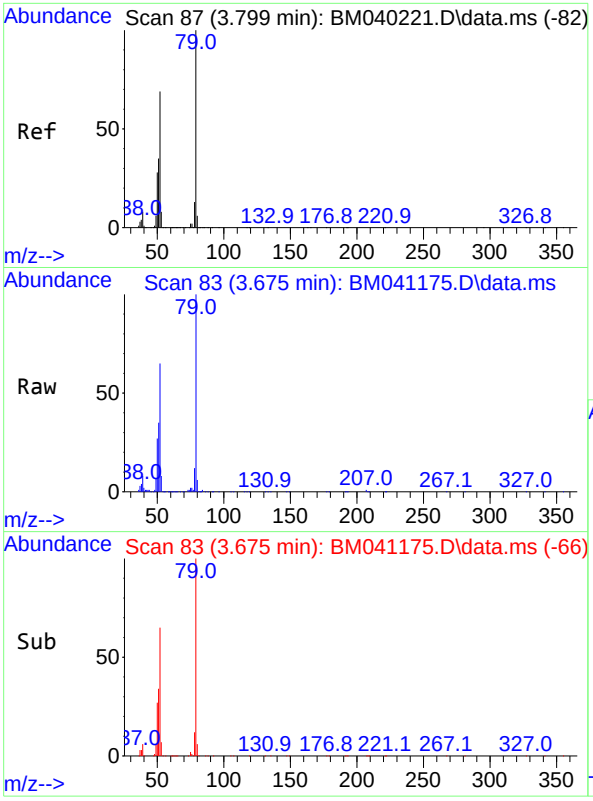


#2
1,4-Dioxane
Concen: 36.050 ng
RT: 3.269 min Scan# 14
Delta R.T. -0.000 min
Lab File: BM041175.D
Acq: 28 Jul 2023 21:00

Tgt Ion: 88 Resp: 199360

Ion	Ratio	Lower	Upper
88	100		
58	73.2	58.2	87.4
43	32.1	24.4	36.6

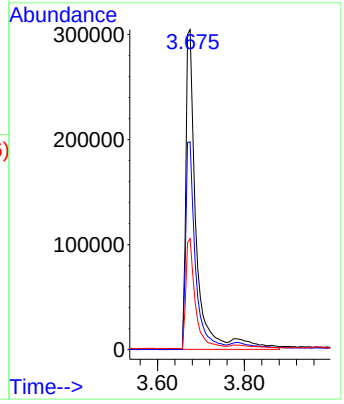




#3
Pyridine
Concen: 35.082 ng m
RT: 3.675 min Scan# 8
Delta R.T. -0.000 min
Lab File: BM041175.D
Acq: 28 Jul 2023 21:00

Tgt Ion: 79 Resp: 51011

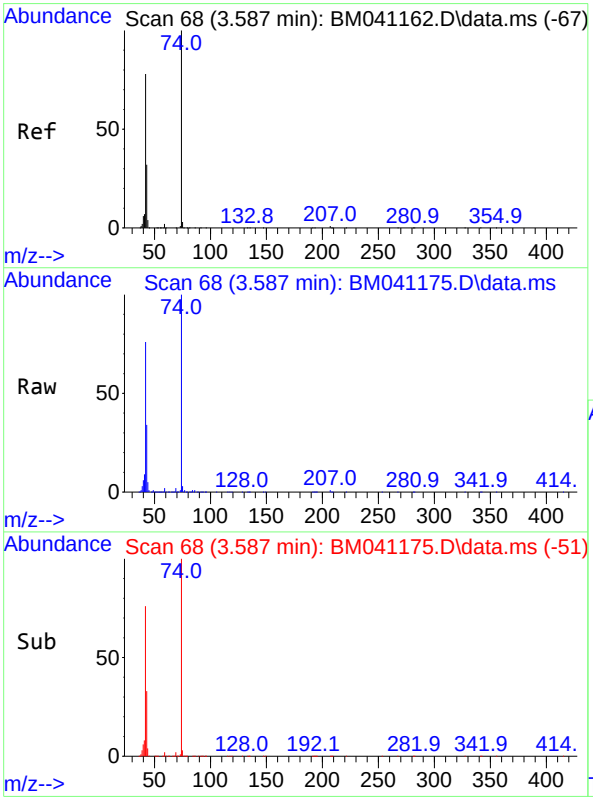
Ion	Ratio	Lower	Upper
79	100		
52	65.0	52.1	78.1
51	34.7	27.5	41.3



Instrument :
BNA_M
ClientSampleId :
SB-04-(1-5)MSD

Manual Integrations
APPROVED

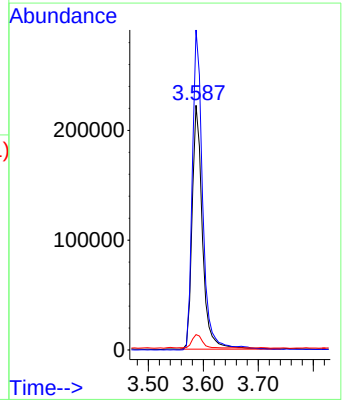
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

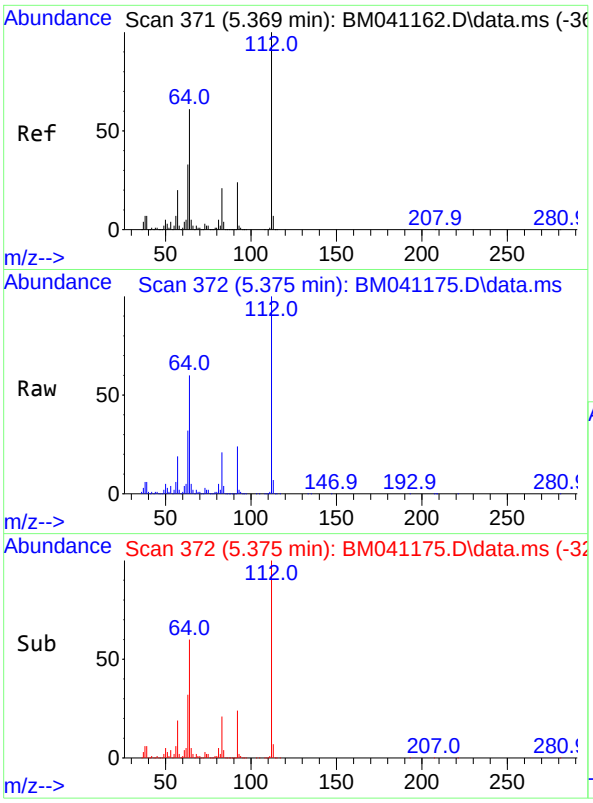


#4
n-Nitrosodimethylamine
Concen: 42.740 ng
RT: 3.587 min Scan# 68
Delta R.T. -0.000 min
Lab File: BM041175.D
Acq: 28 Jul 2023 21:00

Tgt Ion: 42 Resp: 287422

Ion	Ratio	Lower	Upper
42	100		
74	130.8	100.8	151.2
44	6.3	5.0	7.4





#5
2-Fluorophenol
Concen: 98.624 ng
RT: 5.375 min Scan# 3
Delta R.T. 0.006 min
Lab File: BM041175.D
Acq: 28 Jul 2023 21:00

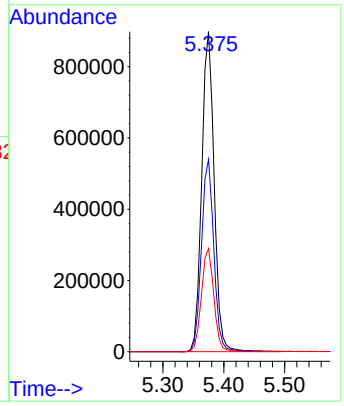
Tgt Ion:112 Resp: 127491

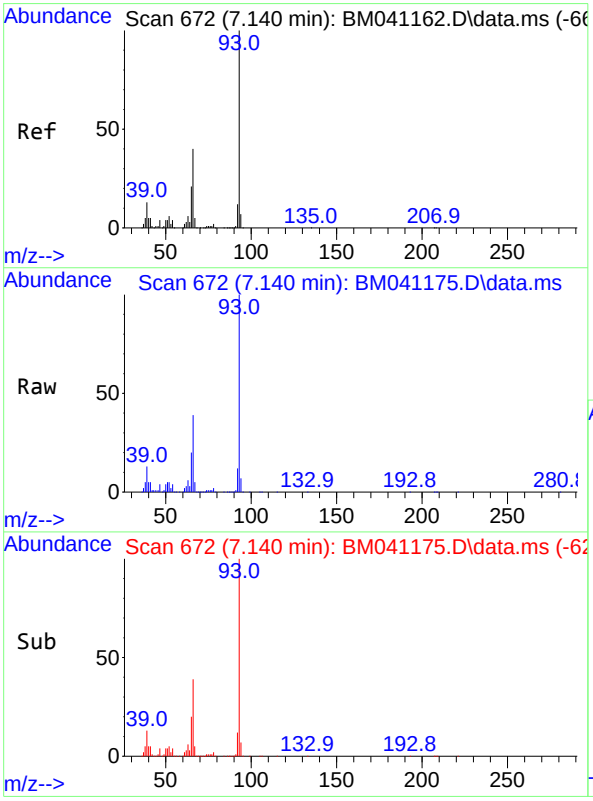
Ion	Ratio	Lower	Upper
112	100		
64	60.1	48.5	72.7
63	32.2	26.5	39.7

Instrument :
BNA_M
ClientSampleId :
SB-04-(1-5)MSD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

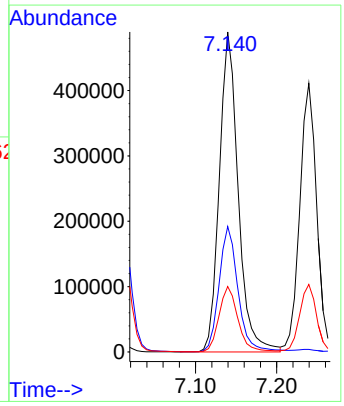


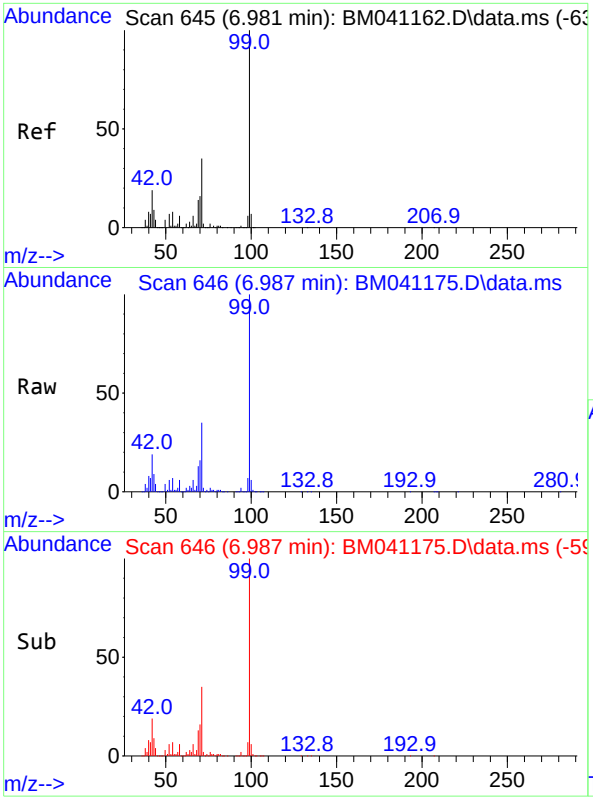


#6
Aniline
Concen: 40.339 ng
RT: 7.140 min Scan# 672
Delta R.T. -0.000 min
Lab File: BM041175.D
Acq: 28 Jul 2023 21:00

Tgt Ion: 93 Resp: 791045

Ion	Ratio	Lower	Upper
93	100		
66	39.2	32.0	48.0
65	20.4	16.6	24.8

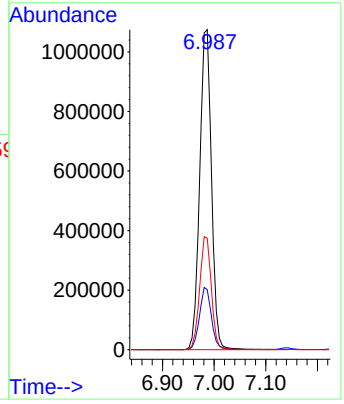




#7
Phenol-d6
Concen: 101.442 ng
RT: 6.987 min Scan# 64
Delta R.T. 0.006 min
Lab File: BM041175.D
Acq: 28 Jul 2023 21:00

Tgt Ion: 99 Resp: 169980

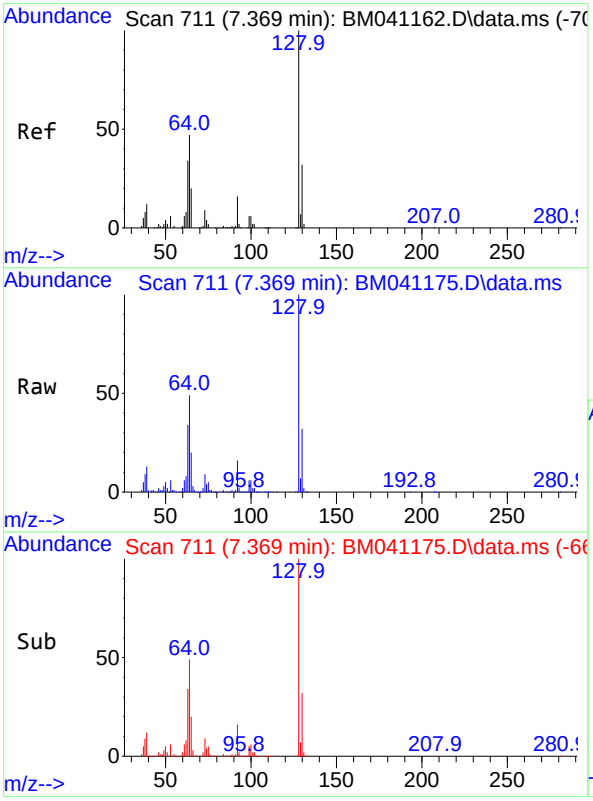
Ion	Ratio	Lower	Upper
99	100		
42	18.8	15.4	23.0
71	34.9	28.2	42.4



Instrument :
BNA_M
ClientSampleId :
SB-04-(1-5)MSD

Manual Integrations
APPROVED

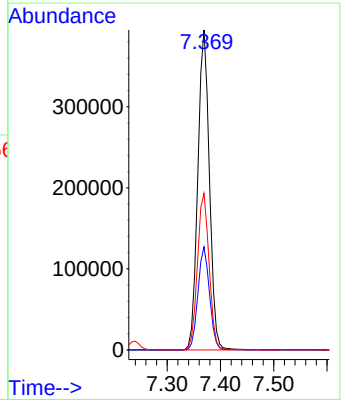
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

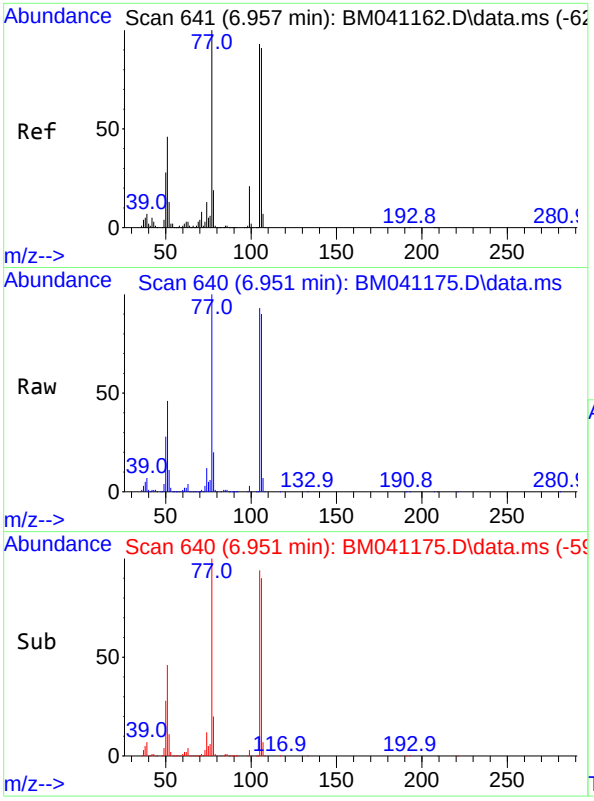


#8
2-Chlorophenol
Concen: 47.282 ng
RT: 7.369 min Scan# 711
Delta R.T. -0.000 min
Lab File: BM041175.D
Acq: 28 Jul 2023 21:00

Tgt Ion:128 Resp: 596694

Ion	Ratio	Lower	Upper
128	100		
130	32.2	12.3	52.3
64	49.0	29.3	69.3

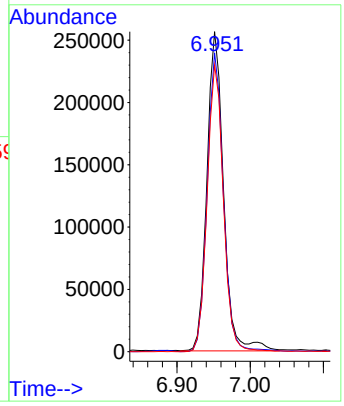




#9
Benzaldehyde
Concen: 45.682 ng m
RT: 6.951 min Scan# 64
Delta R.T. -0.006 min
Lab File: BM041175.D
Acq: 28 Jul 2023 21:00

Tgt Ion: 77 Resp: 40391

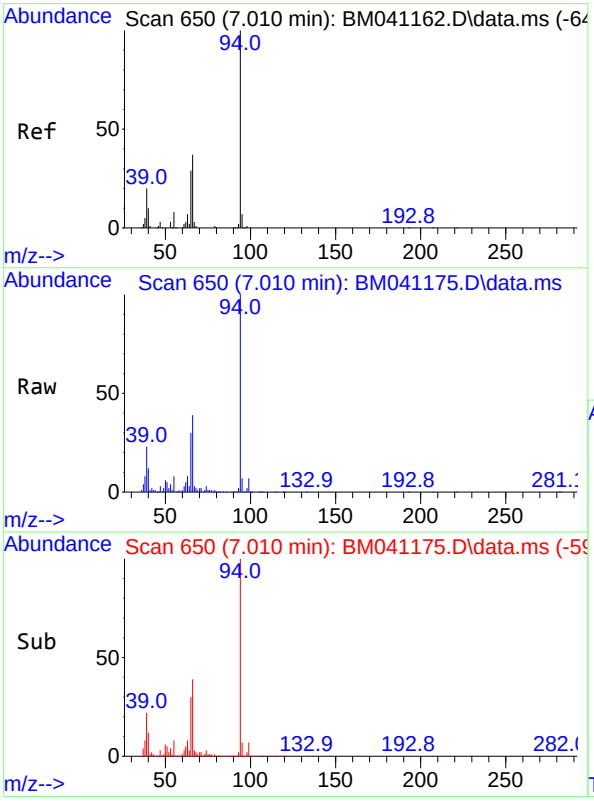
Ion	Ratio	Lower	Upper
77	100		
105	93.4	72.8	112.8
106	89.6	70.8	110.8



Instrument :
BNA_M
ClientSampleId :
SB-04-(1-5)MSD

Manual Integrations
APPROVED

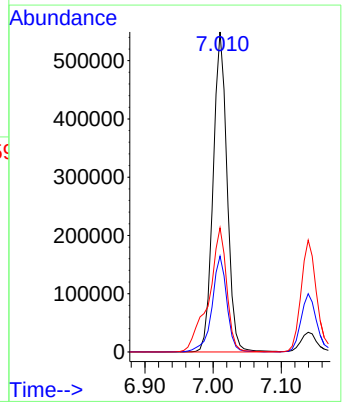
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

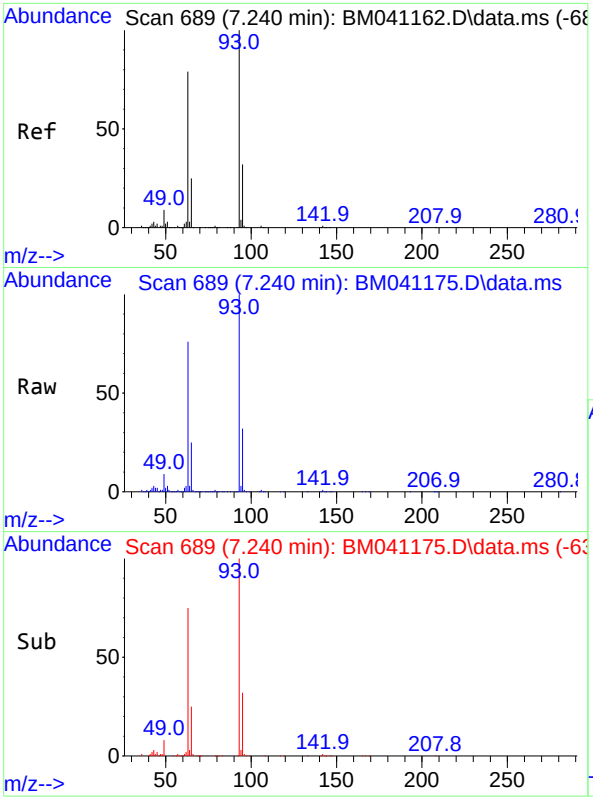


#10
Phenol
Concen: 48.377 ng
RT: 7.010 min Scan# 650
Delta R.T. -0.000 min
Lab File: BM041175.D
Acq: 28 Jul 2023 21:00

Tgt Ion: 94 Resp: 782933

Ion	Ratio	Lower	Upper
94	100		
65	30.0	9.5	49.5
66	38.8	18.0	58.0

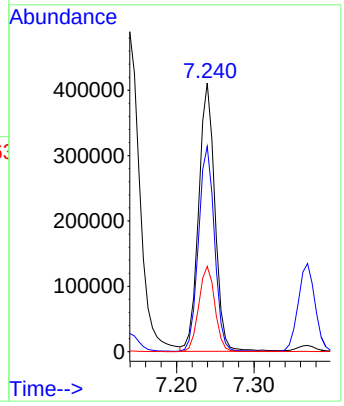




#11
bis(2-Chloroethyl)ether
Concen: 45.574 ng
RT: 7.240 min Scan# 6
Delta R.T. -0.000 min
Lab File: BM041175.D
Acq: 28 Jul 2023 21:00

Tgt Ion: 93 Resp: 59703

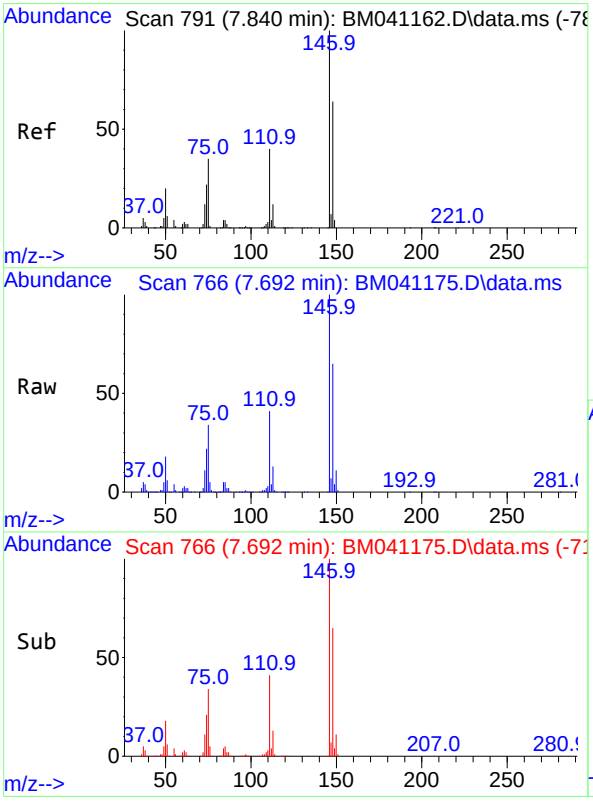
Ion	Ratio	Lower	Upper
93	100		
63	76.4	58.8	98.8
95	31.8	11.8	51.8



Instrument :
BNA_M
ClientSampleId :
SB-04-(1-5)MSD

Manual Integrations
APPROVED

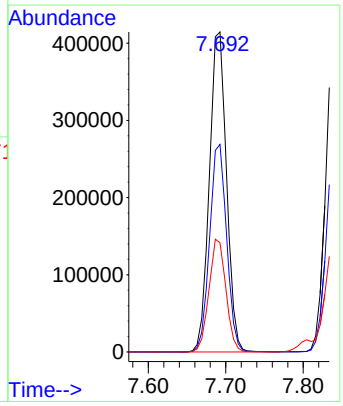
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

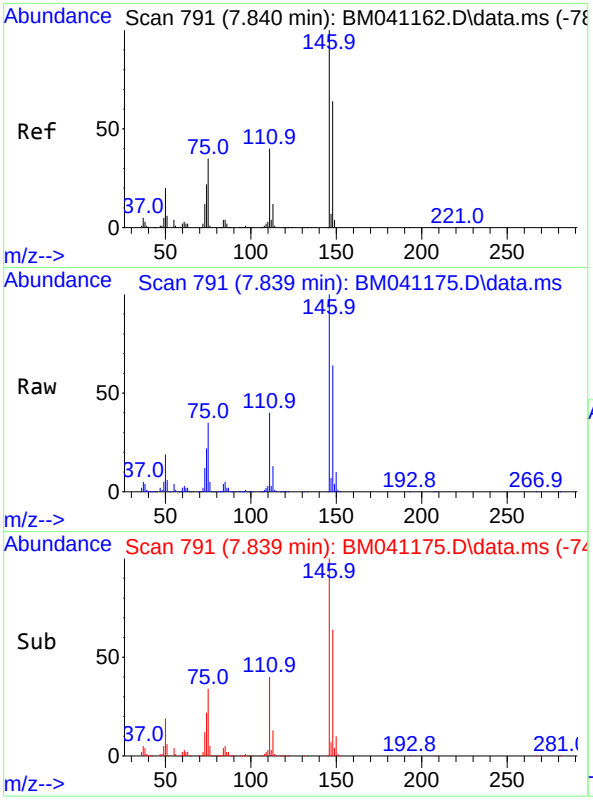


#12
1,3-Dichlorobenzene
Concen: 46.452 ng
RT: 7.692 min Scan# 766
Delta R.T. -0.000 min
Lab File: BM041175.D
Acq: 28 Jul 2023 21:00

Tgt Ion:146 Resp: 638108

Ion	Ratio	Lower	Upper
146	100		
148	64.9	51.9	77.9
75	34.1	28.3	42.5

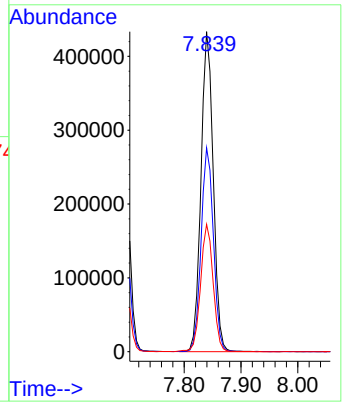




#13
1,4-Dichlorobenzene
Concen: 47.147 ng
RT: 7.839 min Scan# 7
Delta R.T. -0.000 min
Lab File: BM041175.D
Acq: 28 Jul 2023 21:00

Tgt Ion:146 Resp: 65097

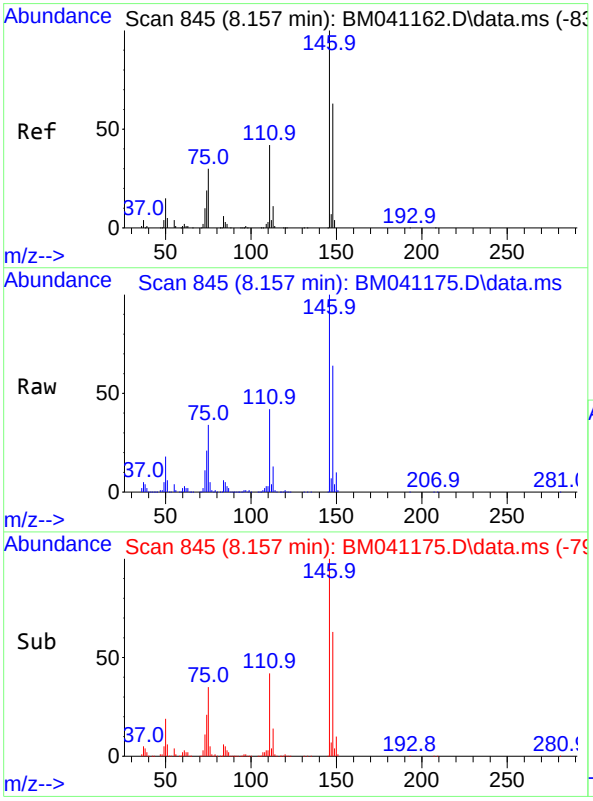
Ion	Ratio	Lower	Upper
146	100		
148	63.7	51.4	77.0
111	39.8	32.4	48.6



Instrument :
BNA_M
ClientSampleId :
SB-04-(1-5)MSD

Manual Integrations
APPROVED

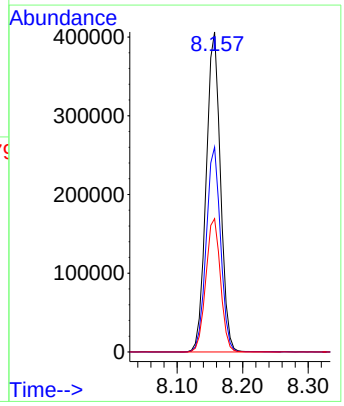
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

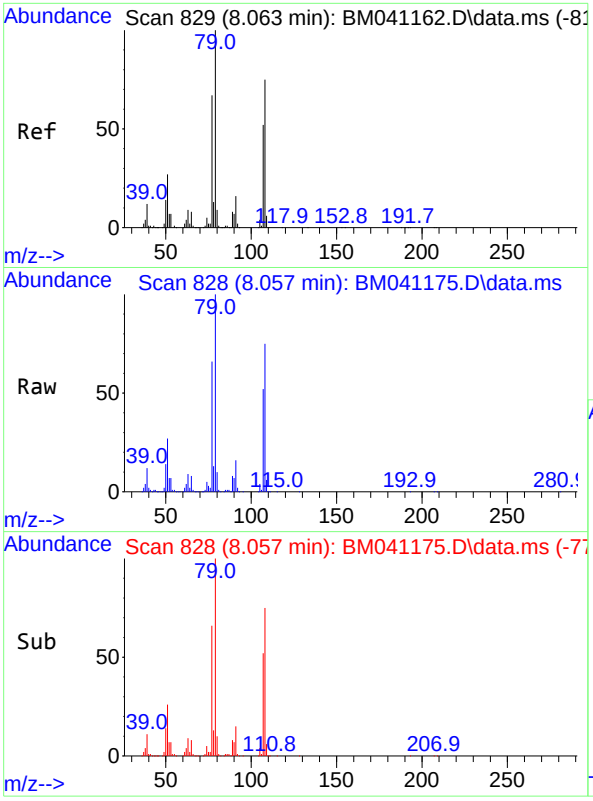


#14
1,2-Dichlorobenzene
Concen: 46.626 ng
RT: 8.157 min Scan# 845
Delta R.T. -0.000 min
Lab File: BM041175.D
Acq: 28 Jul 2023 21:00

Tgt Ion:146 Resp: 617270

Ion	Ratio	Lower	Upper
146	100		
148	64.0	50.9	76.3
111	41.7	33.8	50.6

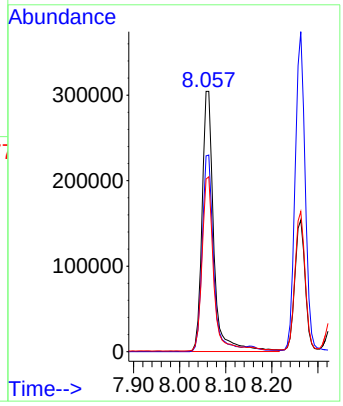




#15
Benzyl Alcohol
Concen: 51.036 ng
RT: 8.057 min Scan# 8
Delta R.T. -0.006 min
Lab File: BM041175.D
Acq: 28 Jul 2023 21:00

Tgt Ion: 79 Resp: 54006

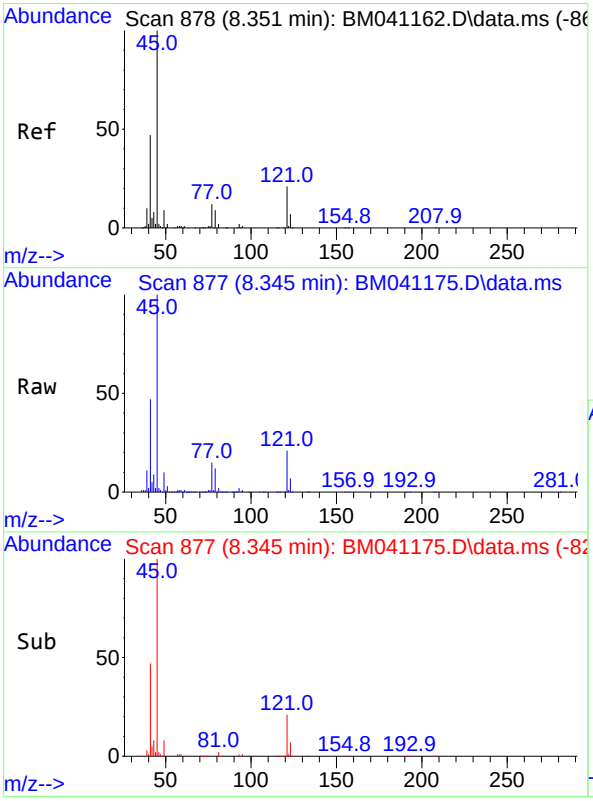
Ion	Ratio	Lower	Upper
79	100		
108	75.2	59.8	89.8
77	66.3	53.8	80.6



Instrument :
BNA_M
ClientSampleId :
SB-04-(1-5)MSD

Manual Integrations
APPROVED

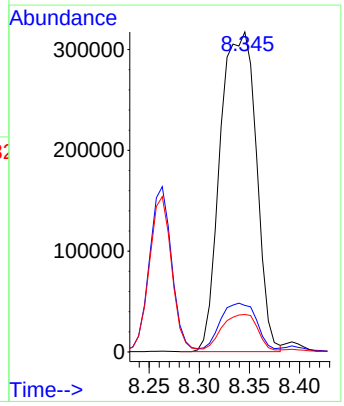
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

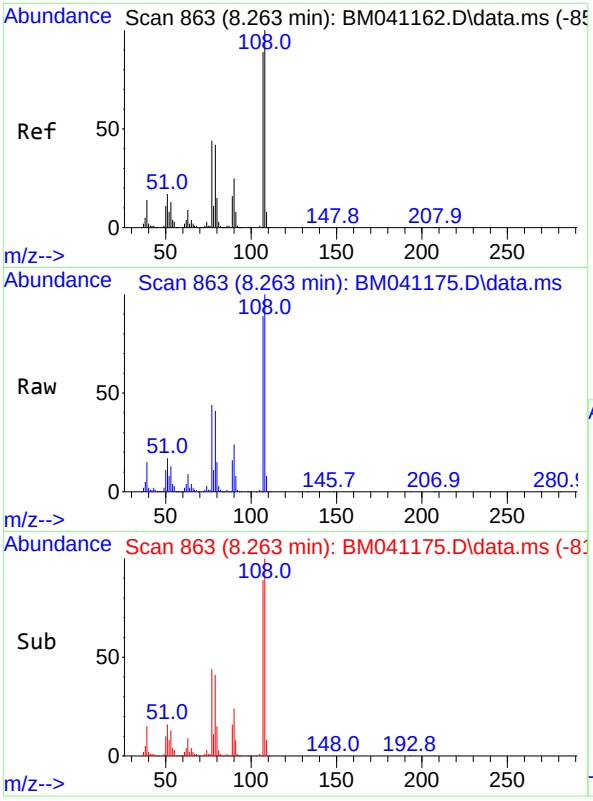


#16
2,2'-oxybis(1-Chloropropane)
Concen: 45.314 ng
RT: 8.345 min Scan# 877
Delta R.T. -0.006 min
Lab File: BM041175.D
Acq: 28 Jul 2023 21:00

Tgt Ion: 45 Resp: 790938

Ion	Ratio	Lower	Upper
45	100		
77	14.6	0.0	34.5
79	11.7	0.0	32.1

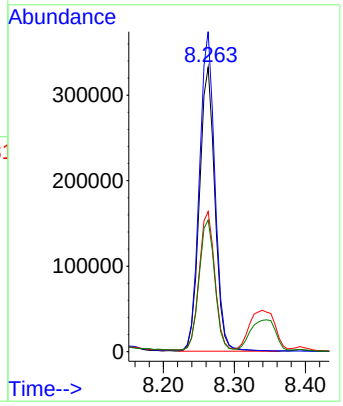




#17
2-Methylphenol
Concen: 45.459 ng
RT: 8.263 min Scan# 8
Delta R.T. -0.000 min
Lab File: BM041175.D
Acq: 28 Jul 2023 21:00

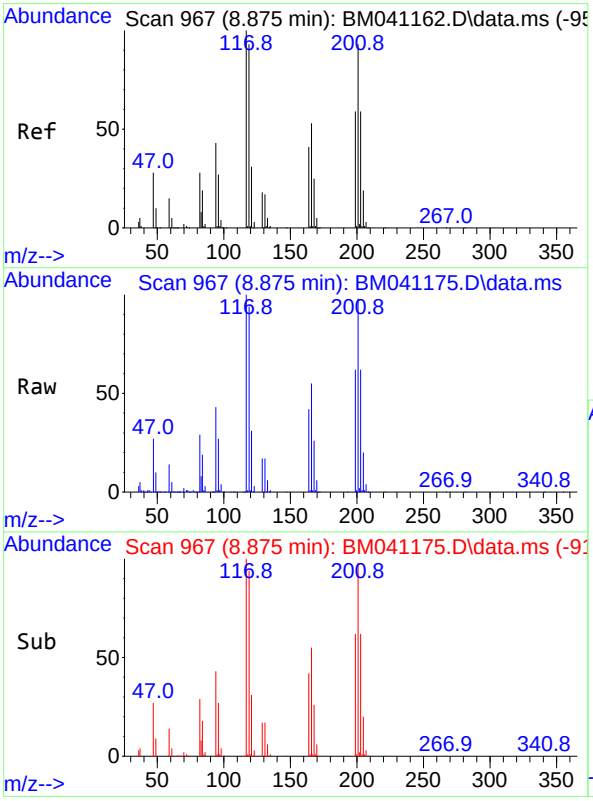
Tgt Ion:107 Resp: 50263

Ion	Ratio	Lower	Upper
107	100		
108	112.5	89.9	134.9
77	49.3	39.8	59.8
79	46.3	37.7	56.5



Instrument :
BNA_M
ClientSampleId :
SB-04-(1-5)MSD

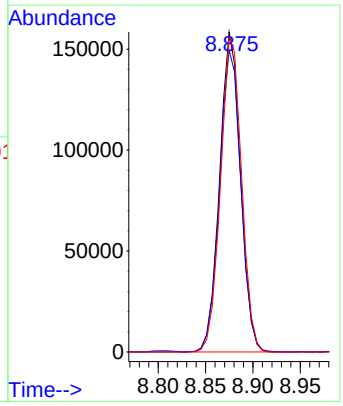
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

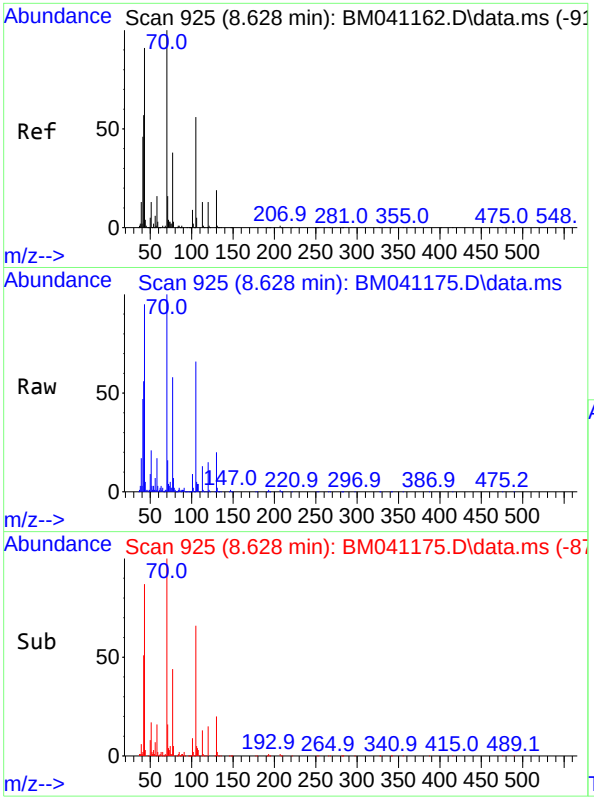


#18
Hexachloroethane
Concen: 47.297 ng
RT: 8.875 min Scan# 967
Delta R.T. -0.000 min
Lab File: BM041175.D
Acq: 28 Jul 2023 21:00

Tgt Ion:117 Resp: 243124

Ion	Ratio	Lower	Upper
117	100		
119	94.2	74.2	111.4
201	98.2	74.5	111.7

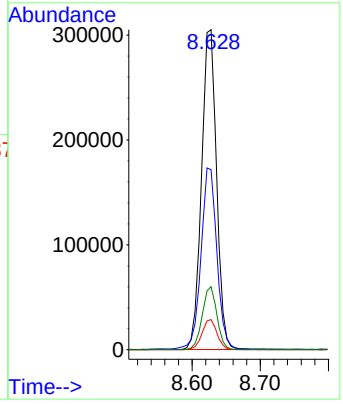




#19
n-Nitroso-di-n-propylamine
Concen: 46.078 ng
RT: 8.628 min Scan# 9
Delta R.T. -0.000 min
Lab File: BM041175.D
Acq: 28 Jul 2023 21:00

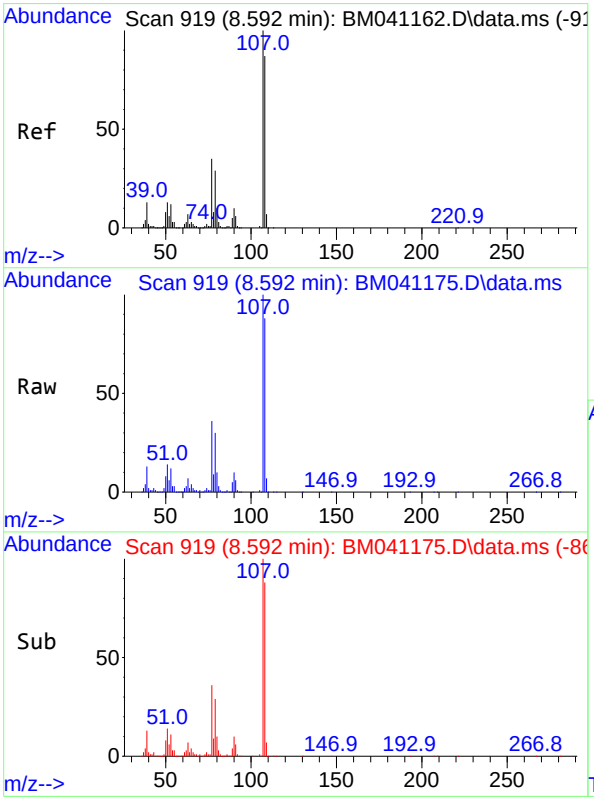
Tgt Ion: 70 Resp: 46896

Ion	Ratio	Lower	Upper
70	100		
42	56.3	45.8	68.8
101	9.4	7.4	11.0
130	19.7	15.2	22.8



Instrument :
BNA_M
ClientSampleId :
SB-04-(1-5)MSD

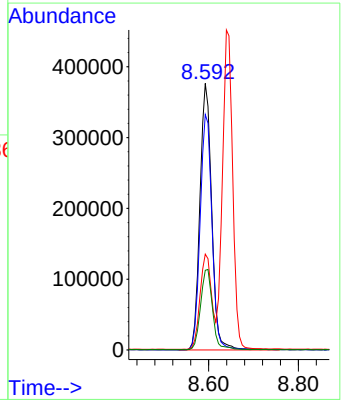
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

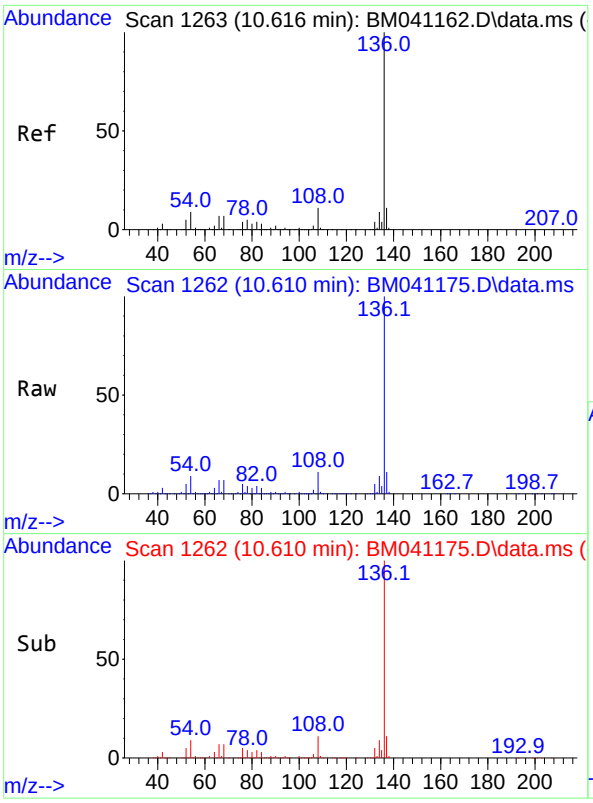


#20
3+4-Methylphenols
Concen: 46.383 ng
RT: 8.592 min Scan# 919
Delta R.T. -0.000 min
Lab File: BM041175.D
Acq: 28 Jul 2023 21:00

Tgt Ion:107 Resp: 685703

Ion	Ratio	Lower	Upper
107	100		
108	88.3	67.2	107.2
77	36.0	15.4	55.4
79	29.9	9.2	49.2

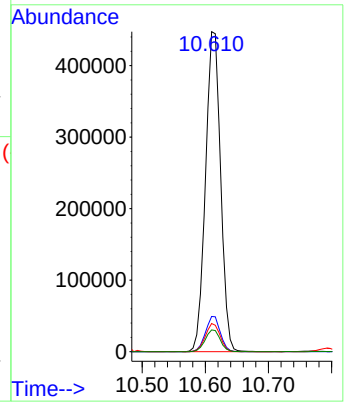




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.610 min Scan# 1
Delta R.T. -0.006 min
Lab File: BM041175.D
Acq: 28 Jul 2023 21:00

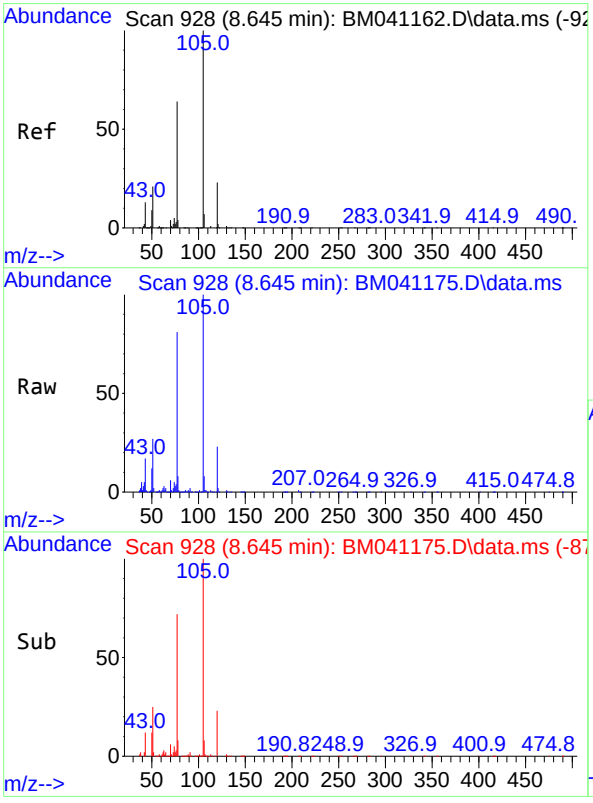
Tgt Ion:136 Resp: 74155

Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.8	13.2
54	8.8	6.9	10.3
68	6.8	5.4	8.2



Instrument :
BNA_M
ClientSampleId :
SB-04-(1-5)MSD

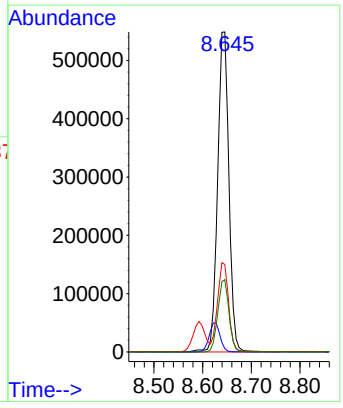
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

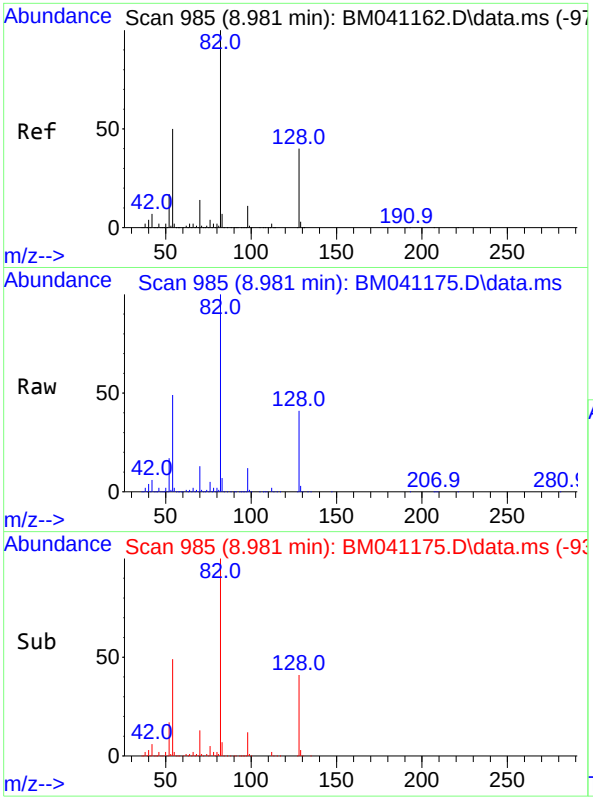


#22
Acetophenone
Concen: 45.063 ng
RT: 8.645 min Scan# 928
Delta R.T. -0.000 min
Lab File: BM041175.D
Acq: 28 Jul 2023 21:00

Tgt Ion:105 Resp: 885028

Ion	Ratio	Lower	Upper
105	100		
71	1.0	1.2	1.8#
51	27.4	22.0	33.0
120	22.6	18.0	27.0

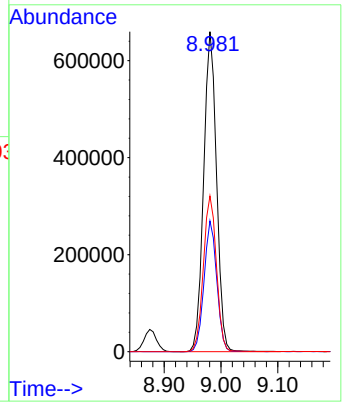




#23
Nitrobenzene-d5
Concen: 65.120 ng
RT: 8.981 min Scan# 9
Delta R.T. -0.000 min
Lab File: BM041175.D
Acq: 28 Jul 2023 21:00

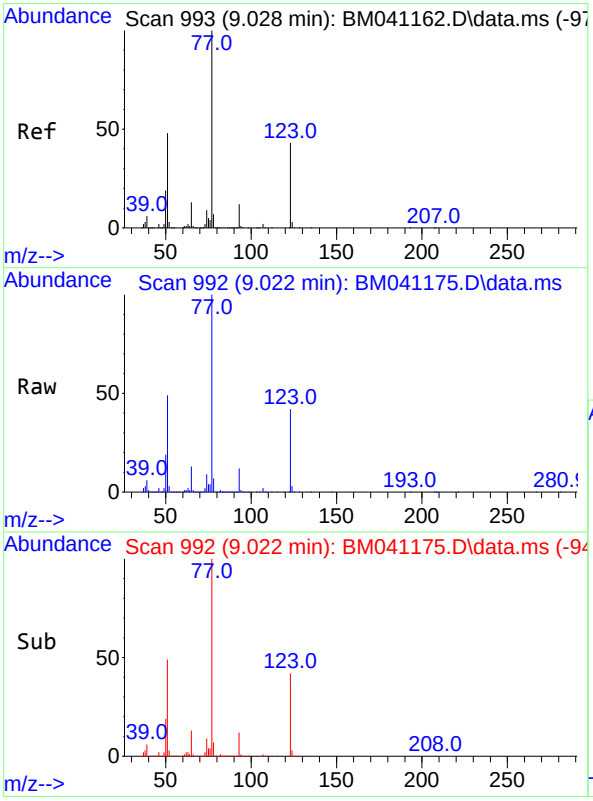
Tgt Ion: 82 Resp: 103840

Ion	Ratio	Lower	Upper
82	100		
128	40.9	31.8	47.6
54	48.6	40.1	60.1



Instrument :
BNA_M
ClientSampleId :
SB-04-(1-5)MSD

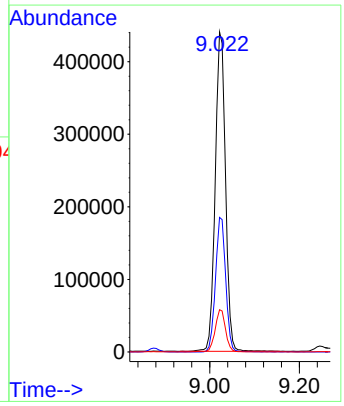
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

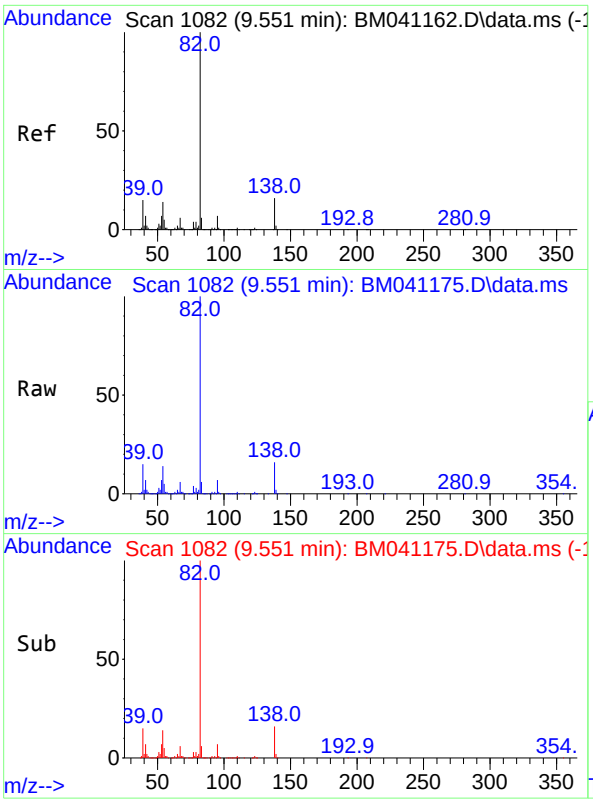


#24
Nitrobenzene
Concen: 43.294 ng
RT: 9.022 min Scan# 992
Delta R.T. -0.006 min
Lab File: BM041175.D
Acq: 28 Jul 2023 21:00

Tgt Ion: 77 Resp: 698142

Ion	Ratio	Lower	Upper
77	100		
123	42.1	34.2	51.2
65	13.2	10.7	16.1

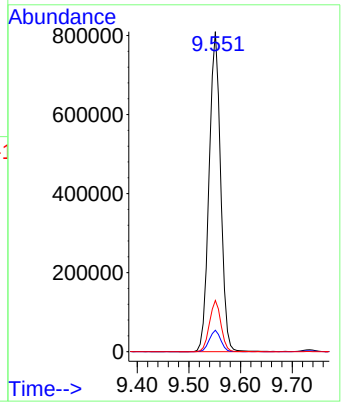




#25
Isophorone
Concen: 46.307 ng
RT: 9.551 min Scan# 1
Delta R.T. -0.000 min
Lab File: BM041175.D
Acq: 28 Jul 2023 21:00

Tgt Ion: 82 Resp: 125344

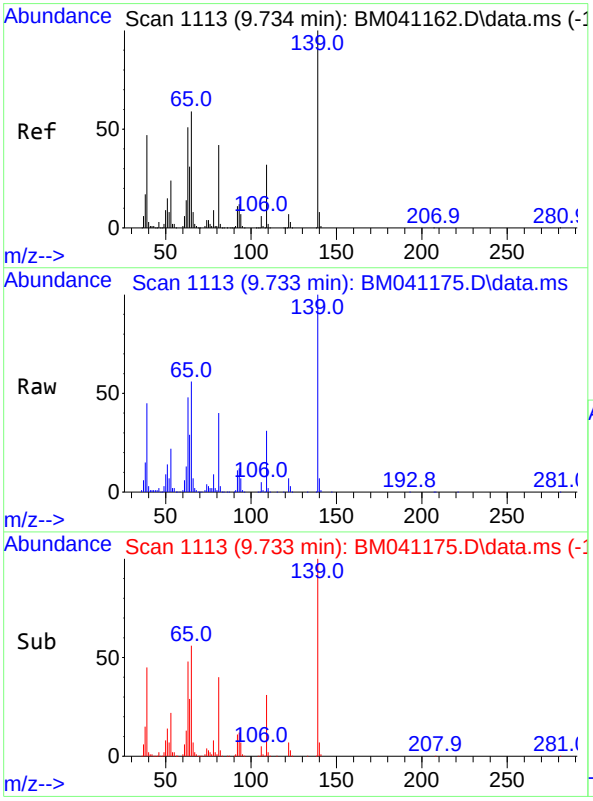
Ion	Ratio	Lower	Upper
82	100		
95	6.7	5.3	7.9
138	16.0	12.8	19.2



Instrument :
BNA_M
ClientSampleId :
SB-04-(1-5)MSD

Manual Integrations
APPROVED

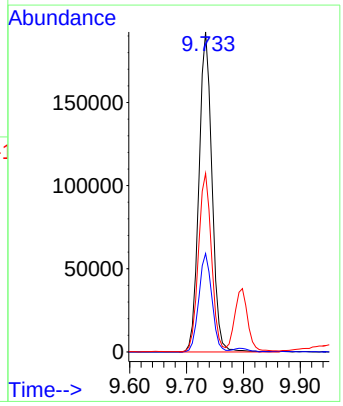
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

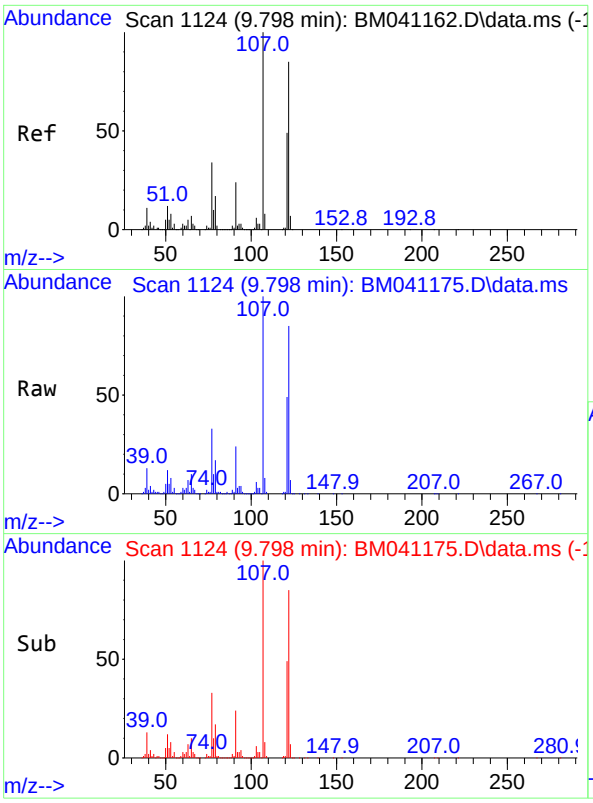


#26
2-Nitrophenol
Concen: 48.698 ng
RT: 9.733 min Scan# 1113
Delta R.T. -0.000 min
Lab File: BM041175.D
Acq: 28 Jul 2023 21:00

Tgt Ion:139 Resp: 306987

Ion	Ratio	Lower	Upper
139	100		
109	30.8	25.4	38.2
65	55.8	47.2	70.8

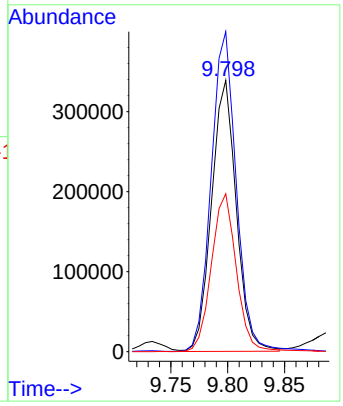




#27
2,4-Dimethylphenol
Concen: 46.261 ng
RT: 9.798 min Scan# 11
Delta R.T. -0.000 min
Lab File: BM041175.D
Acq: 28 Jul 2023 21:00

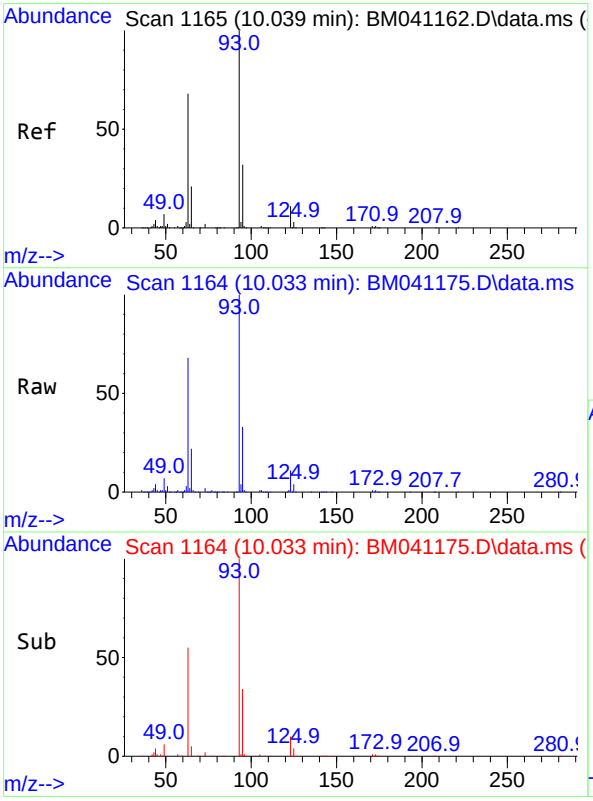
Tgt Ion:122 Resp: 51316

Ion	Ratio	Lower	Upper
122	100		
107	118.0	94.3	141.5
121	58.2	45.8	68.8



Instrument :
BNA_M
ClientSampleId :
SB-04-(1-5)MSD

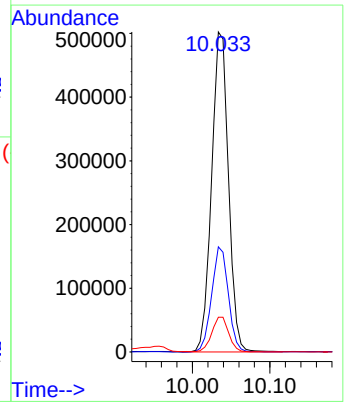
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

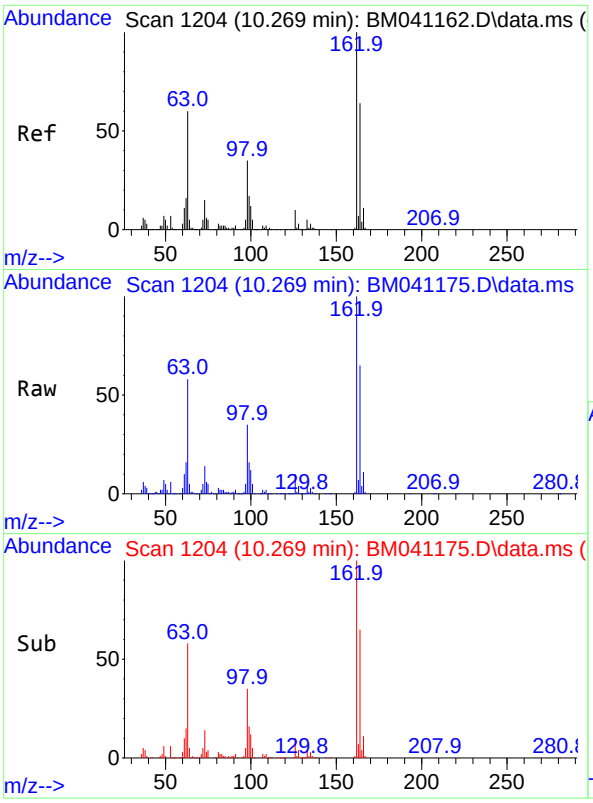


#28
bis(2-Chloroethoxy)methane
Concen: 44.798 ng
RT: 10.033 min Scan# 1164
Delta R.T. -0.006 min
Lab File: BM041175.D
Acq: 28 Jul 2023 21:00

Tgt Ion: 93 Resp: 759574

Ion	Ratio	Lower	Upper
93	100		
95	32.9	25.9	38.9
123	10.9	9.1	13.7

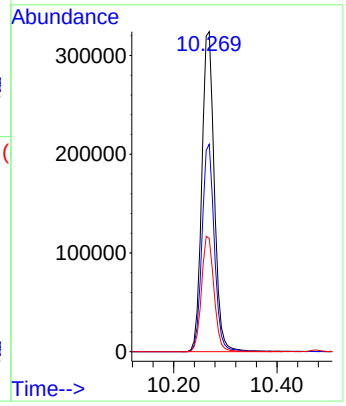




#29
2,4-Dichlorophenol
Concen: 48.599 ng
RT: 10.269 min Scan# 1
Delta R.T. -0.000 min
Lab File: BM041175.D
Acq: 28 Jul 2023 21:00

Tgt Ion:162 Resp: 54365

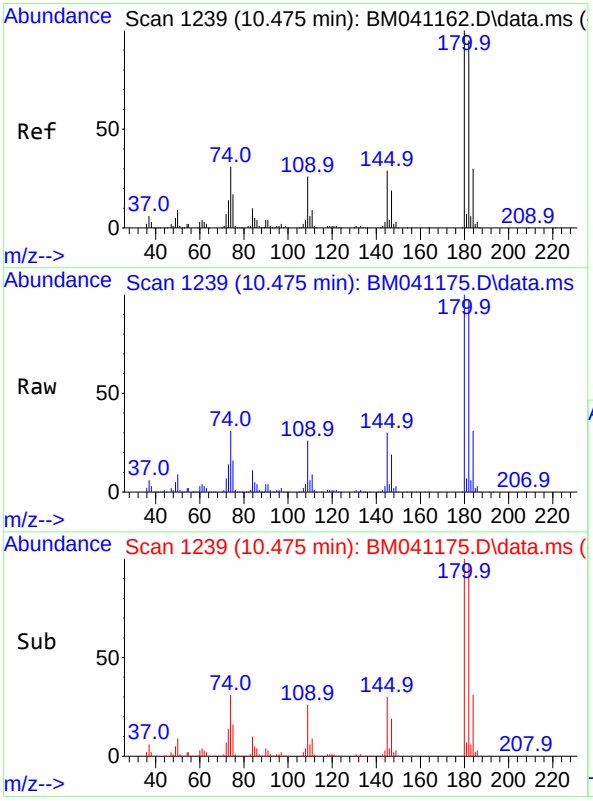
Ion	Ratio	Lower	Upper
162	100		
164	64.9	44.3	84.3
98	35.4	15.1	55.1



Instrument :
BNA_M
ClientSampleId :
SB-04-(1-5)MSD

Manual Integrations
APPROVED

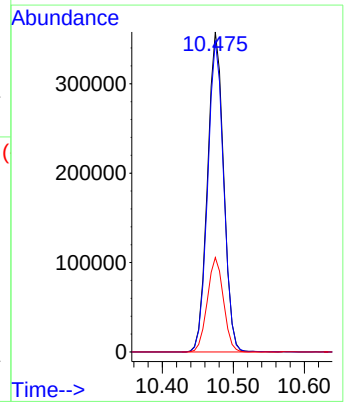
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

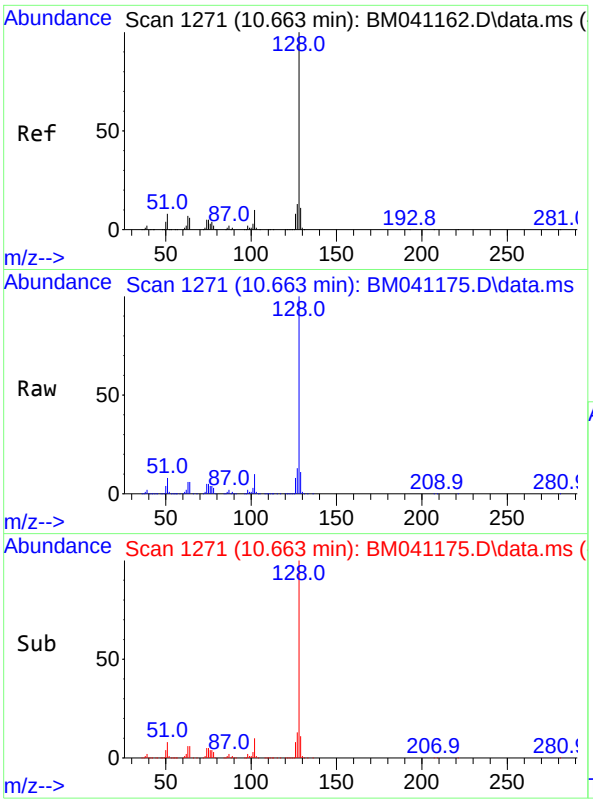


#30
1,2,4-Trichlorobenzene
Concen: 45.704 ng
RT: 10.475 min Scan# 1239
Delta R.T. -0.000 min
Lab File: BM041175.D
Acq: 28 Jul 2023 21:00

Tgt Ion:180 Resp: 564872

Ion	Ratio	Lower	Upper
180	100		
182	97.3	75.9	113.9
145	29.5	23.6	35.4

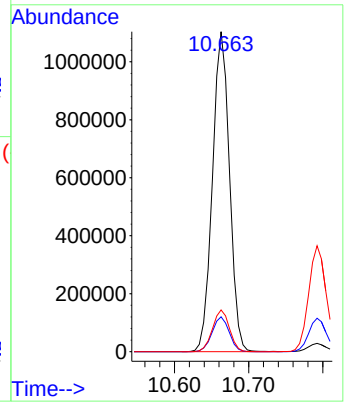




#31
Naphthalene
Concen: 43.810 ng
RT: 10.663 min Scan# 1
Delta R.T. -0.000 min
Lab File: BM041175.D
Acq: 28 Jul 2023 21:00

Tgt Ion:128 Resp: 176295

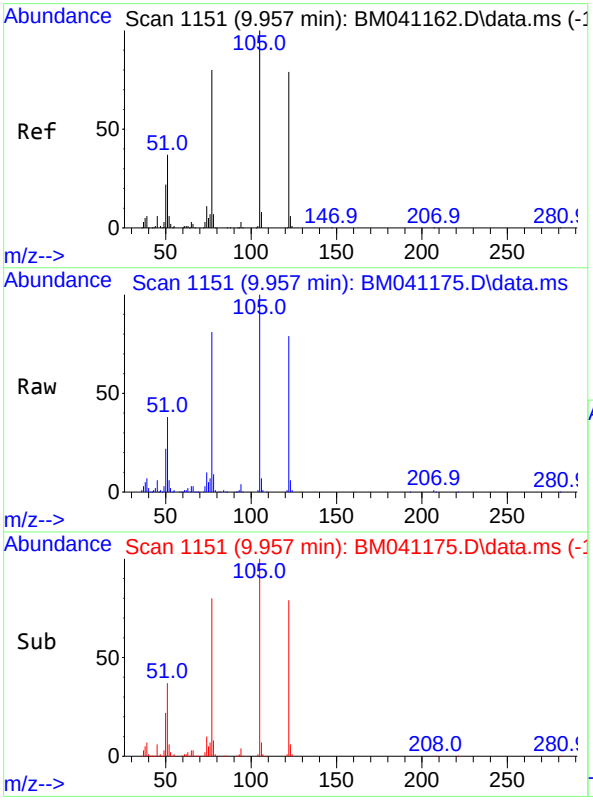
Ion	Ratio	Lower	Upper
128	100		
129	10.9	9.0	13.4
127	13.1	10.5	15.7



Instrument :
BNA_M
ClientSampleId :
SB-04-(1-5)MSD

Manual Integrations
APPROVED

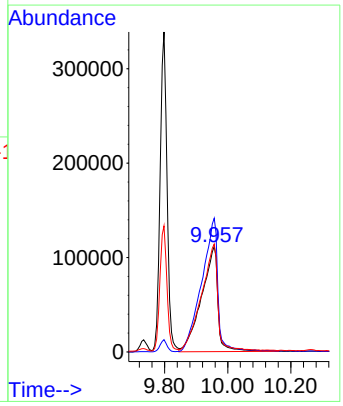
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

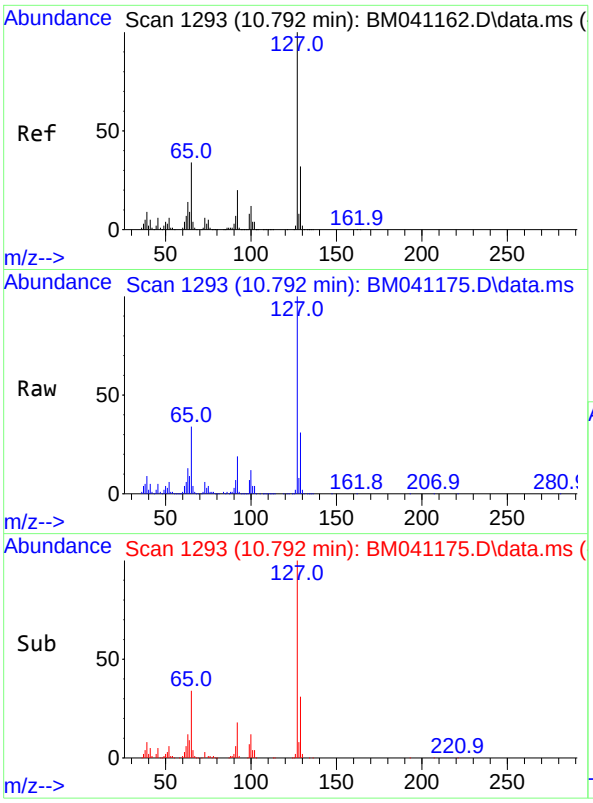


#32
Benzoic acid
Concen: 48.279 ng
RT: 9.957 min Scan# 1151
Delta R.T. 0.000 min
Lab File: BM041175.D
Acq: 28 Jul 2023 21:00

Tgt Ion:122 Resp: 402637

Ion	Ratio	Lower	Upper
122	100		
105	126.8	104.0	144.0
77	102.3	79.9	119.9

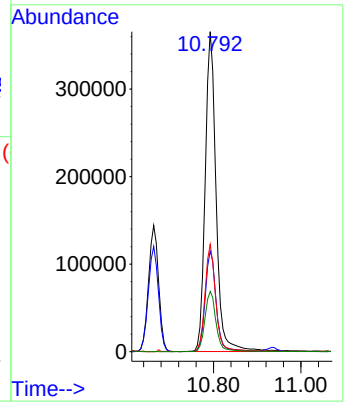




#33
4-Chloroaniline
Concen: 39.517 ng
RT: 10.792 min Scan# 1
Delta R.T. -0.000 min
Lab File: BM041175.D
Acq: 28 Jul 2023 21:00

Tgt Ion:127 Resp: 63549

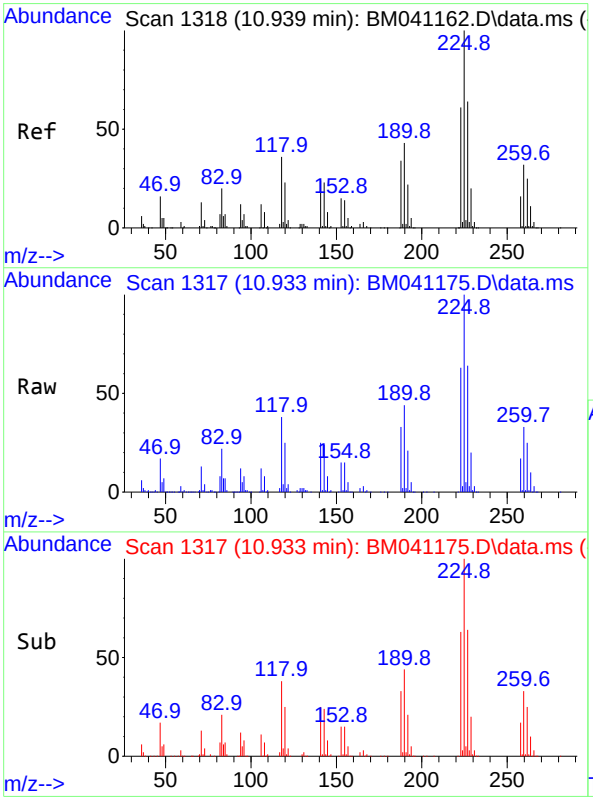
Ion	Ratio	Lower	Upper
127	100		
129	31.5	25.9	38.9
65	33.6	26.9	40.3
92	18.8	15.8	23.6



Instrument :
BNA_M
ClientSampleId :
SB-04-(1-5)MSD

Manual Integrations
APPROVED

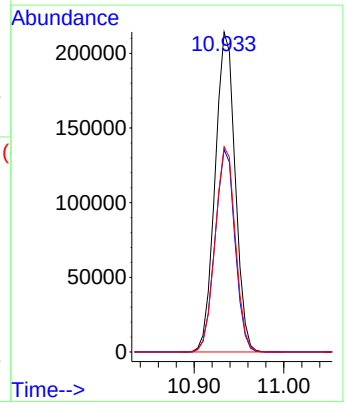
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

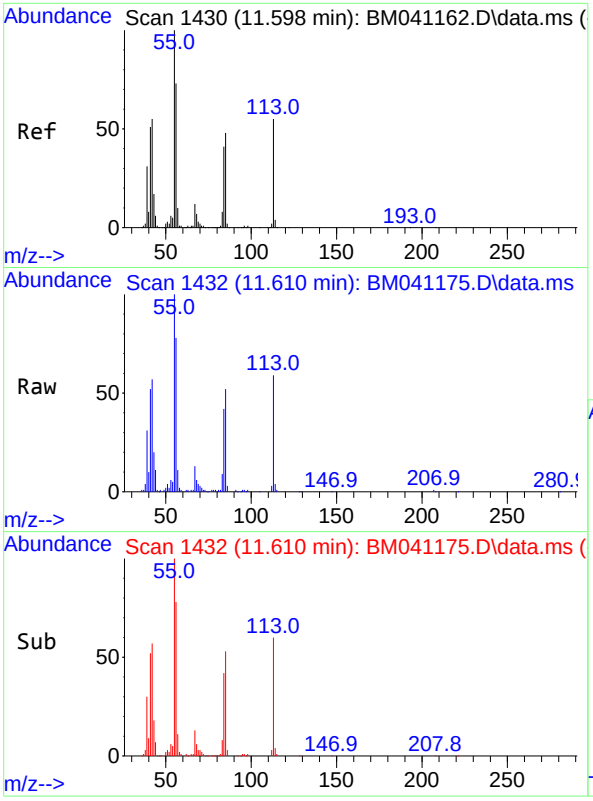


#34
Hexachlorobutadiene
Concen: 44.793 ng
RT: 10.933 min Scan# 1317
Delta R.T. -0.006 min
Lab File: BM041175.D
Acq: 28 Jul 2023 21:00

Tgt Ion:225 Resp: 332959

Ion	Ratio	Lower	Upper
225	100		
223	63.2	49.0	73.4
227	64.1	50.8	76.2

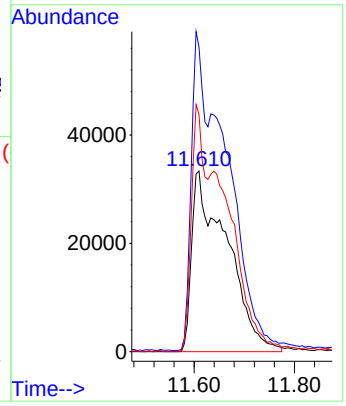




#35
Caprolactam
Concen: 50.187 ng m
RT: 11.610 min Scan# 14
Delta R.T. 0.012 min
Lab File: BM041175.D
Acq: 28 Jul 2023 21:00

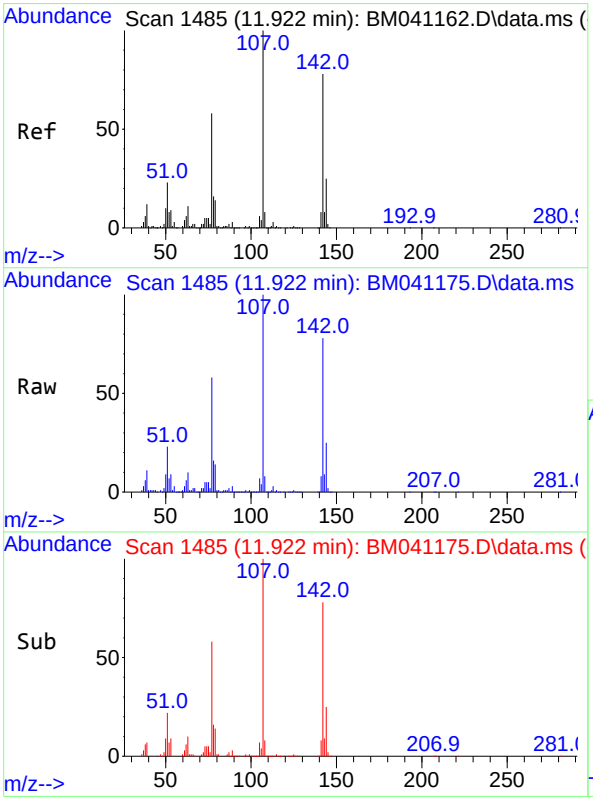
Tgt Ion:113 Resp: 16240

Ion	Ratio	Lower	Upper
113	100		
55	168.7	162.5	202.5
56	131.3	114.1	154.1



Instrument :
BNA_M
ClientSampleId :
SB-04-(1-5)MSD

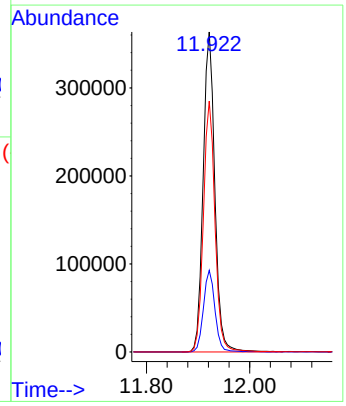
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

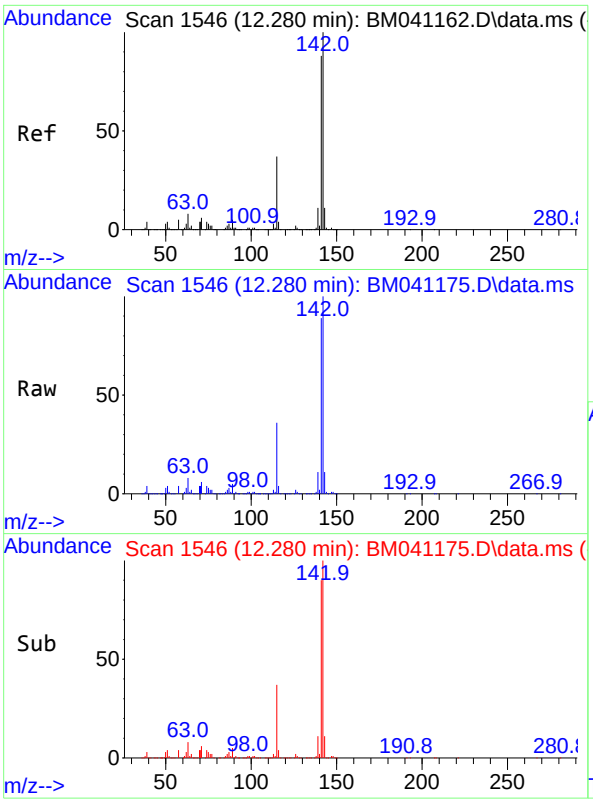


#36
4-Chloro-3-methylphenol
Concen: 48.360 ng
RT: 11.922 min Scan# 1485
Delta R.T. -0.000 min
Lab File: BM041175.D
Acq: 28 Jul 2023 21:00

Tgt Ion:107 Resp: 569391

Ion	Ratio	Lower	Upper
107	100		
144	25.5	20.1	30.1
142	78.4	62.2	93.4

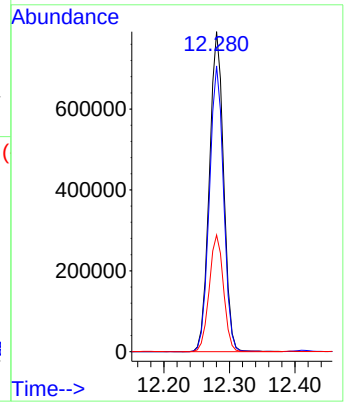




#37
2-Methylnaphthalene
Concen: 44.180 ng
RT: 12.280 min Scan# 1
Delta R.T. -0.000 min
Lab File: BM041175.D
Acq: 28 Jul 2023 21:00

Tgt Ion:142 Resp: 119858

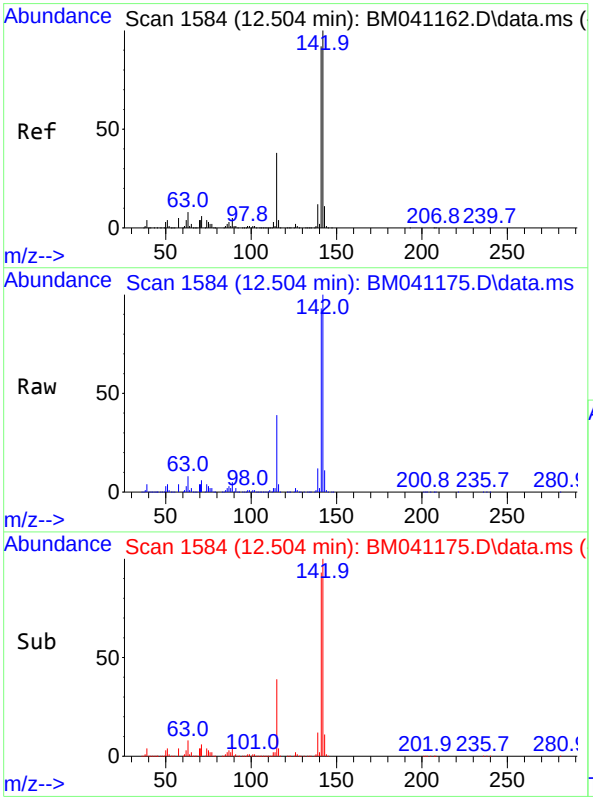
Ion	Ratio	Lower	Upper
142	100		
141	89.3	70.7	106.1
115	36.4	29.3	43.9



Instrument :
BNA_M
ClientSampleId :
SB-04-(1-5)MSD

Manual Integrations
APPROVED

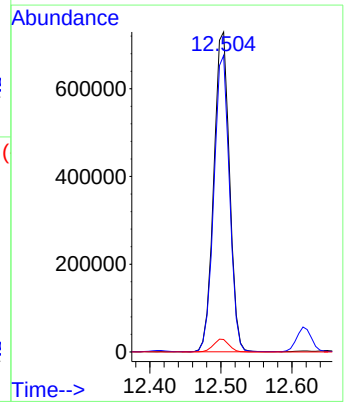
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

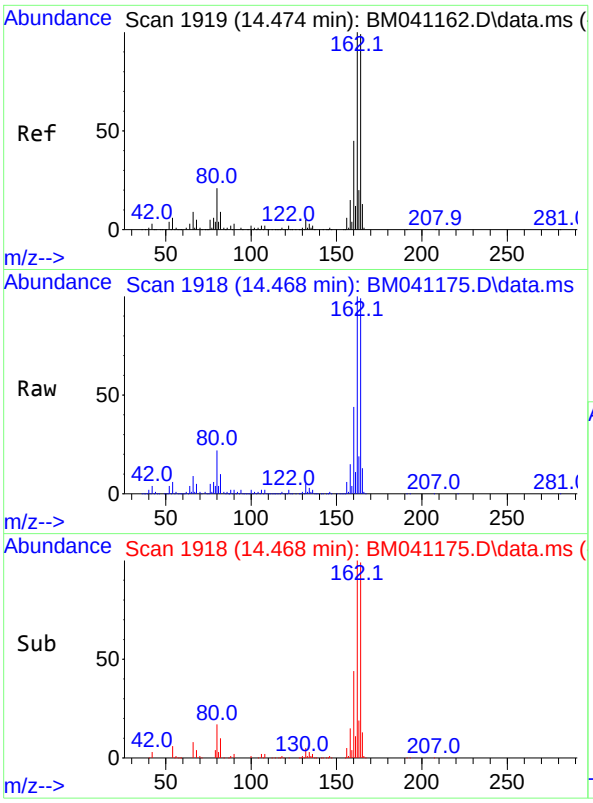


#38
1-Methylnaphthalene
Concen: 44.091 ng
RT: 12.504 min Scan# 1584
Delta R.T. -0.000 min
Lab File: BM041175.D
Acq: 28 Jul 2023 21:00

Tgt Ion:142 Resp: 1119548

Ion	Ratio	Lower	Upper
142	100		
141	92.7	73.4	110.2
116	3.9	3.2	4.8

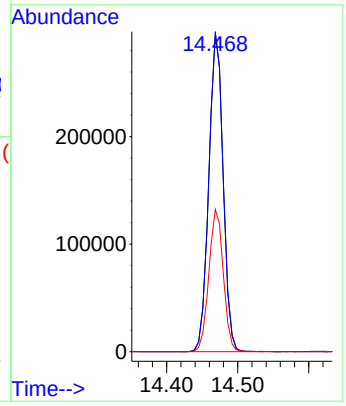




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.468 min Scan# 1
Delta R.T. -0.006 min
Lab File: BM041175.D
Acq: 28 Jul 2023 21:00

Tgt Ion:164 Resp: 41332

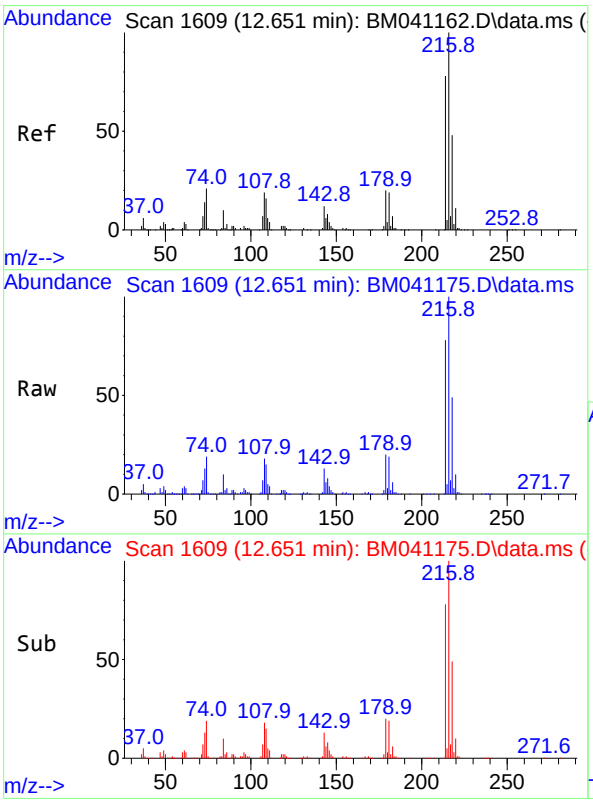
Ion	Ratio	Lower	Upper
164	100		
162	100.8	80.4	120.6
160	44.8	36.2	54.2



Instrument :
BNA_M
ClientSampleId :
SB-04-(1-5)MSD

Manual Integrations
APPROVED

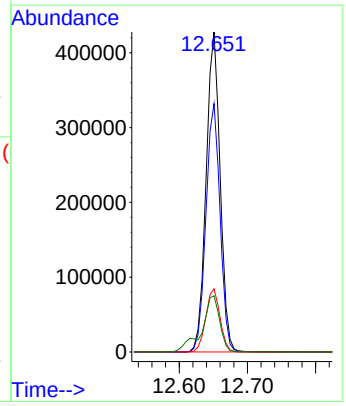
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

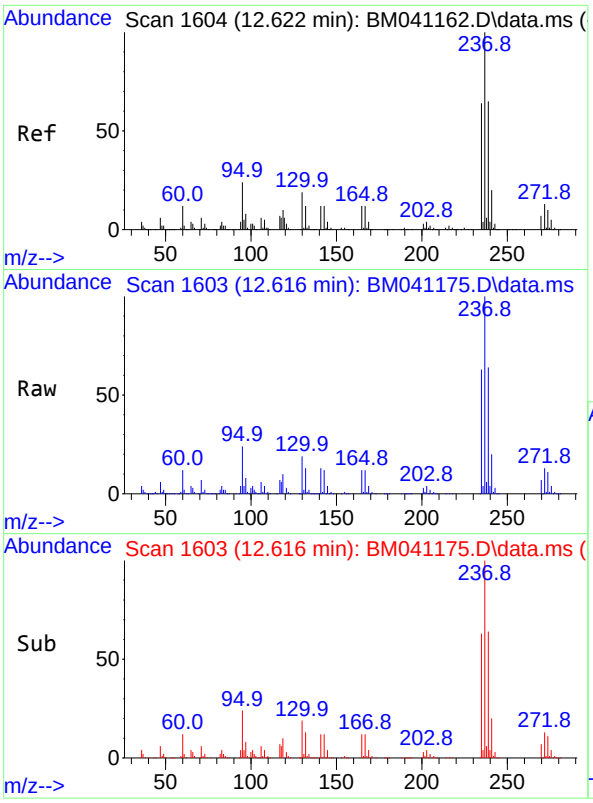


#40
1,2,4,5-Tetrachlorobenzene
Concen: 45.631 ng
RT: 12.651 min Scan# 1609
Delta R.T. -0.000 min
Lab File: BM041175.D
Acq: 28 Jul 2023 21:00

Tgt Ion:216 Resp: 612424

Ion	Ratio	Lower	Upper
216	100		
214	78.2	63.2	94.8
179	20.0	16.2	24.2
108	22.4	17.0	25.4

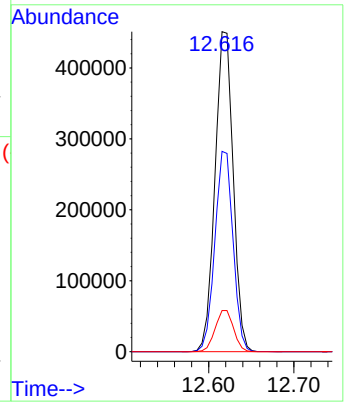




#41
Hexachlorocyclopentadiene
Concen: 94.099 ng
RT: 12.616 min Scan# 1
Delta R.T. -0.006 min
Lab File: BM041175.D
Acq: 28 Jul 2023 21:00

Tgt Ion:237 Resp: 66814

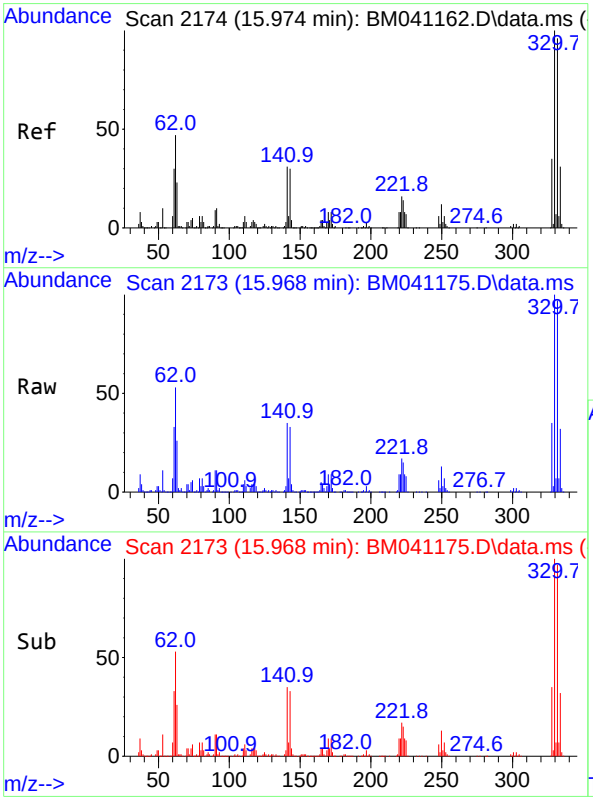
Ion	Ratio	Lower	Upper
237	100		
235	62.6	43.6	83.6
272	12.9	0.0	33.3



Instrument :
BNA_M
ClientSampleId :
SB-04-(1-5)MSD

Manual Integrations
APPROVED

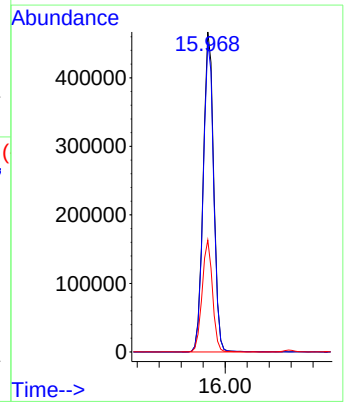
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

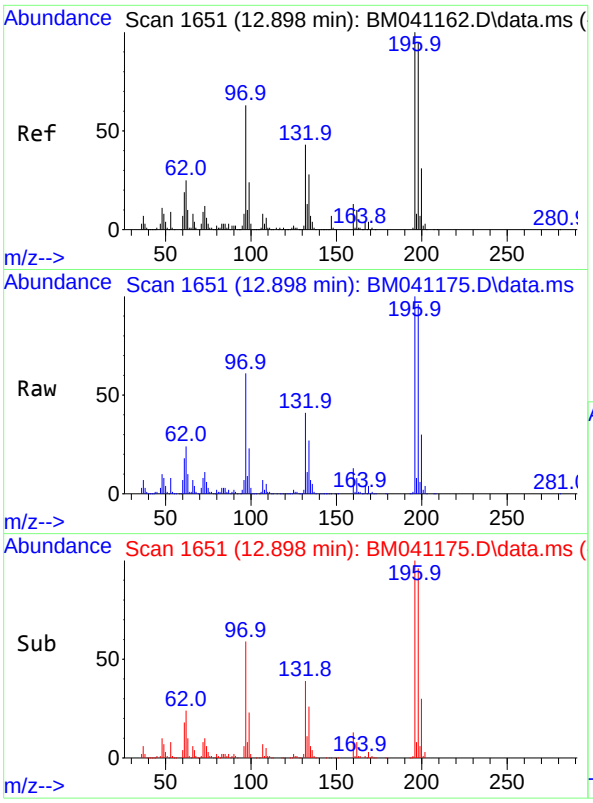


#42
2,4,6-Tribromophenol
Concen: 105.996 ng
RT: 15.968 min Scan# 2173
Delta R.T. -0.006 min
Lab File: BM041175.D
Acq: 28 Jul 2023 21:00

Tgt Ion:330 Resp: 619684

Ion	Ratio	Lower	Upper
330	100		
332	96.8	77.7	116.5
141	34.6	28.3	42.5

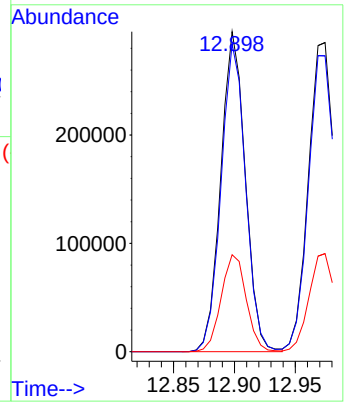




#43
2,4,6-Trichlorophenol
Concen: 48.090 ng
RT: 12.898 min Scan# 1
Delta R.T. -0.000 min
Lab File: BM041175.D
Acq: 28 Jul 2023 21:00

Tgt Ion:196 Resp: 41368

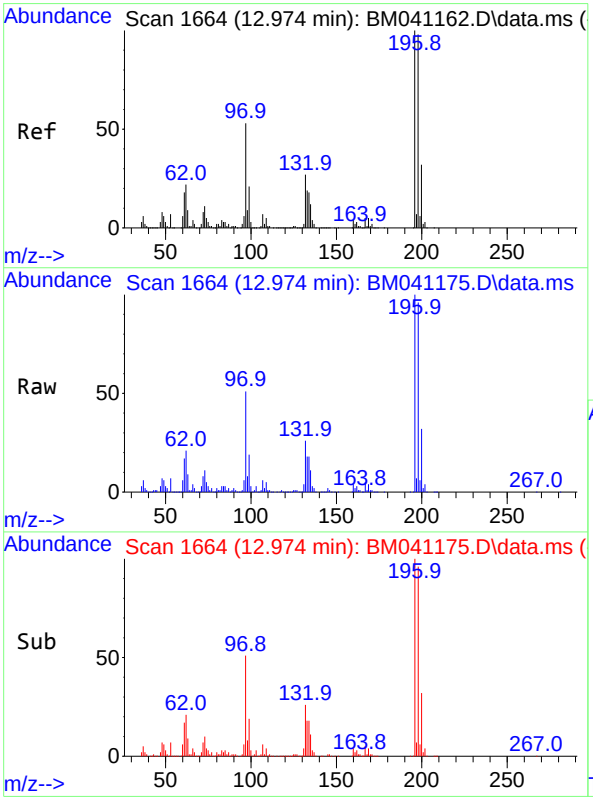
Ion	Ratio	Lower	Upper
196	100		
198	96.2	76.2	114.4
200	30.3	24.6	36.8



Instrument :
BNA_M
ClientSampleId :
SB-04-(1-5)MSD

Manual Integrations
APPROVED

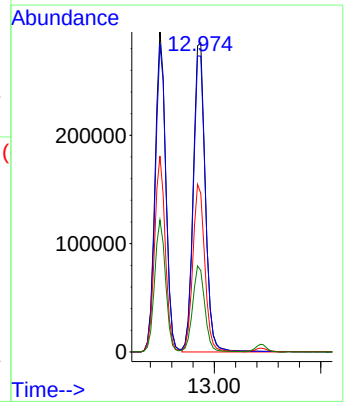
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

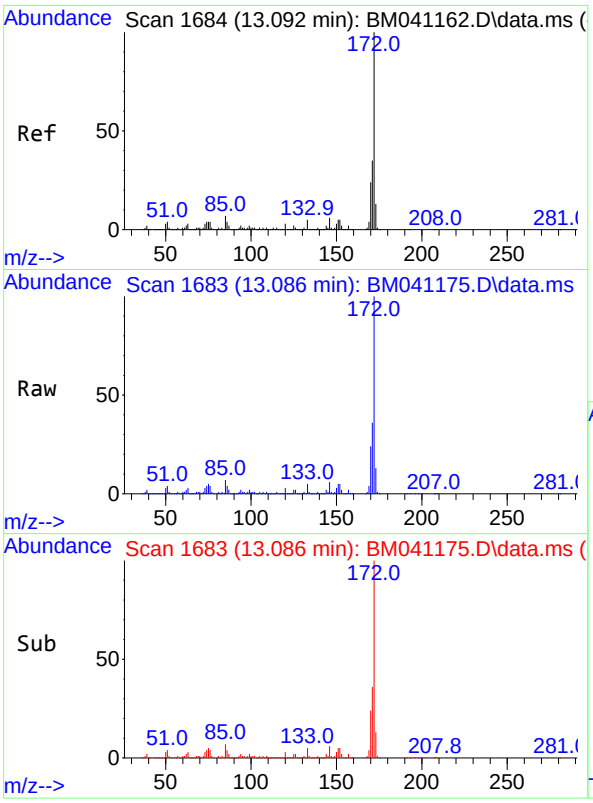


#44
2,4,5-Trichlorophenol
Concen: 45.216 ng
RT: 12.974 min Scan# 1664
Delta R.T. 0.000 min
Lab File: BM041175.D
Acq: 28 Jul 2023 21:00

Tgt Ion:196 Resp: 450192

Ion	Ratio	Lower	Upper
196	100		
198	95.7	78.2	117.4
97	51.3	42.7	64.1
132	26.4	21.6	32.4

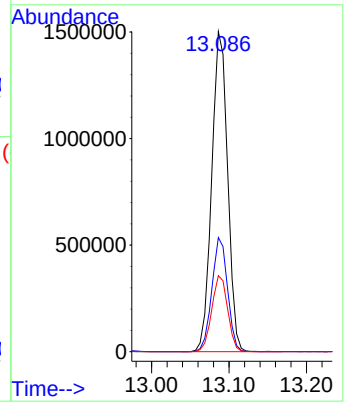




#45
2-Fluorobiphenyl
Concen: 65.345 ng
RT: 13.086 min Scan# 1
Delta R.T. -0.006 min
Lab File: BM041175.D
Acq: 28 Jul 2023 21:00

Tgt Ion:172 Resp: 213806

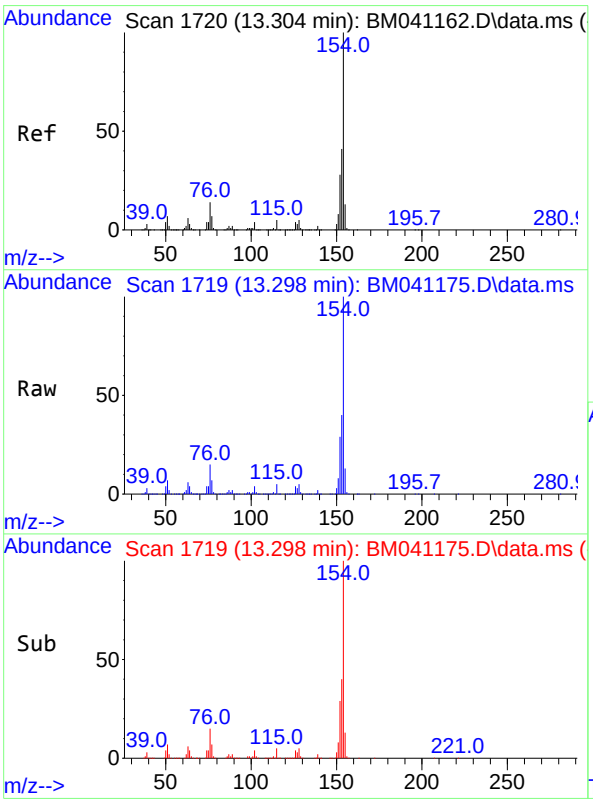
Ion	Ratio	Lower	Upper
172	100		
171	35.6	28.1	42.1
170	23.7	18.9	28.3



Instrument :
BNA_M
ClientSampleId :
SB-04-(1-5)MSD

Manual Integrations
APPROVED

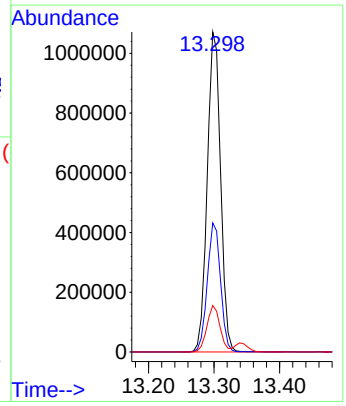
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

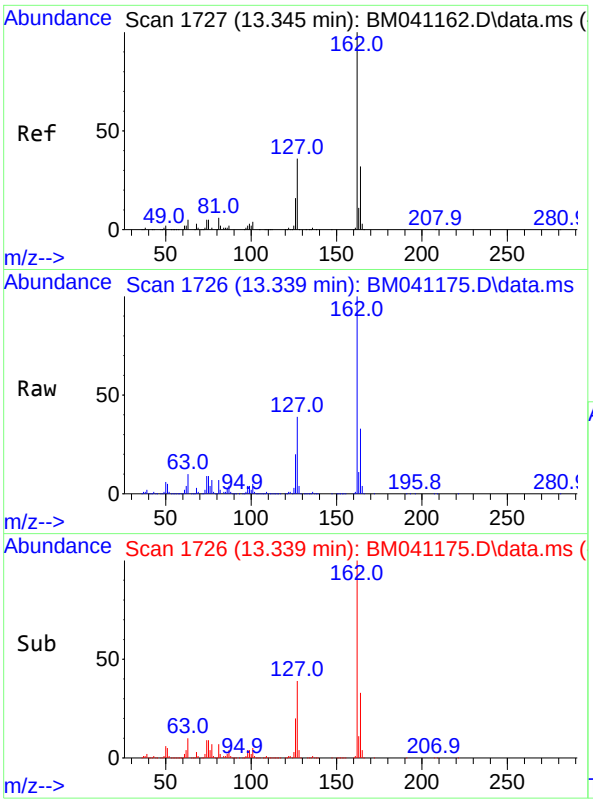


#46
1,1'-Biphenyl
Concen: 45.209 ng
RT: 13.298 min Scan# 1719
Delta R.T. -0.006 min
Lab File: BM041175.D
Acq: 28 Jul 2023 21:00

Tgt Ion:154 Resp: 1514855

Ion	Ratio	Lower	Upper
154	100		
153	40.3	20.5	60.5
76	14.5	0.0	34.1

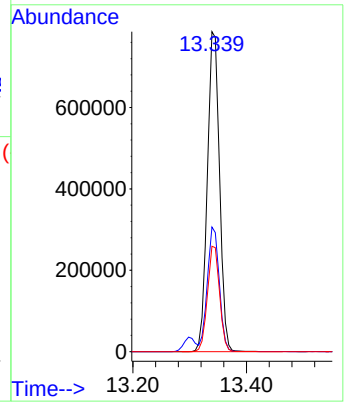




#47
2-Chloronaphthalene
Concen: 46.641 ng
RT: 13.339 min Scan# 1
Delta R.T. -0.006 min
Lab File: BM041175.D
Acq: 28 Jul 2023 21:00

Tgt Ion:162 Resp: 116692

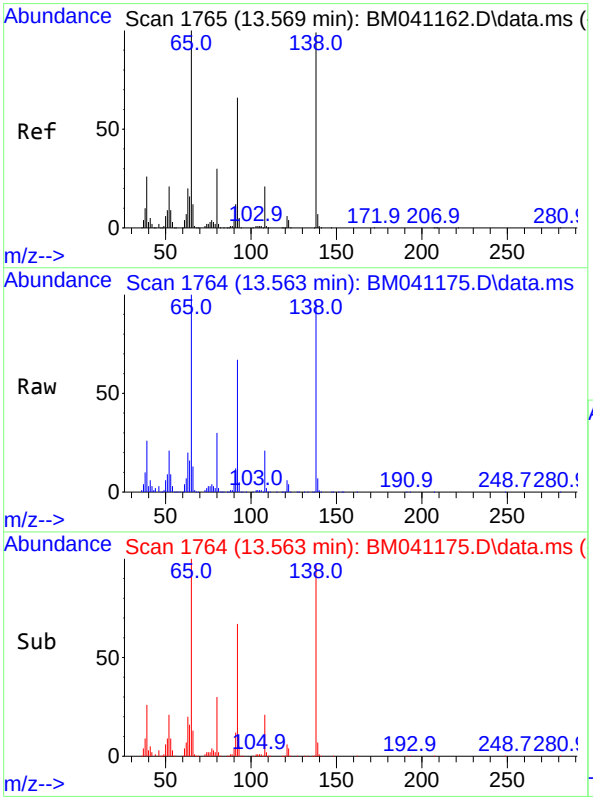
Ion	Ratio	Lower	Upper
162	100		
127	38.9	30.6	45.8
164	33.0	25.6	38.4



Instrument :
BNA_M
ClientSampleId :
SB-04-(1-5)MSD

Manual Integrations
APPROVED

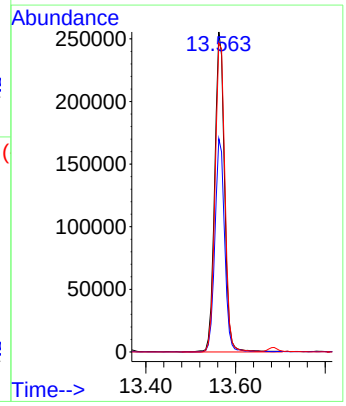
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

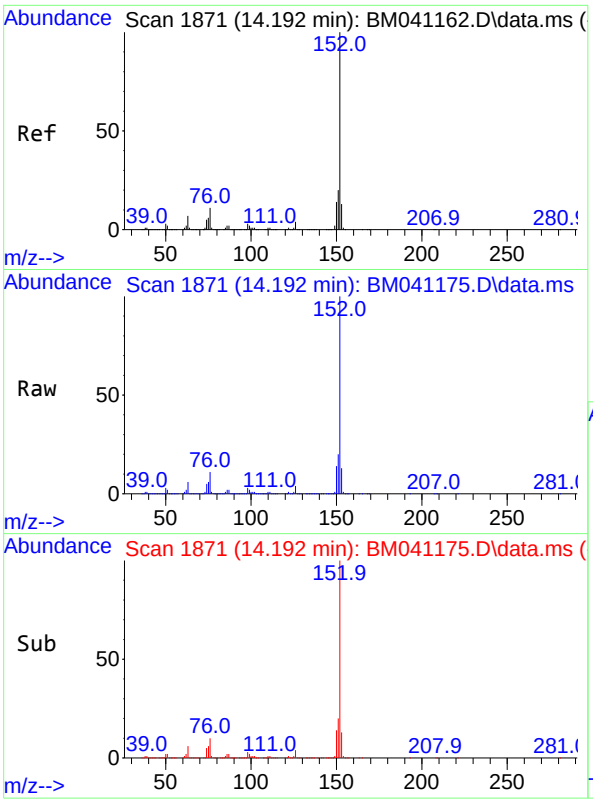


#48
2-Nitroaniline
Concen: 48.613 ng
RT: 13.563 min Scan# 1764
Delta R.T. -0.006 min
Lab File: BM041175.D
Acq: 28 Jul 2023 21:00

Tgt Ion: 65 Resp: 388233

Ion	Ratio	Lower	Upper
65	100		
92	66.7	53.0	79.4
138	96.5	79.1	118.7

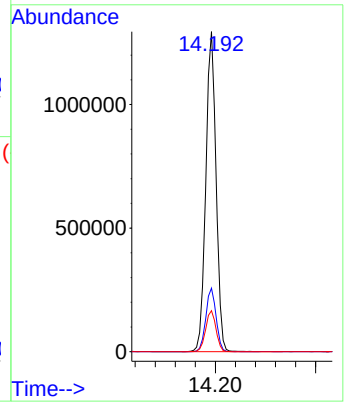




#49
Acenaphthylene
Concen: 45.565 ng
RT: 14.192 min Scan# 1
Delta R.T. -0.000 min
Lab File: BM041175.D
Acq: 28 Jul 2023 21:00

Tgt Ion:152 Resp: 184008

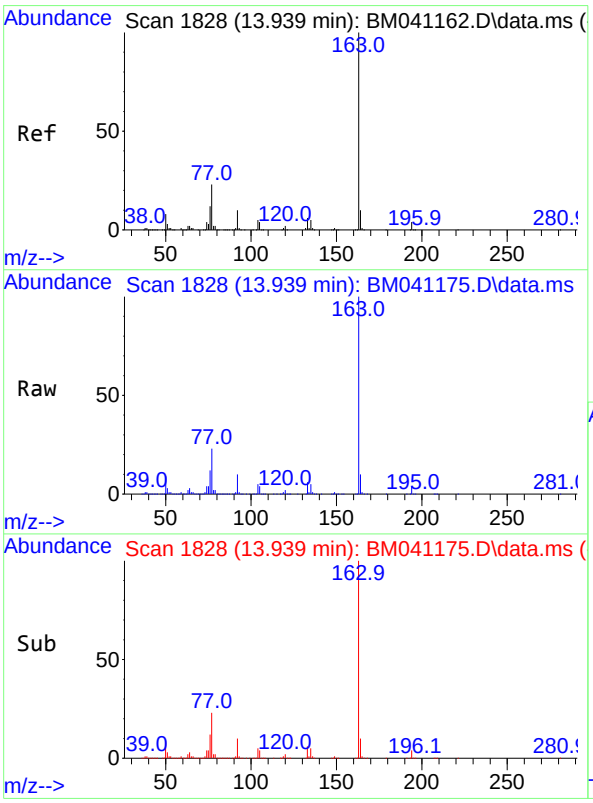
Ion	Ratio	Lower	Upper
152	100		
151	19.9	16.1	24.1
153	12.8	10.5	15.7



Instrument :
BNA_M
ClientSampleId :
SB-04-(1-5)MSD

Manual Integrations
APPROVED

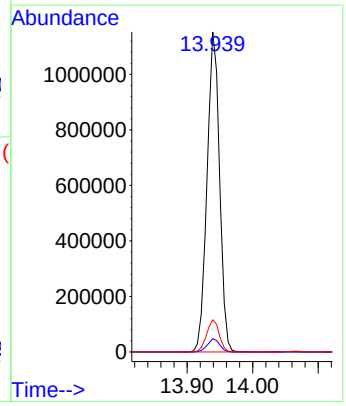
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

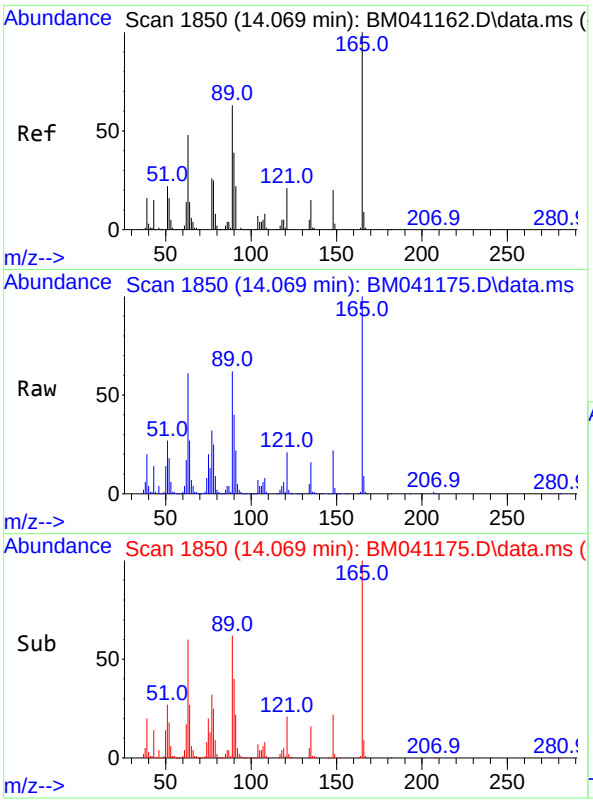


#50
Dimethylphthalate
Concen: 49.315 ng
RT: 13.939 min Scan# 1828
Delta R.T. 0.000 min
Lab File: BM041175.D
Acq: 28 Jul 2023 21:00

Tgt Ion:163 Resp: 1533280

Ion	Ratio	Lower	Upper
163	100		
194	4.2	3.3	4.9
164	10.1	8.3	12.5





#51
2,6-Dinitrotoluene
Concen: 47.245 ng
RT: 14.069 min Scan# 1
Delta R.T. -0.001 min
Lab File: BM041175.D
Acq: 28 Jul 2023 21:00

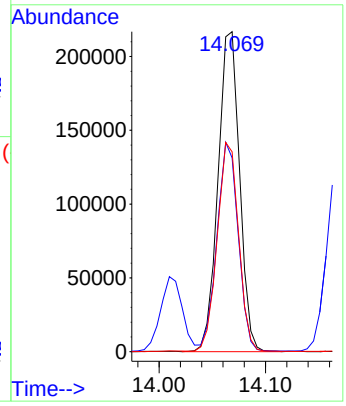
Tgt Ion:165 Resp: 30435

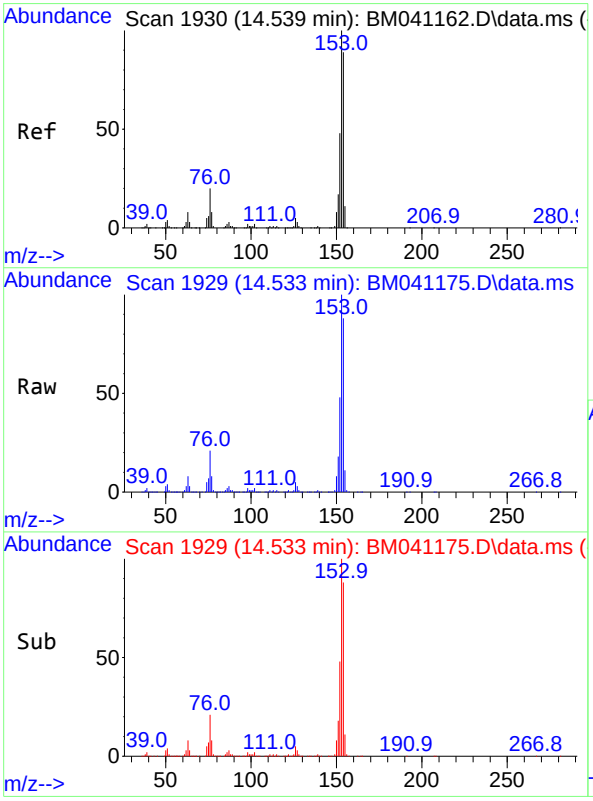
Ion	Ratio	Lower	Upper
165	100		
63	60.5	50.9	76.3
89	62.5	50.6	76.0

Instrument :
BNA_M
ClientSampleId :
SB-04-(1-5)MSD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

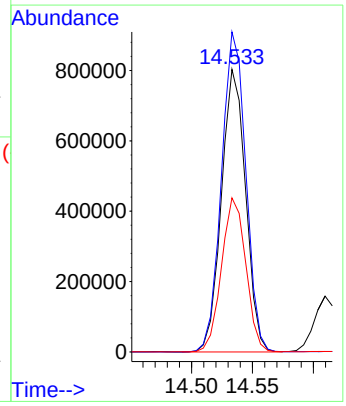


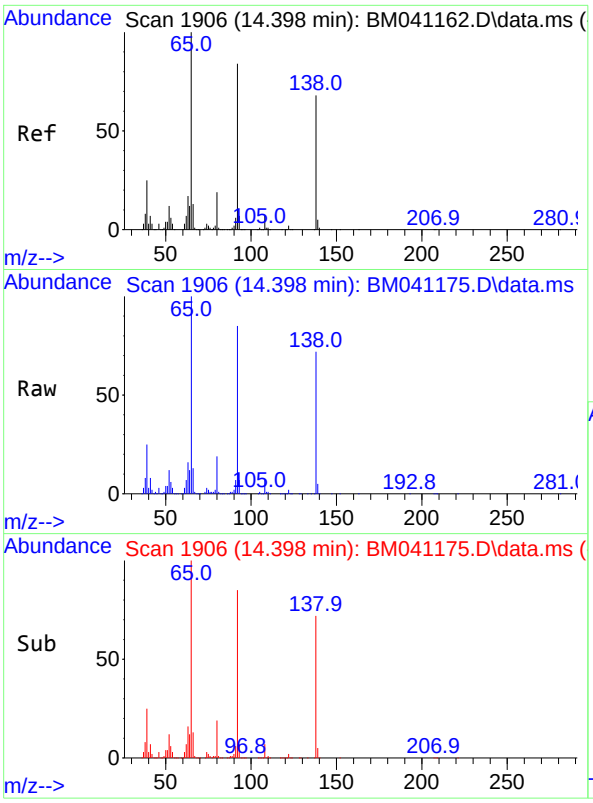


#52
Acenaphthene
Concen: 45.638 ng
RT: 14.533 min Scan# 1929
Delta R.T. -0.006 min
Lab File: BM041175.D
Acq: 28 Jul 2023 21:00

Tgt Ion:154 Resp: 1110294

Ion	Ratio	Lower	Upper
154	100		
153	113.2	90.2	135.4
152	54.5	43.4	65.0





#53
3-Nitroaniline
Concen: 42.477 ng
RT: 14.398 min Scan# 1
Delta R.T. -0.000 min
Lab File: BM041175.D
Acq: 28 Jul 2023 21:00

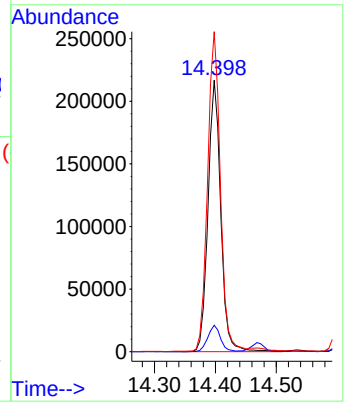
Tgt Ion:138 Resp: 31431

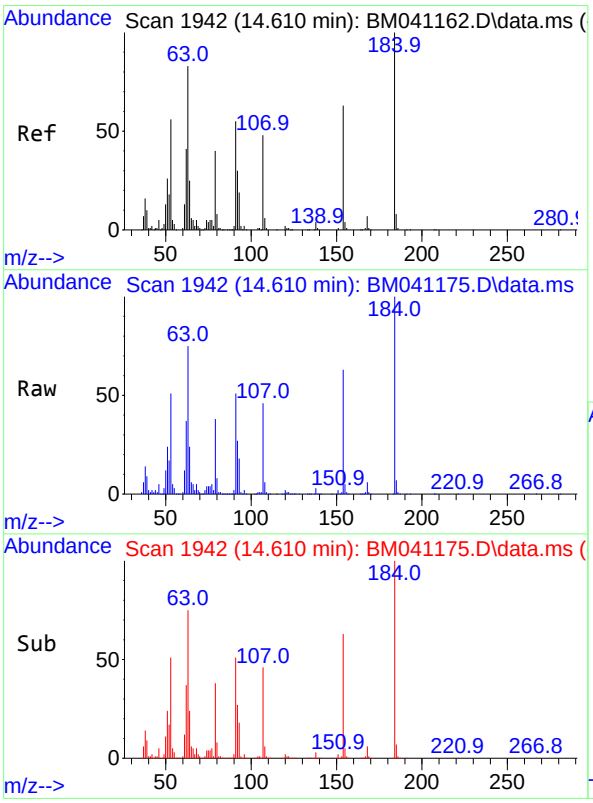
Ion	Ratio	Lower	Upper
138	100		
108	9.7	7.6	11.4
92	117.9	98.9	148.3

Instrument :
BNA_M
ClientSampleId :
SB-04-(1-5)MSD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

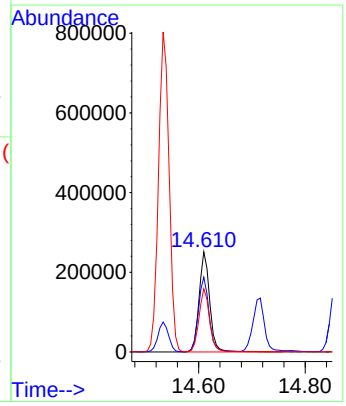


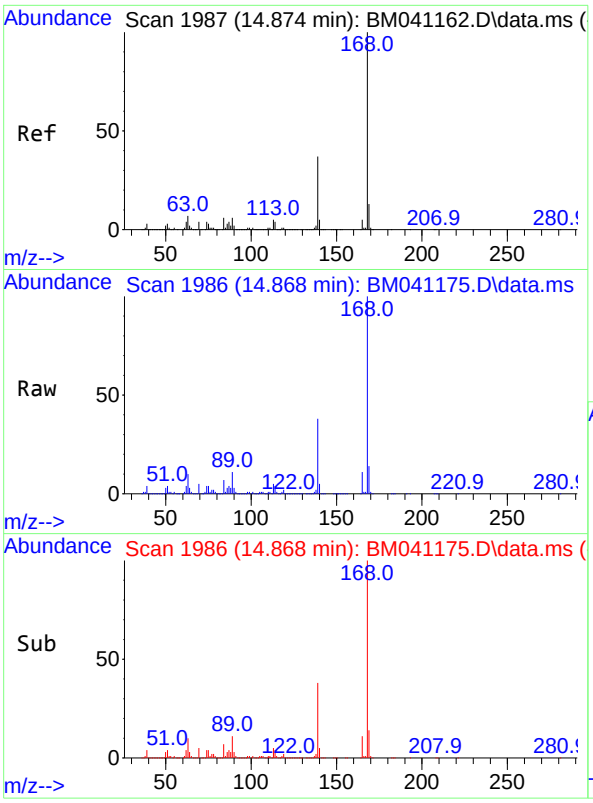


#54
2,4-Dinitrophenol
Concen: 79.452 ng
RT: 14.610 min Scan# 1942
Delta R.T. -0.000 min
Lab File: BM041175.D
Acq: 28 Jul 2023 21:00

Tgt Ion:184 Resp: 345457

Ion	Ratio	Lower	Upper
184	100		
63	74.7	66.5	99.7
154	63.1	52.8	79.2

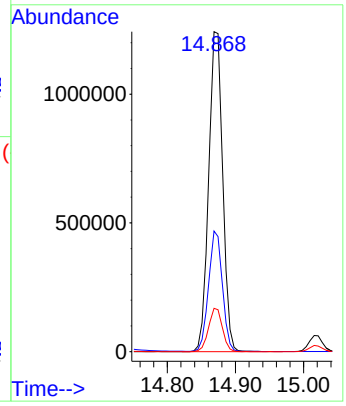




#55
Dibenzofuran
Concen: 44.810 ng
RT: 14.868 min Scan# 1
Delta R.T. -0.006 min
Lab File: BM041175.D
Acq: 28 Jul 2023 21:00

Tgt Ion:168 Resp: 177860

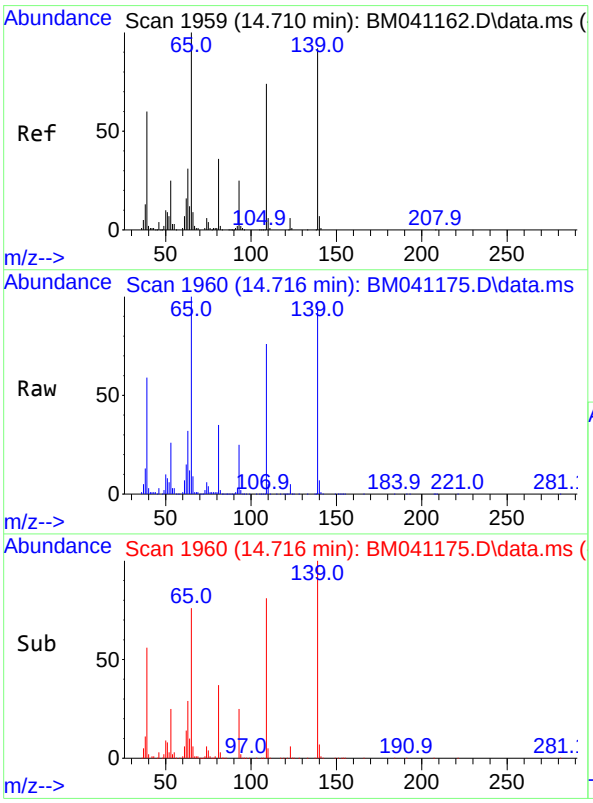
Ion	Ratio	Lower	Upper
168	100		
139	37.7	29.8	44.6
169	13.5	10.5	15.7



Instrument :
BNA_M
ClientSampleId :
SB-04-(1-5)MSD

Manual Integrations
APPROVED

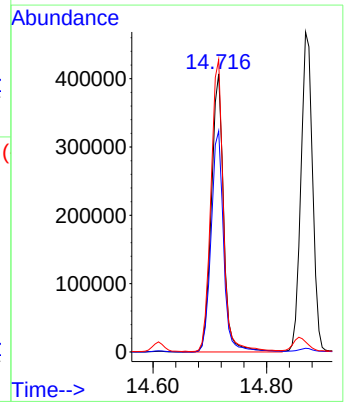
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

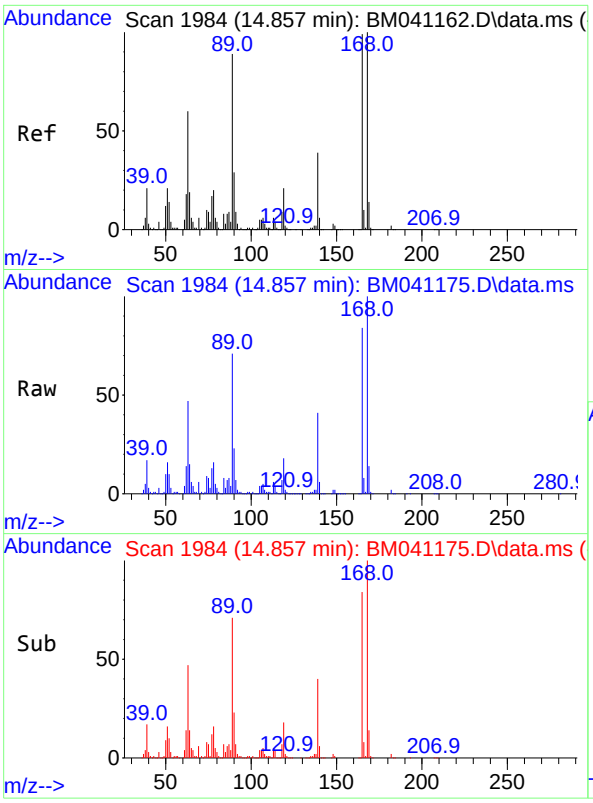


#56
4-Nitrophenol
Concen: 113.093 ng
RT: 14.716 min Scan# 1960
Delta R.T. 0.006 min
Lab File: BM041175.D
Acq: 28 Jul 2023 21:00

Tgt Ion:139 Resp: 607199

Ion	Ratio	Lower	Upper
139	100		
109	79.4	61.2	101.2
65	105.1	89.5	129.5

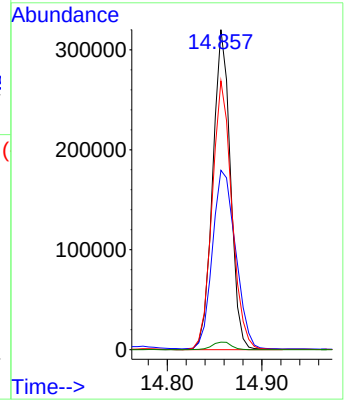




#57
2,4-Dinitrotoluene
Concen: 45.204 ng
RT: 14.857 min Scan# 1
Delta R.T. -0.000 min
Lab File: BM041175.D
Acq: 28 Jul 2023 21:00

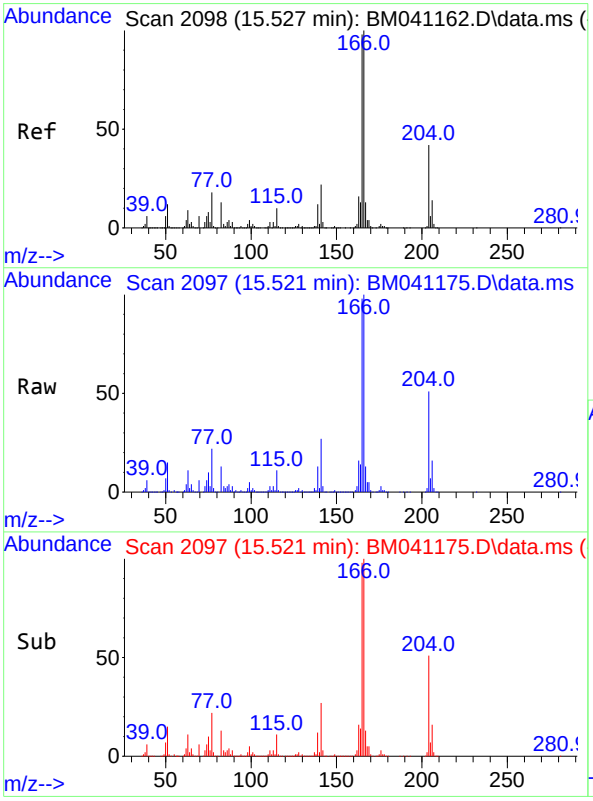
Tgt Ion:165 Resp: 41434

Ion	Ratio	Lower	Upper
165	100		
63	56.1	48.3	72.5
89	84.0	71.8	107.8
182	2.3	2.0	3.0



Instrument :
BNA_M
ClientSampleId :
SB-04-(1-5)MSD

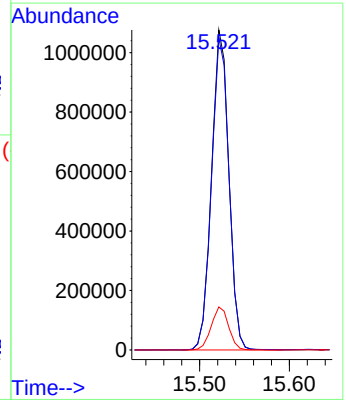
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

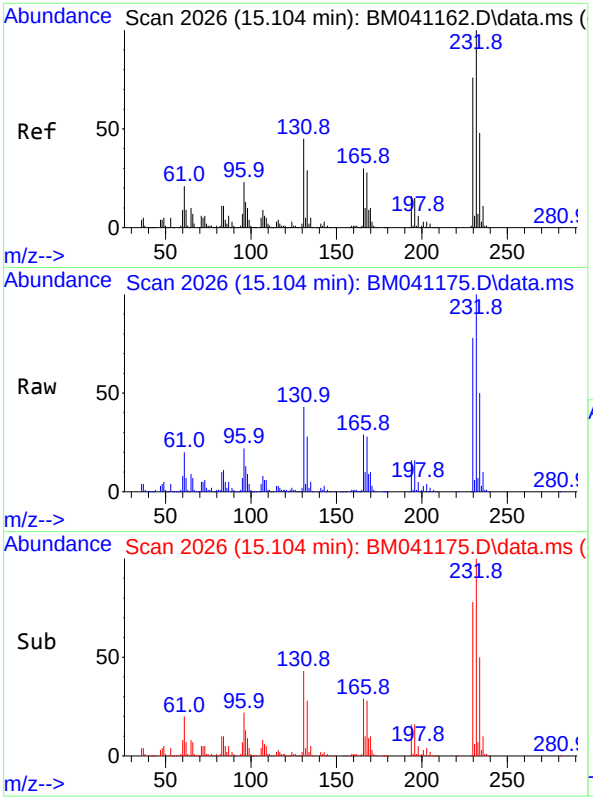


#58
Fluorene
Concen: 45.997 ng
RT: 15.521 min Scan# 2097
Delta R.T. -0.006 min
Lab File: BM041175.D
Acq: 28 Jul 2023 21:00

Tgt Ion:166 Resp: 1440311

Ion	Ratio	Lower	Upper
166	100		
165	97.6	78.2	117.4
167	13.5	10.6	16.0

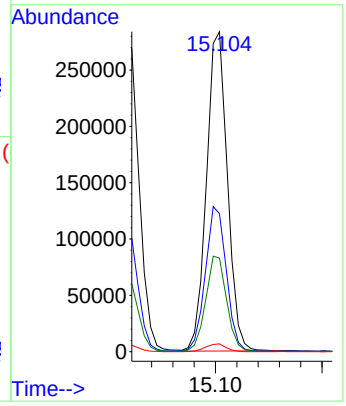




#59
2,3,4,6-Tetrachlorophenol
Concen: 48.015 ng
RT: 15.104 min Scan# 2
Delta R.T. -0.000 min
Lab File: BM041175.D
Acq: 28 Jul 2023 21:00

Tgt Ion:232 Resp: 38712

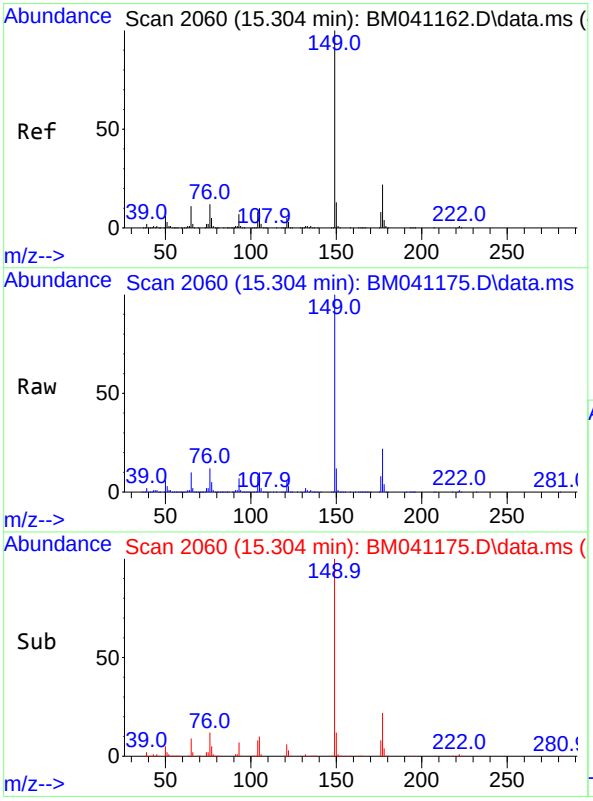
Ion	Ratio	Lower	Upper
232	100		
131	45.7	36.9	55.3
130	2.4	2.0	3.0
166	30.1	24.2	36.2



Instrument :
BNA_M
ClientSampleId :
SB-04-(1-5)MSD

Manual Integrations
APPROVED

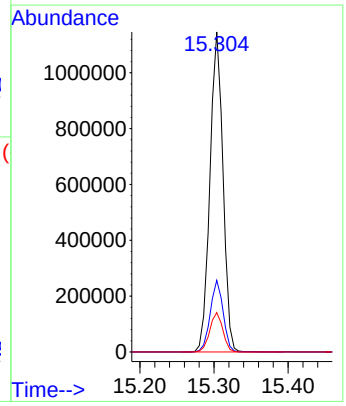
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

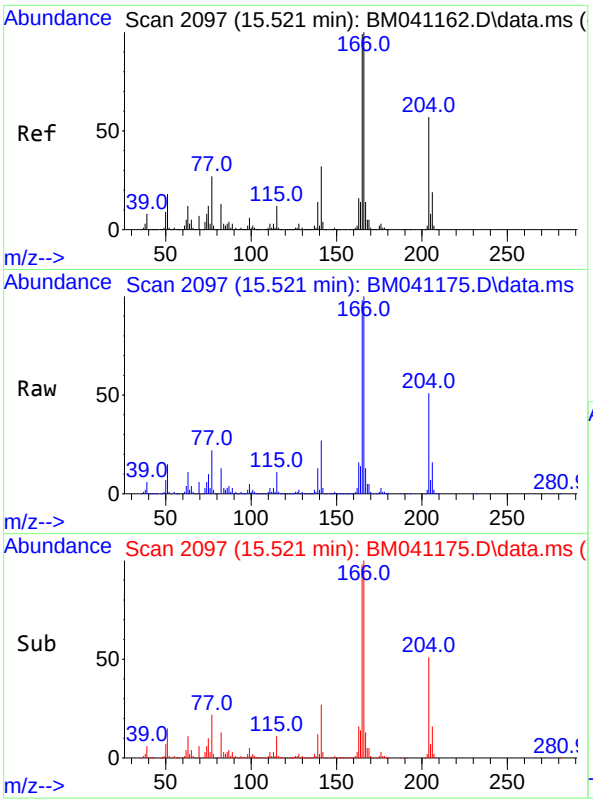


#60
Diethylphthalate
Concen: 46.646 ng
RT: 15.304 min Scan# 2060
Delta R.T. -0.000 min
Lab File: BM041175.D
Acq: 28 Jul 2023 21:00

Tgt Ion:149 Resp: 1402492

Ion	Ratio	Lower	Upper
149	100		
177	22.4	17.5	26.3
150	12.3	10.1	15.1

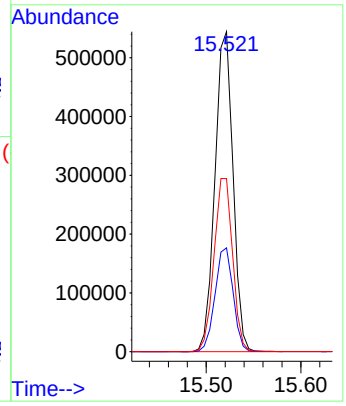




#61
4-Chlorophenyl-phenylether
Concen: 45.870 ng
RT: 15.521 min Scan# 2
Delta R.T. -0.000 min
Lab File: BM041175.D
Acq: 28 Jul 2023 21:00

Tgt Ion:204 Resp: 71975

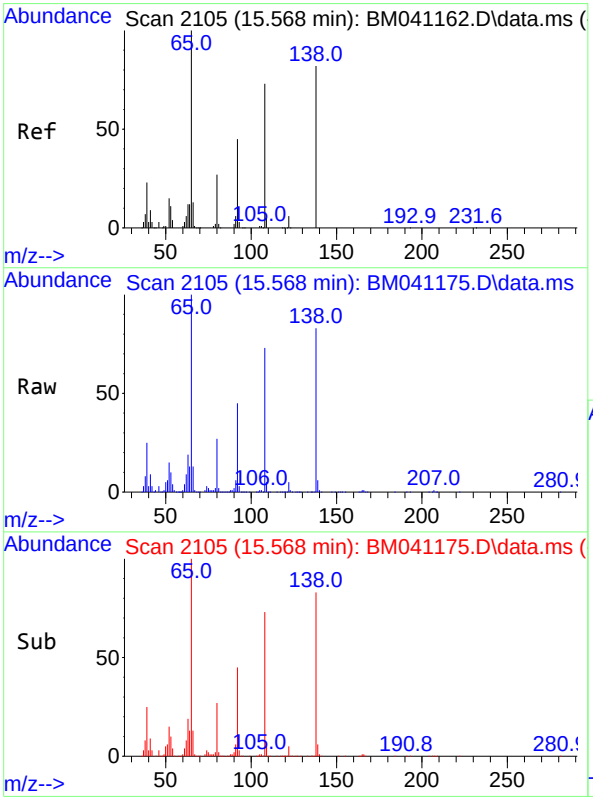
Ion	Ratio	Lower	Upper
204	100		
206	32.4	26.5	39.7
141	54.1	44.8	67.2



Instrument :
BNA_M
ClientSampleId :
SB-04-(1-5)MSD

Manual Integrations
APPROVED

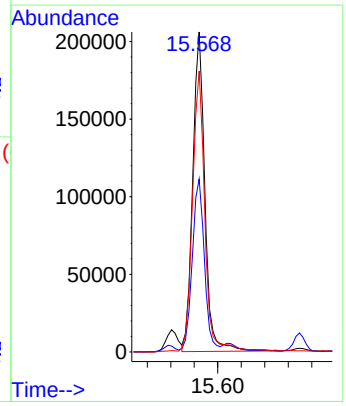
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

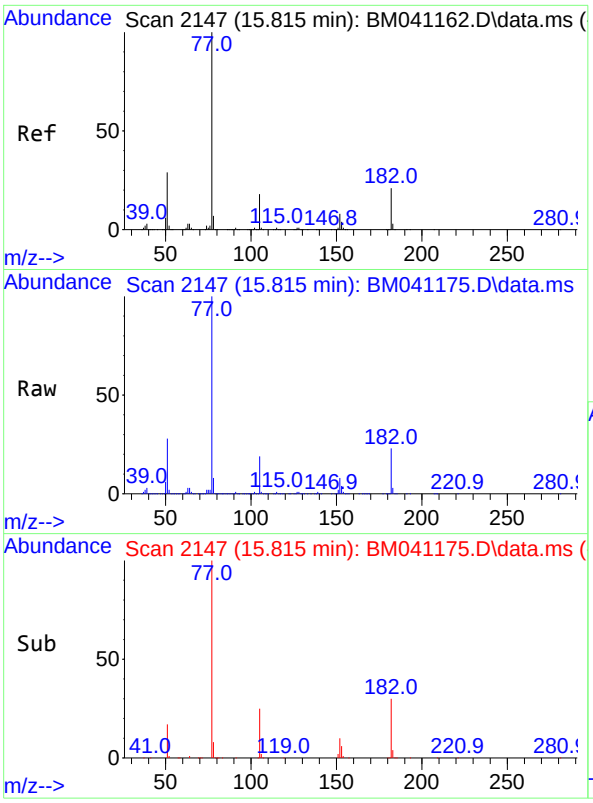


#62
4-Nitroaniline
Concen: 43.456 ng
RT: 15.568 min Scan# 2105
Delta R.T. 0.000 min
Lab File: BM041175.D
Acq: 28 Jul 2023 21:00

Tgt Ion:138 Resp: 295630

Ion	Ratio	Lower	Upper
138	100		
92	54.1	35.1	75.1
108	87.8	67.8	107.8

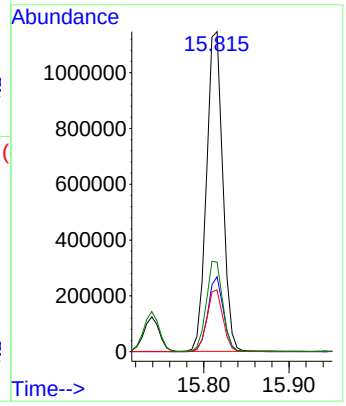




#63
Azobenzene
Concen: 45.987 ng
RT: 15.815 min Scan# 21
Delta R.T. 0.000 min
Lab File: BM041175.D
Acq: 28 Jul 2023 21:00

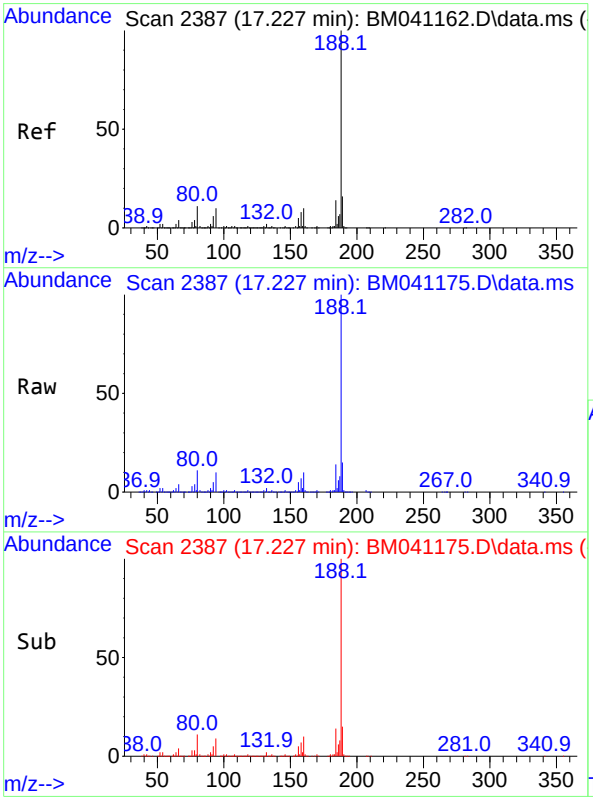
Tgt Ion: 77 Resp: 151456

Ion	Ratio	Lower	Upper
77	100		
182	23.4	1.3	41.3
105	19.3	0.0	38.5
51	28.0	9.1	49.1



Instrument :
BNA_M
ClientSampleId :
SB-04-(1-5)MSD

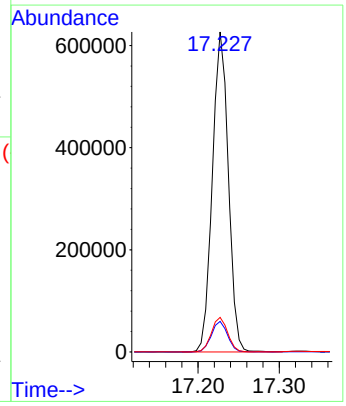
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

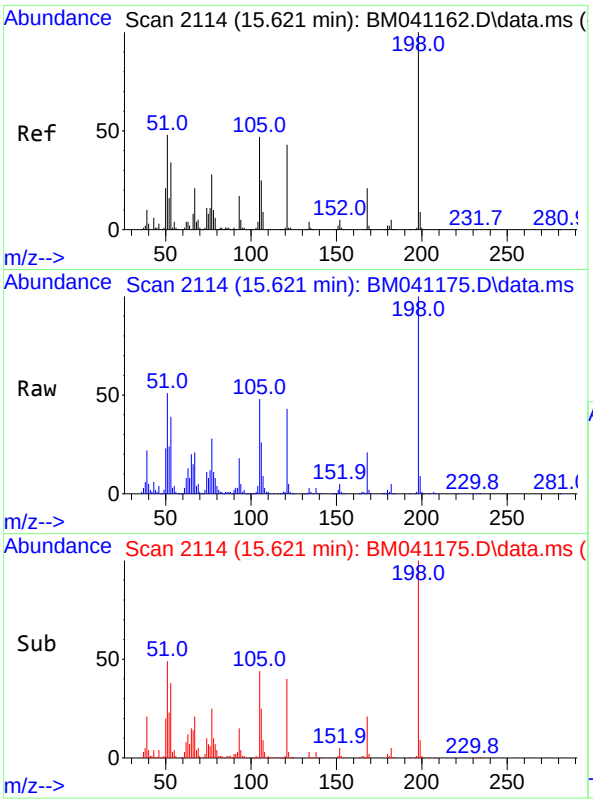


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.227 min Scan# 2387
Delta R.T. -0.000 min
Lab File: BM041175.D
Acq: 28 Jul 2023 21:00

Tgt Ion:188 Resp: 855318

Ion	Ratio	Lower	Upper
188	100		
94	9.5	8.2	12.2
80	10.8	8.6	13.0





#65
4,6-Dinitro-2-methylphenol
Concen: 40.796 ng
RT: 15.621 min Scan# 2
Delta R.T. 0.000 min
Lab File: BM041175.D
Acq: 28 Jul 2023 21:00

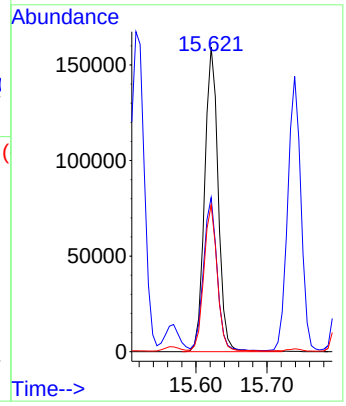
Tgt Ion:198 Resp: 21138

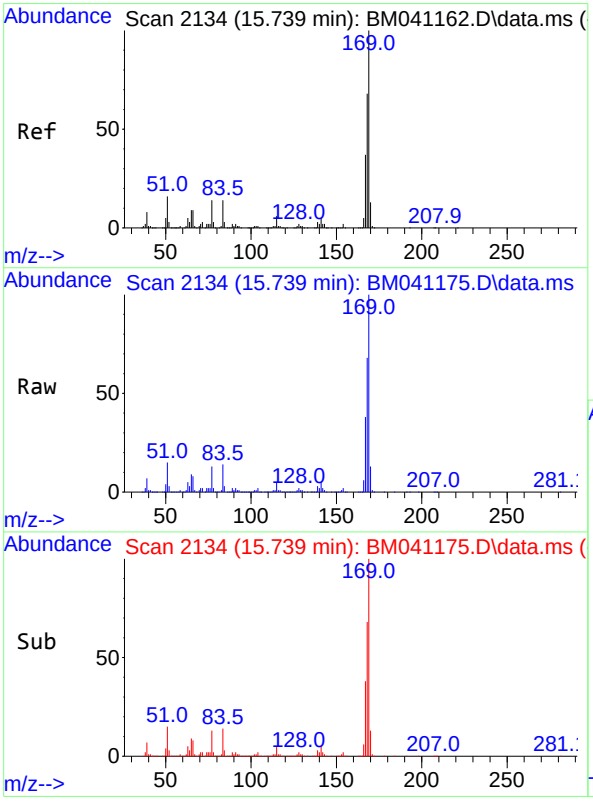
Ion	Ratio	Lower	Upper
198	100		
51	50.6	31.7	71.7
105	48.2	27.8	67.8

Instrument :
BNA_M
ClientSampleId :
SB-04-(1-5)MSD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

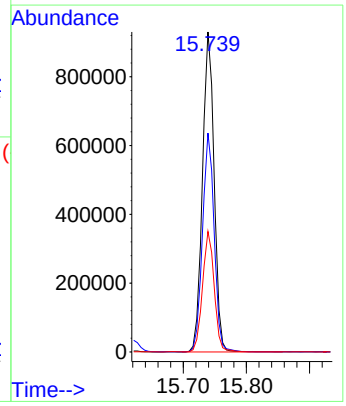


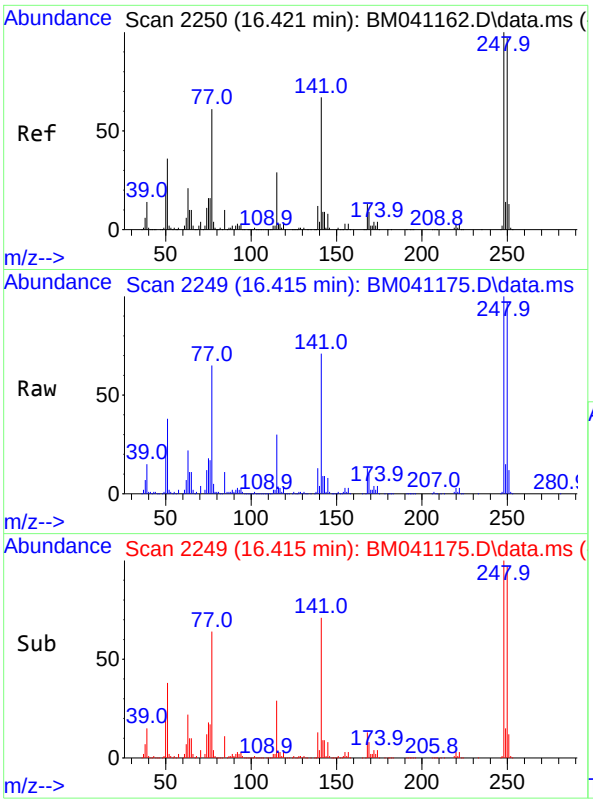


#66
n-Nitrosodiphenylamine
Concen: 44.678 ng
RT: 15.739 min Scan# 2134
Delta R.T. -0.000 min
Lab File: BM041175.D
Acq: 28 Jul 2023 21:00

Tgt Ion:169 Resp: 1188488

Ion	Ratio	Lower	Upper
169	100		
168	68.4	54.6	81.8
167	37.6	29.9	44.9

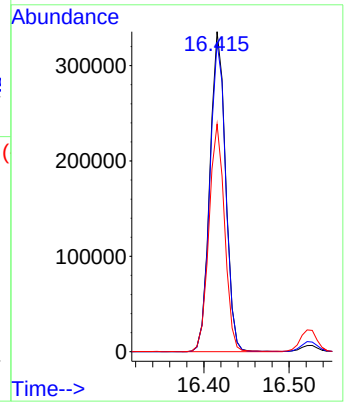




#67
4-Bromophenyl-phenylether
Concen: 45.823 ng
RT: 16.415 min Scan# 2
Delta R.T. -0.006 min
Lab File: BM041175.D
Acq: 28 Jul 2023 21:00

Tgt Ion:248 Resp: 42972

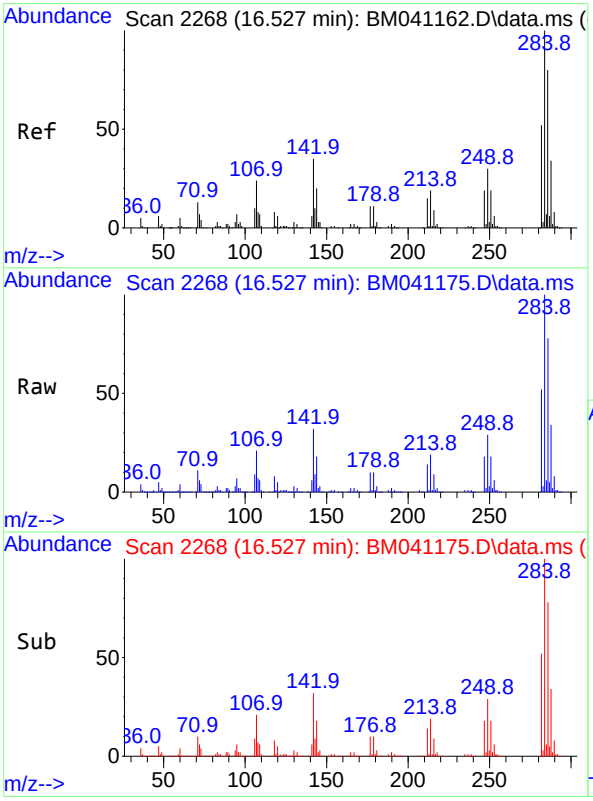
Ion	Ratio	Lower	Upper
248	100		
250	96.7	78.0	117.0
141	71.1	53.8	80.8



Instrument :
BNA_M
ClientSampleId :
SB-04-(1-5)MSD

Manual Integrations
APPROVED

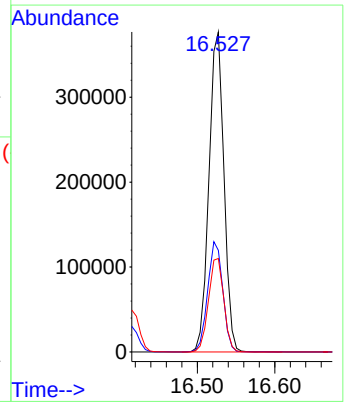
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

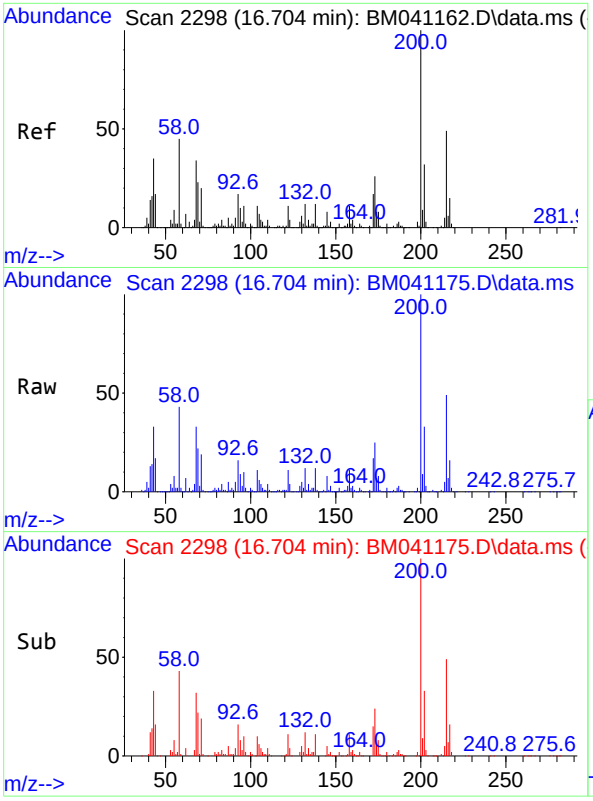


#68
Hexachlorobenzene
Concen: 48.488 ng
RT: 16.527 min Scan# 2268
Delta R.T. -0.000 min
Lab File: BM041175.D
Acq: 28 Jul 2023 21:00

Tgt Ion:284 Resp: 505627

Ion	Ratio	Lower	Upper
284	100		
142	31.8	28.0	42.0
249	29.2	23.7	35.5

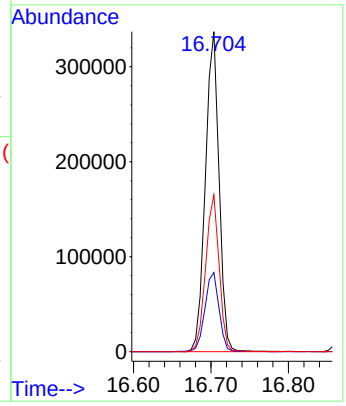




#69
Atrazine
Concen: 59.080 ng
RT: 16.704 min Scan# 2
Delta R.T. -0.000 min
Lab File: BM041175.D
Acq: 28 Jul 2023 21:00

Tgt Ion:200 Resp: 41272

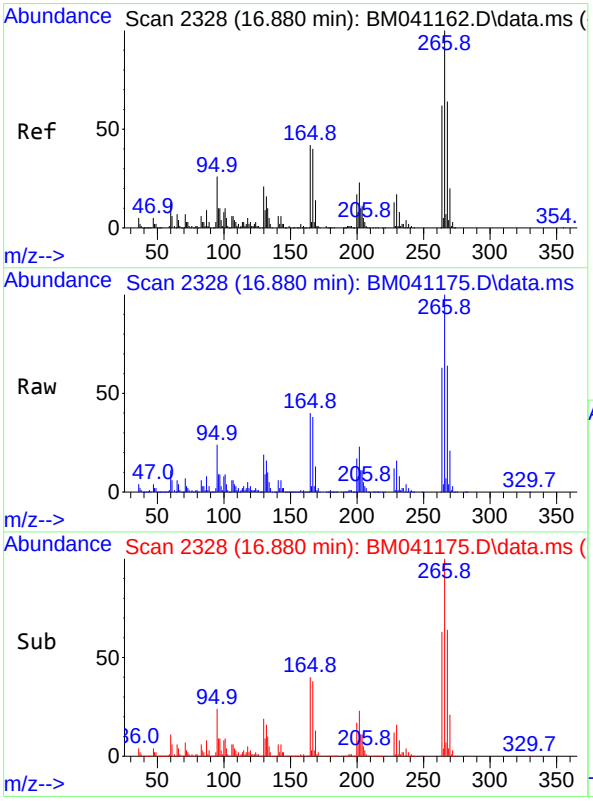
Ion	Ratio	Lower	Upper
200	100		
173	24.8	5.6	45.6
215	49.0	28.5	68.5



Instrument :
BNA_M
ClientSampleId :
SB-04-(1-5)MSD

Manual Integrations
APPROVED

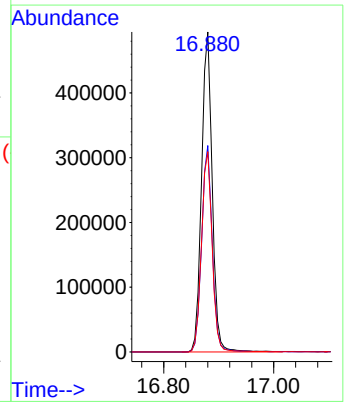
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

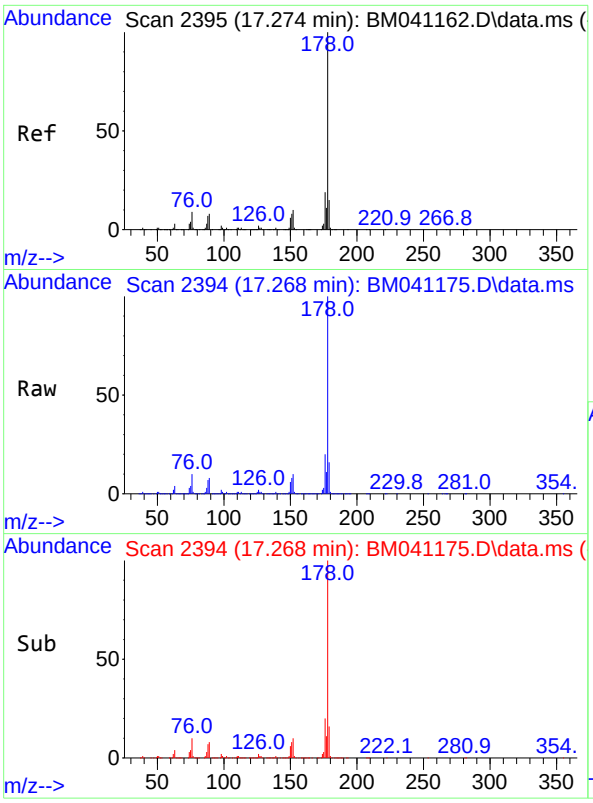


#70
Pentachlorophenol
Concen: 92.400 ng
RT: 16.880 min Scan# 2328
Delta R.T. -0.000 min
Lab File: BM041175.D
Acq: 28 Jul 2023 21:00

Tgt Ion:266 Resp: 667200

Ion	Ratio	Lower	Upper
266	100		
268	64.5	51.0	76.6
264	62.6	49.4	74.2

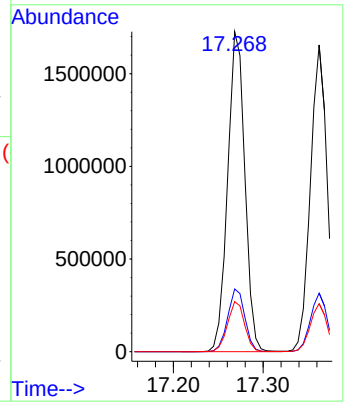




#71
Phenanthrene
Concen: 48.302 ng
RT: 17.268 min Scan# 2
Delta R.T. -0.006 min
Lab File: BM041175.D
Acq: 28 Jul 2023 21:00

Tgt Ion:178 Resp: 229540

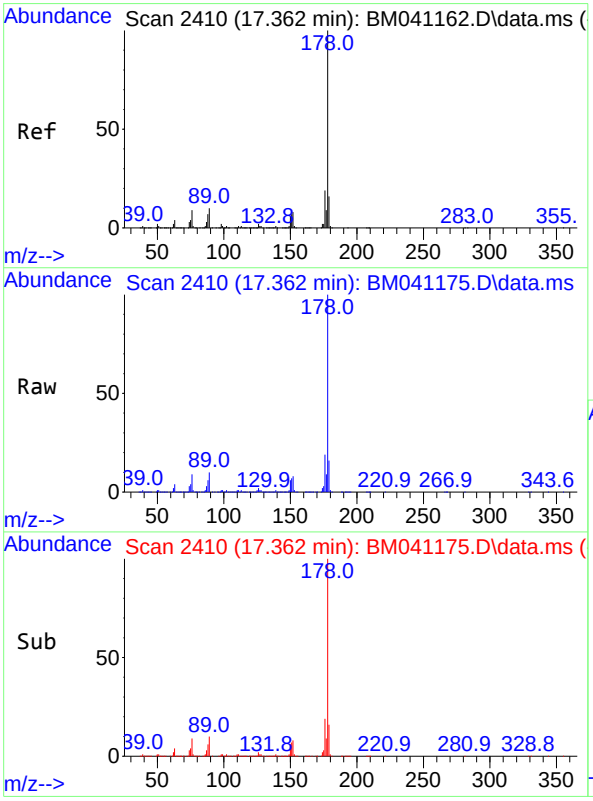
Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.6	23.4
179	15.7	12.1	18.1



Instrument :
BNA_M
ClientSampleId :
SB-04-(1-5)MSD

Manual Integrations
APPROVED

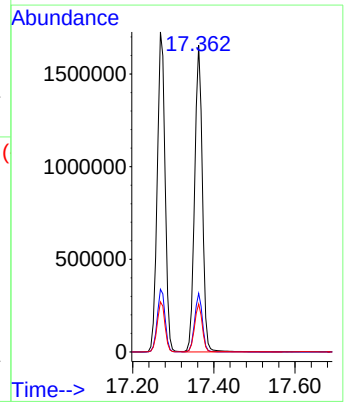
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

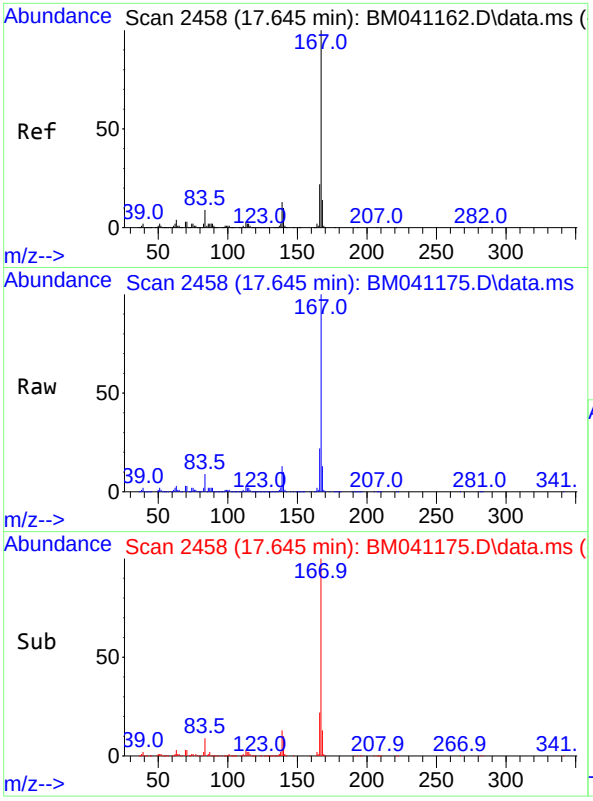


#72
Anthracene
Concen: 46.523 ng
RT: 17.362 min Scan# 2410
Delta R.T. -0.000 min
Lab File: BM041175.D
Acq: 28 Jul 2023 21:00

Tgt Ion:178 Resp: 2186590

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.2	22.8
179	15.7	12.4	18.6

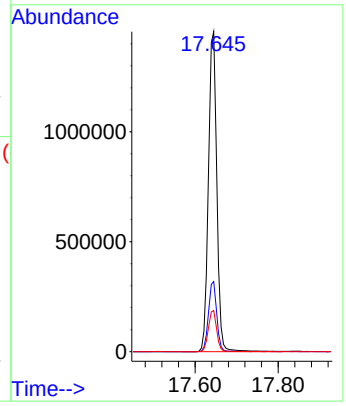




#73
Carbazole
Concen: 48.038 ng
RT: 17.645 min Scan# 24
Delta R.T. -0.000 min
Lab File: BM041175.D
Acq: 28 Jul 2023 21:00

Tgt Ion:167 Resp: 204351

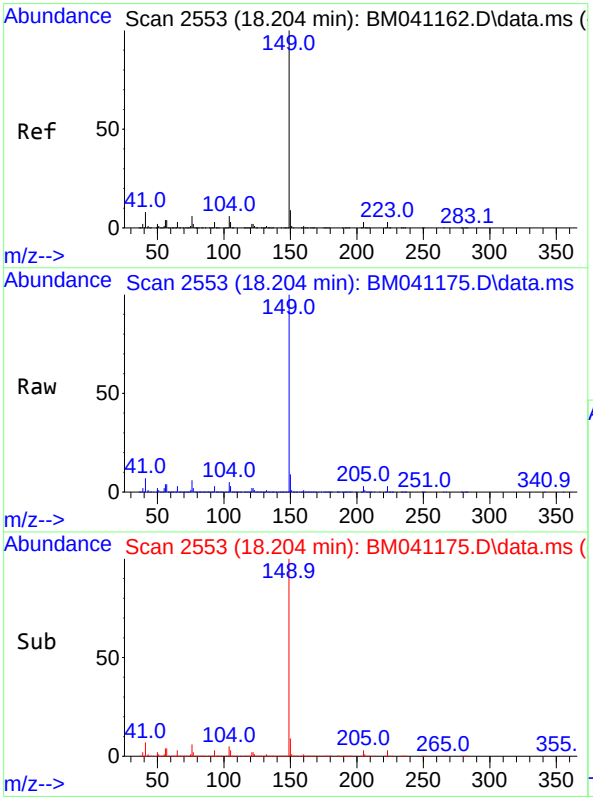
Ion	Ratio	Lower	Upper
167	100		
166	21.9	17.3	25.9
139	12.8	10.3	15.5



Instrument :
BNA_M
ClientSampleId :
SB-04-(1-5)MSD

Manual Integrations
APPROVED

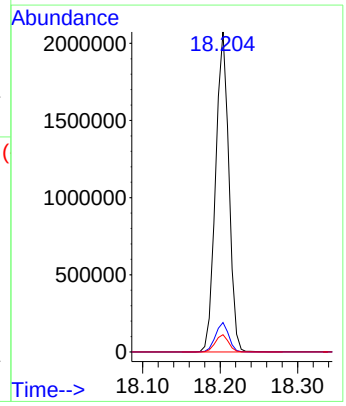
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

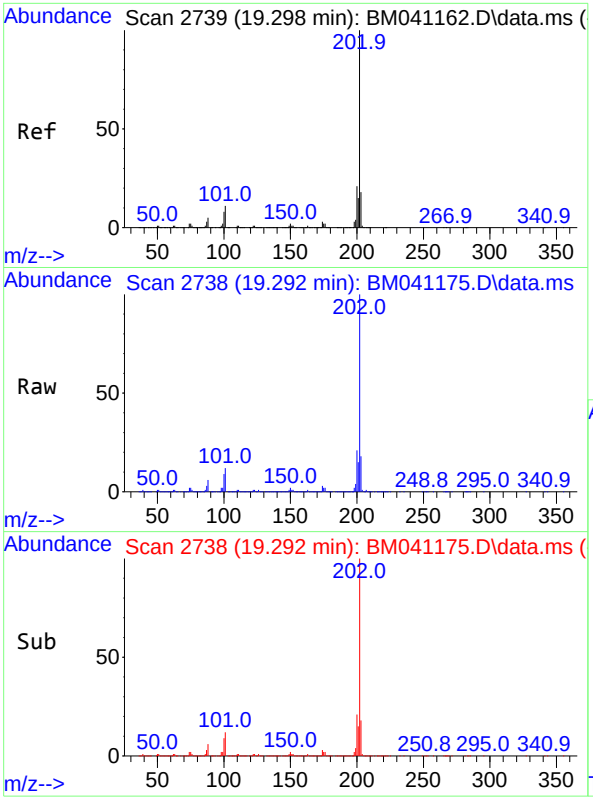


#74
Di-n-butylphthalate
Concen: 51.149 ng
RT: 18.204 min Scan# 2553
Delta R.T. -0.000 min
Lab File: BM041175.D
Acq: 28 Jul 2023 21:00

Tgt Ion:149 Resp: 2458744

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.3	10.9
104	5.4	4.5	6.7

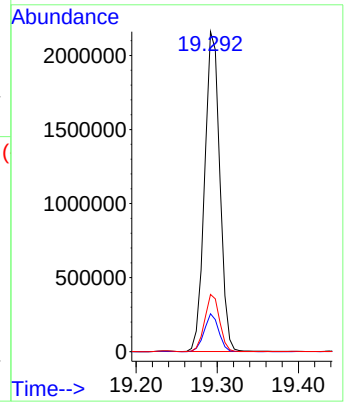




#75
Fluoranthene
Concen: 52.495 ng
RT: 19.292 min Scan# 2
Delta R.T. -0.006 min
Lab File: BM041175.D
Acq: 28 Jul 2023 21:00

Tgt Ion:202 Resp: 280269

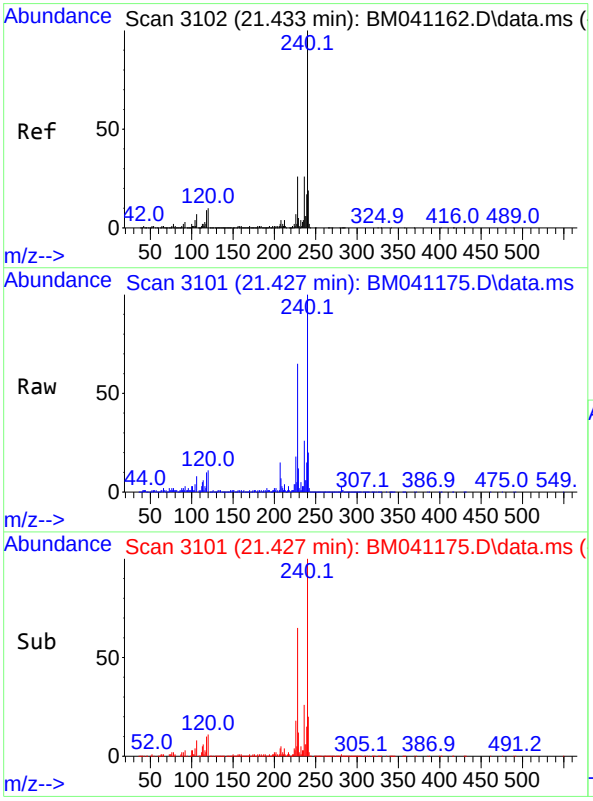
Ion	Ratio	Lower	Upper
202	100		
101	11.9	0.0	30.8
203	17.9	0.0	37.6



Instrument :
BNA_M
ClientSampleId :
SB-04-(1-5)MSD

Manual Integrations
APPROVED

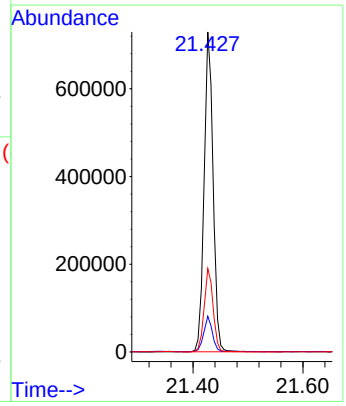
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

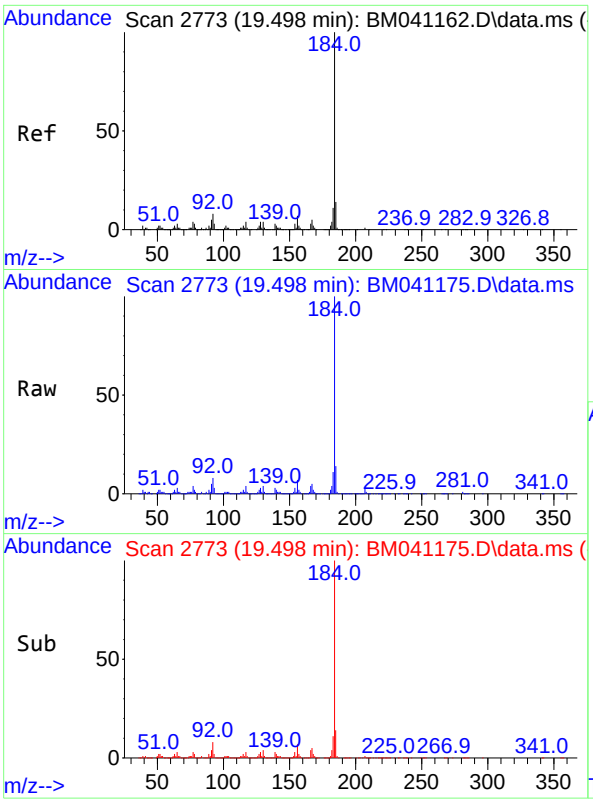


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.427 min Scan# 3101
Delta R.T. -0.006 min
Lab File: BM041175.D
Acq: 28 Jul 2023 21:00

Tgt Ion:240 Resp: 829098

Ion	Ratio	Lower	Upper
240	100		
120	11.2	8.3	12.5
236	26.0	20.6	30.8

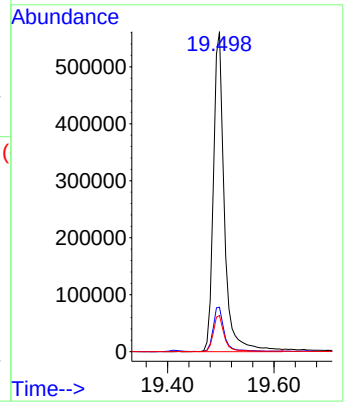




#77
Benzidine
Concen: 71.195 ng
RT: 19.498 min Scan# 2
Delta R.T. -0.000 min
Lab File: BM041175.D
Acq: 28 Jul 2023 21:00

Tgt Ion:184 Resp: 80454

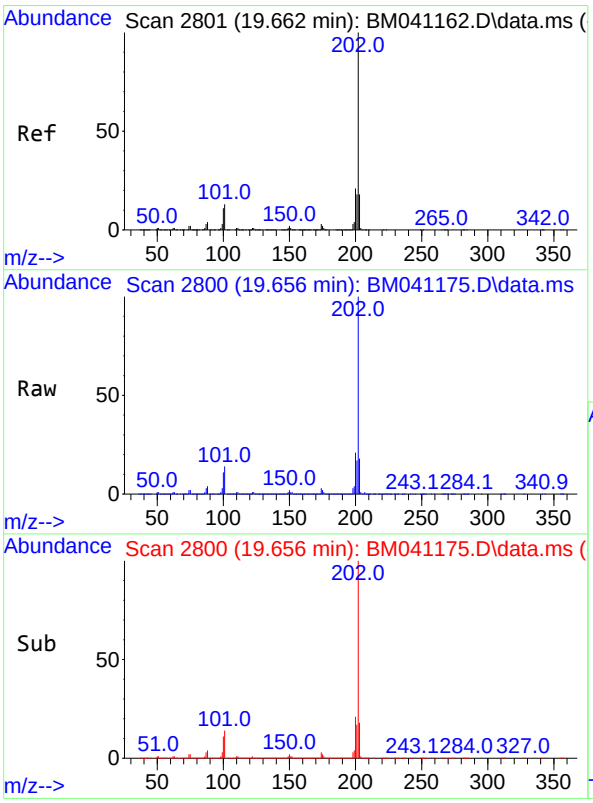
Ion	Ratio	Lower	Upper
184	100		
185	13.9	11.4	17.0
183	11.3	9.2	13.8



Instrument :
BNA_M
ClientSampleId :
SB-04-(1-5)MSD

Manual Integrations
APPROVED

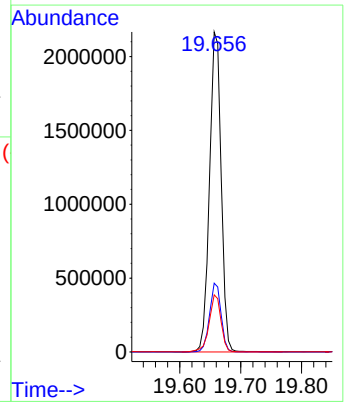
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

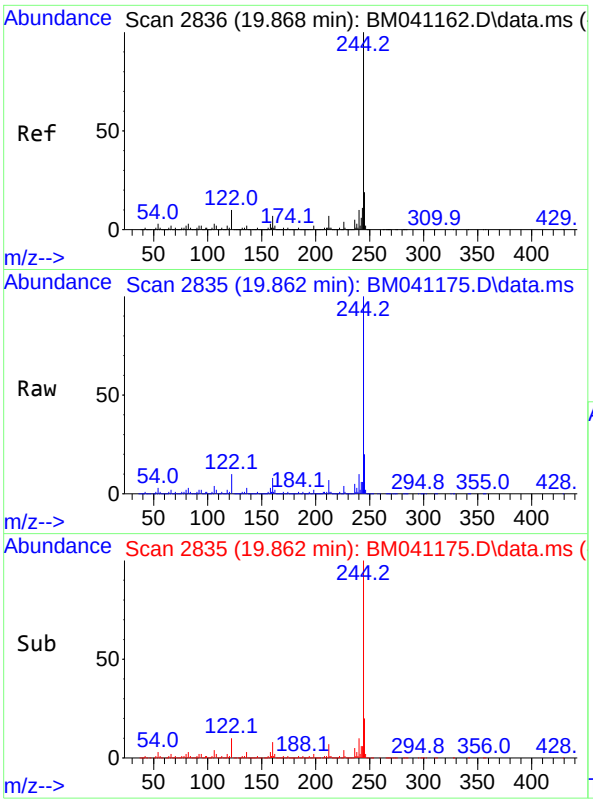


#78
Pyrene
Concen: 49.601 ng
RT: 19.656 min Scan# 2800
Delta R.T. -0.006 min
Lab File: BM041175.D
Acq: 28 Jul 2023 21:00

Tgt Ion:202 Resp: 2875871

Ion	Ratio	Lower	Upper
202	100		
200	21.5	16.9	25.3
203	17.9	14.1	21.1

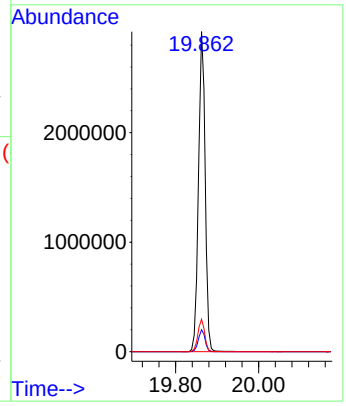




#79
Terphenyl-d14
Concen: 71.088 ng
RT: 19.862 min Scan# 2
Delta R.T. -0.006 min
Lab File: BM041175.D
Acq: 28 Jul 2023 21:00

Tgt Ion:244 Resp: 325978

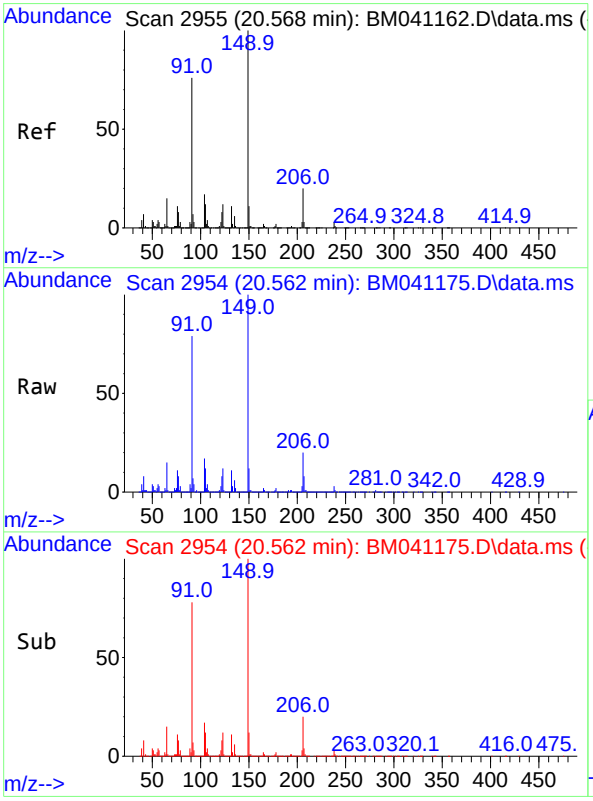
Ion	Ratio	Lower	Upper
244	100		
212	6.9	5.4	8.2
122	10.1	7.8	11.6



Instrument :
BNA_M
ClientSampleId :
SB-04-(1-5)MSD

Manual Integrations
APPROVED

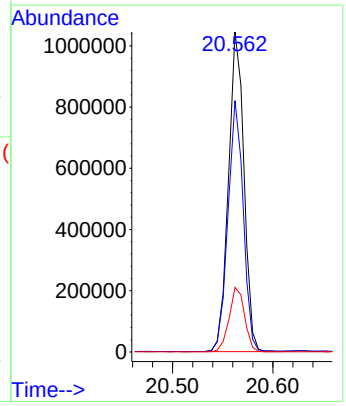
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

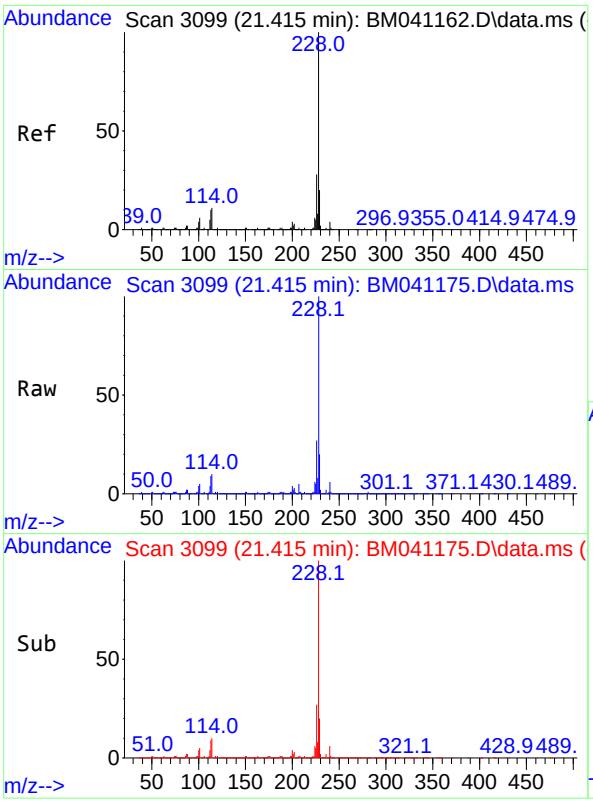


#80
Butylbenzylphthalate
Concen: 52.866 ng
RT: 20.562 min Scan# 2954
Delta R.T. -0.006 min
Lab File: BM041175.D
Acq: 28 Jul 2023 21:00

Tgt Ion:149 Resp: 1119340

Ion	Ratio	Lower	Upper
149	100		
91	78.5	60.8	91.2
206	20.2	16.4	24.6

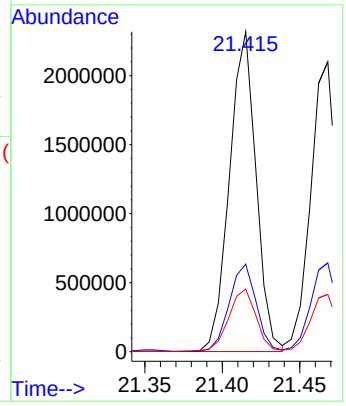




#81
Benzo(a)anthracene
Concen: 49.144 ng
RT: 21.415 min Scan# 3
Delta R.T. 0.000 min
Lab File: BM041175.D
Acq: 28 Jul 2023 21:00

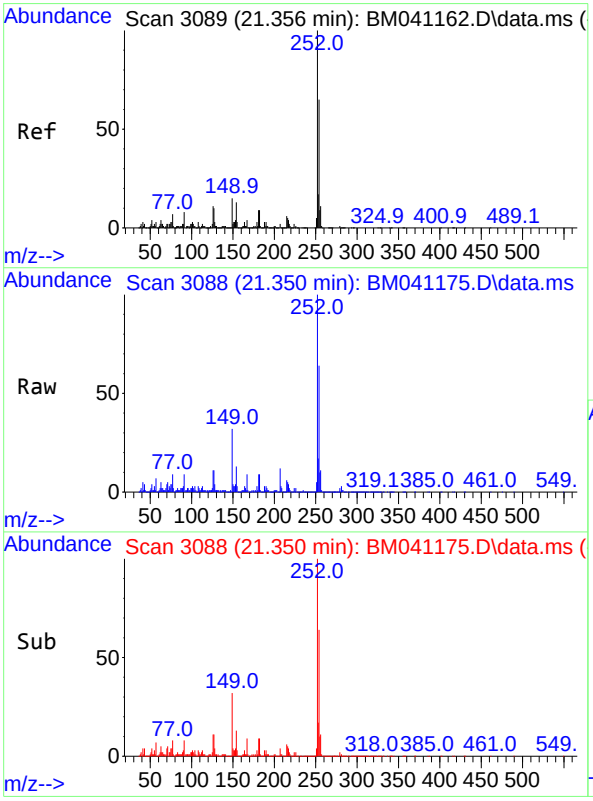
Tgt Ion:228 Resp: 276219

Ion	Ratio	Lower	Upper
228	100		
226	27.3	22.4	33.6
229	19.6	15.8	23.8



Instrument :
BNA_M
ClientSampleId :
SB-04-(1-5)MSD

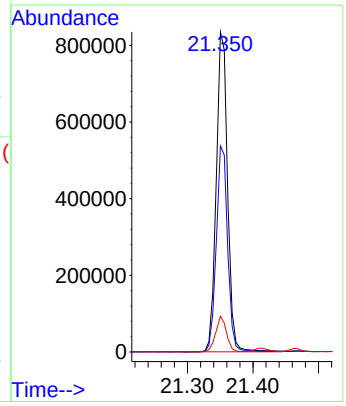
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

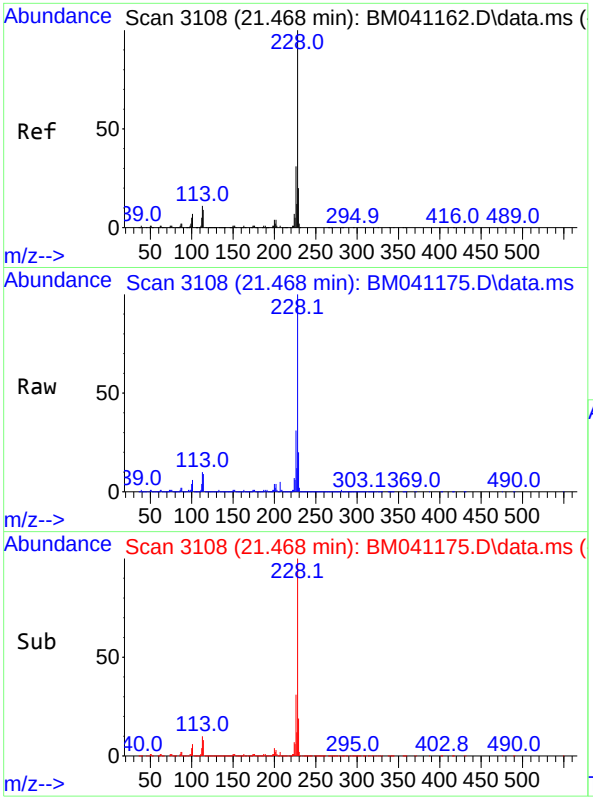


#82
3,3'-Dichlorobenzidine
Concen: 54.505 ng
RT: 21.350 min Scan# 3088
Delta R.T. -0.006 min
Lab File: BM041175.D
Acq: 28 Jul 2023 21:00

Tgt Ion:252 Resp: 999663

Ion	Ratio	Lower	Upper
252	100		
254	64.4	51.8	77.6
126	11.2	8.6	13.0

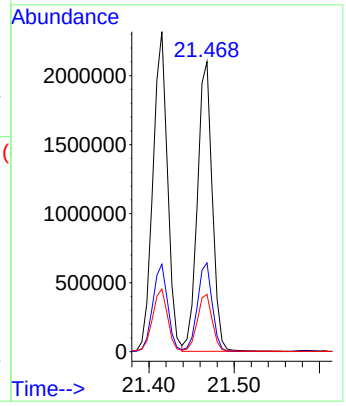




#83
Chrysene
Concen: 46.585 ng
RT: 21.468 min Scan# 3
Delta R.T. 0.000 min
Lab File: BM041175.D
Acq: 28 Jul 2023 21:00

Tgt Ion:228 Resp: 253260

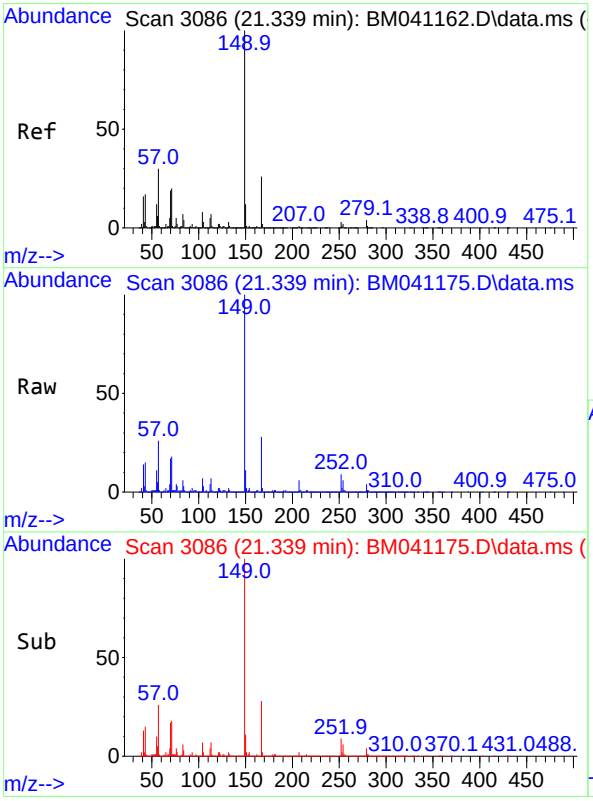
Ion	Ratio	Lower	Upper
228	100		
226	30.6	24.5	36.7
229	19.8	15.8	23.8



Instrument :
BNA_M
ClientSampleId :
SB-04-(1-5)MSD

Manual Integrations
APPROVED

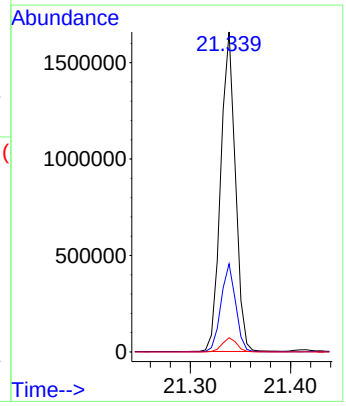
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

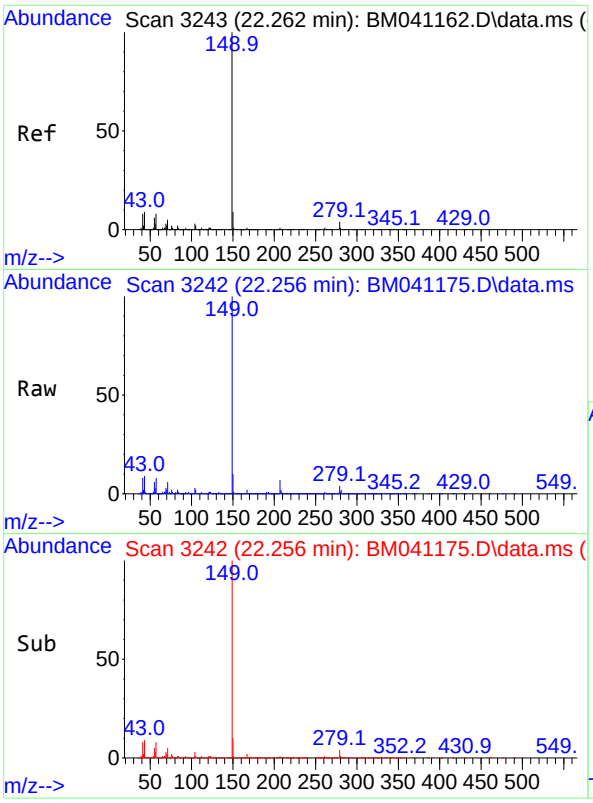


#84
Bis(2-ethylhexyl)phthalate
Concen: 49.926 ng
RT: 21.339 min Scan# 3086
Delta R.T. -0.000 min
Lab File: BM041175.D
Acq: 28 Jul 2023 21:00

Tgt Ion:149 Resp: 1682333

Ion	Ratio	Lower	Upper
149	100		
167	27.5	21.0	31.6
279	4.4	3.1	4.7





#85
Di-n-octyl phthalate
Concen: 53.535 ng
RT: 22.256 min Scan# 3
Delta R.T. -0.006 min
Lab File: BM041175.D
Acq: 28 Jul 2023 21:00

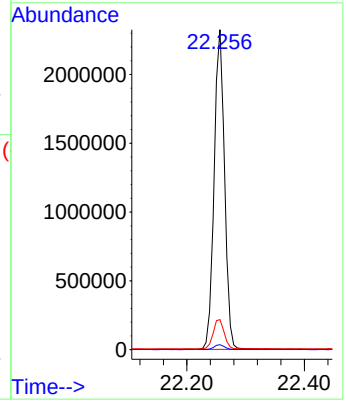
Tgt Ion:149 Resp: 286475

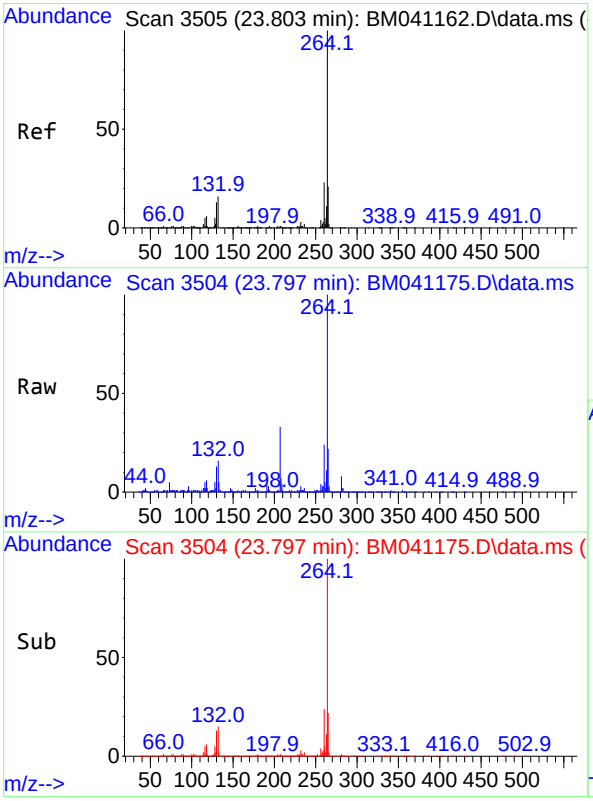
Ion	Ratio	Lower	Upper
149	100		
167	1.5	1.2	1.8
43	9.7	8.3	12.5

Instrument :
BNA_M
ClientSampleId :
SB-04-(1-5)MSD

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

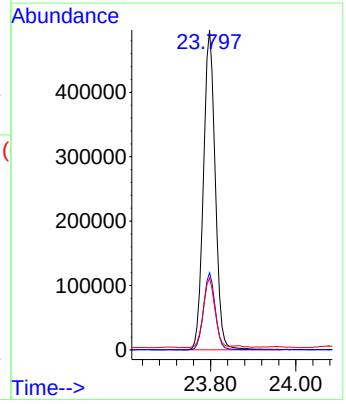


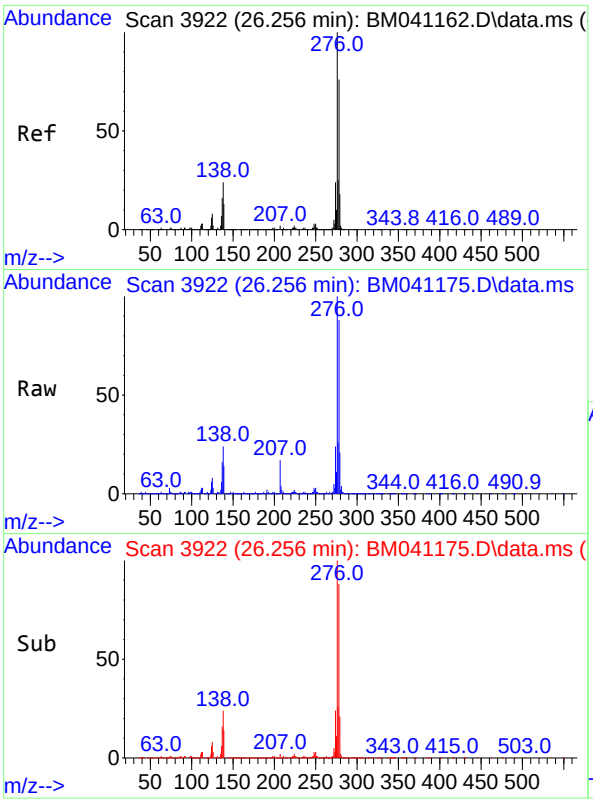


#86
Perylene-d12
Concen: 20.000 ng
RT: 23.797 min Scan# 3504
Delta R.T. -0.006 min
Lab File: BM041175.D
Acq: 28 Jul 2023 21:00

Tgt Ion:264 Resp: 953040

Ion	Ratio	Lower	Upper
264	100		
260	24.1	18.5	27.7
265	22.5	17.4	26.0

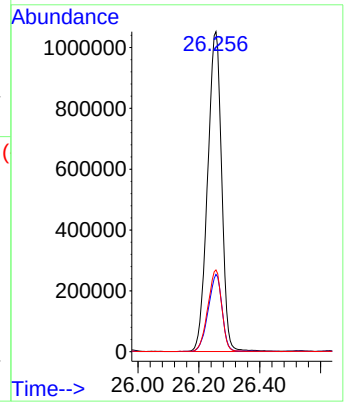




#87
Indeno(1,2,3-cd)pyrene
Concen: 47.973 ng
RT: 26.256 min Scan# 3
Delta R.T. -0.000 min
Lab File: BM041175.D
Acq: 28 Jul 2023 21:00

Tgt Ion:276 Resp: 336139

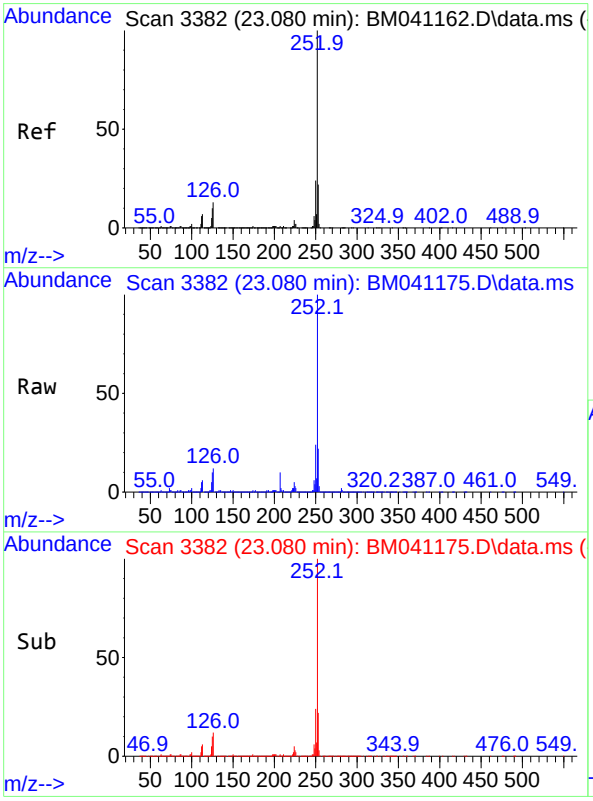
Ion	Ratio	Lower	Upper
276	100		
138	23.8	20.0	30.0
277	25.0	20.1	30.1



Instrument :
BNA_M
ClientSampleId :
SB-04-(1-5)MSD

Manual Integrations
APPROVED

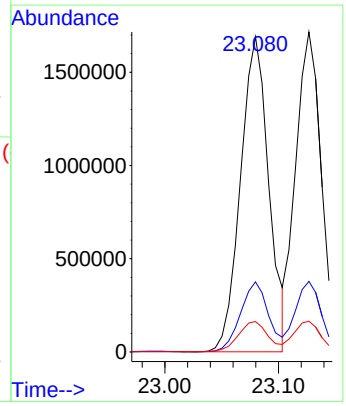
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

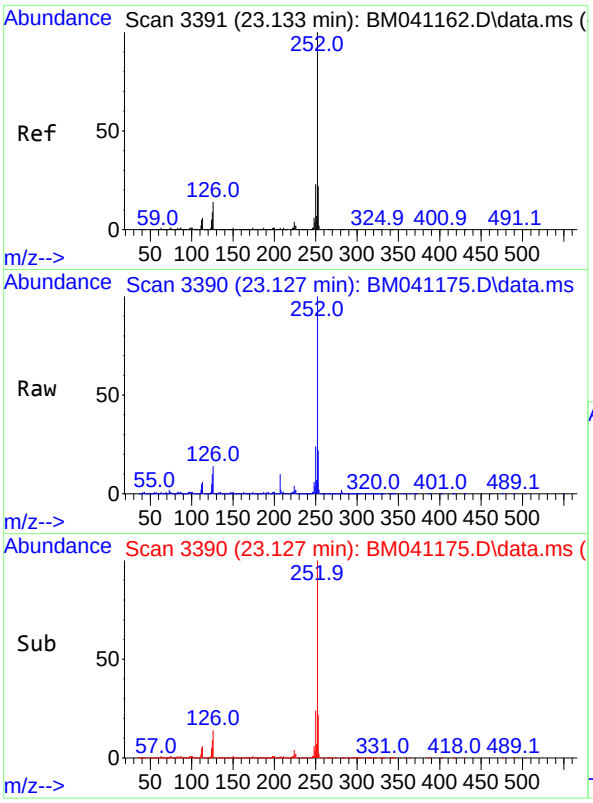


#88
Benzo(b)fluoranthene
Concen: 51.628 ng
RT: 23.080 min Scan# 3382
Delta R.T. -0.000 min
Lab File: BM041175.D
Acq: 28 Jul 2023 21:00

Tgt Ion:252 Resp: 2922970

Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.7	26.5
125	9.7	8.2	12.4

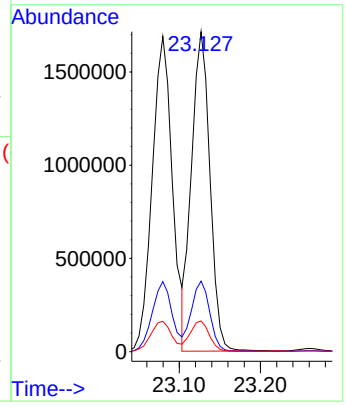




#89
Benzo(k)fluoranthene
Concen: 46.665 ng
RT: 23.127 min Scan# 3
Delta R.T. -0.006 min
Lab File: BM041175.D
Acq: 28 Jul 2023 21:00

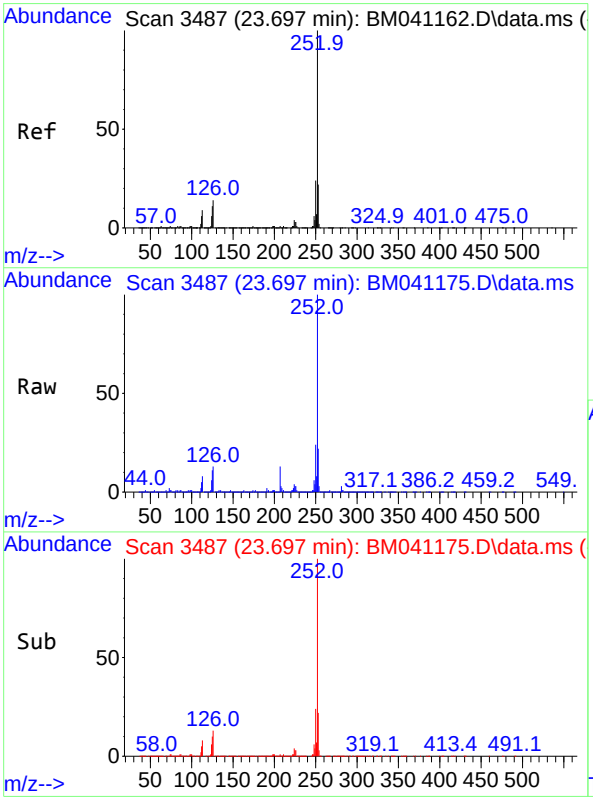
Tgt Ion:252 Resp: 270251

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.4	26.0
125	9.6	7.6	11.4



Instrument :
BNA_M
ClientSampleId :
SB-04-(1-5)MSD

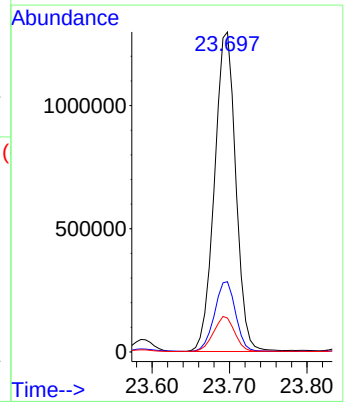
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023

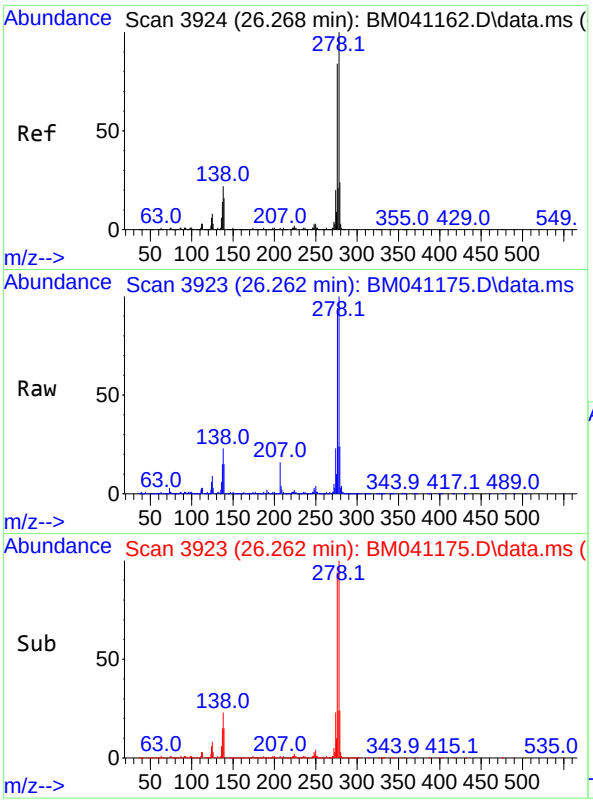


#90
Benzo(a)pyrene
Concen: 45.459 ng
RT: 23.697 min Scan# 3487
Delta R.T. -0.000 min
Lab File: BM041175.D
Acq: 28 Jul 2023 21:00

Tgt Ion:252 Resp: 2472993

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.3	25.9
125	10.6	9.0	13.4

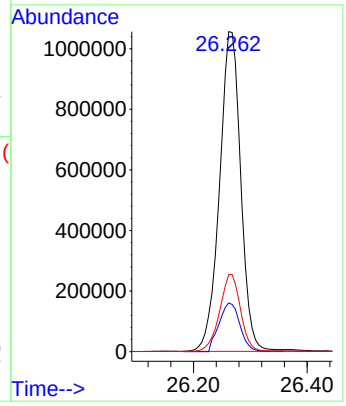




#91
Dibenzo(a,h)anthracene
Concen: 46.837 ng
RT: 26.262 min Scan# 3
Delta R.T. -0.006 min
Lab File: BM041175.D
Acq: 28 Jul 2023 21:00

Tgt Ion:278 Resp: 273728

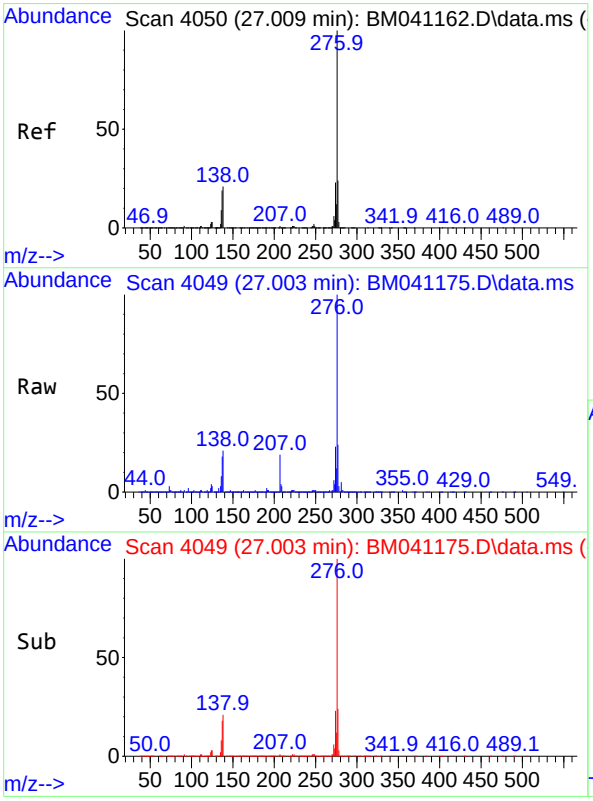
Ion	Ratio	Lower	Upper
278	100		
139	15.3	12.7	19.1
279	24.1	19.1	28.7



Instrument :
BNA_M
ClientSampleId :
SB-04-(1-5)MSD

Manual Integrations
APPROVED

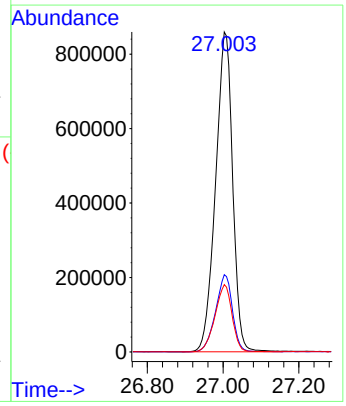
Reviewed By :Yogesh Patel 07/29/2023
Supervised By :mohammad ahmed 07/29/2023



#92
Benzo(g,h,i)perylene
Concen: 46.886 ng
RT: 27.003 min Scan# 4049
Delta R.T. -0.006 min
Lab File: BM041175.D
Acq: 28 Jul 2023 21:00

Tgt Ion:276 Resp: 2681210

Ion	Ratio	Lower	Upper
276	100		
277	24.2	19.1	28.7
138	21.1	17.1	25.7



CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Manual Integration Report

Sequence:	BF062623	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC005	BF133954.D	Pyridine	yogesh	6/27/2023 11:50:04 AM	mohammad	6/29/2023 4:09:39 PM	Peak Integrated by Software
SSTDICC010	BF133955.D	Benzoic acid	yogesh	6/27/2023 11:50:05 AM	mohammad	6/29/2023 4:09:43 PM	Peak Integrated by Software
SSTDICC010	BF133955.D	Pyridine	yogesh	6/27/2023 11:50:05 AM	mohammad	6/29/2023 4:09:43 PM	Peak Integrated by Software
SSTDICC020	BF133956.D	Benzoic acid	yogesh	6/27/2023 11:50:07 AM	mohammad	6/29/2023 4:09:46 PM	Peak Integrated by Software
SSTDICCC040	BF133957.D	Benzoic acid	yogesh	6/27/2023 11:50:09 AM	mohammad	6/29/2023 4:09:48 PM	Peak Integrated by Software
SSTDICC050	BF133958.D	Benzoic acid	yogesh	6/27/2023 11:50:10 AM	mohammad	6/29/2023 4:09:51 PM	Peak Integrated by Software
SSTDICC060	BF133959.D	Benzoic acid	yogesh	6/27/2023 11:50:12 AM	mohammad	6/29/2023 4:10:01 PM	Peak Integrated by Software
SSTDICC080	BF133960.D	Benzoic acid	yogesh	6/27/2023 11:50:13 AM	mohammad	6/29/2023 4:09:54 PM	Peak Integrated by Software
SSTDICC080	BF133960.D	Caprolactam	yogesh	6/27/2023 11:50:13 AM	mohammad	6/29/2023 4:09:54 PM	Peak Integrated by Software
SSTDICV040	BF133961.D	Benzoic acid	yogesh	6/27/2023 11:50:15 AM	mohammad	6/29/2023 4:10:04 PM	Peak Integrated by Software
SSTDCCC040	BF133969.D	Benzoic acid	yogesh	6/27/2023 11:50:19 AM	mohammad	6/29/2023 4:10:12 PM	Peak Integrated by Software

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Manual Integration Report

Sequence:	bf071923	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC040	BF134355.D	Benzo(k)fluoranthene	yogesh	7/20/2023 3:37:26 PM	mohammad	7/20/2023 5:00:58 PM	Peak Integrated by Software
SSTDCCC040	BF134355.D	Benzoic acid	yogesh	7/20/2023 3:37:26 PM	mohammad	7/20/2023 5:00:58 PM	Peak Integrated by Software
PB154258BS	BF134357.D	Benzo(k)fluoranthene	yogesh	7/20/2023 3:37:25 PM	mohammad	7/20/2023 5:01:01 PM	Peak Integrated by Software
PB154258BS	BF134357.D	Caprolactam	yogesh	7/20/2023 3:37:25 PM	mohammad	7/20/2023 5:01:01 PM	Peak Integrated by Software

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Manual Integration Report

Sequence:	BF072423	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC005	BF134428.D	Benzoic acid	yogesh	7/25/2023 7:25:20 AM	mohammad	7/25/2023 7:42:30 AM	Peak Integrated by Software
SSTDICC005	BF134428.D	n-Nitrosodimethylamine	yogesh	7/25/2023 7:25:20 AM	mohammad	7/25/2023 7:42:30 AM	Peak Integrated by Software
SSTDICC005	BF134428.D	Pyridine	yogesh	7/25/2023 7:25:20 AM	mohammad	7/25/2023 7:42:30 AM	Peak Integrated by Software
SSTDICC010	BF134429.D	2,3,4,6-Tetrachlorophenol	yogesh	7/25/2023 7:25:22 AM	mohammad	7/25/2023 7:42:34 AM	Peak Integrated by Software
SSTDICC010	BF134429.D	Benzoic acid	yogesh	7/25/2023 7:25:22 AM	mohammad	7/25/2023 7:42:34 AM	Peak Integrated by Software
SSTDICC010	BF134429.D	Benzyl Alcohol	yogesh	7/25/2023 7:25:22 AM	mohammad	7/25/2023 7:42:34 AM	Peak Integrated by Software
SSTDICC010	BF134429.D	n-Nitrosodimethylamine	yogesh	7/25/2023 7:25:22 AM	mohammad	7/25/2023 7:42:34 AM	Peak Integrated by Software
SSTDICC010	BF134429.D	Pentachlorophenol	yogesh	7/25/2023 7:25:22 AM	mohammad	7/25/2023 7:42:34 AM	Peak Integrated by Software
SSTDICC010	BF134429.D	Pyridine	yogesh	7/25/2023 7:25:22 AM	mohammad	7/25/2023 7:42:34 AM	Peak Integrated by Software
SSTDICC020	BF134430.D	2,3,4,6-Tetrachlorophenol	yogesh	7/25/2023 7:25:24 AM	mohammad	7/25/2023 7:42:38 AM	Peak Integrated by Software
SSTDICC020	BF134430.D	Benzo(k)fluoranthene	yogesh	7/25/2023 7:25:24 AM	mohammad	7/25/2023 7:42:38 AM	Peak Integrated by Software
SSTDICC020	BF134430.D	Benzoic acid	yogesh	7/25/2023 7:25:24 AM	mohammad	7/25/2023 7:42:38 AM	Peak Integrated by Software
SSTDICC020	BF134430.D	Pyridine	yogesh	7/25/2023 7:25:24 AM	mohammad	7/25/2023 7:42:38 AM	Peak Integrated by Software

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Manual Integration Report

Sequence:	BF072423	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICCC040	BF134431.D	2,3,4,6-Tetrachlorophenol	yogesh	7/25/2023 7:25:25 AM	mohammad	7/25/2023 7:42:42 AM	Peak Integrated by Software
SSTDICC050	BF134432.D	2,3,4,6-Tetrachlorophenol	yogesh	7/25/2023 7:25:26 AM	mohammad	7/25/2023 7:42:45 AM	Peak Integrated by Software
SSTDICC060	BF134433.D	2,3,4,6-Tetrachlorophenol	yogesh	7/25/2023 7:25:28 AM	mohammad	7/25/2023 7:42:48 AM	Peak Integrated by Software
SSTDICC060	BF134433.D	4-Nitroaniline	yogesh	7/25/2023 7:25:28 AM	mohammad	7/25/2023 7:42:48 AM	Peak Integrated by Software
SSTDICC060	BF134433.D	Benzoic acid	yogesh	7/25/2023 7:25:28 AM	mohammad	7/25/2023 7:42:48 AM	Peak Integrated by Software
SSTDICC060	BF134433.D	Caprolactam	yogesh	7/25/2023 7:25:28 AM	mohammad	7/25/2023 7:42:48 AM	Peak Integrated by Software
SSTDICC080	BF134434.D	2,3,4,6-Tetrachlorophenol	yogesh	7/25/2023 7:25:30 AM	mohammad	7/25/2023 7:42:53 AM	Peak Integrated by Software
SSTDICC080	BF134434.D	4-Nitroaniline	yogesh	7/25/2023 7:25:30 AM	mohammad	7/25/2023 7:42:53 AM	Peak Integrated by Software
SSTDICC080	BF134434.D	Benzoic acid	yogesh	7/25/2023 7:25:30 AM	mohammad	7/25/2023 7:42:53 AM	Peak Integrated by Software
SSTDICC080	BF134434.D	Caprolactam	yogesh	7/25/2023 7:25:30 AM	mohammad	7/25/2023 7:42:53 AM	Peak Integrated by Software
SSTDICV040	BF134435.D	2,3,4,6-Tetrachlorophenol	yogesh	7/25/2023 7:25:31 AM	mohammad	7/25/2023 7:42:57 AM	Peak Integrated by Software
SSTDICV040	BF134435.D	4-Nitroaniline	yogesh	7/25/2023 7:25:31 AM	mohammad	7/25/2023 7:42:57 AM	Peak Integrated by Software
SSTDCCC040	BF134438.D	2,3,4,6-Tetrachlorophenol	yogesh	7/25/2023 7:25:33 AM	mohammad	7/25/2023 7:43:00 AM	Peak Integrated by Software

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Manual Integration Report

Sequence:	BF072423	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Manual Integration Report

Sequence:	BF072823	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC040	BF134518.D	2,3,4,6-Tetrachlorophenol	yogesh	7/29/2023 4:50:51 AM	mohammad	7/31/2023 2:24:45 AM	Peak Integrated by Software

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Manual Integration Report

Sequence:	BF080123	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC005	BF134537.D	2,3,4,6-Tetrachlorophenol	YOGESH	8/2/2023 8:04:23 AM	mohammad	8/2/2023 4:06:55 PM	Peak Integrated by Software
SSTDICC010	BF134538.D	2,3,4,6-Tetrachlorophenol	YOGESH	8/2/2023 8:04:25 AM	mohammad	8/2/2023 4:07:02 PM	Peak Integrated by Software
SSTDICC020	BF134539.D	2,3,4,6-Tetrachlorophenol	YOGESH	8/2/2023 8:05:09 AM	mohammad	8/2/2023 4:07:04 PM	Peak Integrated by Software
SSTDICC020	BF134539.D	Caprolactam	YOGESH	8/2/2023 8:05:09 AM	mohammad	8/2/2023 4:07:04 PM	Peak Integrated by Software
SSTDICC050	BF134541.D	Phenol	YOGESH	8/2/2023 8:04:28 AM	mohammad	8/2/2023 4:07:07 PM	Peak Integrated by Software
SSTDICC060	BF134542.D	Caprolactam	YOGESH	8/2/2023 8:04:30 AM	mohammad	8/2/2023 4:07:10 PM	Peak Integrated by Software
SSTDICC060	BF134542.D	Phenol	YOGESH	8/2/2023 8:04:30 AM	mohammad	8/2/2023 4:07:10 PM	Peak Integrated by Software
SSTDICC080	BF134543.D	2,4-Dimethylphenol	YOGESH	8/2/2023 8:04:32 AM	mohammad	8/2/2023 4:07:13 PM	Peak Integrated by Software
SSTDICC080	BF134543.D	Caprolactam	YOGESH	8/2/2023 8:04:32 AM	mohammad	8/2/2023 4:07:13 PM	Peak Integrated by Software
SSTDICC080	BF134543.D	Phenol	YOGESH	8/2/2023 8:04:32 AM	mohammad	8/2/2023 4:07:13 PM	Peak Integrated by Software
SSTDICV040	BF134544.D	2,3,4,6-Tetrachlorophenol	YOGESH	8/2/2023 8:05:02 AM	mohammad	8/2/2023 4:07:16 PM	Peak Integrated by Software
SSTDICV040	BF134544.D	Phenol	YOGESH	8/2/2023 8:05:02 AM	mohammad	8/2/2023 4:07:16 PM	Peak Integrated by Software
SSTDCCC040	BF134547.D	2,3,4,6-Tetrachlorophenol	YOGESH	8/2/2023 8:04:33 AM	mohammad	8/2/2023 4:07:21 PM	Peak Integrated by Software

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Manual Integration Report

Sequence:	BF080123	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC040	BF134547.D	Phenol	YOGESH	8/2/2023 8:04:33 AM	mohammad	8/2/2023 4:07:21 PM	Peak Integrated by Software
O3645-04	BF134556.D	Benzo(b)fluoranthene	YOGESH	8/2/2023 8:04:35 AM	mohammad	8/2/2023 4:07:24 PM	Peak Integrated by Software
O3645-04	BF134556.D	Benzo(k)fluoranthene	YOGESH	8/2/2023 8:04:35 AM	mohammad	8/2/2023 4:07:24 PM	Peak Integrated by Software
O3645-02	BF134557.D	Benzo(b)fluoranthene	YOGESH	8/2/2023 8:04:37 AM	mohammad	8/2/2023 4:07:29 PM	Peak Integrated by Software
O3645-06DL	BF134565.D	Benzo(b)fluoranthene	YOGESH	8/2/2023 8:04:44 AM	mohammad	8/2/2023 4:07:38 PM	Peak Integrated by Software
O3645-06DL	BF134565.D	Benzo(k)fluoranthene	YOGESH	8/2/2023 8:04:44 AM	mohammad	8/2/2023 4:07:38 PM	Peak Integrated by Software
O3645-06	BF134566.D	Benzo(b)fluoranthene	YOGESH	8/2/2023 8:04:46 AM	mohammad	8/2/2023 4:07:41 PM	Peak Integrated by Software
O3645-06	BF134566.D	Benzo(k)fluoranthene	YOGESH	8/2/2023 8:04:46 AM	mohammad	8/2/2023 4:07:41 PM	Peak Integrated by Software
O3645-06	BF134566.D	Chrysene	YOGESH	8/2/2023 8:04:46 AM	mohammad	8/2/2023 4:07:41 PM	Peak Integrated by Software

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Manual Integration Report

Sequence:	BG072823	Instrument	BNA_g

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC005	BG058511.D	3-Nitroaniline	yogesh	7/29/2023 4:49:41 AM	mohammad	7/29/2023 5:31:58 AM	Peak Integrated by Software
SSTDICC005	BG058511.D	4-Nitroaniline	yogesh	7/29/2023 4:49:41 AM	mohammad	7/29/2023 5:31:58 AM	Peak Integrated by Software
SSTDICC010	BG058512.D	2,2"-oxybis(1-Chloropropane)	yogesh	7/29/2023 4:49:45 AM	mohammad	7/29/2023 5:32:00 AM	Peak Integrated by Software
SSTDICC010	BG058512.D	4-Nitrophenol	yogesh	7/29/2023 4:49:45 AM	mohammad	7/29/2023 5:32:00 AM	Peak Integrated by Software
SSTDICC010	BG058512.D	Benzoic acid	yogesh	7/29/2023 4:49:45 AM	mohammad	7/29/2023 5:32:00 AM	Peak Integrated by Software
SSTDICC010	BG058512.D	Pentachlorophenol	yogesh	7/29/2023 4:49:45 AM	mohammad	7/29/2023 5:32:00 AM	Peak Integrated by Software
SSTDICC020	BG058513.D	Benzaldehyde	yogesh	7/29/2023 4:50:02 AM	mohammad	7/29/2023 5:32:03 AM	Peak Integrated by Software
SSTDICC060	BG058516.D	Caprolactam	yogesh	7/29/2023 4:50:04 AM	mohammad	7/29/2023 5:32:06 AM	Peak Integrated by Software
SSTDICC080	BG058517.D	Caprolactam	yogesh	7/29/2023 4:50:06 AM	mohammad	7/29/2023 5:32:09 AM	Peak Integrated by Software

CHEMTECH

Manual Integration Report

Sequence:	bg080223	Instrument	BNA_g

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Manual Integration Report

Sequence:	BM072823	Instrument	BNA_m

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC005	BM041159.D	2,2"-oxybis(1-Chloropropane)	yogesh	7/29/2023 4:55:24 AM	mohammad	7/29/2023 7:56:42 AM	Peak Integrated by Software
SSTDICC005	BM041159.D	4-Nitroaniline	yogesh	7/29/2023 4:55:24 AM	mohammad	7/29/2023 7:56:42 AM	Peak Integrated by Software
SSTDICC005	BM041159.D	Benzidine	yogesh	7/29/2023 4:55:24 AM	mohammad	7/29/2023 7:56:42 AM	Peak Integrated by Software
SSTDICC010	BM041160.D	2,2"-oxybis(1-Chloropropane)	yogesh	7/29/2023 4:55:26 AM	mohammad	7/29/2023 7:56:47 AM	Peak Integrated by Software
SSTDICC010	BM041160.D	Caprolactam	yogesh	7/29/2023 4:55:26 AM	mohammad	7/29/2023 7:56:47 AM	Peak Integrated by Software
SSTDICC020	BM041161.D	2,2"-oxybis(1-Chloropropane)	yogesh	7/29/2023 4:55:28 AM	mohammad	7/29/2023 7:56:51 AM	Peak Integrated by Software
SSTDICCC040	BM041162.D	Pyridine	yogesh	7/29/2023 4:55:30 AM	mohammad	7/29/2023 7:56:54 AM	Peak Integrated by Software
SSTDICC050	BM041163.D	Benzaldehyde	yogesh	7/29/2023 4:55:31 AM	mohammad	7/29/2023 7:56:58 AM	Peak Integrated by Software
SSTDICC050	BM041163.D	Pyridine	yogesh	7/29/2023 4:55:31 AM	mohammad	7/29/2023 7:56:58 AM	Peak Integrated by Software
SSTDICC060	BM041164.D	Benzaldehyde	yogesh	7/29/2023 4:55:33 AM	mohammad	7/29/2023 7:57:01 AM	Peak Integrated by Software
SSTDICC060	BM041164.D	Pyridine	yogesh	7/29/2023 4:55:33 AM	mohammad	7/29/2023 7:57:01 AM	Peak Integrated by Software
SSTDICC080	BM041165.D	Pyridine	yogesh	7/29/2023 4:55:35 AM	mohammad	7/29/2023 7:57:04 AM	Peak Integrated by Software
SSTDICV040	BM041166.D	Pyridine	yogesh	7/29/2023 4:55:37 AM	mohammad	7/29/2023 7:57:07 AM	Peak Integrated by Software

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Manual Integration Report

Sequence:	BM072823	Instrument	BNA_m

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC040	BM041169.D	2,2"-oxybis(1-Chloropropane)	yogesh	7/29/2023 4:55:38 AM	mohammad	7/29/2023 7:57:12 AM	Peak Integrated by Software
O3645-09MS	BM041174.D	Benzaldehyde	yogesh	7/29/2023 4:55:40 AM	mohammad	7/29/2023 7:57:14 AM	Peak Integrated by Software
O3645-09MS	BM041174.D	Caprolactam	yogesh	7/29/2023 4:55:40 AM	mohammad	7/29/2023 7:57:14 AM	Peak Integrated by Software
O3645-09MS	BM041174.D	Pyridine	yogesh	7/29/2023 4:55:40 AM	mohammad	7/29/2023 7:57:14 AM	Peak Integrated by Software
O3645-10MSD	BM041175.D	Benzaldehyde	yogesh	7/29/2023 4:55:43 AM	mohammad	7/29/2023 7:57:36 AM	Peak Integrated by Software
O3645-10MSD	BM041175.D	Caprolactam	yogesh	7/29/2023 4:55:43 AM	mohammad	7/29/2023 7:57:36 AM	Peak Integrated by Software
O3645-10MSD	BM041175.D	Pyridine	yogesh	7/29/2023 4:55:43 AM	mohammad	7/29/2023 7:57:36 AM	Peak Integrated by Software

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Manual Integration Report

Sequence:	BP072723	Instrument	BNA_p

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC005	BP016394.D	Benzo(b)fluoranthene	yogesh	7/28/2023 7:06:02 AM	mohammad	7/28/2023 7:19:49 AM	Peak Integrated by Software
SSTDICC060	BP016399.D	Pyridine	yogesh	7/28/2023 7:06:03 AM	mohammad	7/28/2023 7:19:53 AM	Peak Integrated by Software
SSTDICC080	BP016400.D	Caprolactam	yogesh	7/28/2023 7:06:05 AM	mohammad	7/28/2023 7:19:56 AM	Peak Integrated by Software
SSTDICC080	BP016400.D	Pyridine	yogesh	7/28/2023 7:06:05 AM	mohammad	7/28/2023 7:19:56 AM	Peak Integrated by Software

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Manual Integration Report

Sequence:	BP072823	Instrument	BNA_p

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC040	BP016411.D	Benzo(k)fluoranthene	yogesh	7/29/2023 4:51:53 AM	mohammad	7/29/2023 5:33:14 AM	Peak Integrated by Software
PB154218BS	BP016413.D	Caprolactam	yogesh	7/29/2023 5:30:33 AM	mohammad	7/29/2023 5:33:18 AM	Peak Integrated by Software
PB154218BSD	BP016414.D	Caprolactam	yogesh	7/29/2023 5:30:35 AM	mohammad	7/29/2023 5:33:20 AM	Peak Integrated by Software

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF062623

Review By	yogesh	Review On	6/27/2023 11:54:05 AM		
Supervise By	mohammad	Supervise On	6/29/2023 4:10:25 PM		
SubDirectory	BF062623	HP Acquire Method	BNA_F	HP Processing Method	BF062623

STD. NAME	STD REF.#
Tune/Reschk	SP6125
Initial Calibration Stds	SP6228,SP6229,SP6230,SP6231,SP6232,SP6233,SP6234,SP6235,SP6236
CCC	SP6232
Internal Standard/PEM	S11202 10ul/1000ul sample
ICV/I.BLK	SP6217
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF133952.D	26 Jun 2023 14:41	CG\JU	Ok
2	SSTDICC2.5	BF133953.D	26 Jun 2023 15:19	CG\JU	Ok
3	SSTDICC005	BF133954.D	26 Jun 2023 15:53	CG\JU	Ok,M
4	SSTDICC010	BF133955.D	26 Jun 2023 16:27	CG\JU	Ok,M
5	SSTDICC020	BF133956.D	26 Jun 2023 17:02	CG\JU	Ok,M
6	SSTDICCC040	BF133957.D	26 Jun 2023 17:37	CG\JU	Ok,M
7	SSTDICC050	BF133958.D	26 Jun 2023 18:12	CG\JU	Ok,M
8	SSTDICC060	BF133959.D	26 Jun 2023 18:47	CG\JU	Ok,M
9	SSTDICC080	BF133960.D	26 Jun 2023 19:21	CG\JU	Ok,M
10	SSTDICV040	BF133961.D	26 Jun 2023 19:56	CG\JU	Ok,M
11	PB153526BL	BF133962.D	26 Jun 2023 20:29	CG\JU	Ok
12	O3369-01	BF133963.D	26 Jun 2023 21:03	CG\JU	Dilution
13	O3367-01	BF133964.D	26 Jun 2023 21:36	CG\JU	Ok,M
14	O3365-13	BF133965.D	26 Jun 2023 22:09	CG\JU	Ok
15	O3365-24	BF133966.D	26 Jun 2023 22:42	CG\JU	Ok
16	O3365-33	BF133967.D	26 Jun 2023 23:16	CG\JU	Ok
17	DFTPP	BF133968.D	27 Jun 2023 00:54	CG\JU	Ok
18	SSTDCCC040	BF133969.D	27 Jun 2023 01:59	CG\JU	Ok,M
19	PB153762BL	BF133970.D	27 Jun 2023 03:07	CG\JU	Not Ok
20	O3365-01	BF133971.D	27 Jun 2023 03:40	CG\JU	ReRun
21	O3365-02	BF133972.D	27 Jun 2023 04:12	CG\JU	ReRun
22	O3365-03	BF133973.D	27 Jun 2023 04:44	CG\JU	ReRun
23	O3337-02	BF133974.D	27 Jun 2023 05:16	CG\JU	Ok

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF062623

Review By	yogesh	Review On	6/27/2023 11:54:05 AM		
Supervise By	mohammad	Supervise On	6/29/2023 4:10:25 PM		
SubDirectory	BF062623	HP Acquire Method	BNA_F	HP Processing Method	BF062623

STD. NAME	STD REF.#
Tune/Reschk	SP6125
Initial Calibration Stds	SP6228,SP6229,SP6230,SP6231,SP6232,SP6233,SP6234,SP6235,SP6236
CCC	SP6232
Internal Standard/PEM	S11202 10ul/1000ul sample
ICV/I.BLK	SP6217
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

24	O3336-17	BF133975.D	27 Jun 2023 05:49	CG\JU	Ok
25	O3337-05	BF133976.D	27 Jun 2023 06:21	CG\JU	Ok
26	O3336-14	BF133977.D	27 Jun 2023 06:53	CG\JU	Ok
27	O3336-11	BF133978.D	27 Jun 2023 07:25	CG\JU	Ok
28	O3336-08	BF133979.D	27 Jun 2023 07:58	CG\JU	Ok
29	O3336-05	BF133980.D	27 Jun 2023 08:30	CG\JU	Ok
30	O3336-02	BF133981.D	27 Jun 2023 09:03	CG\JU	Ok

M : Manual Integration

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF071923

Review By	yogesh	Review On	7/19/2023 3:26:32 PM		
Supervise By	mohammad	Supervise On	7/20/2023 5:01:30 PM		
SubDirectory	BF071923	HP Acquire Method	BNA_F	HP Processing Method	BF062623

STD. NAME	STD REF.#
Tune/Reschk	SP6125
Initial Calibration Stds	SP6228,SP6229,SP6230,SP6231,SP6232,SP6233,SP6234,SP6235,SP6236
CCC	SP6232
Internal Standard/PEM	S11207 10ul/1000ul sample
ICV/I.BLK	SP6217
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF134354.D	19 Jul 2023 12:29	CG\JU	Ok
2	SSTDCCC040	BF134355.D	19 Jul 2023 13:01	CG\JU	Ok,M
3	PB154258BL	BF134356.D	19 Jul 2023 13:34	CG\JU	Ok
4	PB154258BS	BF134357.D	19 Jul 2023 14:07	CG\JU	Ok,M
5	O3597-18	BF134358.D	19 Jul 2023 14:45	CG\JU	Ok
6	O3597-10	BF134359.D	19 Jul 2023 15:17	CG\JU	Ok,M
7	O3597-20	BF134360.D	19 Jul 2023 15:50	CG\JU	Ok,M
8	O3599-01	BF134361.D	19 Jul 2023 16:23	CG\JU	Ok
9	O3597-13	BF134362.D	19 Jul 2023 16:56	CG\JU	Ok,M
10	O3597-14	BF134363.D	19 Jul 2023 17:30	CG\JU	Ok,M
11	O3597-15	BF134364.D	19 Jul 2023 18:05	CG\JU	Ok
12	O3599-02	BF134365.D	19 Jul 2023 18:38	CG\JU	Ok
13	O3637-01	BF134366.D	19 Jul 2023 19:12	CG\JU	Ok
14	O3641-31	BF134367.D	19 Jul 2023 19:45	CG\JU	Ok,M
15	O3641-01	BF134368.D	19 Jul 2023 20:18	CG\JU	Ok,M
16	O3641-11	BF134369.D	19 Jul 2023 20:52	CG\JU	Ok
17	O3687-01	BF134370.D	19 Jul 2023 21:24	CG\JU	Ok
18	O3639-21	BF134371.D	19 Jul 2023 21:57	CG\JU	Ok
19	O3639-21MS	BF134372.D	19 Jul 2023 22:31	CG\JU	Ok,M
20	O3639-21MSD	BF134373.D	19 Jul 2023 23:04	CG\JU	Ok,M

M : Manual Integration

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF072423

Review By	yogesh	Review On	7/24/2023 3:55:42 PM		
Supervise By	mohammad	Supervise On	7/25/2023 7:43:42 AM		
SubDirectory	BF072423	HP Acquire Method	BNA_F	HP Processing Method	BF072423

STD. NAME	STD REF.#
Tune/Reschk	SP6125
Initial Calibration Stds	SP6228,SP6229,SP6230,SP6231,SP6232,SP6233,SP6234,SP6235,SP6236
CCC	
Internal Standard/PEM	S11207 10ul/1000ul sample
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF134425.D	24 Jul 2023 12:41	CG\JU	Ok
2	SSTDCCC040	BF134426.D	24 Jul 2023 13:13	CG\JU	Not Ok
3	SSTDICC2.5	BF134427.D	24 Jul 2023 13:46	CG\JU	Ok
4	SSTDICC005	BF134428.D	24 Jul 2023 14:19	CG\JU	Ok,M
5	SSTDICC010	BF134429.D	24 Jul 2023 14:53	CG\JU	Ok,M
6	SSTDICC020	BF134430.D	24 Jul 2023 15:28	CG\JU	Ok,M
7	SSTDICCC040	BF134431.D	24 Jul 2023 16:02	CG\JU	Ok,M
8	SSTDICC050	BF134432.D	24 Jul 2023 16:36	CG\JU	Ok,M
9	SSTDICC060	BF134433.D	24 Jul 2023 17:10	CG\JU	Ok,M
10	SSTDICC080	BF134434.D	24 Jul 2023 17:44	CG\JU	Ok,M
11	SSTDICV040	BF134435.D	24 Jul 2023 18:16	CG\JU	Ok,M
12	PB154085BL	BF134436.D	24 Jul 2023 18:49	CG\JU	Not Ok
13	DFTPP	BF134437.D	24 Jul 2023 19:22	CG\JU	Not Ok
14	SSTDCCC040	BF134438.D	24 Jul 2023 20:03	CG\JU	Ok,M
15	PB154372BL	BF134439.D	24 Jul 2023 20:38	CG\JU	Ok
16	O3683-01	BF134440.D	24 Jul 2023 21:11	CG\JU	Ok
17	O3653-11	BF134441.D	24 Jul 2023 21:43	CG\JU	Ok
18	O3670-01	BF134442.D	24 Jul 2023 22:17	CG\JU	Ok
19	O3652-01	BF134443.D	24 Jul 2023 22:50	CG\JU	Ok
20	O3652-21	BF134444.D	24 Jul 2023 23:22	CG\JU	Ok
21	O3668-05	BF134445.D	24 Jul 2023 23:55	CG\JU	Ok,M
22	O3680-01	BF134446.D	25 Jul 2023 00:27	CG\JU	Ok
23	O3680-01MS	BF134447.D	25 Jul 2023 01:00	CG\JU	Ok,M

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF072423

Review By	yogesh	Review On	7/24/2023 3:55:42 PM		
Supervise By	mohammad	Supervise On	7/25/2023 7:43:42 AM		
SubDirectory	BF072423	HP Acquire Method	BNA_F	HP Processing Method	BF072423

STD. NAME	STD REF.#
Tune/Reschk	SP6125
Initial Calibration Stds	SP6228,SP6229,SP6230,SP6231,SP6232,SP6233,SP6234,SP6235,SP6236
CCC	
Internal Standard/PEM	S11207 10ul/1000ul sample
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

24	O3680-01MSD	BF134448.D	25 Jul 2023 01:31	CG\JU	Ok,M
25	O3646-01	BF134449.D	25 Jul 2023 02:04	CG\JU	Ok
26	O3646-04	BF134450.D	25 Jul 2023 02:36	CG\JU	Ok
27	O3652-11	BF134451.D	25 Jul 2023 03:08	CG\JU	Ok,M
28	O3653-01	BF134452.D	25 Jul 2023 03:40	CG\JU	Ok
29	O3685-01	BF134453.D	25 Jul 2023 04:12	CG\JU	Ok,M
30	O3653-21	BF134454.D	25 Jul 2023 04:44	CG\JU	Ok
31	O3640-31	BF134455.D	25 Jul 2023 05:15	CG\JU	Not Ok
32	O3659-01	BF134456.D	25 Jul 2023 05:47	CG\JU	Ok,M
33	O3659-03	BF134457.D	25 Jul 2023 06:19	CG\JU	Ok,M

M : Manual Integration

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF072823

Review By	yogesh	Review On	7/29/2023 4:51:15 AM		
Supervise By	mohammad	Supervise On	7/31/2023 2:25:12 AM		
SubDirectory	BF072823	HP Acquire Method	BNA_F	HP Processing Method	BF072423

STD. NAME	STD REF.#
Tune/Reschk	SP6125
Initial Calibration Stds	SP6228,SP6229,SP6230,SP6231,SP6232,SP6233,SP6234,SP6235,SP6236
CCC	SP6232
Internal Standard/PEM	S11207 10ul/1000ul sample
ICV/I.BLK	SP6217
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF134517.D	28 Jul 2023 15:21	CG\JU	Ok
2	SSTDCCC040	BF134518.D	28 Jul 2023 16:29	CG\JU	Ok,M
3	PB154028BL	BF134519.D	28 Jul 2023 17:05	CG\JU	Ok
4	O3719-05	BF134520.D	28 Jul 2023 17:41	CG\JU	Ok
5	O3777-01	BF134521.D	28 Jul 2023 18:16	CG\JU	Ok,M
6	O3773-01	BF134522.D	28 Jul 2023 18:50	CG\JU	Ok,M
7	O3791-01	BF134523.D	28 Jul 2023 19:23	CG\JU	Ok,M
8	O3753-01	BF134524.D	28 Jul 2023 19:59	CG\JU	Ok,M
9	O3645-05	BF134525.D	28 Jul 2023 20:32	CG\JU	ReRun
10	O3742-08	BF134526.D	28 Jul 2023 21:06	CG\JU	ReRun
11	O3645-01	BF134527.D	28 Jul 2023 21:40	CG\JU	Ok
12	O3645-08	BF134528.D	28 Jul 2023 22:17	CG\JU	Ok
13	O3645-07	BF134529.D	28 Jul 2023 22:55	CG\JU	ReRun
14	O3742-03	BF134530.D	28 Jul 2023 23:36	CG\JU	ReRun
15	O3645-03	BF134531.D	29 Jul 2023 00:10	CG\JU	Ok
16	O3733-01	BF134532.D	29 Jul 2023 00:42	CG\JU	Ok
17	O3770-10	BF134533.D	29 Jul 2023 01:15	CG\JU	ReRun
18	O3770-07	BF134534.D	29 Jul 2023 01:48	CG\JU	ReRun

M : Manual Integration

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF080123

Review By	yogesh	Review On	8/1/2023 1:13:33 PM		
Supervise By	mohammad	Supervise On	8/2/2023 4:07:56 PM		
SubDirectory	BF080123	HP Acquire Method	BNA_F	HP Processing Method	BF080123

STD. NAME	STD REF.#
Tune/Reschk	SP6125
Initial Calibration Stds	SP6228,SP6229,SP6230,SP6231,SP6232,SP6233,SP6234,SP6235,SP6236
CCC	SP6232
Internal Standard/PEM	S11212 10ul/1000ul sample
ICV/I.BLK	SP6217
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF134535.D	01 Aug 2023 07:20	CG\JU	Ok
2	SSTDICC2.5	BF134536.D	01 Aug 2023 07:51	CG\JU	Ok
3	SSTDICC005	BF134537.D	01 Aug 2023 08:22	CG\JU	Ok,M
4	SSTDICC010	BF134538.D	01 Aug 2023 08:54	CG\JU	Ok,M
5	SSTDICC020	BF134539.D	01 Aug 2023 09:24	CG\JU	Ok,M
6	SSTDICCC040	BF134540.D	01 Aug 2023 10:12	CG\JU	Ok
7	SSTDICC050	BF134541.D	01 Aug 2023 10:44	CG\JU	Ok,M
8	SSTDICC060	BF134542.D	01 Aug 2023 11:15	CG\JU	Ok,M
9	SSTDICC080	BF134543.D	01 Aug 2023 11:47	CG\JU	Ok,M
10	SSTDICV040	BF134544.D	01 Aug 2023 12:50	CG\JU	Ok,M
11	PB154403BL	BF134545.D	01 Aug 2023 13:23	CG\JU	Ok
12	DFTPP	BF134546.D	01 Aug 2023 13:54	CG\JU	Ok
13	SSTDCCC040	BF134547.D	01 Aug 2023 14:27	CG\JU	Ok,M
14	PB154429BL	BF134548.D	01 Aug 2023 15:00	CG\JU	Ok
15	O3810-06	BF134549.D	01 Aug 2023 15:37	CG\JU	Ok
16	O3741-02RE	BF134550.D	01 Aug 2023 16:09	CG\JU	Confirms
17	O3742-08RE	BF134551.D	01 Aug 2023 16:43	CG\JU	Confirms
18	O3784-01	BF134552.D	01 Aug 2023 17:15	CG\JU	Ok
19	O3781-01	BF134553.D	01 Aug 2023 17:47	CG\JU	Ok
20	O3741-12RE	BF134554.D	01 Aug 2023 18:20	CG\JU	Confirms
21	O3741-06RE	BF134555.D	01 Aug 2023 18:52	CG\JU	Confirms
22	O3645-04	BF134556.D	01 Aug 2023 19:24	CG\JU	Ok,M
23	O3645-02	BF134557.D	01 Aug 2023 19:56	CG\JU	Ok,M

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF080123

Review By	yogesh	Review On	8/1/2023 1:13:33 PM		
Supervise By	mohammad	Supervise On	8/2/2023 4:07:56 PM		
SubDirectory	BF080123	HP Acquire Method	BNA_F	HP Processing Method	BF080123

STD. NAME	STD REF.#
Tune/Reschk	SP6125
Initial Calibration Stds	SP6228,SP6229,SP6230,SP6231,SP6232,SP6233,SP6234,SP6235,SP6236
CCC	SP6232
Internal Standard/PEM	S11212 10ul/1000ul sample
ICV/I.BLK	SP6217
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

24	O3741-10RE	BF134558.D	01 Aug 2023 20:28	CG\JU	Confirms
25	O3741-13RE	BF134559.D	01 Aug 2023 20:59	CG\JU	Confirms
26	O3741-01RE	BF134560.D	01 Aug 2023 21:31	CG\JU	Confirms
27	O3741-04RE	BF134561.D	01 Aug 2023 22:03	CG\JU	Confirms
28	O3741-14RE	BF134562.D	01 Aug 2023 22:34	CG\JU	Confirms
29	O3770-07	BF134563.D	01 Aug 2023 23:06	CG\JU	Ok
30	O3770-10	BF134564.D	01 Aug 2023 23:37	CG\JU	Ok
31	O3645-06DL	BF134565.D	02 Aug 2023 00:09	CG\JU	Ok,M
32	O3645-06	BF134566.D	02 Aug 2023 00:41	CG\JU	Dilution

M : Manual Integration

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Instrument ID: BNA_G

Daily Analysis Runlog For Sequence/QCBatch ID # BG072823

Review By	yogesh	Review On	7/29/2023 4:50:34 AM		
Supervise By	mohammad	Supervise On	7/29/2023 5:32:36 AM		
SubDirectory	BG072823	HP Acquire Method	BNA_G	HP Processing Method	BG072823

STD. NAME	STD REF.#
Tune/Reschk	SP6125
Initial Calibration Stds	SP6228,SP6229,SP6230,SP6231,SP6232,SP6233,SP6234,SP6235,SP6236
CCC	SP6232
Internal Standard/PEM	S11207 10ul/1000ul sample
ICV/I.BLK	SP6217
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BG058509.D	28 Jul 2023 8:40	MA/JU	Ok
2	SSTDICC2.5	BG058510.D	28 Jul 2023 9:21	MA/JU	Ok
3	SSTDICC005	BG058511.D	28 Jul 2023 10:02	MA/JU	Ok,M
4	SSTDICC010	BG058512.D	28 Jul 2023 10:43	MA/JU	Ok,M
5	SSTDICC020	BG058513.D	28 Jul 2023 11:24	MA/JU	Ok,M
6	SSTDICCC040	BG058514.D	28 Jul 2023 12:05	MA/JU	Ok
7	SSTDICC050	BG058515.D	28 Jul 2023 12:46	MA/JU	Ok
8	SSTDICC060	BG058516.D	28 Jul 2023 13:27	MA/JU	Ok,M
9	SSTDICC080	BG058517.D	28 Jul 2023 14:09	MA/JU	Ok,M
10	SSTDICV040	BG058518.D	28 Jul 2023 14:51	MA/JU	Ok
11	PB154316BL	BG058519.D	28 Jul 2023 15:32	MA/JU	Ok
12	DFTPP	BG058520.D	28 Jul 2023 16:14	MA/JU	Ok
13	SSTDCCC040	BG058521.D	28 Jul 2023 16:55	MA/JU	Ok
14	PB154164BL	BG058522.D	28 Jul 2023 17:37	MA/JU	Ok
15	PB154164BS	BG058523.D	28 Jul 2023 18:18	MA/JU	Ok,M
16	PB154164BSD	BG058524.D	28 Jul 2023 19:00	MA/JU	Ok,M
17	PB154028BS	BG058525.D	28 Jul 2023 19:41	MA/JU	Ok,M
18	O3580-03	BG058526.D	28 Jul 2023 20:23	MA/JU	Ok,M
19	O3719-01	BG058527.D	28 Jul 2023 21:04	MA/JU	Ok
20	O3719-04	BG058528.D	28 Jul 2023 21:45	MA/JU	Ok
21	O3719-02	BG058529.D	28 Jul 2023 22:27	MA/JU	Ok
22	O3632-05	BG058530.D	28 Jul 2023 23:10	MA/JU	Ok
23	O3632-03	BG058531.D	28 Jul 2023 23:51	MA/JU	Ok

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Instrument ID: BNA_G

Daily Analysis Runlog For Sequence/QCBatch ID # BG072823

Review By	yogesh	Review On	7/29/2023 4:50:34 AM		
Supervise By	mohammad	Supervise On	7/29/2023 5:32:36 AM		
SubDirectory	BG072823	HP Acquire Method	BNA_G	HP Processing Method	BG072823

STD. NAME	STD REF.#
Tune/Reschk	SP6125
Initial Calibration Stds	SP6228,SP6229,SP6230,SP6231,SP6232,SP6233,SP6234,SP6235,SP6236
CCC	SP6232
Internal Standard/PEM	S11207 10ul/1000ul sample
ICV/I.BLK	SP6217
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

24	O3632-08	BG058532.D	29 Jul 2023 00:32	MA/JU	Ok
25	O3632-02	BG058533.D	29 Jul 2023 1:14	MA/JU	Ok
26	O3632-09	BG058534.D	29 Jul 2023 1:55	MA/JU	Ok
27	O3642-02	BG058535.D	29 Jul 2023 2:36	MA/JU	Not Ok

M : Manual Integration

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Instrument ID: BNA_G

Daily Analysis Runlog For Sequence/QCBatch ID # BG080223

Review By	yogesh	Review On	8/2/2023 3:13:10 PM		
Supervise By	mohammad	Supervise On	8/3/2023 4:18:59 AM		
SubDirectory	BG080223	HP Acquire Method	BNA_G	HP Processing Method	BG072823

STD. NAME	STD REF.#
Tune/Reschk	SP6125
Initial Calibration Stds	SP6228,SP6229,SP6230,SP6231,SP6232,SP6233,SP6234,SP6235,SP6236
CCC	SP6232
Internal Standard/PEM	S11213 10ul/1000ul sample
ICV/I.BLK	SP6217
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BG058568.D	2 Aug 2023 7:54	MA/JU	Ok
2	SSTDCCC040	BG058569.D	2 Aug 2023 8:34	MA/JU	Ok
3	PB154374BL	BG058570.D	2 Aug 2023 9:14	MA/JU	Ok
4	O3645-07	BG058571.D	2 Aug 2023 9:59	MA/JU	Ok
5	O3645-05	BG058572.D	2 Aug 2023 10:39	MA/JU	Ok
6	O3686-17	BG058573.D	2 Aug 2023 11:20	MA/JU	Ok
7	O3686-07	BG058574.D	2 Aug 2023 12:00	MA/JU	Ok
8	O3686-14	BG058575.D	2 Aug 2023 12:41	MA/JU	Ok
9	O3686-14MS	BG058576.D	2 Aug 2023 13:22	MA/JU	Ok,M
10	O3686-14MSD	BG058577.D	2 Aug 2023 14:03	MA/JU	Ok,M
11	O3686-06	BG058578.D	2 Aug 2023 14:44	MA/JU	Ok
12	O3686-13	BG058579.D	2 Aug 2023 15:25	MA/JU	Ok
13	O3686-10	BG058580.D	2 Aug 2023 16:06	MA/JU	Ok
14	O3686-05	BG058581.D	2 Aug 2023 16:47	MA/JU	Ok
15	O3813-04	BG058582.D	2 Aug 2023 17:28	MA/JU	Ok
16	O3813-07	BG058583.D	2 Aug 2023 18:10	MA/JU	Ok

M : Manual Integration

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Instrument ID: BNA_M

Daily Analysis Runlog For Sequence/QCBatch ID # BM072823

Review By	yogesh	Review On	7/29/2023 4:56:54 AM		
Supervise By	mohammad	Supervise On	7/29/2023 7:58:09 AM		
SubDirectory	BM072823	HP Acquire Method	BNA_M	HP Processing Method	BM072823

STD. NAME	STD REF.#
Tune/Reschk	SP6125
Initial Calibration Stds	SP6228,SP6229,SP6230,SP6231,SP6232,SP6233,SP6234,SP6235,SP6236
CCC	SP6232
Internal Standard/PEM	S11207 10ul/1000ul sample
ICV/I.BLK	SP6217
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BM041157.D	28 Jul 2023 09:37	MA/JU	Ok
2	SSTDICC2.5	BM041158.D	28 Jul 2023 10:14	MA/JU	Ok
3	SSTDICC005	BM041159.D	28 Jul 2023 10:51	MA/JU	Ok,M
4	SSTDICC010	BM041160.D	28 Jul 2023 11:29	MA/JU	Ok,M
5	SSTDICC020	BM041161.D	28 Jul 2023 12:06	MA/JU	Ok,M
6	SSTDICCC040	BM041162.D	28 Jul 2023 12:44	MA/JU	Ok,M
7	SSTDICC050	BM041163.D	28 Jul 2023 13:22	MA/JU	Ok,M
8	SSTDICC060	BM041164.D	28 Jul 2023 14:00	MA/JU	Ok,M
9	SSTDICC080	BM041165.D	28 Jul 2023 14:38	MA/JU	Ok,M
10	SSTDICV040	BM041166.D	28 Jul 2023 15:16	MA/JU	Ok,M
11	PB154028BL	BM041167.D	28 Jul 2023 15:54	MA/JU	Not Ok
12	DFTPP	BM041168.D	28 Jul 2023 16:33	MA/JU	Ok
13	SSTDCCC040	BM041169.D	28 Jul 2023 17:11	MA/JU	Ok,M
14	PB154028BL	BM041170.D	28 Jul 2023 17:49	MA/JU	Not Ok
15	O3632-04	BM041171.D	28 Jul 2023 18:27	MA/JU	Ok
16	O3632-07	BM041172.D	28 Jul 2023 19:06	MA/JU	Ok
17	O3719-03	BM041173.D	28 Jul 2023 19:44	MA/JU	Ok
18	O3645-09MS	BM041174.D	28 Jul 2023 20:22	MA/JU	Ok,M
19	O3645-10MSD	BM041175.D	28 Jul 2023 21:00	MA/JU	Ok,M
20	O3632-01	BM041176.D	28 Jul 2023 21:38	MA/JU	Ok,M
21	PB154118BS	BM041177.D	28 Jul 2023 22:16	MA/JU	Not Ok
22	PB154118BS	BM041178.D	28 Jul 2023 22:55	MA/JU	Not Ok
23	PB154118BS	BM041179.D	28 Jul 2023 23:33	MA/JU	Not Ok

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Instrument ID: BNA_M

Daily Analysis Runlog For Sequence/QCBatch ID # BM072823

Review By	yogesh	Review On	7/29/2023 4:56:54 AM		
Supervise By	mohammad	Supervise On	7/29/2023 7:58:09 AM		
SubDirectory	BM072823	HP Acquire Method	BNA_M	HP Processing Method	BM072823

STD. NAME	STD REF.#
Tune/Reschk	SP6125
Initial Calibration Stds	SP6228,SP6229,SP6230,SP6231,SP6232,SP6233,SP6234,SP6235,SP6236
CCC	SP6232
Internal Standard/PEM	S11207 10ul/1000ul sample
ICV/I.BLK	SP6217
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

M : Manual Integration

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Instrument ID: BNA_P

Daily Analysis Runlog For Sequence/QCBatch ID # BP072723

Review By	yogesh	Review On	7/28/2023 7:21:50 AM		
Supervise By	mohammad	Supervise On	7/28/2023 7:21:55 AM		
SubDirectory	BP072723	HP Acquire Method	BNA_P	HP Processing Method	BP072723

STD. NAME	STD REF.#
Tune/Reschk	SP6125
Initial Calibration Stds	SP6228,SP6229,SP6230,SP6231,SP6232,SP6233,SP6234,SP6235,SP6236
CCC	SP6232
Internal Standard/PEM	S11207 10ul/1000ul sample
ICV/I.BLK	SP6217
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BP016392.D	27 Jul 2023 09:55	MA/JU	Ok
2	SSTDICC2.5	BP016393.D	27 Jul 2023 11:03	MA/JU	Ok
3	SSTDICC005	BP016394.D	27 Jul 2023 11:37	MA/JU	Ok,M
4	SSTDICC010	BP016395.D	27 Jul 2023 12:12	MA/JU	Ok
5	SSTDICC020	BP016396.D	27 Jul 2023 12:46	MA/JU	Ok
6	SSTDICCC040	BP016397.D	27 Jul 2023 13:20	MA/JU	Ok
7	SSTDICC050	BP016398.D	27 Jul 2023 13:55	MA/JU	Ok
8	SSTDICC060	BP016399.D	27 Jul 2023 14:29	MA/JU	Ok,M
9	SSTDICC080	BP016400.D	27 Jul 2023 15:03	MA/JU	Ok,M
10	SSTDICV040	BP016401.D	27 Jul 2023 15:38	MA/JU	Ok
11	PB154028BL	BP016402.D	27 Jul 2023 16:12	MA/JU	Ok
12	PB154028BS	BP016403.D	27 Jul 2023 16:47	MA/JU	Not Ok
13	O3706-08	BP016404.D	27 Jul 2023 17:21	MA/JU	Ok
14	O3706-04	BP016405.D	27 Jul 2023 17:56	MA/JU	Ok
15	O3706-10	BP016406.D	27 Jul 2023 18:30	MA/JU	Ok
16	O3738-05	BP016407.D	27 Jul 2023 19:05	MA/JU	Ok
17	O3719-06	BP016408.D	27 Jul 2023 19:39	MA/JU	Ok
18	O3632-06	BP016409.D	27 Jul 2023 20:14	MA/JU	Ok

M : Manual Integration

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Instrument ID: BNA_P

Daily Analysis Runlog For Sequence/QCBatch ID # BP072823

Review By	yogesh	Review On	7/29/2023 5:48:05 AM		
Supervise By	mohammad	Supervise On	7/29/2023 5:48:25 AM		
SubDirectory	BP072823	HP Acquire Method	BNA_P	HP Processing Method	BP072723

STD. NAME	STD REF.#
Tune/Reschk	SP6125
Initial Calibration Stds	SP6228,SP6229,SP6230,SP6231,SP6232,SP6233,SP6234,SP6235,SP6236
CCC	SP6232
Internal Standard/PEM	S11207 10ul/1000ul sample
ICV/I.BLK	SP6217
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BP016410.D	28 Jul 2023 07:30	MA/JU	Ok
2	SSTDCCC040	BP016411.D	28 Jul 2023 08:03	MA/JU	Ok,M
3	PB154218BL	BP016412.D	28 Jul 2023 08:37	MA/JU	Ok
4	PB154218BS	BP016413.D	28 Jul 2023 09:12	MA/JU	Ok,M
5	PB154218BSD	BP016414.D	28 Jul 2023 09:48	MA/JU	Ok,M
6	PB154198BS	BP016415.D	28 Jul 2023 10:22	MA/JU	Ok,M
7	PB154316BS	BP016416.D	28 Jul 2023 10:57	MA/JU	Ok,M
8	PB154180BL	BP016417.D	28 Jul 2023 11:38	MA/JU	Ok
9	PB154192BS	BP016418.D	28 Jul 2023 12:12	MA/JU	Ok,M
10	O3580-01MS	BP016419.D	28 Jul 2023 12:47	MA/JU	Ok,M
11	O3580-01MSD	BP016420.D	28 Jul 2023 13:21	MA/JU	Ok,M
12	PB154165TB	BP016421.D	28 Jul 2023 13:56	MA/JU	Ok
13	O3630-03	BP016422.D	28 Jul 2023 14:30	MA/JU	Ok
14	SSTDCCC040	BP016423.D	28 Jul 2023 15:05	MA/JU	Ok
15	DFTPP	BP016424.D	28 Jul 2023 15:39	MA/JU	Ok
16	SSTDCCC040	BP016425.D	28 Jul 2023 16:14	MA/JU	Ok
17	PB154028BL	BP016426.D	28 Jul 2023 16:48	MA/JU	Ok
18	PB154510BL	BP016427.D	28 Jul 2023 17:23	MA/JU	Ok
19	PB154510BS	BP016428.D	28 Jul 2023 17:58	MA/JU	Ok,M
20	PB154442TB	BP016429.D	28 Jul 2023 18:32	MA/JU	Ok
21	PB154489TB	BP016430.D	28 Jul 2023 19:07	MA/JU	Ok
22	O3768-02	BP016431.D	28 Jul 2023 19:41	MA/JU	Ok
23	O3770-02	BP016432.D	28 Jul 2023 20:16	MA/JU	Ok

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Instrument ID: BNA_P

Daily Analysis Runlog For Sequence/QCBatch ID # BP072823

Review By	yogesh	Review On	7/29/2023 5:48:05 AM		
Supervise By	mohammad	Supervise On	7/29/2023 5:48:25 AM		
SubDirectory	BP072823	HP Acquire Method	BNA_P	HP Processing Method	BP072723

STD. NAME	STD REF.#
Tune/Reschk	SP6125
Initial Calibration Stds	SP6228,SP6229,SP6230,SP6231,SP6232,SP6233,SP6234,SP6235,SP6236
CCC	SP6232
Internal Standard/PEM	S11207 10ul/1000ul sample
ICV/I.BLK	SP6217
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

24	O3770-02MS	BP016433.D	28 Jul 2023 20:50	MA/JU	Ok
25	O3770-02MSD	BP016434.D	28 Jul 2023 21:24	MA/JU	Ok
26	O3813-02	BP016435.D	28 Jul 2023 21:58	MA/JU	Ok
27	O3797-05	BP016436.D	28 Jul 2023 22:33	MA/JU	Ok
28	O3797-02	BP016437.D	28 Jul 2023 23:07	MA/JU	Ok
29	O3813-08	BP016438.D	28 Jul 2023 23:42	MA/JU	Ok
30	O3813-05	BP016439.D	29 Jul 2023 00:16	MA/JU	Ok
31	O3770-11	BP016440.D	29 Jul 2023 00:50	MA/JU	Ok,M
32	O3770-08	BP016441.D	29 Jul 2023 01:25	MA/JU	Ok
33	O3770-05	BP016442.D	29 Jul 2023 01:59	MA/JU	Ok

M : Manual Integration

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF062623

Review By	yogesh	Review On	6/27/2023 11:54:05 AM		
Supervise By	mohammad	Supervise On	6/29/2023 4:10:25 PM		
SubDirectory	BF062623	HP Acquire Method	BNA_F	HP Processing Method	BF062623

STD. NAME	STD REF.#
Tune/Reschk	SP6125
Initial Calibration Stds	SP6228,SP6229,SP6230,SP6231,SP6232,SP6233,SP6234,SP6235,SP6236
CCC	SP6232
Internal Standard/PEM	S11202 10ul/1000ul sample
ICV/I.BLK	SP6217
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF133952.D	26 Jun 2023 14:41		CG\JU	Ok
2	SSTDICC2.5	SSTDICC2.5	BF133953.D	26 Jun 2023 15:19		CG\JU	Ok
3	SSTDICC005	SSTDICC005	BF133954.D	26 Jun 2023 15:53	Compound #41,54,77 removed from 5ppm	CG\JU	Ok,M
4	SSTDICC010	SSTDICC010	BF133955.D	26 Jun 2023 16:27		CG\JU	Ok,M
5	SSTDICC020	SSTDICC020	BF133956.D	26 Jun 2023 17:02	Compound #54 Kept on LR and Compound #9 Kept on QR	CG\JU	Ok,M
6	SSTDICCC040	SSTDICCC040	BF133957.D	26 Jun 2023 17:37	Method is Good For DOD and Good for 625.1 Method	CG\JU	Ok,M
7	SSTDICC050	SSTDICC050	BF133958.D	26 Jun 2023 18:12		CG\JU	Ok,M
8	SSTDICC060	SSTDICC060	BF133959.D	26 Jun 2023 18:47		CG\JU	Ok,M
9	SSTDICC080	SSTDICC080	BF133960.D	26 Jun 2023 19:21	Compound #9 removed from 80ppm	CG\JU	Ok,M
10	SSTDICV040	ICVBF062623	BF133961.D	26 Jun 2023 19:56		CG\JU	Ok,M
11	PB153526BL	PB153526BL	BF133962.D	26 Jun 2023 20:29		CG\JU	Ok
12	O3369-01	ORA-1650	BF133963.D	26 Jun 2023 21:03	Need 5X	CG\JU	Dilution
13	O3367-01	EO-3-062123	BF133964.D	26 Jun 2023 21:36		CG\JU	Ok,M
14	O3365-13	TP4	BF133965.D	26 Jun 2023 22:09		CG\JU	Ok
15	O3365-24	TP1	BF133966.D	26 Jun 2023 22:42		CG\JU	Ok
16	O3365-33	TP3	BF133967.D	26 Jun 2023 23:16		CG\JU	Ok
17	DFTPP	DFTPP	BF133968.D	27 Jun 2023 00:54	Breakdown of tune Fail (84%)	CG\JU	Ok
18	SSTDCCC040	SSTDCCC040	BF133969.D	27 Jun 2023 01:59		CG\JU	Ok,M

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF062623

Review By	yogesh	Review On	6/27/2023 11:54:05 AM		
Supervise By	mohammad	Supervise On	6/29/2023 4:10:25 PM		
SubDirectory	BF062623	HP Acquire Method	BNA_F	HP Processing Method	BF062623

STD. NAME	STD REF.#
Tune/Reschk	SP6125
Initial Calibration Stds	SP6228,SP6229,SP6230,SP6231,SP6232,SP6233,SP6234,SP6235,SP6236
CCC	SP6232
Internal Standard/PEM	S11202 10ul/1000ul sample
ICV/I.BLK	SP6217
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	PB153762BL	PB153762BL	BF133970.D	27 Jun 2023 03:07	cc failng low	CG\JU	Not Ok
20	O3365-01	CONC-1	BF133971.D	27 Jun 2023 03:40	Internal Standard Fail,CCC Fail low for Com#92	CG\JU	ReRun
21	O3365-02	CONC-2	BF133972.D	27 Jun 2023 04:12	CCC fail Low for Comp #92	CG\JU	ReRun
22	O3365-03	TP2	BF133973.D	27 Jun 2023 04:44	CCC fail Low for Comp #26,41,54,65,92	CG\JU	ReRun
23	O3337-02	WC-18	BF133974.D	27 Jun 2023 05:16		CG\JU	Ok
24	O3336-17	WC-1	BF133975.D	27 Jun 2023 05:49		CG\JU	Ok
25	O3337-05	WC-17	BF133976.D	27 Jun 2023 06:21		CG\JU	Ok
26	O3336-14	WC-2	BF133977.D	27 Jun 2023 06:53		CG\JU	Ok
27	O3336-11	WC-3	BF133978.D	27 Jun 2023 07:25		CG\JU	Ok
28	O3336-08	WC-4	BF133979.D	27 Jun 2023 07:58		CG\JU	Ok
29	O3336-05	WC-5	BF133980.D	27 Jun 2023 08:30		CG\JU	Ok
30	O3336-02	WC-6	BF133981.D	27 Jun 2023 09:03		CG\JU	Ok

M : Manual Integration

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF071923

Review By	yogesh	Review On	7/19/2023 3:26:32 PM		
Supervise By	mohammad	Supervise On	7/20/2023 5:01:30 PM		
SubDirectory	BF071923	HP Acquire Method	BNA_F	HP Processing Method	BF062623

STD. NAME	STD REF.#
Tune/Reschk	SP6125
Initial Calibration Stds	SP6228,SP6229,SP6230,SP6231,SP6232,SP6233,SP6234,SP6235,SP6236
CCC	SP6232
Internal Standard/PEM	S11207 10ul/1000ul sample
ICV/I.BLK	SP6217
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF134354.D	19 Jul 2023 12:29		CG\JU	Ok
2	SSTDCCC040	SSTDCCC040	BF134355.D	19 Jul 2023 13:01		CG\JU	Ok,M
3	PB154258BL	PB154258BL	BF134356.D	19 Jul 2023 13:34		CG\JU	Ok
4	PB154258BS	PB154258BS	BF134357.D	19 Jul 2023 14:07		CG\JU	Ok,M
5	O3597-18	RB-50-(2-5)	BF134358.D	19 Jul 2023 14:45		CG\JU	Ok
6	O3597-10	RB-46-(2-5)	BF134359.D	19 Jul 2023 15:17		CG\JU	Ok,M
7	O3597-20	RB-51-(2-5)	BF134360.D	19 Jul 2023 15:50		CG\JU	Ok,M
8	O3599-01	IDW-7-11-23	BF134361.D	19 Jul 2023 16:23		CG\JU	Ok
9	O3597-13	RB-48-(0-2)	BF134362.D	19 Jul 2023 16:56		CG\JU	Ok,M
10	O3597-14	RB-48-(2-5)	BF134363.D	19 Jul 2023 17:30		CG\JU	Ok,M
11	O3597-15	RB-49-(0-2)	BF134364.D	19 Jul 2023 18:05		CG\JU	Ok
12	O3599-02	FIELD-BLANK	BF134365.D	19 Jul 2023 18:38		CG\JU	Ok
13	O3637-01	A508	BF134366.D	19 Jul 2023 19:12		CG\JU	Ok
14	O3641-31	TP15	BF134367.D	19 Jul 2023 19:45		CG\JU	Ok,M
15	O3641-01	TP13	BF134368.D	19 Jul 2023 20:18		CG\JU	Ok,M
16	O3641-11	TP14	BF134369.D	19 Jul 2023 20:52		CG\JU	Ok
17	O3687-01	CO-38882	BF134370.D	19 Jul 2023 21:24		CG\JU	Ok
18	O3639-21	TP5	BF134371.D	19 Jul 2023 21:57		CG\JU	Ok
19	O3639-21MS	TP5MS	BF134372.D	19 Jul 2023 22:31		CG\JU	Ok,M

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF071923

Review By	yogesh	Review On	7/19/2023 3:26:32 PM		
Supervise By	mohammad	Supervise On	7/20/2023 5:01:30 PM		
SubDirectory	BF071923	HP Acquire Method	BNA_F	HP Processing Method	BF062623

STD. NAME	STD REF.#
Tune/Reschk	SP6125
Initial Calibration Stds	SP6228,SP6229,SP6230,SP6231,SP6232,SP6233,SP6234,SP6235,SP6236
CCC	SP6232
Internal Standard/PEM	S11207 10ul/1000ul sample
ICV/I.BLK	SP6217
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

20	O3639-21MSD	TP5MSD	BF134373.D	19 Jul 2023 23:04		CG\JU	Ok,M

M : Manual Integration

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF072423

Review By	yogesh	Review On	7/24/2023 3:55:42 PM		
Supervise By	mohammad	Supervise On	7/25/2023 7:43:42 AM		
SubDirectory	BF072423	HP Acquire Method	BNA_F	HP Processing Method	BF072423

STD. NAME	STD REF.#
Tune/Reschk	SP6125
Initial Calibration Stds	SP6228,SP6229,SP6230,SP6231,SP6232,SP6233,SP6234,SP6235,SP6236
CCC	
Internal Standard/PEM	S11207 10ul/1000ul sample
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF134425.D	24 Jul 2023 12:41		CG\JU	Ok
2	SSTDCCC040	SSTDCCC040	BF134426.D	24 Jul 2023 13:13	Need ICAL	CG\JU	Not Ok
3	SSTDICC2.5	SSTDICC2.5	BF134427.D	24 Jul 2023 13:46		CG\JU	Ok
4	SSTDICC005	SSTDICC005	BF134428.D	24 Jul 2023 14:19	Compound #9,41,54,56,65,70,77 removed from 5ppm	CG\JU	Ok,M
5	SSTDICC010	SSTDICC010	BF134429.D	24 Jul 2023 14:53		CG\JU	Ok,M
6	SSTDICC020	SSTDICC020	BF134430.D	24 Jul 2023 15:28	Compound #41 Kept on QR and Compound#54 Kept on LR	CG\JU	Ok,M
7	SSTDICCC040	SSTDICCC040	BF134431.D	24 Jul 2023 16:02	Method is Good For DOD and Not good for 625.1 Method	CG\JU	Ok,M
8	SSTDICC050	SSTDICC050	BF134432.D	24 Jul 2023 16:36		CG\JU	Ok,M
9	SSTDICC060	SSTDICC060	BF134433.D	24 Jul 2023 17:10		CG\JU	Ok,M
10	SSTDICC080	SSTDICC080	BF134434.D	24 Jul 2023 17:44	Compound #9 removed from 80ppm	CG\JU	Ok,M
11	SSTDICV040	ICVBF072423	BF134435.D	24 Jul 2023 18:16		CG\JU	Ok,M
12	PB154085BL	PB154085BL	BF134436.D	24 Jul 2023 18:49	Surrogate Fail	CG\JU	Not Ok
13	DFTPP	DFTPP	BF134437.D	24 Jul 2023 19:22	Tune Failed	CG\JU	Not Ok
14	SSTDCCC040	SSTDCCC040	BF134438.D	24 Jul 2023 20:03		CG\JU	Ok,M
15	PB154372BL	PB154372BL	BF134439.D	24 Jul 2023 20:38		CG\JU	Ok
16	O3683-01	NORTH-TURNPIKE	BF134440.D	24 Jul 2023 21:11		CG\JU	Ok
17	O3653-11	TP21	BF134441.D	24 Jul 2023 21:43		CG\JU	Ok

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF072423

Review By	yogesh	Review On	7/24/2023 3:55:42 PM		
Supervise By	mohammad	Supervise On	7/25/2023 7:43:42 AM		
SubDirectory	BF072423	HP Acquire Method	BNA_F	HP Processing Method	BF072423

STD. NAME	STD REF.#
Tune/Reschk	SP6125
Initial Calibration Stds	SP6228,SP6229,SP6230,SP6231,SP6232,SP6233,SP6234,SP6235,SP6236
CCC	
Internal Standard/PEM	S11207 10ul/1000ul sample
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	O3670-01	N48909	BF134442.D	24 Jul 2023 22:17		CG\JU	Ok
19	O3652-01	TP19	BF134443.D	24 Jul 2023 22:50		CG\JU	Ok
20	O3652-21	TP17	BF134444.D	24 Jul 2023 23:22		CG\JU	Ok
21	O3668-05	N48719	BF134445.D	24 Jul 2023 23:55		CG\JU	Ok,M
22	O3680-01	TP-3	BF134446.D	25 Jul 2023 00:27		CG\JU	Ok
23	O3680-01MS	TP-3MS	BF134447.D	25 Jul 2023 01:00		CG\JU	Ok,M
24	O3680-01MSD	TP-3MSD	BF134448.D	25 Jul 2023 01:31		CG\JU	Ok,M
25	O3646-01	GATE-1	BF134449.D	25 Jul 2023 02:04		CG\JU	Ok
26	O3646-04	YARD-1	BF134450.D	25 Jul 2023 02:36		CG\JU	Ok
27	O3652-11	TP18	BF134451.D	25 Jul 2023 03:08		CG\JU	Ok,M
28	O3653-01	TP20	BF134452.D	25 Jul 2023 03:40		CG\JU	Ok
29	O3685-01	CHRT-24152	BF134453.D	25 Jul 2023 04:12		CG\JU	Ok,M
30	O3653-21	TP22	BF134454.D	25 Jul 2023 04:44		CG\JU	Ok
31	O3640-31	TP11	BF134455.D	25 Jul 2023 05:15	Already analyzed with ok status (please Confirm Sample id)	CG\JU	Not Ok
32	O3659-01	HR-2-071823	BF134456.D	25 Jul 2023 05:47		CG\JU	Ok,M
33	O3659-03	HR-3-071823	BF134457.D	25 Jul 2023 06:19		CG\JU	Ok,M

M : Manual Integration

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF072823

Review By	yogesh	Review On	7/29/2023 4:51:15 AM		
Supervise By	mohammad	Supervise On	7/31/2023 2:25:12 AM		
SubDirectory	BF072823	HP Acquire Method	BNA_F	HP Processing Method	BF072423

STD. NAME	STD REF.#
Tune/Reschk	SP6125
Initial Calibration Stds	SP6228,SP6229,SP6230,SP6231,SP6232,SP6233,SP6234,SP6235,SP6236
CCC	SP6232
Internal Standard/PEM	S11207 10ul/1000ul sample
ICV/I.BLK	SP6217
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF134517.D	28 Jul 2023 15:21		CG\JU	Ok
2	SSTDCCC040	SSTDCCC040	BF134518.D	28 Jul 2023 16:29		CG\JU	Ok,M
3	PB154028BL	PB154028BL	BF134519.D	28 Jul 2023 17:05		CG\JU	Ok
4	O3719-05	B-P23A	BF134520.D	28 Jul 2023 17:41		CG\JU	Ok
5	O3777-01	WC-1	BF134521.D	28 Jul 2023 18:16		CG\JU	Ok,M
6	O3773-01	OR-02-072523	BF134522.D	28 Jul 2023 18:50		CG\JU	Ok,M
7	O3791-01	EO-03-072623	BF134523.D	28 Jul 2023 19:23		CG\JU	Ok,M
8	O3753-01	OK-2-072523	BF134524.D	28 Jul 2023 19:59		CG\JU	Ok,M
9	O3645-05	SB-09-(2.0-4.0)	BF134525.D	28 Jul 2023 20:32	Internal Standard Fail	CG\JU	ReRun
10	O3742-08	DUP-04	BF134526.D	28 Jul 2023 21:06	Internal Standard Fail	CG\JU	ReRun
11	O3645-01	SB-02-(3-5)	BF134527.D	28 Jul 2023 21:40		CG\JU	Ok
12	O3645-08	RINSATE-BLANK	BF134528.D	28 Jul 2023 22:17		CG\JU	Ok
13	O3645-07	DUP	BF134529.D	28 Jul 2023 22:55	Internal Standard Fail	CG\JU	ReRun
14	O3742-03	B-P32B	BF134530.D	28 Jul 2023 23:36	Internal Standard Fail	CG\JU	ReRun
15	O3645-03	SB-07-(1-3)	BF134531.D	29 Jul 2023 00:10		CG\JU	Ok
16	O3733-01	AU-6-072423	BF134532.D	29 Jul 2023 00:42		CG\JU	Ok
17	O3770-10	HOWE-2-LP	BF134533.D	29 Jul 2023 01:15	Internal Standard Fail	CG\JU	ReRun
18	O3770-07	HOWE-1-LP	BF134534.D	29 Jul 2023 01:48	Internal Standard Fail	CG\JU	ReRun

M : Manual Integration

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF080123

Review By	yogesh	Review On	8/1/2023 1:13:33 PM		
Supervise By	mohammad	Supervise On	8/2/2023 4:07:56 PM		
SubDirectory	BF080123	HP Acquire Method	BNA_F	HP Processing Method	BF080123

STD. NAME	STD REF.#
Tune/Reschk	SP6125
Initial Calibration Stds	SP6228,SP6229,SP6230,SP6231,SP6232,SP6233,SP6234,SP6235,SP6236
CCC	SP6232
Internal Standard/PEM	S11212 10ul/1000ul sample
ICV/I.BLK	SP6217
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF134535.D	01 Aug 2023 07:20		CG\JU	Ok
2	SSTDICC2.5	SSTDICC2.5	BF134536.D	01 Aug 2023 07:51		CG\JU	Ok
3	SSTDICC005	SSTDICC005	BF134537.D	01 Aug 2023 08:22	Compound #32,45,54,56,65 removed from 5ppm	CG\JU	Ok,M
4	SSTDICC010	SSTDICC010	BF134538.D	01 Aug 2023 08:54		CG\JU	Ok,M
5	SSTDICC020	SSTDICC020	BF134539.D	01 Aug 2023 09:24	Compound #26,32,48,51,57,65 Kept on LR and Compound #9,54 Kept on QR	CG\JU	Ok,M
6	SSTDICCC040	SSTDICCC040	BF134540.D	01 Aug 2023 10:12	Method is Good For NON-DOD and not good for 625.1 method	CG\JU	Ok
7	SSTDICC050	SSTDICC050	BF134541.D	01 Aug 2023 10:44		CG\JU	Ok,M
8	SSTDICC060	SSTDICC060	BF134542.D	01 Aug 2023 11:15		CG\JU	Ok,M
9	SSTDICC080	SSTDICC080	BF134543.D	01 Aug 2023 11:47	Compound #9 removed from 80ppm	CG\JU	Ok,M
10	SSTDICV040	ICVBF080123	BF134544.D	01 Aug 2023 12:50		CG\JU	Ok,M
11	PB154403BL	PB154403BL	BF134545.D	01 Aug 2023 13:23		CG\JU	Ok
12	DFTPP	DFTPP	BF134546.D	01 Aug 2023 13:54		CG\JU	Ok
13	SSTDCCC040	SSTDCCC040	BF134547.D	01 Aug 2023 14:27		CG\JU	Ok,M
14	PB154429BL	PB154429BL	BF134548.D	01 Aug 2023 15:00		CG\JU	Ok
15	O3810-06	B-P7B	BF134549.D	01 Aug 2023 15:37		CG\JU	Ok
16	O3741-02RE	B-P12ARE	BF134550.D	01 Aug 2023 16:09	Fax is already Given	CG\JU	Confirms
17	O3742-08RE	DUP-04RE	BF134551.D	01 Aug 2023 16:43	Fax is already Given	CG\JU	Confirms

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF080123

Review By	yogesh	Review On	8/1/2023 1:13:33 PM		
Supervise By	mohammad	Supervise On	8/2/2023 4:07:56 PM		
SubDirectory	BF080123	HP Acquire Method	BNA_F	HP Processing Method	BF080123

STD. NAME	STD REF.#
Tune/Reschk	SP6125
Initial Calibration Stds	SP6228,SP6229,SP6230,SP6231,SP6232,SP6233,SP6234,SP6235,SP6236
CCC	SP6232
Internal Standard/PEM	S11212 10ul/1000ul sample
ICV/I.BLK	SP6217
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	O3784-01	OS-2	BF134552.D	01 Aug 2023 17:15		CG\JU	Ok
19	O3781-01	OS-1	BF134553.D	01 Aug 2023 17:47		CG\JU	Ok
20	O3741-12RE	B-P6ARE	BF134554.D	01 Aug 2023 18:20	Fax is already Given	CG\JU	Confirms
21	O3741-06RE	B-P25ARE	BF134555.D	01 Aug 2023 18:52	Fax is already Given	CG\JU	Confirms
22	O3645-04	SB-08-(0.5-2.0)	BF134556.D	01 Aug 2023 19:24		CG\JU	Ok,M
23	O3645-02	SB-04-(1-5)	BF134557.D	01 Aug 2023 19:56		CG\JU	Ok,M
24	O3741-10RE	B-P27ARE	BF134558.D	01 Aug 2023 20:28	Fax is already Given	CG\JU	Confirms
25	O3741-13RE	B-P6BRE	BF134559.D	01 Aug 2023 20:59	Fax is already Given	CG\JU	Confirms
26	O3741-01RE	B-P5ARE	BF134560.D	01 Aug 2023 21:31	Fax is already Given	CG\JU	Confirms
27	O3741-04RE	B-P24ARE	BF134561.D	01 Aug 2023 22:03	Fax is already Given	CG\JU	Confirms
28	O3741-14RE	B-P13ARE	BF134562.D	01 Aug 2023 22:34	Fax is already Given	CG\JU	Confirms
29	O3770-07	HOWE-1-LP	BF134563.D	01 Aug 2023 23:06		CG\JU	Ok
30	O3770-10	HOWE-2-LP	BF134564.D	01 Aug 2023 23:37		CG\JU	Ok
31	O3645-06DL	SB-10-(0.5-2.0)DL	BF134565.D	02 Aug 2023 00:09		CG\JU	Ok,M
32	O3645-06	SB-10-(0.5-2.0)	BF134566.D	02 Aug 2023 00:41	Need 5X	CG\JU	Dilution

M : Manual Integration

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Instrument ID: BNA_G

Daily Analysis Runlog For Sequence/QCBatch ID # BG072823

Review By	yogesh	Review On	7/29/2023 4:50:34 AM		
Supervise By	mohammad	Supervise On	7/29/2023 5:32:36 AM		
SubDirectory	BG072823	HP Acquire Method	BNA_G	HP Processing Method	BG072823

STD. NAME	STD REF.#
Tune/Reschk	SP6125
Initial Calibration Stds	SP6228,SP6229,SP6230,SP6231,SP6232,SP6233,SP6234,SP6235,SP6236
CCC	SP6232
Internal Standard/PEM	S11207 10ul/1000ul sample
ICV/I.BLK	SP6217
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BG058509.D	28 Jul 2023 8:40		MA/JU	Ok
2	SSTDICC2.5	SSTDICC2.5	BG058510.D	28 Jul 2023 9:21		MA/JU	Ok
3	SSTDICC005	SSTDICC005	BG058511.D	28 Jul 2023 10:02	Compound #9,32,41,54,56,65,77 removed from 5ppm	MA/JU	Ok,M
4	SSTDICC010	SSTDICC010	BG058512.D	28 Jul 2023 10:43	Method is Fail for Com#77 for DOD	MA/JU	Ok,M
5	SSTDICC020	SSTDICC020	BG058513.D	28 Jul 2023 11:24	Compound #32,41,54,56 Kept on LR	MA/JU	Ok,M
6	SSTDICCC040	SSTDICCC040	BG058514.D	28 Jul 2023 12:05	Method is Good For DOD Except Com#77 and fail for 625.1 Method	MA/JU	Ok
7	SSTDICC050	SSTDICC050	BG058515.D	28 Jul 2023 12:46		MA/JU	Ok
8	SSTDICC060	SSTDICC060	BG058516.D	28 Jul 2023 13:27		MA/JU	Ok,M
9	SSTDICC080	SSTDICC080	BG058517.D	28 Jul 2023 14:09	Compound #9 removed from 80ppm	MA/JU	Ok,M
10	SSTDICV040	ICVBG072823	BG058518.D	28 Jul 2023 14:51	ICV is Fail For Com#77 for DOD	MA/JU	Ok
11	PB154316BL	PB154316BL	BG058519.D	28 Jul 2023 15:32		MA/JU	Ok
12	DFTPP	DFTPP	BG058520.D	28 Jul 2023 16:14	Tailing for Pentachlorophenol is 2.03	MA/JU	Ok
13	SSTDCCC040	SSTDCCC040	BG058521.D	28 Jul 2023 16:55		MA/JU	Ok
14	PB154164BL	PB154164BL	BG058522.D	28 Jul 2023 17:37		MA/JU	Ok
15	PB154164BS	PB154164BS	BG058523.D	28 Jul 2023 18:18		MA/JU	Ok,M
16	PB154164BSD	PB154164BSD	BG058524.D	28 Jul 2023 19:00		MA/JU	Ok,M
17	PB154028BS	PB154028BS	BG058525.D	28 Jul 2023 19:41		MA/JU	Ok,M

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Instrument ID: BNA_G

Daily Analysis Runlog For Sequence/QCBatch ID # BG072823

Review By	yogesh	Review On	7/29/2023 4:50:34 AM		
Supervise By	mohammad	Supervise On	7/29/2023 5:32:36 AM		
SubDirectory	BG072823	HP Acquire Method	BNA_G	HP Processing Method	BG072823

STD. NAME	STD REF.#
Tune/Reschk	SP6125
Initial Calibration Stds	SP6228,SP6229,SP6230,SP6231,SP6232,SP6233,SP6234,SP6235,SP6236
CCC	SP6232
Internal Standard/PEM	S11207 10ul/1000ul sample
ICV/I.BLK	SP6217
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	O3580-03	SAMPLE-2	BG058526.D	28 Jul 2023 20:23		MA/JU	Ok,M
19	O3719-01	B-P11A	BG058527.D	28 Jul 2023 21:04		MA/JU	Ok
20	O3719-04	B-P22B	BG058528.D	28 Jul 2023 21:45		MA/JU	Ok
21	O3719-02	B-P11B	BG058529.D	28 Jul 2023 22:27		MA/JU	Ok
22	O3632-05	SB-05-(6-8)	BG058530.D	28 Jul 2023 23:10		MA/JU	Ok
23	O3632-03	SB-03-(7-9)	BG058531.D	28 Jul 2023 23:51		MA/JU	Ok
24	O3632-08	SB-12-(4-6)	BG058532.D	29 Jul 2023 00:32		MA/JU	Ok
25	O3632-02	SB-02-(5-7)	BG058533.D	29 Jul 2023 1:14		MA/JU	Ok
26	O3632-09	RINSATE-BLANK	BG058534.D	29 Jul 2023 1:55		MA/JU	Ok
27	O3642-02	EFF-WW	BG058535.D	29 Jul 2023 2:36	Method is Fail for 625.1, Surrogate Fail	MA/JU	Not Ok

M : Manual Integration

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Instrument ID: BNA_G

Daily Analysis Runlog For Sequence/QCBatch ID # BG080223

Review By	yogesh	Review On	8/2/2023 3:13:10 PM		
Supervise By	mohammad	Supervise On	8/3/2023 4:18:59 AM		
SubDirectory	BG080223	HP Acquire Method	BNA_G	HP Processing Method	BG072823

STD. NAME	STD REF.#
Tune/Reschk	SP6125
Initial Calibration Stds	SP6228,SP6229,SP6230,SP6231,SP6232,SP6233,SP6234,SP6235,SP6236
CCC	SP6232
Internal Standard/PEM	S11213 10ul/1000ul sample
ICV/I.BLK	SP6217
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BG058568.D	2 Aug 2023 7:54		MA/JU	Ok
2	SSTDCCC040	SSTDCCC040	BG058569.D	2 Aug 2023 8:34		MA/JU	Ok
3	PB154374BL	PB154374BL	BG058570.D	2 Aug 2023 9:14		MA/JU	Ok
4	O3645-07	DUP	BG058571.D	2 Aug 2023 9:59		MA/JU	Ok
5	O3645-05	SB-09-(2.0-4.0)	BG058572.D	2 Aug 2023 10:39		MA/JU	Ok
6	O3686-17	SB-28-2-4-20230721	BG058573.D	2 Aug 2023 11:20		MA/JU	Ok
7	O3686-07	SB-18-0-2-20230720	BG058574.D	2 Aug 2023 12:00		MA/JU	Ok
8	O3686-14	SB-22-4-6-20230721	BG058575.D	2 Aug 2023 12:41		MA/JU	Ok
9	O3686-14MS	SB-22-4-6-20230721MS	BG058576.D	2 Aug 2023 13:22		MA/JU	Ok,M
10	O3686-14MSD	SB-22-4-6-20230721MS	BG058577.D	2 Aug 2023 14:03		MA/JU	Ok,M
11	O3686-06	SB-20-2-4-20230720	BG058578.D	2 Aug 2023 14:44		MA/JU	Ok
12	O3686-13	SB-22-0-2-20230721	BG058579.D	2 Aug 2023 15:25		MA/JU	Ok
13	O3686-10	SB-29-2-3-20230721	BG058580.D	2 Aug 2023 16:06		MA/JU	Ok
14	O3686-05	SB-20-0-2-20230720	BG058581.D	2 Aug 2023 16:47		MA/JU	Ok
15	O3813-04	PLAUDERVILLE-2	BG058582.D	2 Aug 2023 17:28		MA/JU	Ok
16	O3813-07	PLAUDERVILLE-3	BG058583.D	2 Aug 2023 18:10		MA/JU	Ok

M : Manual Integration

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Instrument ID: BNA_M

Daily Analysis Runlog For Sequence/QCBatch ID # BM072823

Review By	yogesh	Review On	7/29/2023 4:56:54 AM		
Supervise By	mohammad	Supervise On	7/29/2023 7:58:09 AM		
SubDirectory	BM072823	HP Acquire Method	BNA_M	HP Processing Method	BM072823

STD. NAME	STD REF.#
Tune/Reschk	SP6125
Initial Calibration Stds	SP6228,SP6229,SP6230,SP6231,SP6232,SP6233,SP6234,SP6235,SP6236
CCC	SP6232
Internal Standard/PEM	S11207 10ul/1000ul sample
ICV/I.BLK	SP6217
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BM041157.D	28 Jul 2023 09:37		MA/JU	Ok
2	SSTDICC2.5	SSTDICC2.5	BM041158.D	28 Jul 2023 10:14		MA/JU	Ok
3	SSTDICC005	SSTDICC005	BM041159.D	28 Jul 2023 10:51	Compound #9,32,35,41,54,56,65,85 removed from 5ppm	MA/JU	Ok,M
4	SSTDICC010	SSTDICC010	BM041160.D	28 Jul 2023 11:29	Method is Fail for Com#77 for DOD	MA/JU	Ok,M
5	SSTDICC020	SSTDICC020	BM041161.D	28 Jul 2023 12:06	Compound #32,53,54,57,62,84 Kept on LR	MA/JU	Ok,M
6	SSTDICCC040	SSTDICCC040	BM041162.D	28 Jul 2023 12:44	Method is Good For DOD Except com#77 and Good for 625.1 Method	MA/JU	Ok,M
7	SSTDICC050	SSTDICC050	BM041163.D	28 Jul 2023 13:22		MA/JU	Ok,M
8	SSTDICC060	SSTDICC060	BM041164.D	28 Jul 2023 14:00		MA/JU	Ok,M
9	SSTDICC080	SSTDICC080	BM041165.D	28 Jul 2023 14:38	Compound #9 removed from 80ppm	MA/JU	Ok,M
10	SSTDICV040	ICVBM072823	BM041166.D	28 Jul 2023 15:16	ICV Fail for Com#77 For DOD	MA/JU	Ok,M
11	PB154028BL	PB154028BL	BM041167.D	28 Jul 2023 15:54	Analyzed for contamination check	MA/JU	Not Ok
12	DFTPP	DFTPP	BM041168.D	28 Jul 2023 16:33		MA/JU	Ok
13	SSTDCCC040	SSTDCCC040	BM041169.D	28 Jul 2023 17:11		MA/JU	Ok,M
14	PB154028BL	PB154028BL	BM041170.D	28 Jul 2023 17:49	Analyzed for contamination check	MA/JU	Not Ok
15	O3632-04	SB-04-(9-11)	BM041171.D	28 Jul 2023 18:27		MA/JU	Ok
16	O3632-07	SB-10-(9-11)	BM041172.D	28 Jul 2023 19:06		MA/JU	Ok

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Instrument ID: BNA_M

Daily Analysis Runlog For Sequence/QCBatch ID # BM072823

Review By	yogesh	Review On	7/29/2023 4:56:54 AM		
Supervise By	mohammad	Supervise On	7/29/2023 7:58:09 AM		
SubDirectory	BM072823	HP Acquire Method	BNA_M	HP Processing Method	BM072823

STD. NAME	STD REF.#
Tune/Reschk	SP6125
Initial Calibration Stds	SP6228,SP6229,SP6230,SP6231,SP6232,SP6233,SP6234,SP6235,SP6236
CCC	SP6232
Internal Standard/PEM	S11207 10ul/1000ul sample
ICV/I.BLK	SP6217
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

17	O3719-03	B-P22A	BM041173.D	28 Jul 2023 19:44		MA/JU	Ok
18	O3645-09MS	SB-04-(1-5)MS	BM041174.D	28 Jul 2023 20:22		MA/JU	Ok,M
19	O3645-10MSD	SB-04-(1-5)MSD	BM041175.D	28 Jul 2023 21:00		MA/JU	Ok,M
20	O3632-01	SB-01-(2-4)	BM041176.D	28 Jul 2023 21:38		MA/JU	Ok,M
21	PB154118BS	PB154118BS	BM041177.D	28 Jul 2023 22:16	Surrogate Fail	MA/JU	Not Ok
22	PB154118BS	PB154118BS	BM041178.D	28 Jul 2023 22:55	Surrogate Fail,Already Analyzed	MA/JU	Not Ok
23	PB154118BS	PB154118BS	BM041179.D	28 Jul 2023 23:33	Surrogate Fail,Already Analyzed	MA/JU	Not Ok

M : Manual Integration

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Instrument ID: BNA_P

Daily Analysis Runlog For Sequence/QCBatch ID # BP072723

Review By	yogesh	Review On	7/28/2023 7:21:50 AM		
Supervise By	mohammad	Supervise On	7/28/2023 7:21:55 AM		
SubDirectory	BP072723	HP Acquire Method	BNA_P	HP Processing Method	BP072723

STD. NAME	STD REF.#
Tune/Reschk	SP6125
Initial Calibration Stds	SP6228,SP6229,SP6230,SP6231,SP6232,SP6233,SP6234,SP6235,SP6236
CCC	SP6232
Internal Standard/PEM	S11207 10ul/1000ul sample
ICV/I.BLK	SP6217
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BP016392.D	27 Jul 2023 09:55		MA/JU	Ok
2	SSTDICC2.5	SSTDICC2.5	BP016393.D	27 Jul 2023 11:03		MA/JU	Ok
3	SSTDICC005	SSTDICC005	BP016394.D	27 Jul 2023 11:37	Compound #32,42,54,65,70 removed from 5ppm	MA/JU	Ok,M
4	SSTDICC010	SSTDICC010	BP016395.D	27 Jul 2023 12:12		MA/JU	Ok
5	SSTDICC020	SSTDICC020	BP016396.D	27 Jul 2023 12:46		MA/JU	Ok
6	SSTDICCC040	SSTDICCC040	BP016397.D	27 Jul 2023 13:20	Method is Good For DOD but fail for 625.1 Method	MA/JU	Ok
7	SSTDICC050	SSTDICC050	BP016398.D	27 Jul 2023 13:55	Compound#26,32,54,65 kept on LR and com#09 kept on QR	MA/JU	Ok
8	SSTDICC060	SSTDICC060	BP016399.D	27 Jul 2023 14:29		MA/JU	Ok,M
9	SSTDICC080	SSTDICC080	BP016400.D	27 Jul 2023 15:03		MA/JU	Ok,M
10	SSTDICV040	ICVBP072723	BP016401.D	27 Jul 2023 15:38		MA/JU	Ok
11	PB154028BL	PB154028BL	BP016402.D	27 Jul 2023 16:12		MA/JU	Ok
12	PB154028BS	PB154028BS	BP016403.D	27 Jul 2023 16:47	Recovery fail Low for many compounds	MA/JU	Not Ok
13	O3706-08	B-P21B	BP016404.D	27 Jul 2023 17:21		MA/JU	Ok
14	O3706-04	B-P10B	BP016405.D	27 Jul 2023 17:56		MA/JU	Ok
15	O3706-10	FB02	BP016406.D	27 Jul 2023 18:30		MA/JU	Ok
16	O3738-05	80002	BP016407.D	27 Jul 2023 19:05		MA/JU	Ok
17	O3719-06	B-P23B	BP016408.D	27 Jul 2023 19:39		MA/JU	Ok
18	O3632-06	SB-09-(3-5)	BP016409.D	27 Jul 2023 20:14		MA/JU	Ok

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Instrument ID: BNA_P

Daily Analysis Runlog For Sequence/QCBatch ID # BP072723

Review By	yogesh	Review On	7/28/2023 7:21:50 AM		
Supervise By	mohammad	Supervise On	7/28/2023 7:21:55 AM		
SubDirectory	BP072723	HP Acquire Method	BNA_P	HP Processing Method	BP072723

STD. NAME	STD REF.#
Tune/Reschk	SP6125
Initial Calibration Stds	SP6228,SP6229,SP6230,SP6231,SP6232,SP6233,SP6234,SP6235,SP6236
CCC	SP6232
Internal Standard/PEM	S11207 10ul/1000ul sample
ICV/I.BLK	SP6217
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

M : Manual Integration

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Instrument ID: BNA_P

Daily Analysis Runlog For Sequence/QCBatch ID # BP072823

Review By	yogesh	Review On	7/29/2023 5:48:05 AM		
Supervise By	mohammad	Supervise On	7/29/2023 5:48:25 AM		
SubDirectory	BP072823	HP Acquire Method	BNA_P	HP Processing Method	BP072723

STD. NAME	STD REF.#
Tune/Reschk	SP6125
Initial Calibration Stds	SP6228,SP6229,SP6230,SP6231,SP6232,SP6233,SP6234,SP6235,SP6236
CCC	SP6232
Internal Standard/PEM	S11207 10ul/1000ul sample
ICV/I.BLK	SP6217
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BP016410.D	28 Jul 2023 07:30		MA/JU	Ok
2	SSTDCCC040	SSTDCCC040	BP016411.D	28 Jul 2023 08:03		MA/JU	Ok,M
3	PB154218BL	PB154218BL	BP016412.D	28 Jul 2023 08:37		MA/JU	Ok
4	PB154218BS	PB154218BS	BP016413.D	28 Jul 2023 09:12		MA/JU	Ok,M
5	PB154218BSD	PB154218BSD	BP016414.D	28 Jul 2023 09:48		MA/JU	Ok,M
6	PB154198BS	PB154198BS	BP016415.D	28 Jul 2023 10:22		MA/JU	Ok,M
7	PB154316BS	PB154316BS	BP016416.D	28 Jul 2023 10:57		MA/JU	Ok,M
8	PB154180BL	PB154180BL	BP016417.D	28 Jul 2023 11:38		MA/JU	Ok
9	PB154192BS	PB154192BS	BP016418.D	28 Jul 2023 12:12		MA/JU	Ok,M
10	O3580-01MS	WASTE-1MS	BP016419.D	28 Jul 2023 12:47		MA/JU	Ok,M
11	O3580-01MSD	WASTE-1MSD	BP016420.D	28 Jul 2023 13:21		MA/JU	Ok,M
12	PB154165TB	PB154165TB	BP016421.D	28 Jul 2023 13:56		MA/JU	Ok
13	O3630-03	SP-303-20230713	BP016422.D	28 Jul 2023 14:30		MA/JU	Ok
14	SSTDCCC040	SSTDCCC040EC	BP016423.D	28 Jul 2023 15:05		MA/JU	Ok
15	DFTPP	DFTPP	BP016424.D	28 Jul 2023 15:39		MA/JU	Ok
16	SSTDCCC040	SSTDCCC040	BP016425.D	28 Jul 2023 16:14		MA/JU	Ok
17	PB154028BL	PB154028BL	BP016426.D	28 Jul 2023 16:48		MA/JU	Ok
18	PB154510BL	PB154510BL	BP016427.D	28 Jul 2023 17:23		MA/JU	Ok
19	PB154510BS	PB154510BS	BP016428.D	28 Jul 2023 17:58		MA/JU	Ok,M

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Instrument ID: BNA_P

Daily Analysis Runlog For Sequence/QCBatch ID # BP072823

Review By	yogesh	Review On	7/29/2023 5:48:05 AM		
Supervise By	mohammad	Supervise On	7/29/2023 5:48:25 AM		
SubDirectory	BP072823	HP Acquire Method	BNA_P	HP Processing Method	BP072723

STD. NAME	STD REF.#
Tune/Reschk	SP6125
Initial Calibration Stds	SP6228,SP6229,SP6230,SP6231,SP6232,SP6233,SP6234,SP6235,SP6236
CCC	SP6232
Internal Standard/PEM	S11207 10ul/1000ul sample
ICV/I.BLK	SP6217
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

20	PB154442TB	PB154442TB	BP016429.D	28 Jul 2023 18:32		MA/JU	Ok
21	PB154489TB	PB154489TB	BP016430.D	28 Jul 2023 19:07		MA/JU	Ok
22	O3768-02	FL-1	BP016431.D	28 Jul 2023 19:41		MA/JU	Ok
23	O3770-02	DEL-1-RP	BP016432.D	28 Jul 2023 20:16		MA/JU	Ok
24	O3770-02MS	DEL-1-RPMS	BP016433.D	28 Jul 2023 20:50		MA/JU	Ok
25	O3770-02MSD	DEL-1-RPMSD	BP016434.D	28 Jul 2023 21:24		MA/JU	Ok
26	O3813-02	PLAUDERVILLE-1	BP016435.D	28 Jul 2023 21:58		MA/JU	Ok
27	O3797-05	HANOVER-ST-2	BP016436.D	28 Jul 2023 22:33		MA/JU	Ok
28	O3797-02	HANOVER-ST-1	BP016437.D	28 Jul 2023 23:07		MA/JU	Ok
29	O3813-08	PLAUDERVILLE-3	BP016438.D	28 Jul 2023 23:42		MA/JU	Ok
30	O3813-05	PLAUDERVILLE-2	BP016439.D	29 Jul 2023 00:16		MA/JU	Ok
31	O3770-11	HOWE-2-LP	BP016440.D	29 Jul 2023 00:50		MA/JU	Ok,M
32	O3770-08	HOWE-1-LP	BP016441.D	29 Jul 2023 01:25		MA/JU	Ok
33	O3770-05	DEL-2-RP	BP016442.D	29 Jul 2023 01:59		MA/JU	Ok

M : Manual Integration

CHEMTECH

PERCENT SOLID

Supervisor: Iwona
Analyst: JIGNESH
Date: 7/18/2023

OVENTEMP IN Celsius(°C): 107
Time IN: 17:15
In Date: 07/17/2023
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN-1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:11
Out Date: 07/18/2023
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: %SOLIDS-OVEN

QC: LB126475

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
O3638-01	TP1	1	1.15	8.81	9.96	9.14	90.7	
O3638-03	TP1-A	2	1.15	8.60	9.75	8.52	85.7	
O3638-04	TP1-B	3	1.13	8.60	9.73	8.88	90.1	
O3638-05	TP1-C	4	1.13	8.58	9.71	8.74	88.7	
O3638-06	TP1-D	5	1.12	8.51	9.63	8.58	87.7	
O3638-07	TP1-E	6	1.13	8.72	9.85	9.05	90.8	
O3638-08	TP1-F	7	1.16	8.47	9.63	8.47	86.3	
O3638-09	TP1-G	8	1.14	8.79	9.93	9.16	91.2	
O3638-10	TP1-H	9	1.12	8.44	9.56	8.55	88.0	
O3638-11	TP2	10	1.12	8.65	9.77	8.52	85.5	
O3638-13	TP2-A	11	1.15	8.81	9.96	8.99	89.0	
O3638-14	TP2-B	12	1.13	8.45	9.58	8.38	85.8	
O3638-15	TP2-C	13	1.12	8.66	9.78	8.55	85.8	
O3638-16	TP2-D	14	1.18	8.50	9.68	8.68	88.2	
O3638-17	TP2-E	15	1.18	8.54	9.72	8.52	85.9	
O3638-18	TP2-F	16	1.19	8.66	9.85	8.61	85.7	
O3638-19	TP2-G	17	1.15	8.80	9.95	8.69	85.7	
O3638-20	TP2-H	18	1.12	8.41	9.53	8.24	84.7	
O3638-21	TP6	19	1.14	8.82	9.96	9.31	92.6	
O3638-23	TP6-A	20	1.16	8.80	9.96	9.29	92.4	
O3638-24	TP6-B	21	1.11	8.55	9.66	8.72	89.0	
O3638-25	TP6-C	22	1.19	8.63	9.82	9.14	92.1	
O3638-26	TP6-D	23	1.12	8.71	9.83	8.84	88.6	
O3638-27	TP6-E	24	1.14	8.42	9.56	8.86	91.7	
O3638-28	TP6-F	25	1.11	8.86	9.97	9.24	91.8	
O3638-29	TP6-G	26	1.12	8.58	9.7	8.67	88.0	
O3638-30	TP6-H	27	1.14	8.84	9.98	9.22	91.4	
O3638-31	TP7	28	1.18	8.72	9.9	8.96	89.2	

CHEMTECH

PERCENT SOLID

Supervisor: Iwona
Analyst: JIGNESH
Date: 7/18/2023

OVENTEMP IN Celsius(°C): 107
Time IN: 17:15
In Date: 07/17/2023
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN-1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:11
Out Date: 07/18/2023
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: %SOLIDS-OVEN

QC:LB126475

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
O3638-33	TP7-A	29	1.12	8.61	9.73	8.68	87.8	
O3638-34	TP7-B	30	1.11	8.52	9.63	8.6	87.9	
O3638-35	TP7-C	31	1.18	8.81	9.99	9.37	93.0	
O3638-36	TP7-D	32	1.11	8.86	9.97	8.76	86.3	
O3638-37	TP7-E	33	1.19	8.57	9.76	8.73	88.0	
O3638-38	TP7-F	34	1.19	8.52	9.71	8.72	88.4	
O3638-39	TP7-G	35	1.13	8.59	9.72	8.71	88.2	
O3638-40	TP7-H	36	1.15	8.83	9.98	9.14	90.5	
O3639-01	TP3	37	1.12	8.70	9.82	8.57	85.6	
O3639-03	TP3-A	38	1.12	8.68	9.8	8.48	84.8	
O3639-04	TP3-B	39	1.13	8.85	9.98	9.06	89.6	
O3639-05	TP3-C	40	1.18	8.72	9.9	8.53	84.3	
O3639-06	TP3-D	41	1.13	8.55	9.68	8.66	88.1	
O3639-07	TP3-E	42	1.19	8.41	9.6	8.48	86.7	
O3639-08	TP3-F	43	1.19	8.63	9.82	8.7	87.0	
O3639-09	TP3-G	44	1.18	8.68	9.86	8.74	87.1	
O3639-10	TP3-H	45	1.11	8.50	9.61	8.65	88.7	
O3639-11	TP4	46	1.19	8.53	9.72	8.67	87.7	
O3639-13	TP4-A	47	1.15	8.51	9.66	8.36	84.7	
O3639-14	TP4-B	48	1.14	8.55	9.69	8.6	87.3	
O3639-15	TP4-C	49	1.12	8.68	9.8	8.6	86.2	
O3639-16	TP4-D	50	1.19	8.72	9.91	8.81	87.4	
O3639-17	TP4-E	51	1.15	8.54	9.69	8.64	87.7	
O3639-18	TP4-F	52	1.12	8.65	9.77	8.72	87.9	
O3639-19	TP4-G	53	1.14	8.83	9.97	8.86	87.4	
O3639-20	TP4-H	54	1.12	8.85	9.97	8.65	85.1	
O3639-21	TP5	55	1.12	8.46	9.58	8.77	90.4	
O3639-23	TP5-A	56	1.14	8.81	9.95	9.28	92.4	

CHEMTECH

PERCENT SOLID

Supervisor: Iwona
Analyst: JIGNESH
Date: 7/18/2023

OVENTEMP IN Celsius(°C): 107
Time IN: 17:15
In Date: 07/17/2023
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN-1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:11
Out Date: 07/18/2023
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: %SOLIDS-OVEN

QC: LB126475

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
O3639-24	TP5-B	57	1.17	8.60	9.77	8.97	90.7	
O3639-25	TP5-C	58	1.15	8.81	9.96	9.21	91.5	
O3639-26	TP5-D	59	1.15	8.38	9.53	8.79	91.2	
O3639-27	TP5-E	60	1.19	8.43	9.62	8.91	91.6	
O3639-28	TP5-F	61	1.19	8.55	9.74	9.00	91.3	
O3639-29	TP5-G	62	1.18	8.60	9.78	8.91	89.9	
O3639-30	TP5-H	63	1.12	8.47	9.59	8.7	89.5	
O3639-31	TP10	64	1.12	8.77	9.89	8.64	85.7	
O3639-33	TP10-A	65	1.15	8.60	9.75	8.63	87.0	
O3639-34	TP10-B	66	1.15	8.59	9.74	8.65	87.3	
O3639-35	TP10-C	67	1.17	8.60	9.77	8.63	86.7	
O3639-36	TP10-D	68	1.16	8.83	9.99	9.47	94.1	
O3639-37	TP10-E	69	1.19	8.57	9.76	8.63	86.8	
O3639-38	TP10-F	70	1.16	8.82	9.98	9.5	94.6	
O3639-39	TP10-G	71	1.16	8.77	9.93	8.78	86.9	
O3639-40	TP10-H	72	1.15	8.81	9.96	9.14	90.7	
O3640-01	TP9	73	1.12	8.47	9.59	8.72	89.7	
O3640-03	TP9-A	74	1.17	8.53	9.7	8.77	89.1	
O3640-04	TP9-B	75	1.15	8.82	9.97	9.34	92.9	
O3640-05	TP9-C	76	1.12	8.56	9.68	8.83	90.1	
O3640-06	TP9-D	77	1.11	8.69	9.8	8.88	89.4	
O3640-07	TP9-E	78	1.13	8.69	9.82	8.92	89.6	
O3640-08	TP9-F	79	1.16	8.83	9.99	9.41	93.4	
O3640-09	TP9-G	80	1.19	8.59	9.78	8.94	90.2	
O3640-10	TP9-H	81	1.19	8.60	9.79	8.93	90.0	
O3640-11	TP8	82	1.12	8.80	9.92	8.91	88.5	
O3640-13	TP8-A	83	1.11	8.88	9.99	9.55	95.0	
O3640-14	TP8-B	84	1.19	8.72	9.91	8.81	87.4	

CHEMTECH

PERCENT SOLID

Supervisor: Iwona
Analyst: JIGNESH
Date: 7/18/2023

OVENTEMP IN Celsius(°C): 107
Time IN: 17:15
In Date: 07/17/2023
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN-1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:11
Out Date: 07/18/2023
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: %SOLIDS-OVEN

QC: LB126475

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
O3640-15	TP8-C	85	1.14	8.84	9.98	9.56	95.2	
O3640-16	TP8-D	86	1.19	8.70	9.89	8.79	87.4	
O3640-17	TP8-E	87	1.15	8.84	9.99	9.03	89.1	
O3640-18	TP8-F	88	1.12	8.45	9.57	8.58	88.3	
O3640-19	TP8-G	89	1.19	8.63	9.82	8.89	89.2	
O3640-20	TP8-H	90	1.14	8.53	9.67	8.59	87.3	
O3640-21	TP12	91	1.11	8.87	9.98	8.81	86.8	
O3640-23	TP12-A	92	1.16	8.60	9.76	8.56	86.0	
O3640-24	TP12-B	93	1.19	8.63	9.82	8.84	88.6	
O3640-25	TP12-C	94	1.17	8.52	9.69	8.66	87.9	
O3640-26	TP12-D	95	1.14	8.66	9.8	8.76	88.0	
O3640-27	TP12-E	96	1.16	8.48	9.64	8.65	88.3	
O3640-28	TP12-F	97	1.16	8.77	9.93	8.82	87.3	
O3640-29	TP12-G	98	1.12	8.45	9.57	8.41	86.3	
O3640-30	TP12-H	99	1.18	8.57	9.75	8.72	88.0	
O3640-31	TP11	100	1.12	8.62	9.74	8.7	87.9	
O3640-33	TP11-A	101	1.12	8.87	9.99	9.54	94.9	
O3640-34	TP11-B	102	1.14	8.83	9.97	8.7	85.6	
O3640-35	TP11-C	103	1.12	8.61	9.73	8.48	85.5	
O3640-36	TP11-D	104	1.15	8.79	9.94	9.1	90.4	
O3640-37	TP11-E	105	1.15	8.40	9.55	8.7	89.9	
O3640-38	TP11-F	106	1.15	8.82	9.97	8.96	88.5	
O3640-39	TP11-G	107	1.15	8.84	9.99	9.31	92.3	
O3640-40	TP11-H	108	1.17	8.59	9.76	8.82	89.1	
O3641-01	TP13	109	1.14	8.83	9.97	8.4	82.2	
O3641-03	TP13-A	110	1.19	8.47	9.66	8.34	84.4	
O3641-04	TP13-B	111	1.1	8.68	9.78	8.33	83.3	
O3641-05	TP13-C	112	1.13	8.37	9.5	8.15	83.9	

CHEMTECH

PERCENT SOLID

Supervisor: Iwona
Analyst: JIGNESH
Date: 7/18/2023

OVENTEMP IN Celsius(°C): 107
Time IN: 17:15
In Date: 07/17/2023
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN-1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:11
Out Date: 07/18/2023
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: %SOLIDS-OVEN

QC: LB126475

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
O3641-06	TP13-D	113	1.17	8.58	9.75	8.28	82.9	
O3641-07	TP13-E	114	1.13	8.69	9.82	8.42	83.9	
O3641-08	TP13-F	115	1.19	8.47	9.66	8.02	80.6	
O3641-09	TP13-G	116	1.14	8.37	9.51	8.16	83.9	
O3641-10	TP13-H	117	1.12	8.63	9.75	8.4	84.4	
O3641-11	TP14	118	1.18	8.52	9.7	8.4	84.7	
O3641-13	TP14-A	119	1.12	8.72	9.84	8.67	86.6	
O3641-14	TP14-B	120	1.14	8.80	9.94	8.62	85.0	
O3641-15	TP14-C	121	1.16	8.41	9.57	8.31	85.0	
O3641-16	TP14-D	122	1.17	8.58	9.75	8.5	85.4	
O3641-17	TP14-E	123	1.17	8.45	9.62	8.33	84.7	
O3641-18	TP14-F	124	1.15	8.82	9.97	9.09	90.0	
O3641-19	TP14-G	125	1.18	8.54	9.72	8.54	86.2	
O3641-20	TP14-H	126	1.18	8.66	9.84	8.24	81.5	
O3641-21	TP16	127	1.18	8.54	9.72	8.6	86.9	
O3641-23	TP16-A	128	1.16	8.74	9.9	8.78	87.2	
O3641-24	TP16-B	129	1.19	8.55	9.74	7.9	78.5	
O3641-25	TP16-C	130	1.17	8.77	9.94	8.75	86.4	
O3641-26	TP16-D	131	1.19	8.53	9.72	8.53	86.0	
O3641-27	TP16-E	132	1.15	8.80	9.95	8.28	81.0	
O3641-28	TP16-F	133	1.19	8.50	9.69	7.71	76.7	
O3641-29	TP16-G	134	1.19	8.47	9.66	7.4	73.3	
O3641-30	TP16-H	135	1.15	8.37	9.52	7.47	75.5	
O3641-31	TP15	136	1.12	8.71	9.83	8.37	83.2	
O3641-33	TP15-A	137	1.12	8.46	9.58	7.86	79.7	
O3641-34	TP15-B	138	1.15	8.38	9.53	7.93	80.9	
O3641-35	TP15-C	139	1.17	8.50	9.67	8.06	81.1	
O3641-36	TP15-D	140	1.16	8.68	9.84	8.8	88.0	

CHEMTECH

PERCENT SOLID

Supervisor: Iwona
Analyst: JIGNESH
Date: 7/18/2023

OVENTEMP IN Celsius(°C): 107
Time IN: 17:15
In Date: 07/17/2023
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN-1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:11
Out Date: 07/18/2023
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: %SOLIDS-OVEN

QC: LB126475

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
O3641-37	TP15-E	141	1.16	8.78	9.94	8.57	84.4	
O3641-38	TP15-F	142	1.15	8.84	9.99	8.4	82.0	
O3641-39	TP15-G	143	1.18	8.57	9.75	7.99	79.5	
O3641-40	TP15-H	144	1.15	8.80	9.95	8.32	81.5	
O3643-01	01A-01B-01C	145	1.00	1.00	2.00	2.00	100.0	CAULKING SAMPLE
O3644-01	01A-01B-01C	146	1.00	1.00	2.00	2.00	100.0	CAULKING SAMPLE
O3645-01	SB-02-(3-5)	147	1.15	8.81	9.96	8.75	86.3	
O3645-02	SB-04-(1-5)	148	1.15	8.36	9.51	8.78	91.3	
O3645-03	SB-07-(1-3)	149	1.13	8.75	9.88	8.09	79.5	
O3645-04	SB-08-(10.5-2.0)	150	1.13	8.40	9.53	7.4	74.6	
O3645-05	SB-09-(2.0-4.0)	151	1.19	8.71	9.9	8.11	79.4	
O3645-06	SB-10-(0.5-2.0)	152	1.19	8.43	9.62	8.21	83.3	
O3645-07	DUP	153	1.18	8.81	9.99	8.3	80.8	
O3645-09	O3645-02MS	154	1.15	8.36	9.51	8.78	91.3	
O3645-10	O3645-02MSD	155	1.15	8.36	9.51	8.78	91.3	
O3646-01	GATE-1	164	1.14	8.85	9.99	8.52	83.4	
O3646-03	GATE-1-EPH-2	165	1.12	8.85	9.97	8.53	83.7	
O3646-04	YARD-1	166	1.18	8.45	9.63	8.8	90.2	
O3646-06	YARD-1-EPH-2	167	1.1	8.79	9.89	8.36	82.6	
O3647-01	SAMPLE-1	156	1.16	8.50	9.66	8.89	90.9	
O3648-01	OK-01-071723	168	1.13	8.45	9.58	7.93	80.5	
O3648-02	OK-01-071723-EPH-2	169	1.13	8.45	9.58	7.93	80.5	
O3649-01	X182-S5	157	1.15	8.50	9.65	8.14	82.2	
O3649-02	X182-B4	158	1.15	8.81	9.96	8.58	84.3	
O3649-03	X182-S3	159	1.12	8.72	9.84	8.9	89.2	
O3649-04	X182-B3	160	1.13	8.53	9.66	8.51	86.5	
O3649-05	X182-B3-DUP	161	1.19	8.71	9.9	8.85	87.9	
O3649-06	X182-S4	162	1.16	8.83	9.99	9.39	93.2	

CHEMTECH

PERCENT SOLID

Supervisor: Iwona
Analyst: JIGNESH
Date: 7/18/2023

OVENTEMP IN Celsius(°C): 107
Time IN: 17:15
In Date: 07/17/2023
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN-1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:11
Out Date: 07/18/2023
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: %SOLIDS-OVEN

QC: LB126475

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
O3650-01	NWB-1933	163	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
O3654-01	72-12016	170	1.19	8.57	9.76	8.96	90.7	
O3654-03	72-12016-EPH-2	171	1.18	8.54	9.72	9.15	93.3	

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

WORKLIST(Hardcopy Internal Chain)

VB126475

WorkList Name : %1-071723 **WorkList ID :** 171905 **Department :** Wet-Chemistry **Date :** 07-16-2023 06:33:35

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
O3638-01	TP1	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3638-03	TP1-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3638-04	TP1-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3638-05	TP1-C	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3638-06	TP1-D	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3638-07	TP1-E	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3638-08	TP1-F	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3638-09	TP1-G	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3638-10	TP1-H	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3638-11	TP2	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3638-13	TP2-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3638-14	TP2-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3638-15	TP2-C	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3638-16	TP2-D	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3638-17	TP2-E	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3638-18	TP2-F	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3638-19	TP2-G	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3638-20	TP2-H	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3638-21	TP6	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3638-23	TP6-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3638-24	TP6-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO

Date/Time 07-17-23 ~~07-16-23~~ 15:00

Raw Sample Received by: JD (WC)

Raw Sample Relinquished by: L.C (Sm)

Date/Time 07-17-23 ~~07-16-23~~ 17:20

Raw Sample Received by: L.C Sm

Raw Sample Relinquished by: JD (WC)

WORKLIST(Hardcopy Internal Chain)

NB 126475

WorkList Name : %1-071723 **WorkList ID :** 171905 **Department :** Wet-Chemistry **Date :** 07-16-2023 06:33:35

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
O3638-25	TP6-C	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3638-26	TP6-D	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3638-27	TP6-E	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3638-28	TP6-F	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3638-29	TP6-G	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3638-30	TP6-H	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3638-31	TP7	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3638-33	TP7-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3638-34	TP7-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3638-35	TP7-C	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3638-36	TP7-D	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3638-37	TP7-E	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3638-38	TP7-F	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3638-39	TP7-G	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3638-40	TP7-H	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3639-01	TP3	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3639-03	TP3-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3639-04	TP3-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3639-05	TP3-C	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3639-06	TP3-D	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3639-07	TP3-E	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO

JP 07-17-23

Date/Time 07-16-23 1510

Raw Sample Received by: JP COC

Raw Sample Relinquished by: T.C (Sam)

JP 07-17-23

Date/Time 07-16-23 1720

Raw Sample Received by: T.C (Sam)

Raw Sample Relinquished by: JP COC

WORKLIST(Hardcopy Internal Chain)

VB 126475

WorkList Name : %1-071723 **WorkList ID :** 171905 **Department :** Wet-Chemistry **Date :** 07-16-2023 06:33:35

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
O3639-08	TP3-F	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3639-09	TP3-G	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3639-10	TP3-H	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3639-11	TP4	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3639-13	TP4-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3639-14	TP4-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3639-15	TP4-C	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3639-16	TP4-D	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3639-17	TP4-E	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3639-18	TP4-F	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3639-19	TP4-G	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3639-20	TP4-H	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3639-21	TP5	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3639-23	TP5-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3639-24	TP5-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3639-25	TP5-C	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3639-26	TP5-D	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3639-27	TP5-E	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3639-28	TP5-F	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3639-29	TP5-G	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3639-30	TP5-H	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO

JD 07-17-23

Date/Time ~~07-16-23~~ 15:00

Raw Sample Received by: JD (WC)

Raw Sample Relinquished by: I.C (Sam)

JD 07-17-23

Date/Time ~~07-16-23~~ 7:20

Raw Sample Received by: I.C (Sam)

Raw Sample Relinquished by: JD (WC)

WORKLIST(Hardcopy Internal Chain)

MB126475

WorkList Name : %1-071723 **WorkList ID :** 171905 **Department :** Wet-Chemistry **Date :** 07-16-2023 06:33:35

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
O3639-31	TP10	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3639-33	TP10-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3639-34	TP10-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3639-35	TP10-C	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3639-36	TP10-D	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3639-37	TP10-E	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3639-38	TP10-F	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3639-39	TP10-G	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3639-40	TP10-H	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3640-01	TP9	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3640-03	TP9-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3640-04	TP9-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3640-05	TP9-C	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3640-06	TP9-D	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3640-07	TP9-E	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3640-08	TP9-F	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3640-09	TP9-G	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3640-10	TP9-H	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3640-11	TP8	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3640-13	TP8-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3640-14	TP8-B JB	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11 JP 07-17-23	07/14/2023	Chemtech -SO

Date/Time ~~07-16-23~~ 07-17-23 1510

Raw Sample Received by: JP (WC)

Raw Sample Relinquished by: T.C (Sm)

Date/Time ~~07-16-23~~ 1420

Raw Sample Received by: T.C (Sm)

Raw Sample Relinquished by: JP (WC)

WORKLIST(Hardcopy Internal Chain)

126475

WorkList Name : %1-071723 **WorkList ID :** 171905 **Department :** Wet-Chemistry **Date :** 07-16-2023 06:33:35

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
O3640-15	TP8-C	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3640-16	TP8-D	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3640-17	TP8-E	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3640-18	TP8-F	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3640-19	TP8-G	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3640-20	TP8-H	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3640-21	TP12	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3640-23	TP12-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3640-24	TP12-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3640-25	TP12-C	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3640-26	TP12-D	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3640-27	TP12-E	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3640-28	TP12-F	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3640-29	TP12-G	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3640-30	TP12-H	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3640-31	TP11	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3640-33	TP11-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3640-34	TP11-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3640-35	TP11-C	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3640-36	TP11-D	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3640-37	TP11-E	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO

30 07-17-23

Date/Time 07-16-23 1500

Raw Sample Received by: TH (WC)

Raw Sample Relinquished by: L.C (SMO)

07-17-23 TP

Date/Time 07-16-23 1720

Raw Sample Received by: L.C (SMO)

Raw Sample Relinquished by: TH (WC)

WORKLIST(Hardcopy Internal Chain)

LB 126475

WorkList Name : %1-071723 **WorkList ID :** 171905 **Department :** Wet-Chemistry **Date :** 07-16-2023 06:33:35

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
O3640-38	TP11-F	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3640-39	TP11-G	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3640-40	TP11-H	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3641-01	TP13	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3641-03	TP13-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3641-04	TP13-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3641-05	TP13-C	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3641-06	TP13-D	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3641-07	TP13-E	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3641-08	TP13-F	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3641-09	TP13-G	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3641-10	TP13-H	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3641-11	TP14	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3641-13	TP14-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3641-14	TP14-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3641-15	TP14-C	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3641-16	TP14-D	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3641-17	TP14-E	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3641-18	TP14-F	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3641-19	TP14-G	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3641-20 JB	TP14-H 07-17-23	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11 JD 07-17-23	07/14/2023	Chemtech -SO

Date/Time 07-16-23 15:00

Raw Sample Received by: JD (CDC)

Raw Sample Relinquished by: L.C (Sm)

Date/Time 07-16-23 17:40

Raw Sample Received by: L.C (Sm)

Raw Sample Relinquished by: JD (CDC)

WORKLIST(Hardcopy Internal Chain)

VB 126475

WorkList Name : %1-071723 **WorkList ID :** 171905 **Department :** Wet-Chemistry **Date :** 07-16-2023 06:33:35

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
O3641-21	TP16	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3641-23	TP16-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3641-24	TP16-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3641-25	TP16-C	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3641-26	TP16-D	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3641-27	TP16-E	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3641-28	TP16-F	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3641-29	TP16-G	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3641-30	TP16-H	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3641-31	TP15	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3641-33	TP15-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3641-34	TP15-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3641-35	TP15-C	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3641-36	TP15-D	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3641-37	TP15-E	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3641-38	TP15-F	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3641-39	TP15-G	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3641-40	TP15-H	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/14/2023	Chemtech -SO
O3643-01	01A-01B-01C	Solid	Percent Solids	Cool 4 deg C	BSIG01	I11	07/17/2023	Chemtech -SO
O3644-01	01A-01B-01C	Solid	Percent Solids	Cool 4 deg C	BSIG01	I11	07/17/2023	Chemtech -SO
O3645-01	SB-02-(3-5)	Solid	Percent Solids	Cool 4 deg C	LABE01	I11	07/12/2023	Chemtech -SO

07-17-23 JP

Date/Time 07-16-23 15:00

Raw Sample Received by: JP (COC)

Raw Sample Relinquished by: J.C Sm

JP 07-17-23

Date/Time 07-16-23 17:20

Raw Sample Received by: J.C Sm

Raw Sample Relinquished by: JP (COC)

WORKLIST(Hardcopy Internal Chain)

VB 126475

WorkList Name : %1-071723 **WorkList ID :** 171905 **Department :** Wet-Chemistry **Date :** 07-16-2023 06:33:35

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
O3645-02	SB-04-(1-5)	Solid	Percent Solids	Cool 4 deg C	LABE01	I11	07/12/2023	Chemtech -SO
O3645-03	SB-07-(1-3)	Solid	Percent Solids	Cool 4 deg C	LABE01	I11	07/13/2023	Chemtech -SO
O3645-04	SB-08-(10.5-2.0)	Solid	Percent Solids	Cool 4 deg C	LABE01	I11	07/13/2023	Chemtech -SO
O3645-05	SB-09-(2.0-4.0)	Solid	Percent Solids	Cool 4 deg C	LABE01	I11	07/13/2023	Chemtech -SO
O3645-06	SB-10-(0.5-2.0)	Solid	Percent Solids	Cool 4 deg C	LABE01	I11	07/13/2023	Chemtech -SO
O3645-07	DUP	Solid	Percent Solids	Cool 4 deg C	LABE01	I11	07/13/2023	Chemtech -SO
O3645-09	O3645-02MS	Solid	Percent Solids	Cool 4 deg C	LABE01	I11	07/12/2023	Chemtech -SO
O3645-10	O3645-02MSD	Solid	Percent Solids	Cool 4 deg C	LABE01	I11	07/12/2023	Chemtech -SO
O3646-01	GATE-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/17/2023	Chemtech -SO
O3646-03	GATE-1-EPH-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/17/2023	Chemtech -SO
O3646-04	YARD-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/17/2023	Chemtech -SO
O3646-06	YARD-1-EPH-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/17/2023	Chemtech -SO
O3647-01	SAMPLE-1	Solid	Percent Solids	Cool 4 deg C	PREM01	I11	07/13/2023	Chemtech -SO
O3648-01	OK-01-071723	Solid	Percent Solids	Cool 4 deg C	PSEG05	I11	07/17/2023	Chemtech -SO
O3648-02	OK-01-071723-EPH-2	Solid	Percent Solids	Cool 4 deg C	PSEG05	I11	07/17/2023	Chemtech -SO
O3649-01	X182-S5	Solid	Percent Solids	Cool 4 deg C	ATCE02	I11	07/17/2023	Chemtech -SO
O3649-02	X182-B4	Solid	Percent Solids	Cool 4 deg C	ATCE02	I11	07/17/2023	Chemtech -SO
O3649-03	X182-S3	Solid	Percent Solids	Cool 4 deg C	ATCE02	I11	07/17/2023	Chemtech -SO
O3649-04	X182-B3	Solid	Percent Solids	Cool 4 deg C	ATCE02	I11	07/17/2023	Chemtech -SO
O3649-05	X182-B3-DUP	Solid	Percent Solids	Cool 4 deg C	ATCE02	I11	07/17/2023	Chemtech -SO
O3649-06	X182-S4	Solid	Percent Solids	Cool 4 deg C	ATCE02	I11	07/17/2023	Chemtech -SO

TP 07-17-23

Date/Time 07-16-23 15:00

Raw Sample Received by: JDC(WSC)

Raw Sample Relinquished by: K. Cline

Date/Time 07-17-23 07-16-23 TP 17:20

Raw Sample Received by: K. Cline

Raw Sample Relinquished by: JDC(WSC)

WORKLIST(Hardcopy Internal Chain)

WB 126475

WorkList Name : %1-071723 **WorkList ID :** 171905 **Department :** Wet-Chemistry **Date :** 07-16-2023 06:33:35

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
O3650-01	NWB-1933	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/17/2023	Chemtech -SO
O3654-01	72-12016	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/17/2023	Chemtech -SO
O3654-03	72-12016-EPH-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	I11	07/17/2023	Chemtech -SO

07-17-23 JP

Date/Time ~~07-16-23~~ 15:00

Raw Sample Received by: JP (COC)

Raw Sample Relinquished by: L.C (sm)

JP 07-17-23

Date/Time ~~07-16-23~~ 17:20

Raw Sample Received by: L.C (sm)

Raw Sample Relinquished by: JP (COC)

CHEMTECH

EXTRACTION LOGPAGE

PB154218

SOP ID:	M3510C,3580A-Extraction SVOC-19				
Clean Up SOP #:	N/A			**Extraction Start Date :**	07/17/2023
Matrix :	Water			**Extraction Start Time :**	08:30
Weigh By:	N/A	**Extraction By:**	RJ	**Extraction End Date :**	07/17/2023
Balance check:	N/A	**Filter By:**	RP	**Extraction End Time :**	15:00
Balance ID:	N/A	**pH Meter ID:**	N/A	**Concentration By:**	RS
pH Strip Lot#:	E3507	**Hood ID:**	4,6,7	**Supervisor By :**	rajesh

Extraction Method: [√] Seperatory Funnel [ ] Continious Liquid/Liquid [ ] Sonication [ ] Waste Dilution [ ] Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	50/100 PPM	SP6237
Surrogate	1.0ML	100/150 PPM	SP6252
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Methylene Chloride	N/A	E3543
Baked Na2SO4	N/A	EP2359
H2SO4 1:1	N/A	EP2316
10N NaoH	N/A	EP2326
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

pH Adjusted to < 2 with 1: H2SO4 and > 11 with 10N NaoH, 1.5ML Vial Lot # 2210678.O 3645-08 Added in batch at 10:17.

KD Bath ID:	WATER BATH-1	**Envap ID:**	NE VAP-02
KD Bath Temperature:	60 °C	**Envap Temperature:**	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
07/17/23	RP (Ext. Lab)	YP. SVOC.
15:05	**Preparation Group**	**Analysis Group**

CHEMTECH

EXTRACTION LOGPAGE

PrepBatch ID : PB154218

Analytical Method: M3510C,3580A-Extraction SVOC-19

Concentration Date: 07/17/2023

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB154218BL	SBLK218	SVOC-TCL BNA -20	1000	6	ritesh	rajesh	1			SEP-1
PB154218BS	SLCS218	SVOC-TCL BNA -20	1000	6	ritesh	rajesh	1			2
PB154218BSD	SLCSD218	SVOC-TCL BNA -20	1000	6	ritesh	rajesh	1			3
O3630-03	SP-303-20230713	SVOCMS Group5	1000	6	ritesh	rajesh	1	B		4
O3632-09	RINSATE-BLNAK	SVOCMS Group1	1000	6	ritesh	rajesh	1			5
O3637-01	A508	SVOC-TCL BNA -20	1000	6	ritesh	rajesh	1	L		6
O3645-08	RINSATE-BLANK	SVOCMS Group1	1000	6	ritesh	rajesh	1	E		7

* **Extracts relinguished on the same date as received.**

7/7/23

7/14/23 8:30

WORKLIST(Hardcopy Internal Chain)

WorkList Name : o3632s **WorkList ID :** 171919 **Department :** Extraction **Date :** 07-17-2023 08:22:15

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
O3630-03	SP-303-20230713	Water	SVOCMS Group5	Cool 4 deg C	TETR06	I11	07/13/2023	8270E
O3632-09	RINSATE-BLNAK	Water	SVOCMS Group1	Cool 4 deg C	LABE01	I11	07/11/2023	8270E
O3637-01	A508	Water	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	I11	07/14/2023	8270E

Date/Time 7/17/23 8:25
Raw Sample Received by: RS (Ext-lab)
Raw Sample Relinquished by: CR SM

Date/Time 7/17/23 9:20
Raw Sample Received by: CR SM
Raw Sample Relinquished by: RS (Ext-lab)

WORKLIST(Hardcopy Internal Chain)

WorkList Name : O3645 **WorkList ID :** 171941 **Department :** Extraction **Date :** 07-17-2023 10:17:54

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
O3645-08	RINSATE-BLANK	Water	SVOCMS Group1	Cool 4 deg C	LABE01	I11	07/12/2023	8270E

Date/Time 07/17/23 10:14
Raw Sample Received by: RJ (Ext-Lab)
Raw Sample Relinquished by:

Date/Time 07/17/23 10:25
Raw Sample Received by:
Raw Sample Relinquished by: RJ (Ext-Lab)

CHEMTECH

EXTRACTION LOGPAGE

PB154258

SOP ID:	M3541-ASE Extraction-14				
Clean Up SOP #:	N/A			**Extraction Start Date :**	07/18/2023
Matrix :	Solid			**Extraction Start Time :**	09:45
Weigh By:	RJ	**Extraction By:**	RJ	**Extraction End Date :**	07/18/2023
Balance check:	RJ	**Filter By:**	RJ	**Extraction End Time :**	13:30
Balance ID:	EX-SC-2	**pH Meter ID:**	N/A	**Concentration By:**	RS
pH Strip Lot#:	N/A	**Hood ID:**	3,7	**Supervisor By :**	rajesh

Extraction Method: ☐ Seperatory Funnel ☐ Continious Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☑ Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	50/100 PPM	SP6237
Surrogate	1.0ML	100/150 PPM	SP6252
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
MeCl2/Acetone/1:1	N/A	EP2349
Baked Na2SO4	N/A	EP2361
Sand	N/A	E2865
Methylene Chloride	N/A	E3543
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5ML Vial Lot # 2210678.

KD Bath ID:	N/A	**Envap ID:**	NE VAP-02
KD Bath Temperature:	N/A	**Envap Temperature:**	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
07/18/23	RP (Ext. Lab)	JH/SVOC Lab
13:35	**Preparation Group**	**Analysis Group**

CHEMTECH

EXTRACTION LOGPAGE

PrepBatch ID : PB154258

Analytical Method: M3541-ASE Extraction-14 **Concentration Date:** 07/18/2023

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB154258BL	SBLK258	SVOC-TCL BNA -20	30.00	N/A	ritesh	RUPESH	1			U1-1
PB154258BS	SLCS258	SVOC-TCL BNA -20	30.03	N/A	ritesh	RUPESH	1			2
O3645-01	SB-02-(3-5)	SVOCMS Group1	30.04	N/A	ritesh	RUPESH	1	E		3
O3645-02	SB-04-(1-5)	SVOCMS Group1	30.08	N/A	ritesh	RUPESH	1	E		4
O3645-03	SB-07-(1-3)	SVOCMS Group1	30.07	N/A	ritesh	RUPESH	1	E		5
O3645-04	SB-08-(10.5-2.0)	SVOCMS Group1	30.01	N/A	ritesh	RUPESH	1	E		6
O3645-05	SB-09-(2.0-4.0)	SVOCMS Group1	30.03	N/A	ritesh	RUPESH	1	E		U4-1
O3645-06	SB-10-(0.5-2.0)	SVOCMS Group1	30.05	N/A	ritesh	RUPESH	1	E		2
O3645-07	DUP	SVOCMS Group1	30.02	N/A	ritesh	RUPESH	1	E		3
O3645-09	O3645-02MS	SVOCMS Group1	30.03	N/A	ritesh	RUPESH	1	E		4
O3645-10	O3645-02MSD	SVOCMS Group1	30.05	N/A	ritesh	RUPESH	1	E		5
O3646-01	GATE-1	SVOC-TCL BNA -20	50.04	N/A	ritesh	RUPESH	1	F		6
O3646-04	YARD-1	SVOC-TCL BNA -20	50.08	N/A	ritesh	RUPESH	1	F		U5-1
O3647-01	SAMPLE-1	SVOC-TCL BNA -20	30.06	N/A	ritesh	RUPESH	1	E		2
O3648-01	OK-01-071723	SVOC-TCL BNA -20	50.02	N/A	ritesh	RUPESH	1	E		3
O3652-01	TP19	SVOC-TCL BNA -20	50.06	N/A	ritesh	RUPESH	1	E		4
O3652-11	TP18	SVOC-TCL BNA -20	50.09	N/A	ritesh	RUPESH	1	E		5
O3652-21	TP17	SVOC-TCL BNA -20	50.05	N/A	ritesh	RUPESH	1	E		6
O3653-01	TP20	SVOC-TCL BNA -20	50.03	N/A	ritesh	RUPESH	1	E		U6-1
O3653-11	TP21	SVOC-TCL BNA -20	50.07	N/A	ritesh	RUPESH	1	E		2
O3653-21	TP22	SVOC-TCL BNA -20	50.04	N/A	ritesh	RUPESH	1	E		3
O3654-01	72-12016	SVOC-TCL BNA -20	50.08	N/A	ritesh	RUPESH	1	E		4

* **Extracts relinquished on the same date as received.**

7/19/23

WORKLIST(Hardcopy Internal Chain)

WorkList Name : O3645S **WorkList ID :** 171958 **Department :** Extraction **Date :** 07-18-2023 08:42:03

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
O3645-01	SB-02-(3-5)	Solid	SVOCMS Group1	Cool 4 deg C	LABE01	I11	07/12/2023	8270E
O3645-02	SB-04-(1-5)	Solid	SVOCMS Group1	Cool 4 deg C	LABE01	I11	07/12/2023	8270E
O3645-03	SB-07-(1-3)	Solid	SVOCMS Group1	Cool 4 deg C	LABE01	I11	07/13/2023	8270E
O3645-04	SB-08-(10.5-2.0)	Solid	SVOCMS Group1	Cool 4 deg C	LABE01	I11	07/13/2023	8270E
O3645-05	SB-09-(2.0-4.0)	Solid	SVOCMS Group1	Cool 4 deg C	LABE01	I11	07/13/2023	8270E
O3645-06	SB-10-(0.5-2.0)	Solid	SVOCMS Group1	Cool 4 deg C	LABE01	I11	07/13/2023	8270E
O3645-07	DUP	Solid	SVOCMS Group1	Cool 4 deg C	LABE01	I11	07/12/2023	8270E
O3645-09	O3645-02MS	Solid	SVOCMS Group1	Cool 4 deg C	LABE01	I11	07/12/2023	8270E
O3645-10	O3645-02MSD	Solid	SVOCMS Group1	Cool 4 deg C	LABE01	I11	07/12/2023	8270E
O3646-01	GATE-1	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	I11	07/17/2023	8270E
O3646-04	YARD-1	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	I11	07/17/2023	8270E
O3647-01	SAMPLE-1	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PREM01	I11	07/13/2023	8270E
O3648-01	OK-01-071723	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG05	I11	07/17/2023	8270E
O3652-01	TP19	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	I11	07/17/2023	8270E
O3652-11	TP18	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	I11	07/17/2023	8270E
O3652-21	TP17	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	I11	07/17/2023	8270E
O3653-01	TP20	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	I11	07/17/2023	8270E
O3653-11	TP21	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	I11	07/17/2023	8270E
O3653-21	TP22	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	I11	07/17/2023	8270E
O3654-01	72-12016	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	I11	07/17/2023	8270E

Date/Time 07/18/23 9:40
Raw Sample Received by: RJ CEnt lab
Raw Sample Relinquished by: SH

Date/Time 07/18/23 10:10
Raw Sample Received by: SH
Raw Sample Relinquished by: RJ CEnt-lab

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Prep Standard - Chemical Standard Summary

Order ID : O3645

Test : SVOCMS Group1

Prepbatch ID : PB154218,PB154258,

Sequence ID/Qc Batch ID: BF071923,BF072823,BF080123,BG080223,BM072823,BP072823,

Standard ID :
EP2316,EP2326,EP2349,EP2359,EP2361,SP6125,SP6216,SP6217,SP6228,SP6229,SP6230,SP6231,SP6232,SP6233,
SP6234,SP6235,SP6236,SP6237,SP6252,

Chemical ID :
E2865,E3382,E3412,E3464,E3515,E3518,E3519,E3521,E3523,E3534,E3543,M5211,S10245,S10310,S10315,S10327,S
10330,S10393,S10405,S10571,S10614,S10615,S10616,S10617,S10618,S10619,S10620,S10621,S10622,S10793,S109
52,S10953,S10954,S10955,S10956,S10957,S10958,S10959,S11037,S11039,S11040,S11042,S11052,S11124,S11125,S
11126,S11127,S11135,S11174,S11176,S11177,S11178,S11179,S11198,S11201,S11207 10ul/1000ul sample,S11212
10ul/1000ul sample,S11213 10ul/1000ul sample,S11409,S9240,S9674,S9737,S9827,S9903,S9921,W2606,

CHEMTECH

284, Sheffield Street, Mountainside NJ 07092 (908) 789 - 8900

Extractions STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
314	1.1 H2SO4 SOLN	EP2316	03/29/2023	09/29/2023	Rajesh Parikh	None	None	RUPESHKUMAR SHAH 03/29/2023

FROM 1000.00000ml of M5211 = Final Quantity: 2000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1874	10 N SODIUM HYDROXIDE SOLN	EP2326	04/19/2023	08/04/2023	Rajesh Parikh	Extraction_SCALE_2 (EX-SC-2)	None	RUPESHKUMAR SHAH 04/19/2023

FROM 1000.00000ml of W2606 + 400.00000gram of E3382 = Final Quantity: 1000.000 ml

CHEMTECH

284, Sheffield Street, Mountainside NJ 07092 (908) 789 - 8900

Extractions STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2017	1:1 ACETONE/METHYLENE CHLORIDE	EP2349	06/17/2023	12/13/2023	Rajesh Parikh	None	None	RUPESHKUMAR SHAH 06/17/2023

FROM 8000.00000ml of E3518 + 8000.00000ml of E3519 = Final Quantity: 16000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3923	Baked Sodium Sulfate	EP2359	07/11/2023	10/23/2023	Sohil Jodhani	Extraction_SCALE_2 (EX-SC-2)	None	RUPESHKUMAR SHAH 07/11/2023

FROM 4000.00000gram of E3412 = Final Quantity: 4000.000 gram

CHEMTECH

284, Sheffield Street, Mountainside NJ 07092 (908) 789 - 8900

Extractions STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3923	Baked Sodium Sulfate	EP2361	07/17/2023	10/23/2023	Rajesh Parikh	Extraction_SCALE_2 (EX-SC-2)	None	RUPESHKUMAR SHAH 07/17/2023

FROM 4000.00000gram of E3412 = Final Quantity: 4000.000 gram

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3895	50 ug/ml DFTPP 8270E	SP6125	02/15/2023	08/02/2023	Christian Giraldo	None	None	mohammad ahmed 02/17/2023

FROM 1.00000ml of S10245 + 19.00000ml of E3464 = Final Quantity: 20.000 ml

CHEMTECH

284, Sheffield Street, Mountainside NJ 07092 (908) 789 - 8900

SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
18	Second Source Calibration Stock Standard, 100 PPM, (8270/625/CLP)	SP6216	06/06/2023	09/27/2023	Yogesh Patel	None	None	Jagrut Upadhyay 06/13/2023

FROM 0.04000ml of S9737 + 0.08000ml of S10614 + 0.10000ml of S10571 + 0.20000ml of S11037 + 0.20000ml of S11124 + 0.20000ml of S11174 + 1.18000ml of E3515 = Final Quantity: 2.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
416	40 ng BNA ICV, 40 PPM	SP6217	06/06/2023	09/27/2023	Yogesh Patel	None	None	Jagrut Upadhyay 06/13/2023

FROM 0.01000ml of S11198 + 0.60000ml of E3515 + 0.40000ml of SP6216 = Final Quantity: 1.010 ml

CHEMTECH

284, Sheffield Street, Mountainside NJ 07092 (908) 789 - 8900

SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3764	8270/625 Stock solution 100 ng	SP6228	06/21/2023	11/19/2023	Jagrut Upadhyay	None	None	mohammad ahmed 06/22/2023

FROM 0.26700ml of S9240 + 0.40000ml of S11409 + 0.50000ml of S9921 + 1.00000ml of S10310 + 1.00000ml of S10315 + 1.00000ml of S10327 + 1.00000ml of S10330 + 1.00000ml of S10793 + 3.83300ml of E3521 = Final Quantity: 10.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
413	80 ng BNA ICC, 80 PPM	SP6229	06/21/2023	11/19/2023	Jagrut Upadhyay	None	None	mohammad ahmed 06/22/2023

FROM 0.01000ml of S11201 + 0.20000ml of E3521 + 0.80000ml of SP6228 = Final Quantity: 1.010 ml

CHEMTECH

284, Sheffield Street, Mountainside NJ 07092 (908) 789 - 8900

SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
412	60 ng BNA ICC, 60 PPM	SP6230	06/21/2023	11/19/2023	Jagrut Upadhyay	None	None	mohammad ahmed 06/22/2023

FROM 0.01000ml of S11201 + 0.40000ml of E3521 + 0.60000ml of SP6228 = Final Quantity: 1.010 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
411	50 ng BNA ICC, 50 PPM	SP6231	06/21/2023	11/19/2023	Jagrut Upadhyay	None	None	mohammad ahmed 06/22/2023

FROM 0.01000ml of S11201 + 0.50000ml of E3521 + 0.50000ml of SP6228 = Final Quantity: 1.010 ml

CHEMTECH

284, Sheffield Street, Mountainside NJ 07092 (908) 789 - 8900

SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
410	40 ng BNA ICC, 40 PPM	SP6232	06/21/2023	11/19/2023	Jagrut Upadhyay	None	None	mohammad ahmed 06/22/2023

FROM 0.01000ml of S11201 + 0.60000ml of E3521 + 0.40000ml of SP6228 = Final Quantity: 1.010 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3678	20 ng BNA ICC, 20 PPM	SP6233	06/21/2023	11/19/2023	Jagrut Upadhyay	None	None	mohammad ahmed 06/22/2023

FROM 0.01000ml of S11201 + 0.80000ml of E3521 + 0.20000ml of SP6228 = Final Quantity: 1.010 ml

CHEMTECH

284, Sheffield Street, Mountainside NJ 07092 (908) 789 - 8900

SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
408	10 ng BNA ICC, 10 PPM	SP6234	06/21/2023	11/19/2023	Jagrut Upadhyay	None	None	mohammad ahmed 06/22/2023

FROM 0.01000ml of S11201 + 0.90000ml of E3521 + 0.10000ml of SP6228 = Final Quantity: 1.010 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
407	5 ng BNA ICC, 5 PPM	SP6235	06/21/2023	11/19/2023	Jagrut Upadhyay	None	None	mohammad ahmed 06/22/2023

FROM 0.01000ml of S11201 + 0.95000ml of E3521 + 0.05000ml of SP6228 = Final Quantity: 1.010 ml

CHEMTECH

284, Sheffield Street, Mountainside NJ 07092 (908) 789 - 8900

SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
175	2.5 ng BNA ICC, 2.5 PPM	SP6236	06/21/2023	11/19/2023	Jagrut Upadhyay	None	None	mohammad ahmed 06/22/2023

FROM 0.01000ml of S11201 + 0.50000ml of E3521 + 0.50000ml of SP6235 = Final Quantity: 1.010 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
171	8270/625 Spike Solution, 50/100 PPM	SP6237	06/24/2023	08/07/2023	Yogesh Patel	None	None	mohammad ahmed 07/07/2023

FROM 0.20000ml of S10393 + 0.20000ml of S10405 + 0.20000ml of S11135 + 0.20000ml of S9674 + 0.20000ml of S9903 + 1.00000ml of S11052 + 1.25000ml of S11176 + 1.25000ml of S11177 + 1.25000ml of S11178 + 1.25000ml of S11179 + 1.50000ml of S11042 + 1.50000ml of S11127 + 1.50000ml of S9827 + 1.75000ml of S11039 + 1.75000ml of S11040 + 1.75000ml of S11125 + 1.75000ml of S11126 + 81.50000ml of E3523 = Final Quantity: 100.000 ml

CHEMTECH

284, Sheffield Street, Mountainside NJ 07092 (908) 789 - 8900

SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
19	8270/CLP Surrogate Solution, 100 PPM BN/150 PPM ACID	SP6252	06/29/2023	12/29/2023	Yogesh Patel	None	None	mohammad ahmed 07/07/2023

FROM 1.50000ml of S10952 + 1.50000ml of S10953 + 1930.00000ml of E3534 + 2.00000ml of S10954 + 5.00000ml of S10615 + 5.00000ml of S10616 + 5.00000ml of S10617 + 5.00000ml of S10618 + 5.00000ml of S10619 + 5.00000ml of S10620 + 5.00000ml of S10621 + 5.00000ml of S10622 + 5.00000ml of S10955 + 5.00000ml of S10956 + 5.00000ml of S10957 + 5.00000ml of S10958 + 5.00000ml of S10959 = Final Quantity: 2000.000 ml

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3382-05 / Sand, Purified (cs/4x2.5kg)	0000243821	12/31/2024	04/30/2020 / RAJESH	04/28/2020 / RAJESH	E2865

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19510-5 / Sodium Hydroxide Pellets 2.5 Kg, Pk of 4	220601-B017657	12/04/2023	08/04/2022 / Rajesh	08/03/2022 / Rajesh	E3382

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1	139404	10/23/2023	10/18/2022 / Rajesh	10/13/2022 / Rajesh	E3412

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	22L0562002	08/02/2023	02/02/2023 / Rajesh	01/24/2023 / Rajesh	E3464

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	23C1362018	12/01/2023	06/01/2023 / Rajesh	05/17/2023 / Rajesh	E3515

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	23E0962014	12/13/2023	06/13/2023 / Rajesh	06/07/2023 / Rajesh	E3518

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	22E1562001	12/16/2023	06/17/2023 / Rajesh	06/15/2023 / Rajesh	E3519

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	23E0962014	12/21/2023	06/21/2023 / Rajesh	06/07/2023 / Rajesh	E3521

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	22L2862006	12/24/2023	06/24/2023 / Rajesh	06/21/2023 / Rajesh	E3523

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	12/18/2025	12/29/2023	06/29/2023 / Rajesh	06/29/2023 / Rajesh	E3534

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	23F1262016	01/12/2024	07/12/2023 / Rajesh	07/12/2023 / Rajesh	E3543

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L)	22D0862014	01/20/2025	08/22/2022 /	04/26/2022 / mohan	M5211

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31615 / SV Mixture, GC/MS Tuning Mixture, CH2Cl2, 1mL,	A0182667	08/15/2023	02/15/2023 / Christian	03/18/2022 / Christian	S10245

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-010074-07 / 3,3'-Dichlorobenzidine Solution, 1,000 mg/L, 1 ml, (Maximum Expiration: 180 days)	406703	12/21/2023	06/21/2023 / Jagrut	04/22/2022 / Christian	S10310

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-010442-07 / Benzaldehyde Solution, 1000 mg/L, 1.3 ml, (Maximum Expiration: 90 Days)	441819	12/21/2023	06/21/2023 / Jagrut	04/22/2022 / Christian	S10315

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	z-110381-01 / 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1ml	478725	12/21/2023	06/21/2023 / Jagrut	04/22/2022 / Christian	S10327

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110817-01 / Custom 8270 Mix, 4-55, 1000 mg/L, 1 ml, (Maximum Expiration: 90 Days)	414125	12/21/2023	06/21/2023 / Jagrut	04/22/2022 / Christian	S10330

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555871 / Custom Standard, 4-nitrophenol Std [CS 5238-4]	A0185300	12/24/2023	06/24/2023 / yogesh	05/18/2022 / Christian	S10393

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555868 / Custom Standard, Benzidine Std [CS 5328-1]	A0184983	09/28/2023	03/28/2023 / Christian	05/18/2022 / Christian	S10405

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0179300	11/15/2023	05/15/2023 / Christian	07/05/2022 / Christian	S10571

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH2Cl2,5ml	A0186198	11/05/2023	05/05/2023 / Christian	08/16/2022 / Christian	S10614

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH2Cl2,5ml	A0186198	12/29/2023	06/29/2023 / yogesh	08/16/2022 / Christian	S10615

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH2Cl2,5ml	A0186198	12/29/2023	06/29/2023 / yogesh	08/16/2022 / Christian	S10616

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH2Cl2,5ml	A0186198	12/29/2023	06/29/2023 / yogesh	08/16/2022 / Christian	S10617

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH2Cl2,5ml	A0186198	12/29/2023	06/29/2023 / yogesh	08/16/2022 / Christian	S10618

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH2Cl2,5ml	A0186198	12/29/2023	06/29/2023 / yogesh	08/16/2022 / Christian	S10619

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH2Cl2,5ml	A0186198	12/29/2023	06/29/2023 / yogesh	08/16/2022 / Christian	S10620

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH2Cl2,5ml	A0186198	12/29/2023	06/29/2023 / yogesh	08/16/2022 / Christian	S10621

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH2Cl2,5ml	A0186198	12/29/2023	06/29/2023 / yogesh	08/16/2022 / Christian	S10622

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110816-01 / Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL, (Maximum Expiration: 180 Days)	414126	12/21/2023	06/21/2023 / Jagrut	09/13/2022 / Christian	S10793

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31087 / Acid Surrogate 10,000ug/ml,methanol,5ml/ampul	A0188108	12/29/2023	06/29/2023 / yogesh	12/28/2022 / Christian	S10952

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31087 / Acid Surrogate 10,000ug/ml,methanol,5ml/ampul	A0188108	12/29/2023	06/29/2023 / yogesh	12/28/2022 / Christian	S10953

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31087 / Acid Surrogate 10,000ug/ml,methanol,5ml/ampul	A0188108	12/29/2023	06/29/2023 / yogesh	12/28/2022 / Christian	S10954

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31087 / Acid Surrogate 10,000ug/ml,methanol,5ml/ampul	A0188108	12/29/2023	06/29/2023 / yogesh	12/28/2022 / Christian	S10955

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31087 / Acid Surrogate 10,000ug/ml,methanol,5ml/ampul	A0188108	12/29/2023	06/29/2023 / yogesh	12/28/2022 / Christian	S10956

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31087 / Acid Surrogate 10,000ug/ml,methanol,5ml/ampul	A0188108	12/29/2023	06/29/2023 / yogesh	12/28/2022 / Christian	S10957

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31087 / Acid Surrogate 10,000ug/ml,methanol,5ml/ampul	A0188108	12/29/2023	06/29/2023 / yogesh	12/28/2022 / Christian	S10958

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31087 / Acid Surrogate 10,000ug/ml,methanol,5ml/ampul	A0188108	12/29/2023	06/29/2023 / yogesh	12/28/2022 / Christian	S10959

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2]	A0185274	11/03/2023	05/03/2023 / Christian	02/06/2023 / Christian	S11037

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2]	A0185274	12/24/2023	06/24/2023 / yogesh	02/06/2023 / Christian	S11039

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2]	A0185274	12/24/2023	06/24/2023 / yogesh	02/06/2023 / Christian	S11040

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2]	A0185274	12/24/2023	06/24/2023 / yogesh	02/06/2023 / Christian	S11042

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0189157	12/24/2023	06/24/2023 / yogesh	02/06/2023 / Christian	S11052

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1]	A0194662	11/22/2023	05/22/2023 / Christian	02/20/2023 / Christian	S11124

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1]	A0194662	12/24/2023	06/24/2023 / yogesh	02/20/2023 / Christian	S11125

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1]	A0194662	12/24/2023	06/24/2023 / yogesh	02/20/2023 / Christian	S11126

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1]	A0194662	12/24/2023	06/24/2023 / yogesh	02/20/2023 / Christian	S11127

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555870 / Custom Standard, 2,4-dinitrophenol Std [CS 5328-3]	A0194698	11/03/2023	05/03/2023 / Christian	02/20/2023 / Christian	S11135

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2]	A0194799	11/03/2023	05/03/2023 / Christian	03/06/2023 / Christian	S11174

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2]	A0194799	12/24/2023	06/24/2023 / yogesh	03/06/2023 / Christian	S11176

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2]	A0194799	12/24/2023	06/24/2023 / yogesh	03/06/2023 / Christian	S11177

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2]	A0194799	12/24/2023	06/24/2023 / yogesh	03/06/2023 / Christian	S11178

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2]	A0194799	12/24/2023	06/24/2023 / yogesh	03/06/2023 / Christian	S11179

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH2Cl2, 1mL	A0191993	11/30/2023	05/30/2023 / Christian	04/07/2023 / Christian	S11198

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH2Cl2, 1mL	A0191993	12/20/2023	06/20/2023 / Jagrut	04/07/2023 / Christian	S11201

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110094-02 / CLP Base/Neutral Surrogate Solution, 5000 mg/L, 1ml	503442	12/21/2023	06/21/2023 / Jagrut	06/07/2023 / Yogesh	S11409

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-112090-04 / CLP Acid Surrogate Solution, 7500 mg/L, 1ml	440246	11/19/2023	05/19/2023 / Christian	02/25/2021 / Christian	S9240

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555869 / Custom Standard, hexachlorocyclopentadiene Std [CS 5328-2]	A0175226	09/28/2023	03/28/2023 / Christian	08/12/2021 / Christian	S9674

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31087 / Acid Surrogate 10,000ug/ml,methanol,5ml/ampul	A0173743	09/27/2023	03/27/2023 / Christian	08/25/2021 / Christian	S9737

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0169482	08/07/2023	02/07/2023 / Jagrut	08/26/2021 / Christian	S9827

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555872 / Custom Standard, pentachlorophenol Std [CS 5328-5]	A0175414	09/28/2023	03/28/2023 / Christian	08/12/2021 / Christian	S9903

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	z-010223-01 / 1,4-Dioxane Solution, 2,000mg/L, 1ml	459696	12/21/2023	06/21/2023 / Jagrut	09/03/2021 / Christian	S9921

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	10/24/2024	10/24/2019 / apatel	10/24/2019 / apatel	W2606

CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received:_____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-010074-07	406703	≤ -10 °C	Methylene Chloride	3/30/2025	3,3'-Dichlorobenzidine Solution, 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
3,3'-dichlorobenzidine	91-94-1	99.5	74.3.26P	989 ± 7.53

Received on
02/07/23
by
CG

S11084
to
S11088

*Not a certified value

Certified By: _____
Jacob Mulloy
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricllly.

5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received:_____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110817-01	414125	≤ -10 °C	Methylene Chloride	6/21/2025	Custom 8270 Mix, 4-55, 1000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
acetophenone	98-86-2	99.2	85.8.1P	998 ± 11.5
benzoic acid	65-85-0	100	123.7.1P	1010 ± 5.88
biphenyl	92-52-4	99.9	366.29.1P	999 ± 5.82
1,2,4,5-tetrachlorobenzene	95-94-3	99.7	53.7.2P	993 ± 5.79

Received on
02/07/23
by
CG
S11089
to
S11093

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By:

Shane Overcash
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received:_____

Certificate of Analysis

Rev 0 **Page 1 of 1**

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110816-01	414126	≤ -10 °C	Methylene Chloride	3/30/2025	Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
atrazine	1912-24-9	99.5	337.7.3P	1000 ± 9.36
benzidine	92-87-5	99	124.18.6.1P	1010 ± 9.42
caprolactam	105-60-2	99.9	271.1.6P	1004 ± 9.4

Received on
09/23/22
by
CG

S10790
to
S10793

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: _____
Jacob Mulloy
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-112090-04	440246	≤ -10 °C	Methylene Chloride	2/16/2026	CLP Acid Surrogate Solution, 7,500 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
2-chlorophenol-d_4	93951-73-6	99.3	248.12.7P	7487 ± 17.2
2-fluorophenol	367-12-4	99.8	10.7.3.3P	7513 ± 17.26
phenol-d6	13127-88-3	99.9	949.120.8P	7481 ± 17.19
2,4,6-tribromophenol	118-79-6	99.8	12.1.6P	7469 ± 17.17

Received on
02/25/21
by
CG

S9236
to
S9240

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: Erica Castiglione

Erica Castiglione
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received:_____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-010442-07	441819	≤ -10 °C	Methylene Chloride	6/1/2024	Benzaldehyde Solution, 1000 mg/L, 1.3 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
benzaldehyde	100-52-7	99.5	442.3.2.1P	1001 ± 12.89

Received on
02/07/23
by CG
S 11094
to
S 11095

*Not a certified value

Katherine Wood

Certified By: _____

Katherine Wood
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricllly.

CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received:_____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-010223 -01	459696	≤ -10 °C	Methylene Chloride	7/13/2024	1,4-Dioxane Solution, 2,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,4-dioxane	123-91-1	100	223.1.3P	1993 ± 21.11

Received
on
04/22/22
by
CG
S10318
to
S10322

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: Joanna Radu

Joanna Radu
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

Received on 02/01/23 by CG S11100

CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received:_____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110381-01	478725	≤ -10 °C	Methylene Chloride	3/29/2027	Method 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
acenaphthene	83-32-9	99.9	13.1.5P	997.8 ± 9.78
acenaphthylene	208-96-8	97.6	14.290.1P	1001 ± 9.81
aniline	62-53-3	99.9	64.7.1P	999.6 ± 9.79
anthracene	120-12-7	99.5	15.7.1P	999.4 ± 9.8
azobenzene	103-33-3	98.1	252.7.2P	1001 ± 9.82
benzo[a]anthracene	56-55-3	98.7	16.7.2.5P	1002 ± 5.75
benzo[b]fluoranthene	205-99-2	98.7	17.1.16P	1000 ± 9.8
benzo[k]fluoranthene	207-08-9	98.9	18.421.4P	1005 ± 11.01
benzo[ghi]perylene	191-24-2	95	19.286.3.1P	999.4 ± 13.96
benzo[a]pyrene	50-32-8	98.3	20.286.1P	999.9 ± 5.74
benzyl alcohol	100-51-6	99.9	65.18.1P	1002 ± 9.83
bis(2-chloroethoxy)methane	111-91-1	98.5	31.3.11P	1000 ± 17.05
bis(2-chloroethyl)ether	111-44-4	99.8	32.7.1P	1000 ± 13.85
bis(2-chloro-1-methylethyl) ether	108-60-1	99.5	34.3.14P	999.7 ± 14.69
bis(2-ethylhexyl)adipate	103-23-1	99.5	874.7.1P	1006 ± 9.86
bis(2-ethylhexyl)phthalate	117-81-7	99.4	33.29.1P	1004 ± 17.12
4-bromophenyl phenyl ether	101-55-3	99.4	35.7.1.1P	1000 ± 13.85
butyl benzyl phthalate	85-68-7	98	36.1.5P	990.8 ± 16.9
carbazole	86-74-8	99	239.7.1P	996.9 ± 9.81

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: _____
Clint Tipton
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

Certificate of Analysis

Catalog No.: Z-110381-01 **Lot No.:** 478725 **Expiration Date:** 3/29/2027

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
4-chloroaniline	106-47-8	100	66.7.1P	1004 ± 9.83
4-chlorophenylphenyl ether	7005-72-3	98	37.158.2P	1000 ± 17.05
4-chloro-3-methylphenol	59-50-7	99.9	102.7.1.1P	999.7 ± 5.74
2-chloronaphthalene	91-58-7	99.8	42.7.5.2P	1010 ± 9.89
2-chlorophenol	95-57-8	99.9	103.1.3.1P	999.7 ± 5.74
chrysene	218-01-9	96	21.286.2P	1001 ± 13.98
dibenz[a,h]anthracene	53-70-3	99.44	22.286.3P	1010 ± 9.85
dibenzofuran	132-64-9	100	67.7.2.1P	1001 ± 9.76
di-n-butyl phthalate	84-74-2	99.8	40.9.2P	999.8 ± 17.05
1,2-dichlorobenzene	95-50-1	99.5	43.1.2P	992.4 ± 9.72
1,3-dichlorobenzene	541-73-1	99.8	44.1.2P	993.8 ± 9.73
1,4-dichlorobenzene	106-46-7	99.9	45.29.2P	991.8 ± 9.71
2,4-dichlorophenol	120-83-2	99.2	104.9.1.1P	1011 ± 5.8
diethyl phthalate	84-66-2	99.8	38.7.1P	999.1 ± 13.84
2,4-dimethylphenol	105-67-9	99.6	105.7.1.1P	999.3 ± 13.84
dimethyl phthalate	131-11-3	99.9	39.9.2P	1001 ± 13.87
1,2-dinitrobenzene	528-29-0	99.86	86.7.3.1P	1001 ± 9.76
1,3-dinitrobenzene	99-65-0	100	313.7.2P	1002 ± 9.83
1,4-dinitrobenzene	100-25-4	99.5	907.1.2P	998.5 ± 13.95
2,4-dinitrophenol	51-28-5	99.9	106.1.6DP	1000 ± 13.85
2,4-dinitrotoluene	121-14-2	100	87.7.3P	1002 ± 13.88
2,6-dinitrotoluene	606-20-2	99.4	88.7.2.1P	1001 ± 13.87
di-n-octyl phthalate	117-84-0	99.1	41.7.5P	989.4 ± 13.7
diphenylamine	122-39-4	99.9	78.29.1P	999.8 ± 17.05
2,3,5,6-tetrachlorophenol	935-95-5	99	1112.18.1P	1012 ± 14.14
fluoranthene	206-44-0	98.6	23.7.3P	1005 ± 5.77
fluorene	86-73-7	98.5	24.29.1P	1002 ± 9.82

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: Clint Tipton
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

Certificate of Analysis

Catalog No.: Z-110381-01 **Lot No.:** 478725 **Expiration Date:** 3/29/2027

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
hexachlorobenzene	118-74-1	99	46.158.4P	994.2 ± 13.88
hexachlorobutadiene	87-68-3	98	47.158.3.1P	988.2 ± 13.8
hexachlorocyclopentadiene	77-47-4	96.5	48.2.1P	994.5 ± 13.88
hexachloroethane	67-72-1	99.9	49.1.4P	993.4 ± 9.73
indeno[1,2,3-cd]pyrene	193-39-5	98	25.286.3P	1002 ± 5.75
isophorone	78-59-1	98.8	90.1.2P	999.9 ± 5.74
2-methyl-4,6-dinitrophenol	534-52-1	100	107.1.4.3DP	1003 ± 5.76
1-methylnaphthalene	90-12-0	98.4	249.7.4P	1001 ± 9.81
2-methylnaphthalene	91-57-6	97.4	68.7.2P	1008 ± 5.79
2-methylphenol	95-48-7	99.6	114.7.3P	1002 ± 13.88
3-methylphenol	108-39-4	99.1	115.7.4P	499.7 ± 6.92
4-methylphenol	106-44-5	99.5	116.7.1P	500.5 ± 6.93
naphthalene	91-20-3	99.8	26.9.2P	998.8 ± 5.73
2-nitroaniline	88-74-4	99.7	69.29.1P	1003 ± 9.82
3-nitroaniline	99-09-2	100	70.7.2P	1000 ± 9.79
4-nitroaniline	100-01-6	99.7	71.29.1P	999.8 ± 9.79
nitrobenzene	98-95-3	100	94.7.1P	1001 ± 13.87
2-nitrophenol	88-75-5	99.1	108.29.1P	1000 ± 13.85
4-nitrophenol	100-02-7	99.9	109.8.1P	1000 ± 5.74
N-nitrosodimethylamine	62-75-9	99.5	57.3.19P	999.4 ± 14.68
N-nitrosodi-n-propylamine	621-64-7	99.8	59.286.1P	1001 ± 17.07
pentachlorophenol	87-86-5	99	110.1.7P	1000 ± 13.85
phenanthrene	85-01-8	98.9	27.1.3P	1002 ± 13.99
phenol	108-95-2	100	112.7.1P	1011 ± 13.97
pyrene	129-00-0	98.5	28.9.1.1P	1011 ± 5.8
pyridine	110-86-1	100	101.24.1P	999.6 ± 9.74
2,3,4,6-Tetrachlorophenol	58-90-2	91.8	120.421.1P	999.7 ± 13.96

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: Clint Tipton
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

Certificate of Analysis

Catalog No.: Z-110381-01 **Lot No.:** 478725 **Expiration Date:** 3/29/2027

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,2,4-trichlorobenzene	120-82-1	99.6	54.29.1P	999.2 ± 9.79
2,4,5-trichlorophenol	95-95-4	96.5	121.7.1.1P	1010 ± 13.99
2,4,6-trichlorophenol	88-06-2	99.6	113.7.1P	1001 ± 13.87

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: Clint Tipton
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received on 08/26/21 by CG S9819 to S9828

Catalog No. : 31853 **Lot No.:** A0169482

Description : 1,4-dioxane

1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 28, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	1,4-Dioxane **CAS #** 123-91-1 (Lot SHBL6661) **Purity** 99%	2,001.0 µg/mL	+/- 11.7430 µg/mL +/- 42.8714 µg/mL +/- 44.1160 µg/mL		Gravimetric Unstressed Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

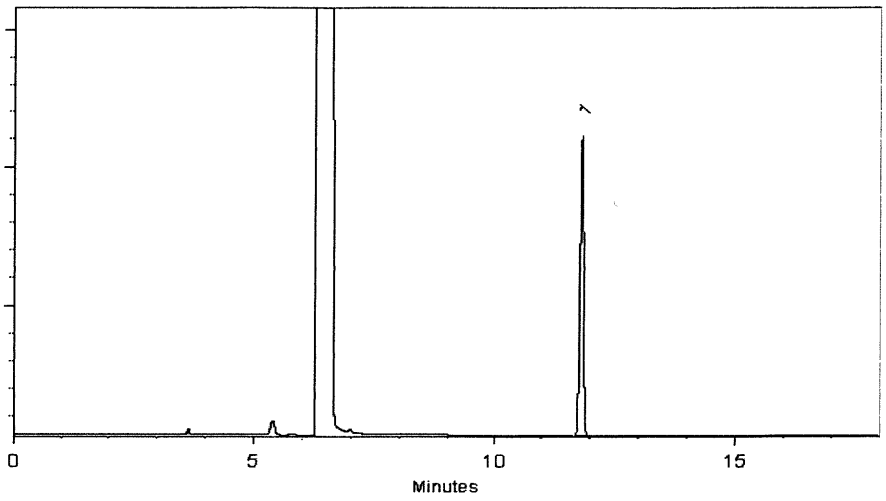
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler - Operations Tech I

Date Mixed: 25-Feb-2021 **Balance:** B442140311

Marline Cowan - Operations Tech I

Date Passed: 01-Mar-2021

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received on 08/25/21 by CG

S9709 to S9738

Catalog No. : 31087 **Lot No.:** A0173743

Description : Acid Surrogate Mix (4/89 SOW)

Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : June 30, 2029 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)		Expanded Uncertainty (95% C.L.; K=2)		
1	2-Fluorophenol		10,013.5	µg/mL	+/- 58.2194	µg/mL	Gravimetric
	CAS # 367-12-4	(Lot STBJ2508)			+/- 292.2275	µg/mL	Unstressed
	Purity 99%				+/- 354.6068	µg/mL	Stressed
2	Phenol-d6		10,050.1	µg/mL	+/- 58.4323	µg/mL	Gravimetric
	CAS # 13127-88-3	(Lot PR-31262)			+/- 293.2963	µg/mL	Unstressed
	Purity 99%				+/- 355.9038	µg/mL	Stressed
3	2,4,6-Tribromophenol		10,044.9	µg/mL	+/- 58.4018	µg/mL	Gravimetric
	CAS # 118-79-6	(Lot MKCJ7664)			+/- 293.1431	µg/mL	Unstressed
	Purity 99%				+/- 355.7179	µg/mL	Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

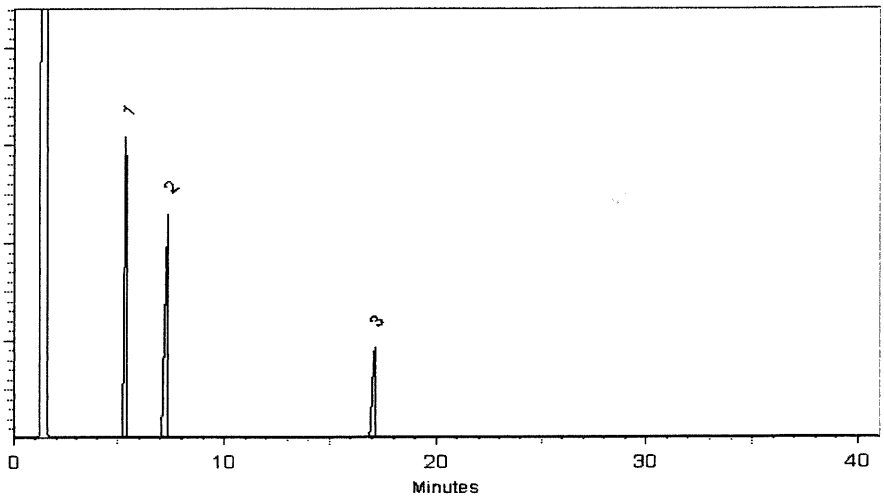
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Aurelia Confer - Operations Tech I

Date Mixed: 23-Jun-2021 **Balance:** B442140311

Marlina Cowan - Operations Tech I

Date Passed: 25-Jun-2021

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Gravimetric Certificate

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received on 08/12/21 by CG S 9671 to S 9675

Catalog No. : 555869 **Lot No.:** A0175226

Description : Custom Hexachlorocyclopentadiene Standard

Custom Hexachlorocyclopentadiene Standard 25,000µg/mL, Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : August 31, 2024 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Hexachlorocyclopentadiene	25,032.0 µg/mL	+/- 231.6508 µg/mL	Gravimetric
	CAS # 77-47-4 (Lot 0012019)		+/- 1,251.3257 µg/mL	Unstressed
	Purity 99%		+/- 1,281.8032 µg/mL	Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Lane Kibe - Mix Technician **Date Mixed:** 09-Aug-2021 **Balance:** B345965662

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Gravimetric Certificate

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received on 08/12/21 by CG S9899 to S9903

Catalog No. : 555872 **Lot No.:** A0175414

Description : Custom Pentachlorophenol Standard

Custom Pentachlorophenol Standard 25,000µg/mL, Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : August 31, 2024 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Pentachlorophenol **CAS #** 87-86-5 **Purity** 99% (Lot 210706RSR)	25,072.0 µg/mL	+/- 232.0210 µg/mL +/- 753.6229 µg/mL +/- 906.0356 µg/mL		Gravimetric Unstressed Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Matt Fragassi - Mix Technician

Date Mixed: 16-Aug-2021 **Balance:** 1128342314

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received on 07/05/22 by CG S10542 to S10571

Catalog No. : 31853 **Lot No.:** A0179300

Description : 1,4-dioxane

1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	1,4-Dioxane	2,004.0 µg/mL	+/- 11.7606 µg/mL	Gravimetric
	CAS # 123-91-1 (Lot SHBM9675)		+/- 42.9357 µg/mL	Unstressed
	Purity 99%		+/- 44.1822 µg/mL	Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

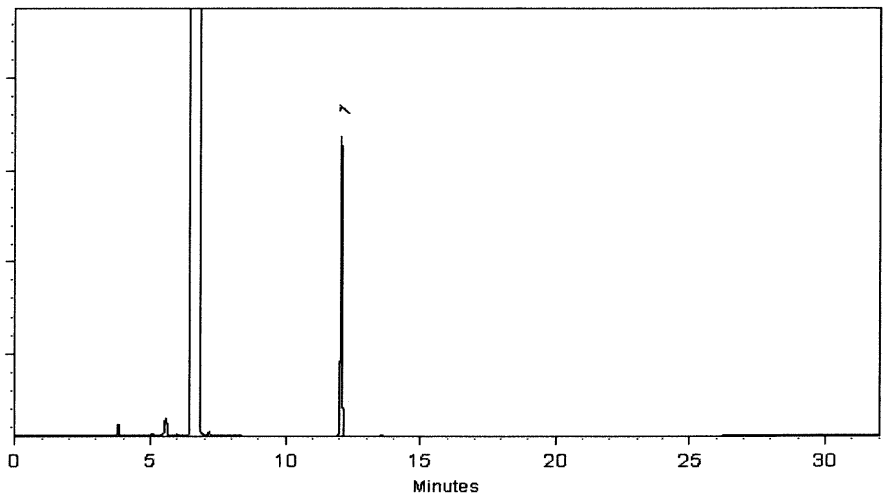
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Ashley Frantz - Quoting Technician

Date Mixed: 08-Dec-2021 **Balance:** B442140311

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 10-Dec-2021

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received on 03/18/22 by CG S10242 to S10247

Catalog No. : 31615 **Lot No.:** A0182667

Description : GC/MS Tuning Mixture

GC/MS Tuning Mixture 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2025 **Storage:** 10°C or colder

Handling: Contains carcinogen/reproductive toxin. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Pentachlorophenol **CAS #** 87-86-5 (Lot 211229RSR) **Purity** 99%	1,003.6 µg/mL	+/- 5.8897 µg/mL +/- 45.7132 µg/mL +/- 66.0037 µg/mL	Gravimetric Unstressed Stressed
2	DFTPP (Decafluorotriphenylphosphine) **CAS #** 5074-71-5 (Lot Q117-147) **Purity** 95%	1,006.6 µg/mL	+/- 5.9074 µg/mL +/- 45.8508 µg/mL +/- 66.2023 µg/mL	Gravimetric Unstressed Stressed
3	Benzidine **CAS #** 92-87-5 (Lot 211228JLM) **Purity** 99%	1,008.4 µg/mL	+/- 5.9179 µg/mL +/- 45.9318 µg/mL +/- 66.3193 µg/mL	Gravimetric Unstressed Stressed
4	4,4'-DDT **CAS #** 50-29-3 (Lot 210916JLM) **Purity** 99%	1,007.6 µg/mL	+/- 5.9132 µg/mL +/- 45.8954 µg/mL +/- 66.2667 µg/mL	Gravimetric Unstressed Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

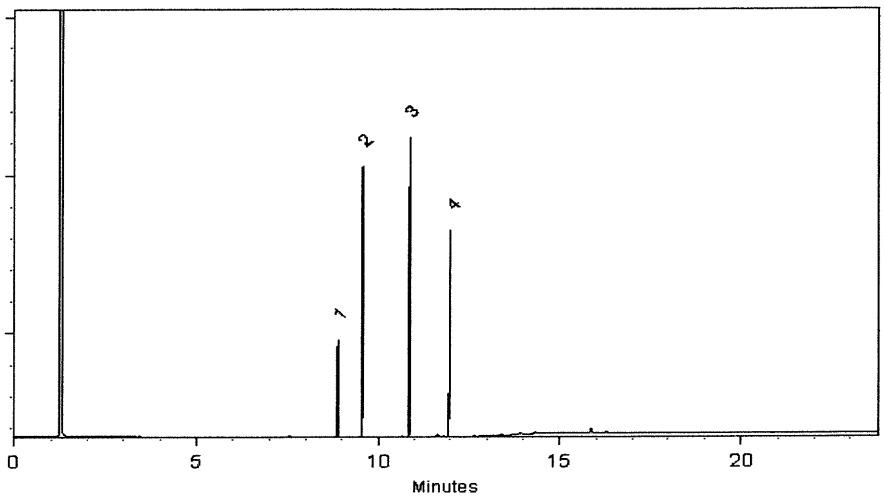
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Morgan Craighead - Mix Technician

Date Mixed: 08-Mar-2022 **Balance:** B345965662

Merlina Cowan - Operations Tech I

Date Passed: 10-Mar-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Gravimetric Certificate

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received on 05/18/22 by CG
S10403 to S10407

Catalog No. : 555868 **Lot No.:** A0184983

Description : Custom Benzidine Standard

Custom Benzidine Standard 25,000µg/mL, Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2025 **Storage:** 10°C or colder

Handling: Contains carcinogen/reproductive toxin. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Benzidine	25,024.0 µg/mL	+/- 231.5768	µg/mL	Gravimetric
	CAS # 92-87-5 (Lot 211228JLM)		+/- 349.2045	µg/mL	Unstressed
	Purity 99%		+/- 509.0253	µg/mL	Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Cathleen Soltis
Cathleen Soltis - Mix Technician

Date Mixed: 05-May-2022 **Balance:** B442140311

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received by CG on 02/06/23

S 11016 to S 11045

Catalog No. : 31850 **Lot No.:** A0185274

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2023 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Pyridine **CAS #** 110-86-1 (Lot SHBL0433) **Purity** 99%	1,001.1 µg/mL	+/- 5.8205 µg/mL +/- 30.2818 µg/mL +/- 30.2818 µg/mL	Gravimetric Unstressed Stressed
2	N-Nitrosodimethylamine **CAS #** 62-75-9 (Lot 220520JLM) **Purity** 99%	1,001.1 µg/mL	+/- 5.8202 µg/mL +/- 30.2801 µg/mL +/- 30.2801 µg/mL	Gravimetric Unstressed Stressed
3	Phenol **CAS #** 108-95-2 (Lot MKCK1120) **Purity** 99%	1,000.8 µg/mL	+/- 5.8189 µg/mL +/- 30.2734 µg/mL +/- 30.2734 µg/mL	Gravimetric Unstressed Stressed
4	Aniline **CAS #** 62-53-3 (Lot X22F726) **Purity** 99%	1,001.2 µg/mL	+/- 5.8212 µg/mL +/- 30.2852 µg/mL +/- 30.2852 µg/mL	Gravimetric Unstressed Stressed
5	Bis(2-chloroethyl)ether **CAS #** 111-44-4 (Lot SHBL6942) **Purity** 99%	1,000.8 µg/mL	+/- 5.8186 µg/mL +/- 30.2717 µg/mL +/- 30.2717 µg/mL	Gravimetric Unstressed Stressed
6	2-Chlorophenol **CAS #** 95-57-8 (Lot STBH7290) **Purity** 99%	1,002.3 µg/mL	+/- 5.8273 µg/mL +/- 30.3171 µg/mL +/- 30.3171 µg/mL	Gravimetric Unstressed Stressed
7	1,3-Dichlorobenzene **CAS #** 541-73-1 (Lot BCBZ7498) **Purity** 99%	1,001.2 µg/mL	+/- 5.8209 µg/mL +/- 30.2835 µg/mL +/- 30.2835 µg/mL	Gravimetric Unstressed Stressed

8	1,4-Dichlorobenzene **CAS #** 106-46-7 **Purity** 99%	(Lot MKBS4401V)	1,001.0	µg/mL	+/- 5.8199 +/- 30.2784 +/- 30.2784	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
9	Benzyl alcohol **CAS #** 100-51-6 **Purity** 99%	(Lot SHBK5943)	1,000.6	µg/mL	+/- 5.8176 +/- 30.2667 +/- 30.2667	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
10	1,2-Dichlorobenzene **CAS #** 95-50-1 **Purity** 99%	(Lot SHBN3835)	1,002.1	µg/mL	+/- 5.8260 +/- 30.3104 +/- 30.3104	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
11	2-Methylphenol (o-cresol) **CAS #** 95-48-7 **Purity** 99%	(Lot SHBM5003)	1,000.4	µg/mL	+/- 5.8167 +/- 30.2616 +/- 30.2616	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
12	2,2'-oxybis(1-chloropropane) **CAS #** 108-60-1 **Purity** 99%	(Lot 12549200)	1,000.8	µg/mL	+/- 5.8186 +/- 30.2717 +/- 30.2717	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
13	3-Methylphenol (m-cresol) **CAS #** 108-39-4 **Purity** 99%	(Lot STBJ0710)	500.4	µg/mL	+/- 2.9164 +/- 15.1388 +/- 15.1388	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
14	4-Methylphenol (p-cresol) **CAS #** 106-44-5 **Purity** 99%	(Lot SHBN1151)	500.1	µg/mL	+/- 2.9144 +/- 15.1288 +/- 15.1288	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
15	N-Nitroso-di-n-propylamine **CAS #** 621-64-7 **Purity** 99%	(Lot 2D5VJ)	1,000.2	µg/mL	+/- 5.8151 +/- 30.2532 +/- 30.2532	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
16	Hexachloroethane **CAS #** 67-72-1 **Purity** 99%	(Lot QTORH)	1,001.7	µg/mL	+/- 5.8238 +/- 30.2986 +/- 30.2986	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
17	Nitrobenzene **CAS #** 98-95-3 **Purity** 99%	(Lot 10224044)	1,000.3	µg/mL	+/- 5.8157 +/- 30.2566 +/- 30.2566	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
18	Isophorone **CAS #** 78-59-1 **Purity** 99%	(Lot MKCC9506)	1,002.2	µg/mL	+/- 5.8267 +/- 30.3137 +/- 30.3137	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
19	2-Nitrophenol **CAS #** 88-75-5 **Purity** 99%	(Lot BCCB2407)	1,000.8	µg/mL	+/- 5.8189 +/- 30.2734 +/- 30.2734	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
20	2,4-Dimethylphenol **CAS #** 105-67-9 **Purity** 99%	(Lot XW5GK)	1,002.6	µg/mL	+/- 5.8293 +/- 30.3272 +/- 30.3272	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
21	Bis(2-chloroethoxy)methane **CAS #** 111-91-1 **Purity** 99%	(Lot 12665000)	1,000.9	µg/mL	+/- 5.8193 +/- 30.2751 +/- 30.2751	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
22	2,4-Dichlorophenol **CAS #** 120-83-2 **Purity** 99%	(Lot BCBZ6787)	1,001.5	µg/mL	+/- 5.8228 +/- 30.2936 +/- 30.2936	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
23	1,2,4-Trichlorobenzene **CAS #** 120-82-1 **Purity** 99%	(Lot SHBM0526)	1,000.8	µg/mL	+/- 5.8189 +/- 30.2734 +/- 30.2734	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

24	Naphthalene **CAS #** 91-20-3 **Purity** 99%	(Lot MKCH0219)	1,001.3 µg/mL	+/- 5.8215 +/- 30.2868 +/- 30.2868	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
25	4-Chloroaniline **CAS #** 106-47-8 **Purity** 99%	(Lot BCBJ1580V)	1,000.1 µg/mL	+/- 5.8144 +/- 30.2499 +/- 30.2499	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
26	Hexachlorobutadiene **CAS #** 87-68-3 **Purity** 99%	(Lot X05J)	1,002.2 µg/mL	+/- 5.8270 +/- 30.3154 +/- 30.3154	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
27	4-Chloro-3-methylphenol **CAS #** 59-50-7 **Purity** 99%	(Lot BCCD4461)	1,001.3 µg/mL	+/- 5.8215 +/- 30.2868 +/- 30.2868	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
28	2-Methylnaphthalene **CAS #** 91-57-6 **Purity** 96%	(Lot STBK0259)	1,002.2 µg/mL	+/- 5.8268 +/- 30.3143 +/- 30.3143	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
29	1-Methylnaphthalene **CAS #** 90-12-0 **Purity** 99%	(Lot 5234.00-3)	1,000.0 µg/mL	+/- 5.8141 +/- 30.2482 +/- 30.2482	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
30	Hexachlorocyclopentadiene **CAS #** 77-47-4 **Purity** 99%	(Lot 0012020)	1,000.7 µg/mL	+/- 5.8180 +/- 30.2684 +/- 30.2684	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
31	2,4,6-Trichlorophenol **CAS #** 88-06-2 **Purity** 99%	(Lot STBJ5914)	1,002.9 µg/mL	+/- 5.8309 +/- 30.3356 +/- 30.3356	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
32	2,4,5-Trichlorophenol **CAS #** 95-95-4 **Purity** 98%	(Lot FHN01)	1,001.9 µg/mL	+/- 5.8254 +/- 30.3069 +/- 30.3069	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
33	2-Chloronaphthalene **CAS #** 91-58-7 **Purity** 99%	(Lot TWYRD)	1,000.2 µg/mL	+/- 5.8154 +/- 30.2549 +/- 30.2549	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
34	2-Nitroaniline **CAS #** 88-74-4 **Purity** 99%	(Lot MKCJ8895)	1,001.6 µg/mL	+/- 5.8235 +/- 30.2969 +/- 30.2969	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
35	1,4-Dinitrobenzene **CAS #** 100-25-4 **Purity** 99%	(Lot STBF8844V)	1,002.2 µg/mL	+/- 5.8267 +/- 30.3137 +/- 30.3137	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
36	Acenaphthylene **CAS #** 208-96-8 **Purity** 98%	(Lot L20W)	1,000.0 µg/mL	+/- 5.8143 +/- 30.2493 +/- 30.2493	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
37	1,3-Dinitrobenzene **CAS #** 99-65-0 **Purity** 99%	(Lot 1-DXX-24-1)	1,002.7 µg/mL	+/- 5.8296 +/- 30.3289 +/- 30.3289	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
38	Dimethylphthalate **CAS #** 131-11-3 **Purity** 99%	(Lot 10117699)	1,000.2 µg/mL	+/- 5.8154 +/- 30.2549 +/- 30.2549	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
39	2,6-Dinitrotoluene **CAS #** 606-20-2 **Purity** 99%	(Lot BCBB8606)	1,001.3 µg/mL	+/- 5.8218 +/- 30.2885 +/- 30.2885	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

40	1,2-Dinitrobenzene **CAS #** 528-29-0 **Purity** 99%	(Lot MKCH6067)	1,000.2	µg/mL	+/- 5.8151 +/- 30.2532 +/- 30.2532	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
41	Acenaphthene **CAS #** 83-32-9 **Purity** 99%	(Lot MKCQ4733)	1,001.9	µg/mL	+/- 5.8251 +/- 30.3053 +/- 30.3053	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
42	3-Nitroaniline **CAS #** 99-09-2 **Purity** 99%	(Lot MKCH5457)	1,000.7	µg/mL	+/- 5.8183 +/- 30.2700 +/- 30.2700	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
43	2,4-Dinitrophenol **CAS #** 51-28-5 **Purity** 99%	(Lot STBH7564)	1,001.3	µg/mL	+/- 5.8218 +/- 30.2885 +/- 30.2885	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
44	Dibenzofuran **CAS #** 132-64-9 **Purity** 99%	(Lot MKCN1772)	1,001.7	µg/mL	+/- 5.8241 +/- 30.3003 +/- 30.3003	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
45	2,4-Dinitrotoluene **CAS #** 121-14-2 **Purity** 99%	(Lot MKAA0690V)	1,001.3	µg/mL	+/- 5.8215 +/- 30.2868 +/- 30.2868	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
46	4-Nitrophenol **CAS #** 100-02-7 **Purity** 99%	(Lot MKCF6111)	1,001.3	µg/mL	+/- 5.8215 +/- 30.2868 +/- 30.2868	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
47	2,3,4,6-Tetrachlorophenol **CAS #** 58-90-2 **Purity** 99%	(Lot PR-30126)	1,001.6	µg/mL	+/- 5.8235 +/- 30.2969 +/- 30.2969	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
48	2,3,5,6-Tetrachlorophenol **CAS #** 935-95-5 **Purity** 99%	(Lot 012016)	1,000.3	µg/mL	+/- 5.8157 +/- 30.2566 +/- 30.2566	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
49	Fluorene **CAS #** 86-73-7 **Purity** 99%	(Lot 10236068)	1,002.0	µg/mL	+/- 5.8257 +/- 30.3087 +/- 30.3087	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
50	4-Chlorophenyl phenyl ether **CAS #** 7005-72-3 **Purity** 99%	(Lot MKCQ0984)	1,001.7	µg/mL	+/- 5.8238 +/- 30.2986 +/- 30.2986	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
51	Diethylphthalate **CAS #** 84-66-2 **Purity** 99%	(Lot BCCD3396)	1,000.6	µg/mL	+/- 5.8176 +/- 30.2667 +/- 30.2667	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
52	4-Nitroaniline **CAS #** 100-01-6 **Purity** 99%	(Lot RP220302)	1,001.8	µg/mL	+/- 5.8247 +/- 30.3036 +/- 30.3036	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol) **CAS #** 534-52-1 **Purity** 99%	(Lot 220318SAM)	1,000.6	µg/mL	+/- 5.8176 +/- 30.2667 +/- 30.2667	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
54	Diphenylamine **CAS #** 122-39-4 **Purity** 99%	(Lot MKCH1042)	1,002.4	µg/mL	+/- 5.8280 +/- 30.3205 +/- 30.3205	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
55	Azobenzene **CAS #** 103-33-3 **Purity** 99%	(Lot BCCC9136)	1,000.4	µg/mL	+/- 5.8167 +/- 30.2616 +/- 30.2616	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

56	4-Bromophenyl phenyl ether **CAS #** 101-55-3 **Purity** 99%	(Lot STBH6361)	1,001.7	µg/mL	+/- 5.8241 +/- 30.3003 +/- 30.3003	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
57	Hexachlorobenzene **CAS #** 118-74-1 **Purity** 99%	(Lot 13027400)	1,000.8	µg/mL	+/- 5.8186 +/- 30.2717 +/- 30.2717	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
58	Pentachlorophenol **CAS #** 87-86-5 **Purity** 99%	(Lot 211229RSR)	1,000.4	µg/mL	+/- 5.8167 +/- 30.2616 +/- 30.2616	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
59	Phenanthrene **CAS #** 85-01-8 **Purity** 99%	(Lot MKCL7390)	1,000.8	µg/mL	+/- 5.8189 +/- 30.2734 +/- 30.2734	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
60	Anthracene **CAS #** 120-12-7 **Purity** 99%	(Lot MKCN0922)	1,000.7	µg/mL	+/- 5.8180 +/- 30.2684 +/- 30.2684	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
61	Carbazole **CAS #** 86-74-8 **Purity** 99%	(Lot 12549400)	1,002.1	µg/mL	+/- 5.8260 +/- 30.3104 +/- 30.3104	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
62	Di-n-butylphthalate **CAS #** 84-74-2 **Purity** 99%	(Lot MKCL9573)	1,000.4	µg/mL	+/- 5.8163 +/- 30.2600 +/- 30.2600	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
63	Fluoranthene **CAS #** 206-44-0 **Purity** 99%	(Lot MKCQ4728)	1,000.6	µg/mL	+/- 5.8173 +/- 30.2650 +/- 30.2650	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
64	Pyrene **CAS #** 129-00-0 **Purity** 99%	(Lot BCCG2258)	1,000.8	µg/mL	+/- 5.8186 +/- 30.2717 +/- 30.2717	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
65	Benzyl butyl phthalate **CAS #** 85-68-7 **Purity** 99%	(Lot MKCN9008)	1,001.0	µg/mL	+/- 5.8199 +/- 30.2784 +/- 30.2784	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
66	Bis(2-ethylhexyl)adipate **CAS #** 103-23-1 **Purity** 99%	(Lot MKCM1988)	1,000.2	µg/mL	+/- 5.8151 +/- 30.2532 +/- 30.2532	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
67	Benz(a)anthracene **CAS #** 56-55-3 **Purity** 96%	(Lot RP220209)	1,000.3	µg/mL	+/- 5.8159 +/- 30.2579 +/- 30.2579	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
68	Chrysene **CAS #** 218-01-9 **Purity** 99%	(Lot 468677L08C)	1,000.4	µg/mL	+/- 5.8163 +/- 30.2600 +/- 30.2600	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
69	Bis(2-ethylhexyl)phthalate **CAS #** 117-81-7 **Purity** 99%	(Lot MKCQ3468)	1,000.4	µg/mL	+/- 5.8163 +/- 30.2600 +/- 30.2600	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
70	Di-n-octyl phthalate **CAS #** 117-84-0 **Purity** 99%	(Lot 12382500)	1,001.9	µg/mL	+/- 5.8251 +/- 30.3053 +/- 30.3053	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
71	Benzo(b)fluoranthene **CAS #** 205-99-2 **Purity** 99%	(Lot 012012B)	1,001.1	µg/mL	+/- 5.8202 +/- 30.2801 +/- 30.2801	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

72	Benzo(k)fluoranthene **CAS #** 207-08-9 **Purity** 99%	(Lot 012019K)	1,000.8	µg/mL	+/- 5.8186 +/- 30.2717 +/- 30.2717	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
73	Benzo(a)pyrene **CAS #** 50-32-8 **Purity** 99%	(Lot Z8BKF)	1,000.9	µg/mL	+/- 5.8196 +/- 30.2768 +/- 30.2768	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
74	Indeno(1,2,3-cd)pyrene **CAS #** 193-39-5 **Purity** 99%	(Lot 12-JKL-118-9)	1,001.2	µg/mL	+/- 5.8212 +/- 30.2852 +/- 30.2852	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
75	Dibenz(a,h)anthracene **CAS #** 53-70-3 **Purity** 99%	(Lot ER032211-01)	1,000.3	µg/mL	+/- 5.8160 +/- 30.2583 +/- 30.2583	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
76	Benzo(g,h,i)perylene **CAS #** 191-24-2 **Purity** 98%	(Lot AVUAD)	1,001.7	µg/mL	+/- 5.8238 +/- 30.2987 +/- 30.2987	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

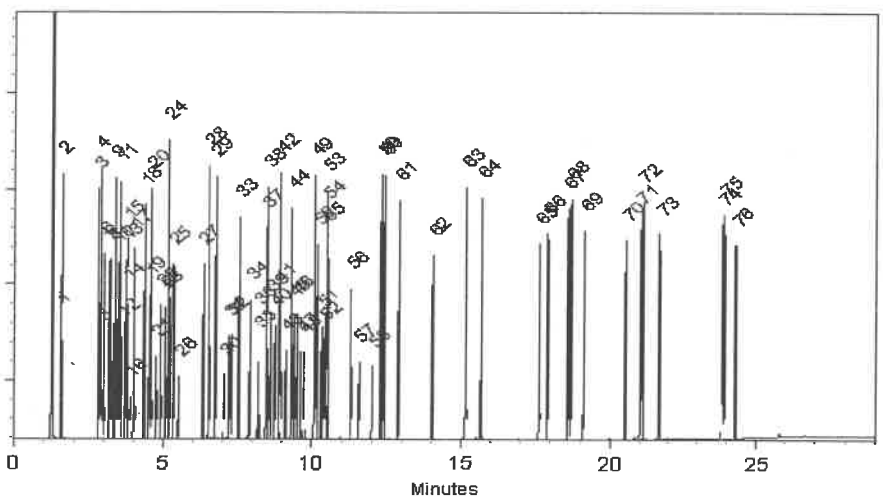
Carrier Gas:
hydrogen-constant flow 1.8 mL/min.

Temp. Program:
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

Inj. Temp:
250°C

Det. Temp:
340°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Cathleen Soltis - Mix Technician

Date Mixed: 13-May-2022 **Balance:** B442140311

Christie Mills - Operations Technician II

Date Passed: 02-Jun-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received by CG on 02/06/23
S 11016 to S 11045

Catalog No. : 31850 **Lot No.:** A0185274

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2023 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Pyridine **CAS #** 110-86-1 (Lot SHBL0433) **Purity** 99%	1,001.1 µg/mL	+/- 5.8205 µg/mL +/- 30.2818 µg/mL +/- 30.2818 µg/mL	Gravimetric Unstressed Stressed
2	N-Nitrosodimethylamine **CAS #** 62-75-9 (Lot 220520JLM) **Purity** 99%	1,001.1 µg/mL	+/- 5.8202 µg/mL +/- 30.2801 µg/mL +/- 30.2801 µg/mL	Gravimetric Unstressed Stressed
3	Phenol **CAS #** 108-95-2 (Lot MKCK1120) **Purity** 99%	1,000.8 µg/mL	+/- 5.8189 µg/mL +/- 30.2734 µg/mL +/- 30.2734 µg/mL	Gravimetric Unstressed Stressed
4	Aniline **CAS #** 62-53-3 (Lot X22F726) **Purity** 99%	1,001.2 µg/mL	+/- 5.8212 µg/mL +/- 30.2852 µg/mL +/- 30.2852 µg/mL	Gravimetric Unstressed Stressed
5	Bis(2-chloroethyl)ether **CAS #** 111-44-4 (Lot SHBL6942) **Purity** 99%	1,000.8 µg/mL	+/- 5.8186 µg/mL +/- 30.2717 µg/mL +/- 30.2717 µg/mL	Gravimetric Unstressed Stressed
6	2-Chlorophenol **CAS #** 95-57-8 (Lot STBH7290) **Purity** 99%	1,002.3 µg/mL	+/- 5.8273 µg/mL +/- 30.3171 µg/mL +/- 30.3171 µg/mL	Gravimetric Unstressed Stressed
7	1,3-Dichlorobenzene **CAS #** 541-73-1 (Lot BCBZ7498) **Purity** 99%	1,001.2 µg/mL	+/- 5.8209 µg/mL +/- 30.2835 µg/mL +/- 30.2835 µg/mL	Gravimetric Unstressed Stressed

8	1,4-Dichlorobenzene **CAS #** 106-46-7 **Purity** 99%	(Lot MKBS4401V)	1,001.0	µg/mL	+/- 5.8199 +/- 30.2784 +/- 30.2784	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
9	Benzyl alcohol **CAS #** 100-51-6 **Purity** 99%	(Lot SHBK5943)	1,000.6	µg/mL	+/- 5.8176 +/- 30.2667 +/- 30.2667	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
10	1,2-Dichlorobenzene **CAS #** 95-50-1 **Purity** 99%	(Lot SHBN3835)	1,002.1	µg/mL	+/- 5.8260 +/- 30.3104 +/- 30.3104	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
11	2-Methylphenol (o-cresol) **CAS #** 95-48-7 **Purity** 99%	(Lot SHBM5003)	1,000.4	µg/mL	+/- 5.8167 +/- 30.2616 +/- 30.2616	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
12	2,2'-oxybis(1-chloropropane) **CAS #** 108-60-1 **Purity** 99%	(Lot 12549200)	1,000.8	µg/mL	+/- 5.8186 +/- 30.2717 +/- 30.2717	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
13	3-Methylphenol (m-cresol) **CAS #** 108-39-4 **Purity** 99%	(Lot STBJ0710)	500.4	µg/mL	+/- 2.9164 +/- 15.1388 +/- 15.1388	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
14	4-Methylphenol (p-cresol) **CAS #** 106-44-5 **Purity** 99%	(Lot SHBN1151)	500.1	µg/mL	+/- 2.9144 +/- 15.1288 +/- 15.1288	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
15	N-Nitroso-di-n-propylamine **CAS #** 621-64-7 **Purity** 99%	(Lot 2D5VJ)	1,000.2	µg/mL	+/- 5.8151 +/- 30.2532 +/- 30.2532	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
16	Hexachloroethane **CAS #** 67-72-1 **Purity** 99%	(Lot QTORH)	1,001.7	µg/mL	+/- 5.8238 +/- 30.2986 +/- 30.2986	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
17	Nitrobenzene **CAS #** 98-95-3 **Purity** 99%	(Lot 10224044)	1,000.3	µg/mL	+/- 5.8157 +/- 30.2566 +/- 30.2566	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
18	Isophorone **CAS #** 78-59-1 **Purity** 99%	(Lot MKCC9506)	1,002.2	µg/mL	+/- 5.8267 +/- 30.3137 +/- 30.3137	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
19	2-Nitrophenol **CAS #** 88-75-5 **Purity** 99%	(Lot BCCB2407)	1,000.8	µg/mL	+/- 5.8189 +/- 30.2734 +/- 30.2734	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
20	2,4-Dimethylphenol **CAS #** 105-67-9 **Purity** 99%	(Lot XW5GK)	1,002.6	µg/mL	+/- 5.8293 +/- 30.3272 +/- 30.3272	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
21	Bis(2-chloroethoxy)methane **CAS #** 111-91-1 **Purity** 99%	(Lot 12665000)	1,000.9	µg/mL	+/- 5.8193 +/- 30.2751 +/- 30.2751	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
22	2,4-Dichlorophenol **CAS #** 120-83-2 **Purity** 99%	(Lot BCBZ6787)	1,001.5	µg/mL	+/- 5.8228 +/- 30.2936 +/- 30.2936	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
23	1,2,4-Trichlorobenzene **CAS #** 120-82-1 **Purity** 99%	(Lot SHBM0526)	1,000.8	µg/mL	+/- 5.8189 +/- 30.2734 +/- 30.2734	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

24	Naphthalene **CAS #** 91-20-3 **Purity** 99%	(Lot MKCH0219)	1,001.3 µg/mL	+/- 5.8215 +/- 30.2868 +/- 30.2868	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
25	4-Chloroaniline **CAS #** 106-47-8 **Purity** 99%	(Lot BCBJ1580V)	1,000.1 µg/mL	+/- 5.8144 +/- 30.2499 +/- 30.2499	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
26	Hexachlorobutadiene **CAS #** 87-68-3 **Purity** 99%	(Lot X05J)	1,002.2 µg/mL	+/- 5.8270 +/- 30.3154 +/- 30.3154	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
27	4-Chloro-3-methylphenol **CAS #** 59-50-7 **Purity** 99%	(Lot BCCD4461)	1,001.3 µg/mL	+/- 5.8215 +/- 30.2868 +/- 30.2868	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
28	2-Methylnaphthalene **CAS #** 91-57-6 **Purity** 96%	(Lot STBK0259)	1,002.2 µg/mL	+/- 5.8268 +/- 30.3143 +/- 30.3143	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
29	1-Methylnaphthalene **CAS #** 90-12-0 **Purity** 99%	(Lot 5234.00-3)	1,000.0 µg/mL	+/- 5.8141 +/- 30.2482 +/- 30.2482	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
30	Hexachlorocyclopentadiene **CAS #** 77-47-4 **Purity** 99%	(Lot 0012020)	1,000.7 µg/mL	+/- 5.8180 +/- 30.2684 +/- 30.2684	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
31	2,4,6-Trichlorophenol **CAS #** 88-06-2 **Purity** 99%	(Lot STBJ5914)	1,002.9 µg/mL	+/- 5.8309 +/- 30.3356 +/- 30.3356	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
32	2,4,5-Trichlorophenol **CAS #** 95-95-4 **Purity** 98%	(Lot FHN01)	1,001.9 µg/mL	+/- 5.8254 +/- 30.3069 +/- 30.3069	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
33	2-Chloronaphthalene **CAS #** 91-58-7 **Purity** 99%	(Lot TWYRD)	1,000.2 µg/mL	+/- 5.8154 +/- 30.2549 +/- 30.2549	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
34	2-Nitroaniline **CAS #** 88-74-4 **Purity** 99%	(Lot MKCJ8895)	1,001.6 µg/mL	+/- 5.8235 +/- 30.2969 +/- 30.2969	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
35	1,4-Dinitrobenzene **CAS #** 100-25-4 **Purity** 99%	(Lot STBF8844V)	1,002.2 µg/mL	+/- 5.8267 +/- 30.3137 +/- 30.3137	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
36	Acenaphthylene **CAS #** 208-96-8 **Purity** 98%	(Lot L20W)	1,000.0 µg/mL	+/- 5.8143 +/- 30.2493 +/- 30.2493	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
37	1,3-Dinitrobenzene **CAS #** 99-65-0 **Purity** 99%	(Lot 1-DXX-24-1)	1,002.7 µg/mL	+/- 5.8296 +/- 30.3289 +/- 30.3289	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
38	Dimethylphthalate **CAS #** 131-11-3 **Purity** 99%	(Lot 10117699)	1,000.2 µg/mL	+/- 5.8154 +/- 30.2549 +/- 30.2549	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
39	2,6-Dinitrotoluene **CAS #** 606-20-2 **Purity** 99%	(Lot BCBB8606)	1,001.3 µg/mL	+/- 5.8218 +/- 30.2885 +/- 30.2885	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

40	1,2-Dinitrobenzene **CAS #** 528-29-0 **Purity** 99%	(Lot MKCH6067)	1,000.2	µg/mL	+/- 5.8151 +/- 30.2532 +/- 30.2532	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
41	Acenaphthene **CAS #** 83-32-9 **Purity** 99%	(Lot MKCQ4733)	1,001.9	µg/mL	+/- 5.8251 +/- 30.3053 +/- 30.3053	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
42	3-Nitroaniline **CAS #** 99-09-2 **Purity** 99%	(Lot MKCH5457)	1,000.7	µg/mL	+/- 5.8183 +/- 30.2700 +/- 30.2700	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
43	2,4-Dinitrophenol **CAS #** 51-28-5 **Purity** 99%	(Lot STBH7564)	1,001.3	µg/mL	+/- 5.8218 +/- 30.2885 +/- 30.2885	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
44	Dibenzofuran **CAS #** 132-64-9 **Purity** 99%	(Lot MKCN1772)	1,001.7	µg/mL	+/- 5.8241 +/- 30.3003 +/- 30.3003	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
45	2,4-Dinitrotoluene **CAS #** 121-14-2 **Purity** 99%	(Lot MKAA0690V)	1,001.3	µg/mL	+/- 5.8215 +/- 30.2868 +/- 30.2868	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
46	4-Nitrophenol **CAS #** 100-02-7 **Purity** 99%	(Lot MKCF6111)	1,001.3	µg/mL	+/- 5.8215 +/- 30.2868 +/- 30.2868	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
47	2,3,4,6-Tetrachlorophenol **CAS #** 58-90-2 **Purity** 99%	(Lot PR-30126)	1,001.6	µg/mL	+/- 5.8235 +/- 30.2969 +/- 30.2969	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
48	2,3,5,6-Tetrachlorophenol **CAS #** 935-95-5 **Purity** 99%	(Lot 012016)	1,000.3	µg/mL	+/- 5.8157 +/- 30.2566 +/- 30.2566	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
49	Fluorene **CAS #** 86-73-7 **Purity** 99%	(Lot 10236068)	1,002.0	µg/mL	+/- 5.8257 +/- 30.3087 +/- 30.3087	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
50	4-Chlorophenyl phenyl ether **CAS #** 7005-72-3 **Purity** 99%	(Lot MKCQ0984)	1,001.7	µg/mL	+/- 5.8238 +/- 30.2986 +/- 30.2986	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
51	Diethylphthalate **CAS #** 84-66-2 **Purity** 99%	(Lot BCCD3396)	1,000.6	µg/mL	+/- 5.8176 +/- 30.2667 +/- 30.2667	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
52	4-Nitroaniline **CAS #** 100-01-6 **Purity** 99%	(Lot RP220302)	1,001.8	µg/mL	+/- 5.8247 +/- 30.3036 +/- 30.3036	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol) **CAS #** 534-52-1 **Purity** 99%	(Lot 220318SAM)	1,000.6	µg/mL	+/- 5.8176 +/- 30.2667 +/- 30.2667	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
54	Diphenylamine **CAS #** 122-39-4 **Purity** 99%	(Lot MKCH1042)	1,002.4	µg/mL	+/- 5.8280 +/- 30.3205 +/- 30.3205	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
55	Azobenzene **CAS #** 103-33-3 **Purity** 99%	(Lot BCCC9136)	1,000.4	µg/mL	+/- 5.8167 +/- 30.2616 +/- 30.2616	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

56	4-Bromophenyl phenyl ether **CAS #** 101-55-3 **Purity** 99%	(Lot STBH6361)	1,001.7 µg/mL	+/- 5.8241 +/- 30.3003 +/- 30.3003	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
57	Hexachlorobenzene **CAS #** 118-74-1 **Purity** 99%	(Lot 13027400)	1,000.8 µg/mL	+/- 5.8186 +/- 30.2717 +/- 30.2717	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
58	Pentachlorophenol **CAS #** 87-86-5 **Purity** 99%	(Lot 211229RSR)	1,000.4 µg/mL	+/- 5.8167 +/- 30.2616 +/- 30.2616	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
59	Phenanthrene **CAS #** 85-01-8 **Purity** 99%	(Lot MKCL7390)	1,000.8 µg/mL	+/- 5.8189 +/- 30.2734 +/- 30.2734	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
60	Anthracene **CAS #** 120-12-7 **Purity** 99%	(Lot MKCN0922)	1,000.7 µg/mL	+/- 5.8180 +/- 30.2684 +/- 30.2684	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
61	Carbazole **CAS #** 86-74-8 **Purity** 99%	(Lot 12549400)	1,002.1 µg/mL	+/- 5.8260 +/- 30.3104 +/- 30.3104	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
62	Di-n-butylphthalate **CAS #** 84-74-2 **Purity** 99%	(Lot MKCL9573)	1,000.4 µg/mL	+/- 5.8163 +/- 30.2600 +/- 30.2600	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
63	Fluoranthene **CAS #** 206-44-0 **Purity** 99%	(Lot MKCQ4728)	1,000.6 µg/mL	+/- 5.8173 +/- 30.2650 +/- 30.2650	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
64	Pyrene **CAS #** 129-00-0 **Purity** 99%	(Lot BCCG2258)	1,000.8 µg/mL	+/- 5.8186 +/- 30.2717 +/- 30.2717	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
65	Benzyl butyl phthalate **CAS #** 85-68-7 **Purity** 99%	(Lot MKCN9008)	1,001.0 µg/mL	+/- 5.8199 +/- 30.2784 +/- 30.2784	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
66	Bis(2-ethylhexyl)adipate **CAS #** 103-23-1 **Purity** 99%	(Lot MKCM1988)	1,000.2 µg/mL	+/- 5.8151 +/- 30.2532 +/- 30.2532	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
67	Benz(a)anthracene **CAS #** 56-55-3 **Purity** 96%	(Lot RP220209)	1,000.3 µg/mL	+/- 5.8159 +/- 30.2579 +/- 30.2579	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
68	Chrysene **CAS #** 218-01-9 **Purity** 99%	(Lot 468677L08C)	1,000.4 µg/mL	+/- 5.8163 +/- 30.2600 +/- 30.2600	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
69	Bis(2-ethylhexyl)phthalate **CAS #** 117-81-7 **Purity** 99%	(Lot MKCQ3468)	1,000.4 µg/mL	+/- 5.8163 +/- 30.2600 +/- 30.2600	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
70	Di-n-octyl phthalate **CAS #** 117-84-0 **Purity** 99%	(Lot 12382500)	1,001.9 µg/mL	+/- 5.8251 +/- 30.3053 +/- 30.3053	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
71	Benzo(b)fluoranthene **CAS #** 205-99-2 **Purity** 99%	(Lot 012012B)	1,001.1 µg/mL	+/- 5.8202 +/- 30.2801 +/- 30.2801	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

72	Benzo(k)fluoranthene **CAS #** 207-08-9 **Purity** 99%	(Lot 012019K)	1,000.8	µg/mL	+/- 5.8186 +/- 30.2717 +/- 30.2717	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
73	Benzo(a)pyrene **CAS #** 50-32-8 **Purity** 99%	(Lot Z8BKF)	1,000.9	µg/mL	+/- 5.8196 +/- 30.2768 +/- 30.2768	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
74	Indeno(1,2,3-cd)pyrene **CAS #** 193-39-5 **Purity** 99%	(Lot 12-JKL-118-9)	1,001.2	µg/mL	+/- 5.8212 +/- 30.2852 +/- 30.2852	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
75	Dibenz(a,h)anthracene **CAS #** 53-70-3 **Purity** 99%	(Lot ER032211-01)	1,000.3	µg/mL	+/- 5.8160 +/- 30.2583 +/- 30.2583	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
76	Benzo(g,h,i)perylene **CAS #** 191-24-2 **Purity** 98%	(Lot AVUAD)	1,001.7	µg/mL	+/- 5.8238 +/- 30.2987 +/- 30.2987	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

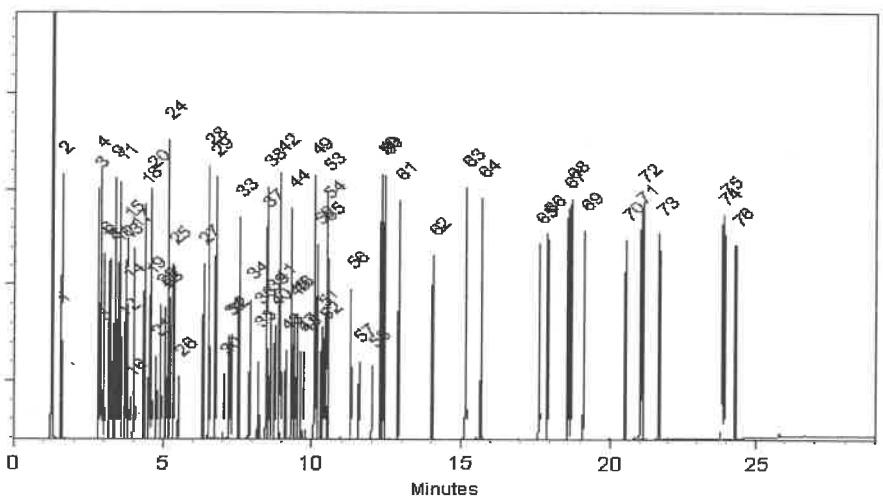
Carrier Gas:
hydrogen-constant flow 1.8 mL/min.

Temp. Program:
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

Inj. Temp:
250°C

Det. Temp:
340°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Cathleen Soltis - Mix Technician

Date Mixed: 13-May-2022 **Balance:** B442140311

Christie Mills - Operations Technician II

Date Passed: 02-Jun-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received by CG on 02/06/23
S 11016 to S 11045

Catalog No. : 31850 **Lot No.:** A0185274

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2023 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Pyridine **CAS #** 110-86-1 (Lot SHBL0433) **Purity** 99%	1,001.1 µg/mL	+/- 5.8205 µg/mL +/- 30.2818 µg/mL +/- 30.2818 µg/mL	Gravimetric Unstressed Stressed
2	N-Nitrosodimethylamine **CAS #** 62-75-9 (Lot 220520JLM) **Purity** 99%	1,001.1 µg/mL	+/- 5.8202 µg/mL +/- 30.2801 µg/mL +/- 30.2801 µg/mL	Gravimetric Unstressed Stressed
3	Phenol **CAS #** 108-95-2 (Lot MKCK1120) **Purity** 99%	1,000.8 µg/mL	+/- 5.8189 µg/mL +/- 30.2734 µg/mL +/- 30.2734 µg/mL	Gravimetric Unstressed Stressed
4	Aniline **CAS #** 62-53-3 (Lot X22F726) **Purity** 99%	1,001.2 µg/mL	+/- 5.8212 µg/mL +/- 30.2852 µg/mL +/- 30.2852 µg/mL	Gravimetric Unstressed Stressed
5	Bis(2-chloroethyl)ether **CAS #** 111-44-4 (Lot SHBL6942) **Purity** 99%	1,000.8 µg/mL	+/- 5.8186 µg/mL +/- 30.2717 µg/mL +/- 30.2717 µg/mL	Gravimetric Unstressed Stressed
6	2-Chlorophenol **CAS #** 95-57-8 (Lot STBH7290) **Purity** 99%	1,002.3 µg/mL	+/- 5.8273 µg/mL +/- 30.3171 µg/mL +/- 30.3171 µg/mL	Gravimetric Unstressed Stressed
7	1,3-Dichlorobenzene **CAS #** 541-73-1 (Lot BCBZ7498) **Purity** 99%	1,001.2 µg/mL	+/- 5.8209 µg/mL +/- 30.2835 µg/mL +/- 30.2835 µg/mL	Gravimetric Unstressed Stressed

8	1,4-Dichlorobenzene **CAS #** 106-46-7 **Purity** 99%	(Lot MKBS4401V)	1,001.0	µg/mL	+/- 5.8199 +/- 30.2784 +/- 30.2784	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
9	Benzyl alcohol **CAS #** 100-51-6 **Purity** 99%	(Lot SHBK5943)	1,000.6	µg/mL	+/- 5.8176 +/- 30.2667 +/- 30.2667	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
10	1,2-Dichlorobenzene **CAS #** 95-50-1 **Purity** 99%	(Lot SHBN3835)	1,002.1	µg/mL	+/- 5.8260 +/- 30.3104 +/- 30.3104	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
11	2-Methylphenol (o-cresol) **CAS #** 95-48-7 **Purity** 99%	(Lot SHBM5003)	1,000.4	µg/mL	+/- 5.8167 +/- 30.2616 +/- 30.2616	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
12	2,2'-oxybis(1-chloropropane) **CAS #** 108-60-1 **Purity** 99%	(Lot 12549200)	1,000.8	µg/mL	+/- 5.8186 +/- 30.2717 +/- 30.2717	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
13	3-Methylphenol (m-cresol) **CAS #** 108-39-4 **Purity** 99%	(Lot STBJ0710)	500.4	µg/mL	+/- 2.9164 +/- 15.1388 +/- 15.1388	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
14	4-Methylphenol (p-cresol) **CAS #** 106-44-5 **Purity** 99%	(Lot SHBN1151)	500.1	µg/mL	+/- 2.9144 +/- 15.1288 +/- 15.1288	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
15	N-Nitroso-di-n-propylamine **CAS #** 621-64-7 **Purity** 99%	(Lot 2D5VJ)	1,000.2	µg/mL	+/- 5.8151 +/- 30.2532 +/- 30.2532	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
16	Hexachloroethane **CAS #** 67-72-1 **Purity** 99%	(Lot QTORH)	1,001.7	µg/mL	+/- 5.8238 +/- 30.2986 +/- 30.2986	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
17	Nitrobenzene **CAS #** 98-95-3 **Purity** 99%	(Lot 10224044)	1,000.3	µg/mL	+/- 5.8157 +/- 30.2566 +/- 30.2566	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
18	Isophorone **CAS #** 78-59-1 **Purity** 99%	(Lot MKCC9506)	1,002.2	µg/mL	+/- 5.8267 +/- 30.3137 +/- 30.3137	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
19	2-Nitrophenol **CAS #** 88-75-5 **Purity** 99%	(Lot BCCB2407)	1,000.8	µg/mL	+/- 5.8189 +/- 30.2734 +/- 30.2734	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
20	2,4-Dimethylphenol **CAS #** 105-67-9 **Purity** 99%	(Lot XW5GK)	1,002.6	µg/mL	+/- 5.8293 +/- 30.3272 +/- 30.3272	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
21	Bis(2-chloroethoxy)methane **CAS #** 111-91-1 **Purity** 99%	(Lot 12665000)	1,000.9	µg/mL	+/- 5.8193 +/- 30.2751 +/- 30.2751	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
22	2,4-Dichlorophenol **CAS #** 120-83-2 **Purity** 99%	(Lot BCBZ6787)	1,001.5	µg/mL	+/- 5.8228 +/- 30.2936 +/- 30.2936	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
23	1,2,4-Trichlorobenzene **CAS #** 120-82-1 **Purity** 99%	(Lot SHBM0526)	1,000.8	µg/mL	+/- 5.8189 +/- 30.2734 +/- 30.2734	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

24	Naphthalene **CAS #** 91-20-3 **Purity** 99%	(Lot MKCH0219)	1,001.3	µg/mL	+/- 5.8215 +/- 30.2868 +/- 30.2868	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
25	4-Chloroaniline **CAS #** 106-47-8 **Purity** 99%	(Lot BCBJ1580V)	1,000.1	µg/mL	+/- 5.8144 +/- 30.2499 +/- 30.2499	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
26	Hexachlorobutadiene **CAS #** 87-68-3 **Purity** 99%	(Lot X05J)	1,002.2	µg/mL	+/- 5.8270 +/- 30.3154 +/- 30.3154	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
27	4-Chloro-3-methylphenol **CAS #** 59-50-7 **Purity** 99%	(Lot BCCD4461)	1,001.3	µg/mL	+/- 5.8215 +/- 30.2868 +/- 30.2868	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
28	2-Methylnaphthalene **CAS #** 91-57-6 **Purity** 96%	(Lot STBK0259)	1,002.2	µg/mL	+/- 5.8268 +/- 30.3143 +/- 30.3143	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
29	1-Methylnaphthalene **CAS #** 90-12-0 **Purity** 99%	(Lot 5234.00-3)	1,000.0	µg/mL	+/- 5.8141 +/- 30.2482 +/- 30.2482	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
30	Hexachlorocyclopentadiene **CAS #** 77-47-4 **Purity** 99%	(Lot 0012020)	1,000.7	µg/mL	+/- 5.8180 +/- 30.2684 +/- 30.2684	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
31	2,4,6-Trichlorophenol **CAS #** 88-06-2 **Purity** 99%	(Lot STBJ5914)	1,002.9	µg/mL	+/- 5.8309 +/- 30.3356 +/- 30.3356	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
32	2,4,5-Trichlorophenol **CAS #** 95-95-4 **Purity** 98%	(Lot FHN01)	1,001.9	µg/mL	+/- 5.8254 +/- 30.3069 +/- 30.3069	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
33	2-Chloronaphthalene **CAS #** 91-58-7 **Purity** 99%	(Lot TWYRD)	1,000.2	µg/mL	+/- 5.8154 +/- 30.2549 +/- 30.2549	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
34	2-Nitroaniline **CAS #** 88-74-4 **Purity** 99%	(Lot MKCJ8895)	1,001.6	µg/mL	+/- 5.8235 +/- 30.2969 +/- 30.2969	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
35	1,4-Dinitrobenzene **CAS #** 100-25-4 **Purity** 99%	(Lot STBF8844V)	1,002.2	µg/mL	+/- 5.8267 +/- 30.3137 +/- 30.3137	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
36	Acenaphthylene **CAS #** 208-96-8 **Purity** 98%	(Lot L20W)	1,000.0	µg/mL	+/- 5.8143 +/- 30.2493 +/- 30.2493	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
37	1,3-Dinitrobenzene **CAS #** 99-65-0 **Purity** 99%	(Lot 1-DXX-24-1)	1,002.7	µg/mL	+/- 5.8296 +/- 30.3289 +/- 30.3289	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
38	Dimethylphthalate **CAS #** 131-11-3 **Purity** 99%	(Lot 10117699)	1,000.2	µg/mL	+/- 5.8154 +/- 30.2549 +/- 30.2549	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
39	2,6-Dinitrotoluene **CAS #** 606-20-2 **Purity** 99%	(Lot BCBB8606)	1,001.3	µg/mL	+/- 5.8218 +/- 30.2885 +/- 30.2885	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

40	1,2-Dinitrobenzene **CAS #** 528-29-0 **Purity** 99%	(Lot MKCH6067)	1,000.2	µg/mL	+/- 5.8151 +/- 30.2532 +/- 30.2532	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
41	Acenaphthene **CAS #** 83-32-9 **Purity** 99%	(Lot MKCQ4733)	1,001.9	µg/mL	+/- 5.8251 +/- 30.3053 +/- 30.3053	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
42	3-Nitroaniline **CAS #** 99-09-2 **Purity** 99%	(Lot MKCH5457)	1,000.7	µg/mL	+/- 5.8183 +/- 30.2700 +/- 30.2700	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
43	2,4-Dinitrophenol **CAS #** 51-28-5 **Purity** 99%	(Lot STBH7564)	1,001.3	µg/mL	+/- 5.8218 +/- 30.2885 +/- 30.2885	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
44	Dibenzofuran **CAS #** 132-64-9 **Purity** 99%	(Lot MKCN1772)	1,001.7	µg/mL	+/- 5.8241 +/- 30.3003 +/- 30.3003	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
45	2,4-Dinitrotoluene **CAS #** 121-14-2 **Purity** 99%	(Lot MKAA0690V)	1,001.3	µg/mL	+/- 5.8215 +/- 30.2868 +/- 30.2868	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
46	4-Nitrophenol **CAS #** 100-02-7 **Purity** 99%	(Lot MKCF6111)	1,001.3	µg/mL	+/- 5.8215 +/- 30.2868 +/- 30.2868	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
47	2,3,4,6-Tetrachlorophenol **CAS #** 58-90-2 **Purity** 99%	(Lot PR-30126)	1,001.6	µg/mL	+/- 5.8235 +/- 30.2969 +/- 30.2969	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
48	2,3,5,6-Tetrachlorophenol **CAS #** 935-95-5 **Purity** 99%	(Lot 012016)	1,000.3	µg/mL	+/- 5.8157 +/- 30.2566 +/- 30.2566	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
49	Fluorene **CAS #** 86-73-7 **Purity** 99%	(Lot 10236068)	1,002.0	µg/mL	+/- 5.8257 +/- 30.3087 +/- 30.3087	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
50	4-Chlorophenyl phenyl ether **CAS #** 7005-72-3 **Purity** 99%	(Lot MKCQ0984)	1,001.7	µg/mL	+/- 5.8238 +/- 30.2986 +/- 30.2986	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
51	Diethylphthalate **CAS #** 84-66-2 **Purity** 99%	(Lot BCCD3396)	1,000.6	µg/mL	+/- 5.8176 +/- 30.2667 +/- 30.2667	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
52	4-Nitroaniline **CAS #** 100-01-6 **Purity** 99%	(Lot RP220302)	1,001.8	µg/mL	+/- 5.8247 +/- 30.3036 +/- 30.3036	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol) **CAS #** 534-52-1 **Purity** 99%	(Lot 220318SAM)	1,000.6	µg/mL	+/- 5.8176 +/- 30.2667 +/- 30.2667	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
54	Diphenylamine **CAS #** 122-39-4 **Purity** 99%	(Lot MKCH1042)	1,002.4	µg/mL	+/- 5.8280 +/- 30.3205 +/- 30.3205	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
55	Azobenzene **CAS #** 103-33-3 **Purity** 99%	(Lot BCCC9136)	1,000.4	µg/mL	+/- 5.8167 +/- 30.2616 +/- 30.2616	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

56	4-Bromophenyl phenyl ether **CAS #** 101-55-3 **Purity** 99%	(Lot STBH6361)	1,001.7	µg/mL	+/- 5.8241 +/- 30.3003 +/- 30.3003	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
57	Hexachlorobenzene **CAS #** 118-74-1 **Purity** 99%	(Lot 13027400)	1,000.8	µg/mL	+/- 5.8186 +/- 30.2717 +/- 30.2717	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
58	Pentachlorophenol **CAS #** 87-86-5 **Purity** 99%	(Lot 211229RSR)	1,000.4	µg/mL	+/- 5.8167 +/- 30.2616 +/- 30.2616	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
59	Phenanthrene **CAS #** 85-01-8 **Purity** 99%	(Lot MKCL7390)	1,000.8	µg/mL	+/- 5.8189 +/- 30.2734 +/- 30.2734	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
60	Anthracene **CAS #** 120-12-7 **Purity** 99%	(Lot MKCN0922)	1,000.7	µg/mL	+/- 5.8180 +/- 30.2684 +/- 30.2684	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
61	Carbazole **CAS #** 86-74-8 **Purity** 99%	(Lot 12549400)	1,002.1	µg/mL	+/- 5.8260 +/- 30.3104 +/- 30.3104	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
62	Di-n-butylphthalate **CAS #** 84-74-2 **Purity** 99%	(Lot MKCL9573)	1,000.4	µg/mL	+/- 5.8163 +/- 30.2600 +/- 30.2600	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
63	Fluoranthene **CAS #** 206-44-0 **Purity** 99%	(Lot MKCQ4728)	1,000.6	µg/mL	+/- 5.8173 +/- 30.2650 +/- 30.2650	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
64	Pyrene **CAS #** 129-00-0 **Purity** 99%	(Lot BCCG2258)	1,000.8	µg/mL	+/- 5.8186 +/- 30.2717 +/- 30.2717	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
65	Benzyl butyl phthalate **CAS #** 85-68-7 **Purity** 99%	(Lot MKCN9008)	1,001.0	µg/mL	+/- 5.8199 +/- 30.2784 +/- 30.2784	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
66	Bis(2-ethylhexyl)adipate **CAS #** 103-23-1 **Purity** 99%	(Lot MKCM1988)	1,000.2	µg/mL	+/- 5.8151 +/- 30.2532 +/- 30.2532	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
67	Benz(a)anthracene **CAS #** 56-55-3 **Purity** 96%	(Lot RP220209)	1,000.3	µg/mL	+/- 5.8159 +/- 30.2579 +/- 30.2579	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
68	Chrysene **CAS #** 218-01-9 **Purity** 99%	(Lot 468677L08C)	1,000.4	µg/mL	+/- 5.8163 +/- 30.2600 +/- 30.2600	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
69	Bis(2-ethylhexyl)phthalate **CAS #** 117-81-7 **Purity** 99%	(Lot MKCQ3468)	1,000.4	µg/mL	+/- 5.8163 +/- 30.2600 +/- 30.2600	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
70	Di-n-octyl phthalate **CAS #** 117-84-0 **Purity** 99%	(Lot 12382500)	1,001.9	µg/mL	+/- 5.8251 +/- 30.3053 +/- 30.3053	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
71	Benzo(b)fluoranthene **CAS #** 205-99-2 **Purity** 99%	(Lot 012012B)	1,001.1	µg/mL	+/- 5.8202 +/- 30.2801 +/- 30.2801	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

72	Benzo(k)fluoranthene **CAS #** 207-08-9 **Purity** 99%	(Lot 012019K)	1,000.8	µg/mL	+/- 5.8186 +/- 30.2717 +/- 30.2717	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
73	Benzo(a)pyrene **CAS #** 50-32-8 **Purity** 99%	(Lot Z8BKF)	1,000.9	µg/mL	+/- 5.8196 +/- 30.2768 +/- 30.2768	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
74	Indeno(1,2,3-cd)pyrene **CAS #** 193-39-5 **Purity** 99%	(Lot 12-JKL-118-9)	1,001.2	µg/mL	+/- 5.8212 +/- 30.2852 +/- 30.2852	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
75	Dibenz(a,h)anthracene **CAS #** 53-70-3 **Purity** 99%	(Lot ER032211-01)	1,000.3	µg/mL	+/- 5.8160 +/- 30.2583 +/- 30.2583	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
76	Benzo(g,h,i)perylene **CAS #** 191-24-2 **Purity** 98%	(Lot AVUAD)	1,001.7	µg/mL	+/- 5.8238 +/- 30.2987 +/- 30.2987	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

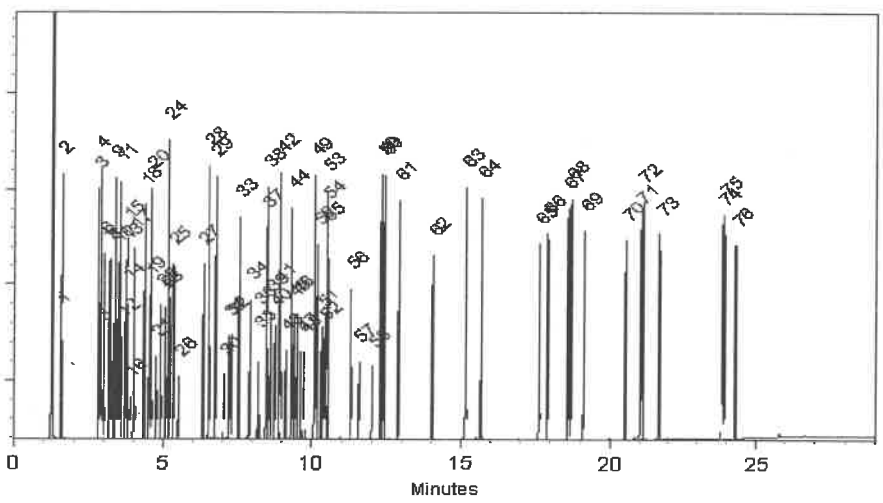
Carrier Gas:
hydrogen-constant flow 1.8 mL/min.

Temp. Program:
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

Inj. Temp:
250°C

Det. Temp:
340°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Cathleen Soltis - Mix Technician

Date Mixed: 13-May-2022 **Balance:** B442140311

Christie Mills - Operations Technician II

Date Passed: 02-Jun-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received by CG on 02/06/23
S 11016 to S 11045

Catalog No. : 31850 **Lot No.:** A0185274

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2023 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Pyridine **CAS #** 110-86-1 (Lot SHBL0433) **Purity** 99%	1,001.1 µg/mL	+/- 5.8205 µg/mL +/- 30.2818 µg/mL +/- 30.2818 µg/mL	Gravimetric Unstressed Stressed
2	N-Nitrosodimethylamine **CAS #** 62-75-9 (Lot 220520JLM) **Purity** 99%	1,001.1 µg/mL	+/- 5.8202 µg/mL +/- 30.2801 µg/mL +/- 30.2801 µg/mL	Gravimetric Unstressed Stressed
3	Phenol **CAS #** 108-95-2 (Lot MKCK1120) **Purity** 99%	1,000.8 µg/mL	+/- 5.8189 µg/mL +/- 30.2734 µg/mL +/- 30.2734 µg/mL	Gravimetric Unstressed Stressed
4	Aniline **CAS #** 62-53-3 (Lot X22F726) **Purity** 99%	1,001.2 µg/mL	+/- 5.8212 µg/mL +/- 30.2852 µg/mL +/- 30.2852 µg/mL	Gravimetric Unstressed Stressed
5	Bis(2-chloroethyl)ether **CAS #** 111-44-4 (Lot SHBL6942) **Purity** 99%	1,000.8 µg/mL	+/- 5.8186 µg/mL +/- 30.2717 µg/mL +/- 30.2717 µg/mL	Gravimetric Unstressed Stressed
6	2-Chlorophenol **CAS #** 95-57-8 (Lot STBH7290) **Purity** 99%	1,002.3 µg/mL	+/- 5.8273 µg/mL +/- 30.3171 µg/mL +/- 30.3171 µg/mL	Gravimetric Unstressed Stressed
7	1,3-Dichlorobenzene **CAS #** 541-73-1 (Lot BCBZ7498) **Purity** 99%	1,001.2 µg/mL	+/- 5.8209 µg/mL +/- 30.2835 µg/mL +/- 30.2835 µg/mL	Gravimetric Unstressed Stressed

8	1,4-Dichlorobenzene **CAS #** 106-46-7 **Purity** 99%	(Lot MKBS4401V)	1,001.0	µg/mL	+/- 5.8199 +/- 30.2784 +/- 30.2784	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
9	Benzyl alcohol **CAS #** 100-51-6 **Purity** 99%	(Lot SHBK5943)	1,000.6	µg/mL	+/- 5.8176 +/- 30.2667 +/- 30.2667	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
10	1,2-Dichlorobenzene **CAS #** 95-50-1 **Purity** 99%	(Lot SHBN3835)	1,002.1	µg/mL	+/- 5.8260 +/- 30.3104 +/- 30.3104	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
11	2-Methylphenol (o-cresol) **CAS #** 95-48-7 **Purity** 99%	(Lot SHBM5003)	1,000.4	µg/mL	+/- 5.8167 +/- 30.2616 +/- 30.2616	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
12	2,2'-oxybis(1-chloropropane) **CAS #** 108-60-1 **Purity** 99%	(Lot 12549200)	1,000.8	µg/mL	+/- 5.8186 +/- 30.2717 +/- 30.2717	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
13	3-Methylphenol (m-cresol) **CAS #** 108-39-4 **Purity** 99%	(Lot STBJ0710)	500.4	µg/mL	+/- 2.9164 +/- 15.1388 +/- 15.1388	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
14	4-Methylphenol (p-cresol) **CAS #** 106-44-5 **Purity** 99%	(Lot SHBN1151)	500.1	µg/mL	+/- 2.9144 +/- 15.1288 +/- 15.1288	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
15	N-Nitroso-di-n-propylamine **CAS #** 621-64-7 **Purity** 99%	(Lot 2D5VJ)	1,000.2	µg/mL	+/- 5.8151 +/- 30.2532 +/- 30.2532	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
16	Hexachloroethane **CAS #** 67-72-1 **Purity** 99%	(Lot QTORH)	1,001.7	µg/mL	+/- 5.8238 +/- 30.2986 +/- 30.2986	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
17	Nitrobenzene **CAS #** 98-95-3 **Purity** 99%	(Lot 10224044)	1,000.3	µg/mL	+/- 5.8157 +/- 30.2566 +/- 30.2566	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
18	Isophorone **CAS #** 78-59-1 **Purity** 99%	(Lot MKCC9506)	1,002.2	µg/mL	+/- 5.8267 +/- 30.3137 +/- 30.3137	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
19	2-Nitrophenol **CAS #** 88-75-5 **Purity** 99%	(Lot BCCB2407)	1,000.8	µg/mL	+/- 5.8189 +/- 30.2734 +/- 30.2734	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
20	2,4-Dimethylphenol **CAS #** 105-67-9 **Purity** 99%	(Lot XW5GK)	1,002.6	µg/mL	+/- 5.8293 +/- 30.3272 +/- 30.3272	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
21	Bis(2-chloroethoxy)methane **CAS #** 111-91-1 **Purity** 99%	(Lot 12665000)	1,000.9	µg/mL	+/- 5.8193 +/- 30.2751 +/- 30.2751	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
22	2,4-Dichlorophenol **CAS #** 120-83-2 **Purity** 99%	(Lot BCBZ6787)	1,001.5	µg/mL	+/- 5.8228 +/- 30.2936 +/- 30.2936	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
23	1,2,4-Trichlorobenzene **CAS #** 120-82-1 **Purity** 99%	(Lot SHBM0526)	1,000.8	µg/mL	+/- 5.8189 +/- 30.2734 +/- 30.2734	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

24	Naphthalene **CAS #** 91-20-3 **Purity** 99%	(Lot MKCH0219)	1,001.3	µg/mL	+/- 5.8215 +/- 30.2868 +/- 30.2868	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
25	4-Chloroaniline **CAS #** 106-47-8 **Purity** 99%	(Lot BCBJ1580V)	1,000.1	µg/mL	+/- 5.8144 +/- 30.2499 +/- 30.2499	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
26	Hexachlorobutadiene **CAS #** 87-68-3 **Purity** 99%	(Lot X05J)	1,002.2	µg/mL	+/- 5.8270 +/- 30.3154 +/- 30.3154	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
27	4-Chloro-3-methylphenol **CAS #** 59-50-7 **Purity** 99%	(Lot BCCD4461)	1,001.3	µg/mL	+/- 5.8215 +/- 30.2868 +/- 30.2868	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
28	2-Methylnaphthalene **CAS #** 91-57-6 **Purity** 96%	(Lot STBK0259)	1,002.2	µg/mL	+/- 5.8268 +/- 30.3143 +/- 30.3143	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
29	1-Methylnaphthalene **CAS #** 90-12-0 **Purity** 99%	(Lot 5234.00-3)	1,000.0	µg/mL	+/- 5.8141 +/- 30.2482 +/- 30.2482	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
30	Hexachlorocyclopentadiene **CAS #** 77-47-4 **Purity** 99%	(Lot 0012020)	1,000.7	µg/mL	+/- 5.8180 +/- 30.2684 +/- 30.2684	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
31	2,4,6-Trichlorophenol **CAS #** 88-06-2 **Purity** 99%	(Lot STBJ5914)	1,002.9	µg/mL	+/- 5.8309 +/- 30.3356 +/- 30.3356	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
32	2,4,5-Trichlorophenol **CAS #** 95-95-4 **Purity** 98%	(Lot FHN01)	1,001.9	µg/mL	+/- 5.8254 +/- 30.3069 +/- 30.3069	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
33	2-Chloronaphthalene **CAS #** 91-58-7 **Purity** 99%	(Lot TWYRD)	1,000.2	µg/mL	+/- 5.8154 +/- 30.2549 +/- 30.2549	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
34	2-Nitroaniline **CAS #** 88-74-4 **Purity** 99%	(Lot MKCJ8895)	1,001.6	µg/mL	+/- 5.8235 +/- 30.2969 +/- 30.2969	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
35	1,4-Dinitrobenzene **CAS #** 100-25-4 **Purity** 99%	(Lot STBF8844V)	1,002.2	µg/mL	+/- 5.8267 +/- 30.3137 +/- 30.3137	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
36	Acenaphthylene **CAS #** 208-96-8 **Purity** 98%	(Lot L20W)	1,000.0	µg/mL	+/- 5.8143 +/- 30.2493 +/- 30.2493	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
37	1,3-Dinitrobenzene **CAS #** 99-65-0 **Purity** 99%	(Lot 1-DXX-24-1)	1,002.7	µg/mL	+/- 5.8296 +/- 30.3289 +/- 30.3289	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
38	Dimethylphthalate **CAS #** 131-11-3 **Purity** 99%	(Lot 10117699)	1,000.2	µg/mL	+/- 5.8154 +/- 30.2549 +/- 30.2549	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
39	2,6-Dinitrotoluene **CAS #** 606-20-2 **Purity** 99%	(Lot BCBB8606)	1,001.3	µg/mL	+/- 5.8218 +/- 30.2885 +/- 30.2885	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

40	1,2-Dinitrobenzene **CAS #** 528-29-0 **Purity** 99%	(Lot MKCH6067)	1,000.2	µg/mL	+/- 5.8151 +/- 30.2532 +/- 30.2532	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
41	Acenaphthene **CAS #** 83-32-9 **Purity** 99%	(Lot MKCQ4733)	1,001.9	µg/mL	+/- 5.8251 +/- 30.3053 +/- 30.3053	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
42	3-Nitroaniline **CAS #** 99-09-2 **Purity** 99%	(Lot MKCH5457)	1,000.7	µg/mL	+/- 5.8183 +/- 30.2700 +/- 30.2700	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
43	2,4-Dinitrophenol **CAS #** 51-28-5 **Purity** 99%	(Lot STBH7564)	1,001.3	µg/mL	+/- 5.8218 +/- 30.2885 +/- 30.2885	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
44	Dibenzofuran **CAS #** 132-64-9 **Purity** 99%	(Lot MKCN1772)	1,001.7	µg/mL	+/- 5.8241 +/- 30.3003 +/- 30.3003	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
45	2,4-Dinitrotoluene **CAS #** 121-14-2 **Purity** 99%	(Lot MKAA0690V)	1,001.3	µg/mL	+/- 5.8215 +/- 30.2868 +/- 30.2868	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
46	4-Nitrophenol **CAS #** 100-02-7 **Purity** 99%	(Lot MKCF6111)	1,001.3	µg/mL	+/- 5.8215 +/- 30.2868 +/- 30.2868	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
47	2,3,4,6-Tetrachlorophenol **CAS #** 58-90-2 **Purity** 99%	(Lot PR-30126)	1,001.6	µg/mL	+/- 5.8235 +/- 30.2969 +/- 30.2969	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
48	2,3,5,6-Tetrachlorophenol **CAS #** 935-95-5 **Purity** 99%	(Lot 012016)	1,000.3	µg/mL	+/- 5.8157 +/- 30.2566 +/- 30.2566	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
49	Fluorene **CAS #** 86-73-7 **Purity** 99%	(Lot 10236068)	1,002.0	µg/mL	+/- 5.8257 +/- 30.3087 +/- 30.3087	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
50	4-Chlorophenyl phenyl ether **CAS #** 7005-72-3 **Purity** 99%	(Lot MKCQ0984)	1,001.7	µg/mL	+/- 5.8238 +/- 30.2986 +/- 30.2986	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
51	Diethylphthalate **CAS #** 84-66-2 **Purity** 99%	(Lot BCCD3396)	1,000.6	µg/mL	+/- 5.8176 +/- 30.2667 +/- 30.2667	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
52	4-Nitroaniline **CAS #** 100-01-6 **Purity** 99%	(Lot RP220302)	1,001.8	µg/mL	+/- 5.8247 +/- 30.3036 +/- 30.3036	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol) **CAS #** 534-52-1 **Purity** 99%	(Lot 220318SAM)	1,000.6	µg/mL	+/- 5.8176 +/- 30.2667 +/- 30.2667	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
54	Diphenylamine **CAS #** 122-39-4 **Purity** 99%	(Lot MKCH1042)	1,002.4	µg/mL	+/- 5.8280 +/- 30.3205 +/- 30.3205	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
55	Azobenzene **CAS #** 103-33-3 **Purity** 99%	(Lot BCCC9136)	1,000.4	µg/mL	+/- 5.8167 +/- 30.2616 +/- 30.2616	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

56	4-Bromophenyl phenyl ether **CAS #** 101-55-3 **Purity** 99%	(Lot STBH6361)	1,001.7 µg/mL	+/- 5.8241 +/- 30.3003 +/- 30.3003	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
57	Hexachlorobenzene **CAS #** 118-74-1 **Purity** 99%	(Lot 13027400)	1,000.8 µg/mL	+/- 5.8186 +/- 30.2717 +/- 30.2717	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
58	Pentachlorophenol **CAS #** 87-86-5 **Purity** 99%	(Lot 211229RSR)	1,000.4 µg/mL	+/- 5.8167 +/- 30.2616 +/- 30.2616	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
59	Phenanthrene **CAS #** 85-01-8 **Purity** 99%	(Lot MKCL7390)	1,000.8 µg/mL	+/- 5.8189 +/- 30.2734 +/- 30.2734	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
60	Anthracene **CAS #** 120-12-7 **Purity** 99%	(Lot MKCN0922)	1,000.7 µg/mL	+/- 5.8180 +/- 30.2684 +/- 30.2684	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
61	Carbazole **CAS #** 86-74-8 **Purity** 99%	(Lot 12549400)	1,002.1 µg/mL	+/- 5.8260 +/- 30.3104 +/- 30.3104	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
62	Di-n-butylphthalate **CAS #** 84-74-2 **Purity** 99%	(Lot MKCL9573)	1,000.4 µg/mL	+/- 5.8163 +/- 30.2600 +/- 30.2600	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
63	Fluoranthene **CAS #** 206-44-0 **Purity** 99%	(Lot MKCQ4728)	1,000.6 µg/mL	+/- 5.8173 +/- 30.2650 +/- 30.2650	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
64	Pyrene **CAS #** 129-00-0 **Purity** 99%	(Lot BCCG2258)	1,000.8 µg/mL	+/- 5.8186 +/- 30.2717 +/- 30.2717	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
65	Benzyl butyl phthalate **CAS #** 85-68-7 **Purity** 99%	(Lot MKCN9008)	1,001.0 µg/mL	+/- 5.8199 +/- 30.2784 +/- 30.2784	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
66	Bis(2-ethylhexyl)adipate **CAS #** 103-23-1 **Purity** 99%	(Lot MKCM1988)	1,000.2 µg/mL	+/- 5.8151 +/- 30.2532 +/- 30.2532	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
67	Benz(a)anthracene **CAS #** 56-55-3 **Purity** 96%	(Lot RP220209)	1,000.3 µg/mL	+/- 5.8159 +/- 30.2579 +/- 30.2579	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
68	Chrysene **CAS #** 218-01-9 **Purity** 99%	(Lot 468677L08C)	1,000.4 µg/mL	+/- 5.8163 +/- 30.2600 +/- 30.2600	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
69	Bis(2-ethylhexyl)phthalate **CAS #** 117-81-7 **Purity** 99%	(Lot MKCQ3468)	1,000.4 µg/mL	+/- 5.8163 +/- 30.2600 +/- 30.2600	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
70	Di-n-octyl phthalate **CAS #** 117-84-0 **Purity** 99%	(Lot 12382500)	1,001.9 µg/mL	+/- 5.8251 +/- 30.3053 +/- 30.3053	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
71	Benzo(b)fluoranthene **CAS #** 205-99-2 **Purity** 99%	(Lot 012012B)	1,001.1 µg/mL	+/- 5.8202 +/- 30.2801 +/- 30.2801	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

72	Benzo(k)fluoranthene **CAS #** 207-08-9 **Purity** 99%	(Lot 012019K)	1,000.8	µg/mL	+/- 5.8186 +/- 30.2717 +/- 30.2717	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
73	Benzo(a)pyrene **CAS #** 50-32-8 **Purity** 99%	(Lot Z8BKF)	1,000.9	µg/mL	+/- 5.8196 +/- 30.2768 +/- 30.2768	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
74	Indeno(1,2,3-cd)pyrene **CAS #** 193-39-5 **Purity** 99%	(Lot 12-JKL-118-9)	1,001.2	µg/mL	+/- 5.8212 +/- 30.2852 +/- 30.2852	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
75	Dibenz(a,h)anthracene **CAS #** 53-70-3 **Purity** 99%	(Lot ER032211-01)	1,000.3	µg/mL	+/- 5.8160 +/- 30.2583 +/- 30.2583	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
76	Benzo(g,h,i)perylene **CAS #** 191-24-2 **Purity** 98%	(Lot AVUAD)	1,001.7	µg/mL	+/- 5.8238 +/- 30.2987 +/- 30.2987	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

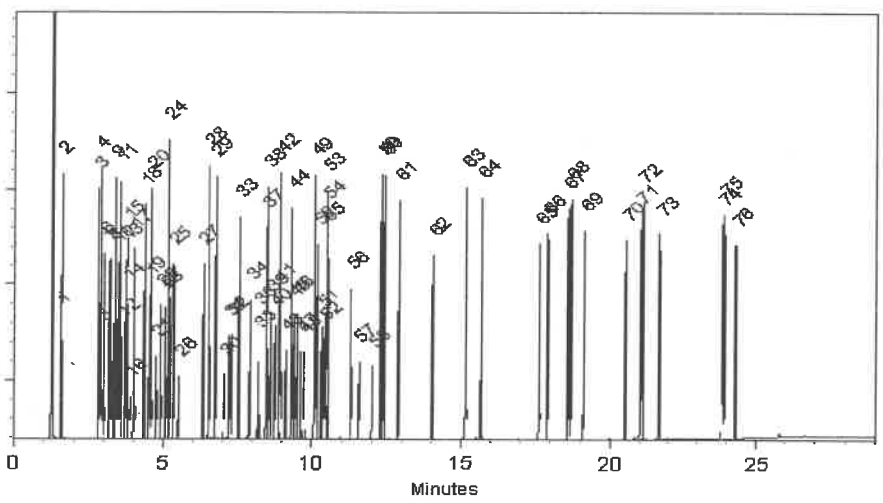
Carrier Gas:
hydrogen-constant flow 1.8 mL/min.

Temp. Program:
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

Inj. Temp:
250°C

Det. Temp:
340°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Cathleen Soltis - Mix Technician

Date Mixed: 13-May-2022 **Balance:** B442140311

Christie Mills - Operations Technician II

Date Passed: 02-Jun-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Gravimetric Certificate

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received by CG on 05/19/22
S10393 to S10402

Catalog No. : 555871 **Lot No.:** A0185300

Description : Custom 4-Nitrophenol Standard

Custom 4-Nitrophenol Standard 25,000µg/mL, Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2025 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	4-Nitrophenol	25,060.0 µg/mL	+/- 231.9100 µg/mL	Gravimetric
	CAS # 100-02-7 (Lot MKCN1089)		+/- 753.2622 µg/mL	Unstressed
	Purity 99%		+/- 905.6020 µg/mL	Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Katelyn McGinnis - Operations Tech I

Date Mixed: 16-May-2022 **Balance:** 1128342314

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received on 08/16/22 by CG
S10595 to S10624

Catalog No. : 31086 **Lot No.:** A0186198

Description : B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : May 31, 2028 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Nitrobenzene-d5 **CAS #** 4165-60-0 (Lot PR-29940A) **Purity** 99%	5,019.7 µg/mL	+/- 29.1848 µg/mL +/- 226.0888 µg/mL +/- 250.8734 µg/mL	Gravimetric Unstressed Stressed
2	2-Fluorobiphenyl **CAS #** 321-60-8 (Lot 00021384) **Purity** 99%	5,011.8 µg/mL	+/- 29.1387 µg/mL +/- 225.7322 µg/mL +/- 250.4778 µg/mL	Gravimetric Unstressed Stressed
3	p-Terphenyl-d14 **CAS #** 1718-51-0 (Lot PR-30504) **Purity** 99%	5,015.0 µg/mL	+/- 29.1576 µg/mL +/- 225.8786 µg/mL +/- 250.6402 µg/mL	Gravimetric Unstressed Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

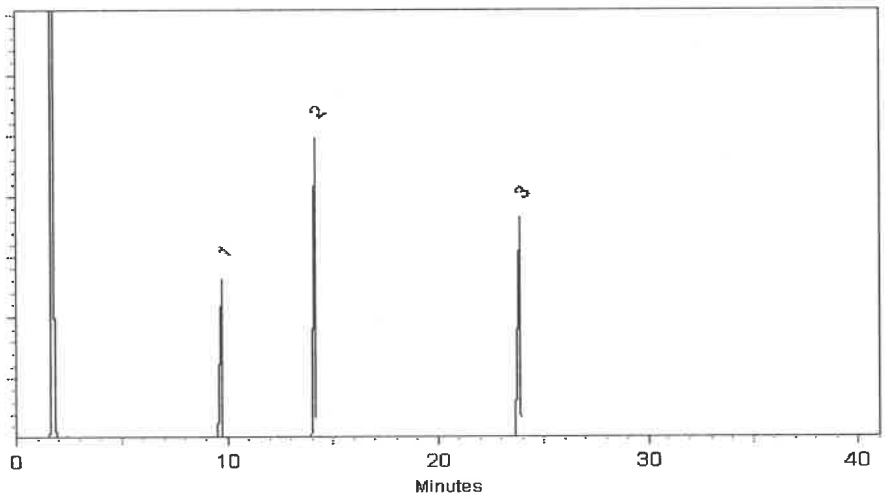
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jess Hoy - Operations Tech I

Date Mixed: 10-Jun-2022 **Balance:** 1128353505

Christie Mills - Operations Tech II - ARM QC

Date Passed: 15-Jun-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received on 08/16/22 by CG
S10595 to S10624

Catalog No. : 31086 **Lot No.:** A0186198

Description : B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : May 31, 2028 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Nitrobenzene-d5 **CAS #** 4165-60-0 (Lot PR-29940A) **Purity** 99%	5,019.7 µg/mL	+/- 29.1848 µg/mL +/- 226.0888 µg/mL +/- 250.8734 µg/mL	Gravimetric Unstressed Stressed
2	2-Fluorobiphenyl **CAS #** 321-60-8 (Lot 00021384) **Purity** 99%	5,011.8 µg/mL	+/- 29.1387 µg/mL +/- 225.7322 µg/mL +/- 250.4778 µg/mL	Gravimetric Unstressed Stressed
3	p-Terphenyl-d14 **CAS #** 1718-51-0 (Lot PR-30504) **Purity** 99%	5,015.0 µg/mL	+/- 29.1576 µg/mL +/- 225.8786 µg/mL +/- 250.6402 µg/mL	Gravimetric Unstressed Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

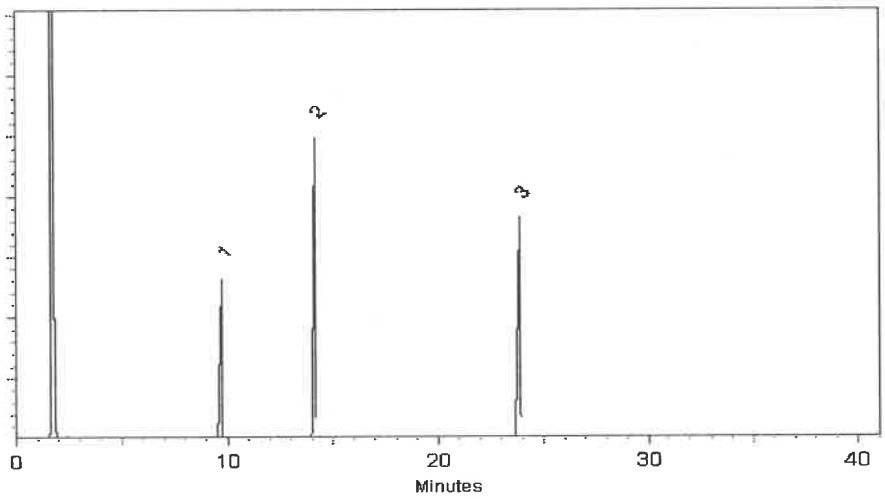
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jess Hoy - Operations Tech I

Date Mixed: 10-Jun-2022 **Balance:** 1128353505

Christie Mills - Operations Tech II - ARM QC

Date Passed: 15-Jun-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received on 08/16/22 by CG
S10595 to S10624

Catalog No. : 31086 **Lot No.:** A0186198

Description : B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : May 31, 2028 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Nitrobenzene-d5 **CAS #** 4165-60-0 (Lot PR-29940A) **Purity** 99%	5,019.7 µg/mL	+/- 29.1848 µg/mL +/- 226.0888 µg/mL +/- 250.8734 µg/mL	Gravimetric Unstressed Stressed
2	2-Fluorobiphenyl **CAS #** 321-60-8 (Lot 00021384) **Purity** 99%	5,011.8 µg/mL	+/- 29.1387 µg/mL +/- 225.7322 µg/mL +/- 250.4778 µg/mL	Gravimetric Unstressed Stressed
3	p-Terphenyl-d14 **CAS #** 1718-51-0 (Lot PR-30504) **Purity** 99%	5,015.0 µg/mL	+/- 29.1576 µg/mL +/- 225.8786 µg/mL +/- 250.6402 µg/mL	Gravimetric Unstressed Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

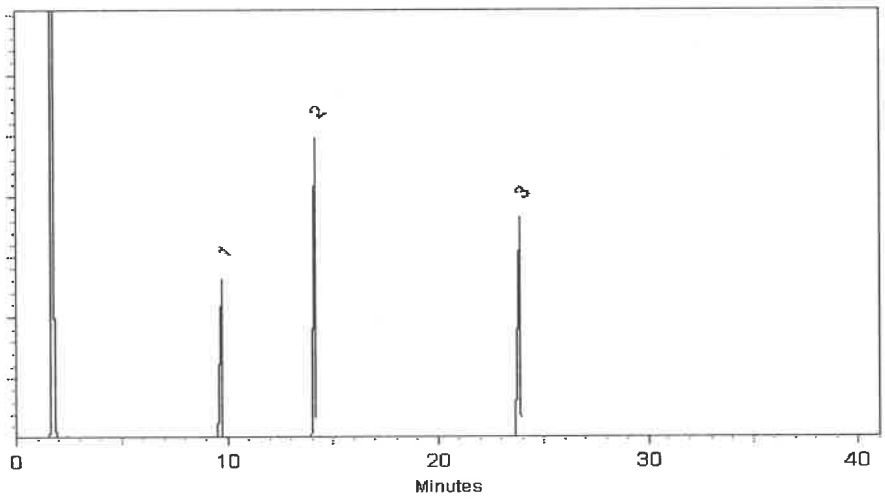
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jess Hoy - Operations Tech I

Date Mixed: 10-Jun-2022 **Balance:** 1128353505

Christie Mills - Operations Tech II - ARM QC

Date Passed: 15-Jun-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received on 08/16/22 by CG
S10595 to S10624

Catalog No. : 31086 **Lot No.:** A0186198

Description : B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : May 31, 2028 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Nitrobenzene-d5 **CAS #** 4165-60-0 (Lot PR-29940A) **Purity** 99%	5,019.7 µg/mL	+/- 29.1848 µg/mL +/- 226.0888 µg/mL +/- 250.8734 µg/mL	Gravimetric Unstressed Stressed
2	2-Fluorobiphenyl **CAS #** 321-60-8 (Lot 00021384) **Purity** 99%	5,011.8 µg/mL	+/- 29.1387 µg/mL +/- 225.7322 µg/mL +/- 250.4778 µg/mL	Gravimetric Unstressed Stressed
3	p-Terphenyl-d14 **CAS #** 1718-51-0 (Lot PR-30504) **Purity** 99%	5,015.0 µg/mL	+/- 29.1576 µg/mL +/- 225.8786 µg/mL +/- 250.6402 µg/mL	Gravimetric Unstressed Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

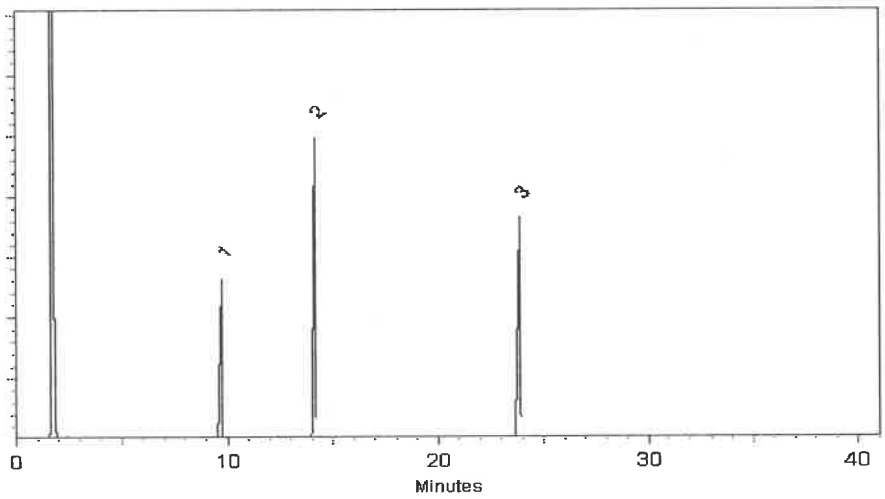
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jess Hoy - Operations Tech I

Date Mixed: 10-Jun-2022 **Balance:** 1128353505

Christie Mills - Operations Tech II - ARM QC

Date Passed: 15-Jun-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received on 08/16/22 by CG
S10595 to S10624

Catalog No. : 31086 **Lot No.:** A0186198

Description : B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : May 31, 2028 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Nitrobenzene-d5 **CAS #** 4165-60-0 (Lot PR-29940A) **Purity** 99%	5,019.7 µg/mL	+/- 29.1848 µg/mL +/- 226.0888 µg/mL +/- 250.8734 µg/mL	Gravimetric Unstressed Stressed
2	2-Fluorobiphenyl **CAS #** 321-60-8 (Lot 00021384) **Purity** 99%	5,011.8 µg/mL	+/- 29.1387 µg/mL +/- 225.7322 µg/mL +/- 250.4778 µg/mL	Gravimetric Unstressed Stressed
3	p-Terphenyl-d14 **CAS #** 1718-51-0 (Lot PR-30504) **Purity** 99%	5,015.0 µg/mL	+/- 29.1576 µg/mL +/- 225.8786 µg/mL +/- 250.6402 µg/mL	Gravimetric Unstressed Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

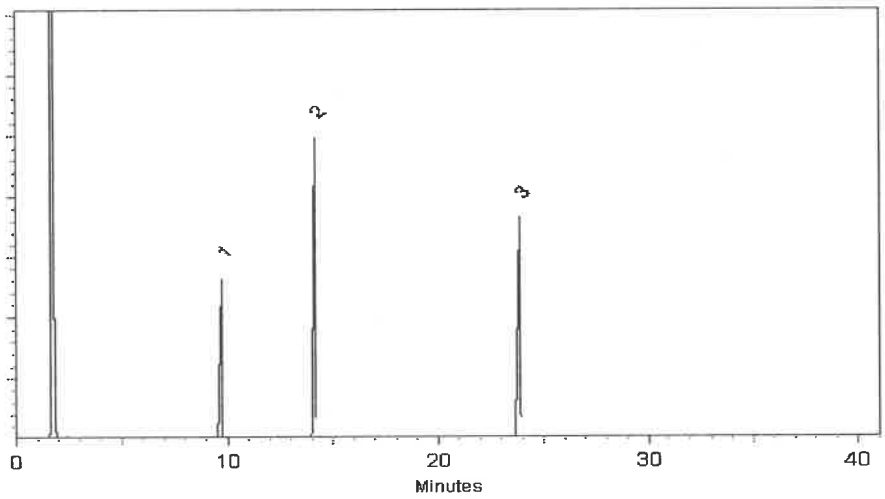
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jess Hoy - Operations Tech I

Date Mixed: 10-Jun-2022 **Balance:** 1128353505

Christie Mills - Operations Tech II - ARM QC

Date Passed: 15-Jun-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received on 08/16/22 by CG
S10595 to S10624

Catalog No. : 31086 **Lot No.:** A0186198

Description : B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : May 31, 2028 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Nitrobenzene-d5 **CAS #** 4165-60-0 (Lot PR-29940A) **Purity** 99%	5,019.7 µg/mL	+/- 29.1848 µg/mL +/- 226.0888 µg/mL +/- 250.8734 µg/mL	Gravimetric Unstressed Stressed
2	2-Fluorobiphenyl **CAS #** 321-60-8 (Lot 00021384) **Purity** 99%	5,011.8 µg/mL	+/- 29.1387 µg/mL +/- 225.7322 µg/mL +/- 250.4778 µg/mL	Gravimetric Unstressed Stressed
3	p-Terphenyl-d14 **CAS #** 1718-51-0 (Lot PR-30504) **Purity** 99%	5,015.0 µg/mL	+/- 29.1576 µg/mL +/- 225.8786 µg/mL +/- 250.6402 µg/mL	Gravimetric Unstressed Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

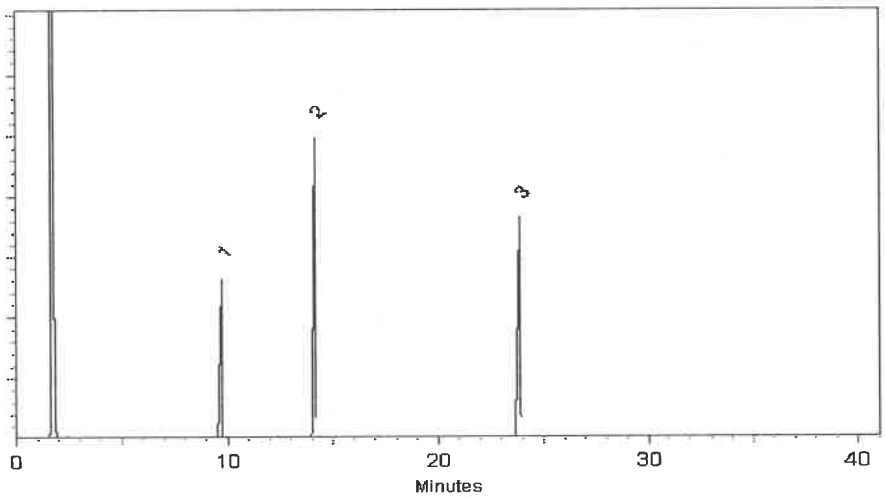
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jess Hoy - Operations Tech I

Date Mixed: 10-Jun-2022 **Balance:** 1128353505

Christie Mills - Operations Tech II - ARM QC

Date Passed: 15-Jun-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received on 08/16/22 by CG
S10595 to S10624

Catalog No. : 31086 **Lot No.:** A0186198

Description : B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : May 31, 2028 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Nitrobenzene-d5 **CAS #** 4165-60-0 (Lot PR-29940A) **Purity** 99%	5,019.7 µg/mL	+/- 29.1848 µg/mL +/- 226.0888 µg/mL +/- 250.8734 µg/mL	Gravimetric Unstressed Stressed
2	2-Fluorobiphenyl **CAS #** 321-60-8 (Lot 00021384) **Purity** 99%	5,011.8 µg/mL	+/- 29.1387 µg/mL +/- 225.7322 µg/mL +/- 250.4778 µg/mL	Gravimetric Unstressed Stressed
3	p-Terphenyl-d14 **CAS #** 1718-51-0 (Lot PR-30504) **Purity** 99%	5,015.0 µg/mL	+/- 29.1576 µg/mL +/- 225.8786 µg/mL +/- 250.6402 µg/mL	Gravimetric Unstressed Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

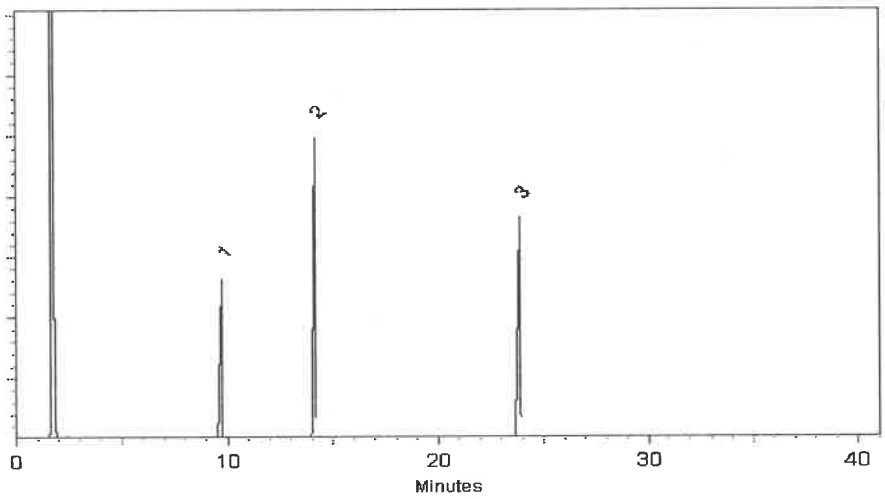
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jess Hoy - Operations Tech I

Date Mixed: 10-Jun-2022 **Balance:** 1128353505

Christie Mills - Operations Tech II - ARM QC

Date Passed: 15-Jun-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received on 08/16/22 by CG
S10595 to S10624

Catalog No. : 31086 **Lot No.:** A0186198

Description : B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : May 31, 2028 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Nitrobenzene-d5 **CAS #** 4165-60-0 (Lot PR-29940A) **Purity** 99%	5,019.7 µg/mL	+/- 29.1848 µg/mL +/- 226.0888 µg/mL +/- 250.8734 µg/mL	Gravimetric Unstressed Stressed
2	2-Fluorobiphenyl **CAS #** 321-60-8 (Lot 00021384) **Purity** 99%	5,011.8 µg/mL	+/- 29.1387 µg/mL +/- 225.7322 µg/mL +/- 250.4778 µg/mL	Gravimetric Unstressed Stressed
3	p-Terphenyl-d14 **CAS #** 1718-51-0 (Lot PR-30504) **Purity** 99%	5,015.0 µg/mL	+/- 29.1576 µg/mL +/- 225.8786 µg/mL +/- 250.6402 µg/mL	Gravimetric Unstressed Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

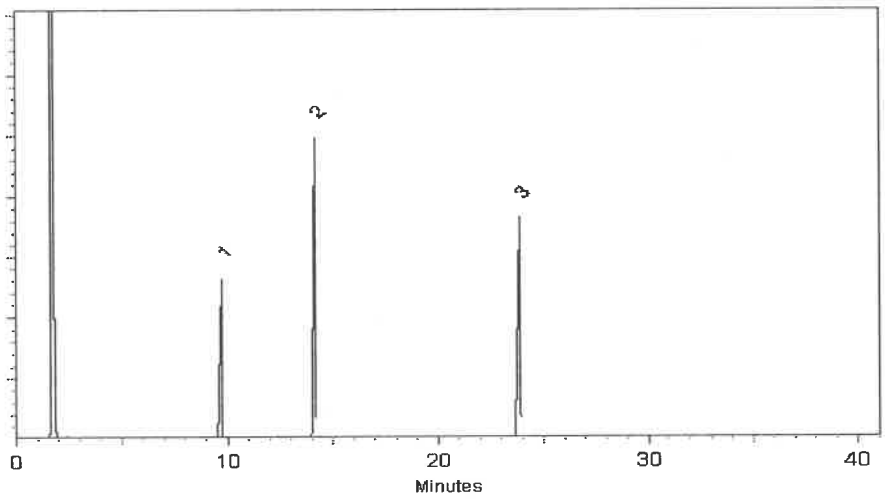
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jess Hoy - Operations Tech I

Date Mixed: 10-Jun-2022 **Balance:** 1128353505

Christie Mills - Operations Tech II - ARM QC

Date Passed: 15-Jun-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received on 08/16/22 by CG
S10595 to S10624

Catalog No. : 31086 **Lot No.:** A0186198

Description : B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : May 31, 2028 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Nitrobenzene-d5 **CAS #** 4165-60-0 (Lot PR-29940A) **Purity** 99%	5,019.7 µg/mL	+/- 29.1848 µg/mL +/- 226.0888 µg/mL +/- 250.8734 µg/mL	Gravimetric Unstressed Stressed
2	2-Fluorobiphenyl **CAS #** 321-60-8 (Lot 00021384) **Purity** 99%	5,011.8 µg/mL	+/- 29.1387 µg/mL +/- 225.7322 µg/mL +/- 250.4778 µg/mL	Gravimetric Unstressed Stressed
3	p-Terphenyl-d14 **CAS #** 1718-51-0 (Lot PR-30504) **Purity** 99%	5,015.0 µg/mL	+/- 29.1576 µg/mL +/- 225.8786 µg/mL +/- 250.6402 µg/mL	Gravimetric Unstressed Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

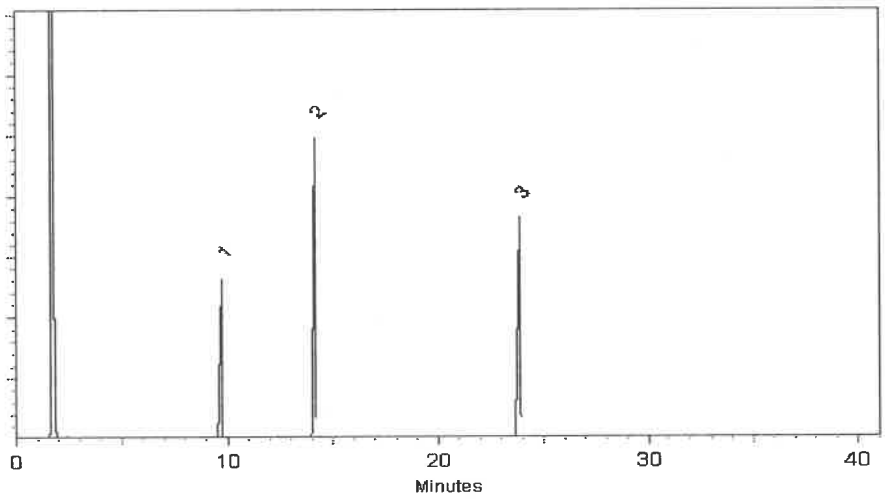
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jess Hoy - Operations Tech I

Date Mixed: 10-Jun-2022 **Balance:** 1128353505

Christie Mills - Operations Tech II - ARM QC

Date Passed: 15-Jun-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received by CG on 12/28/22 S10951 to S10980

Catalog No. : 31087 **Lot No.:** A0188108

Description : Acid Surrogate Mix (4/89 SOW)

Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : August 31, 2030 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	2-Fluorophenol **CAS #** 367-12-4 **Purity** 99% (Lot STBF3761V)	10,088.5 µg/mL	+/- 58.6554 µg/mL +/- 294.4162 µg/mL +/- 357.2628 µg/mL	Gravimetric Unstressed Stressed
2	Phenol-d6 **CAS #** 13127-88-3 **Purity** 99% (Lot PR-31262)	10,043.3 µg/mL	+/- 58.3923 µg/mL +/- 293.0957 µg/mL +/- 355.6603 µg/mL	Gravimetric Unstressed Stressed
3	2,4,6-Tribromophenol **CAS #** 118-79-6 **Purity** 99% (Lot MKCJ7664)	10,010.0 µg/mL	+/- 58.1990 µg/mL +/- 292.1253 µg/mL +/- 354.4829 µg/mL	Gravimetric Unstressed Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

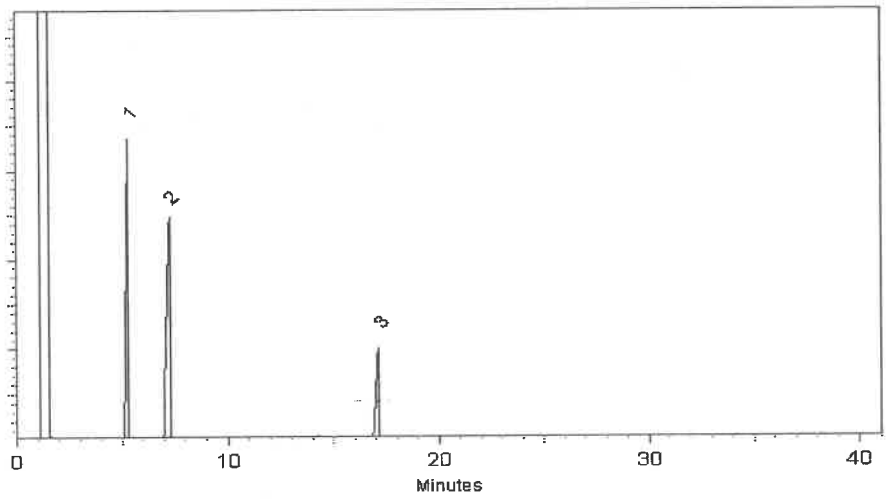
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Morgan Craighead - Mix Technician

Date Mixed: 02-Aug-2022 **Balance:** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 05-Aug-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received by CG on 12/28/22 S10951 to S10980

Catalog No. : 31087 **Lot No.:** A0188108

Description : Acid Surrogate Mix (4/89 SOW)

Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : August 31, 2030 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	2-Fluorophenol **CAS #** 367-12-4 **Purity** 99% (Lot STBF3761V)	10,088.5 µg/mL	+/- 58.6554 µg/mL +/- 294.4162 µg/mL +/- 357.2628 µg/mL	Gravimetric Unstressed Stressed
2	Phenol-d6 **CAS #** 13127-88-3 **Purity** 99% (Lot PR-31262)	10,043.3 µg/mL	+/- 58.3923 µg/mL +/- 293.0957 µg/mL +/- 355.6603 µg/mL	Gravimetric Unstressed Stressed
3	2,4,6-Tribromophenol **CAS #** 118-79-6 **Purity** 99% (Lot MKCJ7664)	10,010.0 µg/mL	+/- 58.1990 µg/mL +/- 292.1253 µg/mL +/- 354.4829 µg/mL	Gravimetric Unstressed Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

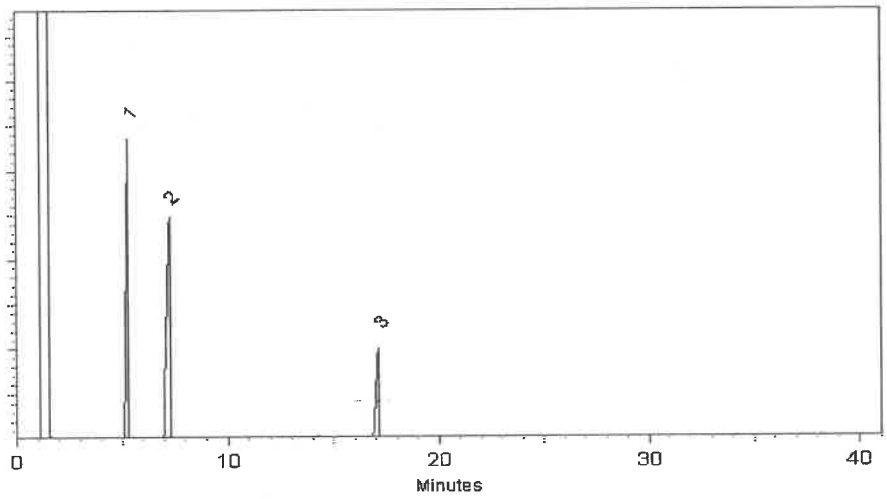
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Morgan Craighead - Mix Technician

Date Mixed: 02-Aug-2022 **Balance:** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 05-Aug-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received by CG on 12/28/22 S10951 to S10980

Catalog No. : 31087 **Lot No.:** A0188108

Description : Acid Surrogate Mix (4/89 SOW)

Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : August 31, 2030 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	2-Fluorophenol **CAS #** 367-12-4 **Purity** 99%	(Lot STBF3761V)	10,088.5 µg/mL	+/- 58.6554 µg/mL +/- 294.4162 µg/mL +/- 357.2628 µg/mL	Gravimetric Unstressed Stressed
2	Phenol-d6 **CAS #** 13127-88-3 **Purity** 99%	(Lot PR-31262)	10,043.3 µg/mL	+/- 58.3923 µg/mL +/- 293.0957 µg/mL +/- 355.6603 µg/mL	Gravimetric Unstressed Stressed
3	2,4,6-Tribromophenol **CAS #** 118-79-6 **Purity** 99%	(Lot MKCJ7664)	10,010.0 µg/mL	+/- 58.1990 µg/mL +/- 292.1253 µg/mL +/- 354.4829 µg/mL	Gravimetric Unstressed Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

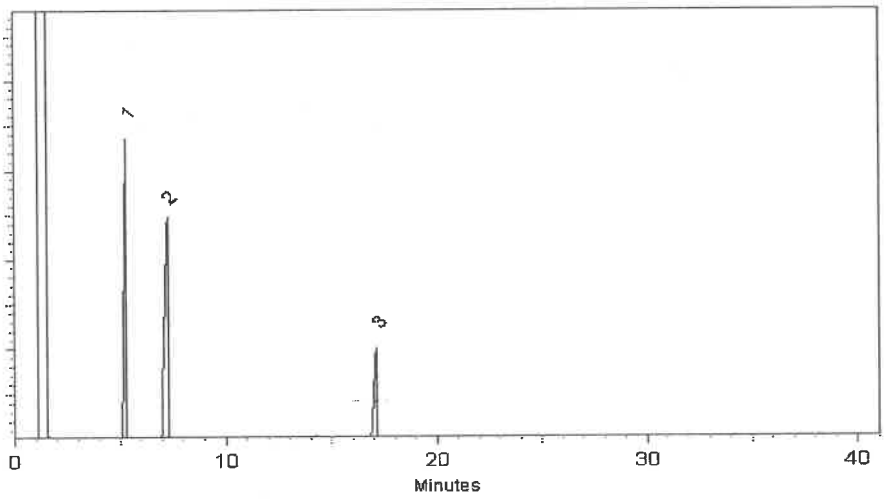
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Morgan Craighead - Mix Technician

Date Mixed: 02-Aug-2022 **Balance:** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 05-Aug-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received by CG on 12/28/22 S10951 to S10980

Catalog No. : 31087 **Lot No.:** A0188108

Description : Acid Surrogate Mix (4/89 SOW)

Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : August 31, 2030 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	2-Fluorophenol **CAS #** 367-12-4 **Purity** 99%	(Lot STBF3761V)	10,088.5 µg/mL	+/- 58.6554 µg/mL +/- 294.4162 µg/mL +/- 357.2628 µg/mL	Gravimetric Unstressed Stressed
2	Phenol-d6 **CAS #** 13127-88-3 **Purity** 99%	(Lot PR-31262)	10,043.3 µg/mL	+/- 58.3923 µg/mL +/- 293.0957 µg/mL +/- 355.6603 µg/mL	Gravimetric Unstressed Stressed
3	2,4,6-Tribromophenol **CAS #** 118-79-6 **Purity** 99%	(Lot MKCJ7664)	10,010.0 µg/mL	+/- 58.1990 µg/mL +/- 292.1253 µg/mL +/- 354.4829 µg/mL	Gravimetric Unstressed Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

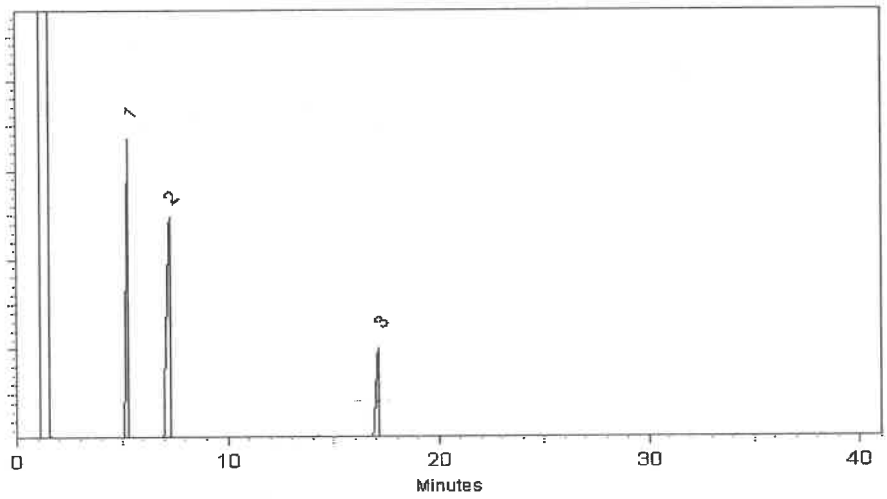
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Morgan Craighead - Mix Technician

Date Mixed: 02-Aug-2022 **Balance:** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 05-Aug-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received by CG on 12/28/22 S10951 to S10980

Catalog No. : 31087 **Lot No.:** A0188108

Description : Acid Surrogate Mix (4/89 SOW)

Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : August 31, 2030 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	2-Fluorophenol **CAS #** 367-12-4 **Purity** 99% (Lot STBF3761V)	10,088.5 µg/mL	+/- 58.6554 µg/mL +/- 294.4162 µg/mL +/- 357.2628 µg/mL	Gravimetric Unstressed Stressed
2	Phenol-d6 **CAS #** 13127-88-3 **Purity** 99% (Lot PR-31262)	10,043.3 µg/mL	+/- 58.3923 µg/mL +/- 293.0957 µg/mL +/- 355.6603 µg/mL	Gravimetric Unstressed Stressed
3	2,4,6-Tribromophenol **CAS #** 118-79-6 **Purity** 99% (Lot MKCJ7664)	10,010.0 µg/mL	+/- 58.1990 µg/mL +/- 292.1253 µg/mL +/- 354.4829 µg/mL	Gravimetric Unstressed Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

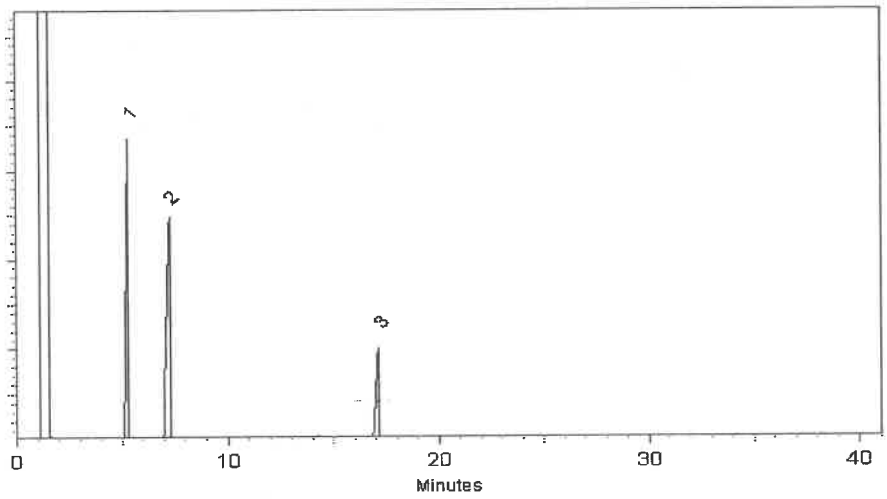
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Morgan Craighead - Mix Technician

Date Mixed: 02-Aug-2022 **Balance:** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 05-Aug-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received by CG on 12/28/22 S10951 to S10980

Catalog No. : 31087 **Lot No.:** A0188108

Description : Acid Surrogate Mix (4/89 SOW)

Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : August 31, 2030 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	2-Fluorophenol **CAS #** 367-12-4 **Purity** 99% (Lot STBF3761V)	10,088.5 µg/mL	+/- 58.6554 µg/mL +/- 294.4162 µg/mL +/- 357.2628 µg/mL	Gravimetric Unstressed Stressed
2	Phenol-d6 **CAS #** 13127-88-3 **Purity** 99% (Lot PR-31262)	10,043.3 µg/mL	+/- 58.3923 µg/mL +/- 293.0957 µg/mL +/- 355.6603 µg/mL	Gravimetric Unstressed Stressed
3	2,4,6-Tribromophenol **CAS #** 118-79-6 **Purity** 99% (Lot MKCJ7664)	10,010.0 µg/mL	+/- 58.1990 µg/mL +/- 292.1253 µg/mL +/- 354.4829 µg/mL	Gravimetric Unstressed Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

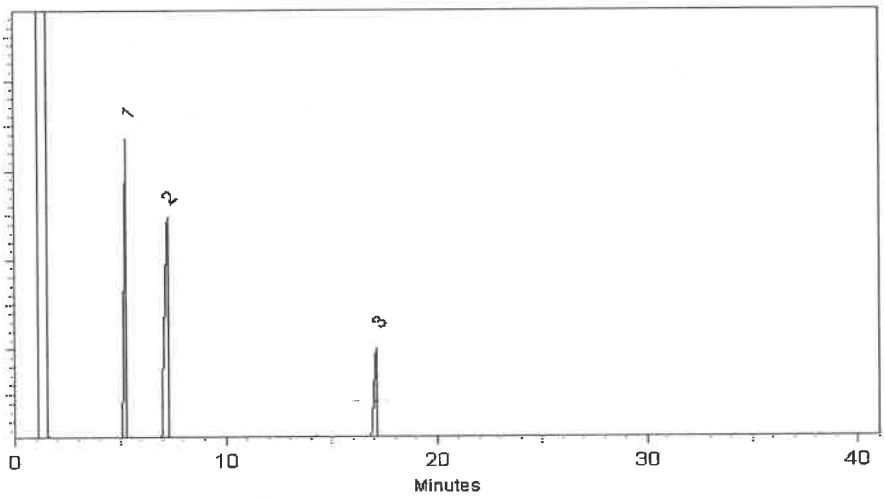
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Morgan Craighead - Mix Technician

Date Mixed: 02-Aug-2022 **Balance:** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 05-Aug-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received by CG on 12/28/22 S10951 to S10980

Catalog No. : 31087 **Lot No.:** A0188108

Description : Acid Surrogate Mix (4/89 SOW)

Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : August 31, 2030 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	2-Fluorophenol **CAS #** 367-12-4 **Purity** 99%	(Lot STBF3761V)	10,088.5 µg/mL	+/- 58.6554 µg/mL +/- 294.4162 µg/mL +/- 357.2628 µg/mL	Gravimetric Unstressed Stressed
2	Phenol-d6 **CAS #** 13127-88-3 **Purity** 99%	(Lot PR-31262)	10,043.3 µg/mL	+/- 58.3923 µg/mL +/- 293.0957 µg/mL +/- 355.6603 µg/mL	Gravimetric Unstressed Stressed
3	2,4,6-Tribromophenol **CAS #** 118-79-6 **Purity** 99%	(Lot MKCJ7664)	10,010.0 µg/mL	+/- 58.1990 µg/mL +/- 292.1253 µg/mL +/- 354.4829 µg/mL	Gravimetric Unstressed Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

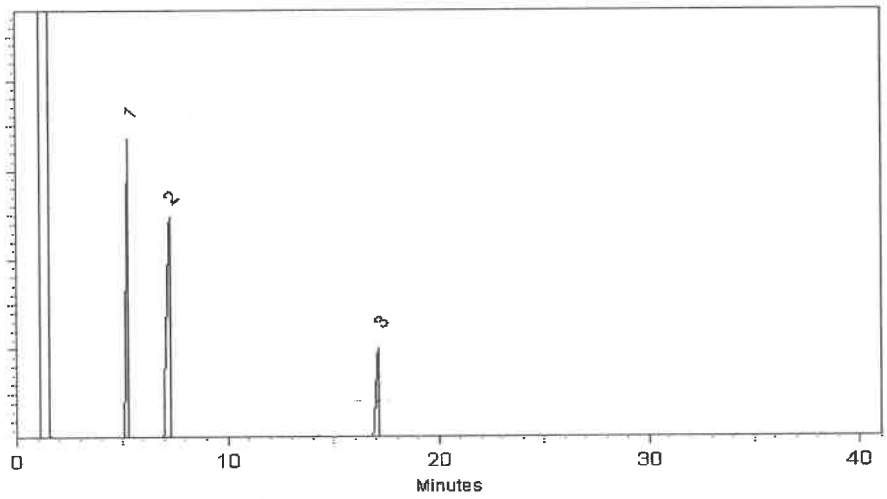
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Morgan Craighead - Mix Technician

Date Mixed: 02-Aug-2022 **Balance:** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 05-Aug-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received by CG on 12/28/22 S10951 to S10980

Catalog No. : 31087 **Lot No.:** A0188108

Description : Acid Surrogate Mix (4/89 SOW)

Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : August 31, 2030 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	2-Fluorophenol **CAS #** 367-12-4 **Purity** 99%	(Lot STBF3761V)	10,088.5 µg/mL	+/- 58.6554 µg/mL +/- 294.4162 µg/mL +/- 357.2628 µg/mL	Gravimetric Unstressed Stressed
2	Phenol-d6 **CAS #** 13127-88-3 **Purity** 99%	(Lot PR-31262)	10,043.3 µg/mL	+/- 58.3923 µg/mL +/- 293.0957 µg/mL +/- 355.6603 µg/mL	Gravimetric Unstressed Stressed
3	2,4,6-Tribromophenol **CAS #** 118-79-6 **Purity** 99%	(Lot MKCJ7664)	10,010.0 µg/mL	+/- 58.1990 µg/mL +/- 292.1253 µg/mL +/- 354.4829 µg/mL	Gravimetric Unstressed Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

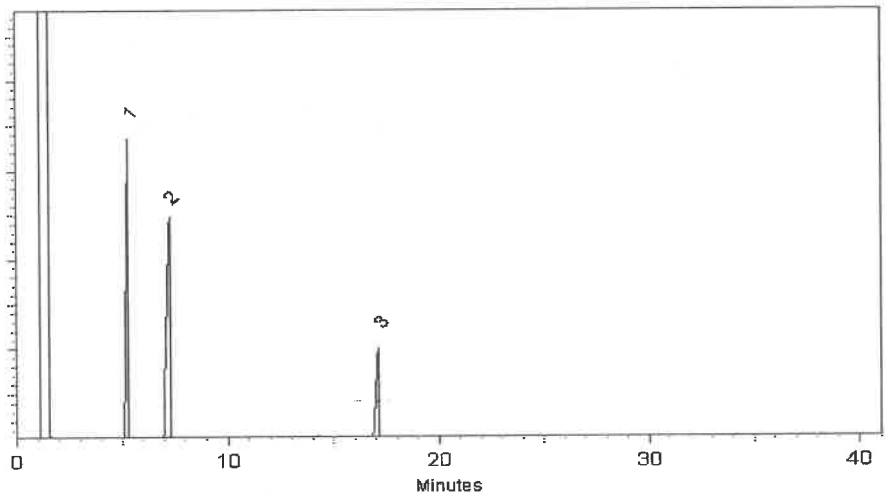
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Morgan Craighead - Mix Technician

Date Mixed: 02-Aug-2022 **Balance:** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 05-Aug-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received on 02/06/23 by CG
S11046 to S11070

Catalog No. : 31853 **Lot No.:** A0189157

Description : 1,4-dioxane

1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : August 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	1,4-Dioxane	2,008.0 µg/mL	+/- 11.7841	µg/mL	Gravimetric
	CAS # 123-91-1 (Lot SHBN3770)		+/- 43.0214	µg/mL	Unstressed
	Purity 99%		+/- 44.2703	µg/mL	Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

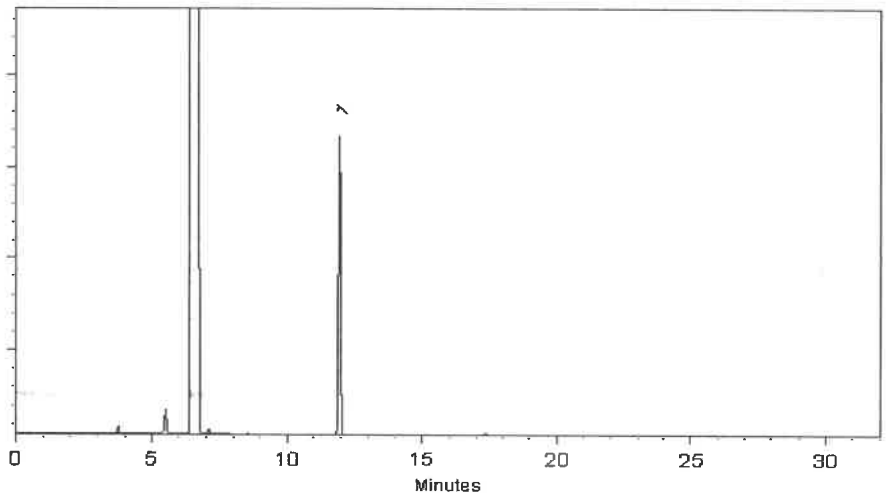
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Amanda Miller - Operations Tech III - ARM QC

Date Mixed: 31-Aug-2022 **Balance:** B442140311

Christie Mills - Operations Tech II - ARM QC

Date Passed: 06-Sep-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received on 04/07/23 by CG S11194 to S11223

Catalog No. : 31206 **Lot No.:** A0191993

Description : SV Internal Standard Mix 2mg/ml

SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : October 31, 2028 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,011.1 µg/mL	+/- 90.5826
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,018.1 µg/mL	+/- 90.8949
3	Acenaphthene-d10	15067-26-2	PR-31822	99%	1,999.7 µg/mL	+/- 90.0662
4	Phenanthrene-d10	1517-22-2	PR-32303	99%	2,017.6 µg/mL	+/- 90.8739
5	Chrysene-d12	1719-03-5	PR-32210	99%	2,011.7 µg/mL	+/- 90.6067
6	Perylene-d12	1520-96-3	PR-33205	99%	2,007.4 µg/mL	+/- 90.4145

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

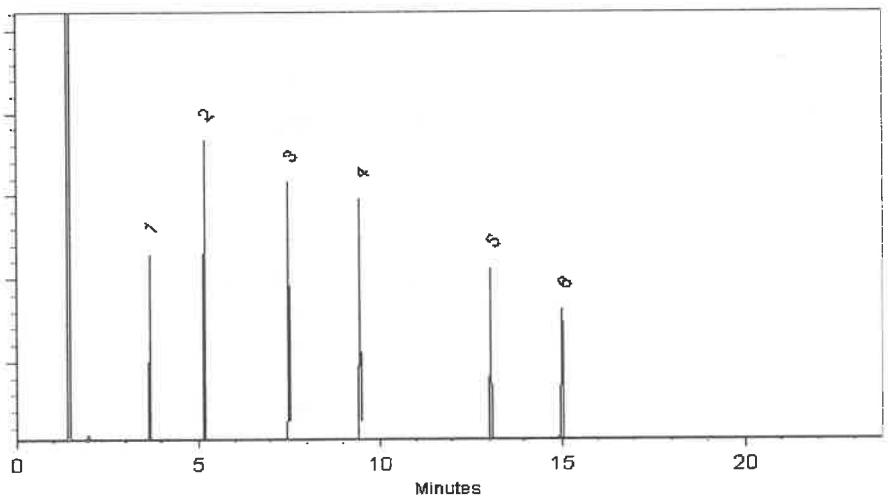
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Alicia Leathers - Operation Technician I

Date Mixed: 28-Nov-2022 **Balance Serial #** 1128353505

Marlina Cowan – Operations Tech II ARM QC

Date Passed: 30-Nov-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received on 04/07/23 by CG S11194 to S11223

Catalog No. : 31206 **Lot No.:** A0191993

Description : SV Internal Standard Mix 2mg/ml

SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : October 31, 2028 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,011.1 µg/mL	+/- 90.5826
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,018.1 µg/mL	+/- 90.8949
3	Acenaphthene-d10	15067-26-2	PR-31822	99%	1,999.7 µg/mL	+/- 90.0662
4	Phenanthrene-d10	1517-22-2	PR-32303	99%	2,017.6 µg/mL	+/- 90.8739
5	Chrysene-d12	1719-03-5	PR-32210	99%	2,011.7 µg/mL	+/- 90.6067
6	Perylene-d12	1520-96-3	PR-33205	99%	2,007.4 µg/mL	+/- 90.4145

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

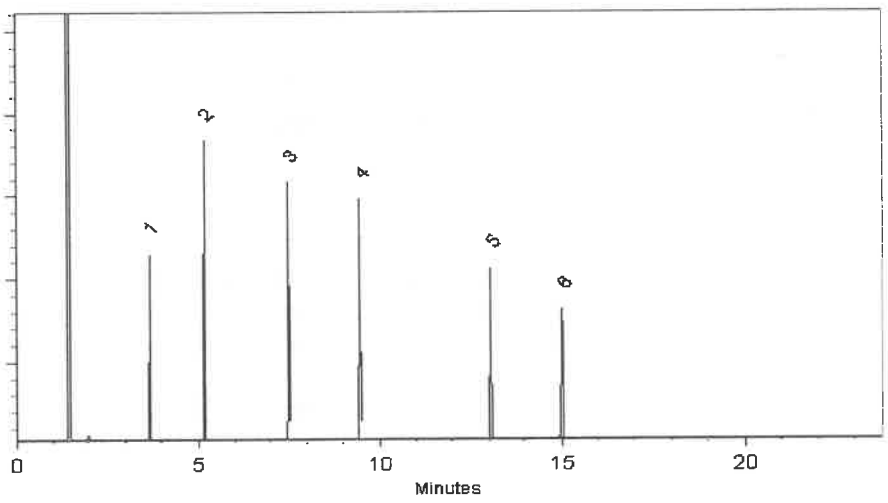
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Alicia Leathers - Operation Technician I

Date Mixed: 28-Nov-2022 **Balance Serial #** 1128353505

Marlina Cowan – Operations Tech II ARM QC

Date Passed: 30-Nov-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0194662

Description : Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 28, 2025 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)
1	3,3'-Dichlorobenzidine	91-94-1	S221201RSR	99%	1,010.0 µg/mL
2	Atrazine	1912-24-9	PI8FG	99%	1,009.0 µg/mL
3	Benzidine	92-87-5	220511RSR	99%	1,007.0 µg/mL
4	epsilon-Caprolactam	105-60-2	I16X016	99%	1,006.0 µg/mL

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Brittany Federinko - Operations Tech I

Date Mixed: 14-Feb-2023 **Balance:** 1128360905

Manufactured under Restek Registered Quality Certificate #FM

tified Reference Material Notes

es:

n date valid for unopened ampul stored in compliance with the recommended conditions.

ity, concentration, and expiration of the CRM are based on the unopened product being stored according to the ended condition found in the storage field.

d/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, LC/MS, RI, and/or melting point.

nds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A n factor is used to calculate the amount of compound necessary to achieve the desired concentration of the mpound in solution.

isomeric compounds is reported as the sum of the isomers.

ues are rounded to the nearest whole number.

rtainty Value Notes:

rtainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded ty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability ty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

erage factor of 2, which gives a level of confidence of approximately 95%.

ged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure nimum packaged amount can be sufficiently transferred.

Notes:

tion is based upon gravimetric preparation using either a balance whose calibration has been verified daily traceable weights, and/or dilutions with Class A glassware.

:

the unopened product, when stored in compliance with the recommended conditions, is guaranteed through ion displayed on the product label and certificate. Contact Restek for additional opened product stability ı, with the knowledge/understanding that open product stability is subject to the specific handling and ntal conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with lards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom m. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, des complete instructions.

ssolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0194662

Description : Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 28, 2025 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)
1	3,3'-Dichlorobenzidine	91-94-1	S221201RSR	99%	1,010.0 µg/mL
2	Atrazine	1912-24-9	PI8FG	99%	1,009.0 µg/mL
3	Benzidine	92-87-5	220511RSR	99%	1,007.0 µg/mL
4	epsilon-Caprolactam	105-60-2	I16X016	99%	1,006.0 µg/mL

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Brittany Federinko - Operations Tech I

Date Mixed: 14-Feb-2023 **Balance:** 1128360905

Manufactured under Restek Registered Quality Certificate #FM

tified Reference Material Notes

es:

n date valid for unopened ampul stored in compliance with the recommended conditions.

ity, concentration, and expiration of the CRM are based on the unopened product being stored according to the ended condition found in the storage field.

d/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, LC/MS, RI, and/or melting point.

nds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A n factor is used to calculate the amount of compound necessary to achieve the desired concentration of the mpound in solution.

isomeric compounds is reported as the sum of the isomers.

ues are rounded to the nearest whole number.

rtainty Value Notes:

rtainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded ty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability ty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

erage factor of 2, which gives a level of confidence of approximately 95%.

ged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure nimum packaged amount can be sufficiently transferred.

Notes:

tion is based upon gravimetric preparation using either a balance whose calibration has been verified daily traceable weights, and/or dilutions with Class A glassware.

:

the unopened product, when stored in compliance with the recommended conditions, is guaranteed through ion displayed on the product label and certificate. Contact Restek for additional opened product stability ı, with the knowledge/understanding that open product stability is subject to the specific handling and ntal conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with lards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom m. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, des complete instructions.

ssolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0194662

Description : Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 28, 2025 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)
1	3,3'-Dichlorobenzidine	91-94-1	S221201RSR	99%	1,010.0 µg/mL
2	Atrazine	1912-24-9	PI8FG	99%	1,009.0 µg/mL
3	Benzidine	92-87-5	220511RSR	99%	1,007.0 µg/mL
4	epsilon-Caprolactam	105-60-2	I16X016	99%	1,006.0 µg/mL

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Brittany Federinko - Operations Tech I

Date Mixed: 14-Feb-2023 **Balance:** 1128360905

Manufactured under Restek Registered Quality Certificate #FM 8

tified Reference Material Notes

es:

n date valid for unopened ampul stored in compliance with the recommended conditions.

ity, concentration, and expiration of the CRM are based on the unopened product being stored according to the ended condition found in the storage field.

d/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, LC/MS, RI, and/or melting point.

nds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A n factor is used to calculate the amount of compound necessary to achieve the desired concentration of the mpound in solution.

isomeric compounds is reported as the sum of the isomers.

ues are rounded to the nearest whole number.

rtainty Value Notes:

rtainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded ty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability ty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

erage factor of 2, which gives a level of confidence of approximately 95%.

ged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure nimum packaged amount can be sufficiently transferred.

Notes:

tion is based upon gravimetric preparation using either a balance whose calibration has been verified daily traceable weights, and/or dilutions with Class A glassware.

:

the unopened product, when stored in compliance with the recommended conditions, is guaranteed through ion displayed on the product label and certificate. Contact Restek for additional opened product stability ı, with the knowledge/understanding that open product stability is subject to the specific handling and ntal conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with lards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom m. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, des complete instructions.

ssolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0194662

Description : Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 28, 2025 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)
1	3,3'-Dichlorobenzidine	91-94-1	S221201RSR	99%	1,010.0 µg/mL
2	Atrazine	1912-24-9	PI8FG	99%	1,009.0 µg/mL
3	Benzidine	92-87-5	220511RSR	99%	1,007.0 µg/mL
4	epsilon-Caprolactam	105-60-2	I16X016	99%	1,006.0 µg/mL

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Brittany Federinko - Operations Tech I

Date Mixed: 14-Feb-2023 **Balance:** 1128360905

Manufactured under Restek Registered Quality Certificate #FM 8

tified Reference Material Notes

es:

n date valid for unopened ampul stored in compliance with the recommended conditions.

ity, concentration, and expiration of the CRM are based on the unopened product being stored according to the ended condition found in the storage field.

d/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, LC/MS, RI, and/or melting point.

nds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A n factor is used to calculate the amount of compound necessary to achieve the desired concentration of the mpound in solution.

isomeric compounds is reported as the sum of the isomers.

ues are rounded to the nearest whole number.

rtainty Value Notes:

rtainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded ty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability ty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

erage factor of 2, which gives a level of confidence of approximately 95%.

ged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure nimum packaged amount can be sufficiently transferred.

Notes:

tion is based upon gravimetric preparation using either a balance whose calibration has been verified daily traceable weights, and/or dilutions with Class A glassware.

:

the unopened product, when stored in compliance with the recommended conditions, is guaranteed through ion displayed on the product label and certificate. Contact Restek for additional opened product stability ı, with the knowledge/understanding that open product stability is subject to the specific handling and ntal conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with lards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom m. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, des complete instructions.

ssolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555870 **Lot No.:** A0194698

Description : Custom 2,4-Dinitrophenol Standard

Custom 2,4-Dinitrophenol Standard 25,000µg/mL, Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 28, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFI

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)
1	2,4-Dinitrophenol	51-28-5	DR221221RSR	99%	25,195.0 µg/mL

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Russ Bookhamer - Operations Technician I

Date Mixed: 15-Feb-2023 **Balance:** B442140311

Manufactured under Restek's Registered Quality Certificate #FM 8

tified Reference Material Notes

es:

n date valid for unopened ampul stored in compliance with the recommended conditions.

ıty, concentration, and expiration of the CRM are based on the unopened product being stored according to the ended condition found in the storage field.

d/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, LC/MS, RI, and/or melting point.

ıds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A n factor is used to calculate the amount of compound necessary to achieve the desired concentration of the ompound in solution.

isomeric compounds is reported as the sum of the isomers.

lues are rounded to the nearest whole number.

rtainty Value Notes:

ertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded ty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability ty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

erage factor of 2, which gives a level of confidence of approximately 95%.

ged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure inimum packaged amount can be sufficiently transferred.

Notes:

tion is based upon gravimetric preparation using either a balance whose calibration has been verified daily T traceable weights, and/or dilutions with Class A glassware.

:

the unopened product, when stored in compliance with the recommended conditions, is guaranteed through ion displayed on the product label and certificate. Contact Restek for additional opened product stability ı, with the knowledge/understanding that open product stability is subject to the specific handling and ntal conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with dards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom m. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, ıdes complete instructions.

ssolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received on 03/06/23 by CG

S11164 to S11193

Catalog No. : 555224 **Lot No.:** A0194799

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 28, 2025 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCS1444	99%	1,001.0 µg/mL	+/- 29.424320
2	Acetophenone	98-86-2	STBH8205	99%	1,009.0 µg/mL	+/- 29.659479
3	Benzaldehyde	100-52-7	RD230209RSRA	99%	1,002.0 µg/mL	+/- 29.453715
4	Benzoic acid	65-85-0	MKCL7479	99%	1,005.0 µg/mL	+/- 29.541899
5	Biphenyl	92-52-4	MKCL6515	99%	1,006.0 µg/mL	+/- 29.571294

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Russ Bookhamer - Operations Technician I

Date Mixed: 17-Feb-2023 **Balance:** B442140311

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received on 03/06/23 by CG

S11164 to S11193

Catalog No. : 555224 **Lot No.:** A0194799

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 28, 2025 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCS1444	99%	1,001.0 µg/mL	+/- 29.424320
2	Acetophenone	98-86-2	STBH8205	99%	1,009.0 µg/mL	+/- 29.659479
3	Benzaldehyde	100-52-7	RD230209RSRA	99%	1,002.0 µg/mL	+/- 29.453715
4	Benzoic acid	65-85-0	MKCL7479	99%	1,005.0 µg/mL	+/- 29.541899
5	Biphenyl	92-52-4	MKCL6515	99%	1,006.0 µg/mL	+/- 29.571294

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Russ Bookhamer - Operations Technician I

Date Mixed: 17-Feb-2023 **Balance:** B442140311

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received on 03/06/23 by CG

S11164 to S11193

Catalog No. : 555224 **Lot No.:** A0194799

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 28, 2025 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCS1444	99%	1,001.0 µg/mL	+/- 29.424320
2	Acetophenone	98-86-2	STBH8205	99%	1,009.0 µg/mL	+/- 29.659479
3	Benzaldehyde	100-52-7	RD230209RSRA	99%	1,002.0 µg/mL	+/- 29.453715
4	Benzoic acid	65-85-0	MKCL7479	99%	1,005.0 µg/mL	+/- 29.541899
5	Biphenyl	92-52-4	MKCL6515	99%	1,006.0 µg/mL	+/- 29.571294

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Russ Bookhamer - Operations Technician I

Date Mixed: 17-Feb-2023 **Balance:** B442140311

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received on 03/06/23 by CG

S11164 to S11193

Catalog No. : 555224 **Lot No.:** A0194799

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 28, 2025 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCS1444	99%	1,001.0 µg/mL	+/- 29.424320
2	Acetophenone	98-86-2	STBH8205	99%	1,009.0 µg/mL	+/- 29.659479
3	Benzaldehyde	100-52-7	RD230209RSRA	99%	1,002.0 µg/mL	+/- 29.453715
4	Benzoic acid	65-85-0	MKCL7479	99%	1,005.0 µg/mL	+/- 29.541899
5	Biphenyl	92-52-4	MKCL6515	99%	1,006.0 µg/mL	+/- 29.571294

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Russ Bookhamer - Operations Technician I

Date Mixed: 17-Feb-2023 **Balance:** B442140311

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received on 03/06/23 by CG

S11164 to S11193

Catalog No. : 555224 **Lot No.:** A0194799

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 28, 2025 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCS1444	99%	1,001.0 µg/mL	+/- 29.424320
2	Acetophenone	98-86-2	STBH8205	99%	1,009.0 µg/mL	+/- 29.659479
3	Benzaldehyde	100-52-7	RD230209RSRA	99%	1,002.0 µg/mL	+/- 29.453715
4	Benzoic acid	65-85-0	MKCL7479	99%	1,005.0 µg/mL	+/- 29.541899
5	Biphenyl	92-52-4	MKCL6515	99%	1,006.0 µg/mL	+/- 29.571294

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Russ Bookhamer - Operations Technician I

Date Mixed: 17-Feb-2023 **Balance:** B442140311

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Sand
Purified
Washed and Ignited

avantor™ | J.T.Baker®

Material No.: 3382-05
Batch No.: 0000243821
Manufactured Date: 2018/04/09
Retest Date: 2025/04/07
Revision No: 1

Certificate of Analysis

Test	Specification	Result
Substances Soluble in HCl	<= 0.16 %	0.01

For Laboratory, Research or Manufacturing Use
Meets Reagent Specifications for testing USP/NF monographs

Country of Origin: US
Packaging Site: Paris Mfg Ctr & DC

E 2865

James T Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

PHARMCO
by Greenfield Global

CERTIFICATE OF ANALYSIS

Product Name	Sodium Hydroxide
Grade	Reagent ACS Grade
Catalog #	289000ACS
Item #	101007
Batch #	220601-B017657
Date of Manufacture:	04/06/2022
Recommended Retest Date:	04/05/2025
Customer PO #	6051379
Packaging Type	Drum Fiber 50 Kg

TEST	MONO-GRAPH	SPECIFICATION	RESULT	UNITS
Assay	ACS	NLT 97.0%	98.7	%
Calcium (Ca)	ACS	0.005%, max	LT 0.005%	N/A
Chloride (Cl)	ACS	0.005% max.	LT 0.005%	N/A
Heavy Metals (as Ag)	ACS	0.002% max	LT 0.002%	N/A
Iron (Fe)	ACS	0.001% max.	LT 0.001%	N/A
Magnesium (Mg)	ACS	0.002% max.	LT 0.002%	N/A
Mercury (Hg)	ACS	0.1 ppm max.	LT 0.1 ppm	N/A
Nickel (Ni)	ACS	0.001%, max	LT 0.001%	N/A
Nitrogen Compounds (as N)	ACS	0.001% max.	LT 0.001%	N/A
Phosphate (PO4)	ACS	0.001% max.	LT 0.001%	N/A
Potassium (K)	ACS	0.02% max.	LT 0.02%	N/A
Sodium Carbonate (Na2CO3)	ACS	1.0% max.	0.6	%
Sulfate (SO4)	ACS	0.003% max.	LT 0.003%	N/A

Certification and Compliance Statements

This product is not derived, nor does it come in contact with, any materials derived from bovine or other animal sources.

E3382

www.pharmco.com | www.greenfield.com

Form: CofA-Standard, Rev 1.6, 04/13/22, RAD

Rec'd. by RP on 08/03/22

PRODUCTOS QUIMICOS MONTERREY, S.A. DE C.V.

ALLAN CHEMICAL CORPORATION
235 MARGARET KING AVENUE
RINGWOOD, NEW JERSEY, 07456
(973) 962-6016 • INFO@ALLANCHEM.COM
WWW.ALLANCHEM.COM

MIRADOR 201, COL. MIRADOR
MONTERREY, N.L. MÉXICO
CP 64070
TEL +52 81 13 52 57 57
www.pqm.com.mx

CERTIFICATE OF ANALYSIS

PRODUCT :	**SODIUM SULFATE CRYSTALS ANHYDROUS**		
QUALITY :	**ACS (CODE RMB3375)**	**FORMULA :**	**Na_2SO_4**
SPECIFICATION NUMBER :	**6399**	**RELEASE DATE:**	**OCT/28/2021**
LOT NUMBER :	**139404**		

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na_2SO_4)	Min. 99.0%	99.8 %
pH of a 5% solution at 25ºC	5.2 - 9.2	6.0
Insoluble matter	Max. 0.01%	0.005 %
Loss on ignition	Max. 0.5%	0.1 %
Chloride (Cl)	Max. 0.001%	<0.001 %
Nitrogen compounds (as N)	Max. 5 ppm	<5 ppm
Phosphate (PO_4)	Max. 0.001%	<0.001 %
Heavy metals (as Pb)	Max. 5 ppm	<5 ppm
Iron (Fe)	Max. 0.001%	<0.001 %
Calcium (Ca)	Max. 0.01%	0.002 %
Magnesium (Mg)	Max. 0.005%	0.001 %
Potassium (K)	Max. 0.008%	0.002 %
Extraction-concentration suitability	Passes test	Passes test
Appearance	Passes test	Passes test
Identification	Passes test	Passes test
Solubility and foreing matter	Passes test	Passes test
Retained on US Standard No. 10 sieve	Max. 1%	0.2 %
Retained on US Standard No. 60 sieve	Min. 94%	97.6 %
Through US Standard No. 60 sieve	Max. 5%	2.1 %
Through US Standard No. 100 sieve	Max. 10%	0.2 %

COMMENTS

QC: PhC Irma Belmares

If you need further details, please call our factory or contact our local distributor.

RE-02-01, Ed. 3

E 3412

Recd. by RP on 10/13/22

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor™ | J.T.Baker®

Material No.: 9266-A4
Batch No.: 22L0562002
Manufactured Date: 2022-10-20
Expiration Date: 2024-01-19
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	< 1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	2
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	≥ 99.8 %	100.0 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	< 0.1 ppm
Titrable Acid (µeq/g)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	5 ppm
Water (by KF, coulometric)	≤ 0.02 %	< 0.01 %

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3464

James T Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor™ | J.T.Baker®

Material No.: 9266-A4
Batch No.: 23C1362018
Manufactured Date: 2023-01-26
Expiration Date: 2024-04-26
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	< 1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	5
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	≥ 99.8 %	100.0 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.9 ppm
Titrable Acid (µeq/g)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	< 5 ppm
Water (by KF, coulometric)	≤ 0.02 %	< 0.01 %

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

E3515

Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor™ | J.T.Baker®

Material No.: 9266-A4
Batch No.: 23E0962014
Manufactured Date: 2023-04-24
Expiration Date: 2024-07-23
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	2
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	6
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	≥ 99.8 %	100.0 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	< 0.1 ppm
Titrable Acid (µeq/g)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	5 ppm
Water (by KF, coulometric)	≤ 0.02 %	< 0.01 %

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

E3518

Ken Koehnlein
Sr. Manager, Quality Assurance

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor™ | J.T.Baker®

Material No.: 9254-03
Batch No.: 22E1562001
Manufactured Date: 2022-05-03
Expiration Date: 2025-05-02
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ($(CH_3)_2CO$) (by GC, corrected for water)	≥ 99.4 %	99.8 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	< 1.0 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titrable Acid (µeq/g)	≤ 0.3	0.1
Titrable Base (µeq/g)	≤ 0.6	< 0.1
Water (H_2O)	≤ 0.5 %	0.1 %
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	< 1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	1

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Recd. by RP on 6/13/23

E3519

James Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor™ | J.T.Baker®

Material No.: 9266-A4
Batch No.: 23E0962014
Manufactured Date: 2023-04-24
Expiration Date: 2024-07-23
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	2
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	6
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	≥ 99.8 %	100.0 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	< 0.1 ppm
Titrable Acid (µeq/g)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	5 ppm
Water (by KF, coulometric)	≤ 0.02 %	< 0.01 %

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

E3521

Ken Koehnlein
Sr. Manager, Quality Assurance

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor™ | J.T.Baker®

Material No.: 9254-03
Batch No.: 22L2862006
Manufactured Date: 2022-12-19
Expiration Date: 2025-12-18
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ($(CH_3)_2CO$) (by GC, corrected for water)	≥ 99.4 %	99.7 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titrable Acid (µeq/g)	≤ 0.3	0.1
Titrable Base (µeq/g)	≤ 0.6	< 0.1
Water (H_2O)	≤ 0.5 %	0.3 %
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	4

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Recd. by RP on 6/21/23

E3523

James T Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor™ | J.T.Baker®

Material No.: 9254-03
Batch No.: 22L2862006
Manufactured Date: 2022-12-19
Expiration Date: 2025-12-18
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ($(CH_3)_2CO$) (by GC, corrected for water)	≥ 99.4 %	99.7 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titrable Acid (µeq/g)	≤ 0.3	0.1
Titrable Base (µeq/g)	≤ 0.6	< 0.1
Water (H_2O)	≤ 0.5 %	0.3 %
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	4

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Recd. by RS on 6/29/23

E 3534

James T Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

PO: 230629-01 PRODUCT CODE: SHIP DATE: 7/12/2023

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor™ | J.T.Baker

Material No.: 9266-A4
Batch No.: 23F1262016
Manufactured Date: 2023-05-17
Expiration Date: 2024-08-15
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	< 1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	4
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	≥ 99.8 %	100.0 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	< 1.0 ppm
Titrable Acid (µeq/g)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	< 5 ppm
Water (by KF, coulometric)	≤ 0.02 %	< 0.01 %

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC
Manufacturer source batch: MG23E17953

E 3543

Ken Koehnlein
Sr. Manager, Quality Assurance

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

Sulfuric Acid
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis
Low Selenium

M≤21 - M521
MB

avantor™ | J.T.Baker®

Material No.: 9673-33
Batch No.: 22D0862014
Manufactured Date: 2022-02-23
Retest Date: 2027-02-22
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS - Assay (H_2SO_4)	95.0 - 98.0 %	96.5 %
Appearance	Passes Test	Passes Test
ACS - Color (APHA)	≤ 10	5
ACS - Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS - Substances Reducing Permanganate (as SO2)	≤ 2 ppm	< 2 ppm
Ammonium (NH_4)	≤ 1 ppm	< 1 ppm
Chloride (Cl)	≤ 0.1 ppm	< 0.1 ppm
Nitrate (NO_3)	≤ 0.2 ppm	< 0.1 ppm
Phosphate (PO_4)	≤ 0.5 ppm	< 0.1 ppm
Trace Impurities - Aluminum (Al)	≤ 30.0 ppb	1.7 ppb
Arsenic and Antimony (as As)	≤ 4.0 ppb	< 2.0 ppb
Trace Impurities - Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 2.0 ppb	< 0.3 ppb
Trace Impurities - Chromium (Cr)	≤ 6.0 ppb	< 0.4 ppb
Trace Impurities - Cobalt (Co)	≤ 0.5 ppb	< 0.3 ppb
Trace Impurities - Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities - Gold (Au)	≤ 10.0 ppb	< 0.2 ppb
Heavy Metals (as Pb)	≤ 500.0 ppb	< 100.0 ppb
Trace Impurities - Iron (Fe)	≤ 50.0 ppb	2.0 ppb
Trace Impurities - Lead (Pb)	≤ 0.5 ppb	< 0.5 ppb
Trace Impurities - Magnesium (Mg)	≤ 7.0 ppb	0.6 ppb
Trace Impurities - Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities - Mercury (Hg)	≤ 0.5 ppb	< 0.1 ppb
Trace Impurities - Nickel (Ni)	≤ 2.0 ppb	< 0.3 ppb
Trace Impurities - Potassium (K)	≤ 500.0 ppb	< 2.0 ppb
Trace Impurities - Selenium (Se)	≤ 50.0 ppb	12.1 ppb
Trace Impurities - Silicon (Si)	≤ 100.0 ppb	4.4 ppb
Trace Impurities - Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb

>>> Continued on page 2 >>>

Sulfuric Acid
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis
Low Selenium

avantor™ | J.T.Baker®

Material No.: 9673-33
Batch No.: 22D0862014

Test	Specification	Result
Trace Impurities - Sodium (Na)	≤ 500.0 ppb	6.2 ppb
Trace Impurities - Strontium (Sr)	≤ 5.0 ppb	< 0.2 ppb
Trace Impurities - Tin (Sn)	≤ 5.0 ppb	< 0.8 ppb
Trace Impurities - Zinc (Zn)	≤ 5.0 ppb	0.6 ppb

For Laboratory,Research,or Manufacturing Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

James T Ethier

Jamie Ethier
Vice President Global Quality

511409 }Y.P. 06/12/23

CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110094-02	503442	≤ -10 °C	Methylene Chloride	8/26/2024	CLP Base/Neutral Surrogate Solution, 5,000 mg/L, 1 ml

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,2-dichlorobenzene-d_4	2199-69-1	99.7	247.29.3P	5052 ± 122.61
2-fluorobiphenyl	321-60-8	99.7	8.7.1.1P	5005 ± 121.47
nitrobenzene-d_5	4165-60-0	100	7.9.2P	5040 ± 122.21
p-terphenyl-d_{14}	1718-51-0	99.6	9.12.9P	5027 ± 122

*Not a certified value

Certified By: Joanna Radu

Joanna Radu
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

CHEMTECH

SHIPPING DOCUMENTS

CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO. 03645
QUOTE NO.
COC Number 2040304

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: LaBella Associates
ADDRESS: 300 Pearl Street
CITY Buffalo STATE: NY ZIP: 14202
ATTENTION: Andy Benkleman
PHONE: FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: Mackenna Parcels
PROJECT NO.: LOCATION: Niagara Falls
PROJECT MANAGER: Andy Benkleman
e-mail: abenkleman@labellapc.com
PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: SAME PO#:
ADDRESS:
CITY STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): _____ DAYS*
EDD: _____ DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

- ☐ Level 1 (Results Only)
- ☐ Level 2 (Results + QC)
- ☐ Level 3 (Results + QC + Raw Data)
- ☐ Level 4 (QC + Full Raw Data)
- ☐ NJ Reduced ☐ US EPA CLP
- ☐ NYS ASP A ☒ NYS ASP B
- ☐ Other _____
- ☐ EDD FORMAT _____

ANALYSIS

1 VOCs (TCL + 5 TICs)
2 SVOCs (TCL + 10 TICs)
3 PCBs (TCL)
4 Metals + Hg (RCRA)
5
6
7
8
9

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
1.	SB-02 (3-5')	Soil	C		7/12/23	1230	2	X	X	X	X						
2.	SB-04 (1-5')	Soil	C		7/12/23	1315	6	X	X	X	X						MS/MSD
3.	SB-07 (1-3')	Soil	C		7/13/23	1030	2	X	X	X	X						
4.	SB-08 (0.5-2.0')	Soil	C		7/13/23	1100	2	X	X	X	X						
5.	SB-09 (2.0-4.0')	Soil	C		7/13/23	1130	2	X	X	X	X						
6.	SB-10 (0.5-2.0')	Soil	C		7/13/23	1200	2	X	X	X	X						
7.	Dupe DUP	Soil	C		7/12/23	—	2	X	X	X	X						
8.	Rinsate Blank	H_2O		G	7/12/23	1215	4	X	X	X	X						
9.																	
10.																	

PRESERVATIVES: ← Specify Preservatives
A-HCl D-NaOH
B-HN03 E-ICE
C-H2SO4 F-OTHER

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1.	7/12/23	1. Sample Fridge/Freezer
2.	7/13/23	2. FEDEX
3. FedEx	7-13-23 0912	3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 24.3 °C
Comments: SB-02, SB-04 and DUP frozen on 7/12/23 @ 1600
* ICE Melted

Page ____ of ____
CLIENT: ☐ Hand Delivered ☐ Other _____
CHEMTECH: ☐ Picked Up ☐ Field Sampling
Shipment Complete ☐ YES ☐ NO

Copyright © 2023
WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

From: Samantha Beazley <Samantha@chemtech.net>
Sent: Monday, July 17, 2023 11:40 AM
To: 'abenkleman@labellapc.com'
Subject: RE: Login Summary Details For Project Mackenna Parcels-O3645.

Good Morning,

Note that there was no sample volume received in the terracore kit for sample “SB-09-(2.0-4.0)”. The lab will not be able to analyze this sample for VOC.

Respectfully,

Samantha Beazley
Project Manager

CHEMTECH

284 Sheffield St. | Mountainside, NJ 07092
Direct: (908) 728-3148
samantha@chemtech.net | www.chemtech.net

Your Opinion Matters! Please Give Us Your Feedback

From: CHEMTECH-Data@chemtech.net <CHEMTECH-Data@chemtech.net>
Sent: Monday, July 17, 2023 10:12 AM
To: abenkleman@labellapc.com
Cc: Samantha@chemtech.net
Subject: Login Summary Details For Project Mackenna Parcels-O3645.

To Andrew T. Benkleman;

Please see the attached Login Summary for the following project, or download the file using your login credentials from the link below.

Order ID	: O3645
Project ID	: Mackenna Parcels
Download File	: https://chemtech.net/secureLogin.aspx
Order Date	: 7/17/2023 9:31:59 AM
CHEMTECH’s Project Manager	: Samantha Beazley , Samantha@chemtech.net , Ext :
CHEMTECH’s Sales Executive	: Jordan Hedvat , jordan@chemtech.net , 908-728-3144 Ext :

Thank you for the opportunity to provide you with our services. For any questions please feel free to contact your project manager.

Click Here for our short online customer Survey http://chemtech.net/ClientSurvey.aspx .

Thank you,

CHEMTECH

Notice: The information transmitted in this e-mail message and in any attachments is intended Solely for the attention of the named addressee(s) and may contain confidential and/or privileged material. Any review, retransmission, dissemination or other use of, or taking of any action in reliance upon, this information by persons or entities other than the intended recipient is strictly prohibited and may be unlawful. If you have received this transmission in error, please notify us immediately by return e-mail, and permanently delete this transmission, including attachments if any, from any computer.

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0649
DOD ELAP (L-A-B)	L2219
Maine	2022022
Maryland	296
New Hampshire	255422
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	P330-21-00137
Texas	T104704488-23-16

CHEMTECH

LOGIN REPORT/SAMPLE TRANSFER

Order ID : O3645 LABE01
Client Name : LaBella Associates P.C.
Client Contact : Andrew T. Benkleman
Invoice Name : LaBella Associates P.C.
Invoice Contact : Andrew T. Benkleman

Order Date : 7/17/2023 9:31:59 AM
Project Name : Mackenna Parcels
Receive DateTime : 7/17/2023 9:12:00 AM
Purchase Order :

Project Mgr :
Report Type : ~~Level 2~~ NYS ASP B
EDD Type : Excel NY SB 7/20/23
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD		FAX DATE	DUE DATES
O3645-01	SB-02-(3-5)	Solid	07/12/2023	12:30	VOCMS Group1		8260D	10 Bus. Days		
O3645-02	SB-04-(1-5)	Solid	07/12/2023	13:15	VOCMS Group1		8260D	10 Bus. Days		
O3645-03	SB-07-(1-3)	Solid	07/13/2023	10:30	VOCMS Group1		8260D	10 Bus. Days		
O3645-04	SB-08 ~~(10.5-2.0)~~ (0.5-2.0)	Solid	07/13/2023	11:00	VOCMS Group1		8260D	10 Bus. Days		
~~O3645-05~~	~~SB-09-(2.0-4.0)~~	~~Solid~~	~~07/13/2023~~	~~11:30~~	~~VOCMS Group1~~		~~8260D~~	~~10 Bus. Days~~		
O3645-06	SB-10-(0.5-2.0)	Solid	07/13/2023	12:00	VOCMS Group1		8260D	10 Bus. Days		
O3645-07	DUP	Solid	07/12/2023	00:00	VOCMS Group1		8260D	10 Bus. Days		
O3645-08	RINSATE-BLANK	Water	07/12/2023	12:15	VOCMS Group1		8260-Low	10 Bus. Days		
O3645-09	O3645-02MS	Solid	07/12/2023	13:15						

CHEMTECH

LOGIN REPORT/SAMPLE TRANSFER

Order ID : O3645 LABE01
Client Name : LaBella Associates P.C.
Client Contact : Andrew T. Benkleman
Invoice Name : LaBella Associates P.C.
Invoice Contact : Andrew T. Benkleman

Order Date : 7/17/2023 9:31:59 AM
Project Name : Mackenna Parcels
Receive DateTime : 7/17/2023 9:12:00 AM
Purchase Order :

Project Mgr :
Report Type : ~~Level 2~~ NYS ASP B
SB 7/20/23
EDD Type : Excel NY
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
					VOCMS Group1		8260D	10 Bus. Days	
O3645-10	O3645-02MSD	Solid	07/12/2023	13:15					
					VOCMS Group1		8260D	10 Bus. Days	

Relinguished By :
Date / Time : 7/17/23 0950

Received By : Sam
Date / Time : 7/17/23 9.50
Storage Area : VOA Refridgerator Room

Reg #6
Ext
Reg #4